

**RESOLUTION OF THE
RESOURCES AND DEVELOPMENT COMMITTEE
23rd Navajo Nation Council --- Third Year, 2017**

AN ACTION

RELATING TO RESOURCES AND DEVELOPMENT; APPROVING A RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT TO U.S. BUREAU OF RECLAMATION TO CONSTRUCT, OPERATE AND MAINTAIN THE "9B, 10, AND 11 - NAVAJO GALLUP WATER SUPPLY PROJECT" REACHES PORTION LOCATED IN COYOTE CANYON, MEXICAN SPRINGS, NASCHITTI, TOHATCHI AND TWIN LAKES CHAPTER VICINITIES, MCKINLEY COUNTY, NEW MEXICO

BE IT ENACTED:

SECTION ONE. AUTHORITY

Pursuant to 2 N.N.C. Section §501 (B)(2), the Resources and Development Committee of the Navajo Nation Council has the authority to give final approval of all land withdrawals, non-mineral leases, permits, licenses, rights-of-way, surface easements and bonding requirements on Navajo Nation land and unrestricted (fee) land. This authority shall include subleases, modifications, assignments, leasehold encumbrances, transfers, renewals, and terminations.

SECTION TWO. FINDINGS

A. Plata Highway, Farmington, New Mexico 87401 has submitted a right-of-way (ROW) application and temporary construction easement (TCE) to construct, operate and maintain the "Reaches 9B, 10 and 11-Navajo Gallup Water Supply Project" located on, over and across Navajo Nation Trust Lands in the Coyote Canyon, Mexican Springs, Naschitti, Tohatchi and Twin Lakes Chapter vicinities, McKinley County, New Mexico attached hereto and incorporated herein as Exhibit "A."

B. The proposed permanent right-of-way and temporary construction easement consists of Navajo Nation Trust Lands located in McKinley County, New Mexico and the location is more particularly described on the survey map attached hereto and incorporated herein as Exhibit "B."

C. The General Land Development Department has obtained the consents of the affected land users, attached hereto as Exhibit "C."

D. The Bureau of Reclamation requests a waiver of the consideration because the project will provide a public benefit to the Navajo Nation.

E. The Resources and Development Committee finds a waiver of the bond requirement, 25 C.F.R. § 169, is in the best interest of the Navajo Nation. See, Exhibit "D" which are letters from the Navajo Nation President and the Acting Director of the Bureau of Indian Affairs.

F. The Resources and Development Committee finds a waiver of valuation, 25 C.F.R. § 169.110, and that the waiver of valuation is in the best interest of the Navajo Nation.

G. The environmental and archaeological studies have been completed and are attached hereto and incorporated herein by this reference.

SECTION THREE. APPROVAL

A. The Resources and Development Committee of the Navajo Nation Council hereby grants approval of a Right-of-Way and Temporary Construction easement to U.S. Bureau of Reclamation to construct, operate and maintain the "Reaches 9B, 10 and 11-Navajo Gallup Water Supply Project" located on Navajo Nation Trust Lands in the Coyote Canyon, Mexican Springs, Naschitti, Tohatchi and Twin Lakes Chapter vicinities, McKinley County, New Mexico. The location is more particularly described on the map attached hereto as Exhibit "B".

B. The Resources and Development Committee of the Navajo Nation Council hereby waives the consideration for the Right-of-Way and Temporary Construction Easement because the "Reaches 9B, 10 and 11-Navajo Gallup Water Supply Project" will provide a public benefit to the Navajo Nation.

C. The Resources and Development Committee of the Navajo Nation Council hereby approves the Right-of-Way and Temporary Construction Easement subject to, but not limited to, the terms and conditions incorporated herein as Exhibits "E" and "E-1,"

D. The Resources and Development Committee of the Navajo Nation Council hereby approves waiver of the bond requirement.

E. The Resources and Development Committee of the Navajo Nation Council hereby approves waiver of valuation.

F. The Resources and Development Committee of the Navajo Nation Council hereby authorizes the President of the Navajo Nation to execute any and all documents necessary to affect the intent and purpose of this resolution.

CERTIFICATION

I, hereby certify that the following resolution was duly considered by the Resources and Development Committee of the 23rd Navajo Nation Council at a duly called meeting at Navajo Technical University, Crownpoint, Navajo Nation (New Mexico), at which a quorum was present and that same was passed by a vote of 5 in favor, 0 opposed, 1 abstained on this 27th day of June, 2017.



Alton Joe Shepherd, Chairperson
Resources and Development Committee
of the 23rd Navajo Nation Council

Motion: Davis Filfred
Second: Jonathan Perry

EXECUTIVE OFFICIAL REVIEW

Title of Document: BOR-ROW San Juan Lateral-NGWS Prjt Contact Name: DRAPER, HOWARD

Program/Division: DIVISION OF NATURAL RESOURCES

Email: michellehoskie@frontier.com Phone Number: 9258-871-6447

<input type="checkbox"/>	Business Site Lease			Sufficient	Insufficient
	1. Division:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Office of the Controller:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	(only if Procurement Clearance is not issued within 30 days of the initiation of the E.O. review)				
	3. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Business and Industrial Development Financing, Veteran Loans, (i.e. Loan, Loan Guarantee and Investment) or Delegation of Approving and/or Management Authority of Leasing transactions				
	1. Division:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Fund Management Plan, Expenditure Plans, Carry Over Requests, Budget Modifications				
	1. Office of Management and Budget:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Office of the Controller:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	3. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Navajo Housing Authority Request for Release of Funds				
	1. NNEPA:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Lease Purchase Agreements				
	1. Office of the Controller:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	(recommendation only)				
	2. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Grant Applications				
	1. Office of Management and Budget:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Office of the Controller:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	3. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Five Management Plan of the Local Governance Act, Delegation of an Approving Authority from a Standing Committee, Local Ordinances (Local Government Units), or Plans of Operation/Division Policies Requiring Committee Approval				
	1. Division:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	Relinquishment of Navajo Membership				
	1. Land Department:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	2. Elections:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>
	3. Office of the Attorney General:	_____	Date: _____	<input type="checkbox"/>	<input type="checkbox"/>

Land Withdrawal or Relinquishment for Commercial Purposes

Sufficient Insufficient

1. Division: _____ Date: _____
2. Office of the Attorney General: _____ Date: _____

Land Withdrawals for Non-Commercial Purposes, General Land Leases and Resource Leases

1. NLD _____ Date: _____
2. F&W _____ Date: _____
3. HPD _____ Date: _____
4. Minerals _____ Date: _____
5. NNEPA _____ Date: _____
6. DNR _____ Date: _____
7. DOJ _____ Date: _____

Rights of Way

1. NLD _____ Date: _____
2. F&W _____ Date: _____
3. HPD _____ Date: _____
4. Minerals _____ Date: _____
5. NNEPA _____ Date: _____
6. Office of the Attorney General: _____ Date: _____
7. OPVP _____ Date: _____

Oil and Gas Prospecting Permits, Drilling and Exploration Permits, Mining Permit, Mining Lease

1. Minerals _____ Date: _____
2. OPVP _____ Date: _____
3. NLD _____ Date: _____

Assignment of Mineral Lease

1. Minerals _____ Date: _____
2. DNR _____ Date: _____
3. DOJ _____ Date: _____

ROW (where there has been no delegation of authority to the Navajo Land Department to grant the Nation's consent to a ROW)

1. NLD _____ Date: _____
2. F&W _____ Date: _____
3. HPD _____ Date: _____
4. Minerals _____ Date: _____
5. NNEPA _____ Date: _____
6. DNR _____ Date: _____
7. DOJ **(ic)** _____ Date: 5-16-15
8. OPVP _____ Date: 5-21-17

OTHER:

1. _____ Date: _____
2. _____ Date: _____
3. _____ Date: _____
4. _____ Date: _____
5. _____ Date: _____

Navajo Land Title Data System (NLTDs)
Navajo Land Title, Navajo Land Title Data System - Windowrock AZ:
Document Information

Document Name: 005_C021_00007409.zip
Revision:
Version: 1
Document Desc:
Document Author: Stevie Hudson GLDD (Navajo Land Title Data System - Windowrock AZ)
Document Status: Sufficient
Document Type: 164 Review Process
Effective Date: 23-Mar-2017
Expires: Never
Uploaded from:
 Navajo Land Title Data System (NLTDs) Phase 1: Plan for Quality Management System
 Step 973: 005_C021_00007409
 Task 1: Upload and Manage Documents
Size: 95013 KB
Date Uploaded: 25-Jan-2017
Maintained by: Project Management Team

No Document Distribution Locations

Tier 1 Document Voting Results

User Name (Facility)	Job Title	Department	Vote Cast	Comments	Replies	Vote Date
Eugenia Quintana EPA (Navajo Land Title Data System - Windowrock AZ)	Air and Toxics - Reviewer	Navajo Nation Environmental Protection Agency	Approved	<i>no comments</i>	<i>No Reply</i>	01-Feb-2017
Lee Anna Martinez EPA (Navajo Land Title Data System - Windowrock AZ)	Water Quality - Reviewer	Navajo Nation Environmental Protection Agency	Approved	1. Please contact our office regarding your project crossing numerous waterways within the Navajo Reservation, ephemeral or perennial. A Clean Water Act Section 401 will be needed for this project. Please contact our office at 928-871-7690 or visit our website at www.navajonationepa.org.. Thank you.	1.	21-Feb-2017
Pam Kyselka F&W (Navajo Land Title Data System - Windowrock AZ)	Technical Review	Fish and Wildlife	Approved	1. Where is the BRCF?? Don't send me incomplete packages.	1.	06-Feb-2017
Pam Maples EPA (Navajo Land Title Data System - Windowrock AZ)	Storage Tanks Program - Reviewer	Navajo Nation Environmental Protection Agency	Approved	1. This is the second approval I have submitted.	1.	07-Feb-2017
Patrick Antonio EPA (Navajo Land Title Data System - Windowrock AZ)	Water Quality - Supervisor	Navajo Nation Environmental Protection Agency	Approved	1. Unclear which reach is or reaches are involved. CONDITIONAL: Requires coverage under the federal Construction General Permit for storm water discharges. A Notice of Intent (NOI) must be submitted to U.S. EPA 14 days prior to earthmoving. A Storm Water Pollution Prevention Plan must be developed prior to NOI submission.	1.	25-Jan-2017
Robert Allan DNR (Navajo Land Title Data System - Windowrock AZ)	Deputy Director DNR	DNR Administration	Approved	<i>no comments</i>	<i>No Reply</i>	08-Feb-2017
Yolanda Barney EPA (Navajo Land Title Data System - Windowrock AZ)	Public Water System Supervision Program	Navajo Nation Environmental Protection Agency	Approved	1. Please see attached memo.	1.	25-Jan-2017

Tier 2 Document Voting Results

User Name (Facility)	Job Title	Department	Vote Cast	Comments	Replies	Vote Date
Bidtah N. Becker (FBFA)	FBFA Users	FBFA Action Team	Approved	1. I have uploaded a draft ROW developed by the General Land Development Department. It is a draft that will need to be reviewed by DOJ. Included are terms and conditions specific to the Bureau of Reclamation and the NGWSP. Those terms and conditions need to be reviewed by DOJ as well to ensure that they are still current. Please contact me with any questions.	1.	23-Mar-2017
Ronnie Ben EPA (Navajo Land Title Data System - Windowrock AZ)	Underground Injection Control - Reviewer	Navajo Nation Environmental Protection Agency	Approved	1. concur with NNEPA staff review and comments.	1.	21-Feb-2017
Sam Diswood (Navajo Land Title Data System - Windowrock AZ)	Technical Review	Fish and Wildlife	Approved	<i>no comments</i>	<i>No Reply</i>	21-Feb-2017
Steven Prince MIN (Navajo Land Title Data System - Windowrock AZ)	Technical Reviewer	Navajo Nation Minerals Management	Approved	1. This vote is contingent on permanent inclusion of the two Terms and Conditions documents which I have uploaded. slp	1.	22-Mar-2017
Tamara Billie NNHP (Navajo Land Title Data System - Windowrock AZ)	HPD Reviewer	Historic Preservation Department	Approved	<i>no comments</i>	<i>No Reply</i>	22-Feb-2017
W. Mike Halona (Navajo Land Title Data System - Windowrock AZ)	Manager III Navajo Land Department	NLD Administration	Approved	<i>no comments</i>	<i>No Reply</i>	21-Feb-2017



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION**

REQUEST FOR CONSENT TO A GRANT OF PERMANENT EASEMENT FOR RIGHT-OF-WAY

Tribal Trust Lands – NGWSP Reaches 9B through 11

LANDOWNER NAME: Navajo Nation **Tract No.'s:** 791 T-8153, 791 T-8156, 791 T-8179, 791 T-8182, 791 T-8183, 791 T-10041

The Navajo-Gallup Water Supply Project (NGWSP) is a priority project of the United States and the Navajo Nation; therefore, the Department of the Interior, Bureau of Reclamation, the Navajo Nation, and the Bureau of Indian Affairs are working as partners to streamline the processes, as necessary, to meet all project deadlines. Reclamation therefore respectfully requests that this application for NGWSP Rights-of-Way be prioritized accordingly, and that the application is processed when received.

*Please note that the acquisition of tribal consent is time sensitive. Reclamation respectfully requests that the consent to this easement be granted on or before **July 1, 2017** to allow for additional processing by the BIA.*

COMES NOW THE APPLICANT: The Bureau of Reclamation, Four Corners Construction Office, having a principle place of business at 1235 La Plata Highway, Farmington, New Mexico 87401, who on this 16th day of December, 2016, hereby petitions the Navajo Nation Land Department, and respectfully files under the terms and provisions of the Act of February 5, 1948 (62 Stat. 17; 25 USC 323-328), and Departmental Regulations 25 C.F.R., Ch. 1, Subchapter H, Subpart C, Part 169 § 169.107(a), a request for Tribal Consent to a Grant of Permanent Easement for Right-of-Way, without limitation in term, and for as long as the easement is used for the intended purpose as described herein.

The Permanent ROW requested for Reaches 9 through 11 in this application is approximately 79,923.64 feet in length (15.14 miles), and will contain 147.58 acres, more or less.

The Permanent Right-of-Way (ROW) will be utilized for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller, water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are located in McKinley County, New Mexico.

The NGWSP is divided into segments called, "Reaches." Each Reach is designated by a number that designates a section of pipe between two turnouts, or delivery points, along the pipeline. This ROW application combines Reach 9B, Reach 10, and Reach 11. Please see the attached map showing the alignment of Reaches 9 through 11, dated 12-06-2016 (CD), that is by reference, made a part hereof.

ROW for Reach 9B through 11 is Requested for the Following Three Parcels Located on Tribal Trust Lands:

(1) Permanent ROW – Pipeline - Parcel No. RCH 9B-Tribal Trust-01(P): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31, and 32, Township 19 North, Range 17 West; and Sections 06 and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and of varying width, containing 95.46 acres more or less, as illustrated on ROW Drawing No.'s 1695-529-60114 and 1695-529-60115.

- (2) **Permanent ROW - Pipeline - Parcel No. RCH 10-Tribal Trust-01(P):** A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 26, 27, and 34, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico. Said parcel being approximately 5,544.00 (1.05 miles) in length and 80 feet wide, containing 10.18 acres more or less, as illustrated on ROW Drawing No. 1695-529-60113.
- (3) **Permanent ROW – Pipeline - Parcel No. RCH 11-Tribal Trust-01(P):** A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Section 34, Township 18 North, Range 18 West, and Sections 03, 04, 09, 16, and 17, Township 17 North, Range 18 West, N.M.P.M., McKinley County, New Mexico. Said parcel being approximately 22,620 feet (4.28 miles) in length and of varying width, containing 41.94 acres more or less, as illustrated on ROW Drawing No. 1695-529-60112.

The Purpose of the Proposed Action: The Omnibus Public Land Management Act of 2009, Title X, Part III (Public Law 111-11) (Act) authorizes the Bureau of Reclamation to construct the NGWSP that includes water treatment plants, pipeline, several pumping stations and ancillary facilities. Once completed, the NGWSP will deliver a reliable source of potable water, sourced from the San Juan River, to Navajo communities in northwestern New Mexico, the City of Gallup, NM, and the southwest portion of the Jicarilla Apache Reservation for municipal and industrial use. The NGWSP will connect to existing and future water distribution systems operated on the reservation by the Navajo Tribal Utility Authority (NTUA) and in Gallup, by the City of Gallup. The high quality treated water provided by the NGWSP will bring immediate benefits, including improved health and wellbeing to Tribal members.

Authorization: Reclamation is authorized by the Act, under Part III, Section 10602, Subsection (c)(1) and (2) which states : *“As a condition of construction of the facilities authorized under this part, the Project Participants shall provide all land or interest in land, as appropriate, that the Secretary identifies as necessary for acquisition under this subsection at no cost to the Secretary”*. Therefore, Reclamation hereby respectfully requests that this application be processed so as to acquire ROW that is deemed necessary and appropriate in order to accommodate the construction, operation, maintenance, and replacement of the main and ancillary facilities of the NGWSP Reaches 9 through 11.

The Three Reach 9 through 11 Parcels are described as follows:

- (1) **Description - Permanent ROW – Parcel No. RCH 9B-Tribal Trust-01(P):** Reach 9B ROW will be approximately 51,759.64 feet (9.80 miles) in length, and of varying width, containing 95.46 acres more or less. The Reach 9B pipeline will begin at Station 90702+40.36, located in Section 16, Township 19 North, Range 17 West, and will terminate at Station 91220+00.00, located in Section 26, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico.

Easement Type, Size and Purpose: Parcel No. RCH 9B-Tribal Trust-01(P), a Permanent Easement for ROW, is described as being a strip of land approximately 51,759.64 feet (9.80 miles) in length, and of varying width, containing approximately 95.46 acres more or less, for the construction, operation, maintenance and/or replacement of a water transmission pipeline with appurtenances thereto. Ancillary appurtenances may include but are not limited to a fenced and graveled yard, pipeline, vaults, valves, fiber optic supervisory control and data acquisition systems (SCADA), cathodic protection systems, single phase utility power to support the operation of the pipeline, tanks, and yard infrastructure, and a patrol road.

Across the following described Navajo Tribal Trust Lands: Parcel No. RCH 9B-Tribal Trust-01(P) being a parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Section 16, 20, 21, 29, 31, and 32, Township 19 North, Range 17 West; and Sections 06 and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. Parcel No. RCH 9B-Tribal Trust-01(P) is illustrated on ROW Drawing No.’s 1695-529-60114 and 1695-529-60115, and Plan and Profile Drawing No.’s 1695-D-T27888 through 1695-D-T28025 (CD), attached hereto and by reference made a part hereof.

Permanent ROW - Parcel No. RCH 9B-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60114 and 1695-529-60115: A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Northwest Quarter of the Northwest Quarter of the Northeast Quarter (NW1/4NW1/4NE1/4) and the West Half (W1/2) of Section 16, and the Southeast Quarter (SE1/4) of Section 20, and the West Half (W1/2) of Section 21, and the East Half (E1/2) and the Southeast Quarter of the Southwest Quarter (SE1/4SW1/4) of Section 29, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 31, and the West Half (W1/2) of Section 32, all located in Township 19 North of Range 17 West; and, the East Half (E1/2) and the Southeast Quarter of the Southeast Quarter of the Southwest Quarter (SE1/4SE1/4SW1/4) of Section 06, and the West Half (W1/2) of Section 07, all located in Township 18 North of Range 17 West; and, the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4) of Section 12, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 13, and the East Half (E1/2) of Section 23, and the Northwest Quarter of the Northwest Quarter (NW1/4NW1/4) of Section 24, and the Northwest Quarter of the Northwest Quarter of the Northeast Quarter (NW1/4NW1/4NE1/4) and the West Half (W1/2) of Section 26, all located in Township 18 North of Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. See ROW Calculations for Block 9 through 11 (CD), that lists the aliquot descriptions for Reach 9B(P), and Table of S,T,R - Rch 9 through 11 that shows the length of each Reach from station to station, each attached hereto, and by reference are made a part hereof.

Reach 9B ROW being described as a strip of land being 80 feet wide, lying 40 feet each side, from Station 90702+40.36 to Station 91185+00; Thence being 150 feet wide, lying 75 feet each side from Station 91185+00 to Station 91187+50, the ROW being widened to accommodate the maintenance of support structures for wash crossings; Thence being 80 feet wide, lying 40 feet each side from Station 91187+50 to Station 91220+00, on the pipeline centerline. Reclamation requests a varying width of said Permanent Easement for ROW, in order to avoid cultural resources occurring in the area, to provide additional Permanent ROW width at wash crossings for bank stabilization structures, and for the continuous maintenance of said structures.

Parcel No. RCH 9B-Tribal Trust-01(P) is approximately 51,759.64 feet (9.80 miles) in length, and contains 95.46 acres, more or less.

Reach 9B will be joined to the NGWSP Reach 10 at Station 91220+00. ROW Drawing No.'s 1695-529-60114 and 1695-529-60115 illustrate the Reach 9B pipeline alignment, and Plan and Profile Drawing No.'s 1695-D-T27888 through 1695-D-T28025 (CD), illustrate the alignment and the locations of ancillary appurtenances.

Legal Description of ROW – Parcel No. RCH 9B-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60114 and 1695-529-60115: The Point of Beginning being Reach 9B Station 90702+40.36, a point on the North line of said Section 16 from which the North Quarter Corner of said Section 16 bears North 89°31'14" West a distance of 222.03 feet; Thence, from the Point of Beginning South 16°15'55" West a distance of 1050.64 feet to Station 90712+91.00; Thence South 12°59'03" West a distance of 4085.00 feet to Station 90753+76.00; Thence South 23°47'16" West a distance of 305.63 feet to Station 90756+81.63, a point the North line of said Section 21 from which the North Quarter Corner of said Section 21 bears South 89°30'47" East a distance of 1066.57 feet; Thence continuing South 23°47'16" West a distance of 3840.37 feet to Station 90795+22.00; Thence South 11°54'09" West a distance of 304.76 feet to Station 90798+26.76, a point on the East line of said Section 20 from which the East Quarter Corner of said Section 20 bears North 00°31'05" East a distance of 1185.67 feet; Thence continuing South 11°54'09" West a distance of 294.24 feet to Station 90801+21.00; Thence South 23°55'34" West a distance of 1270.41 feet to Station 90813+91.41, a point on the North line of said Section 29 from which the Northeast Corner of said Section 29 bears South 89°28'45" East a distance of 562.79 feet; Thence continuing South 23°55'34" West a distance of 1077.59 feet to Station 90824+69.00; Thence South 46°24'59" West a distance of 413.00 feet to Station 90828+82.00; Thence South 23°48'41" West a

distance of 332.00 feet to Station 90832+14.00; Thence South 01°21'21" West a distance of 410.00 feet to Station 90836+24.00; Thence South 23°40'50" West a distance of 1283.00 feet to Station 90849+07.00; Thence South 25°48'38" West a distance of 2333.73 feet to Station 90872+40.73, a point on the North line of said Section 32 from which the North Quarter Corner of said Section 32 bears South 89°28'04" East a distance of 284.12 feet; Thence continuing South 25°48'38" West a distance of 72.27 feet to Station 90873+13.00; Thence South 28°26'23" West a distance of 1367.00 feet to Station 90886+80.00; Thence South 27°13'05" West a distance of 1712.00 feet to Station 90903+92.00; Thence South 29°12'51" West a distance of 331.00 feet to Station 90907+23.00; Thence South 23°50'49" West a distance of 1235.00 feet to Station 90919+58.00; Thence South 29°25'33" West a distance of 567.01 feet to Station 90925+25.01, a point on the East line of Section 31 from which the Southeast Corner of said Section 31 bears South 00°38'11" West a distance of 554.18 feet; Thence continuing South 29°25'33" West a distance of 39.99 feet to Station 90925+65.00; Thence South 17°39'05" West a distance of 543.21 feet to Station 90931+08.20, a point on the North line of Township 18 North, Range 17 West, Section 06 from which the Northeast Corner of said Section 06 bears South 89°27'33" East a distance of 178.21 feet; Thence continuing South 17°39'05" West a distance of 6.79 feet to Station 90931+15.00; Thence South 27°09'09" West a distance of 1800.00 feet to Station 90949+15.00; Thence South 31°38'43" West a distance of 470.00 feet to Station 90953+85.00; Thence South 59°07'07" West a distance of 539.00 feet to Station 90959+24.00; Thence South 29°12'25" West a distance of 1217.00 feet to Station 90971+41.00; Thence South 19°19'31" East a distance of 343.00 feet to Station 90974+84.00; Thence South 26°58'01" West a distance of 1795.90 feet to Station 90992+79.89, a point on the North line of said Section 07 from which the North Quarter Corner of said Section 07 bears South 89°18'16" East a distance of 343.41 feet; Thence continuing South 26°58'01" West a distance of 497.10 feet to Station 90997+77.00; Thence South 34°10'14" West a distance of 2191.00 feet to Station 91019+68.00; Thence South 36°27'29" West a distance of 912.00 feet to Station 91028+80.00; Thence South 10°19'32" East a distance of 253.00 feet to Station 91031+33.00; Thence South 33°07'06" West a distance of 697.84 feet to Station 91038+30.83, a point on the East line of Township 18 North, Range 18 West, Section 12 from which the Southeast Corner of said Section 12 bears South 00°26'20" West a distance of 1437.19 feet; Thence continuing South 33°07'06" West a distance of 1706.49 feet to Station 91055+37.33, a point on the North line of said Section 13 from which the Northeast Corner of said Section 13 bears South 89°30'34" East a distance of 921.40 feet; Thence continuing South 33°07'06" West a distance of 1907.67 feet to Station 91074+45.00; Thence South 58°37'37" West a distance of 265.00 feet to Station 91077+10.00; Thence South 32°48'57" West a distance of 848.00 feet to Station 91085+58.00; Thence South 33°52'25" West a distance of 3136.00 feet to Station 91116+94.00; Thence South 52°46'29" West a distance of 316.00 feet to Station 91120+10.00; Thence South 32°38'38" West a distance of 5.94 feet to Station 91120+15.94, a point on the North line of said Section 24 from which the Northwest Corner of said Section 24 bears North 89°30'14" West a distance of 674.83 feet; Thence continuing South 32°38'38" West a distance of 782.05 feet to Station 91127+98.00; Thence South 15°10'52" East a distance of 336.00 feet to Station 91131+34.00; Thence South 33°06'59" West a distance of 647.63 feet to Station 91137+81.63, a point on the East line of said Section 23 from which the East Quarter Corner of said Section 23 bears South 00°28'56" West a distance of 1108.83 feet; Thence continuing South 33°06'59" West a distance of 2539.37 feet to Station 91163+21.00; Thence South 43°05'59" West a distance of 710.00 feet to Station 91170+31.00; Thence South 33°12'25" West a distance of 1291.14 feet to Station 91183+22.13, a point on the North line of said Section 26 from which the North Quarter Corner of said Section 26 bears North 89°28'34" West a distance of 92.20 feet; Thence continuing South 33°12'25" West a distance of 18.86 feet to Station 91183+41.00; Thence South 26°45'21" West a distance of 1441.00 feet to Station 91197+82.00; Thence South 34°50'18" West for a distance of 2218.00 feet to Station 91220+00.00 and the Point of Terminus from which the West Quarter Corner of said Section 26 bears North 58°27'50" West a distance of 971.21 feet. Parcel No. RCH 9B-Tribal Trust-01(P) is approximately 51,759.64 feet (9.80 miles) in length, and contains 95.46 acres more or less.

(2) Description - ROW - Parcel No. RCH 10-Tribal Trust-01(P): Reach 10 ROW will be approximately 5,544 feet (1.05 miles) in length, and 80 feet in width, lying 40 feet each side of the pipeline centerline, containing 10.18 acres more or less. The Reach 10 pipeline will begin at Station 10003+58.44, located in Section 26, Township 18 North, Range 18 West, and will terminate at Station 10059+02.44, located in Section 34, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico.

Easement Type, Size and Purpose: Parcel No. RCH 10-Tribal Trust-01(P), a Permanent Easement for ROW is described as being a strip of land approximately 5,544 feet (1.05 miles) in length, and 80 feet in width, lying 40 feet each side of the pipeline centerline, containing approximately 10.18 acres more or less, for the construction, operation, maintenance and/or replacement of a water transmission pipeline with appurtenances thereto. Ancillary appurtenances may include but are not limited to a fenced and graveled yard, pipeline, vaults, valves, fiber optic supervisory control and data acquisition systems (SCADA), cathodic protection systems, single phase utility power to support the operation of the pipeline, tanks, and yard infrastructure, and a patrol road.

Across the following described Navajo Tribal Trust Lands: Parcel No. RCH 10-Tribal Trust-01(P) being a parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 26, 27, and 34, Township 18 North, Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. Parcel No. RCH 10-Tribal Trust-01(P) is illustrated on ROW Drawing No. 1695-529-60113, and Plan and Profile Drawing No. 1695-D-T24015 (CD), attached hereto and by reference made a part hereof.

Permanent ROW - Parcel No. RCH 10-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60113: A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. See ROW Calculations for Block 9 through 11 (CD), that lists the aliquot descriptions for Reach 10(P), and Table of S,T,R - Rch 9 through 11 that shows the length of each Reach from station to station, each attached hereto, and by reference are made a part hereof.

Reach 10 will be joined to the NGWSP Pumping Plant No. 7 at Station 10059+02.44. ROW Drawing No. 1695-529-60113 illustrates the Reach 10 pipeline alignment, and Plan and Profile Drawing No. 1695-D-T24015 (CD), illustrates the alignment and the locations of ancillary appurtenances. The Reach 10 ROW will contain 10.18 acres, more or less.

Legal Description of ROW – Parcel No. RCH 10-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60113: The Point of Beginning being Reach 10 Station 10003+58.44 from which the West Quarter Corner of said Section 26 bears North 58°27'50" West a distance of 971.21 feet; Thence, from the Point of Beginning South 34°50'20" West a distance of 731.56 feet to Station 10010+90.00; Thence South 25°11'00" West a distance of 750.00 feet to Station 10018+40.00; Thence South 35°11'00" West a distance of 175.42 feet to Station 10020+15.43, a point on the East line of said Section 27 from which the Southeast Corner of Section 27 bears South 00°28'10" West a distance of 712.91 feet; Thence continuing South 35°11'00" West a distance of 866.69 feet to Station 10028+82.11, a point on the North line of said Section 34 from which the Northeast Corner of said Section 34 bears South 89°28'26" East a distance of 493.56 feet; Thence continuing South 35°11'00" West a distance of 1127.89 feet to Station 10040+10.00; Thence South 51°27'20" West a distance of 357.00 feet to Station 10043+67.00; Thence South 32°49'58" West a distance of 1320.15 feet to Station 10056+87.15; Thence South 56°46'18" East a distance of 215.29 feet to Station 10059+02.44 and the Point of Terminus, which is Reach 11 Station 11056+10.00, from which the East Quarter Corner of said Section 34 bears South 81°58'32" East a distance of 1955.70 feet. Parcel No. RCH 10-Tribal Trust-01(P) is approximately 5,544 feet (1.05 miles) in length, and contains 10.18 acres more or less.

(3) Description - Permanent ROW - Parcel No. RCH 11-Tribal Trust-01(P): Reach 11 ROW will be approximately 22,620 feet (4.28 miles) in length, and of varying width, containing 41.94 acres more or less. The Reach 11 pipeline will begin at Station 11053+60.00, located in Section 34, Township 18 North, Range 18 West, and will terminate at Station 11279+80.00, located in Section 17, Township 17 North, Range 18 West, N.M.P.M., McKinley County, New Mexico.

Easement Type, Size and Purpose: Parcel No. RCH 11-Tribal Trust-01(P), a Permanent Easement for ROW, is described as being a strip of land approximately 22,620 feet (4.28 miles) in length, containing 41.94 acres more or less, for the construction, operation, maintenance and/or replacement of a water transmission pipeline with appurtenances thereto. Ancillary appurtenances may include but are not limited to a fenced and graveled yard, pipeline, vaults, valves, fiber optic supervisory control and data acquisition systems (SCADA), cathodic protection systems, single phase utility power to support the operation of the pipeline, tanks, and yard infrastructure, and a patrol road.

Across the following described Navajo Tribal Trust Lands: Parcel No. RCH 11-Tribal Trust-01(P) being a parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Section 34, Township 18 North, Range 18 West, and Sections 03, 04, 09, 16, and 17, Township 17 North, Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. Parcel No. RCH 11-Tribal Trust-01(P) is illustrated on ROW Drawing No. 1695-529-60112, and Plan and Profile Drawing No.'s 1695-D-T19087 through 1695-D-T19093 (CD), attached hereto and by reference made a part hereof.

Permanent ROW - Parcel No. RCH 11-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60112: A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. See ROW Calculations for Block 9 through 11 (CD), that lists the aliquot descriptions for Reach 11(P), and Table of S,T,R - Rch 9 through 11 that shows the length of each Reach from station to station, attached hereto, and that by reference are made a part hereof.

Reach 11 ROW being described as a strip of land 80 feet wide, lying 40 feet each side, from Station 11053+60.00 to Station 11166+00.00; Thence being 150 feet wide, lying 75 feet each side from Station 11166+00.00 to Station 11168+50.00, being widened to accommodate the maintenance of support structures for wash crossings; Thence being 80 feet wide, lying 40 feet each side from Station 11168+50.00 to Station 11279+80.00, on the pipeline centerline. Reclamation requests a varying width of said Permanent Easement for ROW, in order to avoid cultural resources occurring in the area, and to provide additional Permanent ROW width at wash crossings for bank stabilization structures, and for the continuous maintenance of said structures. The Reach 11 Permanent ROW will be approximately 22,620 feet (4.28 miles) in length, containing 41.94 acres more or less.

Reach 11 will be joined to the NGWSP Reach 12A pipeline at Station 11279+80.00. ROW Drawing No. 1695-529-60112 illustrates the Reach 11 pipeline alignment, and Plan and Profile Drawing No.'s 1695-D-T19087 through 1695-D-T19093 (CD), illustrate the alignment and the locations of ancillary appurtenances.

Legal Description of ROW – Parcel No. RCH 11-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60112: The Point of Beginning being Reach 11 Station 11053+60.00 from which the East Quarter Corner of said Section 34 bears South 75°00'06" East a distance of 1863.02 feet; Thence, from the Point of Beginning South 33°13'42" West a distance of 296.19 feet to Station 11056+56.19; Thence South 63°13'42" West a distance of 393.81 feet to Station 11060+50.00; Thence South 33°13'42"

West a distance of 270.00 feet to Station 11063+20.00; Thence South 26°33'58" East a distance of 300.00 feet to Station 11066+20.00; Thence South 58°20'37" West a distance of 460.00 feet to Station 11070+80.00; Thence South 37°03'05" West a distance of 510.00 feet to Station 11075+90.00; Thence South 32°59'14" West a distance of 1810.10 feet to Station 11094+00.10, a point on the North line of said Township 17 North, Range 18 West, Section 03, from which the Northwest Corner of said Section 03 bears North 89°28'02" West a distance of 1293.21 feet; Thence continuing South 32°59'14" West a distance of 2405.88 feet to Station 11118+05.98, a point on the East line of said Section 04 from which the East Quarter Corner of said Section 04 bears South 00°28'20" West a distance of 604.72 feet; Thence continuing South 32°59'14" West a distance of 3841.38 feet to Station 11156+47.36, a point on the North line of said Section 09 from which the North Quarter Corner of said section 09 bears North 89°22'11" West a distance of 574.69 feet; Thence continuing South 32°59'14" West a distance of 3372.64 feet to Station 11190+20.00; Thence South 10°11'55" West a distance of 730.00 feet to Station 11197+50.00; Thence South 33°19'41" East a distance of 480.00 feet to Station 11202+30.00; Thence South 37°23'08" East a distance of 700.00 feet to Station 11209+30.00; Thence South 09°43'39" West a distance of 771.66 feet to Station 11217+01.66, a point on the North line of said Section 16 from which the North Quarter Corner of said Section 16 bears South 89°21'39" East a distance of 787.48 feet; Thence continuing South 09°43'39" West a distance of 1428.34 feet to Station 11231+30.00; Thence South 79°07'36" West a distance of 660.00 feet to Station 11237+90.00; Thence North 86°24'45" West a distance of 976.97 feet to Station 11247+66.97, a point on the East line of said Section 17 from which the East Quarter Corner of said Section 17 bears South 00°29'15" West a distance of 1148.42 feet; Thence continuing North 86°24'45" West a distance of 723.03 feet to Station 11254+90.00; Thence South 31°55'40" West a distance of 750.00 feet to Station 11262+40.00; Thence South 26°54'07" West a distance of 740.00 feet to Station 11269+80.00; Thence South 58°59'07" West a distance of 280.00 feet to Station 11272+60.00; Thence South 01°10'28" East a distance of 720.00 feet to Station 11279+80.00, the Point of Terminus from which the South Quarter Corner of said Section 17 bears South 31°08'00" West a distance of 1920.42 feet.

Parcel No. RCH 11-Tribal Trust-01(P) is approximately 22,620 feet (4.28 miles) in length, and contains 41.94 acres more or less.

Landowner Consent: The Navajo Nation gave its concurrence to permission to survey the San Juan Lateral of the NGWSP on August 14, 2009. On March 1, 2010, the Bureau of Indian Affairs, Fort Defiance Agency granted Reclamation Permission to Survey over, across and through Reaches 9, 10, 11, and 12 of the San Juan Lateral, for the purpose of conducting surveys and studies to determine a final pipeline alignment. The final pipeline alignment across said Reaches is illustrated on the alignment map of Reach 9 through 11, dated December 6, 2016, and the aforementioned ROW and Plan and Profile Drawings attached hereto (CD), and by reference are made a part hereof.

Reclamation hereby requests the consent of the Navajo Nation to a grant of Permanent Easement for ROW for Reaches 9 through 11, over, across and through the aforementioned Tribal Trust Lands, and that in granting said consent, the Navajo Nation waives compensatory consideration of the fair market value of the easement, and agrees to forego the requisite appraisal of the ROW.

The total Reach 9-11 ROW requested in this application is approximately 78,169-feet in length (14.80 miles), and will contain 147.58 acres, more or less.

Environmental Clearance: The Record of Decision (ROD) and Final Environmental Impact Statement (FEIS) (Bureau of Reclamation 2009) for the Navajo-Gallup Water Supply Project, is attached hereto (CD) and by reference is made a part hereof. The ROD and FEIS can also be viewed on the world-wide web at <http://www.usbr.gov/uc/envidocs/eis/navgallup/FEIS/index.html>. The alignment of Reaches 9 through 11 has not changed substantially from what was presented in the FEIS and ROD.

As discussed with Pamela A. Kyselka, Wildlife Biologist, Navajo Natural Heritage Program, Department of Fish and Wildlife, on December 7, 2016, Reclamation will conduct a NEPA Sufficiency Review over Reaches 9 through 11 to determine if the proposed action would have any new potentially significant impacts, not already discussed and considered in previous NEPA documentation.

Cultural Resources Compliance: Please see letter dated April 25, 2016 that includes a summary of the Class III Inventory Report and eligibility determinations for Reaches 9 through 11, attached hereto, and by reference made apart hereof. The survey was conducted by PaleoWest under the authority of Navajo Nation Cultural Resources Permit No. B13543. The inventory identified a total of 292 cultural resources, including isolated occurrences, archaeological sites, in-use sites, Navajo Traditional Cultural Properties, and Jishchaa' within the Reach 9 through 11 Area of Potential Effect.

Reclamation submitted said report to the Navajo Nation Historic Preservation Department and concurrence was received from the Tribal Historic Preservation Officer on August 30, 2016, said letter is attached hereto, and by reference, made a part hereof. The report was also consulted upon with all NGWSP signatory and consulting parties in compliance with the Programmatic Agreement for the NGWSP. Following the completion of consultation with Navajo Nation and the NGWSP Programmatic Agreement parties, a final version of the report, with the changes noted in the Navajo Nation's August 30, 2016, concurrence, was submitted to all participants on October 11, 2016.

Per the internal BIA memo from the Supervisory Environmental Protection Specialist, Branch of Environmental Quality, Act Compliance and Review, written to the Supervisory Civil Engineer, Engineering & Technical Support Division, dated October 29, 2015, attached hereto and by reference made a part hereof, the subject report, with concurrence from the Navajo Nation Historic Preservation Department, is considered acceptable for compliance with the National Historic Preservation Act (NHPA).

Waiver of Title 25, Code of Federal Regulations, 25 C.F.R. Part 169.103 (Bonding Requirements): The Bureau of Indian Affairs (BIA), in cooperation with the Bureau of Reclamation and with the support of the Navajo Nation, requested a waiver from the Assistant Secretary – Indian Affairs under 25 C.F.R. § 1.2 and 25 C.F.R. Part 169 § 169.103 bonding requirement, for all NGWSP ROW's.

Said waiver of Title 25, *Code of Federal Regulations*, 25 C.F.R. Part 169.103 (Bonding Requirements) was approved by the Principle Deputy Assistant Secretary – Indian Affairs in a memo dated November 22, 2016. A copy of said waiver is attached (CD), and by reference is made a part hereof.

The Bureau of Reclamation, an agency of the Federal Government, hereby assures that it will pay damages promptly, when they are sustained, under the provisions of the Federal Tort Claims Act (June 25, 1948, Ch. 646, Title IV, 62 Stat. 982, "28 U.S.C. Pt. VI Ch.171" and 28 U.S.C. Part 1346(b)).

SAID APPLICANT UNDERSTANDS AND EXPRESSLY AGREES TO THE FOLLOWING STIPULATIONS:

1. To construct and maintain the right-of-way in a workmanlike manner.
2. ~~To pay all damages and compensation, in addition to the deposit made pursuant to 169.4, determined by the Secretary to be due the landowners and authorized users and occupants of the land due to the survey, granting, construction and maintenance of the right of way.~~
3. ~~To indemnify the landowners and authorized users and occupants against any liability for loss of life, personal injury and property damage arising from the construction, maintenance, occupancy or use of the lands by the applicant, his employees, contractors and their employees, or subcontractors and their employees.~~
4. To restore the lands as nearly as may be possible to their original condition upon the completion of construction, to the extent compatible with the purpose for which the right-of-way was granted.

5. To clear and keep clear the lands within the right-of-way to the extent compatible with the purpose of the right-of-way, and dispose of all vegetative and other material cut, uprooted or otherwise accumulated during construction and maintenance of the project.
6. To take soil and resource conservation protection measures, including weed control, on the land covered by the right-of-way.
7. To do everything reasonable within its power to prevent and suppress fires on or near the lands to be occupied under the right-of-way.
8. To build and repair such roads, fences and trails as may be destroyed or injured by construction work and to build and maintain necessary and suitable crossings for all roads and trails that intersect the works constructed, maintained, or operated under the right-of-way.
9. That upon revocation or termination of the right-of-way, the applicant shall, so far as in reasonably possible, restore the land to its original condition. The determination of "reasonably possible" is subject to Secretary's approval.
10. To at all times keep the Secretary informed of its address, and in case of corporations, of the address of its principal place of business and the names and addresses of its principal officers.
11. The applicant will not interfere with the use of the lands by or under the authority of the landowners, for any purpose not inconsistent with the primary purpose for which the right-of-way is granted.
12. During the term of this Grant of Easement, if any previously unidentified cultural resources are discovered within the easement area, work should be halted immediately and the BIA and/or Tribal Contractor should be contacted immediately.

THE APPLICANT FURTHER STIPULATES AND EXPRESSLY AGREES AS FOLLOWS:

To conform and to abide by all applicable requirements with respect to the right-of-way herein applied for. The applicant agrees to conform to and abide by the rules, regulations, and requirements contained in the *Code of Federal Regulations*, Title 25 Indians, Part 169, as amended, and by reference includes such rules, regulations and requirements as a part of this application to the same effect as if the same were herein set out in full.

IN WITNESS WHEREOF, DOUG DOCKTER, P.E., ASST. CONST. ENGR. has caused this instrument to be executed this 22nd day of DECEMBER, 20 16.



 Witness



 Barry Longwell
 Construction Engineer
 U.S. Bureau of Reclamation
 Four Corners Construction Office
 1235 La Plata Hwy.
 Farmington, NM, 87401

ACTING FOR

Required Supporting Documents:

1. () ~~Form 5-104b.~~
2. () ~~Evidence of Authority of Officers to execute Papers (ROW Form 94-4).~~
3. () ~~Evidence of good faith and financial responsibility.~~
4. () ~~Double estimated damages (deposit – 25 CFR 169.4).~~
5. () ~~State certified corporate charter or articles of incorporation.~~
6. () ~~Certified copy of resolution or by laws of the corporation authorizing the filing of the application.~~
7. () ~~State certification that the applicant is authorized to conduct business in the State of xxx.~~
8. () ~~Certified copy of the articles of partnership or association.~~
9. (x) **Other attachments**
 - (x) Application for Permanent Easement for Right-of-Way
 - (x) Application for Temporary Construction Easement
 - (x) ROW Drawings - Reach 9B - No. 1695-529-60114 and No. 1695-529-60115
 - (x) ROW Drawing - Reach 10 - No. 1695-529-60113
 - (x) ROW Drawing - Reach 11 - No. 1695-529-60112
 - (x) Drawings - Plan & Profile: No. 1695-D-T27888 through No. 1695-D-T19093
 - (x) ROW Description - Reach 9B
 - (x) ROW Description - Reach 10
 - (x) ROW Description - Reach 11
 - (x) Map - NGWSP - Drawing No. 1695-529-537 - April 28, 2015
 - (x) Map - Reach 9B-11 Alignment
 - (x) Map - Reach 9B Alignment
 - (x) Map - Reach 10 Alignment
 - (x) Map - Reach 11 Alignment
 - (x) Navajo Nation Executive Order No. 03-2012
 - (x) Chapter Resolution - Coyote Canyon
 - (x) Chapter Resolution - Mexican Springs
 - (x) Chapter Resolution - Naschitti
 - (x) Chapter Resolution - Tohatchi
 - (x) Chapter Resolution - Twin Lakes
 - (x) TSR - Reach 9 through 11 - Dated 08-04-16
 - (x) Letter - Permission to Survey Reaches 3 through 9
 - (x) Letter - Permission to Survey Reaches 9 through 12
 - (x) Letter - Waiver of 25 CFR Part 169.103 – Dated 11-22-16
 - (x) Final Environmental Impact Statement and Record of Decision can be viewed at:
<http://www.usbr.gov/uc/envdocs/eis/navgallup/FEIS/index.html>.
 - (x) FEIS - Volume 1, Volume 2, and Volume 3 (CD)
 - (x) FEIS - Record of Decision (ROD) Dated 2009 (CD)
 - (x) Phase I ESA - Reach 9
 - (x) Phase I ESA - Reach 10
 - (x) Phase I ESA - Reach 11
 - (x) Class III Inventory Report and Concurrence of Eligibility Determinations - Dated 04-25-16
 - (x) Class III Inventory and Determination of Eligibility - Final Report - NHPA - Dated 10-11-16
 - (x) Memorandum - Acceptable NEPA and NHPA Compliance Documents - Dated 10-29-15
 - (x) ROW Calculations - Reach 9B-11 (Station to Station)
 - (x) Block 9-11 Tribal Trust – Summary – ROW and TCE Length and Acreage by Reach
 - (x) Table - Rch 9-11 – Summary of ROW and TCE Distance and Acreage by Section, Township, Range
 - (x) CD - Rch 9-11 Documents

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION**

APPLICATION FOR CONSENT TO A GRANT OF TEMPORARY CONSTRUCTION EASEMENT

Tribal Trust Lands – NGWSP Reaches 9 through 11

LANDOWNER NAME: Navajo Tribe **Tract No.'s:** 791 T-8153, 791 T-8156, 791 T-8179, 791 T-8182, 791 T-8183, 791 T-10041

The Navajo-Gallup Water Supply Project (NGWSP) is a priority project of the United States and the Navajo Nation; therefore, the Department of the Interior, Bureau of Reclamation, the Navajo Nation, and the Bureau of Indian Affairs are working as partners to streamline the processes, as necessary, to meet all project deadlines. Reclamation therefore respectfully requests that this application for NGWSP Temporary Construction Easement be prioritized accordingly, and that the application is processed when received.

*Please note that the acquisition of tribal consent is time sensitive. Reclamation respectfully requests that the consent to this easement be granted on or before **July 1, 2017** to allow for additional processing by the BIA.*

COMES NOW THE APPLICANT: The Bureau of Reclamation, Four Corners Construction Office, having a principle place of business at 1235 La Plata Highway, Farmington, New Mexico 87401, who on this 16th day of December, 2016, hereby petitions the Navajo Nation Land Department, and respectfully files under the terms and provisions of the Act of February 5, 1948 (62 Stat. 17; 25 USC 323-328), and Departmental Regulations 25 C.F.R., Ch. 1, Subchapter H, Subpart C, Part 169 § 169.107(a), a request for Tribal Consent to a Grant of Temporary Construction Easement to be effective for a term of forty-eight months (4 years) from the date granted, for the following purposes and reasons:

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent ROW, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller, water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are located in McKinley County, New Mexico.

The TCE requested for Reach 9 through 11 in this application is approximately 79,923.64 feet in length (15.14 miles), and will contain 118.87 acres, more or less.

The NGWSP is divided into segments called, "Reaches." Each Reach is designated by a number that designates a section of pipe between two turnouts, or delivery points, along the pipeline. This application for TCE combines Reach 9B, Reach 10, and Reach 11. Please see the attached map showing the alignment of Reaches 9 through 11, dated 12-06-2016 (CD), that is by reference, made a part hereof.

TCE for Reaches 9B through 11 is Requested for the Following Three Parcels Located on Tribal Trust Lands:

- (1) TCE – Pipeline - Parcel No. RCH 9B-Tribal Trust-01(T):** A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31, and 32, Township 19 North, Range 17 West; and Sections 06 and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and of varying width, containing 80.59 acres more or less, as illustrated on ROW Drawing No.'s 1695-529-60114 and 1695-529-60115.

- (2) **TCE - Pipeline - Parcel No. RCH 10-Tribal Trust-01(T)**: A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 26, 27, and 34, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico. Said parcel being approximately 5,544.00 (1.05 miles) in length and of varying width, containing 6.35 acres more or less, as illustrated on ROW Drawing No. 1695-529-60113.
- (3) **TCE – Pipeline - Parcel No. RCH 11-Tribal Trust-01(T)**: A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Section 34, Township 18 North, Range 18 West, and Sections 03, 04, 09, 16, and 17, Township 17 North, Range 18 West, N.M.P.M., McKinley County, New Mexico. Said parcel being approximately 22,620 feet (4.28 miles) in length and of varying width, containing 31.93 acres more or less, as illustrated on ROW Drawing No. 1695-529-60112.

The Purpose of the Proposed Action: The Omnibus Public Land Management Act of 2009, Title X, Part III (Public Law 111-11) (Act) authorizes the Bureau of Reclamation to construct the NGWSP that includes water treatment plants, pipeline, several pumping Stations and ancillary facilities. Once completed, the NGWSP will deliver a reliable source of potable water, sourced from the San Juan River, to Navajo communities in northwestern New Mexico, the City of Gallup, NM, and the southwest portion of the Jicarilla Apache Reservation for municipal and industrial use. The NGWSP will connect to existing and future water distribution systems operated on the reservation by the Navajo Tribal Utility Authority (NTUA) and in Gallup, by the City of Gallup. The high quality treated water provided by the NGWSP will bring immediate benefits, including improved health and wellbeing to Tribal members.

Authorization: Reclamation is authorized by the Act, under Part III, Section 10602, Subsection (c)(1) and (2) which states : *“As a condition of construction of the facilities authorized under this part, the Project Participants shall provide all land or interest in land, as appropriate, that the Secretary identifies as necessary for acquisition under this subsection at no cost to the Secretary”*. Therefore, Reclamation hereby respectfully requests that this application be processed so as to acquire ROW that is deemed necessary and appropriate in order to accommodate the construction, operation, maintenance, and replacement of the main and ancillary facilities of the NGWSP Reaches 9 through 11.

The Three Reach 9 through 11 Parcels are described as follows:

- (1) **Description - TCE – Parcel No. RCH 9B-Tribal Trust-01(T)**: Reach 9B TCE will be approximately 51,759.64 feet (9.80 miles) in length, and of varying width, containing 80.59 acres more or less. The Reach 9B pipeline will begin at Station 90702+40.36, located in Section 16, Township 19 North, Range 17 West, and will terminate at Station 91220+00.00, located in Section 26, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico.

Easement Type, Size and Purpose: Parcel No. RCH 9B-Tribal Trust-01(T), a Temporary Construction Easement (TCE), is described as being a strip of land approximately 51,759.64 feet (9.80 miles) in length, and of varying width, containing approximately 80.59 acres more or less. The TCE will supplement the working space provided by the Permanent ROW, for the construction of a water transmission pipeline with appurtenances thereto.

Across the following described Navajo Tribal Trust Lands: Parcel No. RCH 9B-Tribal Trust-01(T) being a parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Section 16, 20, 21, 29, 31, and 32, Township 19 North, Range 17 West; and Sections 06 and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. Parcel No. RCH 9B-Tribal Trust-01(T) is illustrated on ROW Drawing No.’s 1695-529-60114 and 1695-529-60115, and Plan and Profile Drawing No.’s 1695-D-T27888 through 1695-D-T28025 (CD), attached hereto and by reference made a part hereof.

TCE - Parcel No. RCH 9B-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60114 and 1695-529-60115:

A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Northwest Quarter of the Northwest Quarter of the Northeast Quarter (NW1/4NW1/4NE1/4) and the West Half (W1/2) of Section 16, and the Southeast Quarter (SE1/4) of Section 20, and the West Half (W1/2) of Section 21, and the East Half (E1/2) and the Southeast Quarter of the Southwest Quarter (SE1/4SW1/4) of Section 29, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 31, and the West Half (W1/2) of Section 32, all located in Township 19 North of Range 17 West; and, the East Half (E1/2) and the Southeast Quarter of the Southeast Quarter of the Southwest Quarter (SE1/4SE1/4SW1/4) of Section 06, and the West Half (W1/2) of Section 07, all located in Township 18 North of Range 17 West; and, the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4) of Section 12, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 13, and the East Half (E1/2) of Section 23, and the Northwest Quarter of the Northwest Quarter (NW1/4NW1/4) of Section 24, and the Northwest Quarter of the Northwest Quarter of the Northeast Quarter (NW1/4NW1/4NE1/4) and the West Half (W1/2) of Section 26, all located in Township 18 North of Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. See ROW Calculations for Block 9 through 11 (CD), that lists the aliquot descriptions for Reach 9B(T), and Table of S,T,R - Rch 9 through 11 that shows the length of each Reach from station to station, each attached hereto, and by reference are made a part hereof.

Reach 9B TCE being described as a strip of land being 150 feet wide, lying 75 feet each side, from Station 90702+40.36 to Station 90730+50.00; Thence being 135 feet wide, lying 60 feet left and 75 feet right from Station 90730+50.00 to Station 90731+75.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90731+75.00 to Station 90827+80.00; Thence being 115 feet wide, lying 75 feet left and 40 feet right from Station 90827+80.00 to Station 90833+10.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90833+10.00 to Station 90906+00.00; Thence being 115 feet wide, lying 40 feet left and 75 feet right from Station 90906+00.00 to Station 90908+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90908+00.00 to Station 90931+08.20; Thence being 150 feet wide, lying 75 feet each side from Station 90931+08.20 to Station 90997+20.00; Thence being 120 feet wide, lying 75 feet left and 45 feet right from Station 90997+20.00 to Station 90998+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90998+50.00 to Station 91028+40.00; Thence being 130 feet wide, lying 75 feet left and 55 feet right from Station 91028+40.00 to Station 91033+00.00, the TCE being reduced to avoid a cultural resource site; Thence, being 150 feet wide, lying 75 feet each side from Station 91033+00.00 to Station 91041+00.00; Thence being 130 feet wide, lying 75 feet left and 55 feet right from Station 91041+00.00 to Station 91042+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 each side from Station 91042+50.00 to Station 91119+50.00; Thence being 100 feet wide, lying 50 feet each side from Station 91119+50.00 to Station 91127+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 80 feet wide, lying 40 feet each side from Station 91127+00.00 to Station 91129+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 91129+00.00 to Station 91220+00.00 on the pipeline centerline. Reclamation requests a varying width of said TCE in order to avoid cultural resources occurring in the area.

Parcel No. RCH 9B-Tribal Trust-01(T) is approximately 51,759.64 feet (9.80 miles) in length, and contains 80.59 acres, more or less.

Reach 9B will be joined to the NGWSP Reach 10 at Station 91220+00. ROW Drawing No.'s 1695-529-60114 and 1695-529-60115 illustrate the Reach 9B pipeline alignment, and Plan and Profile Drawing No.'s 1695-D-T27888 through 1695-D-T28025 (CD), illustrate the alignment and the locations of ancillary appurtenances.

Legal Description of ROW – Parcel No. RCH 9B-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60114 and 1695-529-60115: The Point of Beginning being Reach 9B Station 90702+40.36, a point on the North line of said Section 16 from which the North Quarter Corner of said Section 16 bears North 89°31'14" West a distance of 222.03 feet; Thence, from the Point of Beginning South 16°15'55" West a distance of 1050.64 feet to Station 90712+91.00; Thence South 12°59'03" West a distance of 4085.00 feet to Station 90753+76.00; Thence South 23°47'16" West a distance of 305.63 feet to Station 90756+81.63, a point the North line of said Section 21 from which the North Quarter Corner of said Section 21 bears South 89°30'47" East a distance of 1066.57 feet; Thence continuing South 23°47'16" West a distance of 3840.37 feet to Station 90795+22.00; Thence South 11°54'09" West a distance of 304.76 feet to Station 90798+26.76, a point on the East line of said Section 20 from which the East Quarter Corner of said Section 20 bears North 00°31'05" East a distance of 1185.67 feet; Thence continuing South 11°54'09" West a distance of 294.24 feet to Station 90801+21.00; Thence South 23°55'34" West a distance of 1270.41 feet to Station 90813+91.41, a point on the North line of said Section 29 from which the Northeast Corner of said Section 29 bears South 89°28'45" East a distance of 562.79 feet; Thence continuing South 23°55'34" West a distance of 1077.59 feet to Station 90824+69.00; Thence South 46°24'59" West a distance of 413.00 feet to Station 90828+82.00; Thence South 23°48'41" West a distance of 332.00 feet to Station 90832+14.00; Thence South 01°21'21" West a distance of 410.00 feet to Station 90836+24.00; Thence South 23°40'50" West a distance of 1283.00 feet to Station 90849+07.00; Thence South 25°48'38" West a distance of 2333.73 feet to Station 90872+40.73, a point on the North line of said Section 32 from which the North Quarter Corner of said Section 32 bears South 89°28'04" East a distance of 284.12 feet; Thence continuing South 25°48'38" West a distance of 72.27 feet to Station 90873+13.00; Thence South 28°26'23" West a distance of 1367.00 feet to Station 90886+80.00; Thence South 27°13'05" West a distance of 1712.00 feet to Station 90903+92.00; Thence South 29°12'51" West a distance of 331.00 feet to Station 90907+23.00; Thence South 23°50'49" West a distance of 1235.00 feet to Station 90919+58.00; Thence South 29°25'33" West a distance of 567.01 feet to Station 90925+25.01, a point on the East line of Section 31 from which the Southeast Corner of said Section 31 bears South 00°38'11" West a distance of 554.18 feet; Thence continuing South 29°25'33" West a distance of 39.99 feet to Station 90925+65.00; Thence South 17°39'05" West a distance of 543.21 feet to Station 90931+08.20, a point on the North line of Township 18 North, Range 17 West, Section 06 from which the Northeast Corner of said Section 06 bears South 89°27'33" East a distance of 178.21 feet; Thence continuing South 17°39'05" West a distance of 6.79 feet to Station 90931+15.00; Thence South 27°09'09" West a distance of 1800.00 feet to Station 90949+15.00; Thence South 31°38'43" West a distance of 470.00 feet to Station 90953+85.00; Thence South 59°07'07" West a distance of 539.00 feet to Station 90959+24.00; Thence South 29°12'25" West a distance of 1217.00 feet to Station 90971+41.00; Thence South 19°19'31" East a distance of 343.00 feet to Station 90974+84.00; Thence South 26°58'01" West a distance of 1795.90 feet to Station 90992+79.89, a point on the North line of said Section 07 from which the North Quarter Corner of said Section 07 bears South 89°18'16" East a distance of 343.41 feet; Thence continuing South 26°58'01" West a distance of 497.10 feet to Station 90997+77.00; Thence South 34°10'14" West a distance of 2191.00 feet to Station 91019+68.00; Thence South 36°27'29" West a distance of 912.00 feet to Station 91028+80.00; Thence South 10°19'32" East a distance of 253.00 feet to Station 91031+33.00; Thence South 33°07'06" West a distance of 697.84 feet to Station 91038+30.83, a point on the East line of Township 18 North, Range 18 West, Section 12 from which the Southeast Corner of said Section 12 bears South 00°26'20" West a distance of 1437.19 feet; Thence continuing South 33°07'06" West a distance of 1706.49 feet to Station 91055+37.33, a point on the North line of said Section 13 from which the Northeast Corner of said Section 13 bears South 89°30'34" East a distance of 921.40 feet; Thence continuing South 33°07'06" West a distance of 1907.67 feet to Station 91074+45.00; Thence South 58°37'37" West a distance of 265.00 feet to Station 91077+10.00; Thence South 32°48'57" West a distance of 848.00 feet to Station 91085+58.00; Thence South 33°52'25" West a distance of 3136.00 feet to Station

91116+94.00; Thence South 52°46'29" West a distance of 316.00 feet to Station 91120+10.00; Thence South 32°38'38" West a distance of 5.94 feet to Station 91120+15.94, a point on the North line of said Section 24 from which the Northwest Corner of said Section 24 bears North 89°30'14" West a distance of 674.83 feet; Thence continuing South 32°38'38" West a distance of 782.05 feet to Station 91127+98.00; Thence South 15°10'52" East a distance of 336.00 feet to Station 91131+34.00; Thence South 33°06'59" West a distance of 647.63 feet to Station 91137+81.63, a point on the East line of said Section 23 from which the East Quarter Corner of said Section 23 bears South 00°28'56" West a distance of 1108.83 feet; Thence continuing South 33°06'59" West a distance of 2539.37 feet to Station 91163+21.00; Thence South 43°05'59" West a distance of 710.00 feet to Station 91170+31.00; Thence South 33°12'25" West a distance of 1291.14 feet to Station 91183+22.13, a point on the North line of said Section 26 from which the North Quarter Corner of said Section 26 bears North 89°28'34" West a distance of 92.20 feet; Thence continuing South 33°12'25" West a distance of 18.86 feet to Station 91183+41.00; Thence South 26°45'21" West a distance of 1441.00 feet to Station 91197+82.00; Thence South 34°50'18" West for a distance of 2218.00 feet to Station 91220+00.00 and the Point of Terminus from which the West Quarter Corner of said Section 26 bears North 58°27'50" West a distance of 971.21 feet. Parcel No. RCH 9B-Tribal Trust-01(T) is approximately 51,759.64 feet (9.80 miles) in length, and contains 80.59 acres more or less.

- (2) **Description - TCE - Parcel No. RCH 10-Tribal Trust-01(T):** Reach 10 TCE will be approximately 5,544 feet (1.05 miles) in length, and of varying width, containing 6.35 acres more or less. The Reach 10 pipeline will begin at Station 10003+58.44, located in Section 26, Township 18 North, Range 18 West, and will terminate at Station 10059+02.44, located in Section 34, Township 18 North, Range 18 West, N.M.P.M., McKinley County, New Mexico.

Easement Type, Size and Purpose: Parcel No. RCH 10-Tribal Trust-01(T), a Temporary Construction Easement (TCE), is described as being a strip of land approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less. The TCE will supplement the working space provided by the Permanent ROW, for the construction of a water transmission pipeline with appurtenances thereto.

Across the following described Navajo Tribal Trust Lands: Parcel No. RCH 10-Tribal Trust-01(T) being a parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 26, 27, and 34, Township 18 North, Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. Parcel No. RCH 10-Tribal Trust-01(T) is illustrated on ROW Drawing No. 1695-529-60113, and Plan and Profile Drawing No. 1695-D-T24015 (CD), attached hereto and by reference made a part hereof.

TCE - Parcel No. RCH 10-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60113: A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. See ROW Calculations for Block 9 through 11 (CD), that lists the aliquot descriptions for Reach 10(T), and Table of S,T,R - Rch 9 through 11 that shows the length of each Reach from station to station, each attached hereto, and by reference are made a part hereof.

Reach 10 TCE being described as a strip of land being 150 feet wide, lying 75 feet each side, from Station 10003+58.44 to Station 10035+00.00; Thence being 120 feet wide, lying 75 feet left and 45 feet right from Station 10035+00.00 to Station 10043+20.00, the TCE being reduced to avoid a cultural resource site; Thence being 95 feet wide, lying 55 feet left and 40 feet right from Station 10043+20.00 to Station 10059+02.44 of the pipeline centerline, the TCE being reduced to avoid a cultural resource site. Reclamation requests a varying width of said TCE in order to avoid cultural resources occurring in the area.

Parcel No. RCH 10-Tribal Trust-01(T) is approximately 5,544 feet (1.05 miles) in length, and contains 6.35 acres more or less.

Reach 10 will be joined to the NGWSP Pumping Plant No. 7 at Station 10059+02.44. ROW Drawing No. 1695-529-60113 illustrates the Reach 10 pipeline alignment, and Plan and Profile Drawing No. 1695-D-T24015 (CD), illustrates the alignment and the locations of ancillary appurtenances. Reach 10 TCE will contain 6.35 acres, more or less.

Legal Description of TCE – Parcel No. RCH 10-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60113:

The Point of Beginning being Reach 10 Station 10003+58.44 from which the West Quarter Corner of said Section 26 bears North 58°27'50" West a distance of 971.21 feet; Thence, from the Point of Beginning South 34°50'20" West a distance of 731.56 feet to Station 10010+90.00; Thence South 12°11'00" West a distance of 750.00 feet to Station 10018+40.00; Thence South 35°11'00" West a distance of 175.42 feet to Station 10020+15.43, a point on the East line of said Section 27 from which the Southeast Corner of Section 27 bears South 00°28'10" West a distance of 712.91 feet; Thence continuing South 35°11'00" West a distance of 866.69 feet to Station 10028+82.11, a point on the North line of said Section 34 from which the Northeast Corner of said Section 34 bears South 89°28'26" East a distance of 493.56 feet; Thence continuing South 35°11'00" West a distance of 1127.89 feet to Station 10040+10.00; Thence South 51°27'20" West a distance of 357.00 feet to Station 10043+67.00; Thence South 32°49'58" West a distance of 1320.15 feet to Station 10056+87.15; Thence South 56°46'18" East a distance of 215.29 feet to Station 10059+02.44 and the Point of Terminus, which is Reach 11 Station 11056+10.00, from which the East Quarter Corner of said Section 34 bears South 56°46'18" East a distance of 1955.70 feet. Parcel No. RCH 10-Tribal Trust-01(T) is approximately 5,544 feet (1.05 miles) in length, and contains 6.35 acres more or less.

- (3) **Description - TCE - Parcel No. RCH 11-Tribal Trust-01(T):** Reach 11 TCE will be approximately 22,620 feet (4.28 miles) in length, and of varying width, containing 31.93 acres more or less. The Reach 11 pipeline will begin at Station 11053+60.00, located in Section 34, Township 18 North, Range 18 West, and will terminate at Station 11279+80.00, located in Section 17, Township 17 North, Range 18 West, N.M.P.M., McKinley County, New Mexico.

Easement Type, Size and Purpose: Parcel No. RCH 11-Tribal Trust-01(T), a Temporary Construction Easement (TCE), is described as being a strip of land approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less. The TCE will supplement the working space provided by the Permanent ROW, for the construction of a water transmission pipeline with appurtenances thereto.

Across the following described Navajo Tribal Trust Lands: Parcel No. RCH 11-Tribal Trust-01(T) being a parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Section 34, Township 18 North, Range 18 West, and Sections 03, 04, 09, 16, and 17, Township 17 North, Range 18 West, New Mexico Principle Meridian, McKinley County, New Mexico. Parcel No. RCH 11-Tribal Trust-01(T) is illustrated on ROW Drawing No. 1695-529-60112, and Plan and Profile Drawing No.'s 1695-D-T19087 through 1695-D-T19093 (CD), attached hereto and by reference made a part hereof.

TCE - Parcel No. RCH 11-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60112: A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West, New Mexico Principle

Meridian, McKinley County, New Mexico. See ROW Calculations for Block 9 through 11 (CD), that lists the aliquot descriptions for Reach 11(T), and Table of S,T,R - Rch 9 through 11 that shows the length of each Reach from station to station, attached hereto, and that by reference are made a part hereof.

Reach 11 TCE being described as a strip of land being 150 feet wide, lying 75 feet each side, from Station 11053+60.00 to Station 11060+00.00, thence being 135 feet wide, lying 60 feet right and 75 feet left from Station 11060+00.00 to Station 11063+65.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11063+65.00 to Station 11072+50.00; thence being 115 feet wide, lying 40 feet left and 75 feet right from station 11072+50.00 to Station 11074+60.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11074+60.00 to Station 11080+00.00; thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11080+00.00 to Station 1108+50.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11081+00.00 to Station 11089+00.00; thence being thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11089+00.00 to Station 11091+00.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11091+00.00 to Station 11174+50.00; Thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11174+50.00 to Station 11177+00.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11177+00.00 to Station 11193+50.00; thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11193+50.00 to Station 11195+50.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 150 feet each side from Station 11195+50.00 to Station 11208+95.00; thence being 80 feet wide, lying 40 feet each side from Station 11208+95.00 to Station 11224+85.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11224+85.00 to Station 11252+10.00; thence being 140 feet wide, lying 75 feet right and 65 feet left from Station 11252+10.00 to Station 11253+50.00, the TCE being reduced to avoid a cultural resource site; thence being 150 feet wide, lying 75 feet each side from Station 11253+50.00 to Station 11269+00.00; thence being 130 feet wide, lying 65 feet right and 65 feet left from Station 11269+00.00 to Station 11279+80.00 of the pipeline centerline, the TCE being reduced to avoid a cultural resource site. Reclamation requests a varying width of said Temporary Construction Easement in order to avoid cultural resources occurring in the area. The Reach 11 TCE will contain 31.93 acres, more or less.

Reach 11 will be joined to the NGWSP Reach 12A pipeline at Station 11279+80.00. ROW Drawing No. 1695-529-60112 illustrates the Reach 11 pipeline alignment, and Plan and Profile Drawing No.'s 1695-D-T19087 through 1695-D-T19093 (CD), illustrate the alignment and the locations of ancillary appurtenances.

Legal Description of TCE – Parcel No. RCH 11-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60112:
The Point of Beginning being Reach 11 Station 11053+60.00 from which the East Quarter Corner of said Section 34 bears South 75°00'06" East a distance of 1863.02 feet; Thence, from the Point of Beginning South 33°13'42" West a distance of 296.19 feet to Station 11056+56.19; Thence South 63°13'42" West a distance of 393.81 feet to Station 11060+50.00; Thence South 33°13'42" West a distance of 270.00 feet to Station 11063+20.00; Thence South 26°33'58" East a distance of 300.00 feet to Station 11066+20.00; Thence South 58°20'37" West a distance of 460.00 feet to Station 11070+80.00; Thence South 37°03'05" West a distance of 510.00 feet to Station 11075+90.00; Thence South 32°59'14" West a distance of 1810.10 feet to Station 11094+00.10, a point on the North line of said Township 17 North, Range 18 West, Section 03, from which the Northwest Corner of said Section 03 bears North 89°28'02" West a distance of 1293.21 feet; Thence continuing South 32°59'14" West a distance of 2405.88 feet to Station 11118+05.98, a point on the East line of said Section 04 from which the East Quarter Corner of said Section 04 bears South 00°28'20" West a distance of 604.72 feet; Thence continuing South 32°59'14" West a distance of

3841.38 feet to Station 11156+47.36, a point on the North line of said Section 09 from which the North Quarter Corner of said section 09 bears North 89°22'11" West a distance of 574.69 feet; Thence continuing South 32°59'14" West a distance of 3372.64 feet to Station 11190+20.00; Thence South 10°11'55" West a distance of 730.00 feet to Station 11197+50.00; Thence South 33°19'41" East a distance of 480.00 feet to Station 11202+30.00; Thence South 37°23'08" East a distance of 700.00 feet to Station 11209+30.00; Thence South 09°43'39" West a distance of 771.66 feet to Station 11217+01.66, a point on the North line of said Section 16 from which the North Quarter Corner of said Section 16 bears South 89°21'39" East a distance of 787.48 feet; Thence continuing South 09°43'39" West a distance of 1428.34 feet to Station 11231+30.00; Thence South 79°07'36" West a distance of 660.00 feet to Station 11237+90.00; Thence North 86°24'45" West a distance of 976.97 feet to Station 11247+66.97, a point on the East line of said Section 17 from which the East Quarter Corner bears South 00°29'15" West a distance of 1148.42 feet; Thence continuing North 86°24'45" West a distance of 723.03 feet to Station 11254+90.00; Thence South 31°55'40" West a distance of 750.00 feet to Station 11262+40.00; Thence South 26°54'07" West a distance of 740.00 feet to Station 11269+80.00; Thence South 58°59'07" West a distance of 280.00 feet to Station 11272+60.00; Thence South 01°10'28" East a distance of 720.00 feet to Station 11279+80.00, the Point of Terminus from which the South Quarter Corner of said Section 17 bears South 31°08'00" West a distance of 1920.42 feet.

Parcel No. RCH 11-Tribal Trust-01(T) is approximately 22,620 feet (4.28 miles) in length, and contains 31.93 acres more or less.

Landowner Consent: The Navajo Nation gave its concurrence to permission to survey the San Juan Lateral of the NGWSP on August 14, 2009. On March 1, 2010, the Bureau of Indian Affairs, Fort Defiance Agency granted Reclamation Permission to Survey over, across and through Reaches 9, 10, 11, and 12 of the San Juan Lateral, for the purpose of conducting surveys and studies to determine a final pipeline alignment. The final pipeline alignment across said Reaches is illustrated on the alignment map of Reach 9 through 11, dated December 6, 2016, and the aforementioned ROW and Plan and Profile Drawings attached hereto (CD), and by reference are made a part hereof.

Reclamation hereby requests the consent of the Navajo Nation to a grant of Temporary Construction Easement (TCE) for Reaches 9 through 11, over, across and through the aforementioned Tribal Trust Lands, and that in granting said consent, the Navajo Nation waives compensatory consideration of the fair market value of the easement, and agrees to forego the requisite appraisal of the TCE.

The total Reach 9-11 TCE requested in this application is approximately 78,169-feet in length (14.80 miles), and will contain 118.88 acres, more or less.

Environmental Clearance: The Record of Decision (ROD) and Final Environmental Impact Statement (FEIS) (Bureau of Reclamation 2009) for the Navajo-Gallup Water Supply Project, is attached hereto (CD) and by reference is made a part hereof. The ROD and FEIS can also be viewed on the world-wide web at <http://www.usbr.gov/uc/envdocs/eis/navgallup/FEIS/index.html>. The alignment of Reaches 9 through 11 has not changed substantially from what was presented in the FEIS and ROD.

As discussed with Pamela A. Kyselka, Wildlife Biologist, Navajo Natural Heritage Program, Department of Fish and Wildlife, on December 7, 2016, Reclamation will conduct a NEPA Sufficiency Review over Reaches 9 through 11 to determine if the proposed action would have any new potentially significant impacts, not already discussed and considered in previous NEPA documentation.

Cultural Resources Compliance: Please see letter dated April 25, 2016 that includes a summary of the Class III Inventory Report and eligibility determinations for Reaches 9 through 11, attached hereto, and by reference made apart hereof. The survey was conducted by PaleoWest under the authority of Navajo Nation Cultural Resources Permit No. B13543. The inventory identified a total of 292 cultural resources, including isolated occurrences, archaeological sites, in-use sites, Navajo Traditional Cultural Properties, and Jishchaa' within the Reach 9 through 11 Area of Potential Effect.

Reclamation submitted said report to the Navajo Nation Historic Preservation Department and concurrence was received from the Tribal Historic Preservation Officer on August 30, 2016, said letter is attached hereto, and by reference, made a part hereof. The report was also consulted upon with all NGWSP signatory and consulting parties in compliance with the Programmatic Agreement for the NGWSP. Following the completion of consultation with Navajo Nation and the NGWSP Programmatic Agreement parties, a final version of the report, with the changes noted in the Navajo Nation's August 30, 2016, concurrence, was submitted to all participants on October 11, 2016.

Per the internal BIA memo from the Supervisory Environmental Protection Specialist, Branch of Environmental Quality, Act Compliance and Review, written to the Supervisory Civil Engineer, Engineering & Technical Support Division, dated October 29, 2015, attached hereto and by reference made a part hereof, the subject report, with concurrence from the Navajo Nation Historic Preservation Department, is considered acceptable for compliance with the National Historic Preservation Act (NHPA).

Waiver of Title 25, Code of Federal Regulations, 25 C.F.R. Part 169.103 (Bonding Requirements): The Bureau of Indian Affairs (BIA), in cooperation with the Bureau of Reclamation and with the support of the Navajo Nation, requested a waiver from the Assistant Secretary – Indian Affairs under 25 C.F.R. § 1.2 and 25 C.F.R. Part 169 § 169.103 bonding requirement, for all NGWSP ROW's.

Said waiver of Title 25, *Code of Federal Regulations*, 25 C.F.R. Part 169.103 (Bonding Requirements) was approved by the Principle Deputy Assistant Secretary – Indian Affairs in a memo dated November 22, 2016. A copy of said waiver is attached (CD), and by reference is made a part hereof.

The Bureau of Reclamation, an agency of the Federal Government, hereby assures that it will pay damages promptly, when they are sustained, under the provisions of the Federal Tort Claims Act (June 25, 1948, Ch. 646, Title IV, 62 Stat. 982, "28 U.S.C. Pt. VI Ch.171" and 28 U.S.C. Part 1346(b)).

SAID APPLICANT UNDERSTANDS AND EXPRESSLY AGREES TO THE FOLLOWING STIPULATIONS:

1. To construct and maintain the right-of-way in a workmanlike manner.
2. ~~To pay all damages and compensation, in addition to the deposit made pursuant to 169.4, determined by the Secretary to be due the landowners and authorized users and occupants of the land due to the survey, granting, construction and maintenance of the right of way.~~
3. ~~To indemnify the landowners and authorized users and occupants against any liability for loss of life, personal injury and property damage arising from the construction, maintenance, occupancy or use of the lands by the applicant, his employees, contractors and their employees, or subcontractors and their employees.~~
4. To restore the lands as nearly as may be possible to their original condition upon the completion of construction, to the extent compatible with the purpose for which the right-of-way was granted.
5. To clear and keep clear the lands within the right-of-way to the extent compatible with the purpose of the right-of-way, and dispose of all vegetative and other material cut, uprooted or otherwise accumulated during construction and maintenance of the project.

6. To take soil and resource conservation protection measures, including weed control, on the land covered by the right-of-way.
7. To do everything reasonable within its power to prevent and suppress fires on or near the lands to be occupied under the right-of-way.
8. To build and repair such roads, fences and trails as may be destroyed or injured by construction work and to build and maintain necessary and suitable crossings for all roads and trails that intersect the works constructed, maintained, or operated under the right-of-way.
9. That upon revocation or termination of the right-of-way, the applicant shall, so far as in reasonably possible, restore the land to its original condition. The determination of "reasonably possible" is subject to Secretary's approval.
10. To at all times keep the Secretary informed of its address, and in case of corporations, of the address of its principal place of business and the names and addresses of its principal officers.
11. The applicant will not interfere with the use of the lands by or under the authority of the landowners, for any purpose not inconsistent with the primary purpose for which the right-of-way is granted.
12. During the term of this Grant of Easement, if any previously unidentified cultural resources are discovered within the easement area, work should be halted immediately and the BIA and/or Tribal Contractor should be contacted immediately.

THE APPLICANT FURTHER STIPULATES AND EXPRESSLY AGREES AS FOLLOWS:

To conform and to abide by all applicable requirements with respect to the right-of-way herein applied for. The applicant agrees to conform to and abide by the rules, regulations, and requirements contained in the *Code of Federal Regulations*, Title 25 Indians, Part 169, as amended, and by reference includes such rules, regulations and requirements as a part of this application to the same effect as if the same were herein set out in full.

IN WITNESS WHEREOF, DOUG DOCKTEE, P.E., ASST. CONST. ENG. has caused this instrument to be

executed this 22nd day of DECEMBER, 2016.



 Witness



 Barry Longwell
 Construction Engineer
 U.S. Bureau of Reclamation
 Four Corners Construction Office
 1235 La Plata Hwy.
 Farmington, NM, 87401

ACTING FOR

Required Supporting Documents:

1. () ~~Form 5-104b.~~
2. () ~~Evidence of Authority of Officers to execute Papers (ROW Form 94-4).~~
3. () ~~Evidence of good faith and financial responsibility.~~
4. () ~~Double estimated damages (deposit - 25 CFR 169.4).~~
5. () ~~State certified corporate charter or articles of incorporation.~~
6. () ~~Certified copy of resolution or by laws of the corporation authorizing the filing of the application.~~
7. () ~~State certification that the applicant is authorized to conduct business in the State of xxx.~~

8. () ~~Certified copy of the articles of partnership or association.~~

9. (x) **Other attachments**

- (x) Application for Permanent Easement for Right-of-Way
- (x) Application for Temporary Construction Easement
- (x) ROW Drawings - Reach 9B - No. 1695-529-60114 and No. 1695-529-60115
- (x) ROW Drawing - Reach 10 - No. 1695-529-60113
- (x) ROW Drawing - Reach 11 - No. 1695-529-60112
- (x) Drawings - Plan & Profile: No. 1695-D-T27888 through No. 1695-D-T19093
- (x) ROW Description - Reach 9B
- (x) ROW Description - Reach 10
- (x) ROW Description - Reach 11
- (x) Map - NGWSP - Drawing No. 1695-529-537 - April 28, 2015
- (x) Map - Reach 9B-11 Alignment
- (x) Map - Reach 9B Alignment
- (x) Map - Reach 10 Alignment
- (x) Map - Reach 11 Alignment
- (x) Navajo Nation Executive Order No. 03-2012
- (x) Chapter Resolution - Coyote Canyon
- (x) Chapter Resolution - Mexican Springs
- (x) Chapter Resolution - Naschitti
- (x) Chapter Resolution - Tohatchi
- (x) Chapter Resolution - Twin Lakes
- (x) TSR - Reach 9 through 11 - Dated 08-04-16
- (x) Letter - Permission to Survey Reaches 3 through 9
- (x) Letter - Permission to Survey Reaches 9 through 12
- (x) Letter - Waiver of 25 CFR Part 169.103 – Dated 11-22-16
- (x) Final Environmental Impact Statement and Record of Decision can be viewed at:
<http://www.usbr.gov/uc/envdocs/eis/navgallup/FEIS/index.html>.
- (x) FEIS - Volume 1, Volume 2, and Volume 3 (CD)
- (x) FEIS - Record of Decision (ROD) Dated 2009 (CD)
- (x) Phase I ESA - Reach 9
- (x) Phase I ESA - Reach 10
- (x) Phase I ESA - Reach 11
- (x) Class III Inventory Report and Concurrence of Eligibility Determinations - Dated 04-25-16
- (x) Class III Inventory and Determination of Eligibility - Final Report - NHPA - Dated 10-11-16
- (x) Memorandum - Acceptable NEPA and NHPA Compliance Documents - Dated 10-29-15
- (x) ROW Calculations - Reach 9B-11 (Station to Station)
- (x) Block 9-11 Tribal Trust – Summary – ROW and TCE Length and Acreage by Reach
- (x) Table - Rch 9-11 – Summary of ROW and TCE Distance and Acreage by Section, Township, Range
- (x) CD - Rch 9-11 Documents



United States Department of the Interior

BUREAU OF RECLAMATION
Upper Colorado Region
Four Corners Construction Office
1235 La Plata Highway
Farmington, NM 87401

IN REPLY REFER TO:

FCCO-202
LND-3.00

DEC 23 2016

Mr. Howard P. Draper
Program and Projects Specialist
Navajo Land Department
Project Review Section
Navajo Nation Division of Natural Resources
P.O. Box 2249
Window Rock, AZ 86515

Subject: Applications for Consent to a Grant of Right-of-Way (ROW) and Temporary Construction Easement (TCE) - Tribal Trust Land - Reaches 9 through 11 – San Juan Lateral - Navajo-Gallup Water Supply Project, McKinley County, New Mexico

Dear Mr. Draper:

The Bureau of Reclamation hereby requests tribal consent to a grant of ROW and TCE over, across and through the subject Navajo Nation Tribal Trust Lands located in the area of Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Chapters in McKinley County, New Mexico. The Bureau of Indian Affairs (BIA) requires that said consent be obtained by Reclamation and that it be submitted with applications for ROW and TCE. Enclosed are the applications for said consent, and pertinent documents on CD format that are respectfully submitted for your review and processing.

Reclamation requests that all customary fees be waived as allowed by the Omnibus Public Land Management Act of 2009, Title X, Part III (Public Law 111-11).

Also, in order to allow for additional processing by the BIA, Reclamation requests that consent to the grant of this ROW be received on or before July 1, 2017.

If you have any questions, please contact Mike Braman at 505-324-5024.

Sincerely,

ACTING FOR: 
Barry Longwell
Construction Engineer

cc: See next page.

Subject: Applications for Consent to a Grant of Right-of-Way (ROW) and Temporary Construction

cc: Ms. Bidtah Becker, Executive Director
Navajo Nation Division of Natural Resources
P.O. Box 9000
Window Rock, AZ 86515

Mr. Ray Benally, Director
Navajo Nation Department of Water Resources
P.O. Box 678
Ft. Defiance, AZ 86504

Mr. Jason John, Branch Director
Navajo Nation Department of Water Resources
Water Management Branch
P.O. Box 678
Ft. Defiance, AZ 86504
(w/o encls to ea)

RECLAMATION

ALWAYS THINK SAFETY

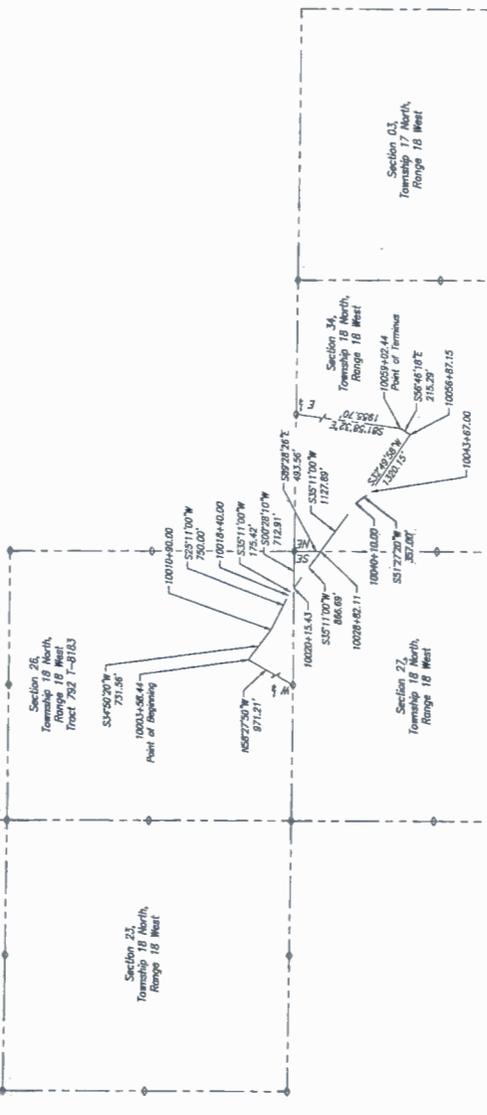
SAN JUAN LATERAL - REACH 10

RIGHT-OF-WAY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW MEXICO

DATE: 11/12/11
BY: [Signature]
PROJECT: [Signature]

MAHADO NATION - TRIBAL
TRUST LAND
PARCELS NOS. RCH
10-TRIBAL TRUST - 01(P)
AND 01(T)
1695-529-60113



NOTE:
Bearings shown on this drawing are developed from the original survey of the San Juan Lateral - Reach 10 (MSR) and are based on measurements of existing monuments. Distances and Station shown are ground (foot). The Grid Factor from NAD83 to NAD23 is 0.999702653004. No measurements will be set.

Maple-Cotton, White-Sunrise, Orange, Peach, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

STATE OF NEW MEXICO
COUNTY OF SAN JUAN
I, [Signature], being duly sworn, depose that I am the Construction Engineer of the Four Corners Construction Office, U.S. Bureau of Reclamation. That the survey of Reach 10, San Juan Lateral, Natchez-Camp and access station located in the county of Alameda, New Mexico, was made under the direction and supervision of the Construction Engineer of the Bureau of Reclamation, and the survey is accurately represented on this map.

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COUNTY OF SAN JUAN
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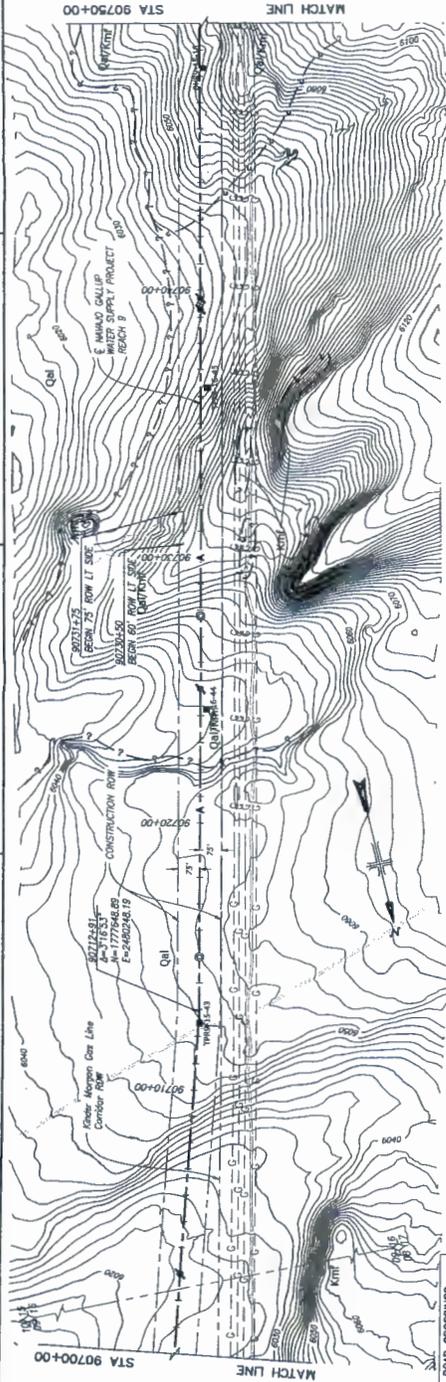
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NOTE FOR DESIGNER ONLY
 SAN JUAN LATERAL REACH 9
 MARIPOSA WATER SUPPLY PROJECT
 TIA, Department of Water Resources
 Bureau of Reclamation
 U.S. Department of the Interior

PLAN AND PROFILE
 STA. 90700+00
 TO
 STA. 90750+00
 1695-D-172868
 SHEET #



NOTES
 1. For General Notes, Symbols, Abbreviations, and Pipe Classifications, see (20000).

6" BLOWOFF WITH MANHOLE
 H/L EL. 6278.8

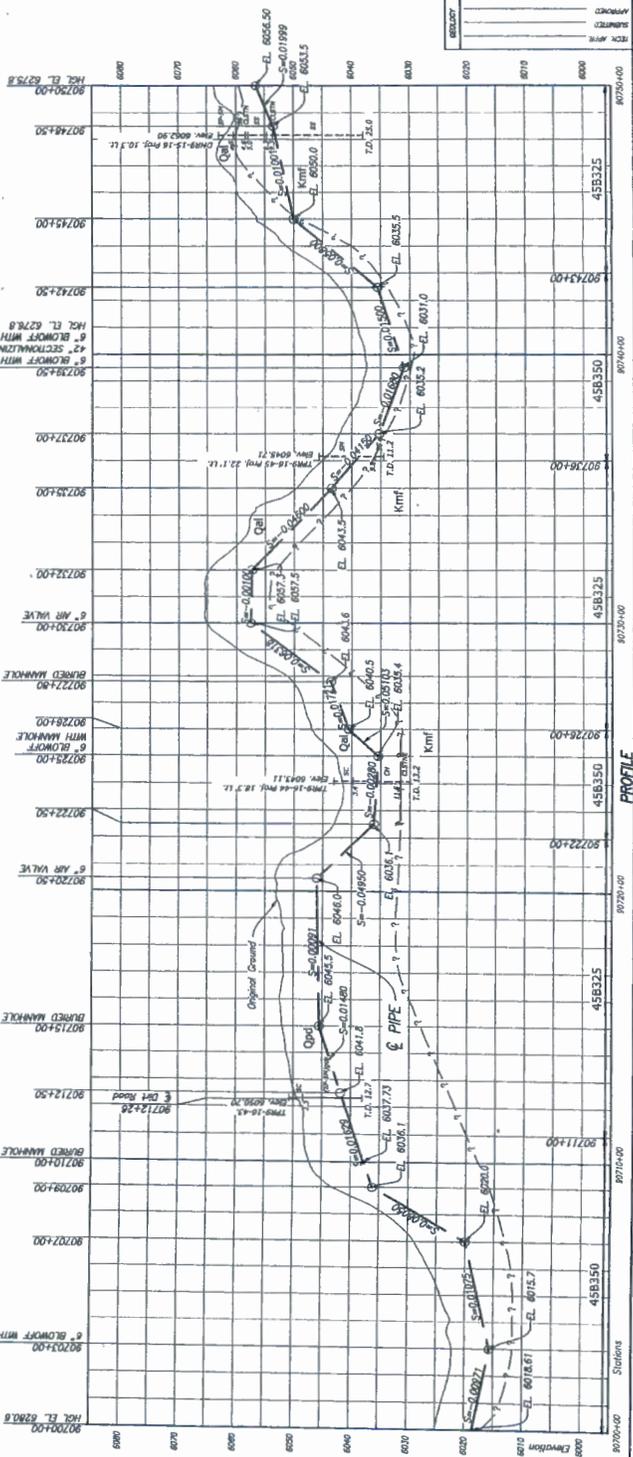
6" BLOWOFF WITH MANHOLE
 H/L EL. 6278.8

6" AIR VALVE

6" BLOWOFF WITH MANHOLE

6" BLOWOFF WITH MANHOLE
 H/L EL. 6280.8

6" BLOWOFF WITH MANHOLE



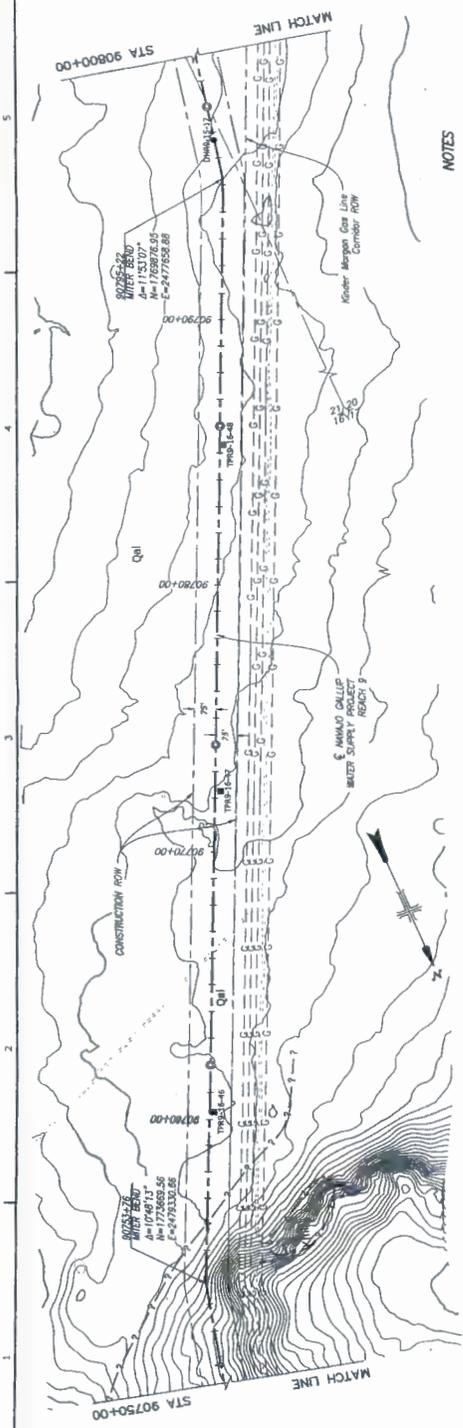
Station	Surface Elevation	Proposed Profile Elevation	Pipe Elevation
90700+00	6280.8	6280.8	6280.8
90703+00	6278.8	6278.8	6278.8
90707+00	6278.8	6278.8	6278.8
90710+00	6278.8	6278.8	6278.8
90714+00	6278.8	6278.8	6278.8
90718+00	6278.8	6278.8	6278.8
90722+00	6278.8	6278.8	6278.8
90726+00	6278.8	6278.8	6278.8
90730+00	6278.8	6278.8	6278.8
90734+00	6278.8	6278.8	6278.8
90738+00	6278.8	6278.8	6278.8
90742+00	6278.8	6278.8	6278.8
90746+00	6278.8	6278.8	6278.8
90750+00	6278.8	6278.8	6278.8

DATE AND TIME SETTING
 11/17/78 11:30 AM
 DRAWN BY
 J. R. BROWN
 CHECKED BY
 J. R. BROWN
 PROJECT NUMBER
 1695-D-172868-10-10-40

ALWAYS THINK SAFETY

SAN JUAN LATERAL - REACH 9
LINE PIPE

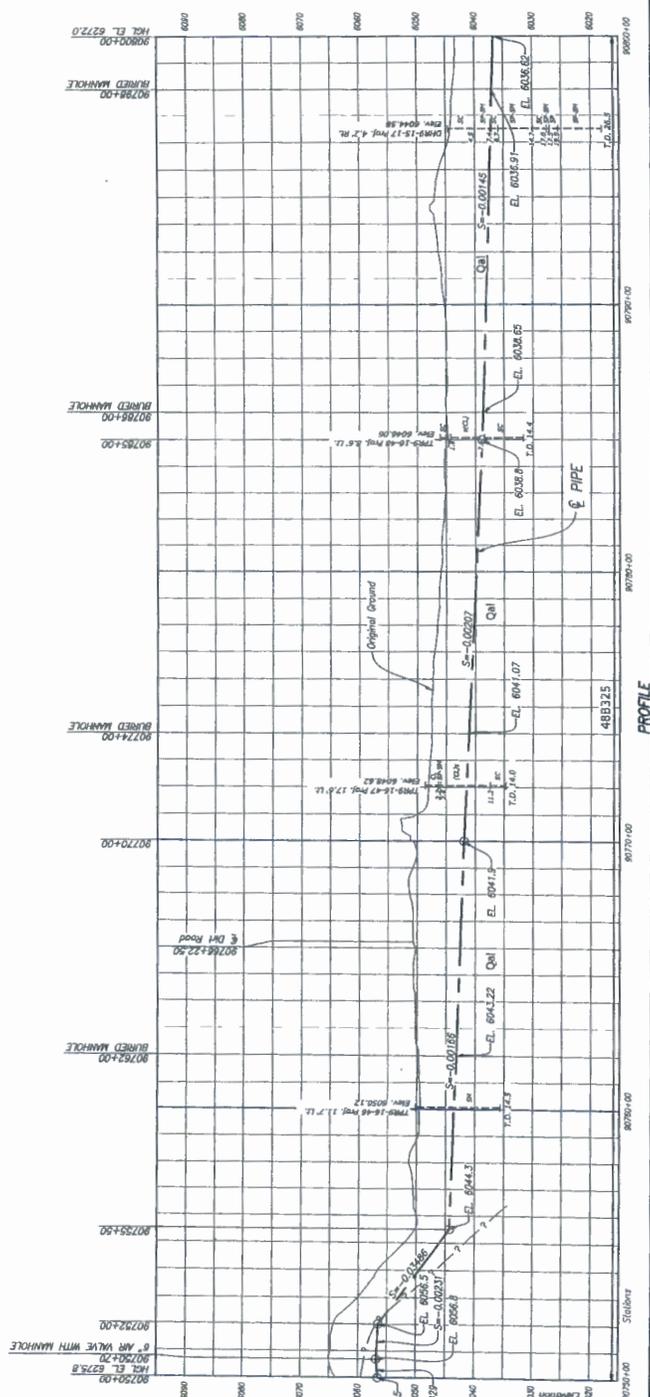
PLAN AND PROFILE
STA. 90750+00
TO
STA. 90800+00
1695-D-T-7988
SHEET 11



NOTES
1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (02000).

PLAN
SCALE OF FEET
1" = 40'

OPEN-CUT ROAD CROSSINGS		
Station	Surveying	Completed (Bearing)
90750+10 TO 90750+35		

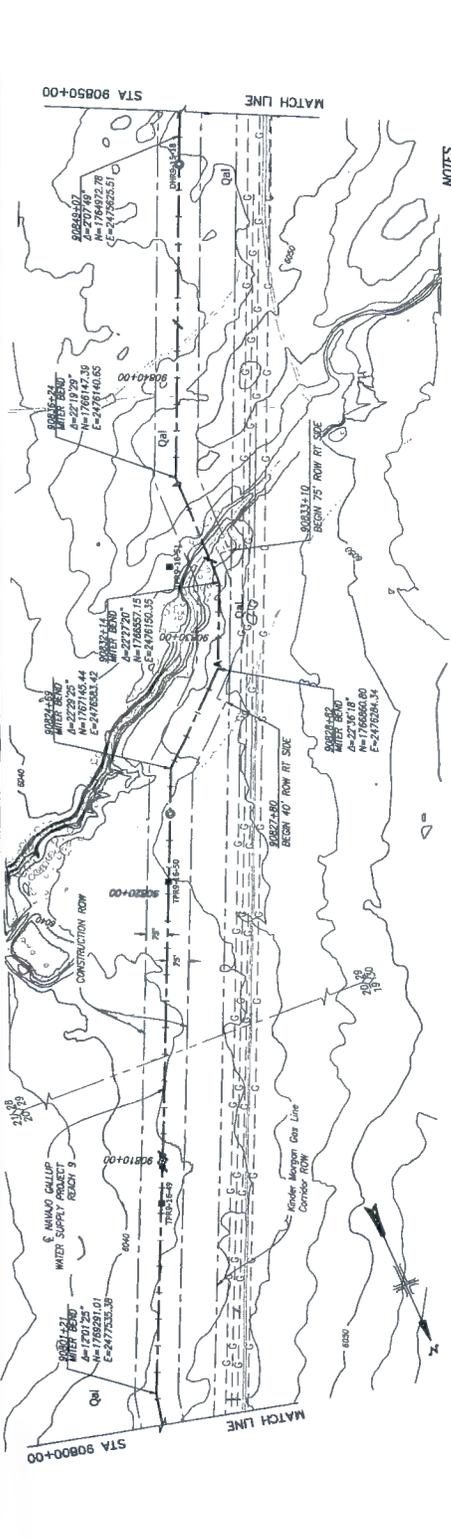


PROFILE
SCALE OF FEET
1" = 40'

DATE AND TIME ACTING
IN CHARGE IS BY
PROJECT NO. 1695-D-T-7988
SHEET 11

ALWAYS THINK SAFETY
SAN JUAN RIVER REACH 9
NOT FOR DISTRIBUTION

PLAN AND PROFILE
STA. 90800+00
TO
STA. 90850+00
1695-D-T27989
SHEET #1

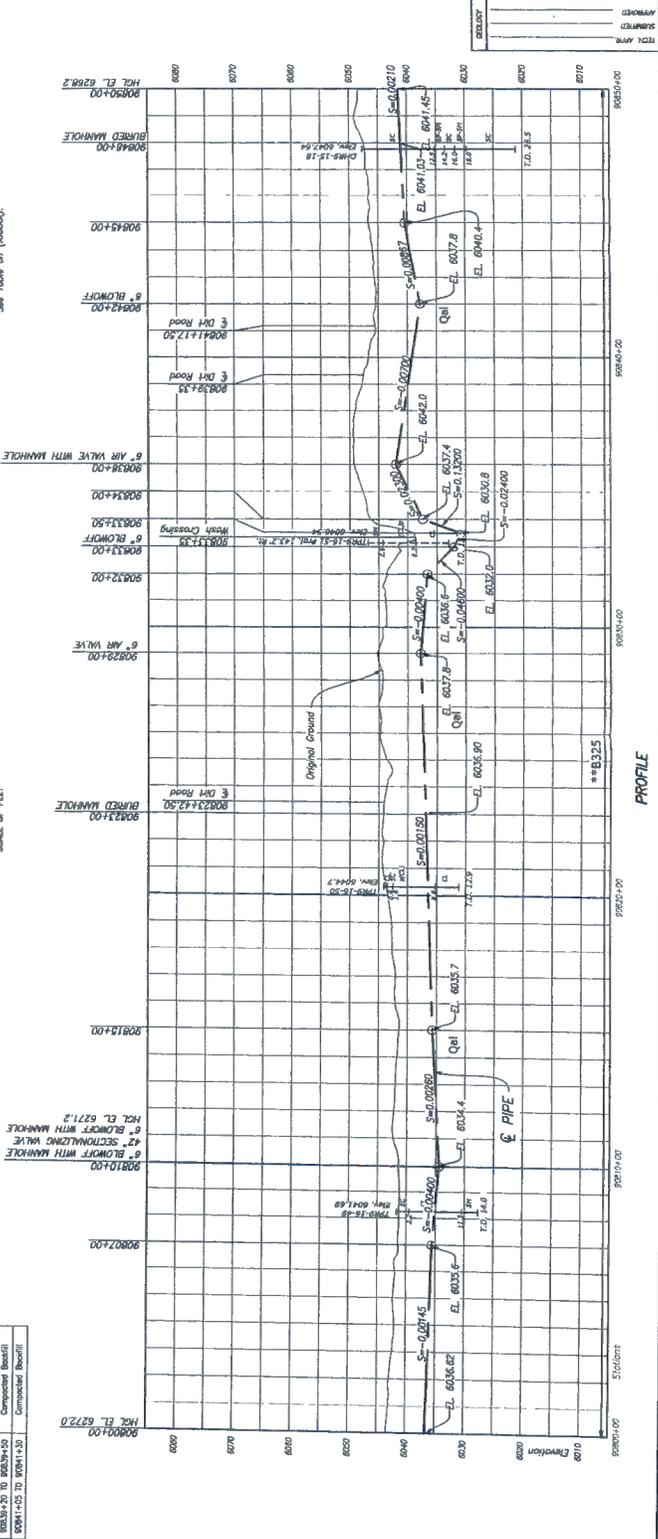


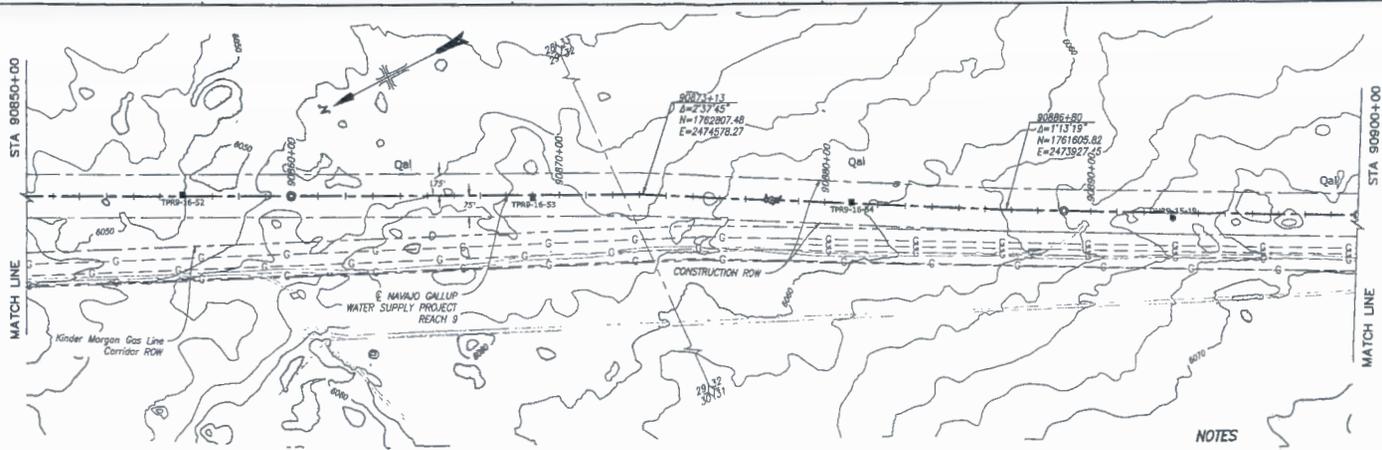
NOTES

1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (222) and (223) sheets as designation are dependent on pipe material type. See Table on (20200).
- 2.

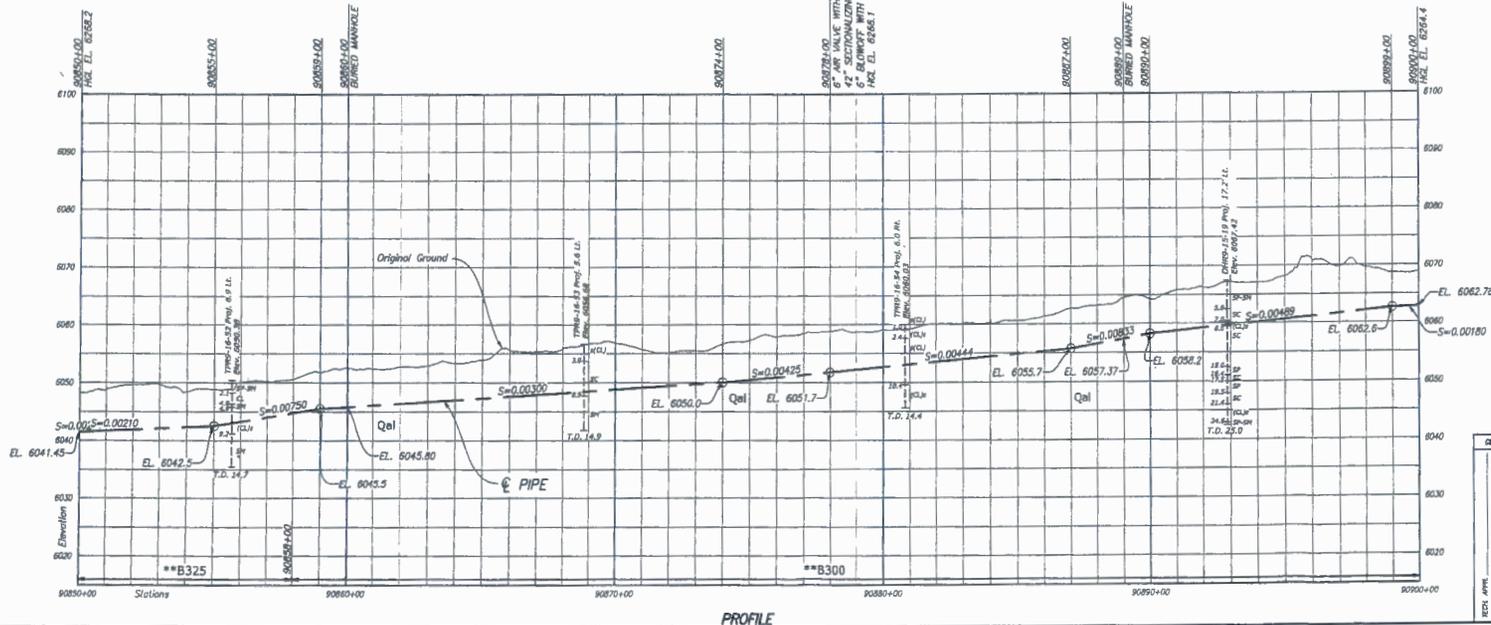


OPEN-CUT ROAD CROSSINGS	
Station	Structure
90811.5 TO 90815.0	Concrete Box
90815.0 TO 90818.0	Concrete Box
90818.0 TO 90821.0	Concrete Box
90821.0 TO 90824.0	Concrete Box





- NOTES**
1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (XXXXX).
 2. Diameters with ** designation are dependent on pipe material type. See Table (XXXXX).

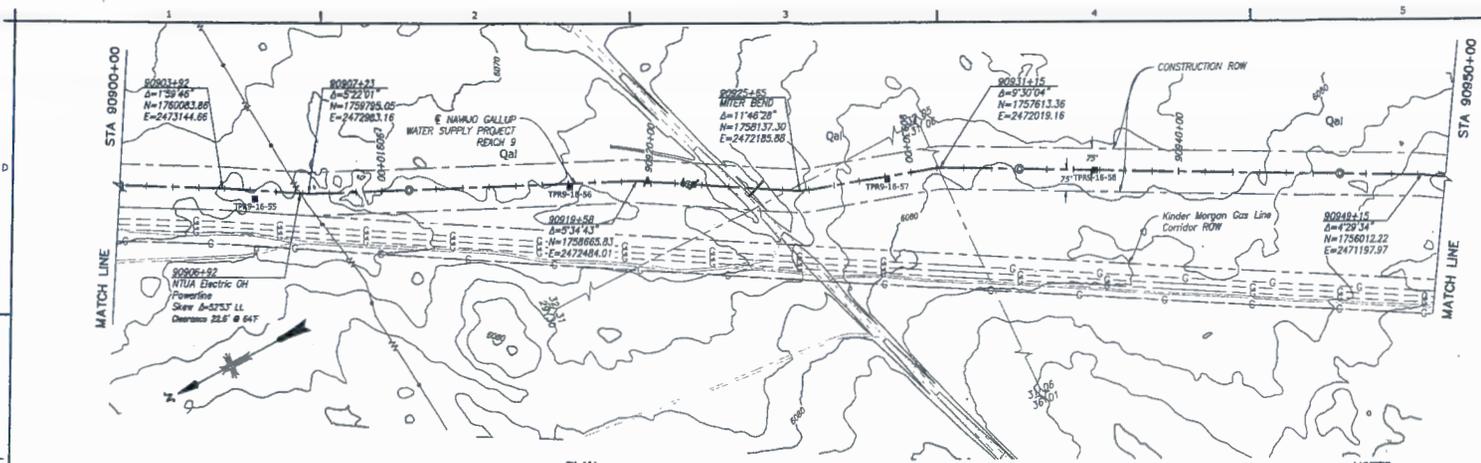


ALWAYS THINK SAFETY
 THE SAFETY OF THE PUBLIC IS THE TOP PRIORITY.
 SAN JUAN LATERAL REACH 9
 LINE PIPE

DESIGNED BY	REVISIONS
CHECKED BY	DATE
APPROVED BY	

PLAN AND PROFILE
 STA 90850+00
 TO
 STA 90900+00
 1695-D-T27990
 SHEET 11

GAS PIPE
 GAS AND FIRE ALERTED
 NOTIFY ALL
 ADVISE OF THE
 REASON FOR THE
 WORK, AND THE
 LOCATION OF THE
 WORK. ADVISE (PHONE)



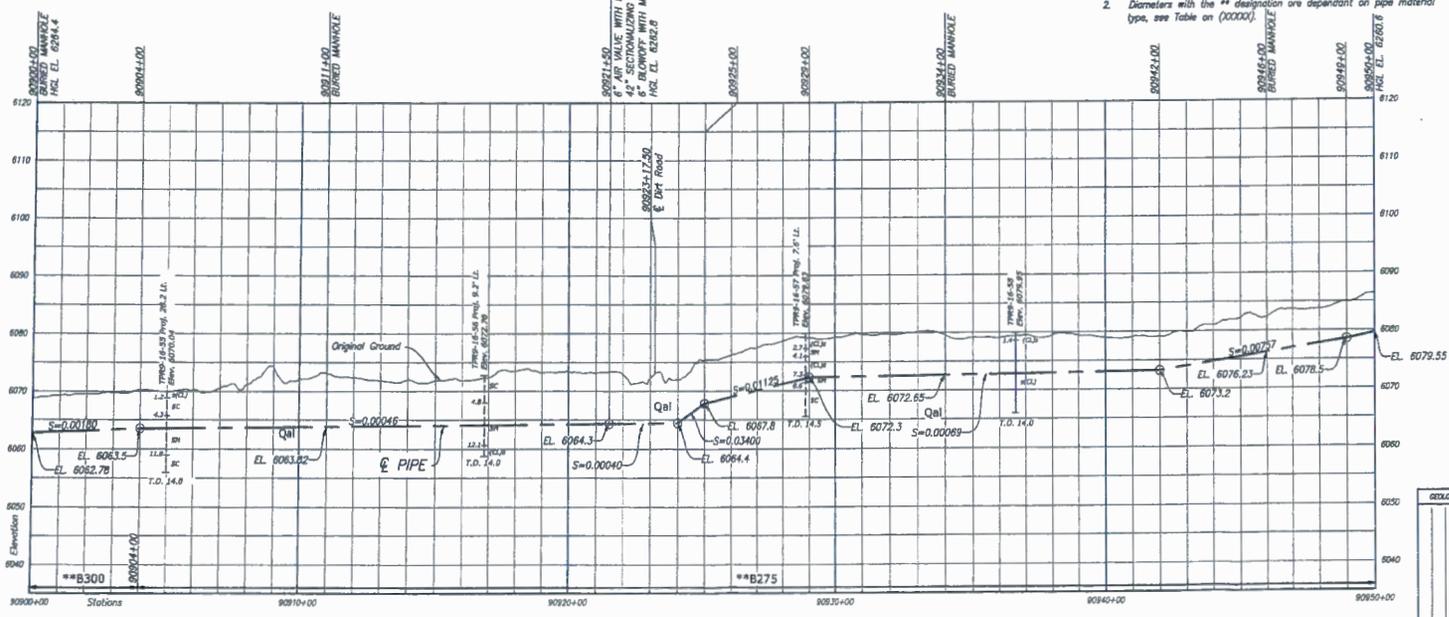
OPEN-CUT ROAD CROSSINGS	
Station	Surface
90822+90 TO 90823+40	Compassion Blvd (R)

PLAN
SCALE OF FEET
0 100 200 300 400

NOTES

1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (00000).
2. Diameters with the ** designation are dependent on pipe material type, see Table on (00000).

DATE AND TIME PLotted
DRAWN BY
CHECKED BY
APPROVED BY
(Name, Address, Phone)

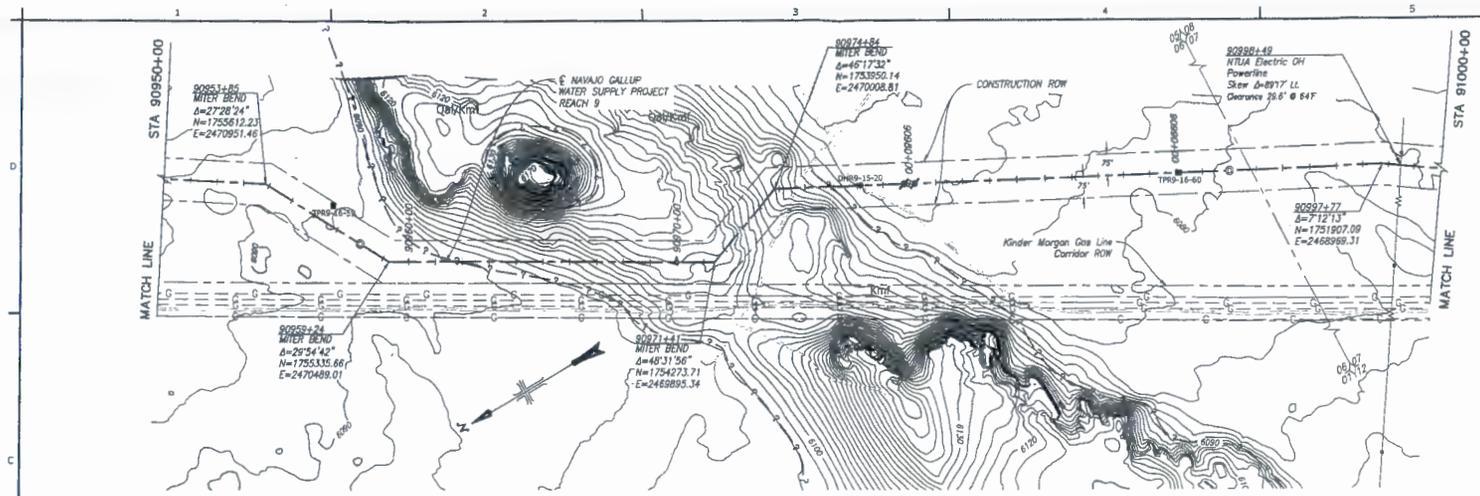


PROFILE

ALWAYS THINK SAFETY
 For information on the latest
 water distribution products
 visit our website at www.reclamation.gov
San Juan Lateral Reach 9
 Not For Distribution

SHAWDON MONAHAN
 DESIGNER
 SHAWDON MONAHAN
 ENGINEERS
 1000 N. 10th St.
 DENVER, CO 80202
 PHONE: 303.733.1100
 FAX: 303.733.1101
 WWW: www.shawdon.com

PROJECT: **1695-D-T27991**
 SHEET: **21**
 TITLE: **PLAN AND PROFILE**
 STA. 90900+00 TO STA. 90950+00



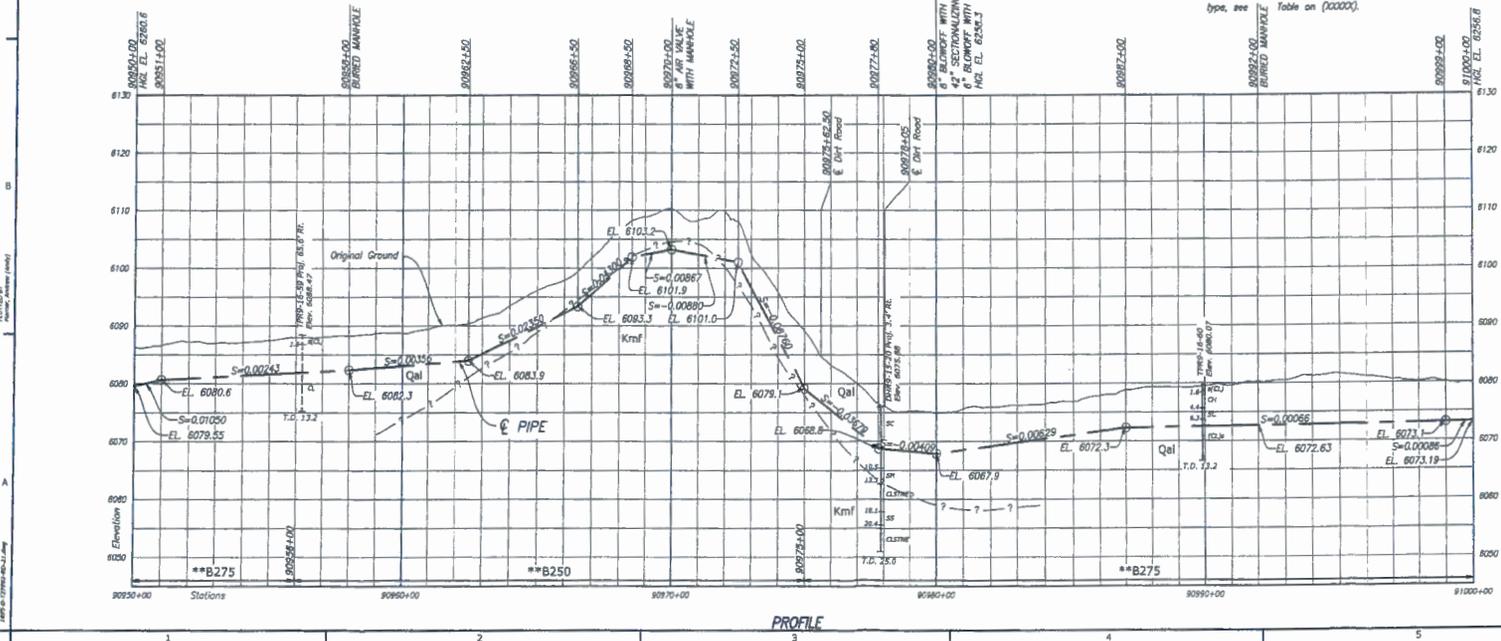
OPEN-CUT ROAD CROSSINGS

Station	Surface
90975+50 TO 90975+75	Compacted Backfill
90977+95 TO 90978+15	Compacted Backfill



NOTES

1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (00000).
2. Diameters with the ** designation are dependent on pipe material type, see (00000).



ALWAYS THINK SAFETY

SAN JUAN LATERAL REACH 9
LINE PIPE

SCHWABER NOMANEN
SCHWABER NOMANEN
DESIGN
REV: WRC
DATE: 08/11/2011
BY: WRC
CHECKED BY: WRC
DATE: 08/11/2011

DATE: 08/11/2011
TIME: 10:00 AM
BY: WRC
CHECKED BY: WRC
DATE: 08/11/2011

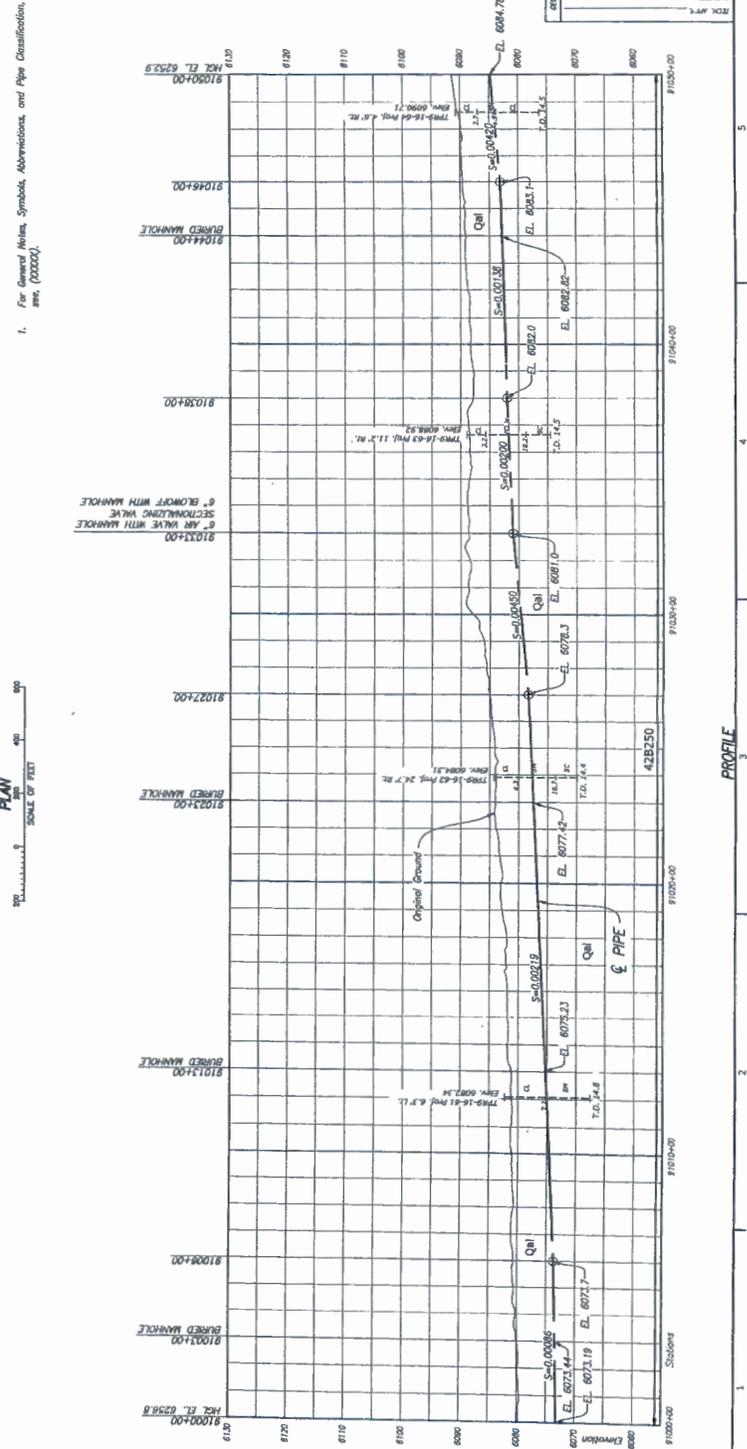
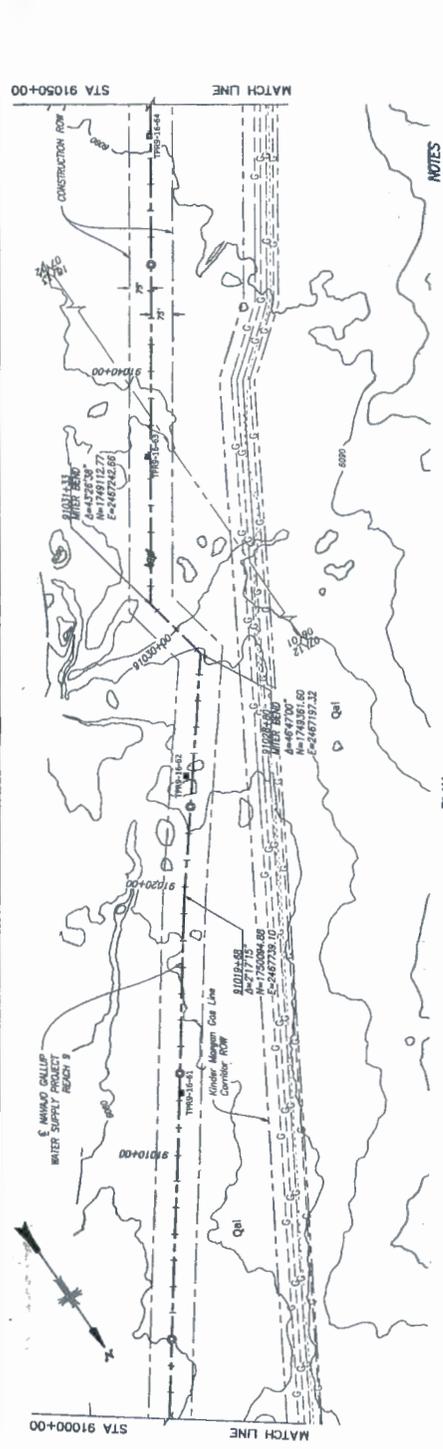
PLAN AND PROFILE
STA. 90950+00
TO
STA. 91000+00
1695-D-T7992
SHEET 21

RECLAMATION
Managing Water and the Land

ALWAYS THINK SAFETY

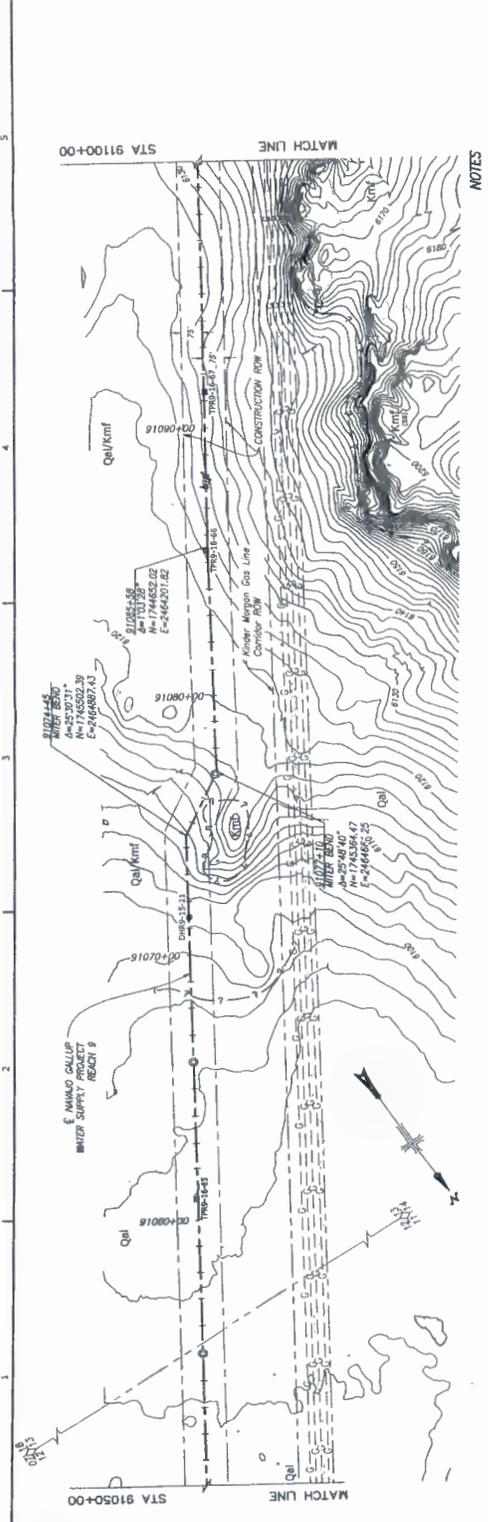
MANAGE CALIFORNIA WATER SUPPLY PROJECT
SAN JUAN LATERAL REACH 9
LINE PIPE

PLAN AND PROFILE
STA. 91000+00
TO
STA. 91050+00
1655-D-T27993
SHEET 21



DATE: 11/11/11
DRAWN BY: [Name]
CHECKED BY: [Name]
SCALE: AS SHOWN

PROJECT: SAN JUAN LATERAL REACH 9
SHEET: 21 OF 21

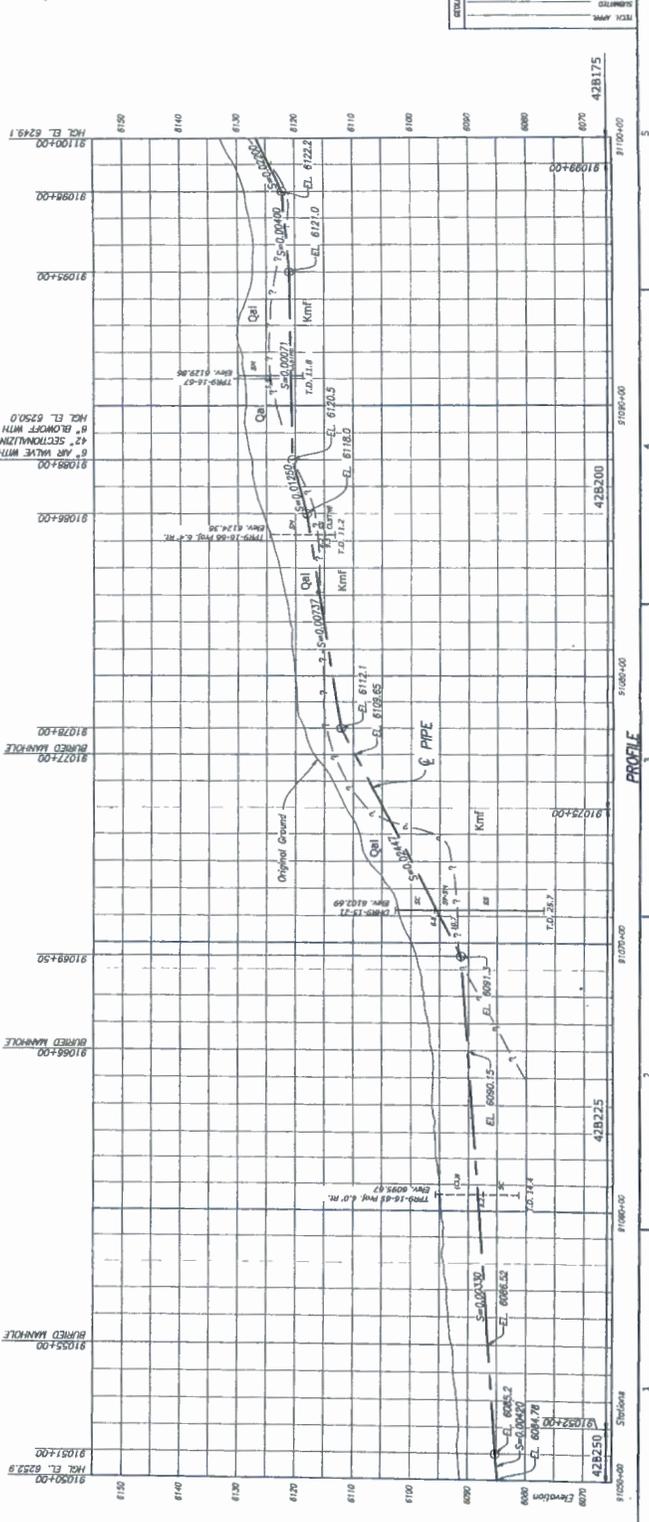


NOTES
1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see [XXXXX].

6" AIR VALVE WITH MANHOLE
42" SECTIONALIZING VALVE
8" BLOWOFF WITH MANHOLE
HGL EL. 6250.0

Original Ground
EL. 6127.1
EL. 6108.65
EL. 6097.1
EL. 6087.5
EL. 6074.4
T.O. 26.7

EL. 6066.52
EL. 6064.70
EL. 6052.40

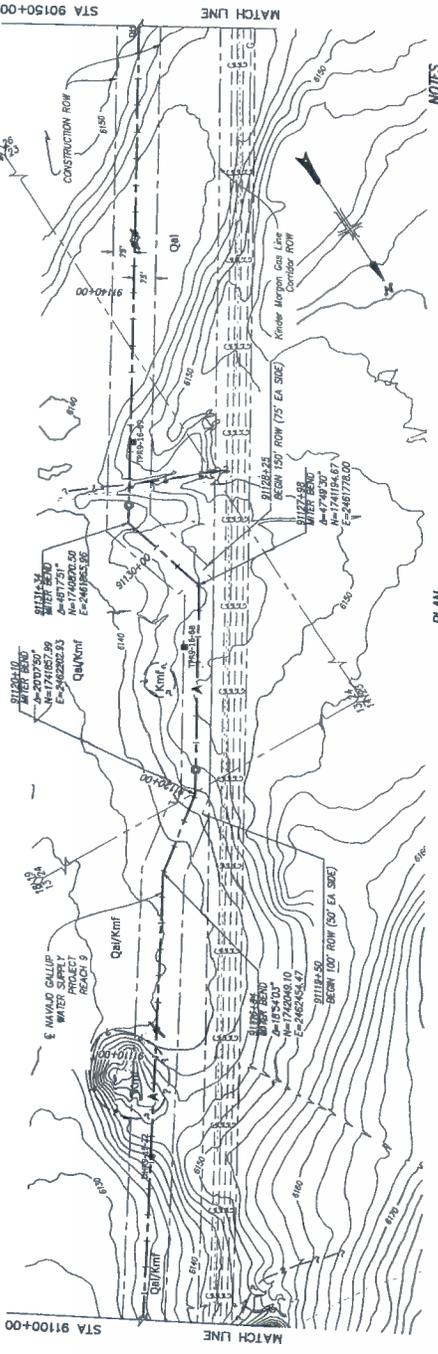


EL. 6066.52
EL. 6064.70
EL. 6052.40

CONTRACT NO. 1695-D-T27994
DRAWING NO. 1695-D-T27994-21
DATE: 08/10/00
BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]

NOT FOR CONSTRUCTION
 SAN JUAN LATERAL REACH 9

PLAN AND PROFILE
 STA. 91100+00
 TO
 STA. 91150+00
 1695-D-T28023
 SHEET 24



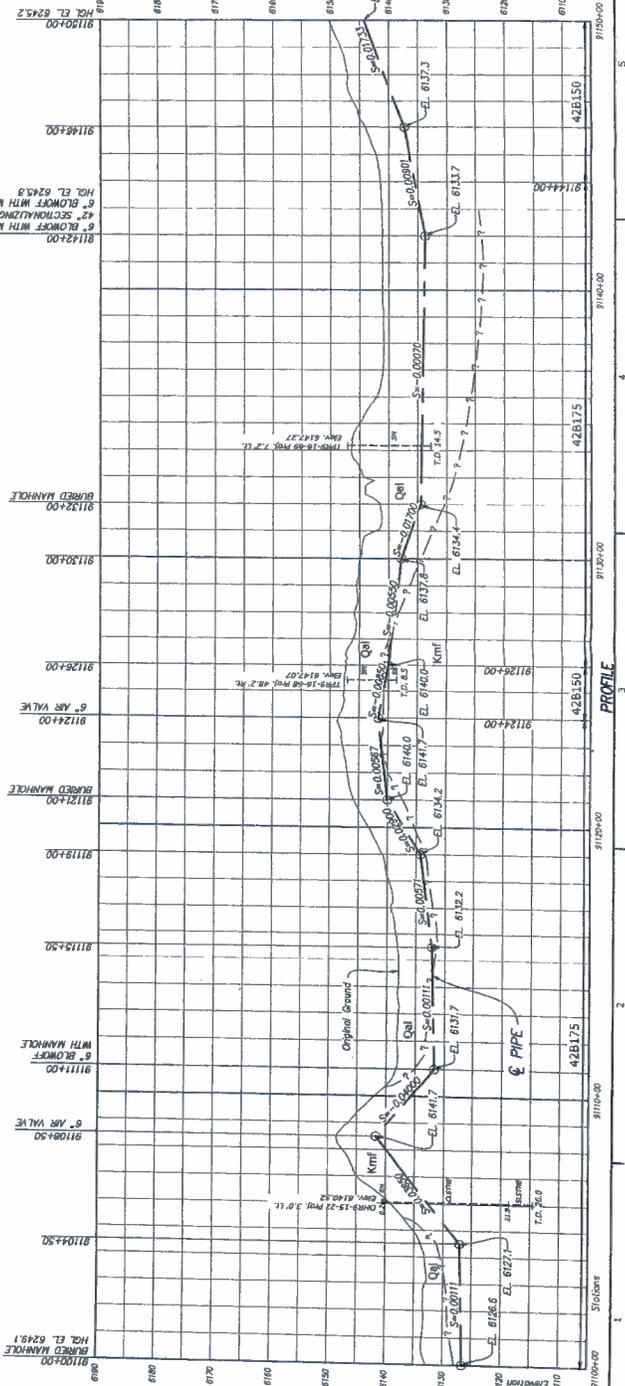
NOTES
 1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (00000).

PLAN
 SCALE OF FEET

6" BLOWOFF WITH MANHOLE
 HGL EL. 6245.1

6" BLOWOFF WITH MANHOLE
 HGL EL. 6245.3

6" BLOWOFF WITH MANHOLE
 HGL EL. 6245.2



PROFILE
 SCALE OF FEET

DATE SHEET
 DRAWN BY
 CHECKED BY
 REVISIONS
 1695-D-T28023-24-24-24

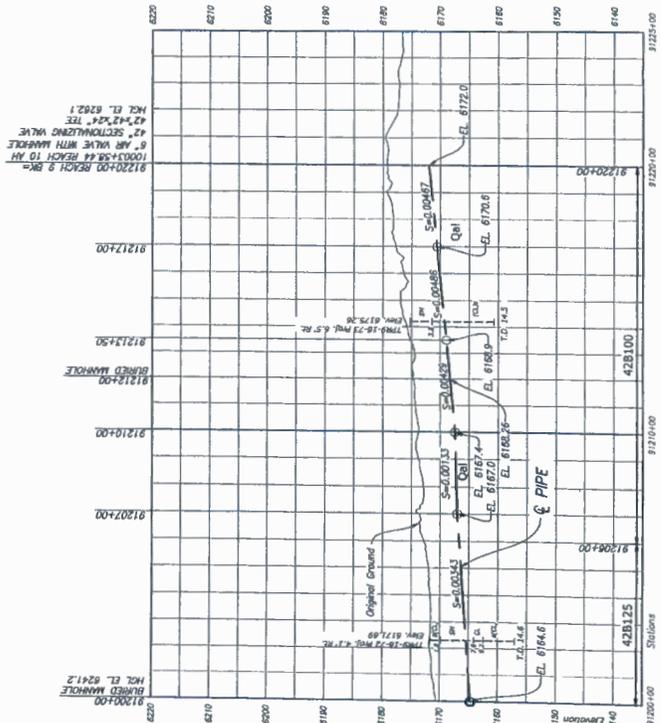
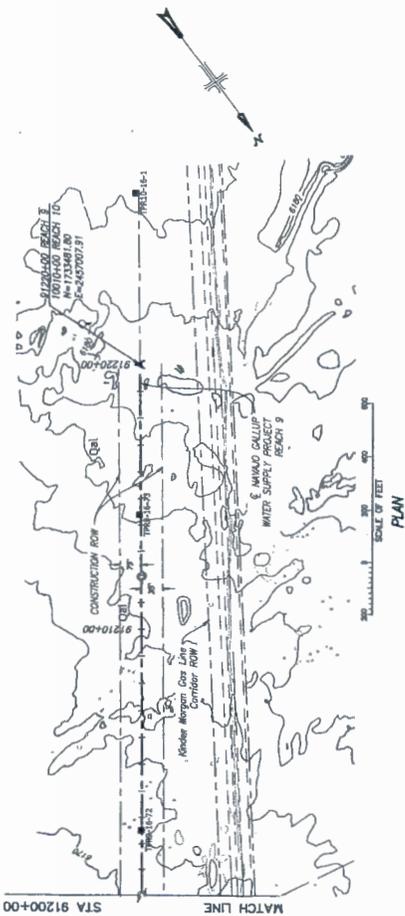
ALWAYS THINK SAFETY

NOTES

1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (00000).
2. For Checkpoint Turnout Details see (00000).

Line Pipe Material and Diameter Table

Pipe Material	Station	
	48 (n) to 42 (n)	Nominal Diameter Change
Upstream	Downstream	Material Change
Steel	Steel	MI
Steel	Ductile Iron	90881+00
Steel	Fiberglass	90881+00
Steel	PVC	90881+00
Steel	HDPE	90881+00
Ductile Iron	Ductile Iron	MI
Ductile Iron	Steel	90881+00
Ductile Iron	Fiberglass	90881+00
Ductile Iron	PVC	90881+00
Ductile Iron	HDPE	MI
Fiberglass	Fiberglass	MI
Fiberglass	Steel	
Fiberglass	Ductile Iron	
Fiberglass	PVC	
Fiberglass	HDPE	



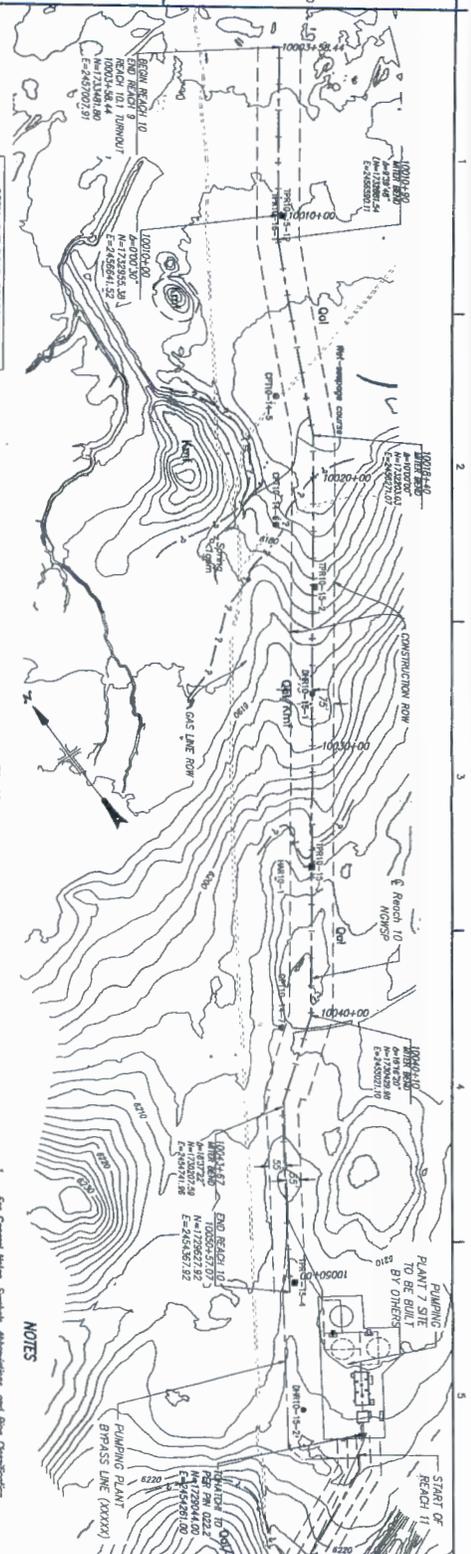
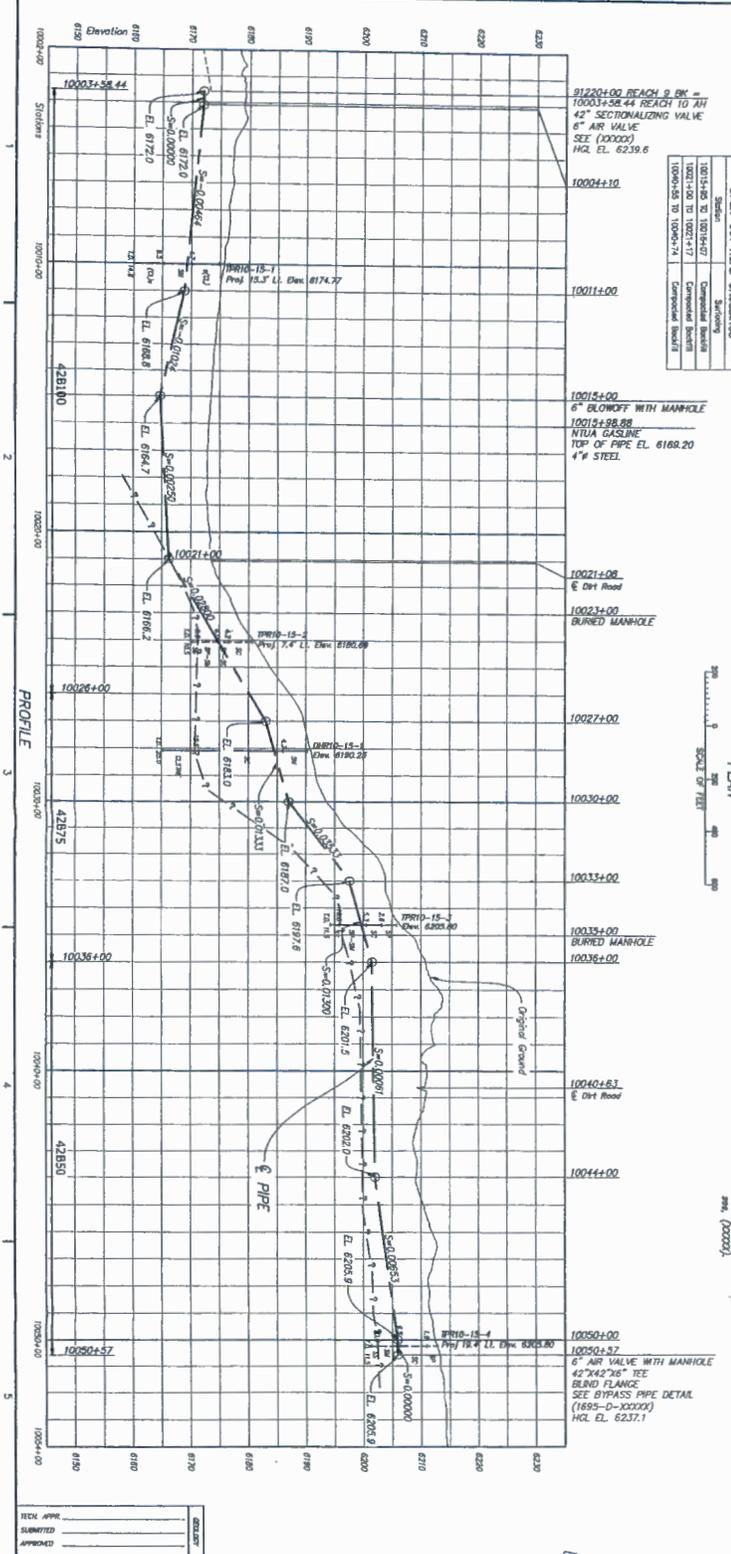
PLAN AND PROFILE
STA. 91200+00
TO
END

1695-D-T28025
SHEET 28

DATE AND TIME AT THE END OF THE PROJECT
DATE AND TIME AT THE END OF THE PROJECT
DATE AND TIME AT THE END OF THE PROJECT

CAD SYSTEM
 AUTOCAD
 FILE NAMING
 1695-D-174015-NO-1.dwg

DATE AND TIME PLOTTED
 2016-10-11
 PLOTTED BY
 Andrew Andrew (Andy)



Stationing	Component Station	Component Station
10011+00 TO 10016+07	10011+00	10016+07
10016+07 TO 10021+17	10016+07	10021+17
10021+17 TO 10026+24	10021+17	10026+24
10026+24 TO 10031+24	10026+24	10031+24
10031+24 TO 10036+24	10031+24	10036+24
10036+24 TO 10041+24	10036+24	10041+24
10041+24 TO 10046+24	10041+24	10046+24
10046+24 TO 10051+24	10046+24	10051+24

PLAN

NOTES

1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see (00000).

TECH. APPR. _____
 SUBMITTED _____
 APPROVED _____

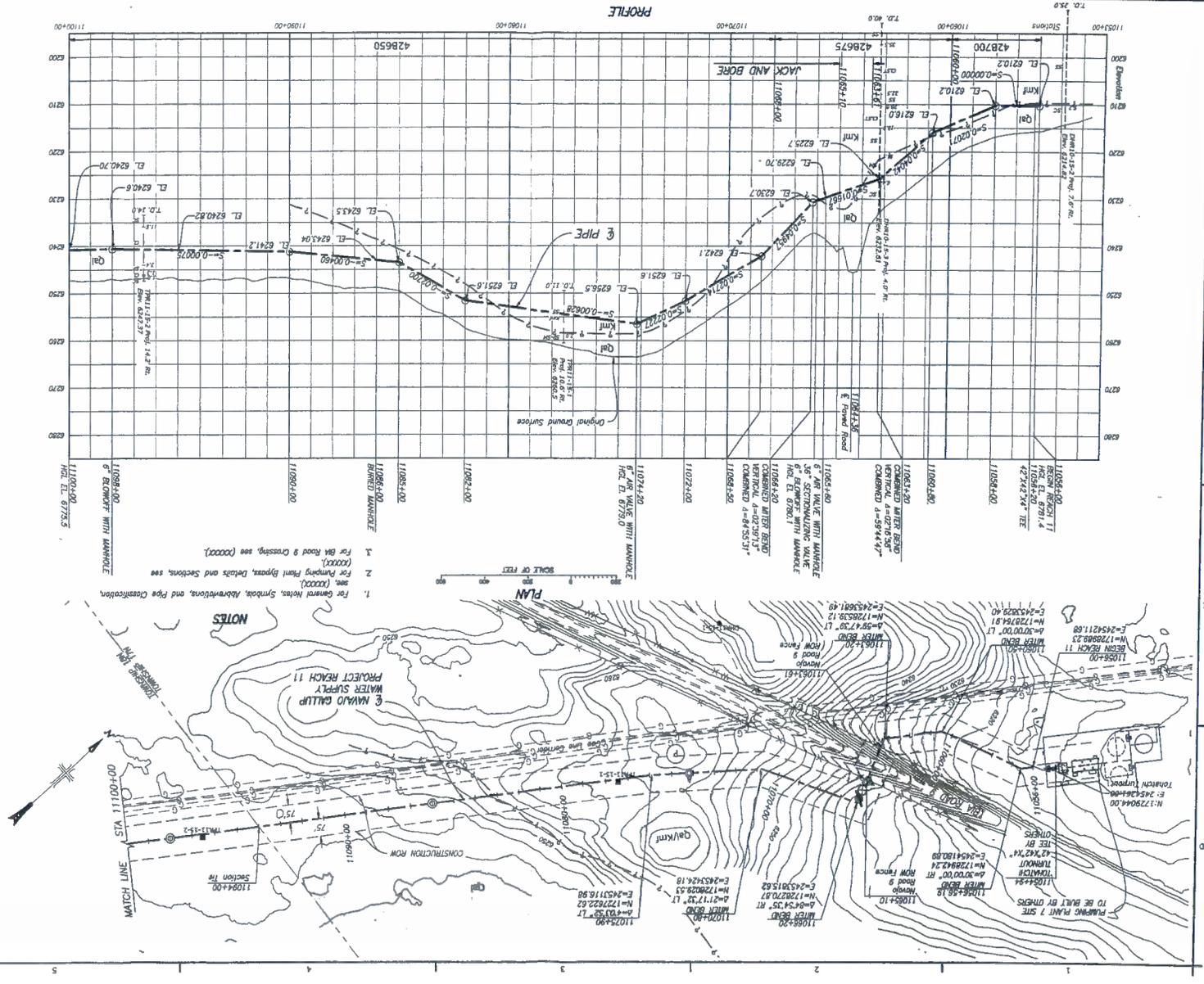
1695-D-174015
 SHEET 1 OF 1

PLAN AND PROFILE
 BEGINNING TO END
 (STATION 10003+58)

ALWAYS THINK SAFETY
 SAN JUAN LATERAL REACH 10
 Not For Distribution

RECLAMATION

DATE PLOTTED: 11/10/00
 PLOTTED BY: J. L. ...
 SCALE: 1" = 40' (PLAN)
 SCALE: 1" = 20' (PROFILE)



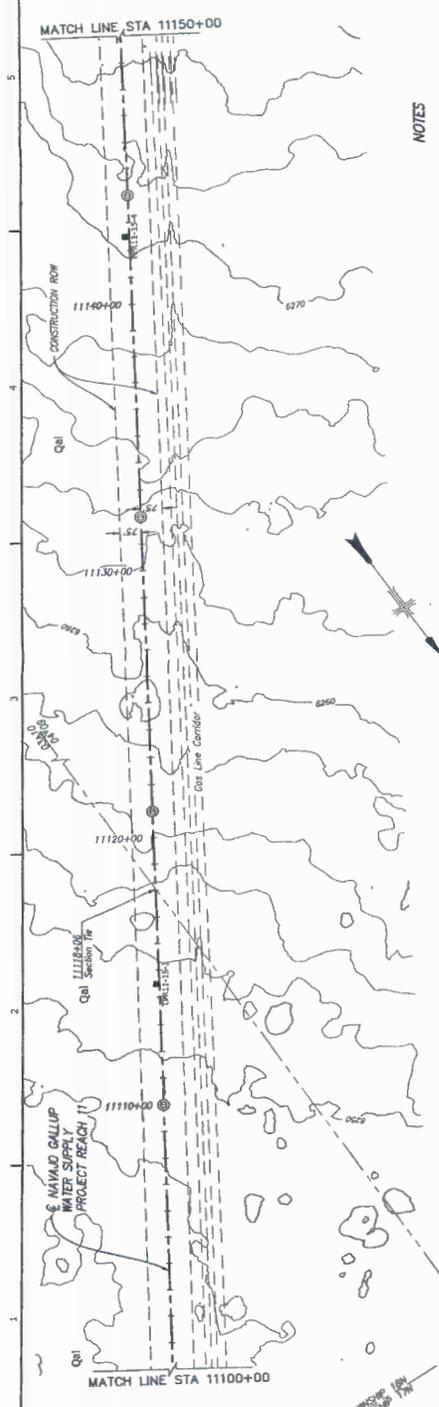
- NOTES**
1. For General Notes, Symbols, Abbreviations, and Pipe Construction, see (XXXXX).
 2. For Pumping Plant Types, Details and Sections, see (XXXXX).
 3. For Bit Road & Crossings, see (XXXXX).

SCALE OF FEET
 0 100 200

PLAN AND PROFILE
 BEGINNING
 STA. 11100+00
 1695-D-119087
 SHEET 1

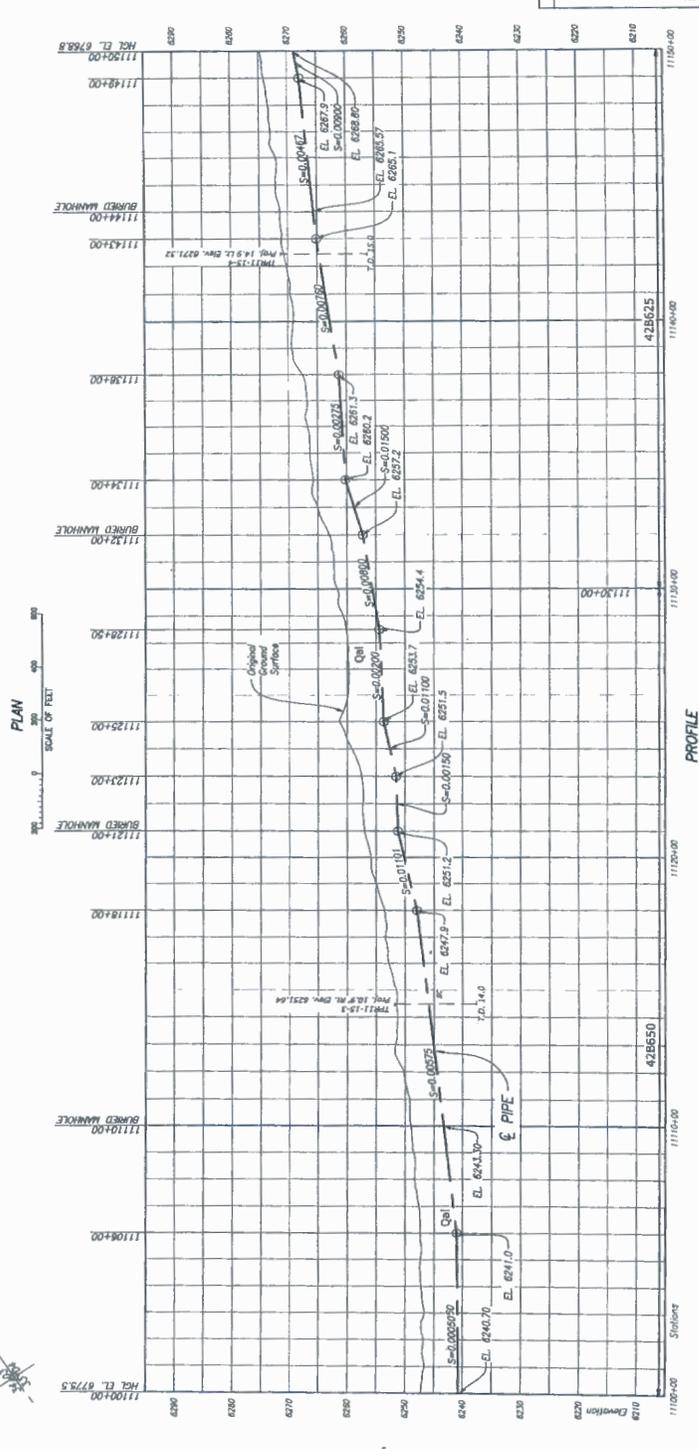
ALWAYS THINK SAFETY
 PROJECT ONLY
 NOT FOR CONSTRUCTION

RECLAMATION
 Managing Water in the West

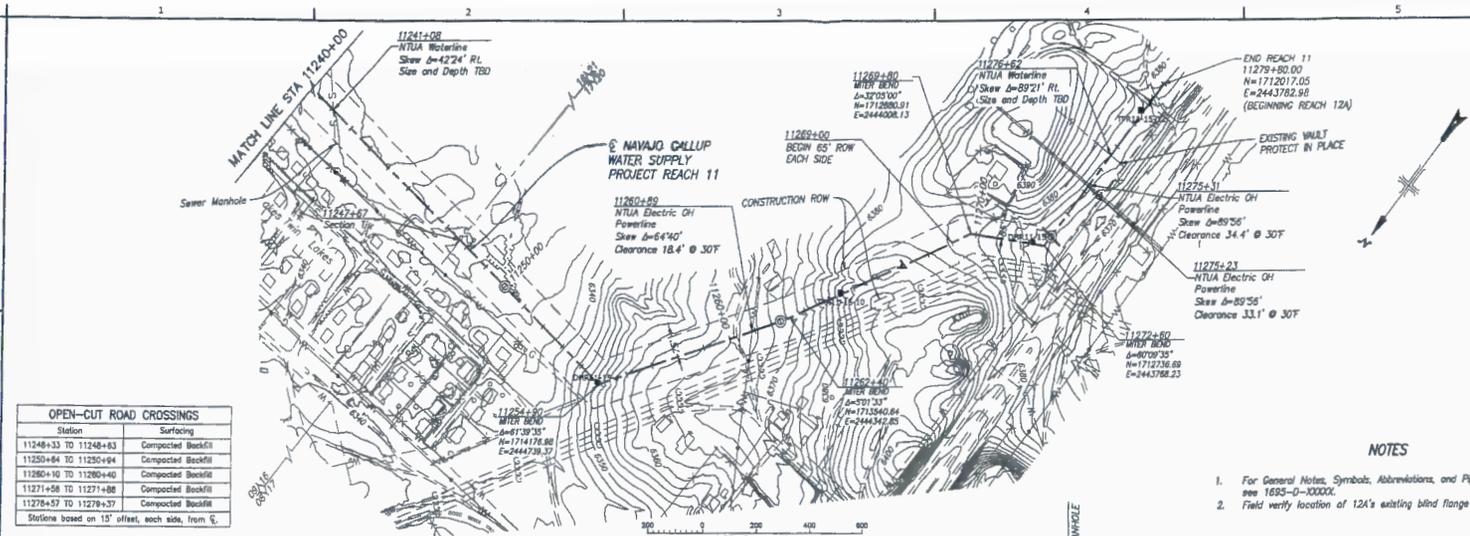


NOTES

1. For General Notes, Symbols, Abbreviations, and Pipe Classification, see 122000.



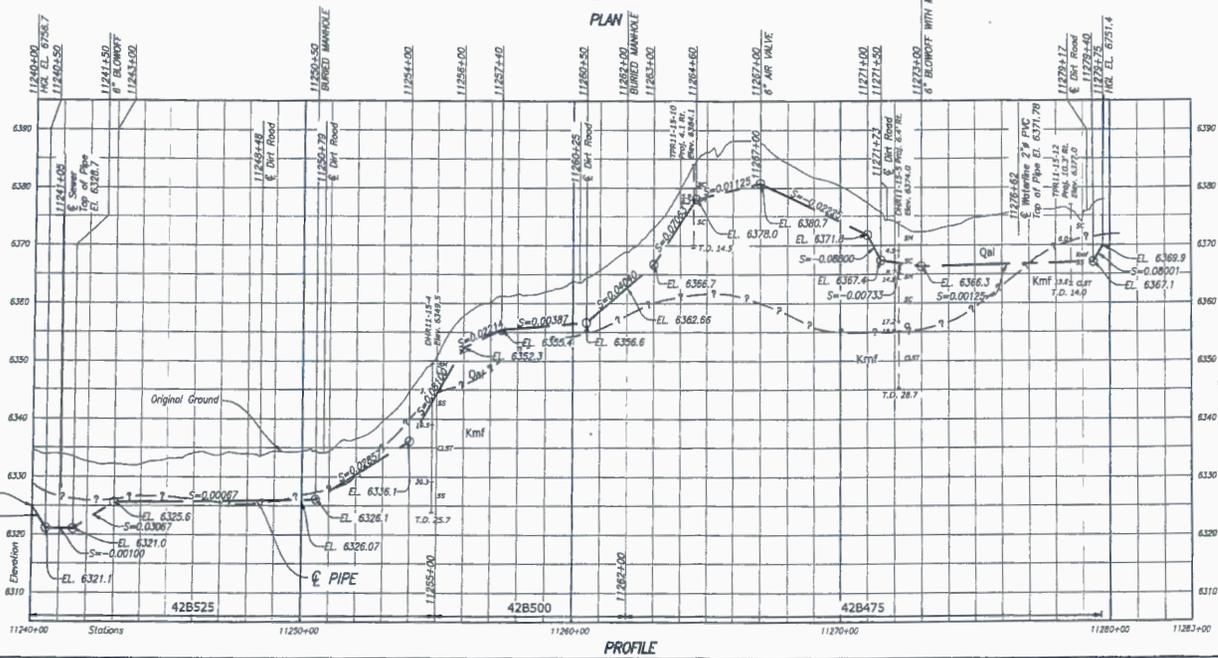
DATE AND TIME OF THIS SURVEY: 11/11/2010 10:00 AM
DRAWN BY: J. L. GARCIA
CHECKED BY: J. L. GARCIA
SCALE: 1" = 100'



OPEN-CUT ROAD CROSSINGS	
Station	Surfacing
11248+33 TO 11248+63	Compacted Backfill
11250+84 TO 11250+84	Compacted Backfill
11280+10 TO 11280+40	Compacted Backfill
11271+58 TO 11271+88	Compacted Backfill
11278+57 TO 11278+37	Compacted Backfill

Stationing based on 15' offset, each side, from ϕ .

- NOTES
- For General Notes, Symbols, Abbreviations, and Pipe Classification, see 1695-D-100000.
 - Field verify location of 12A's existing blind flange and pipe.



ALWAYS THINK SAFETY

U.S. Department of the Interior
BUREAU OF RECLAMATION
NAVAJO GALLUP WATER SUPPLY PROJECT
SAN JUAN LATERAL - REACH 11

PLAN AND PROFILE

STA. 11240+00
TO
END (STA. 11279+60)

1695-D-119093

SHEET 1

REVISIONS:

NO.	DATE	BY	DESCRIPTION

DATE AND TIME OF SURVEY
 NAME OF SURVEYOR
 NAME OF PARTY
 NAME OF OFFICE

Permanent ROW - Parcel No. RCH 9B-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60114 and 1695-529-60115: The Reach 9B ROW being described as a strip of land being 80 feet wide, lying 40 feet each side, from Station 90702+40.36 to Station 91185+00; Thence being 150 feet wide, lying 75 feet each side from Station 91185+00 to Station 91187+50, the ROW being widened to accommodate the maintenance of support structures for wash crossings; Thence being 80 feet wide, lying 40 feet each side from Station 91187+50 to Station 91220+00, on the pipeline centerline. Reclamation requests a varying width of said Permanent Easement for ROW, in order to avoid cultural resources occurring in the area, to provide additional Permanent ROW width at wash crossings for bank stabilization structures, and for the continuous maintenance of said structures. Reach 9B Permanent ROW is approximately 51,759.64 feet (9.80 miles) in length, and will contain 95.46 acres, more or less.

Legal Description of ROW – Parcel No. RCH 9B-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60114 and 1695-529-60115: The Point of Beginning being Reach 9B Station 90702+40.36, a point on the North line of said Section 16 from which the North Quarter Corner of said Section 16 bears North 89°31'14" West a distance of 222.03 feet; Thence, from the Point of Beginning South 16°15'55" West a distance of 1050.64 feet to Station 90712+91.00; Thence South 12°59'03" West a distance of 4085.00 feet to Station 90753+76.00; Thence South 23°47'16" West a distance of 305.63 feet to Station 90756+81.63, a point the North line of said Section 21 from which the North Quarter Corner of said Section 21 bears South 89°30'47" East a distance of 1066.57 feet; Thence continuing South 23°47'16" West a distance of 3840.37 feet to Station 90795+22.00; Thence South 11°54'09" West a distance of 304.76 feet to Station 90798+26.76, a point on the East line of said Section 20 from which the East Quarter Corner of said Section 20 bears North 00°31'05" East a distance of 1185.67 feet; Thence continuing South 11°54'09" West a distance of 294.24 feet to Station 90801+21.00; Thence South 23°55'34" West a distance of 1270.41 feet to Station 90813+91.41, a point on the North line of said Section 29 from which the Northeast Corner of said Section 29 bears South 89°28'45" East a distance of 562.79 feet; Thence continuing South 23°55'34" West a distance of 1077.59 feet to Station 90824+69.00; Thence South 46°24'59" West a distance of 413.00 feet to Station 90828+82.00; Thence South 23°48'41" West a distance of 332.00 feet to Station 90832+14.00; Thence South 01°21'21" West a distance of 410.00 feet to Station 90836+24.00; Thence South 23°40'50" West a distance of 1283.00 feet to Station 90849+07.00; Thence South 25°48'38" West a distance of 2333.73 feet to Station 90872+40.73, a point on the North line of said Section 32 from which the North Quarter Corner of said Section 32 bears South 89°28'04" East a distance of 284.12 feet; Thence continuing South 25°48'38" West a distance of 72.27 feet to Station 90873+13.00; Thence South 28°26'23" West a distance of 1367.00 feet to Station 90886+80.00; Thence South 27°13'05" West a distance of 1712.00 feet to Station 90903+92.00; Thence South 29°12'51" West a distance of 331.00 feet to Station 90907+23.00; Thence South 23°50'49" West a distance of 1235.00 feet to Station 90919+58.00; Thence South 29°25'33" West a distance of 567.01 feet to Station 90925+25.01, a point on the East line of Section 31 from which the Southeast Corner of said Section 31 bears South 00°38'11" West a distance of 554.18 feet; Thence continuing South 29°25'33" West a distance of 39.99 feet to Station 90925+65.00; Thence South 17°39'05" West a distance of 543.21 feet to Station 90931+08.20, a point on the North line of Township 18 North, Range 17 West, Section 06 from which the Northeast Corner of said Section 06 bears South 89°27'33" East a distance of 178.21 feet; Thence continuing South 17°39'05" West a

distance of 6.79 feet to Station 90931+15.00; Thence South 27°09'09" West a distance of 1800.00 feet to Station 90949+15.00; Thence South 31°38'43" West a distance of 470.00 feet to Station 90953+85.00; Thence South 59°07'07" West a distance of 539.00 feet to Station 90959+24.00; Thence South 29°12'25" West a distance of 1217.00 feet to Station 90971+41.00; Thence South 19°19'31" East a distance of 343.00 feet to Station 90974+84.00; Thence South 26°58'01" West a distance of 1795.90 feet to Station 90992+79.89, a point on the North line of said Section 07 from which the North Quarter Corner of said Section 07 bears South 89°18'16" East a distance of 343.41 feet; Thence continuing South 26°58'01" West a distance of 497.10 feet to Station 90997+77.00; Thence South 34°10'14" West a distance of 2191.00 feet to Station 91019+68.00; Thence South 36°27'29" West a distance of 912.00 feet to Station 91028+80.00; Thence South 10°19'32" East a distance of 253.00 feet to Station 91031+33.00; Thence South 33°07'06" West a distance of 697.84 feet to Station 91038+30.83, a point on the East line of Township 18 North, Range 18 West, Section 12 from which the Southeast Corner of said Section 12 bears South 00°26'20" West a distance of 1437.19 feet; Thence continuing South 33°07'06" West a distance of 1706.49 feet to Station 91055+37.33, a point on the North line of said Section 13 from which the Northeast Corner of said Section 13 bears South 89°30'34" East a distance of 921.40 feet; Thence continuing South 33°07'06" West a distance of 1907.67 feet to Station 91074+45.00; Thence South 58°37'37" West a distance of 265.00 feet to Station 91077+10.00; Thence South 32°48'57" West a distance of 848.00 feet to Station 91085+58.00; Thence South 33°52'25" West a distance of 3136.00 feet to Station 91116+94.00; Thence South 52°46'29" West a distance of 316.00 feet to Station 91120+10.00; Thence South 32°38'38" West a distance of 5.94 feet to Station 91120+15.94, a point on the North line of said Section 24 from which the Northwest Corner of said Section 24 bears North 89°30'14" West a distance of 674.83 feet; Thence continuing South 32°38'38" West a distance of 782.05 feet to Station 91127+98.00; Thence South 15°10'52" East a distance of 336.00 feet to Station 91131+34.00; Thence South 33°06'59" West a distance of 647.63 feet to Station 91137+81.63, a point on the East line of said Section 23 from which the East Quarter Corner of said Section 23 bears South 00°28'56" West a distance of 1108.83 feet; Thence continuing South 33°06'59" West a distance of 2539.37 feet to Station 91163+21.00; Thence South 43°05'59" West a distance of 710.00 feet to Station 91170+31.00; Thence South 33°12'25" West a distance of 1291.14 feet to Station 91183+22.13, a point on the North line of said Section 26 from which the North Quarter Corner of said Section 26 bears North 89°28'34" West a distance of 92.20 feet; Thence continuing South 33°12'25" West a distance of 18.86 feet to Station 91183+41.00; Thence South 26°45'21" West a distance of 1441.00 feet to Station 91197+82.00; Thence South 34°50'18" West for a distance of 2218.00 feet to Station 91220+00.00 and the Point of Terminus from which the West Quarter Corner of said Section 26 bears North 58°27'50" West a distance of 971.21 feet.

Parcel No. RCH 9B-Tribal Trust-01(P) is approximately 51,759.64 feet (9.80 miles) in length, and contains 95.46 acres more or less.

Temporary Construction Easement – Parcel No. RCH 9B-Tribal Trust-01(T): Pipeline – Drawing No.

1695-529-60114 and 1695-529-60115: Reach 9B TCE being described as a strip of land being 150 feet wide, lying 75 feet each side, from Station 90702+40.36 to Station 90730+50.00; Thence being 135 feet wide, lying 60 feet left and 75 feet right from Station 90730+50.00 to Station 90731+75.00, the TCE

being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90731+75.00 to Station 90827+80.00; Thence being 115 feet wide, lying 75 feet left and 40 feet right from Station 90827+80.00 to Station 90833+10.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90833+10.00 to Station 90906+00.00; Thence being 115 feet wide, lying 40 feet left and 75 feet right from Station 90906+00.00 to Station 90908+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90908+00.00 to Station 90931+08.20; Thence being 150 feet wide, lying 75 feet each side from Station 90931+08.20 to Station 90997+20.00; Thence being 120 feet wide, lying 75 feet left and 45 feet right from Station 90997+20.00 to Station 90998+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 90998+50.00 to Station 91028+40.00; Thence being 130 feet wide, lying 75 feet left and 55 feet right from Station 91028+40.00 to Station 91033+00.00, the TCE being reduced to avoid a cultural resource site; Thence, being 150 feet wide, lying 75 feet each side from Station 91033+00.00 to Station 91041+00.00; Thence being 130 feet wide, lying 75 feet left and 55 feet right from Station 91041+00.00 to Station 91042+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 91042+50.00 to Station 91119+50.00; Thence being 100 feet wide, lying 50 feet each side from Station 91119+50.00 to Station 91127+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 80 feet wide, lying 40 feet each side from Station 91127+00.00 to Station 91129+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 91129+00.00 to Station 91220+00.00 on the pipeline centerline. Reclamation requests a varying width of said TCE in order to avoid cultural resources occurring in the area.

Parcel No. RCH 9B-Tribal Trust-01(T) is approximately 51,759.64 feet (9.80 miles) in length, and contains 80.59 acres, more or less.

Permanent ROW - Parcel No. RCH 10-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60113: The Reach 10 ROW being described as being approximately 5,544 feet (1.05 miles) in length, and 80 feet in width, lying 40 feet each side of the pipeline centerline, containing 10.18 acres more or less.

Legal Description of ROW – Parcel No. RCH 10-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60113: The Point of Beginning being Reach 10 Station 10003+58.44 from which the West Quarter Corner of said Section 26 bears North 58°27'50" West a distance of 971.21 feet; Thence, from the Point of Beginning South 34°50'20" West a distance of 731.56 feet to Station 10010+90.00; Thence South 25°11'00" West a distance of 750.00 feet to Station 10018+40.00; Thence South 35°11'00" West a distance of 175.42 feet to Station 10020+15.43, a point on the East line of said Section 27 from which the Southeast Corner of Section 27 bears South 00°28'10" West a distance of 712.91 feet; Thence continuing South 35°11'00" West a distance of 866.69 feet to Station 10028+82.11, a point on the North line of said Section 34 from which the Northeast Corner of said Section 34 bears South 89°28'26" East a distance of 493.56 feet; Thence continuing South 35°11'00" West a distance of 1127.89 feet to Station 10040+10.00; Thence South 51°27'20" West a distance of 357.00 feet to Station 10043+67.00; Thence South 32°49'58" West a distance of 1320.15 feet to Station 10056+87.15; Thence South 56°46'18" East a distance of 215.29 feet to Station 10059+02.44 and the Point of Terminus, which is Reach 11 Station 11056+10.00, from which the East Quarter Corner of said Section 34 bears South 81°58'32" East a distance of 1955.70 feet.

Parcel No. RCH 10-Tribal Trust-01(P) is approximately 5,544 feet (1.05 miles) in length, and contains 10.18 acres more or less.

Temporary Construction Easement – Parcel No. RCH 10-Tribal Trust-01(T): Pipeline – Drawing No. 1695-529-60113: Reach 10 TCE being described as a strip of land being 150 feet wide, lying 75 feet each side, from Station 10003+58.44 to Station 10035+00.00; Thence being 120 feet wide, lying 75 feet left and 45 feet right from Station 10035+00.00 to Station 10043+20.00, the TCE being reduced to avoid a cultural resource site; Thence being 95 feet wide, lying 55 feet left and 40 feet right from Station 10043+20.00 to Station 10059+02.44 of the pipeline centerline, the TCE being reduced to avoid a cultural resource site. Reclamation requests a varying width of said TCE in order to avoid cultural resources occurring in the area.

Parcel No. RCH 10-Tribal Trust-01(T) is approximately 5,544 feet (1.05 miles) in length, and contains 6.35 acres more or less.

Permanent ROW - Parcel No. RCH 11-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-60112:

The Reach 11 ROW being described as a strip of land 80 feet wide, lying 40 feet each side, from Station 11053+60.00 to Station 11166+00.00; Thence being 150 feet wide, lying 75 feet each side from Station 11166+00.00 to Station 11168+50.00, being widened to accommodate the maintenance of support structures for wash crossings; Thence being 80 feet wide, lying 40 feet each side from Station 11168+50.00 to Station 11279+80.00, on the pipeline centerline. Reclamation requests a varying width of said Permanent Easement for ROW, in order to avoid cultural resources occurring in the area, and to provide additional Permanent ROW width at wash crossings for bank stabilization structures, and for the continuous maintenance of said structures. The Reach 11 Permanent ROW will be approximately 22,620 feet (4.28 miles) in length, containing 41.94 acres more or less.

Legal Description of ROW – Parcel No. RCH 11-Tribal Trust-01(P): Pipeline – Drawing No. 1695-529-

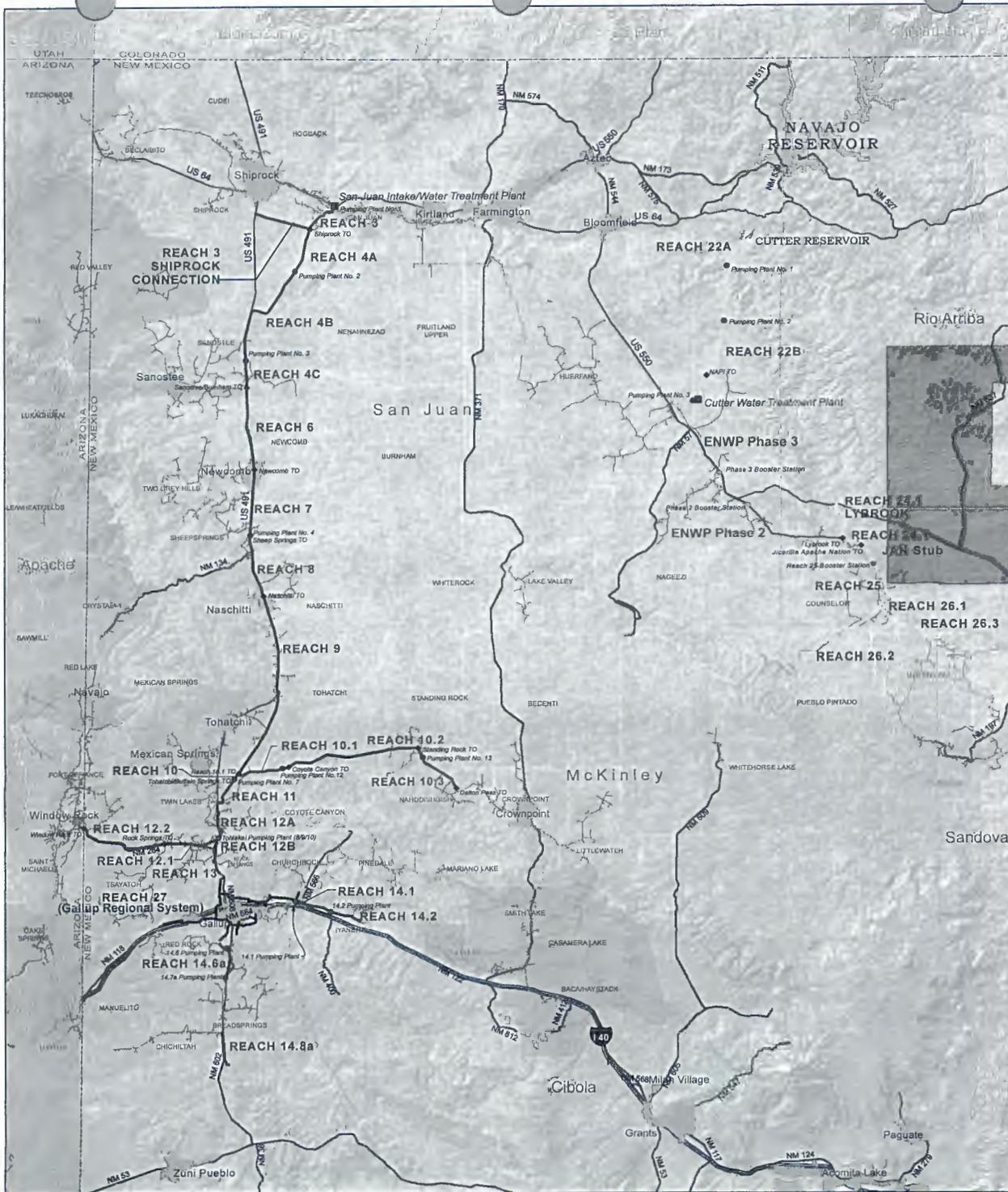
60112: The Point of Beginning being Reach 11 Station 11053+60.00 from which the East Quarter Corner of said Section 34 bears South 75°00'06" East a distance of 1863.02 feet; Thence, from the Point of Beginning South 33°13'42" West a distance of 296.19 feet to Station 11056+56.19; Thence South 63°13'42" West a distance of 393.81 feet to Station 11060+50.00; Thence South 33°13'42" West a distance of 270.00 feet to Station 11063+20.00; Thence South 26°33'58" East a distance of 300.00 feet to Station 11066+20.00; Thence South 58°20'37" West a distance of 460.00 feet to Station 11070+80.00; Thence South 37°03'05" West a distance of 510.00 feet to Station 11075+90.00; Thence South 32°59'14" West a distance of 1810.10 feet to Station 11094+00.10, a point on the North line of said Township 17 North, Range 18 West, Section 03, from which the Northwest Corner of said Section 03 bears North 89°28'02" West a distance of 1293.21 feet; Thence continuing South 32°59'14" West a distance of 2405.88 feet to Station 11118+05.98, a point on the East line of said Section 04 from which the East Quarter Corner of said Section 04 bears South 00°28'20" West a distance of 604.72 feet; Thence continuing South 32°59'14" West a distance of 3841.38 feet to Station 11156+47.36, a point on the North line of said Section 09 from which the North Quarter Corner of said section 09 bears North 89°22'11" West a distance of 574.69 feet; Thence continuing South 32°59'14" West a distance of 3372.64 feet to Station 11190+20.00; Thence South 10°11'55" West a distance of 730.00 feet to Station 11197+50.00; Thence South 33°19'41" East a distance of 480.00 feet to Station 11202+30.00; Thence South 37°23'08" East a distance of 700.00 feet to Station 11209+30.00; Thence South 09°43'39" West a distance of 771.66 feet to Station 11217+01.66, a point on the North line of said Section 16 from which the North Quarter Corner of said Section 16 bears South 89°21'39" East a distance of 787.48 feet; Thence continuing South 09°43'39" West a distance of 1428.34 feet to Station 11231+30.00; Thence South 79°07'36" West a distance of 660.00 feet to Station 11237+90.00; Thence North 86°24'45" West a distance of 976.97 feet to Station 11247+66.97, a point on the East line of said Section 17 from which the East Quarter Corner of said Section 17 bears South 00°29'15" West a distance of 1148.42 feet; Thence continuing North 86°24'45" West a distance of 723.03 feet to Station 11254+90.00; Thence South 31°55'40" West a distance of 750.00 feet to Station 11262+40.00; Thence South 26°54'07" West a distance of 740.00 feet to Station 11269+80.00; Thence South 58°59'07" West a distance of 280.00 feet to Station 11272+60.00; Thence South 01°10'28" East a distance of 720.00 feet to Station 11279+80.00, the Point of Terminus from which the South Quarter Corner of said Section 17 bears South 31°08'00" West a distance of 1920.42 feet.

Parcel No. RCH 11-Tribal Trust-01(P) is approximately 22,620 feet (4.28 miles) in length, and contains 41.94 acres more or less.

Temporary Construction Easement – Parcel No. RCH 11-Tribal Trust-01(T): Pipeline – Drawing No.

1695-529-60112: Reach 11 TCE being described as a strip of land being 150 feet wide, lying 75 feet each side, from Station 11053+60.00 to Station 11060+00.00; Thence being 135 feet wide, lying 60 feet right and 75 feet left from Station 11060+00.00 to Station 11063+65.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11063+65.00 to Station 11072+50.00; Thence being 115 feet wide, lying 40 feet left and 75 feet right from station 11072+50.00 to Station 11074+60.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11074+60.00 to Station 11080+00.00; Thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11080+00.00 to Station 11081+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11081+50.00 to Station 11089+00.00; Thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11089+00.00 to Station 11091+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11091+00.00 to Station 11174+50.00; Thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11174+50.00 to Station 11177+00.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11177+00.00 to Station 11193+50.00; Thence being 115 feet wide, lying 40 feet right and 75 feet left from Station 11193+50.00 to Station 11195+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11195+50.00 to Station 11208+95.00; Thence being 80 feet wide, lying 40 feet each side from Station 11208+95.00 to Station 11224+85.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11224+85.00 to Station 11252+10.00; Thence being 140 feet wide, lying 75 feet right and 65 feet left from Station 11252+10.00 to Station 11253+50.00, the TCE being reduced to avoid a cultural resource site; Thence being 150 feet wide, lying 75 feet each side from Station 11253+50.00 to Station 11269+00.00; Thence being 130 feet wide, lying 65 feet right and 65 feet left from Station 11269+00.00 to Station 11279+80.00 of the pipeline centerline, the TCE being reduced to avoid a cultural resource site. Reclamation requests a varying width of said Temporary Construction Easement in order to avoid cultural resources occurring in the area.

Parcel No. RCH 11-Tribal Trust-01(T) is approximately 22,620 feet (4.28 miles) in length, and contains 31.93 acres more or less.



- LEGEND**
- San Juan Lateral
 - Gallup Regional System
 - Cutter Lateral
 - Eastern Navajo Water Pipeline (ENWP) Phase 2
 - Eastern Navajo Water Pipeline (ENWP) Phase 3
 - Water Treatment Plant
 - Pumping Plant
 - ◆ Turnout
 - Navajo Tribal Utility Authority Distribution System
 - Jicarilla Apache Nation (JAN)
 - Navajo Nation Served Chapters
 - Navajo Nation Non-Served Chapters

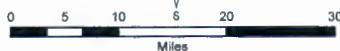
Navajo Gallup Water Supply Project

RECLAMATION

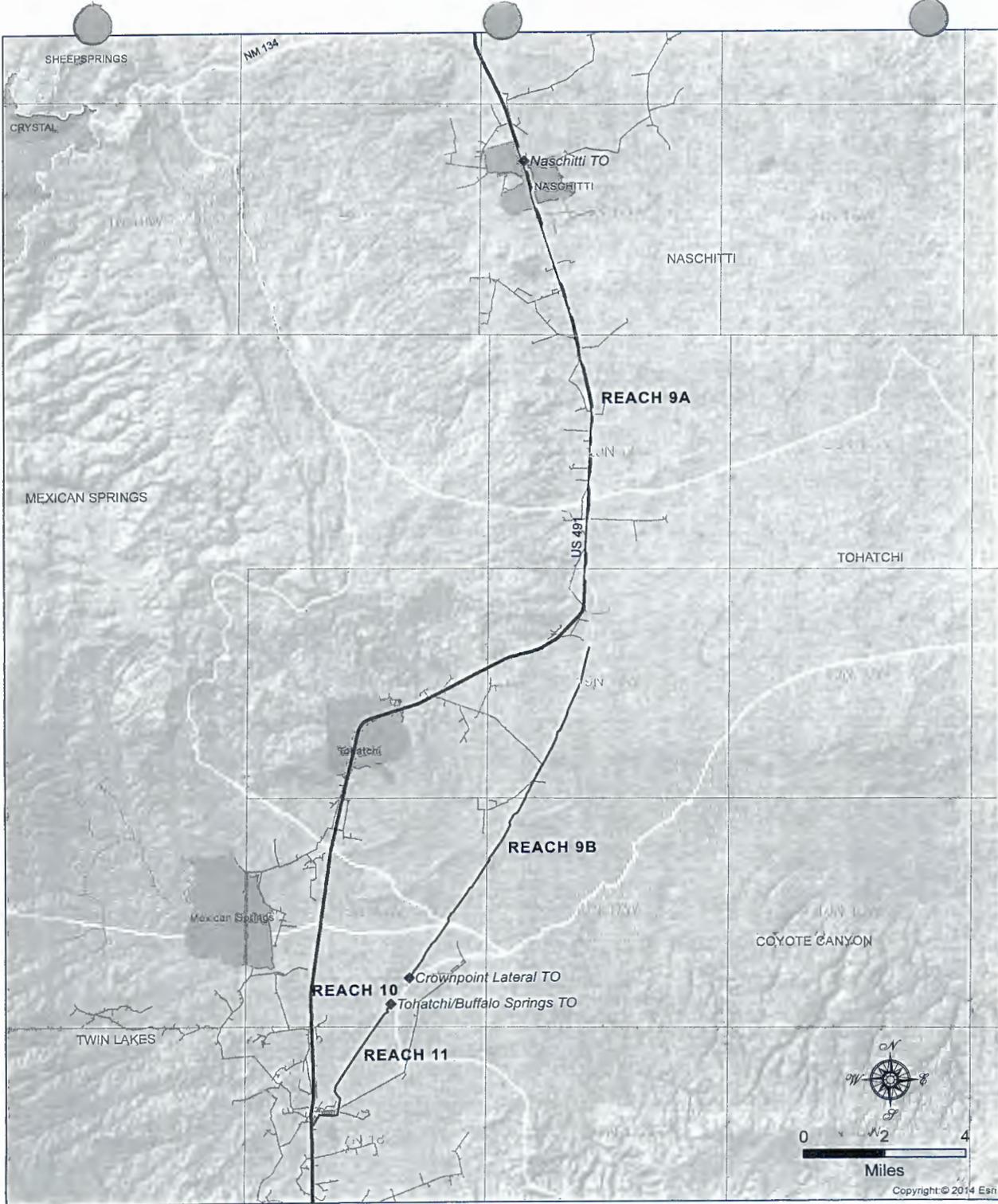
Managing Water in the West

Note: Pumping Plant numbers reflect FEIS designations. Some pumping plants in original FEIS design have been combined and/or eliminated as a result of additional analyses and optimization studies.

Disclaimer: Not for construction purposes. Alignment may be refined as designs and field reviews are completed.



1695-529-537
 Last Update: April 28, 2015
 Print Date: 4/28/2015



Navajo-Gallup Water Supply Project

RECLAMATION

Managing Water in the West

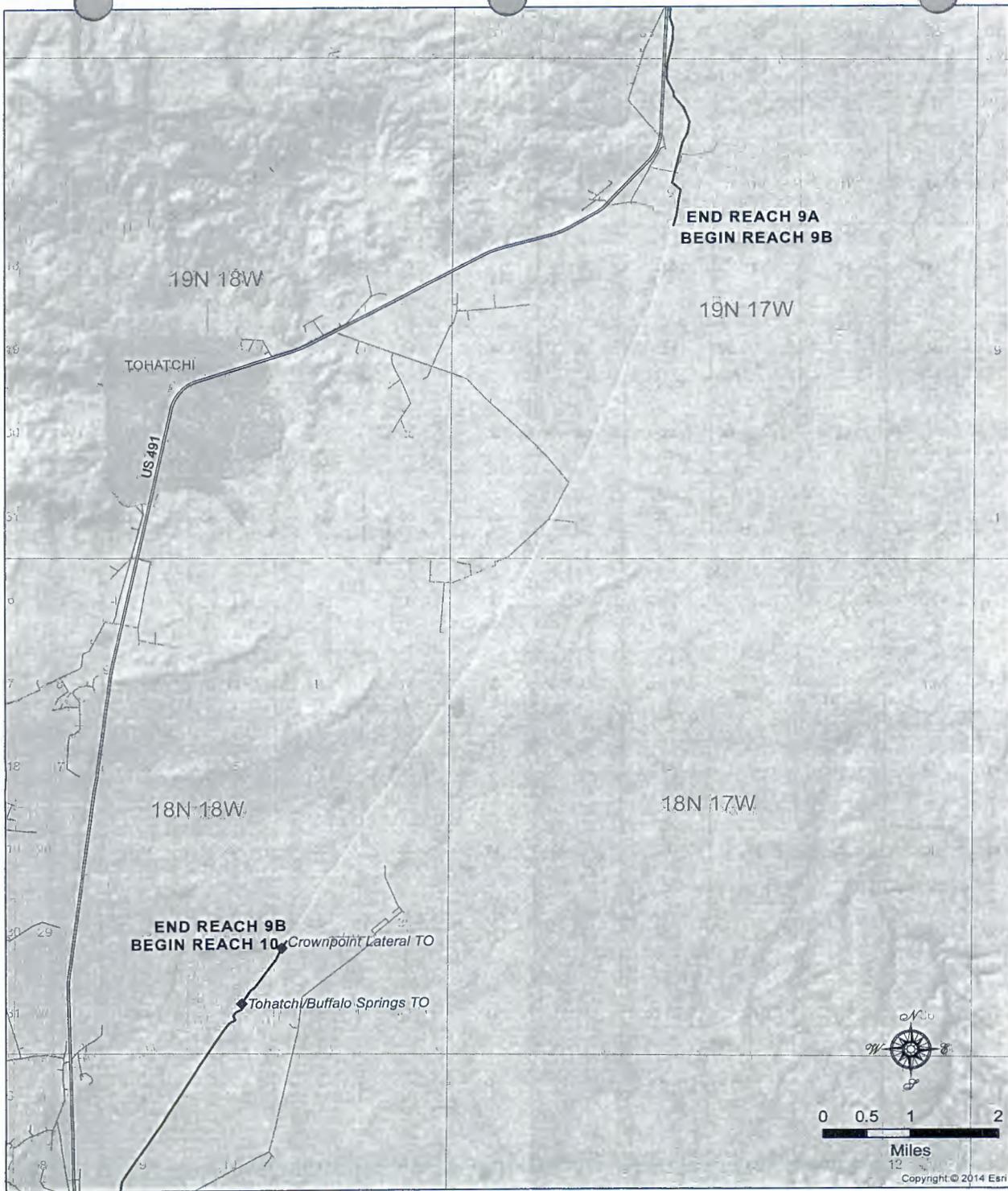
LEGEND

- Reach 9A
- Reach 9B
- Reach 10
- Reach 11
- Turnout (TO)
- US Highway

**BLOCK 9-11
LAND STATUS MAP
REACHES 9A, 9B, 10 AND 11**



FIGURE 1



Navajo-Gallup Water Supply Project

RECLAMATION

Managing Water in the West

LEGEND

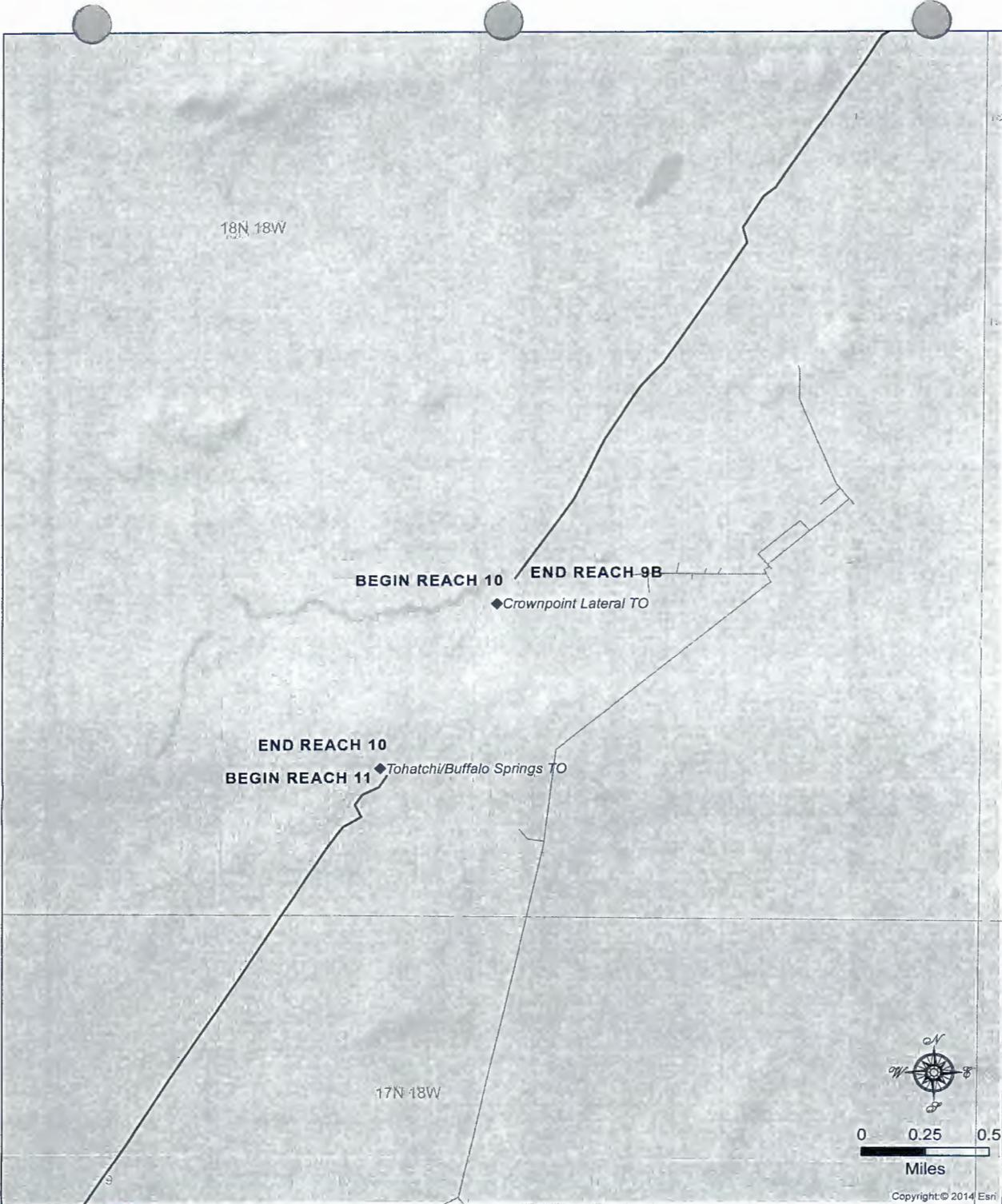
- Reach 9A
- Reach 9B
- Reach 10
- Turnout (TO)
- Navajo Tribal Utility Authority Distribution System
- US Highway
- Unpaved

**BLOCK 9-11
LAND STATUS MAP
REACH 9B**

FIGURE 1



Print Date: 12/15/2016
Document Name: Reach 9B Land Status 2



Navajo-Gallup Water Supply Project

RECLAMATION

Managing Water in the West

LEGEND

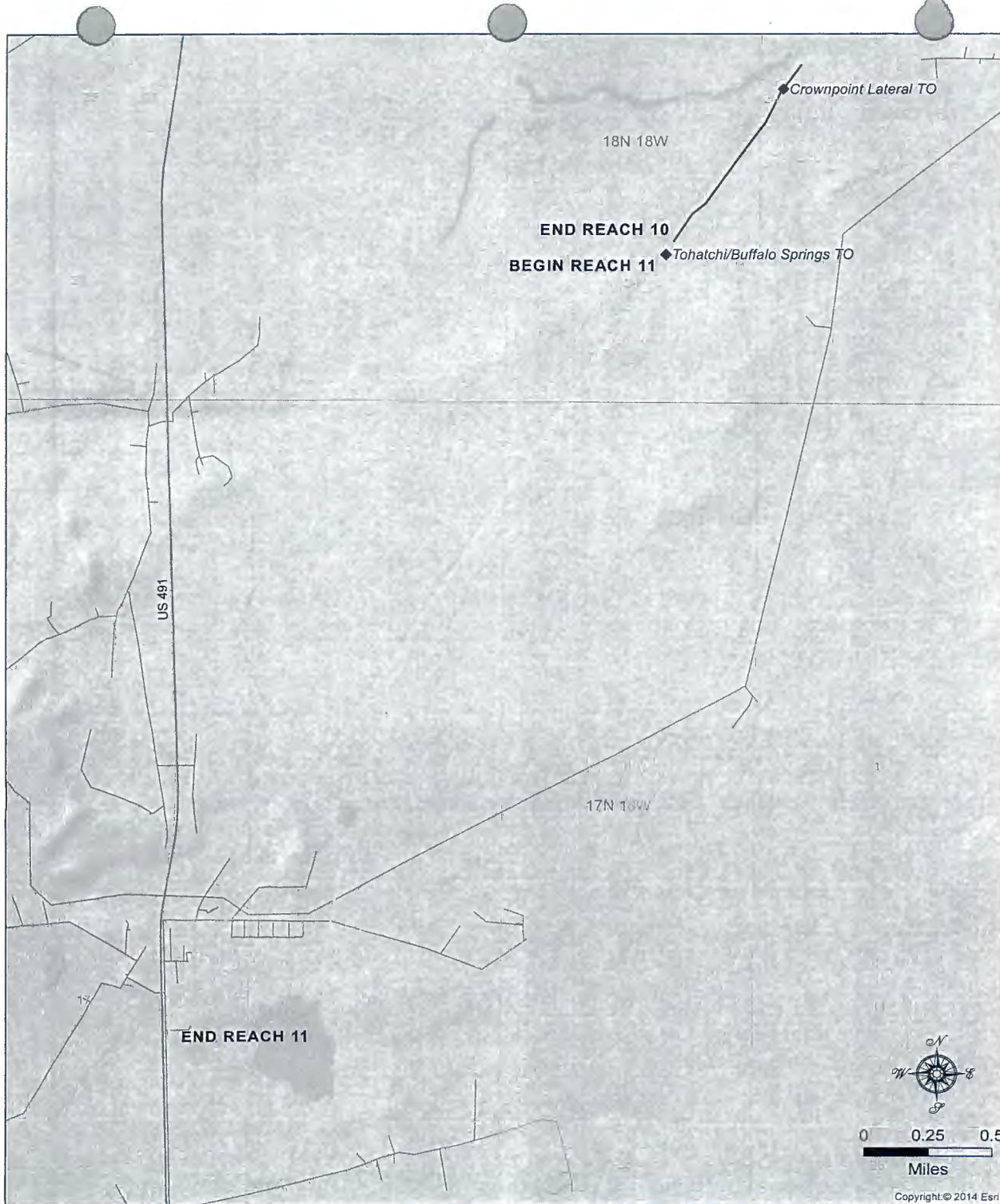
- Reach 9A
- Reach 10
- Reach 11
- ◆ Turnout (TO)
- Navajo Tribal Utility Authority Distribution System
- Road Unpaved

**BLOCK 9-11
LAND STATUS MAP
REACH 10**

FIGURE 1



Print Date: 12/15/2016
Document Name: Reach 10 Land Status 2



Navajo-Gallup Water Supply Project

RECLAMATION

Managing Water in the West

LEGEND

- Reach 10
- Reach 11
- ◆ Turnout (TO)
- Navajo Tribal Utility Authority Distribution System
- US Highway
- Road Unpaved

**BLOCK 9-11
LAND STATUS MAP
REACH 11**

FIGURE 1



Print Date: 12/15/2016
Document Name: Reach 11 Land Status 2



THE NAVAJO NATION

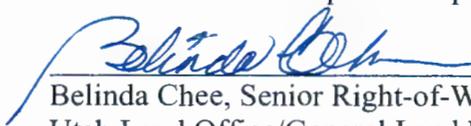
RUSSELL BEGAYE
JONATHAN NEZ

Utah Land Office/General Land Development Dept.
Post Office Box 410
Montezuma Creek, Utah 84534



MEMORANDUM

To: Ms. Elerina Yazzie, Program Manager
General Land Development Department/DNR

From: 
Belinda Chee, Senior Right-of-Way Agent
Utah Land Office/General Land Development Department

Date: April 14, 2017

Subject: Field Clearances for Navajo-Gallup Water Supply Project - Reaches 9 through 11 for Bureau of Reclamation

Pursuant to the Field Clearance request, the Utah Land Office has completed the below cited Field Clearances with three (3) Grazing Committee Members, Mr. Larry Tsosie of Bahastl'ah/Twin Lakes Chapter, Mr. Jonah Barney of Mexican Springs Chapter and Mr. Leonard McReeves of Tohatchi Community Chapter, and twelve (12) grazing permittees has consented. Thus, forward this proposed project for further processing and approval. The proposed projects are described below:

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/130/120/115/100/80 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

Continued – Page 2
Memorandum to: Elerina Yazzie/GLDD/DNR/NN
April 14, 2017

Previously I been filing away the original documents here at my office and send only copies, but from here on I will send the original to GLDD office and I will retain only the copies her at my office. For any inquiries, call me at (435) 651-3504, fax (435) 651-3506 or email at belchee@frontier.com And if you should have any questions to Bureau of Reclamation you may contact Mr. Barry Longwell, Project Construction Engineer at (505) 324-5001 or email at blongwell@usbr.gov Thank you.

Attachments

xc:
Barry Longwell, Project Construction Engineer/Bureau of Reclamation
Larry Tsosie, GCM/Twin Lakes Chapter/NN
Jonah Barney, GCM/Twin Lakes Chapter/NN
Leonard McReeves, GCM/Twin Lakes Chapter/NN
Akhtar Zaman, Director/Minerals Dept./NN
Shiprock NNEPA/NN
Bertha Spencer/BIA
File, Utah Land Office/GLDD/DNR/NN

FIELD CLEARANCE CHECKLIST

(This form covers only damages and compensation to individual land users. It does not cover consideration or other fees to the Navajo Nation. If necessary, use the back of this form for completion.)

1. Project Identification:

Applicant: Bureau of Reclamation, Four Corners Construction Office,
1235 La Plata Highway, Farmington, NM 87401.

Identification:

Purpose: The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/130/120/115/100/80 widths), containing 80.59 acres more or less,

2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and

3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

Location (legal description): 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West, 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): In the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West, and 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): In the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West.

Amount of land affected: 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/130/120/115/100/80 widths), containing 80.59 acres more or less, 2) TCE-Parcel No.

RCH 10-Tribal Trust-01(T): Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): Approximately 22,620 feet (4.28 miles) in length, and or varying width, containing 31.93 acres more or less. And total of distance of 79,923.64 feet/15.14 miles/118.87 acres.

Land status: Trust Fee Other

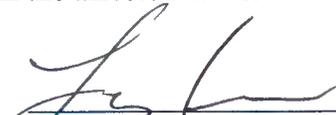
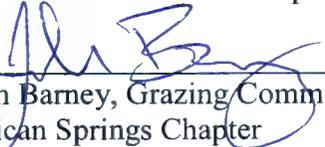
2. List of land use/grazing permittee whose land use rights will be affected project:

<u>Names</u>	<u>Census No.</u>	<u>Type of and Use Right</u>
a. Laverne Willie	602,973	Grazing Rights
b. Herman Cadman	49,530	Grazing Rights
c. Louise K. Wilson	98,945	Grazing Rights
d. Anthony Howard	609,670	Grazing Rights
e. Kenneth Howard	127,099	Grazing Rights
f. Edith Smith	41,540	Grazing Rights
g. Louise Musket	47,977	Grazing Rights
h. Etta M. Norris	41,152	Grazing Rights
i. Edwood Allison	90,227	Grazing Rights
j. William Allison	90,225	Grazing Rights
k. Emily Freeland	34,067	Grazing Rights
l. Angela Barney-Nez	100,935	Grazing Rights

3. Are all land users in the above list no. 4 with claims to the affected lands shown in the Branch of Land Operations records? Yes No
4. Have the Grazing Committee or Land Board Member (whichever is appropriate) for the affected area confirm the list no. 4 by signing acknowledgement form below.

ACKNOWLEDGEMENT

I acknowledge that due notice was given to the affected community of the proposed project, and according to my records and to the best of my knowledge, the list no. 4 includes all land users who have rights in the affected lands.

<p><u>4/13/17</u> Date</p>	<p> Larry Tsosie, Grazing Committee Member Bahastl'ah/Twin Lakes Chapter</p>	<p><u>14</u> District</p>
<p><u>4-13-17</u> Date</p>	<p> Jonah Barney, Grazing Committee Member Mexican Springs Chapter</p>	<p><u>14</u> District</p>
<p><u>4-14-17</u> Date</p>	<p> Leonard McReeves, Grazing Committee Member Tohatchi Community Chapter</p>	<p><u>14</u> District</p>

5. Are any damages expected to individual improvements? Yes No

If yes, contact the Director of Navajo Land Administration because special arrangements will have to be made to compensate for these damages.

If no give full explanations why: **No damages is expected to individual improvement. Surface damage compensation are waived.**

6. List of land users where diminishment in value of land use rights is expected and/or where land use rights is expected to be enhanced as a result of the project. Specify whether or not there is diminishment or enhancement in value of land use rights. Note whether or not land users have consented and which consent forms were used. (If no expected damages, use Consent Form No. 1.)

<u>Names</u>	<u>Expected Diminishment</u>	<u>Expected Enhancement</u>	<u>Did Land Users Consent? Form?</u>
a. Laverne Willie	None	None	Yes, consent #3
b. Herman Cadman	None	None	Yes, consent #3
c. Louise K. Wilson	None	None	Yes, consent #3
d. Anthony Howard	None	None	Yes, consent #3
e. Kenneth Howard	None	None	Yes, consent #3
f. Edith Smith	None	None	Yes, consent #3
g. Louise Musket	None	None	Yes, consent #3
h. Etta M. Norris	None	None	Yes, consent #3
i. Edwood Allison	None	None	Yes, consent #3
j. William Allison	None	None	Yes, consent #3
k. Emily Freeland	None	None	Yes, consent #3
l. Angela Barney-Nez	None	None	Yes, consent #3

7. List again the land users from list no. 8 where land use rights value will be diminished as a result of the project. Specify if land users is to receive compensation and the monetary amount in-kind compensation to be received, and use Consent Form No. 2. Indicate whether compensation is be received is adequate for the estimated damages to land use rights. Note whether land users have consented and which consent forms used. (If waiver of compensation for damages, use Consent Form No. 3.)

<u>Names</u>	<u>Compensation Amount</u>	<u>Is Amount Adequate</u>	<u>Did Land Users Consent? Form?</u>
a. Laverne Willie	Waived	Waived	Yes, consent #3
b. Herman Cadman	Waived	Waived	Yes, consent #3
c. Louise K. Wilson	Waived	Waived	Yes, consent #3
d. Anthony Howard	Waived	Waived	Yes, consent #3
e. Kenneth Howard	Waived	Waived	Yes, consent #3
f. Edith Smith	Waived	Waived	Yes, consent #3
g. Louise Musket	Waived	Waived	Yes, consent #3
h. Etta M. Norris	Waived	Waived	Yes, consent #3
i. Edwood Allison	Waived	Waived	Yes, consent #3
j. William Allison	Waived	Waived	Yes, consent #3
k. Emily Freeland	Waived	Waived	Yes, consent #3
l. Angela Barney-Nez	Waived	Waived	Yes, consent #3

8. How, when and by whom will land users be paid compensation? If any, is it specified in list no. 9 above?

Surface damages compensation will be waived.

9. Is a topographical map of the project attached? Yes No

10. Was the project fully explained to the land users? Yes No

11. Which chapter will be affected by the project? 3 Chapters: Bahastl'ah/Twin Lakes, Mexican Springs and Tohatchi Community Chapter

12. Are supporting chapter resolution attached? Yes No

13. Will chapter receive any payments or benefits from the project?

Yes No If yes, what will be received?

Approved by:

Field Clearance Conducted by:

UTAH LAND OFFICE/GLDD

General Land Development Department
(GLDD)



Belinda Chee, Senior Right of Way Agent

(GLDD approval necessary only if the
Field Clearance was conducted by
other than GLDD Office)

Date: April 14, 2017

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, Laverne Willie, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

3/22/17
Date

X Laverne Willie
Land User Signature / Thumbprint

Census No. 602973
Permit No. 14-04-98

Address: PO Box 121 Gamerao NM 87317
Phone No. _____

Witness: _____

3/21/17
Date

Larry Tsosie
Larry Tsosie, Grazing Committee Member of Twin Lakes Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read or fully explained to the land user in Navajo / / or English / (Check where applicable)

Belinda Chee
Field Agent Signature

Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, Herman Cadman, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

3/21/17
Date

Herman Cadman
Land User Signature / Thumbprint

Census No. 49530
Permit No. 14-05-80 5420
Address: PO Box 789, GAMERCO, NM. 87317
Phone No. _____

Witness: _____

3/21/17
Date

Larry Tsosie
Larry Tsosie, Grazing Committee Member of Twin Lakes Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read or fully explained to the land user in Navajo / or English / (Check where applicable)

Belinda Chee
Field Agent Signature

Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, Louise Wilson hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

3/24/17
Date

X Louise Wilson
Land User Signature / Thumbprint

Census No. 98,945
Permit No. 14-22-85

Address: PO BOX 2355, Gallup, NM
Phone No. _____

SU:20 87305
Issued: 9-26-85

Witness: _____

3/21/17
Date

[Signature]
Larry Tsosie, Grazing Committee
Twin Lakes Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read or fully explained to the land user in Navajo / or English / (Check where applicable)

[Signature]
Field Agent Signature
Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

Anthony Howard
I, Anthony Howard, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks: Reseed grass No Four wing salt Bush.

Date: 4/4/17
 Land User Signature / Thumbprint: X Anthony Howard
 Census No. 609-670
 Permit No. 14-4396
 Address: P.O. Box 4133 Gahfahag NM
 Phone No. 813 75

Witness: _____
4/13/17
 Date: _____
Larry Tsosie
 Larry Tsosie, Grazing Committee
 Twin Lakes Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read / fully explained / to the land user in Navajo / or English / (Check where applicable)

Belinda Chee
 Field Agent Signature
 Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, **Kenneth Howard**, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

4/15/17 Date
X  Land User Signature / Thumbprint
 Census No. 127.099
 Permit No. 14-497
 Address: P.O. Box 3781 Plateau Hwy NM 87375
 Phone No. 505-979-7625

Witness:

4/13/17 Date

 Larry Tsosie, Grazing Committee
 Twin Lakes Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read / or fully explained / to the land user in Navajo / or English / (Check where applicable)


 Field Agent Signature
 Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, Edith B. Smith, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

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- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

4-13-17 Date X Edith B Smith Land User Signature / Thumbprint Census No. 41540 GP
 Permit No. 14-08-04
 Address: PO Box 1973, Gallup, NM.
 Phone No. _____

Witness: _____
4/12/17 Date [Signature]
 Larry Toste, Grazing Committee
 Twin Lakes Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read / or fully explained / to the land user in Navajo / or English / (Check where applicable)

[Signature]
 Field Agent Signature
 Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, Louise Musket, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

4-4-17
Date

X Louise B. Musket
Land User Signature / Thumbprint

Census No. 47977

Permit No. 14-08-07

Address: P.O. Box 252 - Tohatchi, N. Mex 87525

Phone No. 505/879-1773

Witness: _____

4-13-17
Date

[Signature]
Jonah Barney, Grazing Committee Member of Mexican Springs Chapter

District No. 14

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read / or fully explained / to the land user in Navajo / or English / (Check where applicable)

[Signature]
Field Agent Signature

Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, Etta Norris, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

4-4-17 X Etta Norris Census No. 4115
 Date Land User Signature / Thumbprint Permit No. 14-03-08
 Address: Box 3633, Yatahey, N.M.
 Phone No. 480-707-3111 P 87375
 SH-100 Issued: 2008

Witness: _____
4-13-17 [Signature] District No. 14
 Date Jonah Barney, Grazing Committee Member of Mexican Springs Chapter

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read MT or fully explained LT to the land user in Navajo / LT / or English / / (Check where applicable)

[Signature]
 Field Agent Signature
 Belinda Chee, Senior Right of Way Agent

CONSENT FORM 3 (Waiver of Compensation for damages)

CONSENT TO USE
NAVAJO TRIBAL LANDS

TO WHOM IT MAY CONCERN:

I, William Allison, hereby grant consent to the Navajo Nation and the Bureau of Indian Affairs, Window Rock, Arizona, to permit:

Bureau of Reclamation, Four Corners Construction Office, 1235 La Plata Highway, Farmington, NM 87401.

To use a portion of my land use area for the following purpose(s):

The Temporary Construction Easement (TCE) will supplement the working space provided by the Permanent Right of Way, for the construction, operation, maintenance and/or replacement of a 48 inch in diameter, or smaller water transmission pipeline, over, across and through Navajo Nation Tribal Trust Lands that will be crossed by Reaches 9 through 11 of the San Juan Lateral, a part of the Navajo-Gallup Water Supply Project, in the area of the Naschitti, Tohatchi, Mexican Springs, Coyote Canyon, and Twin Lakes Navajo Tribal Chapters that are all located in New Mexico Principle Meridian, McKinley County, New Mexico.

- 1) TCE-Pipeline-Parcel No. RCH-9B-Tribal Trust-01(T): A Parcel of land crossing Navajo Nation Tribal Trust Land, and lying in Sections 16, 20, 21, 29, 31 and 32, Township 19 North, Range 17 West; and Sections 06, and 07, Township 18 North, Range 17 West, and Sections 12, 13, 23, 24 and 26, Township 18 North, Range 18 West. Said Parcel being approximately 51,759.64 feet (9.80 miles) in length, and or varying width (150/135/115 widths), containing 80.59 acres more or less,
- 2) TCE-Parcel No. RCH 10-Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the Southwest Quarter of (SW1/4) of Section 26, and the Southeast Quarter of the Southeast Quarter of the Southeast Quarter (SE1/4SE1/4SE1/4) of Section 27, and the Northeast Quarter (NE1/4) of Section 34, Township 18 North of Range 18 West. Approximately 5,544 feet (1.05 miles) in length, of varying width, containing approximately 6.35 acres more or less, and
- 3) TCE-Parcel No. RCH 11 Tribal Trust-01(T): A parcel of land crossing Navajo Nation Tribal Trust Land, and lying in the West Half of the East Half (W1/2E1/2), and the Southwest Quarter of (SW1/4) of Section 34, Township 18 North of Range 18 West; and, the Northwest Quarter (NW1/4) of Section 03, and the East Half (E1/2) of Section 04, and the Northeast Quarter (NE1/4) and the West Half (W1/2) of Section 09, and the Northwest Quarter (NW1/4) of Section 16, and the East Half (E1/2) of Section 17, all located in Township 17 North of Range 18 West. Approximately 22,620 feet (4.28 miles) in length, containing 31.93 acres more or less.

As shown on the map showing the location of the proposed project attached.

I hereby waive any rights I may have to compensation for the diminishment in value of my land use rights as a result of the above-referenced project as proposed.

Remarks:

3-17-17
Date

X William Allison
Land User Signature / Thumbprint

Census No. 99225
Permit No. 14-09-08

SU: 80

Address: PO Box 4429, Tatchay, NM 87375
Phone No. 505-905-1230

Witness: _____

4-15-17
Date Leonard McReeves

District No. 14
Leonard McReeves, Grazing Committee Member of Tohatchi Chapter

ACKNOWLEDGEMENT OF FIELD AGENT

I acknowledge that the consents of this consent form was read or fully explained to the land user in Navajo / or English / / (Check where applicable)

Belinda Chee
Field Agent Signature

Belinda Chee, Senior Right of Way Agent



Tohatchi Community Chapter
THE NAVAJO NATION
Post Office Box 1236, Tohatchi, N.M. 87325
Tel: (505) 733-2845/2846 FAX: (505) 733-2847

COPY

RESOLUTION OF TOHATCHI CHAPTER

**SUPPORTING AND APPROVING THE NAVAJO-GALLUP WATER SUPPLY
PROJECT WHICH WILL PROVIDE THE OPPORTUNITY FOR ACCESSIBLE
WATER TO THE TOHATCHI COMMUNITY.**

TOH: 050-3-2016

WHEREAS:

1. Pursuant to 26 N.T.C. Title 26; Chapter 1, Section 3 (A) under the Local Governance Act, Tohatchi Chapter is a certified Local Government entity of the Navajo Nation and codified at 11 N.N.C. Part 1 Section 10; and
2. Pursuant to Chapter 1, Section 1 (B)(1), (2) of the same "Act", Tohatchi Chapter is vested with the government authority with respect to local matters consistent with Navajo Law, including custom and tradition; and authority to make decisions over local matters and to govern with responsibility and accountability to the local citizens; and
3. The Navajo-Gallup Water Project is a project selected and made a priority of President Obama and his administration to create jobs and the Bureau of Reclamation is the lead Federal Agency tasked to construct the project with the assistance of the Navajo Nation, Jicarilla Apache Nation and City of Gallup; and
4. The Tohatchi Chapter sees this project to provide a reliable long term water supply to much needed area within our community and address future community and economical growth; and
5. The Tohatchi Chapter recognizes community members that live in rural areas do not have running water into their homes and this will provide more water to these areas so our community members will have and live a good quality of life.

NOW THEREFORE BE IT RESOLVED THAT:

The Tohatchi Chapter hereby supports and approves the Navajo-Gallup Water Project which will provide the opportunity for accessible to the Tohatchi Community.

CERTIFICATION

We hereby certify that the foregoing resolution was duly considered by the Tohatchi Chapter at a duly called chapter meeting at Tohatchi (Navajo Nation), New Mexico, at which a quorum was present and the same was passed by a vote of 34 in favor, 0 opposed, 4 abstained, this 28th day of March 2016.

Motion: Lupe Chee
Second: Manuel Shirleson


Herman Morris, President

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Mexican Springs Chapter

Richard Bowman, President
Roberta J. Becenti, Vice President
 of B. Muskett, Sec./Treasurer
Jonah Barney, Grazing Official



Peterson B. Yazzie - Interim Delegate
Christine Sam, Comm. Servs. Coordinator

P.O. Box 689, Tohatchi, NM 87325

RESOLUTION OF MEXICAN SPRINGS CHAPTER MS-01-2017-009

REAFFIRMING THE SUPPORT OF THE NAVAJO/GALLUP WATER SUPPLY PROJECT.

WHEREAS:

1. Pursuant to N.N.C. Title 26; Chapter 1, Section 3(A) under Local Governance Act, Mexican Springs Chapter is a certified local government entity of the Navajo Nation and codified at 11 N.N.C. Part 1 Section 10; and
2. Pursuant to Chapter 1, Section 1(B)(1) of the same "Act", Mexican Springs Chapter is vested with governmental authority with respect to local matters consistent with Navajo law, including custom and tradition; and
3. Pursuant to Chapter 1, Section 1(B)(2) of the same "Act", Mexican Springs Chapter is vested with the same authority to make decisions over local matters and to govern with responsibility and accountability to local citizens; and promotes, protects, preserves, the interest and general welfare, including the health and safety of its membership; and
4. Mexican Springs Chapter, by resolution number MXS-01-002-94 supported the continued planning for the Navajo/Gallup Water Supply project; and
5. On March 30, 2009, President Obama signed Public Law 111-11, also known as the "Omnibus Public Land Management Act of 2009" authorizing the Secretary of the Interior, acting through the Commissioner of Reclamation, to construct, operate, and maintain the Navajo/Gallup Water Supply Project in substantial accordance with the preferred alternative in the Final Environmental Impact Statement; and
6. In August 2011, the Navajo/Gallup Water Supply Project was identified by President Obama as one of the 14 infrastructure projects nationwide to be expedited through permitting and environmental review processes; and
7. The Bureau of Reclamation has the overall responsibility for the construction of the Navajo/Gallup Water Supply Project, however the Navajo Nation, the City of Gallup, and

COPY

Page Two (2)

Resolution Number: MS-01-2017-009

RE: Reaffirming the Navajo/Gallup Water Supply Project

the Indian Health Service will be responsible for the design and construction of various portions of the project through financial assistance agreements with Reclamation; and

8. Construction on the initial reach of the Project (Reach 12A) was completed in November 2013. Additional construction contracts are anticipated to be awarded in 2014 and the entire project is scheduled to be completed in 2024; and
9. The Mexican Springs Chapter sees this project to provide a reliable long term water supply to much needed area within our community and address future community and economical growth; and
10. Mexican Springs Chapter recognizes community members that live in rural areas do not have running water into their homes and this will provide more water to these areas so our community members will have and live a good quality of life.

NOW THEREFORE IT BE RESOLVED THAT:

Mexican Springs Chapter hereby approves to reaffirm the Navajo/Gallup Water Supply Project which will provide the opportunity for accessible water to the Mexican Springs community.

CERTIFICATION

I hereby certify that the foregoing Resolution was duly considered by Mexican Springs Chapter at a duly called chapter meeting at Mexican Springs (Navajo Nation), New Mexico, at which a quorum was present, and the same was passed by a vote of 20 in favor, 0 opposed, 5 abstained, this 13th day of JANUARY, 2017.

MOTION: Diane Bowman

SECOND: Arthur Barney



Richard Bowman, President
Mexican Springs Chapter



Twin Lakes

Bahastl'ah Chapter
Post Office Box 4424
Yahtahey, New Mexico 87375
Office (505) 735-2600/2601
Fax (505) 735-2605

Notah Barney,
President

Randolph Lee,
Vice President

Rita Silago,
Secretary/Treasurer

Mel R. Begay,
Council Delegate

BAHAS-11-06-03-322

RESOLUTION OF BAHASTL'AH CHAPTER

SUPPORTING THE DESIGN AND CONSTRUCTION
OF THE NAVAJO GALLUP WATER SUPPLY PROJECT

COPY

WHEREAS:

1. The Bahastl'ah Community Chapter is a duly certified Chapter under the Navajo Nation Government pursuant to 26 NNC, Section 3. There is a recognition of 110 Navajo Nation Chapters as being certified and enumerated at 11 NNC, Section 10 of which Bahastl'ah Chapter is included; and
2. Public Law 111-11, Section 10601, authorized the Secretary of the Interior, acting through the Commissioner of Reclamation to design and construct the Navajo Gallup Water Supply Project; and
3. The Navajo Gallup Water Supply Project will provide reliable and sustainable municipal, industrial, and domestic water supplies from the San Juan River to 43 Chapters of the Navajo Nation, the City of Gallup and the Southwest portion of the Jicarilla Apache Nation Reservation; and
4. The Bahastl'ah Chapter is one of the 43 chapters identified to be served by the proposed water supply project; and
5. The Bureau of Reclamation is currently designing and preparing to begin construction of the Navajo Gallup Water Supply Project; and
6. One of the initial Project phases includes conveying groundwater from Bahastl'ah to chapters east and west of Gallup in current need of water prior to San Juan River water delivery and to upgrade all existing water lines within Bahastl'ah area with assistance from proper entities and existing bylaws and procedures.

NOW THEREFORE BE IT RESOLVED THAT:

1. The Bahastl'ah Chapter fully supports the design, construction and implementation of the Navajo Gallup Water Supply Project; and the project is in the best interest of the Chapter and the Tribe; and
2. The chapter recognizes that the Project Participants, including the Navajo Nation, shall provide all land or interest in land, as appropriate, at no cost (P.L. 111-11 Section 10602 (c) (2)); and
3. The chapter will work cooperatively with the Navajo Nation, the Bureau of Reclamation and its agents to obtain any and all required approvals.

CERTIFICATION

We, the undersigned hereby certify that the foregoing resolution was duly presented and considered at a duly called Chapter meeting, at which a quorum was present and that the same was approved by a vote of 21 in favor, 05 opposed, and 08 abstained this 06th day of March, 2011.

Motion by: Thompson Johnson
Second by: Roy Lee Yazzie

Notah Barney, Chapter President



MEMORANDUM

To : NLTDS Reviewers

From : 
Diane Malone, Department Manager
NNEPA Waste Regulatory Compliance Department

Date : Fiscal Year 2017

Ref: Navajo Land Title Data System Electronic 164 Process Review

Pkt #: _____

To Whom it May concern

Navajo Nation Environmental Protection Agency Leaking Storage Tank Program (NNEPA/LSTP) is unaware of any leaking petroleum contaminated sites within the proposed area.

However, NNEPA/LSTP must be notified immediately if petroleum contamination is discovered during any activities anywhere within the specified area.

If you have any questions, please call the program at 928-871-7993.

C: Pam Maples, Environmental Specialist
Warren Roan, Environmental Specialist Navajo Nation EPA
Ms. Rebecca Jamison, USEPA Region IX Project Officer
NNEPA Files



THE NAVAJO NATION
ENVIRONMENTAL PROTECTION AGENCY

Public Water Systems Supervision Program
Post Office Box 339, Window Rock, AZ 86515
Telephone (928) 871-7755
Fax (928) 871-7818
www.navajopublicwater.org



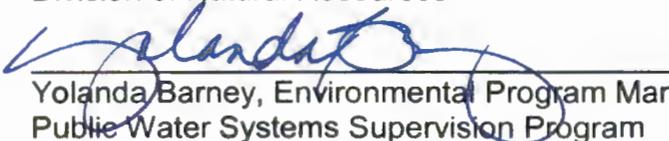
Russell Begaye
President

Jonathan Nez
Vice President

June 19, 2017

MEMORANDUM

TO: Navajo Land Title Data Systems
Land Department
Division of Natural Resources

FROM: 
Yolanda Barney, Environmental Program Manager
Public Water Systems Supervision Program
Surface and Ground Water Protection Department
Navajo Nation Environmental Protection Agency

SUBJECT: DOCUMENT No. 007409

The Navajo Nation Environmental Protection Agency's Public Water Systems Supervision Program ("PWSSP") reviewed Document No. 007409: Right-of-Way application from the U.S. Bureau of Reclamation for an Application for Consent to a grant of Right of Way (ROW) and Temporary Construction Easement (TCE) – Tribal Trust Land-Reaches 9 through 11 – San Juan Lateral – Navajo Gallup Water Supply Project, San Juan County, New Mexico. PWSSP recommends approval of the project.

All proposed drinking water projects will need to be permitted by the PWSSP-NNEPA. All proposed drinking water projects (extensions, upgrades, new wells, new public water systems, etc.) must also comply with the design review and construction permit requirements of the PWSSP pursuant §§1501 and 1601 of the Navajo Nation Primary Drinking Water Regulations.

All proposed wastewater projects will need to be permitted by the Domestic Wastewater Program-NNEPA. Extensions, upgrades, new sewer infrastructure, septic tanks, and other wastewater infrastructure must comply with the design review and construction permit requirements pursuant to §201 of the Domestic Wastewater Program.

If there are any questions, please contact me at 871-7755.

xc: PWSID#NN3500268
PWSID#NN3500237
PWSID#NN3500267
PWSID#NN3500274
PWSID#NN3500261
PWSSP files



THE NAVAJO NATION

RUSSELL BEGAYE PRESIDENT
JONATHAN NEZ VICE PRESIDENT



September 9, 2016

Lawrence S. Roberts
Assistant Secretary – Indian Affairs
Department of the Interior
MS-3642-MIB
1849 C Street, N.W.
Washington, D.C. 20240

Subject: Navajo Nation's Support of Waiver Request under 25 C.F.R. § 1.2, of the 25 C.F.R. § 169.103 Bond Requirement for all Navajo-Gallup Water Supply Project (NGWSP) Rights of Way

Dear Assistant Secretary Roberts:

The Navajo-Gallup Water Supply Project (NGWSP) is the cornerstone of the Navajo Nation San Juan River Basin in New Mexico Water Rights Settlement Agreement (Settlement). The Navajo Nation has been working closely with the Bureau of Reclamation and the Bureau of Indian Affairs (BIA) to ensure the project's completion by 2024, the deadline mandated by the authorizing legislation. As such, and through a financial assistance agreement with Reclamation, the Nation has taken an active role in designing and constructing a portion of the project on the Cutter Lateral.

One of the major undertakings involved in getting the project built is the acquisition of the right-of-way (ROW) necessary to construct, operate, and maintain the project. On April 21, 2016, new 25 C.F.R. Part 169 ROW Regulations took effect which differ in a significant way for purposes of NGWSP project completion from the pre-existing 25 C.F.R. §169 Regulations that had been in effect when Reclamation and the Nation began seeking consents from allottees for ROW across individual Indian allotments. The new regulations omitted BIA's authority to directly waive the bonding requirement when seeking ROW. The new regulations do allow grantees to seek a waiver from individual Indian allottees and tribes, but in the case of NGWSP, going back and seeking this consent for waiver now would result in significant delays and added expenses to the project.

We understand that Reclamation and BIA are in the process of seeking a waiver, under 25 C.F.R. § 1.2, of the 25 C.F.R. § 169.103 bond requirement for all NGWSP ROWs not issued prior to April 21, 2016. whether the ROW-holder is a federal agency or an agency of the Navajo Nation. The Nation fully supports their request and believes it is in the best interest of the Nation and its people. A waiver will help ensure that Reclamation's and the Nation's ROW acquisition process is not delayed on NGWSP which will result in the project getting completed within the legislated deadline which will benefit the Nation and its people.

Sincerely,

THE NAVAJO NATION

Russell Begaye, *President*



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Washington, DC 20240

NOV 22 2016

IN REPLY REFER TO:

Memorandum

To: Principal Deputy Assistant Secretary – Indian Affairs

From: ^{Acting} Director, Bureau of Indian Affairs

Subject: Request for Waiver under 25 CFR § 1.2 of the 25 CFR § 169.103 Bond Requirement for Right-of-Way Applications for the Navajo-Gallup Water Supply Project

The Navajo-Gallup Water Supply Project (NGWSP) in northwest New Mexico is the cornerstone of the Northwestern New Mexico Rural Water Projects Act, Pub. L. 111-11, § 10301 *et seq.* (March 30, 2009) (the Settlement Act) and the 2010 Navajo Nation San Juan River Water Rights Settlement Agreement between the Navajo Nation (the Nation), the State of New Mexico, and the United States. The NGWSP is a major infrastructure project comprising about 280 miles of pipeline, 24 pumping plants and two water treatment plants, as well as numerous water regulation and storage facilities, that altogether will provide a long-term, sustainable and reliable municipal and industrial water supply from the San Juan River Basin to more than 43 Chapters on the Navajo Reservation, to the southwest portion of the Jicarilla Apache reservation, and to the city of Gallup, New Mexico. The Settlement Act provides that all project features are to be completed no later than December 31, 2024, mandating an aggressive construction schedule for a project of this scale.

On October 11, 2011, President Obama designated the NGWSP as one of 14 federal infrastructure projects to be expedited through permitting and environmental review processes, in order to improve the efficiency of federal reviews needed to help infrastructure projects move as quickly as possible from the drawing board to completion. NGWSP was the only project within the Department of the Interior (Department) to be designated among these priority projects, which came as a result of a Presidential Memorandum dated August 31, 2011, in which President Obama directed agencies to expedite environmental reviews and permit decisions for a select number of high priority infrastructure projects.

In accordance with the President's directive, the Department has worked diligently to advance the NGWSP from the drawing board to completion, and in 2012, the Bureau of Reclamation (Reclamation) in coordination and cooperation with the Bureau of Indian Affairs (BIA) began the process of preparing rights-of-way (ROW) applications, including seeking consent for the ROW's from individual Indian allottees and the Nation. Reclamation has received the necessary consents from individual Indian allottees on 25 allotments where ROW's are needed for the project. This represents all of the allotted land required for the project. In addition, Reclamation has received consent from the Navajo Nation for two parcels of Navajo tribal land, and will be seeking consent for approximately seven more ROW applications across Navajo tribal land over the next two to three years for the remaining portion of pipeline to be constructed (approximately 100 miles).

While all of the necessary consents on allotted lands were received prior to April 21, 2016, the date the new 25 CFR Part 169 Right of Way Regulations took effect, and not all applications for ROW's across allotted lands have been submitted to BIA. For instance, Reclamation has not yet

completed applications for four out of the 25 parcels of allotted lands for which it has obtained consents. In addition, Reclamation recently received consent from the Navajo Nation on two tribal land parcels and another one is pending, but the associated ROW applications for those parcels were not submitted to BIA before the new ROW regulations took effect.

The timing of the submission of these post-April 21, 2016, ROW applications has introduced a critical issue because the new ROW regulations differ in a significant way for purposes of NGWSP project completion from the pre-existing 25 CFR Part 169 Right of Way Regulations that had been in effect when Reclamation began seeking consents for the NGWSP Project and the President identified the NGWSP as a high-priority project.

The old ROW regulations at 25 CFR § 169.5 (2015) permitted BIA to grant waivers to federal agencies for the bond requirement for ROWs, in recognition that the Anti-Deficiency Act prohibits federal agencies from contracting to broad-based indemnification terms. (See 25 CFR § 169.5 (2015) “When the applicant is the U.S. Government or a State Government or an instrumentally thereof and is prohibited by law from executing any of the above stipulations, the Secretary may waive the requirement that the applicant agree to any stipulations so prohibited.”)

The new ROW regulations omitted BIA’s authority to directly waive the bond requirement in recognition of federal agencies’ Anti-Deficiency Act limitations. (See 25 CFR § 169.103.) Instead, the new ROW regulations subject federal agencies to the bond requirements applicable to all other parties, and provide only two more nuanced avenues for waiver of the bond requirement; a 25 CFR § 1.2 waiver from the Assistant Secretary – Indian Affairs, or a 25 CFR § 169.103(f) waiver that requires allottees to request the waiver or for the BIA to defer to the Nation to the maximum extent possible for a determination that the waiver is in its best interest (depending upon whether the ROW is sought from allottees or the Nation). (See 25 CFR § 1.2 “[T]he Secretary retains the power to waive or make exceptions to his regulations as found in chapter 1 of title 25 CFR in all cases where permitted by law and the Secretary finds that such waiver or exception is in the best interest of the Indians;” and 25 CFR § 169.103(f) “We may waive the requirement for a bond, insurance, or alternative form of security: (1) For individually owned Indian land, if the Indian landowners of the majority of the interests request it and we determine, in writing, that a waiver is in the Indian landowners’ best interest considering the purpose of and risks associated with the right-of-way, or ... (2) For tribal land, deferring, to the maximum extent possible, to the tribe’s determination that a waiver of a bond, insurance or alternative form of security is in its best interest.”)

While 25 CFR § 169.103 provides for the waiver of the requirement for a bond, insurance, or alternative form of security so long as consent for such waiver is received from the tribe (for tribal trust land) or the majority of interests of individual Indian landowners (for allotted land), this was not sought for the pending NGWSP ROW applications because the consent process was initiated well before the new rules took effect (and 25 CFR Part 169 (2016) contained clear waiver language).

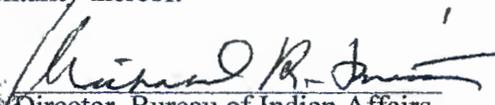
Reclamation and BIA recognize that although the consent process for the NGWSP ROW’s was initiated well before the new ROW regulations were proposed, the agencies could seek a determination from the Navajo Nation that waiver of the bond requirement for remaining or future trust land ROW applications would be in the Nation’s best interest, and that it could seek consent from a majority of allottees for a waiver of the bond requirement for remaining or future allottee ROW applications; however, engaging in this process would result in a significant impact to the construction schedule for the NGWSP, which in turn could impact the agencies’ ability to complete the project within its legislated deadline of 2024. (See Pub. L. 111 § 10701(e)(1)(A)(ix) (March 30, 2009) (“NAVAJO-GALLUP WATER SUPPLY PROJECT— Not later than December 31, 2024, the construction of all Project facilities shall be completed.”).

Reclamation and the BIA recognize the allottee consent process for these ROWs took nearly four years, and re-engaging with the allottees to obtain their recommendations for waiver of the bond requirement likely will not allow Reclamation to meet the President's directive that the NGWSP move forward apace. Furthermore, re-submitting trust land ROW applications to the Nation that have either gone through, or are in the process of going through, the Nation's consent approval process would result in direct impacts to impending construction contracts where these ROWs are required. Therefore, Reclamation and BIA respectfully submit this waiver request, seeking a waiver, under 25 CFR § 1.2, of the 25 CFR § 169.103 bond requirement for all NGWSP ROWs not issued prior to April 21, 2016, whether the ROW applicant is a federal agency, a state agency, an agency of the Nation, or an instrumentality thereof. Reclamation and BIA request that the Assistant Secretary expedite review of this request in order to aid the Department in moving the NGWSP forward in the face of the unforeseen slow-down created by the application of the new ROW regulations, which unexpectedly omitted the federal agency bond waiver provision from the 25 CFR Part 169 (2016) ROW regulations.

In the spirit of the President's initiative, and in order to meet the aggressive Congressionally mandated schedule for completing this high-priority project, we respectfully request that the Assistant Secretary waive the 25 CFR § 169.103 bond requirement for all NGWSP ROWs not issued prior to April 21, 2016, recognizing that doing so is in the best interest of the Navajo Nation, the Jicarilla Apache Nation, and their members, because it will permit NGWSP construction to proceed in accordance with a schedule that will allow the project to be completed as directed by the President of the United States and Congress and project benefits bargained for by the Tribes on behalf of their members pursuant to a negotiated water settlement to accrue to the benefit of the Tribal communities served as contemplated under the Navajo San Juan Water Rights Settlement. The Navajo Nation confirmed that the waiver was in the best interest of the Nation in the attached letter of support signed by President Begaye dated September 9, 2016.

For the reasons stated herein, we recommend approval of the Assistant Secretary to waive the regulatory requirement under 25 CFR § 169.103 for a bond for all NGWSP ROWs not issued prior to April 21, 2016, whether the ROW applicant is a federal agency, a state agency, an agency of the Nation, or an instrumentality thereof.

Concur with waiver request:


Director, Bureau of Indian Affairs

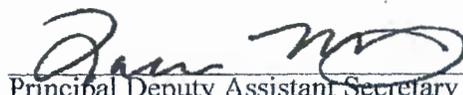
12/20/2016
Date

Do not concur with waiver request:

Director, Bureau of Indian Affairs

Date

Waiver Request is approved:


Principal Deputy Assistant Secretary – Indian Affairs

12/14/2016
Date

Waiver Request is denied:

Principal Deputy Assistant Secretary – Indian Affairs

Date

Attachment



EXHIBIT "E"

**NAVAJO NATION ROW TEMPORARY CONSTRUCTION EASEMENT
TERMS AND CONDITIONS: BUREAU OF RECLAMATION (GRANTEE)
(Navajo Gallup Water Supply Project Reaches 9B-11—San Juan Lateral)**

1. The term of the ROW temporary construction easement shall begin on the date it is granted by the Secretary of the Interior (Secretary) and shall continue as long as the Grantee Bureau of Reclamation (BOR) or its successors, or assigns uses the ROW temporary construction easement for the construction, operation, and maintenance of the Navajo Gallup Water Supply Project (Project).
2. The total consideration for the use of land for the temporary construction easement is assessed at \$3,001,438.984, which shall be the Navajo Nation's contribution to the Project because the Project will provide water to the Navajo Nation.

The Grantee must obtain the approval of the Navajo Nation if any portion of the ROW temporary construction easement is used for any other purpose than authorized by the approval of this right-of-way.

3. The Grantee may develop, use, and occupy the ROW temporary construction easement for the purpose(s) of constructing, operating, and maintaining the Navajo Gallup Water Supply Project. The Grantee may not develop, use, or occupy the ROW temporary construction easement for any other purpose without the prior written approval of the Navajo Nation and the Secretary of the Interior. The approval of the Navajo Nation may be granted, granted upon conditions, or withheld at the sole discretion of the Navajo Nation. The Grantee may not develop use or occupy the ROW temporary construction easement for any unlawful purpose.
4. In all activities conducted by the Grantee within the Navajo Nation, the Grantee shall abide by all applicable laws and regulations of the Navajo Nation and of the United States, now in force and effect or as hereafter may come into force and effect, including but not limited to the following:
 - a. Title 25, Code of Federal Regulations, Part 169;
 - b. All applicable federal and Navajo Nation antiquities laws and regulations, including compliance with the Programmatic Agreement for the Construction and Management of Effects on Historic Properties Arising from Construction of the Navajo Gallup Water Supply Project pursuant to Section 106 of the Nation Historic Preservation's regulation, last date of execution by all signatories being November 21, 2011, and any amendments thereto.
 - c. BOR shall give employment preference to qualifying Navajos and other Indians in accordance with applicable Navajo and federal law. BOR shall utilize Navajo

contractors and Navajo businesses (to purchase goods and materials) in accordance with applicable law.

- d. The Navajo Nation Water Code, 22 N.N.C. § 1101 et seq., to the extent that it is applicable. Grantee shall apply for and submit all applicable permits and information to the Navajo Nation Water Resources Department, or its successor.
5. The Grantee shall ensure that the air quality of the Navajo Nation is not jeopardized due to violation of applicable laws and regulations by its operations pursuant to the right-of-way.
6. The Grantee shall clear and keep clear the lands within the ROW temporary construction easement to the extent compatible with the purpose of the right-of-way, and shall dispose of all vegetation and other materials cut, uprooted, or otherwise accumulated during any surface disturbance activities.
7. The Grantee shall reclaim all surface disturbed related to the ROW temporary construction easement, as outlined in a restoration and re-vegetation plan, which shall be approved by the Navajo Nation Environmental Protection Agency (NNEPA) prior to any surface disturbance. The Grantee shall comply with all provisions of such restoration and re-vegetation plan and shall notify the Director of the NNEPA immediately upon completion of the surface disturbance activities so that a site inspection can be made.
8. The Grantee shall at all times during the term of the ROW temporary construction easement and at the Grantee's sole cost and expense, maintain the land subject to the ROW temporary construction easement and all improvements located thereon and make all necessary and reasonable repairs.
9. The Grantee shall obtain prior written permission to cross existing rights-of-way, if any, from the appropriate parties.
10. The Grantee shall be responsible for and promptly pay all damages when they are sustained provided that nothing herein shall be deemed to increase the liability of the United States beyond the provisions of the Federal Tort Claims Act, Act of June 25, 1948, 62 Stat. 982 (28 U.S.C. § 1346(b), 2671 et seq.) or other applicable law.
11. The Grantee shall not assign, convey, or transfer, in any manner whatsoever, the ROW temporary construction easement or any interest therein, or in or to any of the improvements on the land subject to the right-of-way, without the prior written consent of the Navajo Nation and the Secretary of the Interior. Any such attempted assignment, conveyance, or transfer without such prior written consent shall be void and of no effect. The consent of the Navajo Nation may be granted, granted upon conditions, or withheld at the sole discretion of the Navajo Nation. Congress has authorized BOR to transfer Project title under P.L. 111-11 1062 (f). It is anticipated that after Project title is transferred to the Navajo Nation, the Navajo Tribal Utility Authority will operate and maintain the Project. Therefore, the Grantee may assign and transfer the ROW temporary

construction easement to the Navajo Tribal Utility Authority as authorized by federal law without further approval of the Navajo Nation or the Secretary.

12. At the relinquishment of this right-of-way, the Grantee, other than the United States shall peaceably and without legal process deliver up the possession of the premises, in good condition, usual wear and tear expected. Upon the written request of the Navajo Nation, the Grantee shall provide the Navajo Nation, at the Grantee's sole cost and expense, with an environmental site assessment of the premises at least sixty (60) days prior to delivery of the said premises. This provision 12 shall not apply to the United States as Grantee.
13. Holding over by the Grantee after the relinquishment of the ROW temporary construction easement shall not constitute a renewal or extension thereof or give the Grantee any rights-of-way hereunder or in or to the land subject to the ROW temporary construction easement or to any improvements located thereon. This provision 13 shall not apply to the United States as Grantee.
14. The Navajo Nation and Secretary shall have the right, at any reasonable time during the term of the right-of-way, to enter upon the premises, or any part thereof, to inspect the same and any improvements located thereon.
15. By acceptance of the grant of right-of-way, the Grantee covenants and agrees never to contest or challenge the legislative, executive, or judicial jurisdiction of the Navajo Nation on the basis that such jurisdiction is inconsistent with the status of the Navajo Nation as an Indian nation, or that the Navajo Nation government is not a government of general jurisdiction, or that the Navajo Nation government does not possess full police power (i.e., the power to legislate and regulate for the general health and welfare of the Navajo people) over all lands, persons, and activities within its territorial boundaries, or on any other basis not generally applicable to a similar challenge to the jurisdiction of a state government. Nothing contained in this provision shall be construed to negate or impair federal responsibilities with respect to the land subject to the right-of-way or to the Navajo Nation.
16. Any action or claim brought against the Navajo Nation arising out of the injury to person or property (tort) may be heard in the Courts of the Navajo Nation in accordance with applicable Navajo and federal law. No action or claim shall be brought against the Navajo Nation in any state court.
17. Nothing contain herein shall be interpreted as constituting a waiver, express or implied, of the sovereign immunity of the Navajo Nation.
18. Except as prohibited by applicable federal law, the law of the Navajo Nation shall govern the construction, performance, and enforcement of the terms and conditions contained herein.
19. The terms and conditions contained herein shall extend to and be binding upon the successors, heirs, assigns, executors, administrators, employees, and agents, including all

contractors and subcontractors, of the Grantee, and the term "Grantee," whenever used herein shall be deemed to include all such successors, heirs, assigns, executors, administrators, employees, and agents.

20. There is expressly reserved to the Navajo Nation full territorial legislative, executive and judicial jurisdiction over the ROW temporary construction easement and all lands burdened by the right-of-way, including without limitation over all persons, including the public, and all activities conducted or otherwise occurring within the right-of-way; and the ROW temporary construction easement and all lands burdened by the ROW temporary construction easement shall remain Navajo Indian Country for purposes of Navajo Nation jurisdiction.



EXHIBIT "E-1"

**NAVAJO NATION RIGHT-OF-WAY TERM & CONDITIONS:
BUREAU OF RECLAMATION (GRANTEE)
(Navajo Gallup Water Supply Project Reaches 9B-11—San Juan Lateral)**

1. The term of the permanent right-of-way shall begin on the date it is granted by the Secretary of the Interior (Secretary) and shall continue as long as the Grantee Bureau of Reclamation (BOR) or its successors, or assigns uses the right-of-way for the construction, operation, and maintenance of the Navajo Gallup Water Supply Project (Project).
2. The annual consideration for the use of land is assessed at \$931,601.38 (annually adjusted), which shall be the Navajo Nation's contribution to the Project because the Project will provide water to the Navajo Nation.
3. The Grantee may develop, use, and occupy the right-of-way for the purpose(s) of constructing, operating, and maintaining the Navajo Gallup Water Supply Project. The Grantee may not develop, use, or occupy the right-of-way for any other purpose without the prior written approval of the Navajo Nation and the Secretary of the Interior. The approval of the Navajo Nation may be granted, granted upon conditions, or withheld at the sole discretion of the Navajo Nation.
4. In all activities conducted by the Grantee within the Navajo Nation, the Grantee shall abide by all applicable laws and regulations of the Navajo Nation and of the United States, now in force and effect or as hereafter may come into force and effect, including but not limited to the following:
 - a. Title 25, Code of Federal Regulations, Part 169;
 - b. All applicable federal and Navajo Nation antiquities laws and regulations, including compliance with the Programmatic Agreement for the Construction and Management of Effects on Historic Properties Arising from Construction of the Navajo Gallup Water Supply Project pursuant to Section 106 of the Nation Historic Preservation's regulation, last date of execution by all signatories being November 21, 2011, and any amendments thereto.
 - c. BOR shall give employment preference to qualifying Navajos and other Indians in accordance with applicable Navajo and federal law. BOR shall utilize Navajo contractors and Navajo businesses (to purchase goods and materials) in accordance with applicable law.
 - d. The Navajo Nation Water Code, 22 N.N.C. § 1101 et seq., to the extent that it is applicable. Grantee shall apply for and submit all applicable permits and information to the Navajo Nation Water Resources Department, or its successor.

TRUST LAND FORM

5. The Grantee shall ensure that the air quality of the Navajo Nation is not jeopardized due to violation of applicable laws and regulations by its operations pursuant to the right-of-way.
6. The Grantee shall clear and keep clear the lands within the right-of-way to the extent compatible with the purpose of the right-of-way, and shall dispose of all vegetation and other materials cut, uprooted, or otherwise accumulated during any surface disturbance activities.
7. The Grantee shall reclaim all surface disturbed related to the right-of-way, as outlined in a restoration and re-vegetation plan, which shall be approved by the Navajo Nation Environmental Protection Agency (NNEPA) prior to any surface disturbance. The Grantee shall comply with all provisions of such restoration and re-vegetation plan and shall notify the Director of the NNEPA immediately upon completion of the surface disturbance activities so that a site inspection can be made.
8. The Grantee shall at all times during the term of the right-of-way and at the Grantee's sole cost and expense, maintain the land subject to the right-of-way and all improvements located thereon and make all necessary and reasonable repairs.
9. The Grantee shall obtain prior written permission to cross existing rights-of-way, if any, from the appropriate parties.
10. The Grantee shall be responsible for and promptly pay all damages when they are sustained provided that nothing herein shall be deemed to increase the liability of the United States beyond the provisions of the Federal Tort Claims Act, Act of June 25, 1948, 62 Stat. 982 (28 U.S.C. § 1346(b), 2671 et seq.) or other applicable law.
11. The Grantee shall not assign, convey, or transfer, in any manner whatsoever, the right-of-way or any interest therein, or in or to any of the improvements on the land subject to the right-of-way, without the prior written consent of the Navajo Nation and the Secretary of the Interior. Any such attempted assignment, conveyance, or transfer without such prior written consent shall be void and of no effect. The consent of the Navajo Nation may be granted, granted upon conditions, or withheld at the sole discretion of the Navajo Nation. Congress has authorized BOR to transfer Project title under P.L. 111-11 1062 (f). It is anticipated that after Project title is transferred to the Navajo Nation, the Navajo Tribal Utility Authority will operate and maintain the Project. Therefore, the Grantee may assign and transfer the right-of-way to the Navajo Tribal Utility Authority as authorized by federal law without further approval of the Navajo Nation or the Secretary.
12. At the relinquishment of this right-of-way, the Grantee, other than the United States shall peaceably and without legal process deliver up the possession of the premises, in good condition, usual wear and tear expected. Upon the written request of the Navajo Nation, the Grantee shall provide the Navajo Nation, at the Grantee's sole cost and expense, with an environmental site assessment of the premises at least sixty (60) days prior to delivery of the said premises. This provision 12 shall not apply to the United States as Grantee.

TRUST LAND FORM

13. Holding over by the Grantee after the relinquishment of the right-of-way shall not constitute a renewal or extension thereof or give the Grantee any rights-of-way hereunder or in or to the land subject to the right-of-way, to enter upon the premises, or any part thereof, to inspect the same and any improvements located thereon.
14. The Navajo Nation and Secretary shall have the right, at any reasonable time during the term of the right-of-way, to enter upon the premises, or any part thereof, to inspect the same and any improvements located thereon.
15. By acceptance of the grant of right-of-way, the Grantee covenants and agrees never to contest or challenge the legislative, executive, or judicial jurisdiction of the Navajo Nation on the basis that such jurisdiction is inconsistent with the status of the Navajo Nation as an Indian nation, or that the Navajo Nation government is not a government of general jurisdiction, or that the Navajo Nation government does not possess full police power (i.e., the power to legislate and regulate for the general health and welfare of the Navajo people) over all lands, persons, and activities within its territorial boundaries, or on any other basis not generally applicable to a similar challenge to the jurisdiction of a state government. Nothing contained in this provision shall be construed to negate or impair federal responsibilities with respect to the land subject to the right-of-way or to the Navajo Nation.
16. Any action or claim brought against the Navajo Nation arising out of the injury to person or property (tort) may be heard in the Courts of the Navajo Nation in accordance with applicable Navajo and federal law. No action or claim shall be brought against the Navajo Nation in any state court.
17. Nothing contain herein shall be interpreted as constituting a waiver, express or implied, of the sovereign immunity of the Navajo Nation.
18. Except as prohibited by applicable federal law, the law of the Navajo Nation shall govern the construction, performance, and enforcement of the terms and conditions contained herein.
19. The terms and conditions contained herein shall extend to and be binding upon the successors, heirs, assigns, executors, administrators, employees, and agents, including all contractors and subcontractors, of the Grantee, and the term "Grantee," whenever used herein shall be deemed to include all such successors, heirs, assigns, executors, administrators, employees, and agents.
20. There is expressly reserved to the Navajo Nation full territorial legislative, executive and judicial jurisdiction over the right-of-way and all lands burdened by the right-of-way, including without limitation over all persons, including the public, and all activities conducted or otherwise occurring within the right-of-way; and the right-of-way and all lands burdened by the right-of-way shall remain Navajo Indian Country for purposes of Navajo Nation jurisdiction.

Bureau of Reclamation

Navajo Gallup Water Supply Project Reach 9B through 11

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EXECUTIVE ORDER NO. 03-2012

NAVAJO-GALLUP WATER SUPPLY PROJECT IS A NAVAJO NATION PRIORITY PROJECT; THE SUCCESS OF THIS HIGH-PROFILE PROJECT WILL SHOWCASE THE NAVAJO NATION AND ITS DIVISIONS AND PROGRAMS; AND WILL PROVIDE THE OPPORTUNITY FOR ACCESSIBLE WATER TO THE EASTERN NAVAJO NATION

January 3, 2012

WHEREAS:

The Navajo Gallup Water Supply Project (Project) is one of only fourteen projects selected nationwide to be a priority of President Obama and his administration to create jobs. Bureau of Reclamation is the lead federal agency tasked to construct the Project with the assistance of the Navajo Nation, Jicarilla Apache Nation and City of Gallup. This project is an enormous challenge for the Navajo Nation and its programs. However, it is also an excellent opportunity for the Navajo Nation to showcase its programs and their coordination in order to successfully complete this high profile project to President Obama and the rest of the United States.

The Project will provide a reliable long-term water supply to much of the Navajo Nation within New Mexico. The Project has an estimated construction cost of almost \$1 billion. In addition to the proposed United States' Presidential budget, the Bureau of Reclamation will receive up to \$60 million in mandatory appropriations during FY2012, FY2013 and FY2014 for a total of \$180 million that may be used for Project construction if all requirements to construction are met.

This Project continues to be a high priority for my administration as well. I would like to express my continued support for its expedited implementation and urge cooperation among all Navajo Nation programs to make this Project a reality. This Project is an example of the success brought about by years of hard work by staff and representatives of the Navajo Nation, State of New Mexico and United States.

Over the next several years the Project will be constructed in Reaches (phases). Construction may occur concurrently on several Reaches over the next several years. It is important that the Navajo Nation programs align themselves properly to coordinate information and permitting of the various Reaches of the Project. Navajo Nation Water Management Branch (NNWMB) of the Navajo Nation Department of Water Resources serves as the coordinator of

information within the Navajo Nation executive branch and the reviewer of public information, including all press releases, for the Navajo-Gallup Water Supply Project on behalf of the entire Navajo Nation. NNWMB may be reached at (928) 729-4004.

IT IS ORDERED THAT:

The Navajo Gallup Water Supply Project is a priority project of the Navajo Nation.

The programs within the Executive Branch are hereby directed to promptly process all necessary permits, contracts, any related matters to this Project for its successful coordination, implementation and construction. The programs and personnel are hereby directed to review and streamline their SAS review process.

THEREFORE BE IT RESOLVED, THAT:

I, Ben Shelly, President of the Navajo Nation, by the authority vested in the Office of the President pursuant to 2 N.N.C. §§ 1005 (A) and (C)(14), hereby direct this Executive Order shall become effective immediately and remain in effect until rescinded, to be binding upon Navajo Nation Executive Branch Directors, employees, and agents, and to be subjected to enforcement under the Navajo Nation Personnel Policies Manual.

Executed this 3rd day of January 2012.



Ben Shelly, President
THE NAVAJO NATION

ATTEST:



Harrison Tsosie, Attorney General
Navajo Nation Department of Justice



COYOTE CANYON CHAPTER • P.O. Box 257 • Brimhall, New Mexico 87310 • (505) 735-2204

CECIL SYLVERSMYTHE
COUNCIL DELEGATE

JAMES BLACKGOAT
PRESIDENT

IRENE S. BITSUI
SECRETARY/TREASURER

CAROLE TOM
COUNCIL DELEGATE

HARRISON PLUMMER
VICE PRESIDENT

GEORGE B. TSO
GRAZING COMMITTEE

COY12-084-93

RESOLUTION OF THE COYOTE CANYON CHAPTER

SUPPORTING THE NAVAJO/GALLUP WATER PROJECT:

WHEREAS:

1. The Coyote Canyon Chapter is a duly certified Chapter of the Navajo Nation is authorized by the Navajo Tribal Council to review, enact on needs affecting the community and make recommendations; and
2. The proposed Navajo/Gallup Water Supply Project will provide for future needs of treated water for domestic and commercial uses to Coyote Canyon Chapter.

NOW THEREFORE BE IT RESOLVED THAT:

1. The Coyote Canyon Chapter of the Navajo Nation supports actions necessary to realize construction of the Gallup/Navajo Water Supply Project scheduled to serve water needs of the Coyote Canyon Chapter area; and,
2. The Coyote Canyon Chapter of the Navajo Nation requests full public participation in the planning of the Navajo/Gallup Water Supply Project.

C E R T I F I C A T I O N

We hereby certify the foregoing resolution was duly considered by Coyote Canyon Chapter at a duly called meeting at Coyote Canyon, Navajo Nation (New Mexico) at which a quorum was present and same was passed by a vote 39 in favor, 00 opposed, and 00 abstained, this 12th day of December, 1993.

"HOME OF CHIEF MANUELITO"

Hastiin Ch'ilhaajinée



Cecil Sylversmythe
Cecil Sylversmythe, Council Delegate
Coyote Canyon Chapter

Carole Tom, Council Delegate
Carole Tom, Council Delegate
Coyote Canyon Chapter

James Blackgoat
James Blackgoat, President
Coyote Canyon Chapter

Harrison Plummer
Harrison Plummer, Vice President
Coyote Canyon Chapter

Irene S. Bitsui
Irene Bitsui, Secretary Treasurer
Coyote Canyon Chapter



MEXICAN SPRINGS CHAPTER

P. O. BOX 93 • MEXICAN SPRINGS, NEW MEXICO 87320 • (505) 733-2341

RESOLUTION

SUPPORTING CONTINUED PLANNING FOR THE NAVAJO/GALLUP WATER SUPPLY PROJECT.

MXS-01-002-94

WHEREAS:

1. The Mexican Springs Chapter is a certified chapter of the Navajo Nation, empowered to consider all community concerns and matter; and
2. Water is necessary for the future growth of the Mexican Springs community; and
3. The Mexican Springs Chapter is designated to be served by the Navajo/Gallup Water Supply Project.

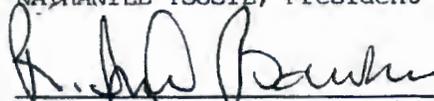
NOW THEREFORE BE IT RESOLVED THAT:

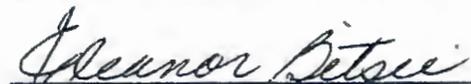
1. The Mexican Springs Chapter of the Navajo Nation supports continued planning for the Navajo/Gallup Water Supply Project.
2. The Navajo Public will be fully involved in the planning of the Navajo/Gallup Water Supply Project.
3. The Mexican Springs Chapter further requests to the Water Development Department to keep the community of Mexican Springs abreast on this said project.

C E R T I F I C A T I O N

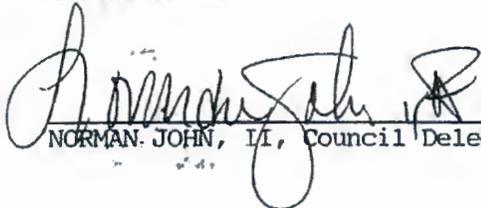
I hereby certify that the foregoing resolution was duly considered by the Mexican Springs Chapter at a duly called meeting at Mexican Springs, Navajo Nation, (New Mexico), at which a quorum was present and that same was passed by a motion made by MANUEL SHIRLESON and seconded by JULIUS BAHE, and a vote of 46 in favor, 0 opposed, and 0 abstained, this 9th day of JANUARY, 1994.


NATHANIEL TSOSSIE, President


RICHARD BOWMAN, Vice President


ELEANOR BITSIE, Secretary/Treas.

CONCURRENCE:


NORMAN JOHN, II, Council Delegate

nt:cs

NATHANIEL TSOSSIE • RICHARD BOWMAN • ELEANOR BITSIE • NORMAN JOHN II • JOSEPH BITSIE, SR.
PRESIDENT VICE PRESIDENT SECRETARY/TREASURER COUNCIL DELEGATE GRAZING COMMITTEE



Tohatchi Community Chapter
THE NAVAJO NATION
Post Office Box 1236, Tohatchi, N.M. 87325
Tel: (505) 733-2845/2846 FAX: (505) 733-2847

RESOLUTION OF TOHATCHI CHAPTER

SUPPORTING AND APPROVING THE NAVAJO-GALLUP WATER SUPPLY PROJECT WHICH WILL PROVIDE THE OPPORTUNITY FOR ACCESSIBLE WATER TO THE TOHATCHI COMMUNITY.

TOH: 050-3-2016

WHEREAS:

1. Pursuant to 26 N.T.C. Title 26; Chapter 1, Section 3 (A) under the Local Governance Act, Tohatchi Chapter is a certified Local Government entity of the Navajo Nation and codified at 11 N.N.C. Part 1 Section 10; and
2. Pursuant to Chapter 1, Section 1 (B)(1), (2) of the same "Act", Tohatchi Chapter is vested with the government authority with respect to local matters consistent with Navajo Law, including custom and tradition; and authority to make decisions over local matters and to govern with responsibility and accountability to the local citizens; and
3. The Navajo-Gallup Water Project is a project selected and made a priority of President Obama and his administration to create jobs and the Bureau of Reclamation is the lead Federal Agency tasked to construct the project with the assistance of the Navajo Nation, Jicarilla Apache Nation and City of Gallup; and
4. The Tohatchi Chapter sees this project to provide a reliable long term water supply to much needed area within our community and address future community and economical growth; and
5. The Tohatchi Chapter recognizes community members that live in rural areas do not have running water into their homes and this will provide more water to these areas so our community members will have and live a good quality of life.

NOW THEREFORE BE IT RESOLVED THAT:

The Tohatchi Chapter hereby supports and approves the Navajo-Gallup Water Project which will provide the opportunity for accessible to the Tohatchi Community.

CERTIFICATION

We hereby certify that the foregoing resolution was duly considered by the Tohatchi Chapter at a duly called chapter meeting at Tohatchi (Navajo Nation), New Mexico, at which a quorum was present and the same was passed by a vote of 34 in favor, 0 opposed, 4 abstained, this 28th day of March 2016.

Motion: Lupe Chee

Second: Manuel Shirleson

Handwritten signature of Herman Morris in black ink.
Herman Morris, President

Naschitti Community Governance

PO Drawer D, Sheepsprings, New Mexico 87364
Phone: 505-732-5400/5402 Fax: 505-732-5406



NAS-17-11-011

RESOLUTION OF NASCHITTI COMMUNITY GOVERNANCE

SUPPORTING NAVAJO GALLUP WATER SUPPLY PROJECT.

WHEREAS:

1. Pursuant to N.N. C. Title 26 Chapter 1, Section 3 (A), section 1 (B) (1) and Section 1 (B) (2) under the Local Government Act, Naschitti Community Governance is a certified local governmental entity of the Navajo Nation and is vested with the authority to address local concerns and the authority to make decisions with responsibility and accountability; and
2. Public Law 111-11, Section 10601, authorized the Secretary of the Interior, acting through the Commissioner of Reclamation to design and construct the Navajo Gallup Water Supply Project; and
3. The Navajo Gallup Water Supply Project will provide reliable and sustainable municipal, industrial, and domestic water supplies from the San Juan River to 43 Chapters of the Navajo Nation, the City of Gallup and the Southwest portion of the Jicarilla Apache Nation Reservation; and
4. The Naschitti Chapter is one of the 43 chapters identified to be served by the proposed water supply project; and
5. The Bureau of Reclamation is currently designing and preparing to begin construction of the Navajo Gallup Water Supply Project; and
6. One of the initial Project phases includes conveying groundwater from Naschitti to chapters east and west of Gallup in current need of water prior to San Juan River water delivery and to upgrade all existing water lines within Naschitti area with assistance from proper entities and existing bylaws and procedures.

NOW THEREFORE BE IT RESOLVED THAT:

1. The Naschitti Chapter fully supports the design, construction and implement of the Navajo Gallup Water Supply Project; and the project is in the best interest of the chapter and the tribe; and
2. the chapter recognizes that the Project Participants, including the Navajo Nation, shall provide all and or interest in land, as appropriate, at no cost (P.L., 111 -11 Section 10602) (c) (2); and
3. The Chapter will work cooperatively with the Navajo Nation, the Bureau of Reclamation and its agents to obtain any and all required approvals.

CERTIFICATION

I hereby certify that the foregoing resolution was duly considered by Naschitti Community Governance and moved for approval by Kee Y. Gee, seconded by Michael Clani at a duly called meeting at Naschitti, Navajo Nation, (New Mexico), at which a quorum was present and that same was passed by a Vote of -3- Yeyes, -1- Nays on this 6th day of November, 2016.


Hoskie Bryant, Commission President
Naschitti Community Governance

Hoskie Bryant
Commission President

Michael T. Clani
Commission Vice-President

Darlene Bitsoi
Commission Secretary/Treasurer

Gloria Dennison
Commission Member

Kee Y. Gee
Commission Member



Bahastl'ah Chapter
Post Office Box 4424
Yahtahey, New Mexico 87375
Office (505) 735-2600 / 2601
Fax (505) 735-2605

Notah Barney,
President

Randolph Lee,
Vice President

Rita Silago,
Secretary/Treasurer

Mel R. Begay,
Council Delegate

BAHAS-11-06-03-322

RESOLUTION OF BAHASTL'AH CHAPTER

**SUPPORTING THE DESIGN AND CONSTRUCTION
OF THE NAVAJO GALLUP WATER SUPPLY PROJECT**

WHEREAS:

1. The Bahastl'ah Community Chapter is a duly certified Chapter under the Navajo Nation Government pursuant to 26 NNC, Section 3. There is a recognition of 110 Navajo Nation Chapters as being certified and enumerated at 11 NNC, Section 10 of which Bahastl'ah Chapter is included; and
2. Public Law 111-11, Section 10601, authorized the Secretary of the Interior, acting through the Commissioner of Reclamation to design and construct the Navajo Gallup Water Supply Project; and
3. The Navajo Gallup Water Supply Project will provide reliable and sustainable municipal, industrial, and domestic water supplies from the San Juan River to 43 Chapters of the Navajo Nation, the City of Gallup and the Southwest portion of the Jicarilla Apache Nation Reservation; and
4. The Bahastl'ah Chapter is one of the 43 chapters identified to be served by the proposed water supply project; and
5. The Bureau of Reclamation is currently designing and preparing to begin construction of the Navajo Gallup Water Supply Project; and
6. One of the initial Project phases includes conveying groundwater from Bahastl'ah to chapters east and west of Gallup in current need of water prior to San Juan River water delivery and to upgrade all existing water lines within Bahastl'ah area with assistance from proper entities and existing bylaws and procedures.

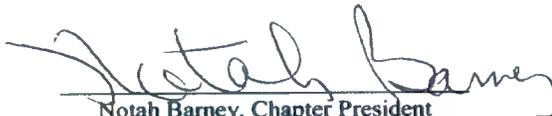
NOW THEREFORE BE IT RESOLVED THAT:

1. The Bahastl'ah Chapter fully supports the design, construction and implementation of the Navajo Gallup Water Supply Project; and the project is in the best interest of the Chapter and the Tribe; and
2. The chapter recognizes that the Project Participants, including the Navajo Nation, shall provide all land or interest in land, as appropriate, at no cost (P.L. 111-11 Section 10602 (c) (2)); and
3. The chapter will work cooperatively with the Navajo Nation, the Bureau of Reclamation and its agents to obtain any and all required approvals.

CERTIFICATION

We, the undersigned hereby certify that the foregoing resolution was duly presented and considered at a duly called Chapter meeting, at which a quorum was present and that the same was approved by a vote of 21 in favor, 05 opposed, and 08 abstained this 06th day of March, 2011.

Motion by: Thompson Johnson
 Second by: Roy Lee Yazzie


 Notah Barney, Chapter President

United States Department of the Interior
Bureau of Indian Affairs
Title Status Report

Report Certification Time and Date: 09/08/2011 08:00:00 PM

Requestor: ABOWMAN1 Date/Time: 08/02/2016 20:00:07

See Appendix C for Land Legal Descriptions

Title Status

Tract 791 T 8179 is held by the United States of America in trust for the land owner(s) with trust interests and/or by the land owner(s) with restricted interests and/or fee simple interests, as listed in Appendix "A" attached to and incorporated in this Title Status Report.

The title to Tract 791 T 8179 is current, complete, correct, and without defect. Ownership is in unity and interests are owned in the following title status: trust.

The tract ownership is encumbered by the title documents as listed on Appendix "B" attached to and incorporated in this Title Status Report.

No Tract Notes or Coded Remarks for this tract.

This report does not cover encroachments nor any other rights that might be disclosed by a physical inspection of the premises, nor questions of location or boundary that an accurate survey may disclose. This Report also does not cover encumbrances, including but not limited to irrigation charges, unpaid claims, not filed or recorded in this Land Titles and Records Office. This report does not state the current ownership of the interests owned in fee simple but states the ownership at the time the interest ceased to be held in trust or restricted ownership status.

This Title Status Report is a true and correct report of the status of title to the real estate described herein according to the official land records recorded and maintained in this office.

Appendix "A"

Effective Ownership as of 12/03/2004

---- OWNER ----				- DOCUMENT -		NAME IN WHICH	FRACTION TRACT	AGGREGATE SHARE	AGGREGATE
Tribe	Indian or Non-Indian	Title Status	Interest*	Class	Type	SURNAME/FIRST NAME	AS ACQUIRED	CONVERTED TO LCD	DECIMAL
NAVAJO NATION	Tribe	Trust	All	Treaty	SPEC AUT	NAVAJO TRIBE	1	1	
							1	1	1.0000000000

* "All" means the equitable beneficial interest and the legal title interest merged together.

IN TRUST:	1	1.0000000000
IN FEE:	0	.0000000000
TOTAL:	1	1.0000000000

Appendix "C"

Land Legal Description

<u>Land Area</u>	<u>Land Area Name</u>	<u>Tract Number</u>	<u>LTRO</u>	<u>Region</u>	<u>Agency</u>	<u>Resources</u>	
791	NAVAJO-NEW MEXICO	T 8179	SOUTHWEST	NAVAJO REGIONAL OFFICE	NAVAJO REGIONAL OFFICE	Both	
<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
1	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	S N S LOT 01= LOT 02= LOT 03= LOT 04=	160.000 320.000 40.070 40.180 40.280 40.390
2	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	S N S LOT 01= LOT 02= LOT 03= LOT 04=	160.000 320.000 40.420 40.370 40.330 40.280
3	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	S N S LOT 01= LOT 02= LOT 03= LOT 04=	160.000 320.000 40.260 40.260 40.260 40.260
4	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	S N S LOT 01= LOT 02= LOT 03= LOT 04=	160.000 320.000 40.250 40.230 40.210 40.190
5	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	S N S LOT 01= LOT 02= LOT 03= LOT 04=	160.000 320.000 40.170 40.150 40.130 40.110
6	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	SE NW E SW S NE SE LOT 01= LOT 02= LOT 03= LOT 04= LOT 05= LOT 06= LOT 07=	40.000 80.000 80.000 160.000 40.080 40.030 39.980 39.080 38.950 38.790 38.760
7	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W E LOT 01= LOT 02= LOT 03= LOT 04=	160.000 320.000 38.780 38.860 39.010 39.110
8	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
9	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	PROTRACTED SURVEY	640.000
10	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	PROTRACTED SURVEY	640.000

Appendix "C"

<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
11	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
12	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
13	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
14	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
15	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
16	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
17	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
18	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	39.170
						LOT 02=	39.180
						LOT 03=	39.200
						LOT 04=	39.210
19	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	39.230
						LOT 02=	39.270
						LOT 03=	39.290
						LOT 04=	39.330
20	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
21	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
22	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
23	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
24	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
25	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
26	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
27	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
28	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
29	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
30	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	39.350
						LOT 02=	39.380
						LOT 03=	39.400
						LOT 04=	39.430
31	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	39.450
						LOT 02=	39.490
						LOT 03=	39.510
						LOT 04=	39.550
32	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	

Appendix "C"

<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
33	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						
34	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						
35	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						
36	019.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						
TOTAL TRACT ACRES:							23025.670

United States Department of the Interior

Bureau of Indian Affairs

Title Status Report

Report Certification Time and Date: 08/01/2011 08:00:00 PM

Requestor: ABOWMAN1 Date/Time: 08/02/2016 20:02:07

See Appendix C for Land Legal Descriptions

Title Status

Tract 791 T 8182 is held by the United States of America in trust for the land owner(s) with trust interests and/or by the land owner(s) with restricted interests and/or fee simple interests, as listed in Appendix "A" attached to and incorporated in this Title Status Report.

The title to Tract 791 T 8182 is current, complete, correct, and without defect. Ownership is in unity and interests are owned in the following title status: trust.

The tract ownership is encumbered by the title documents as listed on Appendix "B" attached to and incorporated in this Title Status Report.

No Tract Notes or Coded Remarks for this tract.

This report does not cover encroachments nor any other rights that might be disclosed by a physical inspection of the premises, nor questions of location or boundary that an accurate survey may disclose. This Report also does not cover encumbrances, including but not limited to irrigation charges, unpaid claims, not filed or recorded in this Land Titles and Records Office. This report does not state the current ownership of the interests owned in fee simple but states the ownership at the time the interest ceased to be held in trust or restricted ownership status.

This Title Status Report is a true and correct report of the status of title to the real estate described herein according to the official land records recorded and maintained in this office.

Appendix "A"

Effective Ownership as of 12/03/2004

---- OWNER ----				- DOCUMENT -		NAME IN WHICH	FRACTION TRACT	AGGREGATE SHARE	AGGREGATE
Tribe	Indian or Non-Indian	Title Status	Interest*	Class	Type	SURNAME/FIRST NAME	AS ACQUIRED	CONVERTED TO LCD	DECIMAL
NAVAJO NATION	Tribe	Trust	All	Treaty		SPEC AUT NAVAJO TRIBE	1	1	
							1	1	1.0000000000

* "All" means the equitable beneficial interest and the legal title interest merged together.

IN TRUST:	1	
	1	1.0000000000
IN FEE:	0	
	1	.0000000000
TOTAL:	1	
	1	1.0000000000

Appendix "C"

Land Legal Description

<u>Land Area</u>	<u>Land Area Name</u>	<u>Tract Number</u>	<u>LTRO</u>	<u>Region</u>	<u>Agency</u>	<u>Resources</u>	
791	NAVAJO-NEW MEXICO	T 8182	SOUTHWEST	NAVAJO REGIONAL OFFICE	NAVAJO REGIONAL OFFICE	Both	
<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
1	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
2	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
3	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
4	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
5	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
6	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 04=	39.840
						LOT 05=	39.800
						LOT 06=	40.000
						LOT 07=	40.160
						PROTRACTED SURVEY	
7	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.260
						LOT 02=	40.240
						LOT 03=	40.230
						LOT 04=	40.230
						PROTRACTED SURVEY	
8	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
9	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
10	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
11	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
12	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
13	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
14	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
15	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
16	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
17	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
18	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.160
						LOT 02=	40.160
						LOT 03=	40.160
						LOT 04=	40.160
						PROTRACTED SURVEY	
19	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.160
						LOT 02=	40.150
						LOT 03=	40.150
						LOT 04=	40.140
						PROTRACTED SURVEY	
20	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	

Appendix "C"

<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
21	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
22	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
23	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
24	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
25	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
26	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
27	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
28	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
29	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
30	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
31	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROTRACTED SURVEY	
32	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROTRACTED SURVEY	
33	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROTRACTED SURVEY	
34	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROTRACTED SURVEY	
35	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROTRACTED SURVEY	
36	018.00N	017.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROTRACTED SURVEY	
TOTAL TRACT ACRES:							20162.000

United States Department of the Interior
Bureau of Indian Affairs
Title Status Report

Report Certification Time and Date: 12/27/2006 08:00:00 PM
Requestor: ABOWMAN1 Date/Time: 08/02/2016 20:03:10

See Appendix C for Land Legal Descriptions

Title Status

Tract 791 T 8183 is held by the United States of America in trust for the land owner(s) with trust interests and/or by the land owner(s) with restricted interests and/or fee simple interests, as listed in Appendix "A" attached to and incorporated in this Title Status Report.

The title to Tract 791 T 8183 is current, complete, correct, and without defect. Ownership is in unity and interests are owned in the following title status: trust.

The tract ownership is encumbered by the title documents as listed on Appendix "B" attached to and incorporated in this Title Status Report.

No Tract Notes or Coded Remarks for this tract.

This report does not cover encroachments nor any other rights that might be disclosed by a physical inspection of the premises, nor questions of location or boundary that an accurate survey may disclose. This Report also does not cover encumbrances, including but not limited to irrigation charges, unpaid claims, not filed or recorded in this Land Titles and Records Office. This report does not state the current ownership of the interests owned in fee simple but states the ownership at the time the interest ceased to be held in trust or restricted ownership status.

This Title Status Report is a true and correct report of the status of title to the real estate described herein according to the official land records recorded and maintained in this office.

Appendix "A"

Effective Ownership as of 12/03/2004

---- OWNER ----				- DOCUMENT -		NAME IN WHICH	FRACTION TRACT	AGGREGATE SHARE	AGGREGATE
Tribe	Indian or Non-Indian	Title Status	Interest*	Class	Type	SURNAME/FIRST NAME	AS ACQUIRED	CONVERTED TO LCD	DECIMAL
NAVAJO NATION	Tribe	Trust	All	Treaty		SPEC AUT NAVAJO TRIBE	1	1	
							1	1	1.0000000000

* "All" means the equitable beneficial interest and the legal title interest merged together

IN TRUST:	1	
	1	1.0000000000
IN FEE:	0	
	1	.0000000000
TOTAL:	1	
	1	1.0000000000

Appendix "C"

Land Legal Description

<u>Land Area</u>	<u>Land Area Name</u>	<u>Tract Number</u>	<u>LTRO</u>	<u>Region</u>	<u>Agency</u>	<u>Resources</u>	
791	NAVAJO-NEW MEXICO	T 8183	SOUTHWEST	NAVAJO REGIONAL OFFICE	NAVAJO REGIONAL OFFICE	Both	
<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
1	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.130
						LOT 02=	40.200
						LOT 03=	40.260
						LOT 04=	40.330
2	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.340
						LOT 02=	40.310
						LOT 03=	40.270
						LOT 04=	40.240
3	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.200
						LOT 02=	40.170
						LOT 03=	40.130
						LOT 04=	40.100
4	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.070
						LOT 02=	40.040
						LOT 03=	40.020
						LOT 04=	39.990
5	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	39.970
						LOT 02=	39.960
						LOT 03=	39.940
						LOT 04=	39.930
6	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	SE NW	40.000
						E SW	80.000
						S NE	80.000
						SE	160.000
						LOT 01=	39.930
						LOT 02=	39.950
						LOT 03=	39.970
						LOT 04=	38.950
						LOT 05=	38.920
						LOT 06=	38.880
						LOT 07=	38.840
7	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	38.850
						LOT 02=	38.930
						LOT 03=	38.990
						LOT 04=	39.070
8	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROJECTED SURVEY						
9	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROJECTED SURVEY						
10	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROJECTED SURVEY						

Appendix "C"

<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
11	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
12	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
13	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
14	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
15	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
16	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
17	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
18	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	39.130
						LOT 02=	39.180
						LOT 03=	39.240
						LOT 04=	39.290
						PROJECTED SURVEY	
19	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	39.350
						LOT 02=	39.420
						LOT 03=	39.480
						LOT 04=	39.550
20	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
21	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
22	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
23	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
24	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
25	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
26	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
27	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
28	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
29	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROJECTED SURVEY	
30	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	LOT 01=	39.610
						LOT 02=	39.670
						LOT 03=	39.730
						LOT 04=	39.790
31	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	NE NW	40.000
						N NE	80.000
						LOT 01=	39.850
32	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROJECTED SURVEY	
33	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROJECTED SURVEY	
34	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000
						PROJECTED SURVEY	
35	018.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N N	160.000

United States Department of the Interior
Bureau of Indian Affairs
Title Status Report

Report Certification Time and Date: 03/18/2010 08:00:00 PM

Requestor: ABOWMAN1 Date/Time: 08/02/2016 20:04:01

See Appendix C for Land Legal Descriptions

Title Status

Tract 791 T 10041 is held by the United States of America in trust for the land owner(s) with trust interests and/or by the land owner(s) with restricted interests and/or fee simple interests, as listed in Appendix "A" attached to and incorporated in this Title Status Report.

The title to Tract 791 T 10041 is current, complete, correct, and without defect. Ownership is in unity and interests are owned in the following title status: trust.

The tract ownership is encumbered by the title documents as listed on Appendix "B" attached to and incorporated in this Title Status Report.

No Tract Notes or Coded Remarks for this tract.

This report does not cover encroachments nor any other rights that might be disclosed by a physical inspection of the premises, nor questions of location or boundary that an accurate survey may disclose. This Report also does not cover encumbrances, including but not limited to irrigation charges, unpaid claims, not filed or recorded in this Land Titles and Records Office. This report does not state the current ownership of the interests owned in fee simple but states the ownership at the time the interest ceased to be held in trust or restricted ownership status.

This Title Status Report is a true and correct report of the status of title to the real estate described herein according to the official land records recorded and maintained in this office.

Appendix "A"

Effective Ownership as of 12/03/2004

----- OWNER -----				- DOCUMENT -		NAME IN WHICH	FRACTION TRACT	AGGREGATE SHARE	AGGREGATE
Tribe	Indian or Non-Indian	Title Status	Interest*	Class	Type	SURNAME/FIRST NAME	AS ACQUIRED	CONVERTED TO LCD	DECIMAL
NAVAJO NATION	Tribe	Trust	All	Executiv	SPEC AUT	NAVAJO TRIBE	1	1	
							1	1	1.0000000000

* "All" means the equitable beneficial interest and the legal title interest merged together.

IN TRUST:	1	1	1.0000000000
IN FEE:	0	1	.0000000000
TOTAL:	1	1	1.0000000000

Appendix "C"

Land Legal Description

<u>Land Area</u>	<u>Land Area Name</u>	<u>Tract Number</u>	<u>LTRO</u>	<u>Region</u>	<u>Agency</u>	<u>Resources</u>	
791	NAVAJO-NEW MEXICO	T 10041	SOUTHWEST	NAVAJO REGIONAL OFFICE	NAVAJO REGIONAL OFFICE	Both	
<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
1	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.120
						LOT 02=	40.190
						LOT 03=	40.260
						LOT 04=	40.330
	PROTRACTED SURVEY						
2	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.350
						LOT 02=	40.290
						LOT 03=	40.220
						LOT 04=	40.170
	PROTRACTED SURVEY						
3	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	40.100
						LOT 02=	40.030
						LOT 03=	39.950
						LOT 04=	39.880
	PROTRACTED SURVEY						
4	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	39.800
						LOT 02=	39.730
						LOT 03=	39.650
						LOT 04=	39.580
	PROTRACTED SURVEY						
5	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	S N	160.000
						S	320.000
						LOT 01=	39.500
						LOT 02=	39.420
						LOT 03=	39.340
						LOT 04=	39.260
	PROTRACTED SURVEY						
6	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	SE NW	40.000
						E SW	80.000
						S NE	80.000
						SE	160.000
						LOT 01=	39.150
						LOT 02=	38.970
						LOT 03=	38.760
						LOT 04=	38.670
						LOT 05=	40.270
						LOT 06=	40.430
						LOT 07=	40.580
	PROTRACTED SURVEY						
7	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.670
						LOT 02=	40.700
						LOT 03=	40.720
						LOT 04=	40.750
	PROTRACTED SURVEY						
8	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						
9	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						
10	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
	PROTRACTED SURVEY						

Appendix "C"

<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
11	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
12	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
13	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
14	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
15	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
16	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
17	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
18	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.750
						LOT 02=	40.720
						LOT 03=	40.700
						LOT 04=	40.670
						PROTRACTED SURVEY	
19	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.670
						LOT 02=	40.640
						LOT 03=	40.640
						LOT 04=	40.620
						PROTRACTED SURVEY	
20	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
21	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
22	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
23	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
24	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
25	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
26	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
27	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
28	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
29	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico		640.000
						PROTRACTED SURVEY	
30	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E W	160.000
						E	320.000
						LOT 01=	40.600
						LOT 02=	40.500
						LOT 03=	40.580
						LOT 04=	40.490
						PROTRACTED SURVEY	
31	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	E NW	80.000
						NE	160.000
						LOT 05=	40.430
						LOT 06=	40.360
						LOT 07=	14.230
						LOT 08=	14.880
						LOT 09=	14.500
						LOT 10=	14.240

Appendix "C"

<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>State</u>	<u>County</u>	<u>Meridian</u>	<u>Legal Description</u>	<u>Acres</u>
32	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N	320.000
						LOT 05=	10.210
						LOT 06=	10.380
						LOT 07=	10.640
						LOT 08=	12.100
33	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N	320.000
						LOT 05=	9.940
						LOT 06=	10.010
						LOT 07=	10.080
						LOT 08=	10.150
34	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N	320.000
						LOT 05=	9.850
						LOT 06=	9.870
						LOT 07=	9.870
						LOT 08=	9.890
35	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N	320.000
						LOT 05=	9.640
						LOT 06=	9.710
						LOT 07=	9.770
						LOT 08=	9.800
36	017.00N	018.00W	NEW MEXICO	MCKINLEY	New Mexico	N	320.000
						LOT 05=	9.090
						LOT 06=	9.230
						LOT 07=	9.370
						LOT 08=	9.510
TOTAL TRACT ACRES:							21383.170

LND 3.00 (NGWSP)
NGWSP Land Status



United States Department of the Interior
Bureau of Indian Affairs
Shiprock Agency
P.O. Box 3638
Shiprock, New Mexico 87420

IN REPLY REFER TO:
Real Estate Services/2N420

SEP 17 2009

OFFICIAL FILE COPY
RECEIVED BOR W.C.A.O.
GRAND JUNCTION

SEP 29 '09

CLASS _____
PRI. _____
CNTR. _____
FLDR. _____

CLASS	INITIALS	SURNAME
9/20	KBO	Ozga
		(Terry (D. M. 90))

C# 11034264
F# 1133234

ad10082011-23
5.2.11 Cd

Kathleen Ozga, Lands and Recreation Group Chief
Bureau of Reclamation
Upper Colorado Region
Western Colorado Area Office
2764 Compass Drive, Suite 106
Grand Junction, Colorado 81506-8785

Dear Ms. Ozga:

Your request for permission to initiate a preliminary surface survey for proposed San Juan Lateral water pipeline right-of-way within Shiprock, Sanostee, Two Grey I-Elis, Newcomb and Sheepsprings Chapters, Shiprock Agency, San Juan County, New Mexico is hereby granted.

Permission to survey includes conducting engineering feasibility studies for these projects. It also includes soil evaluation, preliminary archaeological, topographical right-of-way surveying, and other planning functions. You are subject to the respective terms and conditions signed by the Program and Project Specialist, Navajo Land Department dated August 14, 2009.

Approval of right-of-way is not implied. An application for right-of-way must be filed with our Agency.

Sincerely,

Regional Director

Enclosure

CND-3.00 (NGWSP)
NGWSP. 1 April 2010

RECEIVED

MAR 12 2010



United States Department of the Interior
BUREAU OF INDIAN AFFAIRS

Fort Defiance Agency
P.O. Box 619
Fort Defiance, Arizona 86504

WCAO-DURANGO, CO
OFFICIAL FILE COPY
RECEIVED BOR W.C.A.O.
GRAND JUNCTION

MAR 12 2010

CLASS _____
PRJ. _____
CNTR. _____
FLDR. _____

CLASS	INITIALS	SURNAME
379	KDO	KZGA
		ST
		ST

Real Estate Services
M/C: 6N420

MAR 01 2010

Ms. Kathleen Ozga
Lands and Recreation Group Chief
Bureau of Reclamation
Western Colorado Area Office
2764 Compass Drive, Suite 106
Grand Junction, CO 81506-8785

Dear Ms. Ozga:

10010082011-24
C#: 11034267
F#: 1133234
5.3.11 CA

Reference is made to your request for permission to survey to begin a surface investigation, walk on along the purposed pipeline corridor for the Navajo-Gallup Water Supply Project (San Juan Lateral) commencing from Naschitti, San Juan County, to Gallup, McKinley County, New Mexico. This investigation will determine if any problems exist prior to doing the center line alignment survey. This authorization is for Navajo trust lands only, does not include Indian Allotments or private lands.

The Navajo Nation has given its concurrence to the survey by letter dated August 14, 2009 (copy enclosed).

Authorization is hereby granted to proceed with the necessary survey subject to any prior rights or adverse claims and to all applicable regulations of 25 CFR. This authorization is for SURVEY ONLY. Upon completion, a formal application for right-of-way for the project should be submitted in accordance with 25 CFR 169 to the Regional Director, Bureau of Indian Affairs, Fort Defiance Agency, Attention: Real Estate Services, P. O. Box 619, Fort Defiance, Arizona 86504.

If you have any questions, please contact Oma M. Wauneka, Realty Specialist at (928) 729-7211.

Sincerely,

ACTING Regional Director

Enclosure

cc: Director, TNN, Project Review Office, Window Rock, Az



**OFFICE OF THE SECRETARY OF THE INTERIOR
EXECUTIVE SECRETARIAT
Correspondence Transmittal**

Date ES Received: 10/05/2016

ES Tracking #: ESO-00072732

Date Forwarded for Signature: 12/13/2016

To: Roberts, Lawrence S.
From: Pinto, Sharon
 BIA - Navajo Regional Office
Subject: Request for Waiver under 25 C.F. R. 1.2 of the 25 C.F.R. 169.103 Bond Requirement for Right-of-Way Applications for the Navajo-Gallup Water Supply Project

Response Summary: Request for Waiver under 25 CFR § 1.2 of the 25 CFR § 169.103 Bond Requirement for Right-of-Way Applications for the Navajo-Gallup Water Supply Project

Lead Response Office: IA OTS RES

Response Writer: IA OTS RES

<u>Surmaming Office</u>	<u>Approved By</u>	<u>Date Approved</u>
DBIA	M. Smith	11/22/2016
IA OTS	H. Riggs	11/22/2016
IA OTS RES	S. Roundface	11/22/2016
SOLDIA	J. Turner	11/22/2016
IA Advisor	C. Hastings	11/28/2016
IA COS	S. Walters	12/09/2016

Deputy Secretary _____

Associate Deputy Secretary _____

Executive Secretariat _____

12/14/16

Secretary _____

SIGMAC: _____ **Other (NOT SECRETARY):** _____

COMMENTS:



IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Washington, DC 20240

NOV 22 2016

Memorandum

To: Principal Deputy Assistant Secretary – Indian Affairs

From: ^{Acting} Director, Bureau of Indian Affairs

Subject: Request for Waiver under 25 CFR § 1.2 of the 25 CFR § 169.103 Bond Requirement for Right-of-Way Applications for the Navajo-Gallup Water Supply Project

The Navajo-Gallup Water Supply Project (NGWSP) in northwest New Mexico is the cornerstone of the Northwestern New Mexico Rural Water Projects Act, Pub. L. 111-11, § 10301 *et seq.* (March 30, 2009) (the Settlement Act) and the 2010 Navajo Nation San Juan River Water Rights Settlement Agreement between the Navajo Nation (the Nation), the State of New Mexico, and the United States. The NGWSP is a major infrastructure project comprising about 280 miles of pipeline, 24 pumping plants and two water treatment plants, as well as numerous water regulation and storage facilities, that altogether will provide a long-term, sustainable and reliable municipal and industrial water supply from the San Juan River Basin to more than 43 Chapters on the Navajo Reservation, to the southwest portion of the Jicarilla Apache reservation, and to the city of Gallup, New Mexico. The Settlement Act provides that all project features are to be completed no later than December 31, 2024, mandating an aggressive construction schedule for a project of this scale.

On October 11, 2011, President Obama designated the NGWSP as one of 14 federal infrastructure projects to be expedited through permitting and environmental review processes, in order to improve the efficiency of federal reviews needed to help infrastructure projects move as quickly as possible from the drawing board to completion. NGWSP was the only project within the Department of the Interior (Department) to be designated among these priority projects, which came as a result of a Presidential Memorandum dated August 31, 2011, in which President Obama directed agencies to expedite environmental reviews and permit decisions for a select number of high priority infrastructure projects.

In accordance with the President's directive, the Department has worked diligently to advance the NGWSP from the drawing board to completion, and in 2012, the Bureau of Reclamation (Reclamation) in coordination and cooperation with the Bureau of Indian Affairs (BIA) began the process of preparing rights-of-way (ROW) applications, including seeking consent for the ROW's from individual Indian allottees and the Nation. Reclamation has received the necessary consents from individual Indian allottees on 25 allotments where ROW's are needed for the project. This represents all of the allotted land required for the project. In addition, Reclamation has received consent from the Navajo Nation for two parcels of Navajo tribal land, and will be seeking consent for approximately seven more ROW applications across Navajo tribal land over the next two to three years for the remaining portion of pipeline to be constructed (approximately 100 miles).

While all of the necessary consents on allotted lands were received prior to April 21, 2016, the date the new 25 CFR Part 169 Right of Way Regulations took effect, and not all applications for ROW's across allotted lands have been submitted to BIA. For instance, Reclamation has not yet

completed applications for four out of the 25 parcels of allotted lands for which it has obtained consents. In addition, Reclamation recently received consent from the Navajo Nation on two tribal land parcels and another one is pending, but the associated ROW applications for those parcels were not submitted to BIA before the new ROW regulations took effect.

The timing of the submission of these post-April 21, 2016, ROW applications has introduced a critical issue because the new ROW regulations differ in a significant way for purposes of NGWSP project completion from the pre-existing 25 CFR Part 169 Right of Way Regulations that had been in effect when Reclamation began seeking consents for the NGWSP Project and the President identified the NGWSP as a high-priority project.

The old ROW regulations at 25 CFR § 169.5 (2015) permitted BIA to grant waivers to federal agencies for the bond requirement for ROWs, in recognition that the Anti-Deficiency Act prohibits federal agencies from contracting to broad-based indemnification terms. (See 25 CFR § 169.5 (2015) “When the applicant is the U.S. Government or a State Government or an instrumentally thereof and is prohibited by law from executing any of the above stipulations, the Secretary may waive the requirement that the applicant agree to any stipulations so prohibited.”)

The new ROW regulations omitted BIA’s authority to directly waive the bond requirement in recognition of federal agencies’ Anti-Deficiency Act limitations. (See 25 CFR § 169.103.) Instead, the new ROW regulations subject federal agencies to the bond requirements applicable to all other parties, and provide only two more nuanced avenues for waiver of the bond requirement; a 25 CFR §1.2 waiver from the Assistant Secretary – Indian Affairs, or a 25 CFR §169.103(f) waiver that requires allottees to request the waiver or for the BIA to defer to the Nation to the maximum extent possible for a determination that the waiver is in its best interest (depending upon whether the ROW is sought from allottees or the Nation). (See 25 CFR § 1.2 “[T]he Secretary retains the power to waive or make exceptions to his regulations as found in chapter 1 of title 25 CFR in all cases where permitted by law and the Secretary finds that such waiver or exception is in the best interest of the Indians;” and 25 CFR § 169.103(f) “We may waive the requirement for a bond, insurance, or alternative form of security: (1) For individually owned Indian land, if the Indian landowners of the majority of the interests request it and we determine, in writing, that a waiver is in the Indian landowners’ best interest considering the purpose of and risks associated with the right-of-way, or ... (2) For tribal land, deferring, to the maximum extent possible, to the tribe’s determination that a waiver of a bond, insurance or alternative form of security is in its best interest.”)

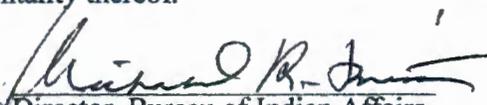
While 25 CFR § 169.103 provides for the waiver of the requirement for a bond, insurance, or alternative form of security so long as consent for such waiver is received from the tribe (for tribal trust land) or the majority of interests of individual Indian landowners (for allotted land), this was not sought for the pending NGWSP ROW applications because the consent process was initiated well before the new rules took effect (and 25 CFR Part 169 (2016) contained clear waiver language).

Reclamation and BIA recognize that although the consent process for the NGWSP ROW’s was initiated well before the new ROW regulations were proposed, the agencies could seek a determination from the Navajo Nation that waiver of the bond requirement for remaining or future trust land ROW applications would be in the Nation’s best interest, and that it could seek consent from a majority of allottees for a waiver of the bond requirement for remaining or future allottee ROW applications; however, engaging in this process would result in a significant impact to the construction schedule for the NGWSP, which in turn could impact the agencies’ ability to complete the project within its legislated deadline of 2024. (See Pub. L. 111 §10701(e)(1)(A)(ix) (March 30, 2009)(“NAVAJO-GALLUP WATER SUPPLY PROJECT— Not later than December 31, 2024, the construction of all Project facilities shall be completed.”).

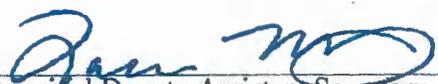
Reclamation and the BIA recognize the allottee consent process for these ROWs took nearly four years, and re-engaging with the allottees to obtain their recommendations for waiver of the bond requirement likely will not allow Reclamation to meet the President's directive that the NGWSP move forward apace. Furthermore, re-submitting trust land ROW applications to the Nation that have either gone through, or are in the process of going through, the Nation's consent approval process would result in direct impacts to impending construction contracts where these ROWs are required. Therefore, Reclamation and BIA respectfully submit this waiver request, seeking a waiver, under 25 CFR § 1.2, of the 25 CFR § 169.103 bond requirement for all NGWSP ROWs not issued prior to April 21, 2016, whether the ROW applicant is a federal agency, a state agency, an agency of the Nation, or an instrumentality thereof. Reclamation and BIA request that the Assistant Secretary expedite review of this request in order to aid the Department in moving the NGWSP forward in the face of the unforeseen slow-down created by the application of the new ROW regulations, which unexpectedly omitted the federal agency bond waiver provision from the 25 CFR Part 169 (2016) ROW regulations.

In the spirit of the President's initiative, and in order to meet the aggressive Congressionally mandated schedule for completing this high-priority project, we respectfully request that the Assistant Secretary waive the 25 CFR § 169.103 bond requirement for all NGWSP ROWs not issued prior to April 21, 2016, recognizing that doing so is in the best interest of the Navajo Nation, the Jicarilla Apache Nation, and their members, because it will permit NGWSP construction to proceed in accordance with a schedule that will allow the project to be completed as directed by the President of the United States and Congress and project benefits bargained for by the Tribes on behalf of their members pursuant to a negotiated water settlement to accrue to the benefit of the Tribal communities served as contemplated under the Navajo San Juan Water Rights Settlement. The Navajo Nation confirmed that the waiver was in the best interest of the Nation in the attached letter of support signed by President Begaye dated September 9, 2016.

For the reasons stated herein, we recommend approval of the Assistant Secretary to waive the regulatory requirement under 25 CFR § 169.103 for a bond for all NGWSP ROWs not issued prior to April 21, 2016, whether the ROW applicant is a federal agency, a state agency, an agency of the Nation, or an instrumentality thereof.

Concur with waiver request:  12/20/2016
Director, Bureau of Indian Affairs Date

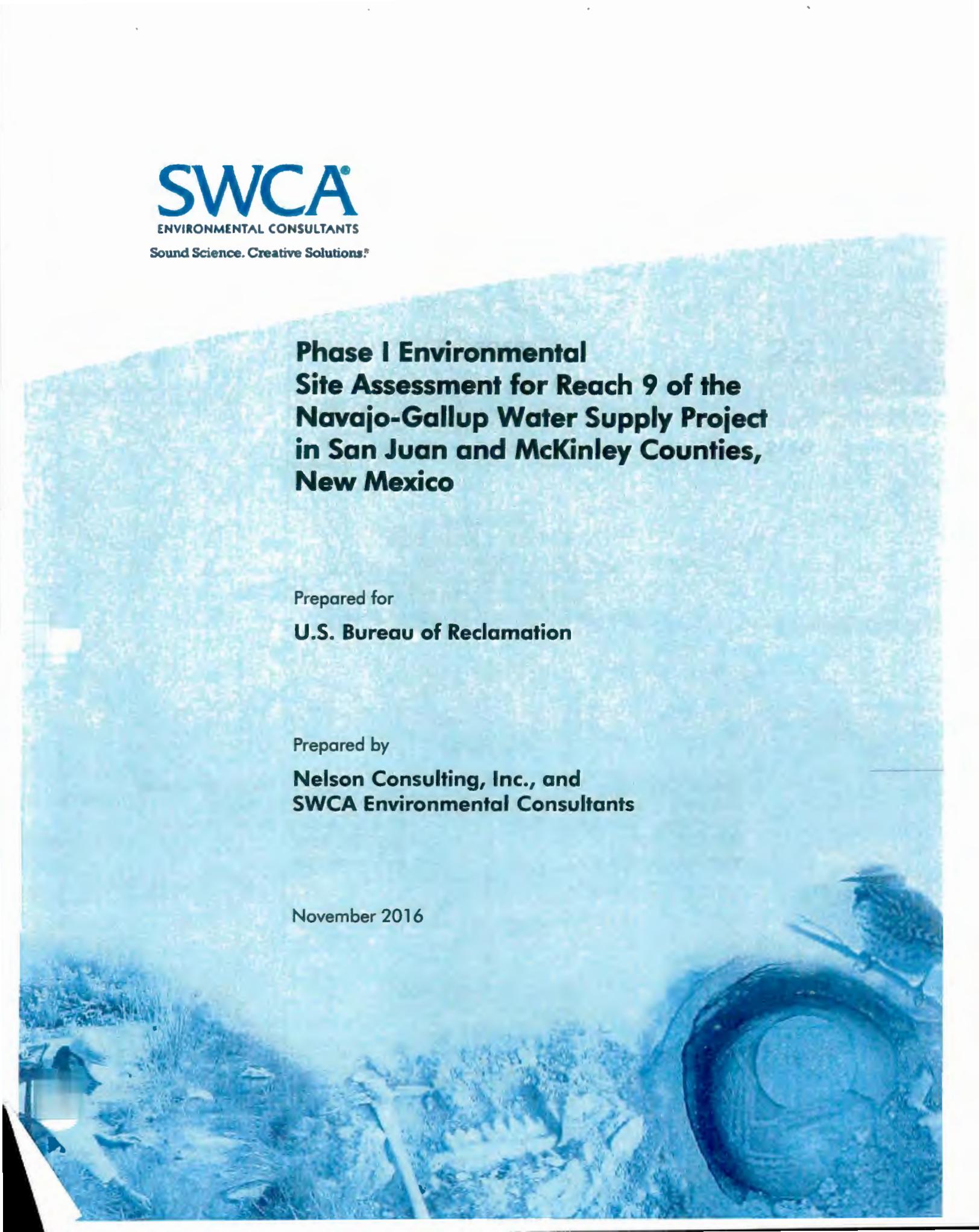
Do not concur with waiver request: _____
Director, Bureau of Indian Affairs Date

Waiver Request is approved:
 12/14/2016
Principal Deputy Assistant Secretary – Indian Affairs Date

Waiver Request is denied:

Principal Deputy Assistant Secretary – Indian Affairs Date

Attachment



SWCA

ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

**Phase I Environmental
Site Assessment for Reach 9 of the
Navajo-Gallup Water Supply Project
in San Juan and McKinley Counties,
New Mexico**

Prepared for

U.S. Bureau of Reclamation

Prepared by

**Nelson Consulting, Inc., and
SWCA Environmental Consultants**

November 2016

**PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR
REACH 9 OF THE NAVAJO-GALLUP WATER SUPPLY PROJECT
IN SAN JUAN AND MCKINLEY COUNTIES, NEW MEXICO**

Prepared for

U.S. Bureau of Reclamation
Western Colorado Area Office, Grand Junction
445 West Gunnison Avenue, Suite 221
Grand Junction, Colorado 81501
Attn: MRutheyi Thompson (Contracting Officer's Representative)

On behalf of
U.S. Bureau of Reclamation
Upper Colorado Region
125 South State Street, Room 6107
Salt Lake City, Utah 84138
Attn: Lisa Laughbon (Contracting Officer)

Prepared by

Nelson Consulting, Inc. **and**
600 Reilly Avenue
Farmington, New Mexico 87401
(505) 327-6331
www.nel-con.com

SWCA Environmental Consultants
3033 North Central Avenue
Phoenix, Arizona 85012
(602) 274-3831
www.swca.com

Contract No. R13PC40003
Task Order No. R16PD00986

November 2016

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EXECUTIVE SUMMARY

This executive summary presents the results of a Phase I Environmental Site Assessment (Phase I ESA) for Reach 9 of the Navajo-Gallup Water Supply Project (NGWSP). Reach 9 (the “subject property”) is a 23.5-mile corridor that is 150 feet wide and runs between Reach 8 to the north and Reach 10 to the south. It also includes a 2.16-mile alternate alignment in the vicinity of the Gallup Compressor Station. It is located on the Navajo Nation in northwest New Mexico, and runs in a general north-south alignment from the town of Naschitti in San Juan County to a point 4 miles northeast of Twin Lakes in McKinley County.

The subject property is primarily vacant, undeveloped desert land, but it does border residential areas in the town of Naschitti, and the Gallup Compressor Station. South of the compressor station, it parallels an existing natural gas pipeline. The purpose of this Phase I ESA is to meet due diligence requirements under the Comprehensive Environmental Response, Compensation, and Liability Act as part of environmental investigations, documentation, and land acquisitions prior to construction of the NGWSP in fiscal year 2017.

The client provided a shapefile of the boundaries of the subject property, and this description was taken as an accurate and true representation of the site. Independent verification of the subject property boundaries was not conducted by SWCA Environmental Consultants (SWCA) as part of this Phase I ESA.

The following list presents selected findings of this Phase I ESA:

- SWCA’s review of historical aerial photographs and topographic maps did not identify any past uses of the subject property other than as vacant, undeveloped land that passes through the town of Naschitti and past a natural gas compressor station. Most adjacent properties have historically been undeveloped, except for the area around Naschitti, U.S. Route (U.S.) 491 adjacent to the west (from Naschitti to the compressor station), a gas pipeline adjacent to the west (south of the compressor station) that was installed sometime prior to 1958, and a few residences and dirt roads. Because no known historical sources of contamination were identified, the historical uses of the subject property and adjacent properties are not considered to be recognized environmental conditions (RECs) for the subject property.
- Sewage disposal ponds were mapped north of Naschitti in historical maps, 1,000 feet west of the subject property. Because they are not known to have produced contamination, because sewage ponds are not generally known to introduce hazardous substances or petroleum products to the environment, and because of their distance from the subject property, the abandoned ponds are not considered to be a REC for the subject property.
- SWCA’s interviews with personnel from the U.S. Bureau of Reclamation, Navajo Nation Water Quality & NPDES Program, and KMI found that they were not aware of any known contamination on the subject property. One person noted a nearby helium pipeline is exposed in places, and that the pipeline is wrapped or coated in asbestos-containing materials (ACM). However, this is not considered to be a REC because undisturbed ACM meets the definition of a de minimis condition, which does not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.
- One interviewee noted the following:
 - She stated there are leaking aboveground storage tanks (ASTs) and leaking underground storage tanks (LUSTs) at the old Naschitti Trading Post. However, because no ASTs or LUSTs were noted at this facility in any environmental database searches, and because of its distance from the subject property, this facility is not considered to be a REC for the subject property.

- The Navajo Tribal Utility Authority has a subsurface pipeline near Indian Service Route 691 just south of the proposed alignment. Because the presence of a pipeline does not indicate the likely presence of contamination, this pipeline is not considered to be a REC for the subject property.
- She stated that a dry pond depression near Indian Service Route 9657 is suspected to be a former livestock dip vat, based on anecdotal evidence from a sheep farmer in the area. Because no documentation of the vat was found elsewhere, because no unnatural depressions were observed in this location during the field visit or in aerial photography, and because the location of the depression was not identified, this potential dip vat is not considered to be a REC for the subject property.
- She noted that the school in Naschitti has no leach fields, and there is an aerator on the property. The school could be using a Class V injection well for sewage disposal, or it could be connected to the waste lagoons northeast of Naschitti. The aerator could be remaining from the closed LUST case at the school, or could be related to the waste disposal. Neither of these is considered to be a REC for the subject property
- Several large piles of discarded tires are located in the vicinity of Reach 9. Because observed tire piles were located downgradient of the reach, and because tires are considered to be inert debris and not sources of contamination, tire piles are not considered to be a REC for the subject property
- The New Mexico Department of Transportation yard at Buffalo Springs had at least one reportable petroleum spill that the Navajo Nation Environmental Protection Agency (EPA) is suspected to have addressed. Because of its distance from the subject property, and because the spill was addressed, a small quantity reportable spill at the facility is not be considered to be a REC for the subject property.
- There have been several uncontrolled air emissions at the compressor station. Air emissions do not meet the definition of a REC.
- According to the interviewee, there has been U.S. Environmental Protection Agency enforcement against the compressor station based on missed annual compliance certifications. The facility is listed as a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) of hazardous waste. The listing of a facility as a RCRA SQG, and violations related to missed compliance certifications do not indicate the presence of potential contamination.
- An abandoned house is located nearby the reach, where construction activities are suspected to have involved ACM. Off-site asbestos would be unlikely to affect the subject property; therefore, it is not considered to be a REC.
- She said that Navajo Nation surface sites contain other potential dip vats near the subject property. Because no documentation of the vats was found elsewhere, because no unnatural depressions were observed during the field visit or in aerial photography, and because the locations of the possible dip vats were not identified, unverified dip vats are not considered to indicate the likely presence of any hazardous substances at the subject property. Therefore, the potential dip vats are not considered to be a REC for the subject property.
- SWCA's interview with an Operations Manager for KMI found that there is no known contamination from the compressor station and there have not been any significant leaks or spills from the compressor station. All large tanks at the site have secondary containment. The old sewage pond at the site was abandoned and covered over around 1992, and there was no known

contamination from that pond. The only pond existing now is the lined pond that holds fresh water for cooling equipment.

- SWCA’s review of the Environmental Data Resources, Inc., environmental database report generated on September 12, 2016, and supplementary searches of a GeoSearch environmental database report and New Mexico Environment Department, New Mexico Bureau of Geology and Mineral Resources, and EPA databases did not identify the subject property in any databases. However, the following listings were identified in the vicinity of the subject property:
 - **Red Mesa #507, also known as Naschitti Trading Post**, located 1,000 feet west of the subject property in Naschitti, was listed in the Indian underground storage tank (UST) database. This facility had two gasoline USTs installed in 1961 that are permanently out of use. Two more USTs were installed in 1994 that are listed as being still in use. Because the old tanks are permanently out of use and were replaced by modern tanks, because of its distance from the subject property, and because no leaks, spills, or potential contamination was noted in conjunction with this listing, this facility is not considered to be a REC for the subject property.
 - **The Naschitti School**, located 700 feet west of the subject property in Naschitti, had two listings. It was listed in the Indian UST and Indian LUST databases. The UST database listing indicated that a gasoline UST was installed in 1971 and is permanently out of use. The tank had a suspected release. Because the tank is permanently out of use, and because the LUST case was closed with no further action, this facility is not considered to be a REC for the subject property.
 - **The NMDOT facility**, located 400 feet west of Reach 9, west of U.S. 491 in Buffalo Springs, was listed in the UST, LUST, and leaking AST databases. This facility reported a UST leak in 1991 and an AST leak sometime later. Because of its distance from the subject property, and because both leak cases were closed with no further action required, the leaks at this facility are not considered to be a REC for the subject property.
 - **The Gallup Compressor Station** was listed as a RCRA SQG. Because a listing in this database is not an indicator of potential contamination, and because no violations or enforcements were reported for this facility, it is not considered to be a REC for the subject property.
- SWCA’s review of mapping from the New Mexico State Land Office and the New Mexico Oil Conservation Division identified one gas well in the vicinity of the subject property:
 - **Pre-Ongard Well No. 001 (API No. 30-031-05301)** is mapped 600 feet west of the subject property, east of Tohatchee, where the subject property crosses Red Willow Wash, and a flowing water wellhouse currently exists. Because no complaints, incidents, or spills were noted in the listing, because the listed status of the well is “plugged, site released,” and because no evidence of potential contamination was noted at this location during the site reconnaissance, this well is not considered to be a REC for the subject property.
- SWCA considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any likely off-site sources of vapor intrusion or vapor encroachment to the subject property.
- SWCA’s reconnaissance of the Reach 9 corridor on September 15, 2016, verified the above general description of the subject property, and the following observations were made:
 - Except for the areas around Naschitti and the Gallup Compressor Station, the subject property and vicinity are primarily vacant, undeveloped desert land in all directions.

- A 7.5-acre treatment lagoon with two chambers was present 0.25 mile east of the corridor, north of Naschitti. Because it is not known to have produced contamination, because of its distance from the subject property, and because of its location downgradient of the subject property, the lagoon is not considered to be a REC for the subject property.
- A stockyard is present adjacent to the east of Reach 9 in Naschitti. Because no storage tanks or potential sources of contamination were observed at the stockyard, and because it is not listed in any of the environmental database searched, this facility is not considered to be a REC for the subject property.
- The Naschitti Elementary School is present across the highway, 700 feet west of Reach 9. Six large propane tanks were present in the east of the school property, and another three propane tanks were observed in the southwest. Because the tanks appeared to be in good general condition, and because no other potential sources of contamination were observed, the school is not considered to be a REC for the subject property.
- The Naschitti Trading Post is 1,000 feet west of the Reach 9 corridor. This facility does sell gasoline, but as noted above is not a LUST site. Because of its distance from the subject property and because no evidence of potential contamination, such as significant soil staining or unusual odors, was observed, this facility is not considered to be a REC for the subject property.
- A number of residences and some agricultural land were observed in the vicinity along the route of Reach 9. No potential sources of contamination were observed in residential areas.
- The subject property crosses a wash 1 mile north of Indian Service Route 692, where trash and debris was present in and near the wash, including household trash, a large amount of broken glass, and debris such as old tires, wood, and carpets. In addition, 275 feet to the east, two metal pipes crossing the wash were exposed by erosion. Because it appeared to be inert de minimis debris and because no unusual odors, stained soil, or evidence of leaks was observed, this location is not considered to be a REC for the subject property.
- A New Mexico Department of Transportation maintenance facility was observed west of U.S. 491, 400 feet west of Reach 9. It included a few office and storage buildings; piles of gravel, sand, and soil; a propane AST in the south of the facility; and two large ASTs near the middle of the facility. One of the ASTs was within secondary containment, whereas the other could not be observed. Because no evidence of potential contamination was observed and because the facility was not listed in the search environmental databases, this facility is not considered to be a REC for the subject property.
- The El Paso Natural Gas Gallup Compressor Station is located just south of Indian Service Route 9653. It is mostly vacant land, and it is apparent that buildings, lagoons, and other infrastructure formerly existed, as verified in historical mapping. The compressor station includes at least three large ASTs for labeled turbine oil, ambitrol (ethylene glycol-based coolant), and used oil, and they were within secondary containment. Another used oil AST was nearby. A lined lagoon was observed to be dry and did not appear to have been in use for some time. Abandoned lagoons in the east of this area, thought to be former sewage treatment lagoons, are barely distinguishable from surrounding land. Because the facility is not known to have produced contamination, because the current lagoon is lined, because of the distance of the lagoons from the subject property, and because no unusual odors, stained soils, or other evidence of

potential contamination was observed at or in the vicinity of the compressor station, this facility is not considered to be a REC for the subject property.

- Red Willow Wash was observed to be flowing during the site visit, fed by a wellhouse 650 feet upstream of Reach 9. Two concrete pads were present near the water well. Although a gas well is mapped near the wellhouse, none was found. Because no potential sources of contamination were identified, because no unusual odors were noted, and because no oily sheen was evident on the open water, the wellhouse is not considered to be a REC for the subject property.
- Except for some nearby cattle tanks, the remainder of the subject property and adjacent areas was vacant, undeveloped desert land.
- No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

SWCA has completed a Phase I ESA of the subject property based on information obtained during the site investigations conducted on September 15, 2016, and the information obtained through the activities of this Phase I ESA, excluding the limitations.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of Reach 9 of the NGWSP, in San Juan and McKinley Counties, New Mexico, the *property*. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (Phase I ESA) for Reach 9 of the Navajo-Gallup Water Supply Project (NGWSP). Reach 9 (the “subject property”) is a 23.5-mile corridor that is 150 feet wide and runs between Reach 8 to the north and Reach 10 to the south. It also includes a 2.16-mile alternate alignment in the vicinity of the Gallup Compressor Station. It is located on the Navajo Nation in northwest New Mexico, and runs in a general north-south alignment from the town of Naschitti in San Juan County to a point 4 miles northeast of Twin Lakes in McKinley County.

The subject property is primarily vacant, undeveloped desert land, but does run past residential areas in the town of Naschitti and past the Gallup Compressor Station. South of the compressor station, it parallels an existing natural gas pipeline. Nelson Consulting, Inc., and SWCA Environmental Consultants (SWCA) completed this Phase I ESA for the U.S. Bureau of Reclamation, in accordance with the August 19, 2016, proposed scope of work. A copy of the scope of work is included in Appendix A.

1.1 Purpose

The purpose of this Phase I ESA is to meet due diligence requirements under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as part of environmental investigations, documentation, and land acquisitions prior to construction of the NGWSP in fiscal year 2017. The NGWSP is a major infrastructure project that, once constructed, will convey a reliable municipal and industrial water supply from the San Juan River to the eastern section of the Navajo Nation, the southwestern portion of the Jicarilla Apache Nation, and the city of Gallup, New Mexico, by means of about 280 miles of pipeline, several pumping plants, and two water treatment plants. The project was authorized for construction by the Omnibus Public Lands Management Act of 2009 (Public Law 111-11) on March 30, 2009, as a major component of the Navajo Nation San Juan River Basin Water Rights Settlement in New Mexico (U.S. Bureau of Reclamation 2016).

The Phase I ESA was completed in general accordance with the standards described in the American Society for Testing and Materials (ASTM) Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM 2013) and with the guidance provided in 40 Code of Federal Regulations (CFR) 312, 33 CFR 137, CERCLA, the Oil Pollution Act of 1990, and other applicable guidance, ensuring that the report is consistent with accepted professional standards. Deletions or deviations from ASTM Standard E 1527-13 are documented in this report.

The goal of the processes established by ASTM Standard E 1527-13 is to assess the property, to the extent practical, for the potential presence of recognized environmental conditions (RECs), defined in the ASTM standard as “the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*.” De minimis conditions, which generally do not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies, are not RECs.

This Phase I ESA did not include activities such as inspections or sampling for the presence of asbestos-containing materials, radon, other radioactive substances, vapor intrusion, lead-based paint, non-hazardous wastes and materials, mold, or biological and medical wastes. No soil, air, or water samples were collected for this Phase I ESA.

1.2 Scope of Work

To achieve the objective referenced above, SWCA completed the following tasks. A copy of the scope of work is included in Appendix A.

- Reviewed intermittent topographic maps and/or aerial photographs.
- Surveyed relevant documents in order to assess the subject property's physiography, including a review of the local hydrogeology and geology of the surrounding area.
- Interviewed persons knowledgeable about the history of the property and vicinity.
- Reviewed applicable federal and state regulatory databases.
- Visually observed the subject property by walking on and driving around the subject property and visually observed the surrounding properties from the subject property perimeter.

1.3 Limitations

SWCA warrants that qualified professionals in conformance with ethical business practices and industry standards prepared this report. Credentials of the individuals involved in preparing this report are included in Appendix B.

Some standard historical sources are not readily available and thus were not used to prepare this Phase I ESA. Based on our professional experience with similar historically undeveloped rural properties, Sanborn fire insurance maps were assumed to not be available for the subject property. A city directory search was not conducted for the subject property because most of it is thought to never have been developed, and it does not have a street address.

Because of the size of the subject property and because most of the area is vacant land with no history of development, SWCA personnel used aerial photography and topographic maps to identify specific areas of the subject property that would require in-person observation. This provided information sufficient to satisfy the objectives of ASTM Standard E 1527-13. According to Section 4.5.2 of the standard,

All appropriate inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information. (ASTM 2013:10)

SWCA was not provided with recorded land-title records or judicial records of environmental liens and activity and use limitations (AULs). Because of the lack of available aerial photographs and U.S. Geological Survey (USGS) topographic maps, the suggested 5-year interval between photographs and topographic dates could not be followed for all photographs and maps reviewed. However, Sections 8.3 to 8.3.4 of ASTM Standard E 1527-13 allow for other historical sources to be relied on where standard historical sources, such as historical aerial photographs and historical topographic maps, are not reasonably ascertainable and where past experience of the Environmental Professional indicates that they are not likely to produce additional useful information.¹ Although not all standard historical sources dating

¹ Section 8.3.2 of ASTM Standard E 1527-13 states that "all obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the

back to 1940 were obtained for the subject property, historical topographic maps dating back to 1886 and interviews confirmed that the subject property was undeveloped in the past, except for some dirt roads. At that point, historical research was deemed to be complete because the objectives in Sections 8.3.1 through 8.3.2.2 of ASTM Standard E 1527-13 were achieved: 1) develop a history of the previous uses of the property and surrounding area sufficient to identify the likelihood of past uses' having led to recognized environmental conditions in connection with the property; 2) identify all obvious uses of the property from the present, back to the property's first developed use, or back to 1940, whichever is earlier; and 3) identify the general type of use.

According to Section 8.3.2.3 of the standard, "Data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met" (ASTM 2013:16). While the above represents a data gap, it does not represent a data failure. Because supplemental data sources provided sufficient information, this gap in the data is not thought to have affected SWCA's ability to identify RECs on the subject property. SWCA's findings and conclusions within this assessment do not take into consideration the limitations identified in this report.

The information contained in this report relates only to the subject property and should not be extrapolated or construed to apply to any other site. The description of the subject property as provided herein represents the conditions of the subject property as it existed on the date of the site reconnaissance. The contents of this report are valid as of the date shown on the report cover. The information presented in this report is intended for the exclusive use of the U.S. Bureau of Reclamation and its affiliates, underwriters, and lenders. Reliance of any other parties on the information presented herein is the sole responsibility of said parties.

2.0 PROPERTY DESCRIPTION

The subject property is Reach 9 of the NGWSP (Figures 1a through 1d). Reach 9 is a 23.5-mile corridor that is 150 feet wide and runs between Reach 8 to the north and Reach 10 to the south. It also includes a 2.16-mile alternate alignment in the vicinity of the Gallup Compressor Station. It is located on the Navajo Nation in northwest New Mexico, and runs in a general north-south alignment from the town of Naschitti in San Juan County to a point 4 miles northeast of Twin Lakes in McKinley County.

Reach 9 begins just north of Naschitti, New Mexico (Figure 2). The Reach 9 terminus is just south of a cemetery on the east side of U.S. Route (U.S.) 491. The alignment generally runs in a south-southeasterly direction, along the east side of U.S. 491, with a few shifts in route to circumvent geologic, cultural, and residential areas. The route shifts gradually to head directly south until it reaches the Gallup Compressor Station (Figure 3). At that point, the route shifts south-southwest and leaves U.S. 491 to parallel the adjacent alignment of the El Paso Natural Gas/Kinder Morgan underground natural gas pipeline until the end of the Reach 9 alignment, approximately 0.5 mile north of Navajo Service Route 9.

The subject property is primarily vacant, undeveloped desert land, but it does border residential areas in the town of Naschitti, and the Gallup Compressor Station. South of the compressor station, it parallels an existing natural gas pipeline. The subject property is depicted in Figures 1a through 1d.

standard historical sources as are necessary and both reasonably ascertainable and likely to be useful" (ASTM 2013:15). The ASTM standard also states that standard historical sources may be excluded if 1) the sources are not reasonably ascertainable, or 2) past experience indicates that the sources are not likely to be sufficiently useful in terms of satisfying the objectives. Based on our professional experience with many similar historically undeveloped rural properties, historical aerial photography for the subject property is not likely to be useful in terms of satisfying the objectives.



Figure 1a. Aerial view of subject property.

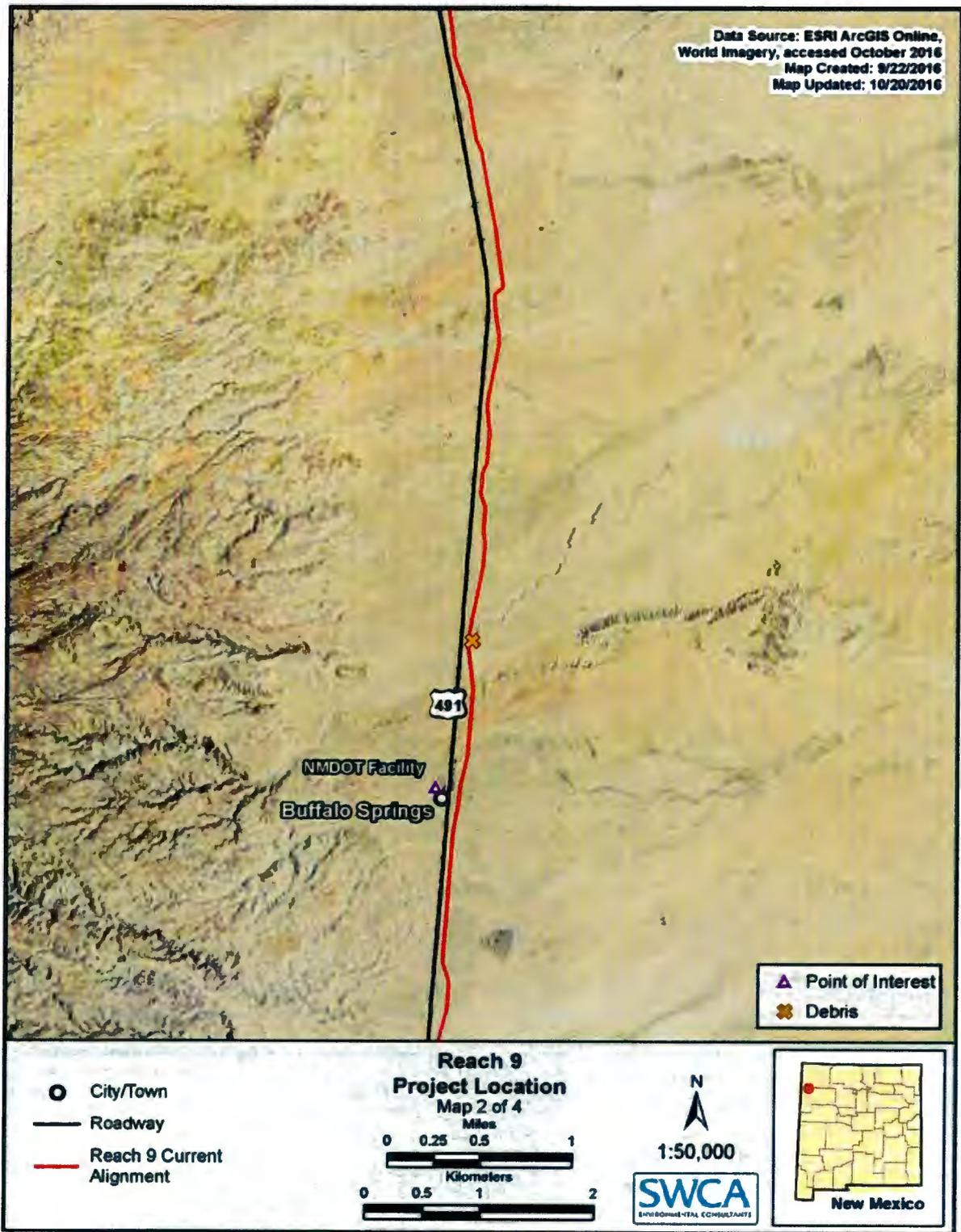


Figure 1b. Aerial view of subject property.

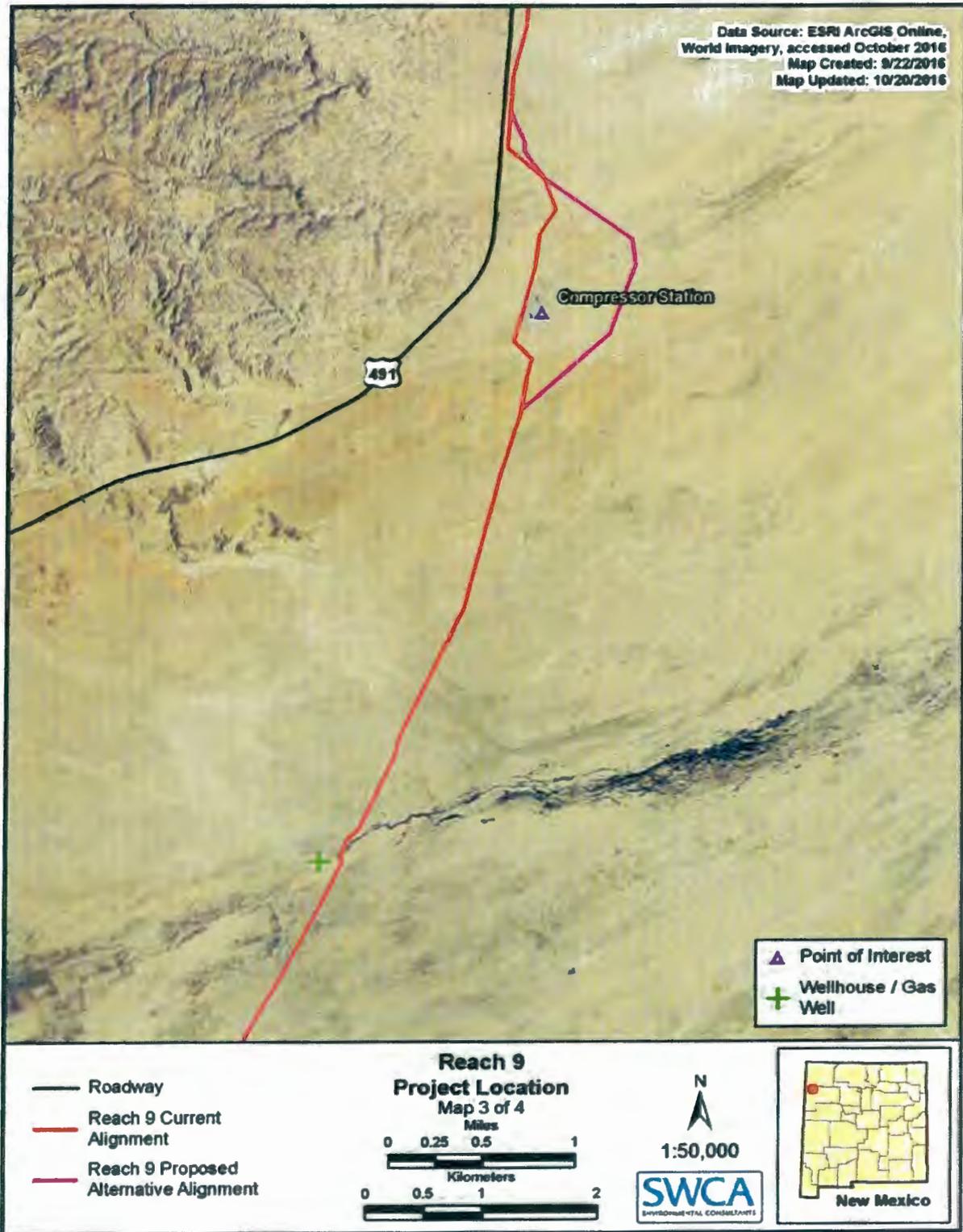


Figure 1c. Aerial view of subject property.

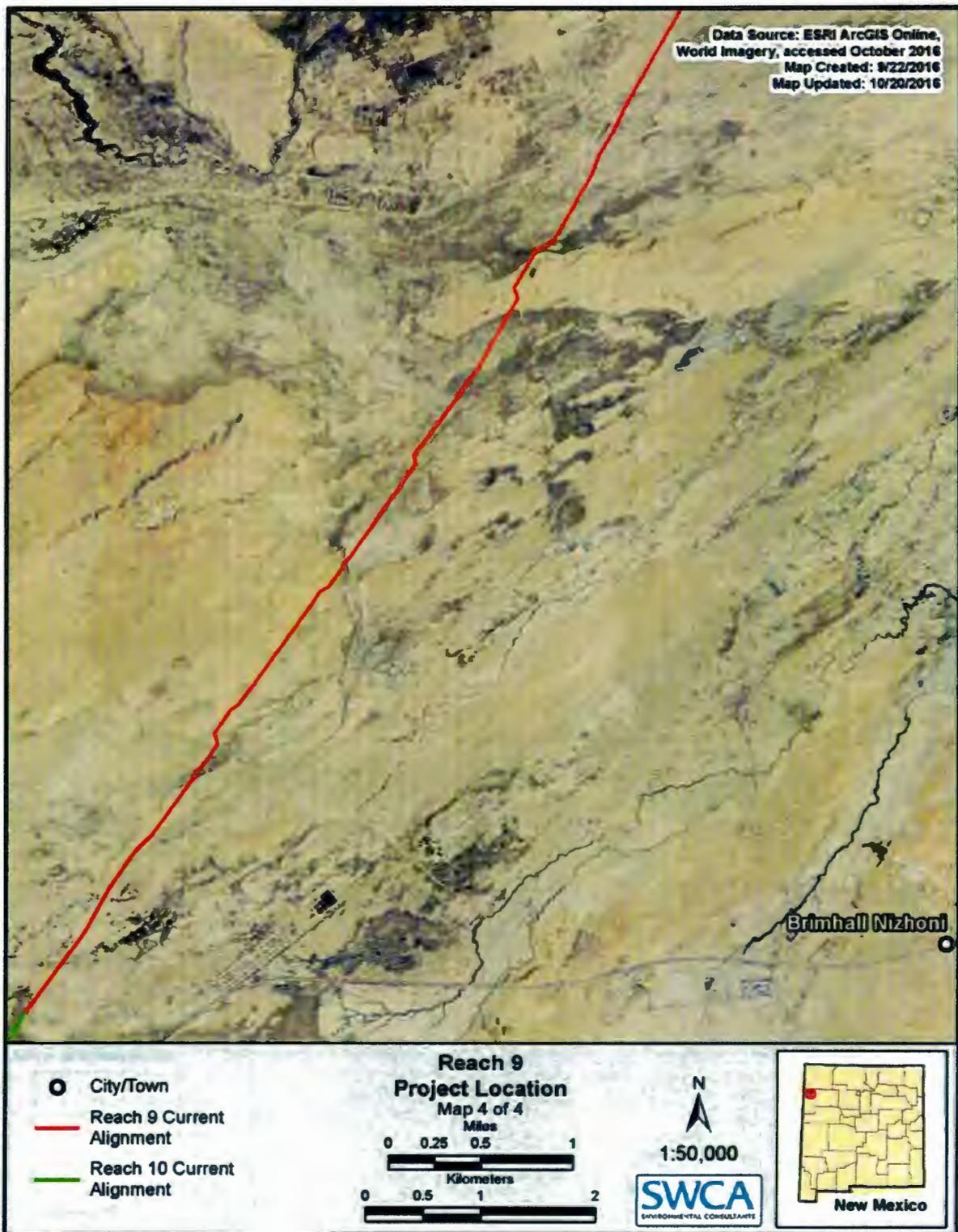


Figure 1d. Aerial view of subject property.

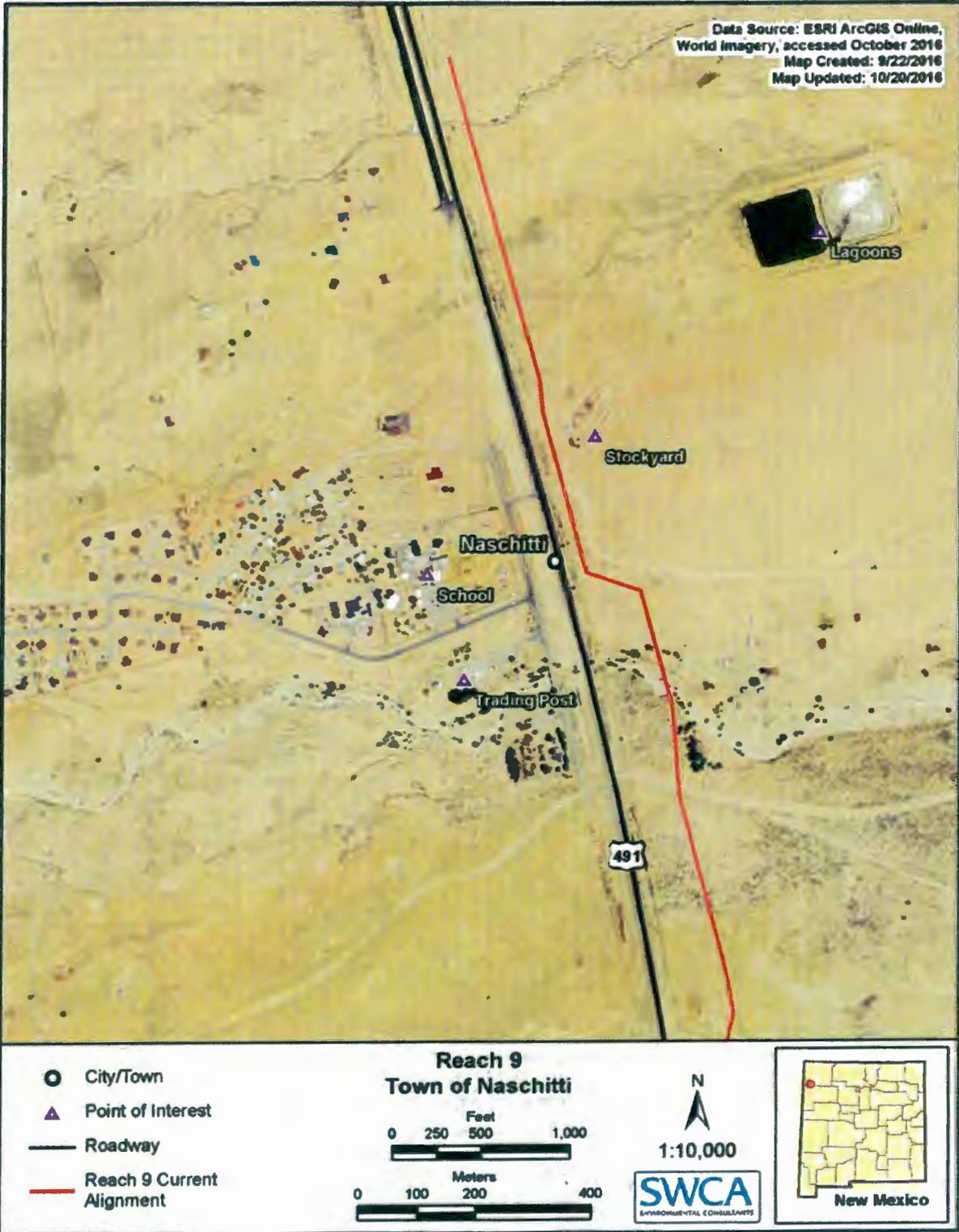


Figure 2. Aerial detail of Naschitti, New Mexico.

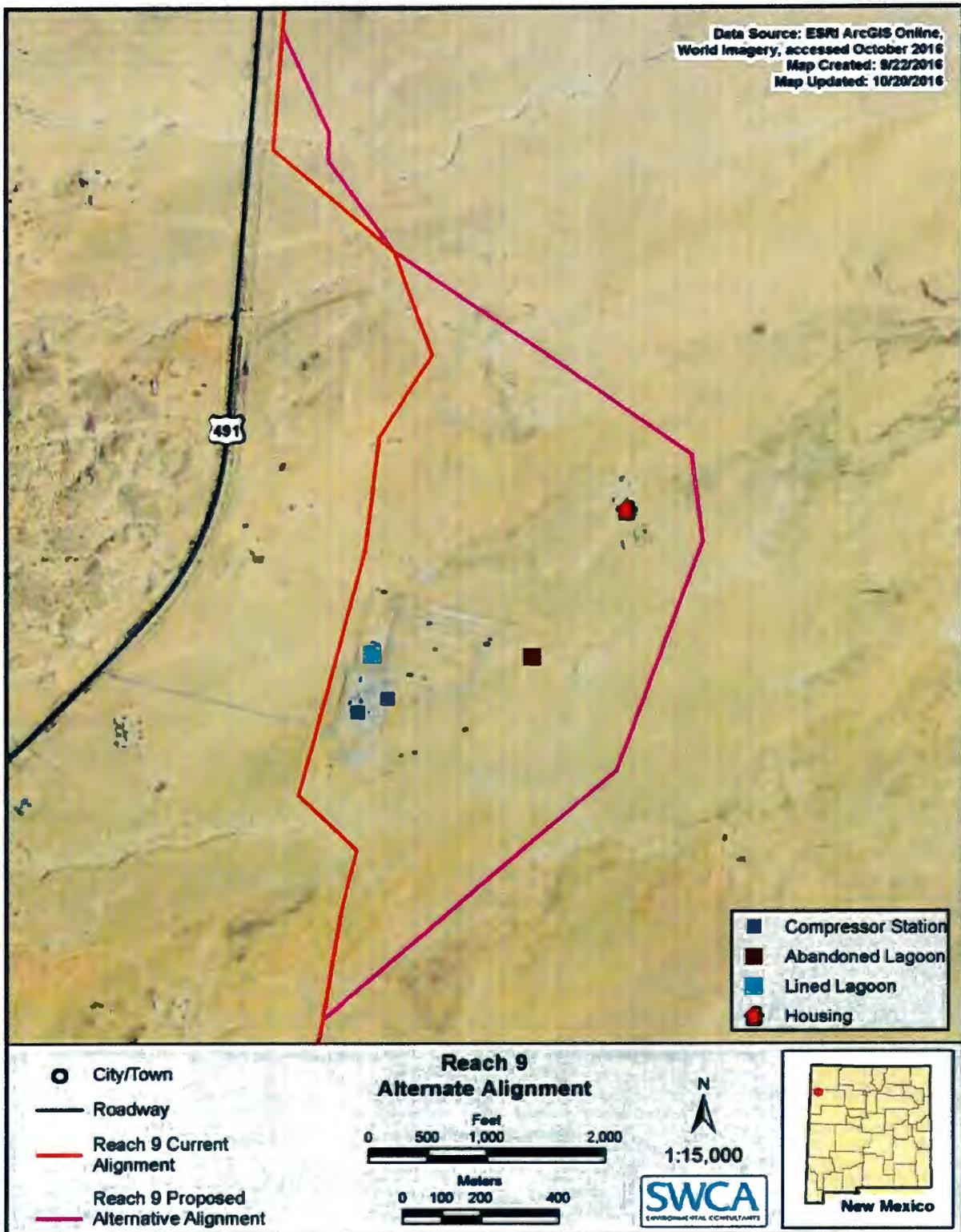


Figure 3. Aerial detail of compressor station.

3.0 PHYSICAL SETTING ANALYSIS

The following sections present physical characteristics of the subject property, as obtained from available natural history information sources.

3.1 Topography

The USGS Chuska Lake, Coyote Canyon, and Naschitti, New Mexico, 7.5-minute quadrangles and the Gallup and Shiprock, New Mexico, 1 × 2 series topographic maps indicate that the subject property lies at the base of the Chuska Mountains to the west, within the upper elevations of the Tohatchi Flats, an alluvial/valley fill slope between the Chuska Mountains and Defiance Plateau to the northwest, and Big Rock Hill to the southeast (Figures 4a through 4d).

The subject property appears to generally slope toward the east-northeast, while the south end slopes to the northeast. Numerous washes are depicted originating in the Chuska Mountains, flowing northeast with the slope. The greater vicinity drains centrally toward a few named washes and other parallel washes that flow north and northeast to the Chaco River. The Chaco River basin drains to the north. The subject property ranges in elevation from approximately 5,830 feet above mean sea level (amsl) in the north near Naschitti to 6,170 feet amsl at the southern terminus.

3.2 Soils

A review of soils data from the Natural Resources Conservation Service (NRCS) (2016a) indicates that nearly all of the subject property is mapped within the Kimbeto-Farb-Denazar (s5174) soil complex, which follows land position at the base of the Chuska Mountains (Appendix C). A 3.5-mile segment between Naschitti and the compressor station runs through the Weska-Travessilla-Rock outcrop-Oelop (s5177) soil complex on the lower slopes of the Chuska Mountains. The soil series crossed by the subject property are described in Table 1 below.

Table 1. Soil Types on the Subject Property

Soil Series Name	Description
Kimbeto	Deep and very deep, well-drained soils that formed in eolian material, alluvium, slope alluvium, and residuum derived dominantly from sandstone. Permeability is moderate. Kimbeto soils are on summits of plateaus and structural benches, dipslopes of cuestas, and treads of high stream terraces.
Farb	Shallow and very shallow, excessively or somewhat excessively drained soils that formed in residuum, eolian material, colluvium, and slope alluvium derived from sandstone and shale. Farb soils are on hills, mesas, cuestas, escarpments, canyons, and structural benches.
Denazar	Deep and very deep, somewhat excessively drained soils that formed in eolian material, alluvium, and residuum derived from sandstone. Permeability is rapid or moderately rapid. Denazar soils are on eolian-mantled summits of plateaus and structural benches, and on treads of high stream terraces.
Weska	Shallow and very shallow, well-drained soils that formed in residuum from shale. They are on upland hills, breaks, and mesas.
Travessilla	Very shallow and shallow, well-drained soils that formed in calcareous eolian sediments and material weathered from sandstone. These soils are on hills, cuestas, scarps, and mesas.
Oelop	Very deep, well-drained soils that formed in alluvium and eolian material derived from sandstone and shale. Oelop soils are on stream terraces, mesas, plateaus, and alluvial fans.

Source: NRCS (2016b).

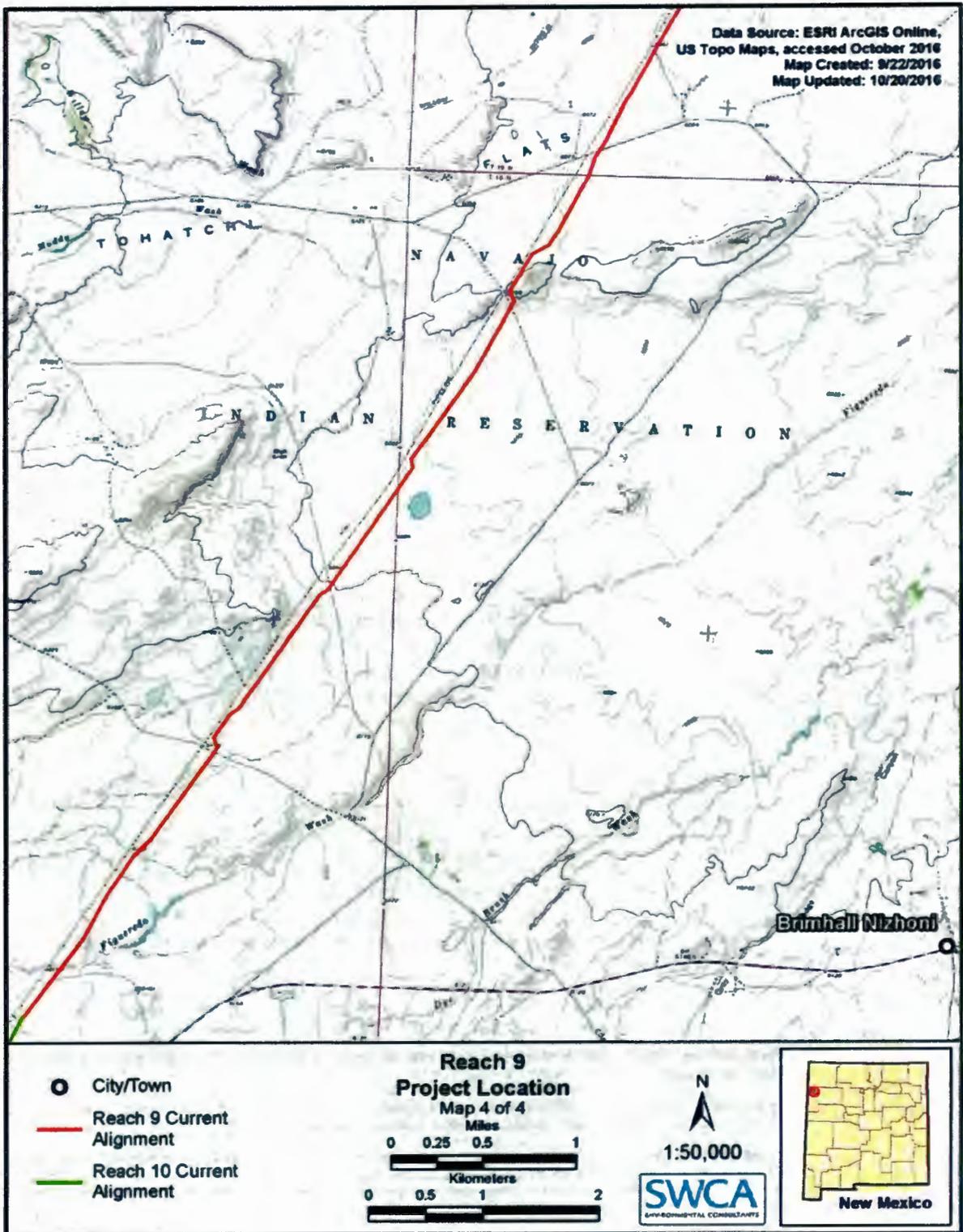


Figure 4a. USGS quadrangle.

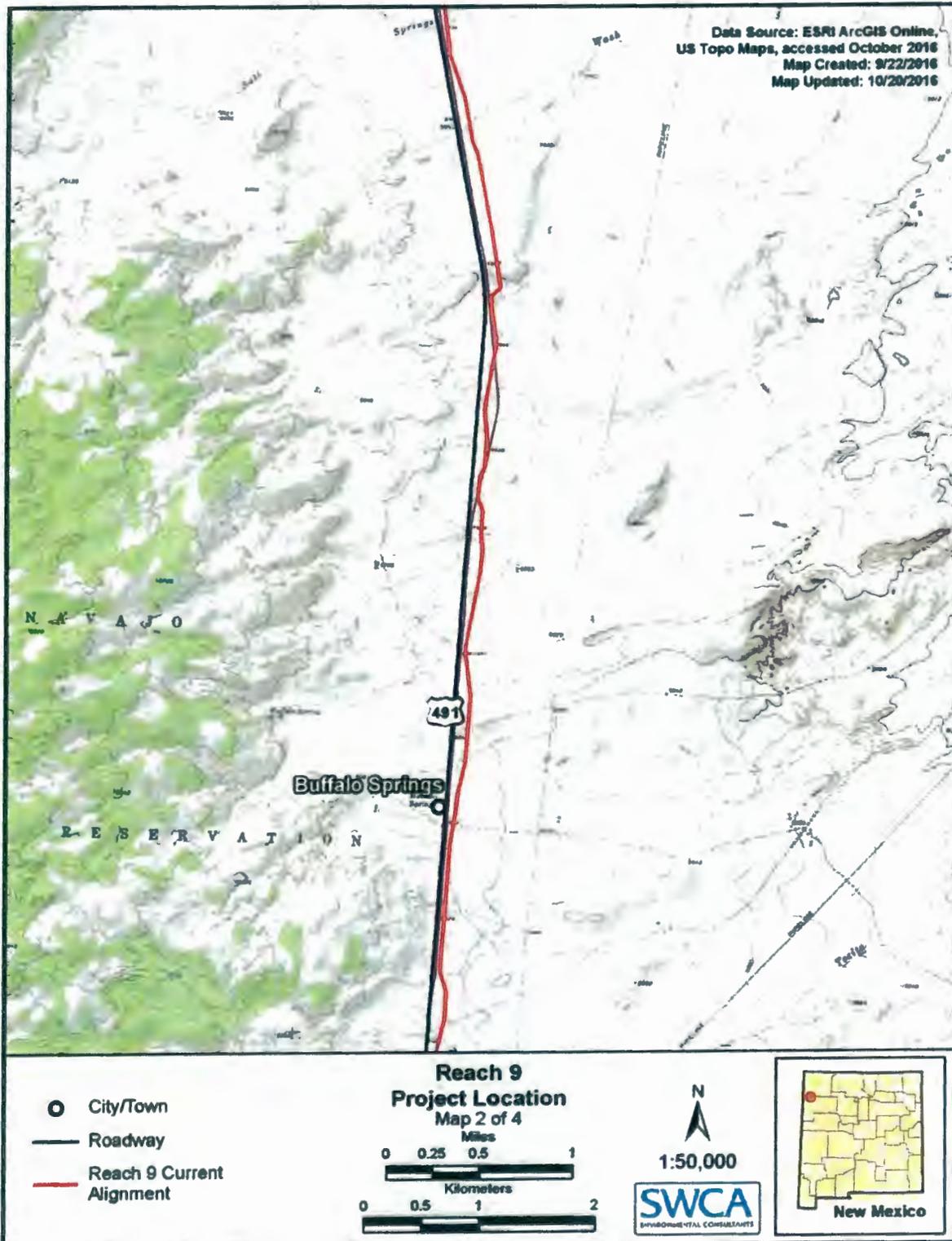


Figure 4b. USGS quadrangle.

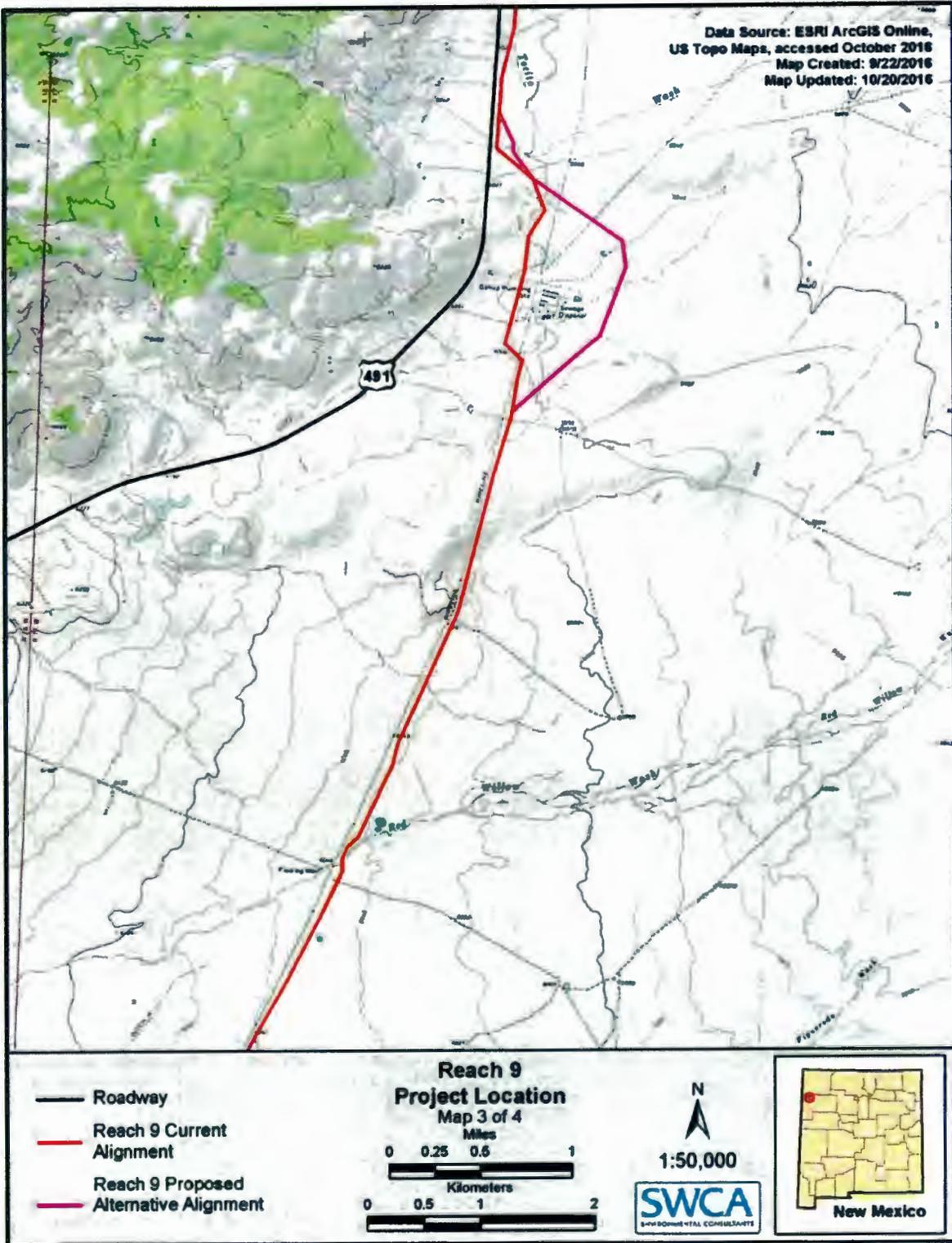


Figure 4c. USGS quadrangle.

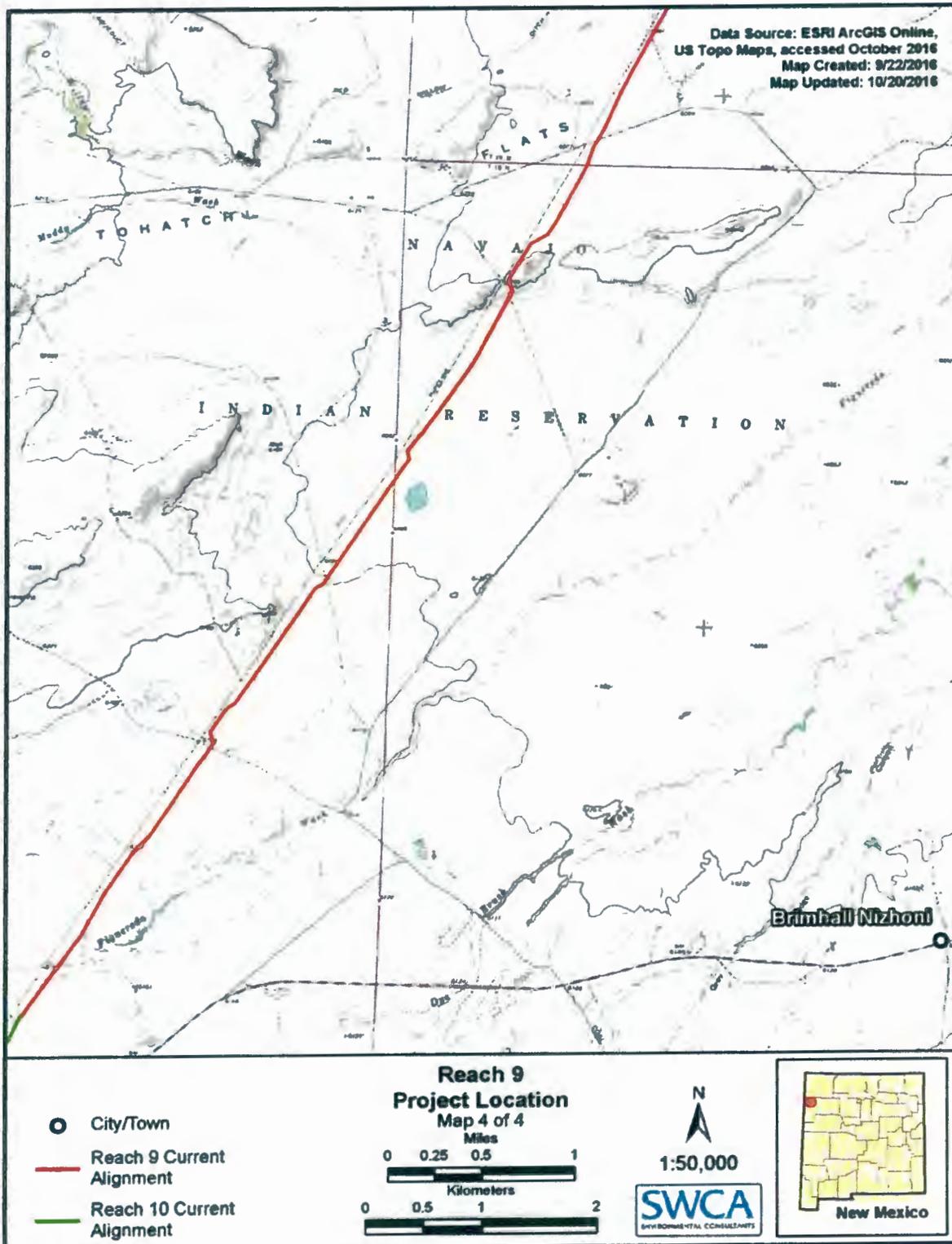


Figure 4d. USGS quadrangle.

3.3 Geology and Hydrogeology

Numerous washes in the vicinity flow to the northeast and terminate in the alluvium/valley fill. A few make their way directly or indirectly to the Chaco River. The greater vicinity drains centrally toward a few named washes and other parallel washes that flow northeast. On a larger scale, the Tohatchi Flats are within the upper reaches of the Chaco River basin, which drains to the north. It is assumed that groundwater follows this general path of moving centrally and north. The Chaco River leads north to the San Juan River near Shiprock, which flows west and joins the Colorado River at Lake Powell.

The San Juan River Basin is a geologic structural basin in the Four Corners region that covers around 4,600 square miles, encompassing much of northwestern New Mexico, southwest Colorado, and parts of Arizona and Utah. The region is arid, with rugged topography of plains and valleys interspersed by buttes, canyons, and mesas. Its most striking features include Chaco Canyon and Chacra Mesa (New Mexico Water Quality Control Commission 2004). The San Juan structural basin is a large downwarp of sedimentary rocks of mostly Mesozoic age. As a geologic region, the San Juan Basin is noted for its large deposits of coal, uranium, and natural gas (U.S. Forest Service 1994).

The subject property is also located in the Colorado Plateau physiographic region, which extends into the northwestern section of the state of New Mexico and forms the major portion of the San Juan River Basin. The area of the subject property is generally characterized by horizontal sedimentary rocks carved into a gentle relief of broad mesas and valleys, buttes, plateaus, and canyons. The area is termed the Navajo and Canyon Lands section of the Colorado Plateau province. Geomorphic processes active in the Navajo Canyonlands are deep canyon formations resulting from plateau dissection. Volcanic mountains exist, but block-fault structural mountain ranges do not. The lithology and stratigraphy of the Navajo Canyonlands includes Cretaceous, Jurassic, and Triassic sedimentary rocks, with some Quaternary and upper Tertiary sedimentary deposits and valley fills (U.S. Forest Service 1994).

USGS online spatial mineral resources data indicate that the surface geology of subject property is mapped as the Menefee Formation (Phanerozoic | Mesozoic | Cretaceous age). This formation is coal-bearing mudstone, shale, and sandstone. The primary rock type is fine-grained mixed clastic, and other rock types are coal and limestone (USGS 2016a).

Point of Diversion data from the New Mexico Office of the State Engineer (2014) did not identify any water wells within 1 mile of the subject property, except at the Gallup Compressor Station. Four wells were mapped at the compressor station: three industrial and domestic wells owned by the Navajo Tribe, and one industrial and domestic well owned by El Paso Natural Gas Company. Depth to water for these wells ranged from 285 to 695 feet below ground surface (bgs). Depth to water data for other areas near the subject property were not readily available. Topographic mapping depicts two wells in the vicinity: one about 200 feet east of the subject property, approximately 1.5 miles south of Naschitti; and 600 feet west of the subject property, east of Tohatchee, where the subject property crosses Red Willow Wash and a flowing spring currently exists. The latter location is mapped as a flowing well in topographic mapping and as a gas well in mapping from the New Mexico Oil Conservation Division (2016) and is further discussed in Section 5.2 below.

4.0 HISTORICAL PROPERTY USES AND RECORDS REVIEW

The history of the subject property and adjacent properties was reviewed in accordance with the applicable ASTM standards, except as noted in Section 1.3. Historical uses of the subject property were determined based on a review of readily available, reasonably ascertainable historical data, including historical topographic maps and aerial photographs. Based on our professional experience with similar

historically undeveloped rural properties, Sanborn fire insurance maps were assumed to not be available for the subject property. A city directory search was not conducted for the subject property because it is thought to never have been developed and does not have a street address.

4.1 Historical Map Review

SWCA reviewed USGS topographic maps of the area dated between 1886 and 1981. SWCA obtained the maps from the USGS National Geologic Map Database (USGS 2016b). A summary of SWCA's evaluation of the reviewed topographic maps is provided in Table 2.

Table 2. Summary of Historical Topographic Map Interpretation

Date of Topographic Map	Observations
1886, 1892, 1898, 1916, 1937 Wingate; and 1889, 1896, 1905, 1911 Chaco, New Mexico 1:250,000	During this period, the subject property and vicinity is depicted as vacant, undeveloped ranching land with a few unimproved interconnected trails. No roads or structures are depicted in the vicinity.
1954 and 1963 Shiprock and 1958, 1962, and 1967 Gallup, New Mexico 1:250,000	The subject property remained mostly undeveloped in these years, but by 1954/1958, the compressor station was present. The pipeline was also present from north of the compressor station, then alongside Reach 9, and beyond to the south. U.S. 491 was present (then named U.S. 666), and Naschitti is a mapped location. In addition, 6.25 miles south of Naschitti, huts and a ranch are mapped along U.S. 491. The Buffalo Springs Trading Post was mapped 0.25 mile west of Reach 9, just southwest of where a State Department of Transportation facility currently exists. More huts are mapped just south of the compressor station, and other huts and ranches are mapped elsewhere in the vicinity of the Reach 9 corridor.
1969 and 1978 Naschitti, 1974 Coyote Canyon, and 1974 Chuska Lake, New Mexico 1:24,000	The 1969 Naschitti map depicts the cemetery north of Naschitti, sewage disposal ponds north of Naschitti 1,000 feet west of the subject property, and two schools in Naschitti west of U.S. 491. Structures and a well south of the structures are depicted 1.25 miles south of Naschitti east of U.S. 491, where Reach 9 skirts the residences that exist there currently. The 1974 Coyote Canyon map depicts three structures at Buffalo Springs west of the highway. The compressor station includes many structures in this map, including 18 structures (now vacant) just east of where a lagoon currently exists, two water towers (now vacant) 600 feet southwest of the current lagoon, and six structures between the lagoon and water towers. A trio of sewage disposal ponds is present in the northeast of this area (0.25 mile east of the lagoon), and another is mapped 0.2 mile east-southeast of the lagoon. An unnamed wash is ponded in two places southeast of the station. Four structures are depicted 0.5 mile northwest of the lagoon, where some houses and a corral currently exist. The 1974 Chuska Lake map depicts the pipeline ending 1.7 miles south of the compressor station, as well as a small structure 0.25 mile farther south and east of the Reach 9 corridor, where a structure still exists. A flowing well is mapped just west of where the corridor crosses Red Willow Wash, and a cattle tank northeast of the well. The pipeline starts again where it crosses Navajo Service Route 37.
1981 Gallup and 1981 Toadlena, New Mexico 1:100,000	In these maps, the Naschitti wastewater ponds are mapped northeast of town in their current location 0.25 mile east of Reach 9. No other significant changes are evident on or near the subject property in this map.

4.2 Historical Aerial Photograph Review

SWCA also reviewed historical aerial photographs of the subject property spanning from 1997 to 2015 (Google Earth 2016), subject to the discussion in Section 1.3 above.

In the 1997 photograph, the majority of the subject property is vacant, undeveloped land, surrounded by vacant, undeveloped land, except for near Naschitti and the Gallup Compressor Station. U.S. 491, a few residences, fences, and dirt roads are in the vicinity. South of the compressor station, a parallel pipeline

corridor is adjacent to the west. In Naschitti, the school was present in its current location, as well as the rodeo grounds, the sewage treatment lagoons, and several residences. In addition, 1.25 miles south of Naschitti, most of the homes and corrals were present in their present locations, and the corridor of Reach 9 passes through some agricultural fields. The New Mexico Department of Transportation (NMDOT) facility was in its current location west of U.S. 491, and no trace of the Buffalo Springs Trading Post is evident.

The compressor station appeared much as it does today. Almost all of today's infrastructure there was already present in 1997, including the lagoon in the west. The former lagoons in the northeast appear to have been out of use for many years. Although four water wells are mapped at the compressor station, none are evident. The remainder of the subject property and surrounding area appear vacant and undeveloped at that time. During the period from 1997 to 2014 (six aerial photographs) no notable changes were evident on or adjacent to the subject property.

4.3 Adjacent Properties

Most adjacent properties have historically been undeveloped, except for the area around Naschitti, U.S. 491 adjacent to the west (from Naschitti to the compressor station), a gas pipeline adjacent to the west (south of the compressor station) that was installed sometime prior to 1958, and a few residences and dirt roads. Photographs of the subject property and surrounding areas are provided in Appendix D.

4.4 Previous Phase I ESA Reports

The client provided SWCA with a February 4, 2016, environmental database report prepared by GeoSearch. Data from the GeoSearch report have been integrated into Section 5.1 below. SWCA was not provided with and is not aware of previous Phase I ESA reports or other relevant environmental reports for review.

4.5 Interviews

SWCA interviewed Ryan Gladden, of the U.S. Bureau of Reclamation, during the week of October 3, 2016. He noted the only potential sites of environmental concern on this subject property are the Kinder Morgan Natural Gas Compressor Station and the lagoons at the north end of Reach 9 if they were not abandoned properly. He was not aware of any spills or leaks within the subject property, or any contamination from the lagoons. He thought that the compressor station on Reach 9 is the only nearby facility that would have potentially handled any hazardous substances. He was told by a resident whose family has lived near the compressor station for many years, that they used to see the operators dump something around that area. What it was and whether it was hazardous or not, the resident did not know. This last occurred in the late 1980s or early 1990s. He knew there are trash dumping sites along the corridor, but he did not look for or notice any hazardous materials.

SWCA interviewed Ms. MRutheyi Thompson, of the U.S. Bureau of Reclamation, on October 5, 2016. She stated that she is concerned about several sites along the proposed Reach 9 alignment, including the following:

- Sewage lagoons in Naschitti. She does not know whether they were properly abandoned, and said they had water in them the last time she was on-site.

- Leaking aboveground storage tanks (ASTs) and leaking underground storage tanks (LUSTs) at the old Naschitti Trading Post, doing business as Red Mesa Express. No ASTs or LUSTs were noted at this facility in environmental database searches.
- Navajo Tribal Utility Authority has a subsurface pipeline near Indian Service Route 691 just south of the proposed alignment.
- A dry pond depression is near Indian Service Route 9657. It is suspected to be a former livestock dip vat, but only based on anecdotal evidence from Mr. Appcity or Appcity, who has been a sheep farmer in the area since the 1950s. No documentation found elsewhere, but he suggested it was used as a dip vat. No unnatural depressions were observed in this location during the field visit or in aerial photography.
- At the school in Naschitti, there are several natural gas tanks but no leach fields. There is also an aerator on the property, but no one could verify its use.
- Numerous single and/or twin overshoots within the washes crossed by the alignment. Most are unlabeled. Are they abandoned pipelines or stormwater outlets?
- Abandoned tires in the vicinity.
- Dumpsites in dry washes. Some contain the occasional appliances but most of them are just full of old building material and household debris.
- The New Mexico Department of Transportation (NMDOT) yard at Buffalo Springs. They are a liquid generating station and have had at least one reportable petroleum spill that the Navajo Nation Environmental Protection Agency (EPA) is suspected to have taken care of.
- There have been several uncontrolled air emissions at the compressor station. Known emissions of carbon monoxide, nitrogen dioxide, sulfur dioxide, particulate matter 10, and volatile organic compounds. Air emissions do not meet the definition of a REC.
- According to her, there was U.S. Environmental Protection Agency (EPA) enforcement against the compressor station in 2002 and 2005. In 2002 it was based on annual compliance certification missed in 2001 and then the same in 2004. Ms. Thompson said according to what she was looking at, they had still not achieved compliance. She said their record only goes back until 1989–1990, but they were in operation long before that. The facility is listed as a Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) and is not conditionally exempt. The RCRA system tracks data collected on generators, transporters, treaters, storers, and disposers of hazardous waste. The system includes basic site identification, permit or closure status, and corrective action tracking. This facility was not listed in the environmental databases searched by Environmental Data Resources, Inc. (EDR), but further research found it was noted in the RCRAInfo database (EPA 2016a). No information on potential violations was found in that listing.
- South of the compressor station there is an abandoned house where construction activities are suspected to have involved asbestos-containing materials (ACM). According to Ms. Thompson, it is an item of concern but could be outside the search radius. Off-site asbestos does not meet the definition of a REC.
- At Red Willow Wash, there is a former livestock pond and an old livestock pump house.

- Farther south there is an electrical box that Ms. Thompson suspected belongs to Kinder-Morgan, but it is not labeled. She said it looks fairly new and is less than 100 feet off of the proposed alignment (near Navajo Service Route 37; south of Red Willow Wash and North of Figueredo Wash).
- Unknown concrete features north of Deer Springs Wash, near Indian Service Route 9. Unsure what the feature is, she said it looks almost dome-like.
- Navajo Nation surface sites contain other potential dip vats near the subject property. There is a known historical sheep dip vat but it could be just outside the search radius for the alignment. Ms. Thompson did not say where. No unnatural depressions were observed during the field visit or from aerial photography.

SWCA spoke with Larry Macias, an Operations Manager for KMI, on November 9, 2016. He was familiar with the history of the compressor station and local pipelines and infrastructure. He said there was once a camp on the north side of the compressor station that was removed decades ago. The original compressor station was installed in the early 1950s due east of the current one, and has since been removed. The new compressor station was completed in 1969 or 1970. There is no known contamination from the compressor station and there have not been any significant leaks or spills from the compressor station. All large tanks at the site have secondary containment. He said the old sewage pond was abandoned and covered over in 1992 or so, and there was no known contamination from that pond. The only pond existing now is the lined pond that holds fresh water for cooling equipment.

He stated that he was not aware of any leaks, spills, or known contamination related to any of KMI's pipelines in the area. He noted that if pipelines are exposed where they cross washes, it should not be a concern because they are solid pipelines and the soil is sandy; there are no moving rocks or boulders to potentially damage the pipelines.

SWCA also spoke with Patrick Antonio, of the Navajo Nation Water Quality & NPDES Program on November 18, 2016. He discussed several of the reaches with SWCA and was not aware of any significant environmental concerns related to contamination along the Reach 11 corridor.

SWCA prepared a questionnaire regarding the subject property, adapted from the interview worksheet in *Environmental Compliance Memorandum No. ECM 10-2, Pre-Acquisition Environmental Assessment Guidance for Federal Land Transactions* (U.S. Department of the Interior 2010). The questionnaire was completed by Ryan Gladden, of the U.S. Bureau of Reclamation, on September 26, 2016. He indicated that Kinder Morgan's pipelines are high-pressure natural gas lines, and he was uncertain if they deal with petroleum products within the reaches of the NGWSP. He thought that some of the pipelines may be 40 or 50 years old. He did not know of any spills, leaks, or cleanups of hazardous substances, petroleum products, or other potential environmental problems along the reaches or on adjacent or nearby properties. He had not seen any evidence of livestock dip vats, and did not know whether any ever existed within any reaches. He did not know of any fill material that had been brought onto the subject property that originated from a contaminated site or that was of an unknown origin. He was not aware of any environmental liens or environmental activity and land use limitations against the subject property.

A Phase I ESA User Questionnaire for the subject property was completed by Gary Vance, of the U.S. Bureau of Reclamation, on October 3, 2016. The questionnaire answers applied to Reaches 9, 10, 11, and 12.2 of the NGWSP. He stated that a search of recorded land-title records had not been completed for these reaches. He noted that he was not aware of the past uses of the reaches or any spills, releases, or environmental cleanups that had taken place on these reaches. He did note that a helium pipeline is

exposed in places between Gallup and Shiprock, New Mexico, and that the pipeline is wrapped or coated in ACM. Documentation of the above correspondence is provided in Appendix E.

5.0 ENVIRONMENTAL REGULATORY REVIEW

SWCA conducted an environmental regulatory review to establish the environmental history of the subject property and surrounding area to ascertain whether hazardous waste or hazardous material management, handling, treatment, or disposal activities have occurred on or near the subject property.

5.1 Federal and State Environmental Records

An environmental database report generated by EDR, on September 12, 2016, was used to access environmental records for a 1-mile buffer around the subject property (Appendix F). The databases searched by EDR include those specified by ASTM Standard E 1527-13, as well as several additional federal and state databases and databases proprietary to EDR. ASTM's standard search distances were followed, as detailed in Table 3. EDR updates its records in accordance with ASTM Standard E 1527-13 guidelines. Additional listed facilities that EDR has not identified may exist within the 1-mile radius. EDR's environmental database report did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.

Table 3. Approximate Minimum Search Distances

Record Sources	Approximate Minimum Search Distance (miles)
Federal Databases	
National Priorities List (NPL)	1.0
Delisted NPL	0.5
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) / CERCLIS No Further Remedial Action Planned (NFRAP) sites	0.5
Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) facilities	1.0
RCRA non-CORRACTS Treatment Storage and Disposal facilities	0.5
RCRA generators list	Property and adjoining
Institutional control/engineering control registries	Property only
Emergency Response Notification System (ERNS)	Property only
State and Tribal Databases	
NPL	1.0
CERCLIS	0.5
Landfill and/or solid waste disposal site lists	0.5
Leaking storage tank lists	0.5
Registered storage tank lists	Property and adjoining
Institutional control / engineering control registries	Property only
Voluntary cleanup sites	0.5
State and tribal Brownfield sites	0.5

Source: ASTM (2013).

SWCA supplemented the EDR database search with reviews of:

- An environmental database report completed by GeoSearch (2016) on February 4, 2016, that was provided by the client;
- the New Mexico Environment Department's (NMED's) Ground Water Quality Bureau (GWQB) Mapping Application, EGIS Mapping Application, Petroleum Storage Tank Bureau GoNM Mapping Application, and Source Water Protection Atlas (SWPA) Mapping Application (NMED 2016a, 2016b, 2016c, 2016d);
- the New Mexico Bureau of Geology and Mineral Resources (2016) interactive GIS mapping application;
- the EPA's Envirofacts database (EPA 2016b), to search additional federal databases; and
- the EPA's Indian Country Leaking Underground Storage Tanks Mapping Application (EPA 2016b).

The NMED's GWQB and EGIS applications include data for abatement sites, brownfields, hazardous waste facilities, underground storage tank (UST) and LUST facilities, landfills and solid-waste facilities, and voluntary remediation sites. The GoNM application includes AST, UST, and LUST facilities; and data from the EPA's Toxics Release Inventory. The SWPA application includes much of the above, plus petroleum pools, uranium and asbestos deposits and mines, and other data layers. The EPA Envirofacts database includes data from the RCRAInfo database, which collects information for all generators, transporters, treaters, storers, and disposers of hazardous waste. SWCA's search of these supplemental databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property. A copy of the EDR report and supplemental database records is included in Appendix F.

In addition to the sites/facilities listed in the EDR database report, EDR provides a list of sites or facilities that are listed in one or more regulatory agency databases but could not be mapped because of incomplete address or location information. The EDR report identified 92 such sites, and SWCA reviewed each listing. SWCA determined that 89 of the sites are not potentially relevant to the subject property because of their location, status, and/or the type of database they were listed in. The other listings are described below:

- **Red Mesa #507, aka Naschitti Trading Post**, located 1,000 feet west of the subject property in Naschitti, was listed in the Indian UST database. This facility had two gasoline USTs installed in 1961 that are permanently out of use. Two more USTs were installed in 1994 that are listed as still in use. No leaks, spills, or potential contamination was noted in conjunction with this listing.
- **Naschitti Elementary School**, located 700 feet west of the subject property in Naschitti, had two listings. It was listed in the Indian UST and Indian LUST databases. The UST database listing indicated that a gasoline UST was installed in 1971 and is permanently out of use. The tank had a suspected release, but the LUST case was closed with no further action in 2008. The GeoSearch database listed a 1,500-gallon gasoline UST, but there was no information on when it was installed or removed.
- **The NMDOT facility**, located 400 feet west of Reach 9, west of U.S. 491 in Buffalo Springs, was listed in the UST, LUST, and leaking AST databases. This facility reported a UST leak in 1991 and the LUST case was closed with no further action required. The leaking AST received no further action status in 1997.

- **Gallup Compressor Station** was listed as a RCRA SQG. A listing in this database is not an indicator of potential contamination. No violations or enforcements reported for this facility.

SWCA also considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.

5.2 Oil and Gas Wells

SWCA reviewed mapping from the New Mexico State Land Office (2016) and the New Mexico Oil Conservation Division (2016) to identify oil and gas wells on and near the subject property. These sources did not identify any oil and gas wells on or in the vicinity of the subject property except for one:

- **Pre-Ongard Well No. 001 (API No. 30-031-05301)** is mapped 600 feet west of the subject property, east of Tohatchee, where the subject property crosses Red Willow Wash, and a flowing water wellhouse currently exists. No complaints, incidents, or spills were noted in the listing, and the listed status of the well is “plugged, site released.” No evidence of potential contamination was noted at this location during the site reconnaissance.

6.0 PROPERTY RECONNAISSANCE

Noel Tamboer of Nelson Consulting, Inc., and Eilene Lyon of SWCA completed the Phase I ESA site investigation for the subject property on September 15, 2016. The subject property was observed by driving to and walking on the subject property, subject to the discussion in Section 1.3 above. They met with Mr. Ryan Gladding, of the U.S. Bureau of Reclamation, prior to observing the subject property. Details from that conversation have been integrated into the description below, and photographs taken during the property reconnaissance are included in Appendix D.

6.1 Property Inspection

Except for the areas around Naschitti and the Gallup Compressor Station, U.S. 491 adjacent to the west (from Naschitti south to the compressor station) and a gas pipeline adjacent to the west (south of the compressor station), the subject property and vicinity are primarily vacant, undeveloped desert land in all directions. Conditions during the site visit were sunny, dry, and approximately 50 degrees Fahrenheit, remaining sunny and warming to 75 degrees as the day progressed. Reach 9 was observed generally from north to south. The subject property and adjacent property are further described below. All distances are approximate.

The area around the northern terminus of Reach 9 was mostly vacant land north of Naschitti, with a cemetery to the northeast and U.S. 491 to the west. Further south, closer to Naschitti, a 7.5-acre treatment lagoon was present 0.25 mile east of the corridor. The lagoon has two chambers and was observed from outside a fence with a sign warning of contaminated water. One chamber was full, and the other was dry.

A livestock facility is present northeast of the intersection of U.S. 491 and Indian Service Route 69, in the northeast of Naschitti. Though referred to as a rodeo grounds, it appears to be a stockyard. No storage tanks or potential sources of contamination were observed at the stockyard. The Naschitti Elementary School is present across the highway and southwest of the stockyard. Six large propane tanks were present in the east of the school property, and another three propane tanks were observed in the southwest. No other storage tanks or potential sources of contamination were observed at the school. The Naschitti Trading Post is south of the school and west of the Reach 9 corridor. This facility does sell

gasoline, but no evidence of potential contamination, such as significant soil staining or unusual odors, was observed.

A group of residences and some agricultural land is present 1.25 miles south of Naschitti, east of the highway. Several blue polyethylene 55-gallon drums were observed near the structures, but no leakage was evident. Burn barrels were in use, and several junked vehicles were in the area. No potential sources of contamination were observed in this area.

The subject property crosses a wash 1 mile north of Indian Service Route 692. Trash and debris was present in and near the wash, including household trash, a large amount of broken glass, and debris such as old tires, wood, and carpets. In addition, 275 feet to the east, two metal pipes crossing the wash were exposed by erosion. No unusual odors, stained soil, or evidence of leaks was observed.

An NMDOT maintenance facility (District 6 – Buffalo Springs Maintenance Patrol 46-54) was observed west of U.S. 491, which included a few office and storage buildings; piles of gravel, sand, and soil; a propane AST in the south of the facility; and two large ASTs near the middle of the facility. One of the ASTs was within secondary containment, and the other could not be observed.

The El Paso Natural Gas Gallup Compressor Station is located just south of Indian Service Route 9653. It is mostly vacant land, and it is apparent that buildings, lagoons, and other infrastructure formerly existed, as verified in historical mapping. The compressor station includes a main area with large structures, at least three large ASTs, metal piping, and access to underground pipes and valves. The three large ASTs were labeled turbine oil, amitrol (ethylene glycol-based coolant), and used oil, and they were within secondary containment. Other natural gas infrastructure in the vicinity includes four manifolds and a used oil AST adjacent to the south of the main area, manifolds and a structure 0.3 mile to the north-northeast, and a lined lagoon 150 feet north of the main area. The lagoon was dry and did not appear to have been in use for some time. This lagoon is located approximately 0.5 mile upgradient of the subject property. The abandoned lagoons in the east of this area are barely distinguishable from surrounding land, and covered in vegetation with a density that reflects surrounding land. They are thought to be former sewage treatment lagoons. The abandoned lagoons are located nearly 0.25 mile upgradient of the subject property. No unusual odors, stained soils, or other evidence of potential contamination was observed at or in the vicinity of the compressor station. A few residences and a corral are present 0.5 mile northeast of the main area, where no potential sources of contamination were observed.

Red Willow Wash was observed to be flowing during the site visit, fed by a wellhouse 650 feet upstream of Reach 9. A pipe from the side of the wellhouse was pouring water into the wash. Although a gas well is mapped near the wellhouse, none was found. However, two concrete pads were present near the water well. No unusual odors were noted, and no oily sheen was evident on the open water.

Except for some nearby cattle tanks, the remainder of the subject property and adjacent areas was vacant, undeveloped desert land. No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

7.0 PHASE I ESA FINDINGS

The following list presents selected findings of this Phase I ESA:

- SWCA's review of historical aerial photographs and topographic maps did not identify any past uses of the subject property other than as vacant, undeveloped land that passes through the town of Naschitti and past a natural gas compressor station. Most adjacent properties have historically

been undeveloped, except for the area around Naschitti, U.S. 491 adjacent to the west (from Naschitti to the compressor station), a gas pipeline adjacent to the west (south of the compressor station) that was installed sometime prior to 1958, and a few residences and dirt roads. Because no known historical sources of contamination were identified, the historical uses of the subject property and adjacent properties are not considered to be RECs for the subject property.

- Sewage disposal ponds were mapped north of Naschitti in historical maps, 1,000 feet west of the subject property. Because they are not known to have produced contamination, because sewage ponds are not generally known to introduce hazardous substances or petroleum products to the environment, and because of their distance from the subject property, the abandoned ponds are not considered to be a REC for the subject property.
- SWCA's interviews with personnel from the U.S. Bureau of Reclamation found that they were not aware of any known contamination on the subject property. One person noted a nearby helium pipeline is exposed in places, and that the pipeline is wrapped or coated in ACM. However, this is not considered to be a REC because undisturbed ACM meets the definition of a de minimis condition, which does not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.
- One interviewee noted the following:
 - She stated there are leaking ASTs and LUSTs at the old Naschitti Trading Post. However, because no ASTs or LUSTs were noted at this facility in any environmental database searches, and because of its distance from the subject property, this facility is not considered to be a REC for the subject property.
 - The Navajo Tribal Utility Authority has a subsurface pipeline near Indian Service Route 691 just south of the proposed alignment. Because the presence of a pipeline does not indicate the likely presence of contamination, this pipeline is not considered to be a REC for the subject property.
 - She stated that a dry pond depression near Indian Service Route 9657 is suspected to be a former livestock dip vat, based on anecdotal evidence from a sheep farmer in the area. Because no documentation of the vat was found elsewhere, because no unnatural depressions were observed in this location during the field visit or in aerial photography, and because the location of the depression was not identified, this potential dip vat is not considered to be a REC for the subject property.
 - She noted that the school in Naschitti has no leach fields, and there is an aerator on the property. The school could be using a Class V injection well for sewage disposal, or it could be connected to the waste lagoons northeast of Naschitti. The aerator could be remaining from the closed LUST case at the school, or could be related to the waste disposal. Neither of these is considered to be a REC for the subject property.
 - Several large piles of discarded tires are located in the vicinity of Reach 9. Because observed tire piles were located downgradient of the reach, and because tires are considered to be inert debris and not sources of contamination, tire piles are not considered to be a REC for the subject property.
 - The NMDOT yard at Buffalo Springs had at least one reportable petroleum spill that the Navajo Nation EPA is suspected to have addressed. Because of its distance from the subject property, and because the spill was addressed, a small quantity reportable spill at the facility is not be considered to be a REC for the subject property.

- There have been several uncontrolled air emissions at the compressor station. Air emissions do not meet the definition of a REC.
 - According to Ms. Thompson, there has been EPA enforcement against the compressor station based on missed annual compliance certifications. The facility is listed as a RCRA SQG of hazardous waste. The listing of a facility as a RCRA SQG, and violations related to missed compliance certifications do not indicate the presence of potential contamination.
 - An abandoned house is located nearby the reach, where construction activities are suspected to have involved ACM. Off-site asbestos would be unlikely to affect the subject property; therefore, it is not considered to be a REC.
 - Ms. Thompson said that Navajo Nation surface sites contain other potential dip vats near the subject property. Because no documentation of the vats was found elsewhere, because no unnatural depressions were observed during the field visit or in aerial photography, and because the locations of the possible dip vats were not identified, unverified dip vats are not considered to indicate the likely presence of any hazardous substances at the subject property. Therefore, the potential dip vats are not considered to be a REC for the subject property.
- SWCA's interview with an Operations Manager for KMI found that there is no known contamination from the compressor station and there have not been any significant leaks or spills from the compressor station. All large tanks at the site have secondary containment. The old sewage pond at the site was abandoned and covered over around 1992, and there was no known contamination from that pond. The only pond existing now is the lined pond that holds fresh water for cooling equipment.
 - SWCA's review of the EDR environmental database report generated on September 12, 2016, and supplementary searches of a GeoSearch environmental database report and NMED, New Mexico Bureau of Geology and Mineral Resources, and EPA databases did not identify the subject property in any databases. However, the following listings were identified in the vicinity of the subject property:
 - **Red Mesa #507, also known as Naschitti Trading Post**, located 1,000 feet west of the subject property in Naschitti, was listed in the Indian UST database. This facility had two gasoline USTs installed in 1961 that are permanently out of use. Two more USTs were installed in 1994 that are listed as being still in use. Because the old tanks are permanently out of use and were replaced by modern tanks, because of its distance from the subject property, and because no leaks, spills, or potential contamination was noted in conjunction with this listing, this facility is not considered to be a REC for the subject property.
 - **The Naschitti School**, located 700 feet west of the subject property in Naschitti, had two listings. It was listed in the Indian UST and Indian LUST databases. The UST database listing indicated that a gasoline UST was installed in 1971 and is permanently out of use. The tank had a suspected release. Because the tank is permanently out of use, and because the LUST case was closed with no further action, this facility is not considered to be a REC for the subject property.
 - **The NMDOT facility**, located 400 feet west of Reach 9, west of U.S. 491 in Buffalo Springs, was listed in the UST, LUST, and leaking AST databases. This facility reported a UST leak in 1991 and an AST leak sometime later. Because of its distance from the subject property, and because both leak cases were closed with no further action required, the leaks at this facility are not considered to be a REC for the subject property.

- **Gallup Compressor Station** was listed as a RCRA SQG. Because a listing in this database is not an indicator of potential contamination, and because no violations or enforcements were reported for this facility, it is not considered to be a REC for the subject property.
- SWCA's review of mapping from the New Mexico State Land Office and the New Mexico Oil Conservation Division identified one gas well in the vicinity of the subject property:
 - **Pre-Ongard Well No. 001 (API No. 30-031-05301)** is mapped 600 feet west of the subject property, east of Tohatchee, where the subject property crosses Red Willow Wash, and a flowing water wellhouse currently exists. Because no complaints, incidents, or spills were noted in the listing, because the listed status of the well is "plugged, site released," and because no evidence of potential contamination was noted at this location during the site reconnaissance, this well is not considered to be a REC for the subject property.
- SWCA considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.
- SWCA's reconnaissance of the Reach 9 corridor on September 15, 2016, verified the above general description of the subject property, and the following observations were made:
 - Except for the areas around Naschitti and the Gallup Compressor Station, the subject property and vicinity are primarily vacant, undeveloped desert land in all directions.
 - A 7.5-acre treatment lagoon with two chambers was present 0.25 mile east of the corridor, north of Naschitti. Because it is not known to have produced contamination, because of its distance from the subject property, and because of its location downgradient of the subject property, the lagoon is not considered to be a REC for the subject property.
 - A stockyard is present adjacent to the east of Reach 9 in Naschitti. Because no storage tanks or potential sources of contamination were observed at the stockyard, and because it is not listed in any of the environmental database searched, this facility is not considered to be a REC for the subject property.
 - The Naschitti Elementary School is present across the highway, 700 feet west of Reach 9. Six large propane tanks were present in the east of the school property, and another three propane tanks were observed in the southwest. Because the tanks appeared to be in good general condition, and because no other potential sources of contamination were observed, the school is not considered to be a REC for the subject property.
 - The Naschitti Trading Post is 1,000 feet west of the Reach 9 corridor. This facility does sell gasoline, but as noted above is not a LUST site. Because of its distance from the subject property and because no evidence of potential contamination, such as significant soil staining or unusual odors, was observed, this facility is not considered to be a REC for the subject property.
 - A number of residences and some agricultural land were observed in the vicinity along the route of Reach 9. No potential sources of contamination were observed in residential areas.
 - The subject property crosses a wash 1 mile north of Indian Service Route 692, where trash and debris was present in and near the wash, including household trash, a large amount of broken glass, and debris such as old tires, wood, and carpets. In addition,

275 feet to the east, two metal pipes crossing the wash were exposed by erosion. Because it appeared to be inert de minimis debris and because no unusual odors, stained soil, or evidence of leaks was observed, this location is not considered to be a REC for the subject property.

- An NMDOT maintenance facility was observed west of U.S. 491, 400 feet west of Reach 9. It included a few office and storage buildings; piles of gravel, sand, and soil; a propane AST in the south of the facility; and two large ASTs near the middle of the facility. One of the ASTs was within secondary containment, whereas the other could not be observed. Because no evidence of potential contamination was observed and because the facility was not listed in the search environmental databases, this facility is not considered to be a REC for the subject property.
- The El Paso Natural Gas Gallup Compressor Station is located just south of Indian Service Route 9653. It is mostly vacant land, and it is apparent that buildings, lagoons, and other infrastructure formerly existed, as verified in historical mapping. The compressor station includes at least three large ASTs for labeled turbine oil, ambitrol (ethylene glycol-based coolant), and used oil, and they were within secondary containment. Another used oil AST was nearby. A lined lagoon was observed to be dry and did not appear to have been in use for some time. Abandoned lagoons in the east of this area, thought to be former sewage treatment lagoons, are barely distinguishable from surrounding land. Because the facility is not known to have produced contamination, because the current lagoon is lined, because of the distance of the lagoons from the subject property, and because no unusual odors, stained soils, or other evidence of potential contamination was observed at or in the vicinity of the compressor station, this facility is not considered to be a REC for the subject property.
- Red Willow Wash was observed to be flowing during the site visit, fed by a wellhouse 650 feet upstream of Reach 9. Two concrete pads were present near the water well. Although a gas well is mapped near the wellhouse, none was found. Because no potential sources of contamination were identified, because no unusual odors were noted, and because no oily sheen was evident on the open water, the wellhouse is not considered to be a REC for the subject property.
- Except for some nearby cattle tanks, the remainder of the subject property and adjacent areas was vacant, undeveloped desert land.
- No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

8.0 PHASE I ESA CONCLUSIONS

SWCA has completed a Phase I ESA of the subject property based on information obtained during the site investigations conducted on September 15, 2016, and the information obtained through the activities of this Phase I ESA, excluding the limitations.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of Reach 9 of the NGWSP, in San Juan and McKinley Counties, New Mexico, the *property*. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

9.0 LITERATURE CITED

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10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312. Our qualifications are presented in Appendix B of this report.



Steven M. O'Brien
Environmental Specialist / Environmental Professional

November 14, 2016

Date



Devin Keane
Environmental Specialist / Environmental Professional

November 14, 2016

Date

Fieldwork and reporting support was conducted in conformance with ethical business practices and industry standards by staff with the education, training, and experience to assess a property of the nature, history, and setting of the site. Fieldwork was conducted under the direction of the Environmental Professionals.



Noel Tamboer
Natural Resources Specialist

November 14, 2016

Date



Eilene Lyon
Natural Resources Specialist

November 14, 2016

Date

APPENDIX A
Phase I ESA Proposal

NAVAJO GALLUP WATER SUPPLY PROJECT

ENVIRONMENTAL SERVICES

REACH 9 PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

TASK ORDER No.

CONTRACT No. R13PC40003/4

SECTION C – DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

General

Reach 9 of the NGWSP is continuing environmental investigations, documentation and land acquisitions prior to construction scheduled for mid FY2017. The segment known as Reach 9 of the NGWSP is approximately 23 miles in length and traverses San Juan and McKinley Counties, NM generally along the east side of US Highway 491. Start of Reach 9 begins near the junction of US Highway 491 and ISR 69 in Naschitti, New Mexico. The Reach 9 terminus is just south of the rodeo arena, on the east side of US491. The alignment generally runs in a south-southeasterly direction, along the east side of US 491, with a few shifts in route to circumvent geologic, cultural and residential areas. Approximately 0.2 miles north of ISR 9653, Reach 9 alignment moves away from close proximity to US491 and begins to move more southeasterly until just south of the Gallup Compressor Station, at which point it follows an adjacent alignment with the EPNG/Kinder Morgan underground pipeline route, until the end of Reach 9 alignment approximately 0.3 miles south of Figuerdo Wash. Among the environmental studies and documentation required for NGWSP Reach 9 is a Phase I Environmental Site Assessment (Phase 1). The purpose of this Task Order (TO) is to request preparation of a Phase 1 satisfactory to requirements from Regional Reclamation staff.

Qualifications

The contractor shall provide a qualified Environmental Professional (EP) with qualifications meeting or exceeding the requirements found in ~~ECM 10-2~~, 40 CFR 312 and 33 CFR 137. ~~The contractor shall fill out the Qualifications Questionnaire of ECM 10-2 and submit it for review by Regional Environmental Division before any Notice to Proceed (NTP) is issued and any work performed by the contractor.~~ Any portions of the work, as allowed by the current version of ASTM E1527, not carried out by the qualified EP must be done under the supervision of the qualified, approved, signatory EP.

The work shall be conducted consistent with accepted professional standards, guidance provided by Reclamation and other governance practices such as, but not exclusively limited to:

- ~~ECM 10-2 (attached) (non-scope issues do not need to be included)~~
- ASTM E1527-13 or most current E1527 standard
- 40 CFR 312
- 33 CFR 137
- CERCLA, OPA and all other related applicable environmental laws and regulations enforceable by federal, state, tribal and/or local governments.

Tasks

Conduct a Phase 1: Per the above standards, ~~including the ECM 10-2,~~ the contractor shall conduct a Phase 1 satisfactory to Reclamation requirements.

Deliverables

The contractor shall prepare and provide a Phase 1 Report for Reach 9. The contractor shall deliver an electronic copy for internal Reclamation review; it shall be considered a draft report. Reclamation shall conduct internal review and provide comments back to the contractor. The contractor shall address all comments provided by Reclamation and provide a final draft report. Once accepted by Reclamation, the contractor shall provide Reclamation with three (3) hard paper copies with ink signatures from the qualified, approved EP of the finalized Revision report and an electronic file format copy, either transmitted by CD/DVD media or internet/email distribution.

Schedule

Reclamation shall provide the contractor within five (5) business days all information the contractor requests to conduct this work, including but not limited to: contact information for allottee and private landowners, contact information for utility and Oil & Gas companies, contact information for federal and tribal agencies, internal documents of research into environmental records, detailed proposed pipeline alignment and associated land status information (maps and/or GIS/GPS files), copies of pertinent to Reach 9 Right of Entry Permits and Chapter Resolutions, and internal memos/meeting notes of comments on the concerns/needs from the Regional Lands and Environmental Divisions. The contractor shall request within two (2) business days after issuance of Notice to Proceed (NTP) of any additional documents or information needed from Reclamation to perform the work of this TO.

The contractor shall perform the work and produce the draft within two (2) weeks from date of NTP. Reclamation shall conduct all internal reviews and provide comments back to the contractor within one (1) week from receipt of draft report from the contractor. Upon receipt of comments from Reclamation, the contractor shall provide a final draft to Reclamation within five (5) business days. Reclamation will give approval or additional comments on the final draft within two (2) business days. Upon approval by Reclamation of the final draft, the contractor shall provide the final hard copies and electronic copy to Reclamation within three (3) business days.

~~All contact between Reclamation and the contractor should be conducted through the Contracting Officer's Representative (COR). In lieu of the COR, contact shall be conducted through Ryan Gladden of the Four Corners Construction Office who can be reached at (505) 599-4564 or rgladden@usbr.gov.~~

Period of Performance

The expected period of performance is from date of award until ~~July 29, 2016~~ October 21 2016.

SCOPE OF WORK FOR A PHASE I ENVIRONMENTAL SITE ASSESSMENT

Nelson Consulting, Inc. (NCI) and SWCA Environmental Consultants (SWCA) will complete a Phase I Environmental Site Assessment (ESA) for the approximately 23-mile long Reach 9 of the NGWSP in San Juan and McKinley Counties, New Mexico. The Phase I ESA will be completed in general accordance with the standards described in American Society for Testing and Materials (ASTM) Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (2013) and with the guidance provided in 40 CFR 312, 33 CFR 137, CERCLA, OPA, and other applicable guidance ensuring the report is consistent with accepted professional standards..

The goal of the Phase I ESA is to assess the subject property, to the extent practical, for the potential presence of recognized environmental conditions (RECs), defined in ASTM Standard E 1527-13 as “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.” The following scope of work applies to a Phase I ESA, and consists of five subtasks.

1.1 RECORDS REVIEW

We will review appropriate documents including historical aerial photographs, topographic maps, and other land-use documents in order to identify past operations or activities that may have caused the release of hazardous substances into the environment. Because obtaining historical aerial photography of a long corridor may be cost-prohibitive, SWCA will only order historical aerial photography for currently or previously developed areas.

If made available by the client, we also will review copies of environmental reports previously prepared for the site, environmental compliance audits, environmental permits, environmental liens and activity and use limitations (AULs), and other available environmental documents relating to the site. If provided by the client, specialized knowledge of or experience relating to the property or nearby properties will be reviewed. As part of the review process, site location, hydrogeological characteristics, geographic setting, and physiography also will be summarized.

Additionally, available state and federal regulatory databases will be reviewed to determine whether the subject property or nearby facilities have been subject to environmental actions or review. The regulatory database review will, at a minimum, include the databases required to satisfy the ASTM standard. If the subject property or an adjoining property appears on a federal, state, or tribal database, the ASTM standard requires additional in-person regulatory file review unless the environmental professional determines that a file review is unnecessary and/or that the records cannot be obtained within a reasonable time (20 calendar days from the date of request) for a reasonable cost.

1.2 INTERVIEWS

If site contact and/or property owner contact information is made available by the client, we will attempt to interview those individuals who are knowledgeable about the history of the site (typically, a past or current owner, operator, manager, or occupant of the site). Reasonable attempts will be made to interview at least one staff member of state or local government agencies regarding information that indicates RECs in connection with the property..

1.3 SITE RECONNAISSANCE

NCI and SWCA personnel will conduct a reconnaissance of the site and vicinity to visually identify and photograph areas with potential RECs and to document current site conditions. Because of the size of the site and because much of the site is vacant land with no history of development, SWCA personnel will use aerial photography and topographic maps to identify specific areas of the project area that will require in-person observation. SWCA personnel will then conduct a reconnaissance of those areas and adjacent land to visually identify and photograph areas with potential RECs and to document current site conditions. This scope of work does not include activities such as collecting or analyzing soil, air, water, or other environmental samples and will not address issues such as radon, asbestos, lead, or radioactivity. We will visually inspect the property and the interiors of structures where hazardous chemicals and petroleum products are stored or used. Because of the remote and historically undeveloped nature of the southern half of the site, SWCA will use aerial photography and topographic mapping to identify specific areas of that part of the site that merit an in-person observations. SWCA personnel will require access to all areas of the subject property on the day of the site reconnaissance. Access to private or restricted areas and any necessary work permits will be arranged by a client representative.

1.4 USER-PROVIDED INFORMATION

User-provided information is an essential component of the Phase I ESA and includes items such as copies of any previous Phase I ESAs or other relevant environmental documents, a completed Phase I ESA User Questionnaire, the reason why the Phase I ESA is being performed, access to the subject property, and contact information for current or past owners or land users. The user of the report is defined as the party seeking to use ASTM Standard E 1527-13 to complete a Phase I ESA of the property.

The ASTM standard also requires that the user of the Phase I ESA report must search recorded land-title records and judicial records for environmental liens and AULs and must report this information to SWCA, as the environmental professional writing the Phase I ESA report. Environmental liens and AULs can commonly be found within recorded land title records (e.g., County Recorder/Registry of Deeds). The types of title reports that may disclose environmental liens and AULs include Preliminary Title Reports, Title Commitments, Condition of Title, and Title Abstracts. In jurisdictions where environmental liens or AULs are only recorded or filed in judicial records, the judicial records must be searched for environmental liens and AULs. The user may wish to engage a title company, real estate attorney, or title professional to undertake a review of reasonably ascertainable recorded land-title records and lien records for environmental liens and AULs. If the user opts not to search for liens and AULs, this would be noted as a limitation of the report.

A 50-year chain-of-title report and a search for liens and AULs will not be obtained by SWCA under this scope of work. SWCA will, however, review a chain-of-title report and lien search if supplied by the client, or we will obtain these data at an additional cost to this scope of work, if requested by the client.

1.5 REPORT GENERATION

The Phase I ESA findings will be summarized and documented in one report. Sections within the report will include 1) an introduction and description of the scope of work; 2) a description of the site; 3) a summary of the site history, including interviews and user-provided information; 4) a regulatory database review; 5) a description of the site reconnaissance; and 6) report findings and conclusions. Deviations from ASTM will be explained and justified. The potential for contaminant migration, including vapor in the subsurface, will be assessed in accordance with ASTM Standard E 1527-13; however, a formal ASTM Standard E 2600-10 Vapor Encroachment Screening to identify vapor encroachment conditions will not be conducted as part of this scope of work. Report limitations and literature cited will also be included. Figures, at a minimum, will include 1) a regional site location map; and 2) an aerial photograph. Where applicable, report appendices could include 1) reproductions of select

aerial photographs; 2) a copy of the regulatory database review report; 3) select site photographs; 4) applicable site history and prior-use documentation; and 5) copies of relevant environmental reports.

According to ASTM Standard E 1527-13, the content of a Phase I ESA is valid for only 180 days. If the date of the intended use for Phase I ESA is not within 180 days of the completion of the report, an update will be necessary.

COST

Cost to complete the Phase I ESA: [REDACTED]

SCHEDULE

We will perform the work and produce a draft report within 2 weeks from the date of notice to proceed. Upon receipt of comments we will provide a final draft within five 5 business days. Upon approval by Reclamation of the final draft, we will provide the final hard copies and electronic copy to Reclamation within three 3 business days

ASSUMPTIONS

1. The draft report will be delivered in electronic format and final report will be delivered as 3 hard copies and in electronic format. Substantial report revisions such as changes to the scope of work or the project area will incur additional cost
2. The client will provide detailed site mapping prior to commencement of work.
3. Access to private or restricted areas and any necessary work permits will be arranged by a client representative. All areas of the site are reasonably accessible and access will be provided to the interiors of any areas where hazardous chemicals and petroleum products are stored or used. Delays due to weather or the client will incur additional cost.
4. Any task not expressly described herein is not included in the proposed cost.
5. The Phase I ESA will be prepared in general accordance with ASTM standards and does not include any sampling such as soil, air, water, vapor, lead, or asbestos.
6. The date of the intended use of the Phase I ESAs is within 180 days of the completion of the report.

ATTACHMENT – Signatory Environmental Professional Qualifications

APPENDIX B
SWCA Credentials

Education / Training

- B.A., Biology / Chemistry, Gettysburg College; 1994

Expertise

- ESAs, EDDAs, EBSs
- Wetland delineation and hydric soils
- Stream channel assessment and restoration
- State/National Environmental Policy Act (S/NEPA) documentation
- Protected species
- 404/401 permitting
- Construction oversight
- Project management

Relevant Projects

- Phase I EDDAs for nine Airport Expansion Projects
- Phase I ESA and SWPPP Review for Trucking Facilities; Rayne, Louisiana
- 52-square-mile Phase I ESA for Wind Farm Construction; Colorado
- 43,000-acre Phase I ESA for Wind Farm Construction; Williams, Arizona
- Numerous Phase I ESAs for oil & gas facilities; Wyoming, North Dakota
- 4,500-acre Phase I ESA for Wind Farm Construction; New Mexico
- Phase I ESA of Former Naval Depot for Redevelopment; Guam
- 86-mile Transmission Line Phase I ESA and Wetland Delineation; Florence, South Carolina
- Several Phase I ESA for Solar Development; California, Arizona, New Mexico, and Hawaii
- 950-acre Phase I ESA and Wetland Delineation; Fort Stewart, Georgia
- EBS for Wastewater Treatment Plant Improvements; Schofield Barracks U.S. Army Post, Honolulu, Hawaii

Mr. O'Brien is an Environmental Specialist in SWCA's Phoenix, Arizona office. He has 18 years of experience in environmental consulting and technical writing, including 15 years of extensive experience performing Phase I environmental site assessments (ESAs), and is an integral part of SWCA's NEPA team.

He has performed numerous ESAs in a variety of locations, from uninhabited deserts and mountains to dense metropolitan settings in 20 states and Guam, from tiny parcels to 600-square mile assemblages, including a U.S. Environmental Protection Agency (EPA) Superfund site and Department of Defense sites. He teaches others to conduct ESAs and has prepared and taught classroom and field sessions on ESA field and writing techniques. His specialties include performing FAA-Standard Phase I Environmental Due Diligence Audits (EDDAs) for airport projects and using ASTM Standard 2247-08 for large-scale projects. He is skilled in applying the principles of ESAs to Environmental Baseline Surveys (EBSs) for Department of Defense sites and classification of environmental condition of property area types. He manages the large and difficult Phase I ESAs for SWCA.

Mr. O'Brien is also experienced in performing soil mapping, wetland delineations, habitat assessments, permitting, protected species, and stream morphology assessments. He has delineated more than 40,000 acres of wetlands and has performed assessment, design, and construction oversight for more than 250 stream stabilization sites. He has completed M.A.-level coursework in soil characterization and hydric soils. He has extensive experience performing construction oversight and has experience training contractors, staff, and local officials.

Mr. O'Brien has extensive plant, soil, and hydrology fieldwork experience, in locations from coastal marshes to deserts to high in the Rocky Mountains. He has been 40-hour Hazardous Waste and Emergency Response (HAZWOPER)-certified since 1996. He earned a Watershed Training Certificate from the EPA, a Water Supply Watershed Protection certificate, and is a current member of the Arizona Association of Environmental Professionals and the Arizona Riparian Council.

DEVIN KEANE**PLANNER AND PROJECT MANAGER**

Mr. Keane has been a project manager and environmental planner in SWCA's Phoenix office for ten years, currently residing in the Washington, DC metro area. Mr. Keane focuses on permitting compliance, policy analysis and research for Clean Water Act Sections 404, 402, 401, and NEPA. Mr. Keane has also completed numerous Phase I ESAs (Phase I), NEPA EAs, and Storm Water Pollution Prevention Plans, and is an 'Environmental Professional' per ASTM Phase I standards.

Mr. Keane has completed numerous jurisdictional determinations, wetland surveys and permits, coordinating with the USACE, state and local agencies for projects of varied sizes and complexity in Arizona, Utah, and Nevada. Areas of specialization include obtaining state and federal permits for clients, water resource studies, policy analysis, legal research, data collection and analysis. Types of determinations confirmed by USACE have ranged from several thousand acre projects containing ephemeral streams to small, isolated wetland delineations. Many of these determinations have led to preparing Section 404 permits of varied complexity and involved coordination with multiple agencies.

YEARS OF EXPERIENCE

10

EXPERTISEClean Water Act Permitting
(404/401/402)

NEPA Environmental Assessments

Phase I and II Environmental Site
Assessments

Statistics

EDUCATIONM.S., Applied Economics; Johns
Hopkins University; 2015M.A., Urban & Environmental Planning;
Arizona State University; 2006B.S., Geography; Northern Arizona
University; 2003**TRAINING**Time series analysis, Johns Hopkins
University, 2015Generalized Linear Regression
modeling in R, 2016Project Management Training, PMP,
2008**SELECTED PROJECT EXPERIENCE**

Cascada Master Planned Community Individual Permit Modification, Marana, Arizona (2016). Modification of a Section 404 Individual Permit for master planned development in Pima County, including a new Environmental Assessment (EA) and Alternatives Analysis to comply with NEPA, pursuant to USACE Guidelines. Project involved several modifications to the design, coordination with USACE, USFWS, local interest groups and client engineers. The permit project inception began in 2003 and underwent several iterations due to changing economic conditions. *Role: Permitting Specialist. Coordination with USACE, alternatives development, economic analysis of alternatives.*

Laughlin Airport Runway Extension, Mohave County, Arizona; USACE, FAA (2015). Prepared a Section 404 Nationwide Permit (NWP) for Laughlin-Bullhead Airport's runway extension project, pursuant to USACE Guidelines. Project involved several modifications to the design to reduce the permit from an Individual Permit to NWP, coordination with USACE, consultation with FAA on NEPA compliance, and project engineers. *Role: Project Manager.*

Pee Posh Wetlands Restoration, Gila River Indian Community, Arizona; Gila River Department of Water Resources (2013). Provided environmental services for enhancement and fire rehabilitation of the Pee Posh Wetlands on the Gila River Indian Community, within the Salt River floodplain. Services provided included a Section 404 wetlands delineation, biological surveys, 404 wetlands restoration permit and EPA Section 401 Certification. *Role: Project Manager.*

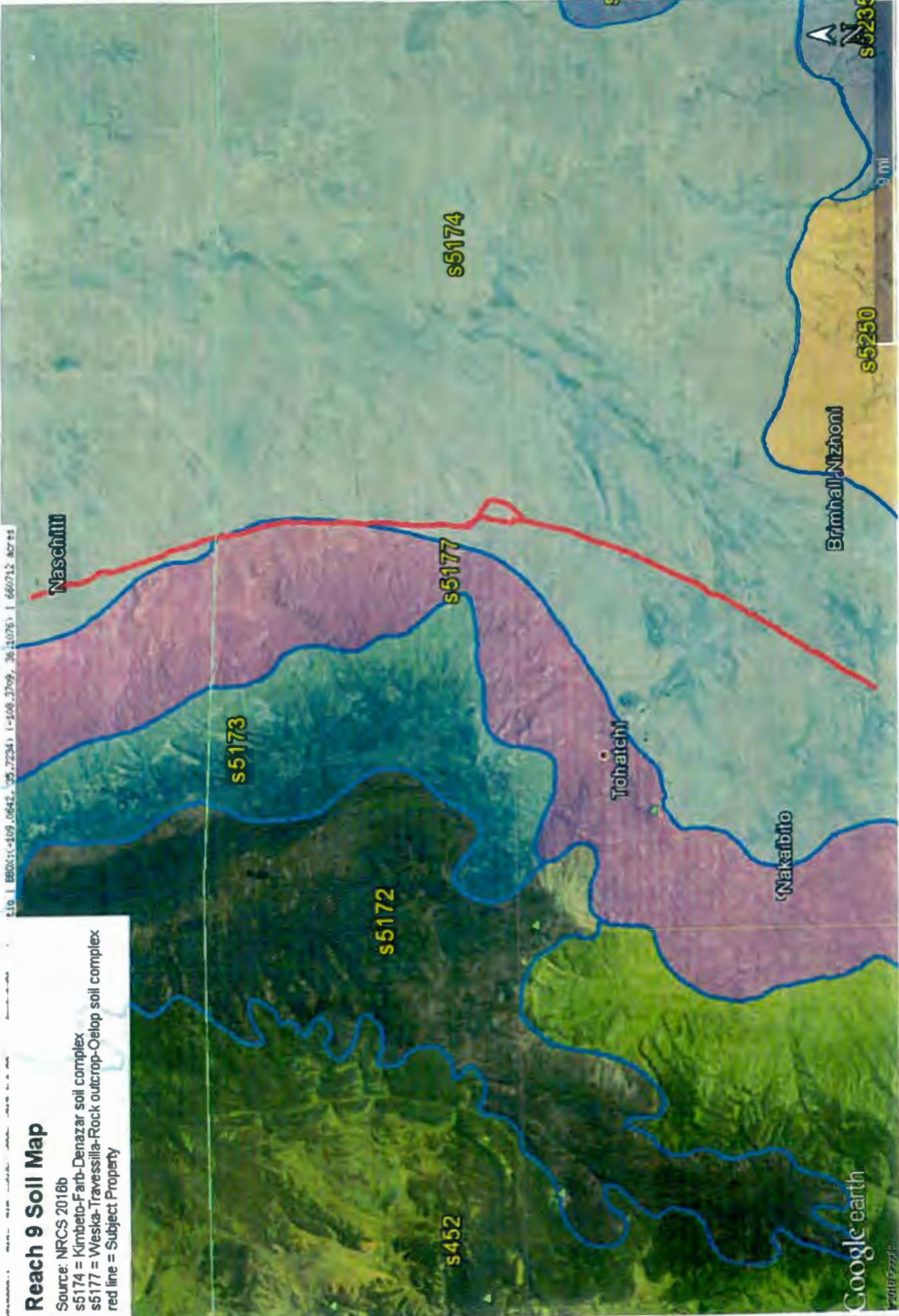
Laguna Fire Restoration Project, Yuma County, Arizona; Bureau of Land Management (2012). Provided environmental services for the rehabilitation of the fire damaged Betty's Kitchen recreation area along the Colorado River north of Yuma and Laguna Dam. Services provided included a Section 404 wetlands delineation, restoration permit and Arizona Section 401 Certification. *Role: Wetlands and Permitting Specialist.*

APPENDIX C
Additional Records

110 | 88001(-109.0642, 35.7234) | (-108.3709, 36.1076) | 660712 acres

Reach 9 Soil Map

Source: NRCS 2016b
s5174 = Kimbeto-Farb-Denazar soil complex
s5177 = Weska-Travessilla-Rock outcrop-Oelop soil complex
red line = Subject Property



APPENDIX D
Property Photographs



Photo 1. Part of a 2-chambered treatment lagoon northeast of Nachitti.



Photo 2. The other chamber of the lagoon was dry.



Photo 3. These residences are typical of those in the vicinity of Reach 9.



Photo 4. A corral typical of those in the vicinity of Reach 9.



Photo 5. Trash piles like this one were observed in the vicinity of Reach 9.



Photo 6. A pile of root wads, pallets, carpeting, a mattress, and household trash near a residence along Reach 9.



Photo 7. These pipelines were exposed by erosion within a wash 275 feet east of Reach 9, one mile north of Indian Service Route 692.



Photo 8. This trash and debris was present along the same wash as Photo 7.



Photo 9. This New Mexico Department of Transportation facility west of U.S. Route 491 had large piles of soil, sand, and gravel, and 2 large ASTs.



Photo 10. These pipes are part of the infrastructure associated with the Gallup Compressor Station.



Photo 11. These pipes are part of the infrastructure associated with the Gallup Compressor Station.



Photo 12. This used oil tank was within the fenced area in Photo 11.



Photo 13. This photograph is in the northeast of the compressor station area, where abandoned sewage treatment lagoons are located.



Photo 14. This freshwater lagoon at the compressor station was dry and lined.



Photo 15. A view of the main part of the compressor station.



Photo 16. An overall view of the main part of the compressor station.



Photo 17. Three large ASTs in secondary containment were in the main part of the compressor station. They were labeled turbine oil, ambitrol, and used oil.



Photo 18. This is the used oil AST at the main part of the compressor station.



Photo 19. Another view of the compressor station.



Photo 20. This wellhouse was pouring water into Red Willow Wash just upstream of Reach 9.



Photo 21. This photograph show the typical landscape in the southern part of Reach 9. This photograph was taken at Navajo Service Route 37.



Photo 22. This natural gas valve station was observed adjacent to Reach 9.

Navajo Gallup Water Supply Project
Reach 9 – Interview Responses via email
October 3rd, 2016

Name of Interviewer: Noel Tamboer, Nelson Consulting, Inc.

Name of Interviewee: Ryan Gladden, Bureau of Reclamation

The purpose of this investigation is to identify potential sources of environmental contamination along the subject property in question and to further inquire about the extent of contamination at each site. According to Ryan Gladden, with the Bureau of Reclamation, the only potential sites of serious environmental concern on this subject property are the Kinder Morgan Natural Gas Compressor Station and the lagoons at the north end of the Reach if they were not abandoned properly. There is not enough information given in this interview to determine the severity of the concern. There are no known spills or leaks within the subject property right-of-way (ROW).

Question: Has any part of the property ever been used for an industrial or commercial use?

Answer: "I am only aware of the Compressor Station on Reach 9 that would have potentially handled any hazardous substances. I was told by a resident whose family has lived nearby for many years that they used to see the operators (El Paso back then I believe) dump something around that area. Whether it was hazardous or not, the resident did not know and it was referred to as last happening in the late 80s or early 90s. I believe Kinder Morgan's lines are all natural gas and I am not sure if they deal with petroleum products within our reaches or what, if any, hazardous substances result from pumping the gas onwards at the compressor station."

Question: Has there ever been mining activity or oil and gas exploration or development on any part of the property?

Answer: "Yes there are high pressure gas lines that run along Reach 9. The compressor station is also located on Reach 9. There are some gas wells scattered around. Other than that, I am not aware of any other gas or oil exploration."

Question: When was the KMI pipeline installed? What does it carry? Have there been any known leaks, spills, cleanups, etc.? Do you have a contact for the pipeline we could speak with?

Answer: "I do not know of any spills, leaks, or cleanups. I believe all of their production is Gas in that area. If I remember right, it seems at least some of the gas lines were 40 or 50 year old possibly. I believe I was told this by one of the Kinder Morgan employees. You can speak with Larry Macias who has been helpful with me. His email is larry_macias@kindermorgan.com (I do not have a phone number) or David Haynes at (505) 722-3605."

Question: Has any part of the property ever been used for agricultural purposes, such as livestock or crops? Are there known livestock dip vats? If so, are the locations known?

Answer: "I have seen livestock about, but not any evidence of dip vats, or if they ever existed."

Question: Is there any evidence that waste materials were dumped above grade, buried, or burned, either currently or previously on the property? Examples include hazardous materials, petroleum products, labeled or unlabeled drums or containers, pesticide containers, household and farm debris, automotive or industrial batteries, building demolition debris, or other waste materials.

Answer: "There are trash dumping sites periodically along site. I did not look for or notice any hazardous materials."

Question: Are there current or past use of above-ground or underground storage tanks, including drums or other fuel containers, on the property? If yes, where, when, the types and quantities of materials stored? Was there ever a spill or release of hazardous substances associated with the tank system? Was it mitigated to the satisfaction of the lead regulatory agency?

Answer: "I am only aware of the above grade pads at the compressor station where tanks may have been located and used to store materials. I do not know what would have been stored."

Question: Has any part of the property itself ever had a septic system or sewer lagoon? There are some identified on Reach 9. What were they used for? When were they in use? When closed? Were they properly abandoned? Any known contamination to groundwater from the lagoons?

Answer: "Not in our ROW that I am aware of. There is a lagoon near the start of Reach 9 in Naschitti. I am not aware of any contamination. I do not know about their history. I assume they were used for the community of Naschitti and I do not know if they were properly abandoned."

Navajo Gallup Water Supply Project

Reach 9 – Phone Interview

October 5th, 2016

Name of Interviewer: Noel Tamboer, Nelson Consulting, Inc.

Name of Interviewee: MRutheyi Thompson, Bureau of Reclamation

The purpose of this investigation is to identify potential sources of environmental contamination along the subject property in question and to further inquire about the extent of contamination at each site. According to MRutheyi Thompson, with the Bureau of Reclamation, there are numerous potential sites of environmental concern along the proposed Reach 9 alignment, due to the mixed nature of land use in the area. The Kinder-Morgan Compressor Station being of primary concern.

1. Sewage lagoons in Naschitti, no identified information on whether or not they were properly abandoned. She said they had water in them last time she was onsite.
2. There are leaking above and below ground storage tanks at the old Naschitti Trading Post, doing business as Red Mesa Express. This site is west of the alignment and across the highway but MRutheyi is concerned because of the fact that the tanks are above the elevation and gradient of the proposed Reach 9 alignment. She said it doesn't look terribly concerning but it will probably be a REC.
3. NTUA has a subsurface pipeline near Indian Service Route 691 just south of proposed alignment. No further information given.
4. Frontier Communications has a fiber optic line in the area but MRutheyi did not think it was an issue (west of highway 491 and proposed Reach 9 alignment).
5. There is some sort of dry pond depression near Indian Service Route 9657, suspected to be a prior dip vat but only based on anecdotal evidence (Mr. Appcity or Appcity who has been a sheep farmer in the area since the 1950s). No documentation found elsewhere but he suggested it was used as a dip vat.
6. At the school in Naschitti there are a bunch of natural gas tanks that have their own storage containments but no leach fields (MRutheyi is unable to tell the exact details). There is also an aerator on the property but no one could verify its use.
7. Numerous single and/or twin overshoots within the washes throughout the alignment. Most are unlabeled. Abandoned pipelines? Stormwater outlets?
8. Abandoned tires EVERYWHERE, some in higher concentrations. MRutheyi isn't terribly concerned with these sites but she wants sufficient photos included in the assessment.
9. Arroyo/ditch dumpsites also need to be visually displayed with photographs. Some contain the occasional appliances but most of them are just full of old building material and household debris.
10. The New Mexico DOT yard at Buffalo Springs is another concerning site. They are a liquid generating station and have had at least one reportable petroleum spill that NNEPA is suspected to have taken care of. No sufficient documentation regarding this so it has not been confirmed who dealt with.

11. There have been several uncontrolled air emissions as the Kinder-Morgan Compressor Station. Known emissions of carbon monoxide, nitrogen dioxide, sulfur dioxide, pm10, VOCs. EPA ID numbers for the Gallup Compressor Station:

- a. Registry ID: 110007143509
- b. New Mexico Hazardous Waste Reporter ID: NMD000004572
- c. AFS ID: 3503100003

There has been EPA enforcement against them in 2002 and 2005. In 2002 it was based on annual compliance certification missed in 2001 and then the same in 2004. MRutheyi said according to what she was looking at they had still not achieved compliance. She said their record only goes back until 1989-1990 but they were in operation long before that. They are listed as a 'Small Quantity Generator' and are not conditionally exempt.

12. South of the compressor station there is an abandoned house where construction activities are suspected to have involved asbestos containing materials. It is and item of concern but looks like it could be outside of search radius.
13. At Red Willow Wash there was a former livestock pond. MRutheyi said this is really hidden; you have to know what you're looking for. Further down the wash there is an old livestock pump house. It is small, nothing of significant quantity but it is right at the intersection of the proposed alignment and Red Willow Wash.
14. Further south there is an electrical box that Rutheyi suspected belongs to Kinder-Morgan but it is not labeled. She mentioned she sent a photo of it with the other Reach 9 photos. She said it looks fairly new so it is not suspected to contain PCBs but it's less than 100 feet off of the proposed alignment (near Navajo Service Route 37; south of Red Willow Wash and North of Figueredo Wash).
15. Unknown concrete features north of Deer Springs Wash, near Indian Service Route 9. Unsure what the feature is, she said it looks almost dome-like. Further investigation may be necessary. She did not seem terribly concerned; more so would just like to know what it is.
16. Navajo Nation surface sites contain a couple of other potential dip vats along the subject property. There is a known historical sheep dip vat but it could be just outside of the search radius for the alignment. She did not say where.

Adapted from: *Environmental Compliance Memorandum No. ECM 10-2. Pre-Acquisition Environmental Assessment Guidance for Federal Land Transactions*. Appendix A: Land Acquisition Screening Process Worksheets, Worksheet 2: Interviews with Past and Present Owners, Operators, and Occupants. USDA Department of the Interior, 2010.

Person Interviewed: Ryan Gladden

Date of Interview: Week of September 26th, 2016

Via Phone or Email? Email, phone call if needed

Person Conducting Interview: Noel Tamboer

Site Name: NGWSP (Reaches 9, 10, 11, and 12.2)

1. Has any part of property ever been used for an industrial or commercial use (e.g., official and unofficial shooting ranges; processing, handling, management, disposal, storage, manufacture, or transportation of hazardous substances or petroleum products, such as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photographic developing laboratory, methamphetamine laboratory, junkyard, bone yard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility)? **I am only aware of the Compressor Station on Reach 9 that would have potentially handled any hazardous substances. I was told by a resident whose family has lived nearby for many years that they used to see the operators (El Paso back then I believe) dump something around that area. Whether it was hazardous or not the resident did not know and it was referred to as last happening maybe in the late 80's or early 90's. I believe Kinder Morgan's lines are all natural gas and I am not sure if they deal with petroleum products within our reaches or what, if any, hazardous substances result from pumping the gas onwards at the compressor station.**
2. Has there ever been mining activity or oil and gas exploration or development on any part of the property? **Yes there are high pressured gas lines that run along reach 9, 10, and 11. The compressor station is on reach 9. There are some gas wells scattered around. Other than that, I am not aware of any other gas or oil exploration.**
3. When was the KMI pipeline installed? What does it carry? Have there been any known leaks, spills, cleanups, etc? Do you have a contact for the pipeline we could speak with? (Reaches 9/10/11 only) **I do not know of any spills, leaks, cleanups. I believe all of their production is Gas in that area. If I remember right, it seems at least some of the gaslines were 40 or 50 years old possibly. I believe I was told this by one of the Kinder Morgan employees. You can speak with Larry Macias who has been helpful with me. His email is larry_macias@kindermorgan.com (I do not have a phone number) or David Haynes at 505-722-3605.**

4. Has any part of the property ever been used for agricultural purposes, such as livestock or crops? Are there known livestock dip vats? If so, are the locations known? **I have seen livestock about, but not any evidence of any dip vats, or if they ever existed within any reaches.**
5. Do the current operations on the property involve the use and storage of chemicals? **I do not know for certain.**
6. Are there any past operations at the property that involved the use or storage of hazardous materials and substances? **I do not know.**
7. Has there been a known spill or release of hazardous substances, petroleum products, or other potential environmental problems on any part of the property? **Not that I am aware of.**
8. If yes, has the release been mitigated? If yes, describe the mitigation, and indicate if the lead regulatory agency issued a no-further action determination. **I do not know.**
9. Has fill material ever been brought onto the property that originated from a contaminated site or that was of an unknown origin? **Not that I am aware of.**
10. Is there any evidence that waste materials were dumped above grade, buried, or burned, either currently or previously, on the property? Examples include hazardous materials, petroleum products, labeled or unlabeled drums or containers, pesticide containers, household and farm debris, automotive or industrial batteries, building demolition debris, or other waste materials. **There are trash dumping sites periodically along site. A lot of garbage has been dumped on reach 11 near the large wash. I did not look for or notice any hazardous materials.**
11. Are there current or past use of above-ground or underground storage tanks, including drums or other fuel containers, on the property? If yes, where, when, the types and quantities of materials stored? Was there ever a spill or release of hazardous substances associated with the tank system? Was it mitigated to the satisfaction of the lead regulatory agency? **I am only aware**

of the above grade pads at the Compressor station on reach 9 where tanks may have been located and used to store materials. I do not know what would have been stored.

12. Are you aware of any hazardous substance or pollutant or contaminant spill or release, or other potential environmental problems on any adjacent or nearby properties? Are you aware of contamination or residual contamination on adjacent or nearby properties that poses a threat or may pose a future threat to the property? **No I am not aware of any contamination or residual contamination on adjacent or nearby properties.**

13. Have contaminants ever been identified in on-site or adjacent drinking water wells or water systems, that exceeded acceptable levels? **I do not know.**

14. Does the property have any groundwater monitoring wells? If yes, explain the purpose of the wells. **I do not know.**

15. Has any part of the property itself ever had a septic systems or sewage lagoon? Not in our ROW that I am aware of. **There is an abandoned lagoon near our ROW on Reach 11 and one near the start of reach 9 in Naschitti.**

16. Are you aware of any environmental liens or environmental activity and land use limitations against the property that were filed or recorded under Federal, Tribal, State or local law? **I am not aware.**

Reach-Specific Questions:

Reach 9:

Old waste lagoons were identified north of Naschitti, what were these used for? When were they in use? When closed? Were they properly abandoned? Any known contamination to groundwater from the lagoons? **I am not aware of any contamination. I do not know about their history. I assume they were used for the community of Naschitti and I do not know if they were properly abandoned.**

DOT Facility west of 491 in the middle of the reach: Any known spills, leaks, cleanups there? There appear to be a few aboveground storage tanks (ASTs) – were there ever any underground storage tanks (USTs) there? **I do not know.**

Compressor station: When was it installed? What were the pits and lagoons used for? Were they lined or unlined? Are any still in use? Are there any known leaks, spills, or sources of contamination there? Do you have a contact for the compressor station we could speak with? **I would use the contacts listed above for Kinder Morgan. I do not know the answer to these questions.**

Reach 10: None.

Reach 11:

Lagoons northeast of Twin Lakes: What were they used for? Were they lined or unlined? Are any still in use? Are there any known leaks, spills, or sources of contamination there? **I do not know. No, I do not believe they are in use.**

Reach 12-2:

The coal mine: years of operation? Any known downstream contamination? Any problems with the areas that have been reclaimed where the corridor crosses through?

Speedy Gas Station at the east end: What is the current status of the cleanup?

Junkyard on a hilltop 1/2 mile north, up Star Route 5: Any known issues that could affect the corridor?

Any septic systems on or adjacent to the corridor?

**PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)
USER QUESTIONNAIRE**

Completed by:
[Gary Vance, USBR]

Date: [10/3/2016]

Re: Phase I Environmental Site Assessment for NGWSP: Reaches 9, 10, 11, 12.2

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*¹ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments")², the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate inquiries*" is not complete.

The *user* is defined as "the party seeking to use Practice E1527 to complete an *environmental site assessment* of the *property*. A *user* may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an owner of *property*, a lender, or a *property* manager. The *user* has specific obligations for completing a successful application of this practice outlined in Section 6" of ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

1) Environmental cleanup liens that are filed or recorded against the *property* (40 CFR 312.25) – Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed against the *property* under federal, tribal, state, or local law? () Yes () No If yes, please describe:

I did not complete a search of recorded land title records.

Note 1 – In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

2) Activity and land use limitations that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and vi) – Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any Activity and Use Limitations (AULs), such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law? () Yes () No. If yes, please describe:

I did not complete a search of recorded land title records.

¹ *Landowner Liability Protections, or LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide)* issued on March 6, 2003.

² Public Law 107-118.

3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28) - Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? () Yes (X) No If yes, please explain:

4) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29) – Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? () Yes () No If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? () Yes () No If yes, please describe:

I do not have any responsibility for the purchase price.

5) Commonly known or reasonably ascertainable information about the *property* (40 CFR 312.30) – Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

- a. Do you know the past uses of the *property*?
No
- b. Do you know of specific chemicals that are present or once were present at the *property*?
Asbestos coating from the Helium pipeline.
- c. Do you know of spills or other chemical releases that have taken place at the *property*?
No
- d. Do you know of any environmental cleanups that have taken place at the *property*?
No
- e. Do you know of any previous Phase I Environmental Site Assessment performed for the *property*? () Yes (X) No. If yes, can copies be provided?
- f. If available, please provide contact information for someone knowledgeable about past uses of the *property* (present or past owner, operator or occupant).

N/A

6) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31) – Based on your knowledge and experience related to the *property* are

there any *obvious* indicators that point to the presence or likely presence of releases at the property? (X) Yes () No If yes, please describe:

The asbestos wrapped Helium pipeline daylights and is visible periodically from Gallup, NM up toward Shiprock, NM.

Record of Contacts for Additional Interviews regarding Reach 9 of the NGWSP.

Conducted by: Steve O'Brien, SWCA

Date: Week of November 7, 2016

Geoff Heidke in the Kinder Morgan (KMI) ROW department

(505) 831-7770 / geoff_heidke@kindermorgan.com

- Called him 11/7. He said contact Larry ___ in operations, who would be more local. Was not at his computer and said to send an email, which I did.
- Email from G. Heidke on 11/8: Call Larry Macias, Operations Manager

Larry Macias, KMI Operations Manager

Office: 505-722-3634. Cell: 505-870-0877

Called him 11/8 and left message. Larry called me 11/9. Said:

- We spoke about the compressor station and pipeline history.
- There was a camp on the north side of the compressor station that was removed decades ago.
- There was a sewage pond that was covered over in 1992 or so, no known contamination.
- The only pond now is a lined pond with clean fresh water for cooling.
- The original compressor station was installed in the early 1950s due east of the current one, and has since been removed.
- The new compressor station was completed in 1969 or 1970. There is no known contamination. Significant leaks or spills. All large tanks have secondary containment and no known leaks or spills.
- Regarding all of the KMI pipeline in NW New Mexico, there have been no leaks, spills, or known contamination.
- The exposed pipelines in dry washes are not a concern, especially since the soil is sandy – there aren't moving boulders, etc. to potentially damage the lines.

Ronnie Ben, Navajo Nation EPA Surface and Groundwater Protection

ronnieben@navajo-nsn.gov (928) 871-7701

- Called him 11/7 left msg. He passed my info to Patrick Antonio, who called me 11/9

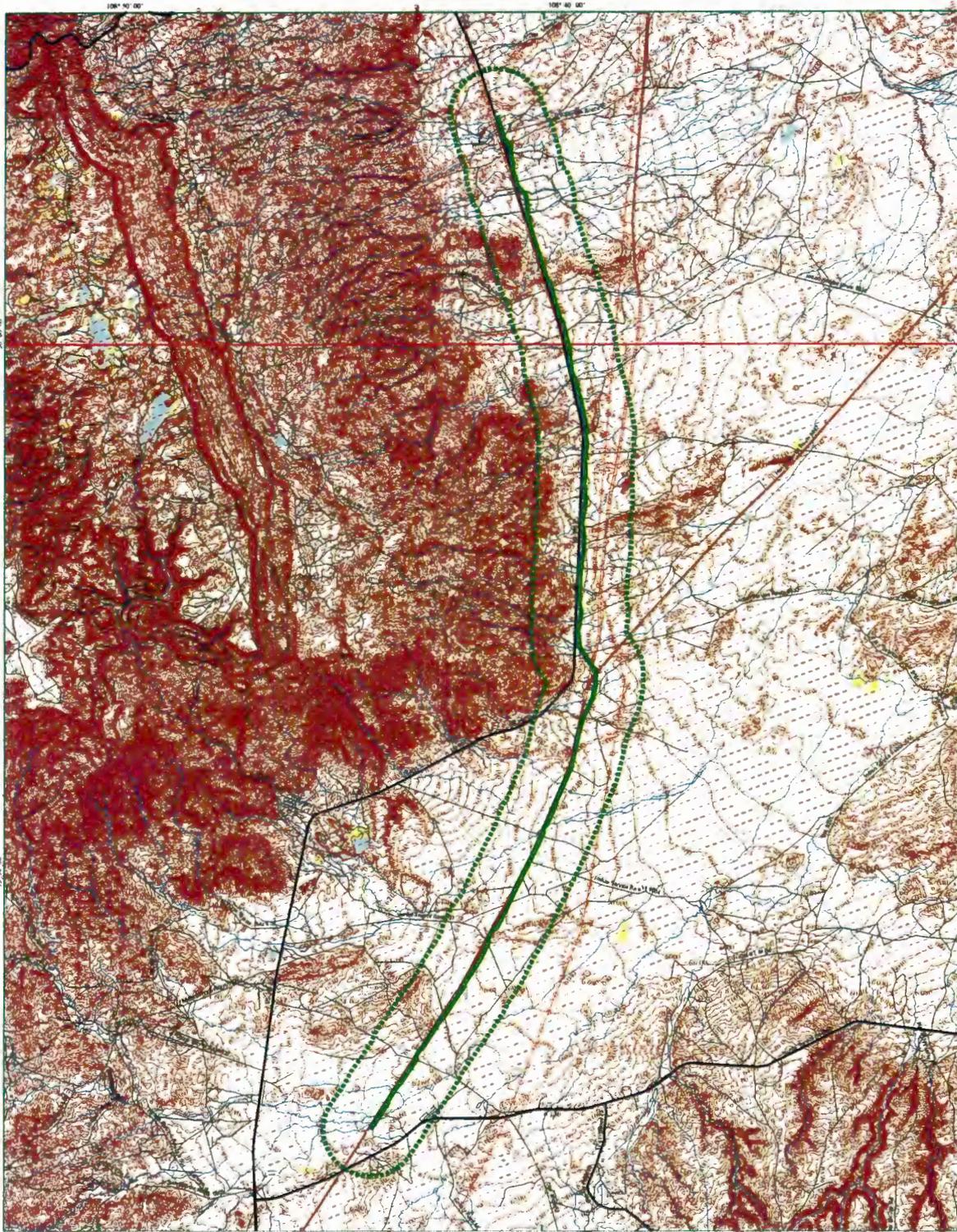
Patrick Antonio, NN Water Quality ADPS Program

patrickantonio@navajo-nsn.gov.

- We spoke about several Reaches of the NGWSP.
- Regarding Reach 9, he didn't know of any concerns related to contamination along the corridor.

APPENDIX F

Environmental Database Records



EDR DataMap® - Corridor Study
26986.05 NGWSP Segment 9



Tohatchi, NM

- | | | | |
|--|---------------|-------------|----------------------------|
| Listed Sites | Major Roads | Pipelines | Superfund Sites |
| Earthquake Epicenters (Richter 5 or greater) | Waterways | Powerlines | Federal DOD Sites |
| Search Boundary | Railroads | Fault Lines | Indian Reservations BIA |
| Roads | Contour Lines | Water | National Wetland Inventory |



26986.05 NGWSP Segment 9
Tohatchi, NM 87325

Inquiry Number: 4722629.2s
September 12, 2016

EDR DataMap™ Corridor Study



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edmet.com

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

TOHATCHI, NM 87325
TOHATCHI, NM 87325

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL LIENS	Federal Superfund Liens
SEMS	Superfund Enterprise Management System
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
LIENS 2	CERCLA Lien Information
CORRECTS	Corrective Action Report
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
DOT OPS	Incident and Accident Data
US CDL	National Clandestine Laboratory Register
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODL	Open Dump Inventory
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems

EXECUTIVE SUMMARY

ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
PCB TRANSFORMER.....	PCB Transformer Registration Database
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ECHO.....	Enforcement & Compliance History Information
FEMA UST.....	Underground Storage Tank Listing
FEDERAL FACILITY.....	Federal Facility Site Information listing
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
COAL ASH DOE.....	Steam-Electric Plant Operation Data
2020 COR ACTION.....	2020 Corrective Action Program List
PRP.....	Potentially Responsible Parties
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
UXO.....	Unexploded Ordnance Sites
US HIST CDL.....	Delisted National Clandestine Laboratory Register
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing

STATE AND LOCAL RECORDS

SCS.....	State Cleanup Sites Listing
SHWS.....	This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
SWF/LF.....	Solid Waste Facilities
SWRCY.....	Recycling Facility Listing
LTANKS.....	Leaking Storage Tank Listing
LUST.....	Leaking Underground Storage Tank Prioritization Database
TANKS.....	Storage Tank Facility Listing
UST.....	Listing of Underground Storage Tanks
LAST.....	Leaking Aboveground Storage Tank Sites
AST.....	Aboveground Storage Tanks List
SPILLS.....	Spill Data
INST CONTROL.....	Sites with Institutional Controls
VCP.....	Voluntary Remediation Program Sites
DRYCLEANERS.....	Drycleaner Facility Listing
BROWNFIELDS.....	Brownfields Site Listing
CDL.....	Clandestine Drug Laboratory Listing
NPDES.....	List of Discharge Permits
AIRS.....	Airs Information
ASBESTOS.....	List of Asbestos Demolition and Renovations Jobs
MINES.....	Coal Mine Permits Database

TRIBAL RECORDS

INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

INDIAN VCP..... Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historic Gas Stations
EDR Hist Cleaner..... EDR Exclusive Historic Dry Cleaners
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank
RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

TRIBAL RECORDS

INDIAN RESERV: This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 INDIAN RESERV site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
NAVAJO INDIAN RESERV		0	4

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL RECORDS</u>	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
SEMS	0
SEMS-ARCHIVE	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PCB TRANSFORMER	0
DOCKET HWC	0
FUELS PROGRAM	0
ECHO	0
FEMA UST	0
FEDERAL FACILITY	0
LEAD SMELTERS	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
US AIRS	0
FUSRAP	0
COAL ASH DOE	0
2020 COR ACTION	0
PRP	0
COAL ASH EPA	0
EPA WATCH LIST	0
US FIN ASSUR	0
UXO	0
US HIST CDL	0
SCRD DRYCLEANERS	0
 <u>STATE AND LOCAL RECORDS</u>	
SCS	0
SHWS	N/A
SWF/LF	0
SWRCY	0
LTANKS	0
LUST	0
TANKS	0
UST	0
LAST	0
AST	0
SPILLS	0
INST CONTROL	0
VCP	0
DRYCLEANERS	0
BROWNFIELDS	0
CDL	0
NPDES	0
AIRS	0
ASBESTOS	0
MINES	0
 <u>TRIBAL RECORDS</u>	
INDIAN RESERV	1
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
 <u>EDR PROPRIETARY RECORDS</u>	
EDR MGP	0
EDR Hist Auto	0
EDR Hist Cleaner	0
RGA LUST	0
RGA LF	0

MAP FINDINGS SUMMARY

Database

Total
Plotted

NOTES:

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS

Map ID			EDR ID Number
Direction			
Distance			
Distance (ft.)	Site	Database(s)	EPA ID Number

IND RES **NAVAJO INDIAN RESERVATION**
Region

NAVAJO INDIAN RESERVATION (County), AZ

INDIAN RESERV **CIND100321**
N/A

INDIAN RESERV:
Feature: Indian Reservation
Name: Navajo Indian Reservation
Agency: BIA
State: AZ-NM-UT



ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BECLABITO	1004754665	USDOI BIA BECLABITO DAY SCHOOL	CLIFTON RD AND HWY 64	87420	RCRA-CESOG
BECLABITO	1008341484	BECLABITO LEASE URANIUM MINES	2 MILES SOUTH OF BICLABITO T.	87420	SEMS
BECLABITO	1008341486	NAVAJO - CANYON VIEW (ALONGO CLAIM) URAN	T29N, R21W, NEW MEXICO	87420	SEMS
BECLABITO	1003879562	NAVAJO - ROCKY FLATS URANIUM MINE	2.5 MI S. OF ST. HWY 504 IN TRI	87420	SEMS-ARCHIVE
BECLABITO	1003879551	NAVAJO - CANYON T URANIUM MINE	4.5 MI SO OF HWY 504 ON TRIBA	87420	SEMS-ARCHIVE
BECLABITO	1003879564	NAVAJO - TENT URANIUM MINE	OAK SPRINGS, NAVAJO RESERVATION	87420	SEMS-ARCHIVE
HOGBACK	1016978186	HOGBACK TRADING POST	HOGBACK, MNORTH SIDE OF HWY 64, EAST END OF HOGBACK MOUNTAI	87420	INDIAN LUST
MCKINLEY COUNTY	1016170691	CROSSROADS RAD SITE	35.347844, -107.780181		SEMS
MCKINLEY COUNTY	S111022915	ESCALANTE GENERATING STATION (CLOSED)	297 CTY. RD 19; CLOSED JUNE 30, 1992		SWF/LF
MCKINLEY COUNTY	1015731618	DYSART #2 MINE - URANIUM MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731615	JOHN BULLY MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731628	SECTION 36 MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731617	SECTION 12 MINE - URANIUM MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731616	SANDSTONE URANIUM MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	S111022906	CITY OF GALLUP MUNICIPAL LANDFILL	T15N, R18W, E 1/2 SECTION 11, MCKINLEY COUNTY NORTHEAST OF G		SWF/LF
MCKINLEY COUNTY	1015731628	MARQUEZ MINE	SECTION 23, T13N, R9W		SEMS
MCKINLEY COUNTY	1015731623	SECTION 15 MINE	SECTION 30, T14N, R10W		SEMS
MCKINLEY COUNTY	1015731624	SECTION 30 MINE	SECTION 30, T14N, R9W		SEMS
NASCHITTI	1008393307	RED MESA #507 AKA NASCHITTI TRADING POST	HCR 330 HWY 866	87325	INDIAN UST
NASCHITTI	1008393287	NASCHITTI SCHOOL	558 ROAD 6100 NASCHITTI	87325	INDIAN UST
NASCHITTI	1010589358	NASCHITTI SCHOOL	558 ROAD 6100 NASCHITTI	87325	INDIAN UST
NEWCOMB	U003913222	NEWCOMB TRANSPORTATION DEPARTMENT	HWY 666 NEWCOMB	87325	UST
NEWCOMB	S111764873	NEWCOMB TRANSPORTATION DEPARTMENT	HWY 666 NEWCOMB	87325	TANKS
OAK SPRINGS	1003879568	NAVAJO - KING TUTT #1 URANIUM MINE	NAVAJO RESERVATION	87420	SEMS-ARCHIVE
OAK SPRINGS	1003879559	NAVAJO - JIMMY KING #2	NAVAJO RESERVATION	87420	SEMS-ARCHIVE
OAK SPRINGS	1003879567	NAVAJO - BEGAY INCLINE URANIUM MINE	9MI. N NE OF RED VALLEY, AZ	87420	SEMS-ARCHIVE
RED VALLEY	1016457414	RED ROCK TRADING POST - #524	HWAY 13, 21 MI W OF HWY 491	87420	INDIAN LUST
RED VALLEY	1016978117	RED ROCK TRADING POST - #524	HWAY 13, 21 MI W OF HWY 491	87420	INDIAN LUST
SHEEP SPRINGS	S111764824	NASCHITTI	HWY 666	87325	TANKS
SHEEP SPRINGS	U003913217	NASCHITTI	HWY 666	87325	UST
SHIPROCK	1016457419	THRIFTWAY 241 AKA WHITE EAGLE STATION AKA SOUTHWEST ATR	HWY 491/64	87420	INDIAN UST
SHIPROCK	1016978139	CHIEF CONOCO	HWY 491/64	87420	INDIAN LUST
SHIPROCK	1016457400	CHIEF CONOCO	HWY 491/64	87420	INDIAN UST
SHIPROCK	1016978123	THRIFTWAY 241 AKA WHITE EAGLE STATION AKA SOUTHWEST ATR	HWY 491/64	87420	INDIAN LUST
SHIPROCK	1001079547	SHIPROCK WATER OPER AND MAINT	HWY 504 AND FARM TRAINING RD	87420	RCRA-SOG
SHIPROCK	U003913234	SHIPROCK TRADING CO	HWY 550	87420	UST
SHIPROCK	U003193039	SHIPROCK SEWER LIFT	HWY 550 SHIPROCK	87420	LUST, LTANKS, TANKS
SHIPROCK	S111765312	SHIPROCK TRADING CO	HWY 550	87420	TANKS
SHIPROCK	U003913235	SHIPROCK TRANSPORTATION DEPARTMENT A	HWY 550 SHIPROCK	87420	UST

Count: 92 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SHIPROCK	1011843684	NAVAJO COUNTRY EXPRESS	HWY 62 AND HWY 491	87420	INDIAN LUST, INDIAN UST
SHIPROCK	S111765310	SHIPROCK ADMINISTRATION OFFICE	HWY 64	87420	TANKS
SHIPROCK	U003913233	SHIPROCK ADMINISTRATION OFFICE	HWY 64	87420	UST
SHIPROCK	1014395009	SHIPROCK HIGH SCHOOL	HWY 64 W	87420	RCRA-CESQG
SHIPROCK	1009394179	NTUA VEHICLE SHOP SHIPROCK	HWY 64	87420	INDIAN LUST, INDIAN UST
SHIPROCK	1009393538	SEVEN-2-ELEVEN	HIGHWAY 64, P.O. BOX 8091.4 MILIES EAST OF SAN JUAN BRIDGE	87420	INDIAN UST
SHIPROCK	1009393484	FAA RMLR SHIPROCK	HWY 666	87420	INDIAN UST
SHIPROCK	1009393535	OLD EL NAVAJO GARAGE (ORIGINAL MONTANO'S)	HWY 666 & HWY 64	87420	INDIAN UST
SHIPROCK	1004754635	BRANCH OF ROADS SHIPROCK AG	HWY 666 WELLS FARGO BANK W	87420	RCRA-CESQG
SHIPROCK	U003913221	NEWCOMB TRANSPORTATION	HWY 666	87420	UST
SHIPROCK	1001022428	NAVAJO ENGINE AND CONST AUTH SHOP	HWY 666 NO 1 URANIUM BLVD	87420	RCRA-SQG
SHIPROCK	1004754692	BRANCH OF ROADS - SHIPROCK AG	HWY 666 1ST NATIONAL BANK W	87420	RCRA-CESQG
SHIPROCK	S111764872	NEWCOMB TRANSPORTATION	HWY 666	87420	TANKS
SHIPROCK	1000638226	NAVAJO ENG & CONST AUTH SHOP	HWY 666 #1 URANIUM BLVD 1/4M S	87420	RCRA NonGen / NLR
SHIPROCK	1009393312	NORTHERN NAVAJO MEDICAL CENTER	P.O. BOX 160 NORTH HWY 491	87420	INDIAN UST
SHIPROCK	1009393366	GIANT AKA THRIFTWAY 202 OR 2202	NW CORNER JCT U.S. HWY 64 AND 491	87420	INDIAN UST
SHIPROCK	1014395013	CAREER PREP HIGH SCHOOL	W HIGHWAY 64 - P.O. BOX 1199	87420	RCRA-CESQG
SHIPROCK	1009393542	SHIPROCK BIA IRRIGATION	US HIGHWAY 550EAST OF COMMUNITY OF SHIPROCK	87420	INDIAN UST
SHIPROCK	1016878142	SHIPROCK BIA IRRIGATION	US HIGHWAY 550EAST OF COMMUNITY OF SHIPROCK	87420	INDIAN UST
SHIPROCK	S111765571	THRIFTWAY 202 R	US HWY 160 AND 666	87420	TANKS
SHIPROCK	U003913238	THRIFTWAY 202 R	US HWY 160 AND 666	87420	UST
SHIPROCK	S111765577	THRIFTWAY 301 R	US HWY 550	87420	TANKS
SHIPROCK	U003913194	ARNOLDS FINA 2	US HWY 666	87420	UST
SHIPROCK	1011843691	UNITED INDIAN TRADING 301 (FORMER THRIFTWAY)	U.S. HWY 64 (FORMERLY HWY 550)	87420	INDIAN LUST, INDIAN UST
SHIPROCK	1012054081	ARNOLD'S FINA (ATA CONOCO)	US HWY 666, P.O. BOX 3296	87420	INDIAN LUST, INDIAN UST
SHIPROCK	1001113284	NAVTECH OF NEW MEXICO	S HWY 666 AND NAVTECH BLVD	87420	RCRA-SQG
SHIPROCK	U003913246	THRIFTWAY 301 R	US HWY 550	87420	UST
SHIPROCK	S111763447	ARNOLDS FINA 2	US HWY 666	87420	TANKS
SHIPROCK	1010324941	NTUA SHIPROCK DISTRICT	INT OF HWY US 64 AND US 491	87420	RCRA-CESQG
SHIPROCK	1008341480	NAVAJO - VANADIUM CORP. OF AMERIC PLOT 3	8.5 MI N NE OF RED VALLEY, AZ	87420	SEMS
SHIPROCK	1012125253	LUTHER SELL'S MARKET	EAST OF HWY 491, SOUTHWEST OF ARNOLD'S CONONCOSHIPROCK, NM	87420	INDIAN LUST
SHIPROCK	1014395014	TSE' BIT' AI MIDDLE SCHOOL	WEST OF HWY 491	87420	RCRA-CESQG
SHIPROCK	1009394216	NATAANI NEZ ELEMENTARY SCHOOL BUS BARN	SOUTH OF HWY 64, EAST OF HWY 666	87420	INDIAN LUST, INDIAN UST
SHIPROCK	1004754064	APL-SHIPROCK	4 MI S OF SHIPROCK ON HWY 666	87420	RCRA NonGen / NLR, FINDS, ECHO
SHIPROCK	1012054071	NM STATE HWY DEPT. SHIPROCK	EAST SIDE OF HWY 666 1/2 MI S OF JCT US 64	87420	INDIAN LUST, INDIAN UST
SHIPROCK	1004754612	SHIPROCK BUS BARN	STATE HWY 64 ALSO KNOWN AS	87420	RCRA-CESQG
SHIPROCK	1004754680	USDOI BIA ROOF BUTTE TOWER	10 MI SW OF RED ROCK AZ ON NAV	87420	RCRA-CESQG
SHIPROCK	1008341520	CHIEF CONOCO	NORTH U.S. HWY 666	87420	SEMS-ARCHIVE
SHIPROCK	1009394159	SHIPROCK EXPRESS #515	N. U.S. HWY 491	87420	INDIAN LUST, INDIAN UST
SHIPROCK NM	1018149132	GOLD KING MINE RELEASE REGION 9 EMERGENCY RESPONSE	1234 MAIN STREET - THIS ISN'T REAL	87420	SEMS
TOHACHI	1014395006	TOHACHI MIDDLE SCHOOL	HIGHWAY 491, OFF COUGAR LN	87325	RCRA-CESQG
TOHACHI	1014395007	TOHACHI HIGH SCHOOL	HIGHWAY 491, OFF COUGAR LN	87325	RCRA-CESQG
TOHATCHI	1015755121	GIANT #7251 (FORMERLY MUSTANG #7251) (FORMERLY THRIFTWAY 251	HIGHWAY 491 MM 23	87325	INDIAN UST

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TOHATCHI	1009393459	BUFFALO SPRINGS PATROL YARD	ROUTE 666	87325	INDIAN UST
TOHATCHI	1016978161	CHUSKA TRADING POST	HWAY 491 SW SR 108	87325	INDIAN LUST, INDIAN UST
TOHATCHI	U003913241	THRIFTWAY 251 R	US HWY 666	87325	UST
TOHATCHI	S111765573	THRIFTWAY 251 R	US HWY 666	87325	TANKS
TOHATCHI	1016978162	TOHATCHI TRADING POST	INDIAN SERVICE ROUTE 108 OFF HWAY 491	87325	INDIAN LUST, INDIAN UST
TOHATCHI	S117937722	TOHATCHI CONVENIENCE CENTER (CLOSED)	MCKINLEY COUNTY		SWF/LF
TOHATCHI	1001488831	USDOI BIA CHUSKA BOARDING SCHOOL	MI POST 21 1/4 MI NE HWY 666	87325	RCRA-CESQG
TOHATCHI	1000147035	NAVAJO TOHATCHIE DIP VAT	1/2MI. S.OF TOHATCHI, EAST SIDE OF RD.	87325	SEMS-ARCHIVE
TOHATCHI	1012125232	ALLISON'S TRADING POST	TOHATCHI, NM	87325	INDIAN LUST
TWO GREY HILLS	1012054068	TWO GREY HILLS TRADING POST	PHYSICAL JCT OF HWY 5000 AND HWY 5001 7 M. W. OF NEWCOMB	87325	INDIAN LUST, INDIAN UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 07/29/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 149

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 09/09/2016
Number of Days to Update: 74	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 09/09/2016
Number of Days to Update: 146	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/20/2016
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/07/2016
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/02/2016	Telephone: 303-231-5959
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 09/01/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 09/02/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/02/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 08/26/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 06/24/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/05/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (214) 665-2200
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 09/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/26/2016	Telephone: 202-564-8600
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPANTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015	Source: EPA
Date Data Arrived at EDR: 10/27/2015	Telephone: 202-564-2496
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 06/22/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Annually

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 09/06/2016
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/08/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2016	Telephone: 202-566-1917
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/17/2016
Number of Days to Update: 107	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/08/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/11/2016	Source: Department of Energy
Date Data Arrived at EDR: 03/15/2016	Telephone: 202-586-3559
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 49

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/20/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Varies

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

STATE AND LOCAL RECORDS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A	Source: Department of the Environment
Date Data Arrived at EDR: N/A	Telephone: 505-827-2918
Date Made Active in Reports: N/A	Last EDR Contact: 06/24/2016
Number of Days to Update: N/A	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: N/A

SCS: State Cleanup Sites Listing

State cleanup sites that fall under the state's Water Quality Control Commission Regulations.

Date of Government Version: 04/14/2016	Source: Environment Department
Date Data Arrived at EDR: 04/21/2016	Telephone: 505-827-2855
Date Made Active in Reports: 06/21/2016	Last EDR Contact: 04/19/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Varies

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/01/2015	Source: New Mexico Environment Department
Date Data Arrived at EDR: 06/12/2015	Telephone: 505-827-0347
Date Made Active in Reports: 07/23/2015	Last EDR Contact: 08/12/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWRCY: Recycling Facility Listing

A listing of recycling facility locations.

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 06/12/2015
Date Made Active in Reports: 07/23/2015
Number of Days to Update: 41

Source: Environment Department
Telephone: 505-827-0197
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

LTANKS: Leaking Storage Tank Listing

A listing of leaking storage tank site locations.

Date of Government Version: 01/04/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/17/2016
Number of Days to Update: 40

Source: Environment Department
Telephone: 505-476-4390
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LUST: Leaking Underground Storage Tank Priorization Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 10/06/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 33

Source: New Mexico Environment Department
Telephone: 505-476-4397
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

TANKS: Storage Tank Facility Listing

A listing of aboveground and underground storage tank site locations.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 02/02/2016
Number of Days to Update: 56

Source: Environment Department
Telephone: 505-476-4390
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

UST: Listing of Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/27/2006
Date Made Active in Reports: 10/23/2006
Number of Days to Update: 26

Source: New Mexico Environment Department
Telephone: 505-476-4397
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank sites.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 06/05/2006
Number of Days to Update: 35

Source: Environment Department
Telephone: 505-476-4397
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

AST: Aboveground Storage Tanks List

Aboveground tanks that have been inspected by the State Fire Marshal.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/27/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 23

Source: Environment Department
Telephone: 505-476-4397
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

SPILLS: Spill Data

Hazardous materials spills data.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 64

Source: Environment Department
Telephone: 505-827-0166
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

INST CONTROL: Sites with Institutional Controls

Sites included in the Voluntary Cleanup listing that have Institutional Controls in place.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 48

Source: Environment Department
Telephone: 505-827-2754
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

VCP: Voluntary Remediation Program Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 48

Source: Environment Department
Telephone: 505-827-2754
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facility locations. The listing may contain facilities that are no longer there, or under different management.

Date of Government Version: 01/06/2010
Date Data Arrived at EDR: 01/07/2010
Date Made Active in Reports: 02/04/2010
Number of Days to Update: 28

Source: Environment Department
Telephone: 505-222-9507
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

BROWNFIELDS: Brownfields Site Listing

A listing of targeted brownfields assessment.

Date of Government Version: 04/01/2016
Date Data Arrived at EDR: 05/12/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 27

Source: New Mexico Environment
Telephone: 505-827-0171
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CDL: Clandestine Drug Laboratory Listing

A listing of clandestine drug labs, such as illegal methamphetamine labs.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 04/22/2014
Date Made Active in Reports: 05/20/2014
Number of Days to Update: 28

Source: Environment Department
Telephone: 505-476-6000
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: List of Discharge Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 04/01/2016	Source: Environment Department
Date Data Arrived at EDR: 04/21/2016	Telephone: 505-827-2918
Date Made Active in Reports: 06/16/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Semi-Annually

AIRS: Airs Information

A listing of facilities with Air Quality Bureau permits.

Date of Government Version: 04/18/2016	Source: New Mexico Environment Department
Date Data Arrived at EDR: 04/27/2016	Telephone: 505-476-4339
Date Made Active in Reports: 06/08/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Annually

ASBESTOS: List of Asbestos Demolition and Renovations Jobs

Asbestos is a common fibrous rock found worldwide which has been used in various products for over 4500 years. It has been used in over 3000 different products such as textiles, paper, ropes, wicks, stoves, filters, floor tiles, roofing shingles, clutch facings, water pipe, cements, fillers, felt, fireproof clothing, gaskets, battery boxes, clapboard, wallboard, fire doors, fire curtains, insulation, brake linings, etc.

Date of Government Version: 04/22/2016	Source: New Mexico Environment Department
Date Data Arrived at EDR: 04/29/2016	Telephone: 505-827-1494
Date Made Active in Reports: 06/20/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

COAL MINES 2: Coal Permit Boundaries

ESRI ArcView shapefile depicting New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 02/01/2014	Source: Mining & Minerals Division
Date Data Arrived at EDR: 03/20/2015	Telephone: 505-476-3417
Date Made Active in Reports: 04/13/2015	Last EDR Contact: 06/24/2016
Number of Days to Update: 24	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Varies

COAL MINES: Coal Mine Permits Database

New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 07/13/2012	Source: Bureau of Geology and Mineral Resources
Date Data Arrived at EDR: 12/17/2012	Telephone: 505-476-3402
Date Made Active in Reports: 01/11/2013	Last EDR Contact: 12/17/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/01/2013
	Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/15/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/05/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/27/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: New Mexico Environment Department
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A	Source: New Mexico Environment Department
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/16/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 199	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/03/2016	Telephone: 518-402-8651
Date Made Active in Reports: 09/09/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/14/2016	Telephone: N/A
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 06/13/2016
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Providers

Source: Office of Child Development

Telephone: 505-827-7946

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 505-248-6660

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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RED MESA #507 AKA NASCHITTI TRAD
HCR 330 HWY 666
NASCHITTI, NM 87325

Inquiry Number:
October 11, 2016

EDR Site Report™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
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Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. Page 5

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 RED MESA #507 AKA NASCHITTI TRADING POST HCR 330 HWY 666 NASCHITTI, NM 87325 EDR ID #1009393307
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	YES - p4
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

RED MESA #507 AKA NASCHITTI TRADING POST
HCR 330 HWY 666
NASCHITTI, NM 87325
EDR ID #1009393307

Indian UST:

Region: 9
Alternate Facility ID: NAV214
Facility Name2: RED MESA #
Tank ID: TANK 1
Tank Status: Permanently Out of Use
Status Date: -
Substance Description: Gasoline
Tribe: NAVAJO
Facility County: Not reported
Facility Telephone: (505) 327-5156
Overfill installed: FALSE
Spill installed: FALSE
Date installed: 1/1/1961
Federally Regulated Tank: True

Region: 9
Alternate Facility ID: NAV214
Facility Name2: RED MESA #
Tank ID: TANK 4
Tank Status: Currently in Use
Status Date: -
Substance Description: Gasoline
Tribe: NAVAJO
Facility County: Not reported
Facility Telephone: (505) 327-5156
Overfill installed: TRUE
Spill installed: TRUE
Date installed: 11/1/1994
Federally Regulated Tank: True

Region: 9
Alternate Facility ID: NAV214
Facility Name2: RED MESA #
Tank ID: TANK 3
Tank Status: Currently in Use
Status Date: -
Substance Description: Gasoline
Tribe: NAVAJO
Facility County: Not reported
Facility Telephone: (505) 327-5156
Overfill installed: TRUE
Spill installed: TRUE
Date installed: 11/1/1994
Federally Regulated Tank: True

Region: 9
Alternate Facility ID: NAV214
Facility Name2: RED MESA #
Tank ID: TANK 2
Tank Status: Permanently Out of Use
Status Date: -
Substance Description: Gasoline
Tribe: NAVAJO
Facility County: Not reported
Facility Telephone: (505) 327-5156
Overfill installed: FALSE
Spill installed: FALSE
Date installed: 1/1/1961
Federally Regulated Tank: True

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

INDIAN UST R1: Underground Storage Tanks on Indian Land

Source: EPA, Region 1

Telephone: 617-918-1313

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Database Release Frequency: Varies

Date of Last EDR Contact: 07/29/2016
Date of Next Scheduled Update: 11/07/2016

INDIAN UST R9: Underground Storage Tanks on Indian Land

Source: EPA Region 9

Telephone: 415-972-3368

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/27/2016
Date of Next Scheduled Update: 11/07/2016

NASCHITTI SCHOOL
558 ROAD 6100 NASCHITTI
NASCHITTI, NM 87325

Inquiry Number:
October 11, 2016

EDR Site Report™



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Name, source, update dates, contact phone number and description of each of the databases for this report.

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1
AREA	NASCHITTI SCHOOL 558 ROAD 6100 NASCHITTI NASCHITTI, NM 87325 EDR ID #1009393287
WASTE MANAGEMENT	
Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL	
Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA	
Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	YES - p4
POTENTIAL SUPERFUND LIABILITY	
Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

NASCHITTI SCHOOL
558 ROAD 6100 NASCHITTI
NASCHITTI, NM 87325
EDR ID #1009393287

Indian UST:

Region:	9
Alternate Facility ID:	NAV044
Facility Name2:	NASCHITTI
Tank ID:	TANK 1
Tank Status:	Permanently Out of Use
Status Date:	29-Apr-76
Substance Description:	Gasoline
Tribe:	NAVAJO
Facility County:	Not reported
Facility Telephone:	(505) 598-5834
Overfill installed:	FALSE
Spill installed:	FALSE
Date installed:	4/1/1971
Federally Regulated Tank:	True

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

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Source: EPA, Region 1
Telephone: 617-918-1313

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Date of Government Version: 10/20/2015
Database Release Frequency: Varies

Date of Last EDR Contact: 07/29/2016
Date of Next Scheduled Update: 11/07/2016

INDIAN UST R9: Underground Storage Tanks on Indian Land

Source: EPA Region 9
Telephone: 415-972-3368

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/27/2016
Date of Next Scheduled Update: 11/07/2016

NASCHITTI SCHOOL
558 ROAD 6100 NASCHITTI
NASCHITTI, NM 87325

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 NASCHITTI SCHOOL 558 ROAD 6100 NASCHITTI NASCHITTI, NM 87325 EDR ID #1010559358
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	YES - p4
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

NASCHITTI SCHOOL
558 ROAD 6100 NASCHITTI
NASCHITTI, NM 87325
EDR ID #1010559358

Indian LUST:	
Facility ID:	NAV044
Region:	9
Facility Tel:	(505) 598-5834
Tribe Name:	NAVAJO
LUST Status:	Closed
Last Event Date:	2008-01-17 00:00:00
Latitude:	36.064444000000002
Longitude:	-108.684444
Last Status:	NFA - Suspected Release

SECTION 3: DATABASES AND UPDATE DATES

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DATABASES FOUND IN THIS REPORT

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Source: EPA Region 1

Telephone: 617-918-1313

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015

Database Release Frequency: Varies

Date of Last EDR Contact: 07/29/2016

Date of Next Scheduled Update: 11/07/2016

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

Source: Environmental Protection Agency

Telephone: 415-972-3372

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016

Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/27/2016

Date of Next Scheduled Update: 11/07/2016

[SIGN-IN](#) [HELP](#)

[Wells](#) [Operator Data](#)

OCD Permitting

[Home](#) [Wells](#) [Well Details](#)

30-031-05301 PRE-ONGARD WELL #001 [30041]

General Well Information

Operator: [214263] PRE-ONGARD WELL OPERATOR
 Status: Plugged, Site Released
 Well Type: Gas Direction:
 Work Type: New Lease Type: Navajo
 Surface Location: G-29-19N-17W 1930 FNL 2030 FEL
 Lat/Long: 35.8512726,-108.8886783 NAD83
 GL Elevation: 6050 Sing/Mult Compl: Single
 Potash Waiver: False

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Proposed Formation and/or Notes

PURE OIL CO /COYOTE CANYON

Depths

Proposed: 0 Total Vertical Depth: 0
 Measured Vertical Depth: 0 Plugback Measured: 0

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Formation Tops

Formation	Top	Producing
-----------	-----	-----------

Event Dates

Initial APD Approval: 02/18/1954
 Most Recent APD Approval: 02/18/1954 Current APD Expiration: 02/18/1956
 APD Cancellation:
 APD Extension Approval:
 Spud:
 Approved Temporary Abandonment: TA Expiration:
 Shut In:
 Plug and Abandoned Intent Received:
 Well Plugged: 12/31/1901 PNR Expiration:
 Site Release: Last MIT/BHT:
 Last Inspection:

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
02/18/1954	[30041] PRE-ONGARD WELL	#001	[214263] PRE-ONGARD WELL OPERATOR	New	Gas	Plugged, Site Released		12/31/1901

Comments

SIGN-IN HELP

Wells Operator Data

Operator

Company: [214263] PRE-ONGARD WELL OPERATOR
 Address:
 Country:
 Main Phone:

Central Contact Person

Name: Title:
 Phone: Fax:
 Cell:
 E-Mail Address:

Pits

No Pits Found

Casing

No Casing Found

Well Completions

No Completions Found

Financial Assurance

Bond Id	Bond Type	Amount	Issuer	Cash/Surety	Issuer Bond Number	Bond Cancellation Date
2196	Blanket	1	SEABOARD SURETY CO	Surety	777	
8276	Blanket	50000	SEABOARD SURETY CO	Surety	777	01/01/1900

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and Spills

No Incidents Found

Please note that incidents that impact ground water are recorded along with "facilities" which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

[SIGN-IN](#) [HELP](#)

[Wells](#) [Operator Data](#)

Orders

No Orders Found

Production / Injection

Earliest Production In OCD Records: [Show All Production](#) [Export to Excel](#)

Time Frame	Production				Injection				
	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Days P/I	Water (BBLs)	Co2 (MCF)	Gas (MCF)	Other	Pressure
Grand Total:	0	0	0	0	0	0	0	0	N/A

Transporters

Transporter Product Most Recent for Property

Points of Disposition

ID Type Description Pool(s)

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 478-3200 | F: (505) 478-3220

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SEARCH RESULTS

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**TRANSWESTERN PIPELINE CO GALLUP
COMPRESSOR STATION**
 Handler ID: NMD000004572
 21 SPEEDWAY
 GALLUP, NM 87301

County Name: SAN JUAN

Latitude: 35.895291
 Longitude: -108.65005

Hazardous Waste Generator: Small
 Quantity Generator

Owner Name: TRANSWESTERN PIPELINE
 CO



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 *You can navigate within the map with your mouse.

BIENNIAL REPORT SUMMARY

REPORT YEAR	GENERATION (Tons)	MANAGEMENT (Tons)	WASTE RECEIVED (Tons)	WASTE SHIPPED (Tons)	INCINERATION (Tons)	DISPOSAL (Tons)	ACUTE GENERATION (Tons)
2007							

LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GEORGE A FRIEND					5052288398	Public
GEORGE FRIEND					5052288398	Permit

HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE
Small Quantity Generator

No PROCESS INFORMATION is available for the facility listed above.

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION

48621 PIPELINE TRANSPORTATION OF NATURAL GAS

LIST OF WASTE CODES AND DESCRIPTIONS

WASTE CODE	WASTE DESCRIPTION
D001	IGNITABLE WASTE
D004	ARSENIC
D008	LEAD

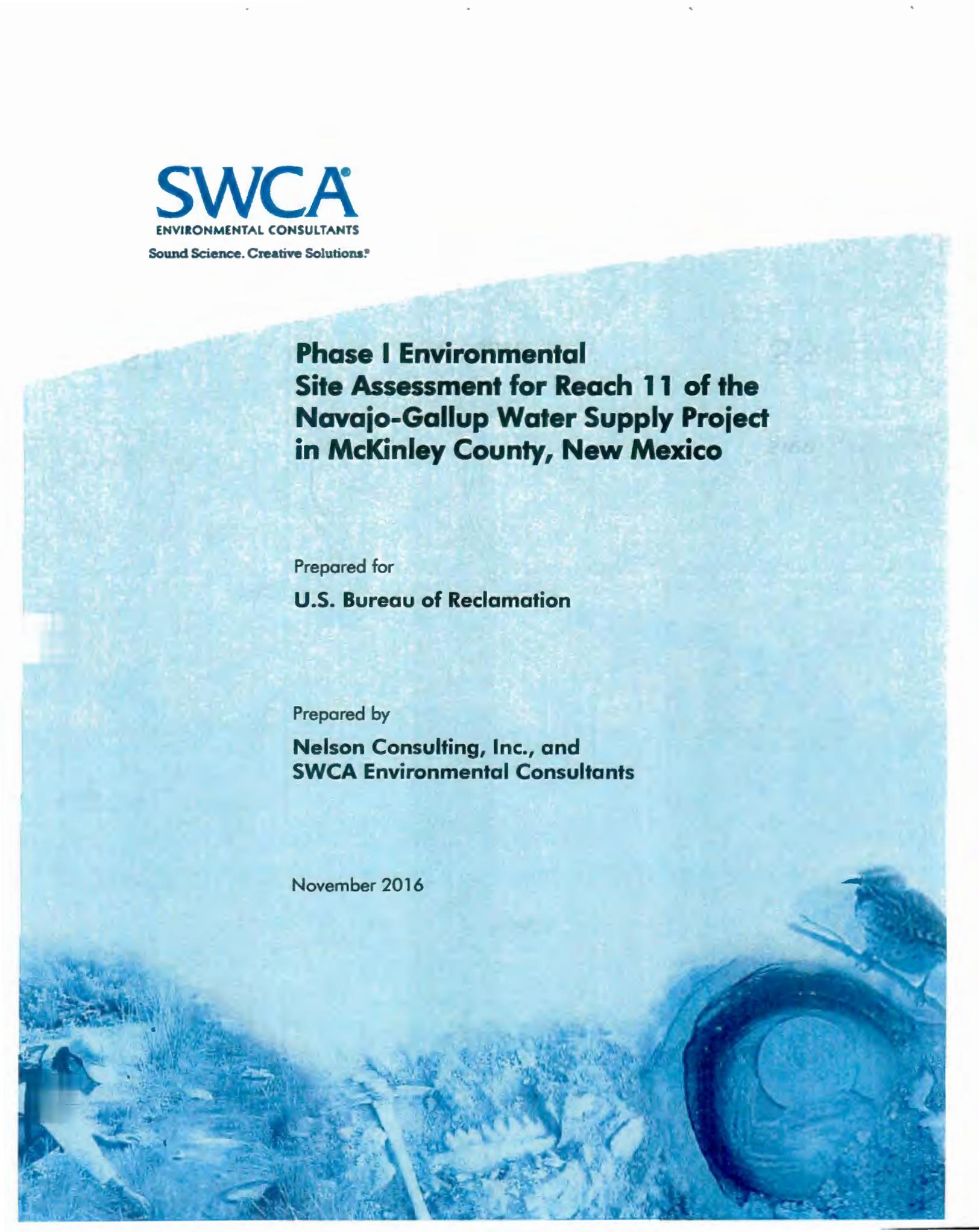
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Last updated on 10/18/2016

The logo for SWCA Environmental Consultants, featuring the letters "SWCA" in a large, bold, blue serif font with a registered trademark symbol.

ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

The background of the cover is a monochromatic blue-tinted photograph of a desert landscape. It shows a dirt road or path leading through sparse vegetation and rocky terrain. In the lower right corner, a large, circular, dark-colored object, possibly a tire or a large container, is visible. The overall scene is arid and open.

Prepared for
U.S. Bureau of Reclamation

Prepared by
**Nelson Consulting, Inc., and
SWCA Environmental Consultants**

November 2016

**PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR
REACH 11 OF THE NAVAJO-GALLUP WATER SUPPLY PROJECT
IN MCKINLEY COUNTY, NEW MEXICO**

Prepared for

U.S. Bureau of Reclamation

Western Colorado Area Office, Grand Junction
445 West Gunnison Avenue, Suite 221
Grand Junction, Colorado 81501

Attn: MRuthey Thompson (Contracting Officer's Representative)

On behalf of

U.S. Bureau of Reclamation
Upper Colorado Region
125 South State Street, Room 6107
Salt Lake City, Utah 84138

Attn: Lisa Laughbon (Contracting Officer)

Prepared by

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Contract No. R13PC40003
Task Order No. R16PD00988

November 2016

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EXECUTIVE SUMMARY

This executive summary presents the results of a Phase I Environmental Site Assessment (Phase I ESA) for Reach 11 of the Navajo-Gallup Water Supply Project (NGWSP). Reach 11 is a 4.28-mile corridor that is 150 feet wide (the “subject property”) and runs between Reach 10 to the northeast and Reach 12 to the south. It is located on the Navajo Nation in McKinley County, New Mexico, east and northeast of Twin Lakes.

The subject property is primarily vacant undeveloped desert land, with a parallel natural gas pipeline to the northwest. The portion of the corridor around Twin Lakes is undeveloped. The area around Twin Lakes includes residential uses and a waste lagoon. The purpose of this Phase I ESA is to meet due diligence requirements under the Comprehensive Environmental Response, Compensation, and Liability Act as part of environmental investigations, documentation, and land acquisitions prior to construction of the NGWSP in fiscal year 2017.

The client provided a shapefile of the boundaries of the subject property, and this description was taken as an accurate and true representation of the site. Independent verification of the subject property boundaries was not conducted by SWCA Environmental Consultants (SWCA) as part of this Phase I ESA.

The following list presents selected findings of this Phase I ESA:

- SWCA’s review of historical aerial photographs and topographic maps did not identify any past uses of the subject property other than as vacant, undeveloped land crossed by dirt roads and a paved road. The historical uses of the subject property are not considered to be recognized environmental conditions (RECs) for the subject property.
- Although most adjacent property was found to have the same history, a natural gas pipeline corridor runs parallel to most of the subject property, approximately 250 feet to the northwest. Between 2004 and 2012, a portion of the pipeline corridor eroded, exposing four pipelines. They remain exposed, but no evidence of their being compromised was observed in person. Because the pipeline is not known to have leaked or spilled, it is not considered to be a REC for the subject property.
- A waste lagoon, installed sometime prior to 1981, is present adjacent to the east of the subject property, northeast of Twin Lakes. Because it is a relatively modern lagoon municipal and not an outdated waste lagoon or industrial lagoon, and because it is not known to have leaked or caused contamination to local groundwater, it is not considered to be a REC for the subject property.
- SWCA’s interviews with personnel from the U.S. Bureau of Reclamation and Kinder Morgan, Inc., found that they had no knowledge of potential contamination on, adjacent to, or nearby the subject property. One person noted a nearby helium pipeline is exposed in places, and that the pipeline is wrapped or coated in asbestos-containing materials (ACM). However, this is not considered to be a REC because undisturbed ACM meets the definition of a de minimis condition, which does not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.
- One interviewee mentioned there are four aboveground storage tanks (ASTs) at a location approximately 0.5 mile west of the subject property in Twin Lakes. Because of their distance from the subject property, because these tanks were not listed in environmental databases, and because SWCA has no reason to suspect potential contamination from them, they are not considered to be RECs for the subject property.

- One interviewee mentioned a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or “Superfund”) site with a bad dip vat, located over 1 mile downgradient from the subject property. Because of its distance from the subject property, and because of its location downgradient from the subject property, the dip vat site is not considered to be a REC for the subject property.
- SWCA’s interview with personnel from the Navajo Nation Septic and Wastewater Program found that the large lagoons adjacent to the Reach 11 corridor, northeast of Twin Lake, are active lagoons, and there is no known contamination from them.
- SWCA’s interview with personnel from the Navajo Nation Water Quality & NPDES Program found that abandoned lagoons near Twin Lakes were abandoned decades ago. They served an old school there, which may have also had a silversmithing operation that could have resulted in heavy metals in the lagoons. Because of their presumed hydrological distance from the subject property, and because heavy metals generally lack mobility in the soil matrix, the abandoned lagoons are not considered to be RECs for the subject property.
- SWCA’s review of the Environmental Data Resources, Inc. (EDR), environmental database search generated on September 12, 2016, and supplementary searches of New Mexico Environment Department, New Mexico Bureau of Geology and Mineral Resources, and U.S. Environmental Protection Agency databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.
- The EDR report identified 29 sites or facilities that were listed in one or more regulatory agency databases but could not be mapped because of incomplete address or location information. SWCA reviewed each listing and found that none of the sites were potentially relevant to the subject property because of their location, status, and/or the type of database they were listed in. However, the following facility was noted in the list of unmapped sites in a recent GeoCheck environmental database report provided by the client:
 - The **Twin Lakes Lagoons**, located 0.35 miles from the subject property, were listed in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS, or “Superfund”) database as a no further remedial action planned (NFRAP) site (EPA ID No. NN0001092527). CERCLIS is now known as the Superfund Enterprise Management System (SEMS) database, and NFRAP sites are now known as archived sites. SEMS-Archive sites have no further interest under the Federal Superfund Program based on available information. Archived status indicates sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the National Priorities List (NPL), or the contamination was not serious enough to require federal Superfund action or NPL consideration. This facility did not qualify for the NPL and was archived in 1995. No other information could be found regarding this listing. Because of the NFRAP status, and because of its presumed hydrological distance from the subject property, and for the reasons discussed above, this listing is not considered to be a REC for the subject property.
- SWCA’s review of mapping from the New Mexico State Land Office and the New Mexico Oil Conservation Division did not identify any oil or gas wells on, adjacent to, or in the vicinity of the subject property.
- SWCA considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.

- SWCA's reconnaissance of the Reach 11 corridor on September 15, 2016, verified the above description of the subject property, and the following observations were made:
 - Except for the area around Twin Lakes, the vicinity of the subject property is primarily vacant, undeveloped desert land in all directions, except for a parallel natural gas pipeline 250 feet to the northwest. The area around Twin Lakes includes residential uses and an old waste lagoon.
 - A natural gas pipeline access and valve station was observed adjacent to the south of the south end of the corridor. No unusual odors, soil stains, or other evidence of potential contamination was observed in this area.
 - North of the valve station, several single-family homes are present on either side of the corridor, and a denser residential neighborhood exists farther north. Several more residences were observed west of the corridor, between the neighborhood and the waste lagoon. Most residences appeared to be in fair or good condition, and no stored chemicals or petroleum products were observed, except for propane tanks for heating. One home in the neighborhood had a 55-gallon drum in the back yard, and another had two drums. Because of their distances from the subject property, and because they appeared to be in good condition, the tanks and drums are not considered to be a REC for the subject property.
 - The two-chamber waste lagoon appeared to be completely dry and covered in healthy vegetation. This facility is described above.
 - An area roughly 1,000 feet northwest of the lagoons, and west of the corridor, included dumped trash such as bottles and cans, household items, televisions, windblown trash, and other such debris. Because no chemicals or petroleum products were observed, and no unusual odors, soil stains, or other evidence of potential contamination was observed in this area, the debris is not considered to be a REC.
 - Where the Reach 11 corridor crosses a wash 0.5 mile north of the lagoon, a large amount of trash and debris has been dumped west of the corridor. Observed materials appeared to be mostly household trash, wood and metal debris, drywall, an old mattress, and other such items. Because no chemicals or petroleum products were observed, and no unusual odors, soil stains, or other evidence of potential contamination was observed in this area, the debris is not considered to be a REC.
 - In Twin Lakes, east of U.S. Route 491, an abandoned building labeled TRADING POST was observed approximately 0.2 mile from the corridor. Such structures often used to sell gasoline, but no evidence of gas pumps or piping was observed. Because of its distance from the subject property, the abandoned building is not considered to be a REC.
 - No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

SWCA has completed a Phase I ESA of the subject property based on information obtained during the site investigations conducted on September 15, 2016, and the information obtained through the activities of this Phase I ESA, excluding the limitations.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of Reach 11 of the NGWSP, in McKinley County, New Mexico, the *property*. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (Phase I ESA) for Reach 11 of the Navajo-Gallup Water Supply Project (NGWSP). Reach 11 is a 4.28-mile corridor that is 150 feet wide (the “subject property”) and runs between Reach 10 to the northeast and Reach 12 to the south. It is located on the Navajo Nation in McKinley County, New Mexico, east and northeast of Twin Lakes. Nelson Consulting, Inc., and SWCA Environmental Consultants (SWCA) completed this Phase I ESA for the U.S. Bureau of Reclamation, in accordance with the August 19, 2016, proposed scope of work. A copy of the scope of work is included in Appendix A.

1.1 Purpose

The purpose of this Phase I ESA is to meet due diligence requirements under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as part of environmental investigations, documentation, and land acquisitions prior to construction of the NGWSP in fiscal year 2017. The NGWSP is a major infrastructure project that, once constructed, will convey a reliable municipal and industrial water supply from the San Juan River to the eastern section of the Navajo Nation, the southwestern portion of the Jicarilla Apache Nation, and the city of Gallup, New Mexico, by means of about 280 miles of pipeline, several pumping plants, and two water treatment plants. The project was authorized for construction by the Omnibus Public Lands Management Act of 2009 (Public Law 111-11) on March 30, 2009, as a major component of the Navajo Nation San Juan River Basin Water Rights Settlement in New Mexico (U.S. Bureau of Reclamation 2016).

The Phase I ESA was completed in general accordance with the standards described in the American Society for Testing and Materials (ASTM) Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM 2013) and with the guidance provided in 40 Code of Federal Regulations (CFR) 312, 33 CFR 137, CERCLA, the Oil Pollution Act of 1990, and other applicable guidance, ensuring that the report is consistent with accepted professional standards. Deletions or deviations from ASTM Standard E 1527-13 are documented in this report.

The goal of the processes established by ASTM Standard E 1527-13 is to assess the property, to the extent practical, for the potential presence of recognized environmental conditions (RECs), defined in the ASTM standard as “the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*.” De minimis conditions, which generally do not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies, are not RECs.

This Phase I ESA did not include activities such as inspections or sampling for the presence of asbestos-containing materials, radon, other radioactive substances, vapor intrusion, lead-based paint, non-hazardous wastes and materials, mold, or biological and medical wastes. No soil, air, or water samples were collected for this Phase I ESA.

1.2 Scope of Work

To achieve the objective referenced above, SWCA completed the following tasks. A copy of the scope of work is included in Appendix A.

- Reviewed intermittent topographic maps and/or aerial photographs.

- Surveyed relevant documents in order to assess the subject property's physiography, including a review of the local hydrogeology and geology of the surrounding area.
- Interviewed persons knowledgeable about the history of the property and vicinity.
- Reviewed applicable federal and state regulatory databases.
- Visually observed the subject property by walking on and driving around the subject property and visually observed the surrounding properties from the subject property perimeter.

1.3 Limitations

SWCA warrants that qualified professionals in conformance with ethical business practices and industry standards prepared this report. Credentials of the individuals involved in preparing this report are included in Appendix B.

Some standard historical sources are not readily available and thus were not used to prepare this Phase I ESA. Based on our professional experience with similar historically undeveloped rural properties, Sanborn fire insurance maps were assumed to not be available for the subject property. A city directory search was not conducted for the subject property because it is thought to never have been developed and does not have a street address.

Because of the size of the subject property and because much of the area is vacant land with no history of development, SWCA personnel used aerial photography and topographic maps to identify specific areas of the subject property that would require in-person observation. This provided information sufficient to satisfy the objectives of ASTM Standard E 1527-13. According to Section 4.5.2 of the standard,

All appropriate inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information. (ASTM 2013:10)

SWCA was not provided with recorded land-title records or judicial records of environmental liens and activity and use limitations (AULs). Because of the lack of available aerial photographs and U.S. Geological Survey (USGS) topographic maps, the suggested 5-year interval between photographs and topographic dates could not be followed for all photographs and maps reviewed. However, Sections 8.3 to 8.3.4 of ASTM Standard E 1527-13 allow for other historical sources to be relied on where standard historical sources, such as historical aerial photographs and historical topographic maps, are not reasonably ascertainable and where past experience of the Environmental Professional indicates that they are not likely to produce additional useful information.¹ Although not all standard historical sources dating back to 1940 were obtained for the subject property, historical topographic maps dating back to 1886 and interviews confirmed that the subject property was undeveloped in the past, except for some dirt roads.

¹ Section 8.3.2 of ASTM Standard E 1527-13 states that "all obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary and both reasonably ascertainable and likely to be useful" (ASTM 2013:15). The ASTM standard also states that standard historical sources may be excluded if 1) the sources are not reasonably ascertainable, or 2) past experience indicates that the sources are not likely to be sufficiently useful in terms of satisfying the objectives. Based on our professional experience with many similar historically undeveloped rural properties, historical aerial photography for the subject property is not likely to be useful in terms of satisfying the objectives.

At that point, historical research was deemed to be complete because the objectives in Sections 8.3.1 through 8.3.2.2 of ASTM Standard E 1527-13 were achieved: 1) develop a history of the previous uses of the property and surrounding area sufficient to identify the likelihood of past uses' having led to recognized environmental conditions in connection with the property; 2) identify all obvious uses of the property from the present, back to the property's first developed use, or back to 1940, whichever is earlier; and 3) identify the general type of use.

According to Section 8.3.2.3 of the standard, "Data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met" (ASTM 2013:16). While the above represents a data gap, it does not represent a data failure. Because supplemental data sources provided sufficient information, this gap in the data is not thought to have affected SWCA's ability to identify RECs on the subject property. SWCA's findings and conclusions within this assessment do not take into consideration the limitations identified in this report.

The information contained in this report relates only to the subject property and should not be extrapolated or construed to apply to any other site. The description of the subject property as provided herein represents the conditions of the subject property as it existed on the date of the site reconnaissance. The contents of this report are valid as of the date shown on the report cover. The information presented in this report is intended for the exclusive use of the U.S. Bureau of Reclamation and its affiliates, underwriters, and lenders. Reliance of any other parties on the information presented herein is the sole responsibility of said parties.

2.0 PROPERTY DESCRIPTION

The subject property is Reach 11 of the NGWSP. Reach 11 is a 4.28-mile corridor that is 150 feet wide and runs between Reach 10 to the northeast and Reach 11 to the south. It is tribal land located on the Navajo Nation in McKinley County, New Mexico, east and northeast of Twin Lakes. It runs through portions of Sections 3, 4, 9, 16, and 17, Township 17 North, Range 18 West; and Section 34, Township 18 North, Range 18 West.

Reach 11 begins just north of Navajo Service Route 9, approximately 2 miles east of U.S. Route 491 (U.S. 491) on Navajo Service Route 9. Reach 11 parallels the El Paso Natural Gas/Kinder Morgan underground pipeline route in a south-southwest direction, until the Twin Lakes lagoons and just northeast of Twin Lakes Elementary School. It then turns southeast and runs between the lagoons and Gossip Hill, after which it runs south until after crossing Bass Lake Road. Reach 11 then turns to a west path to run along the south side of a residential area, until it resumes a route along the pipeline. Reach 11 ends on the east side of U.S. 491, approximately 0.7 mile north of Watson Road.

The subject property is primarily vacant desert land, crossed by a few two-track roads, dirt roads, and one paved road. Adjacent property is similarly undeveloped and vacant in the northeastern part of the reach, except for the pipeline it parallels. Adjacent property in the southwestern part of the reach includes waste treatment lagoons, residential uses, and vacant land. The subject property is depicted in Figures 1a and 1b.

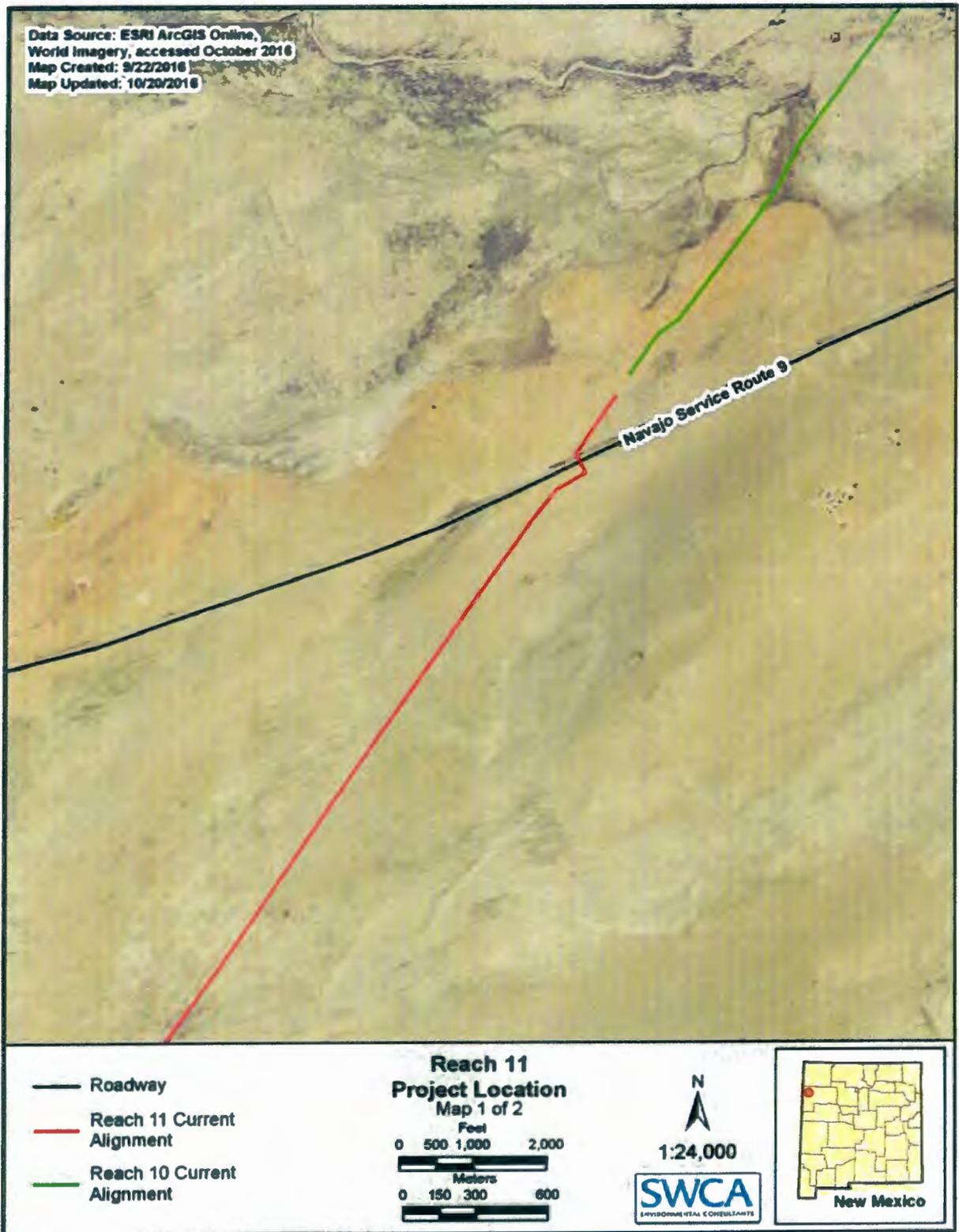


Figure 1a. Aerial view of subject property.



Figure 1b. Aerial view of subject property.

3.0 PHYSICAL SETTING ANALYSIS

The following sections present physical characteristics of the subject property, as obtained from available natural history information sources.

3.1 Topography

The USGS Chuska Lake and Big Rock Hill, New Mexico, 7.5-minute quadrangle and Gallup, New Mexico, 1 × 2 series topographic map indicate that the subject property lies within the Tohatchi Flats, an alluvial/valley fill slope between the Chuska Mountains and Defiance Plateau to the northwest, and Big Rock Hill to the southeast (Figures 2a and 2b). The subject property appears to generally slope toward the northeast and east. Several washes are depicted in the vicinity, which flow to the northeast and terminate in the alluvium/valley fill. The greater vicinity drains centrally toward Mexican Wash and other parallel washes that flow northeast. On a larger scale, the Tohatchi Flats are within the upper reaches of the Chaco River basin, which drains to the north. The subject property ranges in elevation from approximately 6,220 feet above mean sea level (amsl) in the northeast to 6,380 feet amsl in the southwest.

3.2 Soils

A review of soils data from the Natural Resources Conservation Service (NRCS) (2016a) indicates that the subject property crosses several types of soil (Appendix C). In general, soils in the area are very deep, well-drained, and formed in alluvium and/or eolian materials. The soil series crossed by the subject property are described in Table 1 below.

Table 1. Soil Types on the Subject Property

Soil Series Name	Description
Redlands	The Redlands series consists of very deep, well-drained soils that formed in eolian material and alluvium derived from sandstone and shale. Redlands soils are on fan remnants, mesas, and structural benches. Low surface runoff; moderate permeability.
Shiprock	The Shiprock series consists of very deep, well-drained and somewhat excessively drained, moderately rapidly permeable soils that formed in eolian material and alluvium, fan alluvium, and slope alluvium derived from sandstone and shale on summits of mesas, and plateaus, cuestas, fan remnants, and fan terraces on valley sides and side slopes of hills. Very low to low runoff and moderately rapid permeability.
Jeddito	Very deep, somewhat excessively drained stratified soils that formed in stream alluvium. Located on stream terraces. Slow runoff, and slow permeability in thin lenses of fine material.
Notal	Very deep, well-drained, sodium-affected soils that formed in alluvium, stream alluvium, and fan alluvium derived from shale, siltstone, and sandstone. Found on low stream terraces on valley floors and alluvial fans on valley sides, fan terraces, and small depressions of undulating plateaus. High runoff and very slow permeability.
Jocity	Very deep, well-drained soils formed in stream alluvium. Located on floodplains and alluvial fans. Slow to medium runoff and moderately slow to moderate permeability.
Betonne	Very deep, well-drained, moderately rapidly permeable soils that formed in alluvium and eolian sediments derived from sandstone on fan terraces, mesas, cuestas, valley sides, hills, ridges, and plateaus. Very low to low runoff and moderately rapid permeability.
Bond	Very shallow and shallow, well-drained, moderately permeable soils that formed in alluvium, slope alluvium, and eolian deposits derived from sandstone on cuestas, mesas, hills, and ridges. Medium runoff and moderately or moderately slow permeable.

Table 1. Soil Types on the Subject Property (Continued)

Soil Series Name	Description
Skyvillage	Very shallow to shallow, well-drained, moderate and moderately rapidly permeable soils that formed in eolian material, residuum, and slope alluvium derived from sandstone. Found on bedrock controlled landscapes of mesas, cuernas, breaks, structural benches, hills, and narrow ridges. Medium runoff and moderate and moderately rapid permeability.
Blancot	Very deep, well-drained soils that formed in alluvium and fan alluvium from shale and sandstone. Located on valley sides and ridges. Medium runoff and moderately slow or moderate permeability.
Chafin	Very deep, well-drained soils derived from sandstone and shale. Found on fan terraces on valley sides and on summits of mesas. Permeability is moderately slow and slow. Runoff is medium to high.

Source: NRCS (2016b).

3.3 Geology and Hydrogeology

Several washes in the vicinity flow to the northeast and terminate in the alluvium/valley fill. The greater vicinity drains centrally toward Mexican Wash and other parallel washes that flow northeast. On a larger scale, the Tohatchi Flats are within the upper reaches of the Chaco River basin, which drains to the north. It is assumed that groundwater follows this general path. The Chaco River leads north to the San Juan River near Shiprock, which flows west and joins the Colorado River at Lake Powell.

The San Juan River Basin is a geologic structural basin in the Four Corners region that covers around 4,600 square miles, encompassing much of northwestern New Mexico, southwestern Colorado, and parts of Arizona and Utah. The region is arid, with rugged topography of plains and valleys interspersed by buttes, canyons, and mesas. Its most striking features include Chaco Canyon and Chacra Mesa (New Mexico Water Quality Control Commission 2004). The San Juan structural basin is a large downwarp of sedimentary rocks of mostly Mesozoic age. As a geologic region, the San Juan Basin is noted for its large deposits of coal, uranium, and natural gas (U.S. Forest Service 1994).

The subject property is also located in the Colorado Plateau physiographic region, which extends into the northwestern section of the state of New Mexico and forms the major portion of the San Juan River Basin. The area of the subject property is generally characterized by horizontal sedimentary rocks carved into a gentle relief of broad mesas and valleys, buttes, plateaus, and canyons. The area is termed the Navajo and Canyon Lands section of the Colorado Plateau province. Geomorphic processes active in the Navajo Canyonlands are deep canyon formations resulting from plateau dissection. Volcanic mountains exist, but block-fault structural mountain ranges do not. The lithology and stratigraphy of the Navajo Canyonlands includes Cretaceous, Jurassic, and Triassic sedimentary rocks, with some Quaternary and upper Tertiary sedimentary deposits and valley fills (U.S. Forest Service 1994).

USGS online spatial mineral resources data indicate that the surface geology of subject property is mapped as the Menefee Formation (Phanerozoic | Mesozoic | Cretaceous age). This formation is coal-bearing mudstone, shale, and sandstone. The primary rock type is fine-grained mixed clastic, and other rock types are coal and limestone (USGS 2016a).

Point of Diversion data from the New Mexico Office of the State Engineer (2014) did not identify any water wells within 1 mile of the subject property. Depth to water data for the area were not readily available. Topographic mapping does not depict wells or windmills in the vicinity.

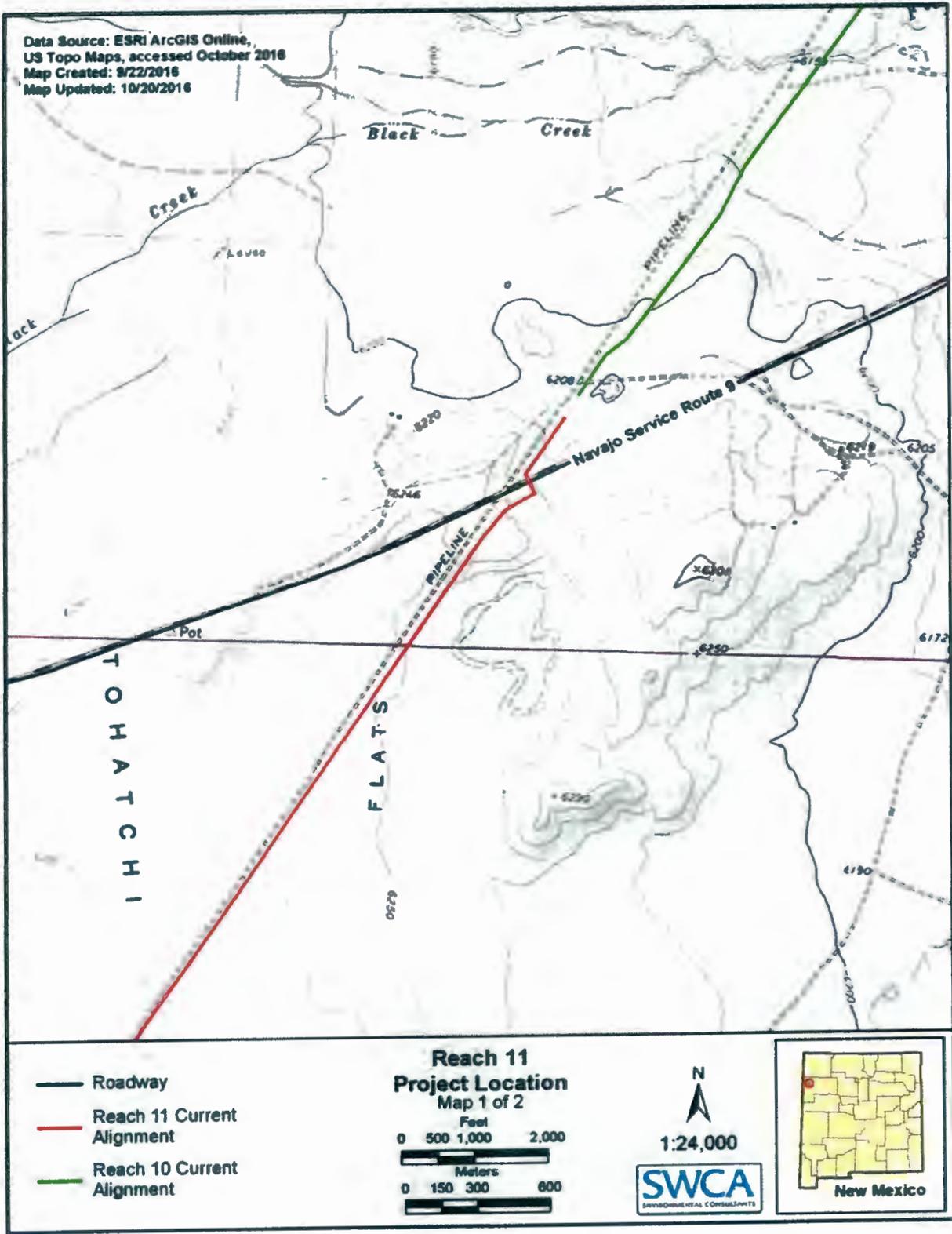


Figure 2a. USGS quadrangle.

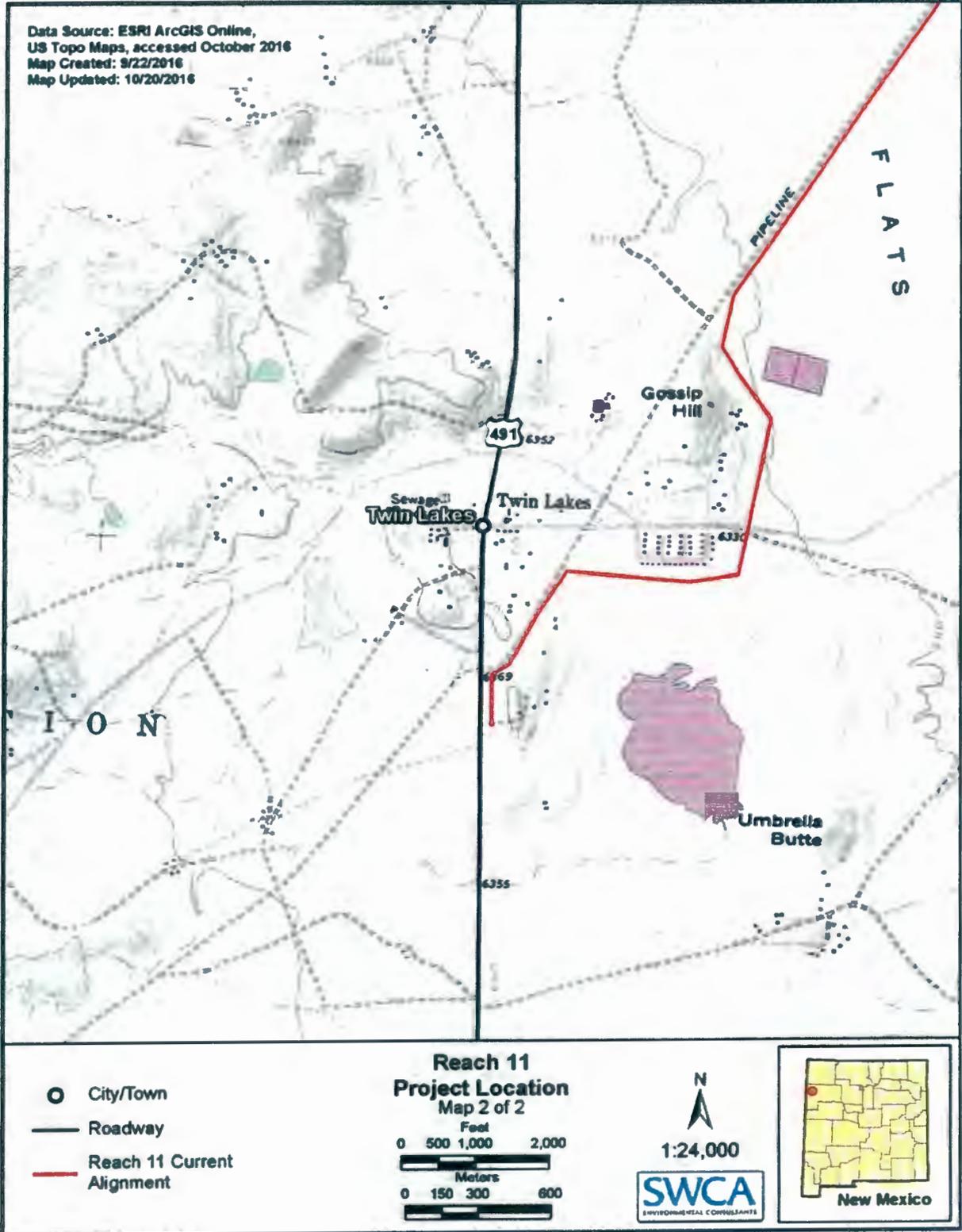


Figure 2b. USGS quadrangle.

4.0 HISTORICAL PROPERTY USES AND RECORDS REVIEW

The history of the subject property and adjacent properties was reviewed in accordance with the applicable ASTM standards, except as noted in Section 1.3. Historical uses of the subject property were determined based on a review of readily available, reasonably ascertainable historical data, including historical topographic maps and aerial photographs. Based on our professional experience with similar historically undeveloped rural properties, Sanborn fire insurance maps were assumed to not be available for the subject property. A city directory search was not conducted for the subject property because it is thought to never have been developed and does not have a street address.

4.1 Historical Map Review

SWCA reviewed USGS topographic maps of the area dated between 1886 and 1981. SWCA obtained the maps from the USGS National Geologic Map Database (USGS 2016b). A summary of SWCA's evaluation of the reviewed topographic maps is provided in Table 2.

Table 2. Summary of Historical Topographic Map Interpretation

Date of Topographic Map	Observations
1886, 1892, 1898, 1916, 1937 Wingate, New Mexico 1:250,000	During this period, the subject property and vicinity is depicted as vacant and undeveloped ranching land with a few unimproved interconnected trails. No roads or structures are depicted in the vicinity. A cattle tanks and dirt roads are present in the vicinity.
1958, 1959, 1962 Gallup, New Mexico 1:250,000	The subject property remained mostly undeveloped in 1958, but by then, the parallel pipeline was present to the northwest, Navajo Service Route 9 was present as a dirt road, and U.S. 491 was present (then named U.S. 666). The area southeast of the pipeline's intersection with Navajo Service Route 9 is labeled HUTS, and a structure is depicted 1,000 feet mile west of the pipeline in that area. Twin Lakes is noted in the map, and a structure is depicted adjacent to the east of the Reach 11 corridor, north of where Bass Lake Road currently exists. More huts are depicted south of the southern terminus of the corridor, east of U.S. 666.
1967 Big Rock Hill, 1967 Twin Lakes, and 1970 Chuska Lake, New Mexico 1:24,000	These maps depict Navajo Service Route 9 as an improved road, and a dirt road is depicted along the pipeline corridor. Other than the area near Twin Lakes, the subject property and vicinity are mostly vacant. In the Twin Lakes area, several dirt roads were present, including Bass Lake Road. A few structures, likely residences, were present west of the corridor. Sewage disposal ponds are depicted 600 feet west of U.S. 666, approximately 2,000 feet from the subject property.
1981 Gallup, New Mexico 1:100,000	No significant changes are evident on or near the subject property in this map, except that the treatment ponds are depicted adjacent to the northeast of the corridor in their current location.

4.2 Historical Aerial Photograph Review

SWCA also reviewed historical aerial photographs of the subject property spanning from 1997 to 2015 (Google Earth 2016), subject to the discussion in Section 1.3 above.

In the 1997 photograph, the majority of the subject property is vacant undeveloped land, crossed by Navajo Service Route 9, with a few fences and dirt roads in the vicinity and a pipeline corridor adjacent to the west. The treatment lagoons were present northeast of Twin Lakes, and land southeast and south of Gossip Hill consists of residential developments. A neighborhood of single-family homes was present south of Bass Lake Road, and there was light residential development present in the vicinity from the neighborhood to the southern terminus of the corridor.

In the 1997 photograph, a drainage way crosses the corridor approximately 0.4 mile north of the treatment lagoons. By 2004, that drainage way appears to have been abandoned, and a new channel has been formed 600 feet to the northwest. This wash appears to erode over time, such that by 2012 a pipeline is

exposed west of the Reach 11 corridor. By 2014, four pipelines are visible, the closest of which appears to be approximately 80 feet from the centerline (5 feet from the edge) of the Reach 11 corridor.

4.3 Adjacent Properties

Most adjacent properties have historically been undeveloped, except for the gas pipeline adjacent to the west, which was installed sometime prior to 1958, and a few cattle tanks and dirt roads. Adjacent property in the southwestern part of the reach historically included residential uses, vacant land, and waste treatment lagoons installed prior to 1981. Photographs of the subject property and surrounding areas are provided in Appendix D.

4.4 Previous Phase I ESA Reports

The client provided SWCA with a January 14, 2016, environmental database report prepared by GeoSearch. Data from the GeoSearch report have been integrated into Section 5.1 below. SWCA was not provided with and is not aware of previous Phase I ESA reports or other relevant environmental reports for review.

4.5 Interviews

SWCA interviewed Ryan Gladden, of the U.S. Bureau of Reclamation, on October 3, 2016. He noted there are some gas wells in the vicinity, but he was not aware of any other gas or oil exploration along Reach 11. He also said that there are several dumping sites along Reach 11, particularly near the large wash. However, he did not look for or notice any hazardous materials among the trash.

SWCA interviewed Ms. MRutheyi Thompson, of the U.S. Bureau of Reclamation, on October 6, 2016. She stated that she is concerned about a few sites along the proposed Reach 11 alignment. The lagoon near Twin Lakes is one of her bigger concerns. She mentioned that there are four aboveground storage tanks (ASTs), likely empty, at a location approximately 0.5 mile west of the subject property, across Bass Lake Road in Twin Lakes. These tanks were not listed in environmental databases. She described Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or "Superfund") with a bad dip vat east of the Reach along Bass Lake Road, but that site is over 1 mile downgradient from the subject property.

SWCA spoke with Larry Macias, an Operations Manager for KMI, on November 9, 2016. He was familiar with the history of the local pipelines and infrastructure. He stated that he was not aware of any leaks, spills, or known contamination related to any of their pipelines in the area. He noted that if pipelines are exposed where they cross washes, it should not be a concern because they are solid pipelines and the soil is sandy; there are no moving rocks or boulders to potentially damage the pipelines.

SWCA contacted the Navajo Nation Septic and Wastewater Program, and spoke about the lagoons around Twin Lakes. The person we spoke with said the large lagoons adjacent to the Reach 11 corridor, northeast of Twin Lakes, are active lagoons, and there is no known contamination from them. We determined with him that the old abandoned lagoons are located 500 feet west of Route 491, 0.35 miles from the subject property.

SWCA also spoke with Patrick Antonio, of the Navajo Nation Water Quality & NPDES Program on November 18, 2016. He discussed several of the reaches with SWCA and was not aware of any significant environmental concerns related to contamination along the Reach 11 corridor. He verified the likely location of the abandoned lagoons, and said they were abandoned decades ago. According to him,

they served an old school there, and the school may have also had a silversmithing operation that could have resulted in heavy metals in the lagoon.

SWCA prepared a questionnaire regarding the subject property, adapted from the interview worksheet in *Environmental Compliance Memorandum No. ECM 10-2, Pre-Acquisition Environmental Assessment Guidance for Federal Land Transactions* (U.S. Department of the Interior 2010). The questionnaire was completed by Ryan Gladden, of the U.S. Bureau of Reclamation, on September 26, 2016. He indicated that Kinder Morgan's pipelines are high-pressure natural gas lines, and he was uncertain whether they deal with petroleum products within the reaches of the NGWSP. He thought that some of the pipelines may be 40 or 50 years old. He did not know of any spills, leaks, or cleanups of hazardous substances, petroleum products, or other potential environmental problems along the reaches or on adjacent or nearby properties. He had not seen any evidence of livestock dip vats, and did not know whether any ever existed within any reaches. He did not know of any fill material that had been brought onto the subject property that originated from a contaminated site or that was of an unknown origin. He was not aware of any environmental liens or environmental activity and land use limitations against the subject property.

A Phase I ESA User Questionnaire for the subject property was completed by Gary Vance, of the U.S. Bureau of Reclamation, on October 3, 2016. The questionnaire answers applied to Reaches 9, 10, 11, and 12.2 of the NGWSP. He stated that a search of recorded land-title records had not been completed for these reaches. He noted that he was not aware of the past uses of the reaches or any spills, releases, or environmental cleanups that had taken place on these reaches. He did note that a helium pipeline is exposed in places between Gallup and Shiprock, New Mexico, and that the pipeline is wrapped or coated in asbestos-containing materials (ACM). Documentation of the above correspondence is provided in Appendix E.

5.0 ENVIRONMENTAL REGULATORY REVIEW

SWCA conducted an environmental regulatory review to establish the environmental history of the subject property and surrounding area to ascertain whether hazardous waste or hazardous material management, handling, treatment, or disposal activities have occurred on or near the subject property.

5.1 Federal and State Environmental Records

An environmental database report generated by Environmental Data Resources, Inc. (EDR), on September 12, 2016, was used to access environmental records for a 1-mile buffer around the subject property (Appendix F). The databases searched by EDR include those specified by ASTM Standard E 1527-13, as well as several additional federal and state databases and databases proprietary to EDR. ASTM's standard search distances were followed, as detailed in Table 3. EDR updates its records in accordance with ASTM Standard E 1527-13 guidelines. Additional listed facilities that EDR has not identified may exist within the 1-mile radius. EDR's environmental database report did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.

Table 3. Approximate Minimum Search Distances

Record Sources	Approximate Minimum Search Distance (miles)
Federal Databases	
National Priorities List (NPL)	1.0
Delisted NPL	0.5
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) / CERCLIS No Further Remedial Action Planned (NFRAP) sites	0.5
Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) facilities	1.0
RCRA non-CORRACTS Treatment Storage and Disposal facilities	0.5
RCRA generators list	Property and adjoining
Institutional control/engineering control registries	Property only
Emergency Response Notification System (ERNS)	Property only
State and Tribal Databases	
NPL	1.0
CERCLIS	0.5
Landfill and/or solid waste disposal site lists	0.5
Leaking storage tank lists	0.5
Registered storage tank lists	Property and adjoining
Institutional control / engineering control registries	Property only
Voluntary cleanup sites	0.5
State and tribal Brownfield sites	0.5

Source: ASTM (2013).

SWCA supplemented the EDR database search with reviews of:

- An environmental database report completed by GeoSearch (2016) on January 14, 2016, that was provided by the client;
- the New Mexico Environment Department's (NMED's) Ground Water Quality Bureau (GWQB) Mapping Application, EGIS Mapping Application, Petroleum Storage Tank Bureau GoNM Mapping Application, and Source Water Protection Atlas (SWPA) Mapping Application (NMED 2016a, 2016b, 2016c, 2016d);
- the New Mexico Bureau of Geology and Mineral Resources (2016) interactive GIS mapping application; and
- the U.S. Environmental Protection Agency's (EPA's) Envirofacts database (EPA 2016a), to search additional federal databases.

The NMED's GWQB and EGIS applications include data for abatement sites, brownfields, hazardous waste facilities, underground storage tank (UST) and leaking UST (LUST) facilities, landfills and solid-waste facilities, and voluntary remediation sites. The GoNM application includes aboveground storage tank, UST, and LUST facilities; and data from the EPA's Toxics Release Inventory. The SWPA application includes much of the above, plus petroleum pools, uranium and asbestos deposits and mines, and other data layers. The EPA Envirofacts database includes data from the Resource Conservation and Recovery Act Information (RCRAInfo) database, which collects information for all generators, transporters, treaters, storers, and disposers of hazardous waste. SWCA's search of these supplemental

databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property. A copy of the EDR report and supplemental database records is included in Appendix F.

In addition to the sites/facilities listed in the EDR database report, EDR provides a list of sites or facilities that are listed in one or more regulatory agency databases but could not be mapped because of incomplete address or location information. The EDR report identified 29 such sites and SWCA reviewed each listing. SWCA determined that none of the sites are potentially relevant to the subject property because of their location, status, and/or the type of database they were listed in. However, the following facility was noted in the GeoSearch (2016) list of unmapped sites:

- **The Twin Lakes Lagoons** were listed in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS, or “Superfund”) database as a no further remedial action planned (NFRAP) site (EPA ID No. NN0001092527). CERCLIS is now known as the Superfund Enterprise Management System (SEMS) database, and NFRAP sites are now known as archived sites. SEMS-Archive sites have no further interest under the Federal Superfund Program based on available information. Archived status indicates sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the National Priorities List (NPL), or the contamination was not serious enough to require federal Superfund action or NPL consideration. This facility did not qualify for the NPL and was archived in 1995. No other information could be found regarding this listing except as discussed in Section 4.5 above. Results were not found in searches of SEMS, Toxmap, Navajo Nation Superfund Program, or even in Google searches (EPA 2016b and 2016c; Google 2016; National Institutes of Health 2016; Navajo Nation Environmental Protection Agency [EPA] 2016).

SWCA also considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.

5.2 Oil and Gas Wells

SWCA reviewed mapping from the New Mexico State Land Office (2016) and the New Mexico Oil Conservation Division (2016) to identify oil and gas wells on and near the subject property. These sources did not identify any oil and gas wells on or in the vicinity of the subject property.

6.0 PROPERTY RECONNAISSANCE

Noel Tamboer of Nelson Consulting, Inc., and Eilene Lyon of SWCA completed the Phase I ESA site investigation for the subject property on September 15, 2016. The subject property was observed by driving to and walking on the subject property, subject to the discussion in Section 1.3 above. They met with Mr. Ryan Gladden, of the U.S. Bureau of Reclamation, prior to observing the subject property. Details from that conversation have been integrated into the description below, and photographs taken during the property reconnaissance are included in Appendix D.

6.1 Property Inspection

Except for the area around Twin Lakes, the vicinity of the subject property is primarily vacant, undeveloped desert land in all directions, except for a parallel natural gas pipeline 250 feet to the northwest. The area around Twin Lakes includes residential uses and a waste lagoon. Upon arrival at the southernmost end of Reach 11, conditions were partly sunny and breezy, dry, and approximately

75 degrees Fahrenheit. Reach 11 was observed from south to north, and the subject property and adjacent property are further described below. All distances are approximate.

A natural gas pipeline access and valve station was observed adjacent to the south of the south end of the corridor. No unusual odors, soil stains, or other evidence of potential contamination was observed in this area. North of here, several single-family homes are present on either side of the corridor, and a denser residential neighborhood exists farther north. Several more residences were observed west of the corridor, between the neighborhood and a waste lagoon. Most residences appeared to be in fair or good condition, and no stored chemicals or petroleum products were observed, except for propane tanks for heating. One home in the neighborhood had a 55-gallon drum in the back yard, and another had two drums. However, they were all upright and appeared to be in good condition.

The waste lagoon has two chambers and was observed from outside a fence with a sign warning of contaminated water. The lagoon appeared to be completely dry and covered in healthy vegetation.

An area roughly 1,000 feet northwest of the lagoons, and west of the corridor, included dumped trash such as bottles and cans, household items, televisions, windblown trash, and other such debris. No chemicals or petroleum products were observed, and no unusual odors, soil stains, or other evidence of potential contamination was observed in this area.

The Reach 11 corridor crosses a wash 0.5 mile north of the lagoon. In the pipeline corridor to the west, four pipelines have been exposed by erosion in the wash. Just south of the wash here, and within the pipeline corridor, a large amount of trash and debris has been dumped. Observed materials appeared to be mostly household trash, wood and metal debris, drywall, an old mattress, and other such items. No chemicals or petroleum products were observed, and no unusual odors, soil stains, or other evidence of potential contamination was observed in this area. The remainder of the corridor was undeveloped, vacant land.

In Twin Lakes, adjacent to the east of U.S. 491, is an abandoned building with TRADING POST signage. Many such structures used to sell gasoline, but no evidence of gas pumps or piping was observed. This building is approximately 0.2 mile from the corridor.

No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

7.0 PHASE I ESA FINDINGS

The following list presents selected findings of this Phase I ESA:

- SWCA's review of historical aerial photographs and topographic maps did not identify any past uses of the subject property other than as vacant, undeveloped land crossed by dirt roads and a paved road. The historical uses of the subject property are not considered to be RECs for the subject property.
- Although most adjacent property was found to have the same history, a natural gas pipeline corridor runs parallel to most of the subject property, approximately 250 feet to the northwest. Between 2004 and 2012, a portion of the pipeline corridor eroded, exposing four pipelines. They remain exposed, but no evidence of their being compromised was observed in person. Because the pipeline is not known to have leaked or spilled, it is not considered to be a REC for the subject property.

- A waste lagoon, installed sometime prior to 1981, is present adjacent to the east of the subject property, northeast of Twin Lakes. Because it is a relatively modern lagoon municipal and not an outdated waste lagoon or industrial lagoon, and because it is not known to have leaked or caused contamination to local groundwater, it is not considered to be a REC for the subject property.
- SWCA's interviews with personnel from the U.S. Bureau of Reclamation and KMI found that they had no knowledge of potential contamination on, adjacent to, or nearby the subject property. One person noted a nearby helium pipeline is exposed in places, and that the pipeline is wrapped or coated in ACM. However, this is not considered to be a REC because undisturbed ACM meets the definition of a de minimis condition, which does not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.
- One interviewee mentioned there are four ASTs at a location approximately 0.5 mile west of the subject property in Twin Lakes. Because of their distance from the subject property, because these tanks were not listed in environmental databases, and because SWCA has no reason to suspect potential contamination from them, they are not considered to be RECs for the subject property.
- One interviewee mentioned a CERCLA (or "Superfund") site with a bad dip vat, located over 1 mile downgradient from the subject property. Because of its distance from the subject property, and because of its location downgradient from the subject property, the dip vat site is not considered to be a REC for the subject property.
- SWCA's interview with personnel from the Navajo Nation Septic and Wastewater Program found that the large lagoons adjacent to the Reach 11 corridor, northeast of Twin Lake, are active lagoons, and there is no known contamination from them.
- SWCA's interview with personnel from the Navajo Nation Water Quality & NPDES Program found that abandoned lagoons near Twin Lakes were abandoned decades ago. They served an old school there, which may have also had a silversmithing operation that could have resulted in heavy metals in the lagoons. Because of their presumed hydrological distance from the subject property, and because heavy metals generally lack mobility in the soil matrix, the abandoned lagoons are not considered to be RECs for the subject property.
- SWCA's review of the EDR environmental database search generated on September 12, 2016, and supplementary searches of NMED, New Mexico Bureau of Geology and Mineral Resources, and EPA databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.
- The EDR report identified 29 sites or facilities that were listed in one or more regulatory agency databases but could not be mapped because of incomplete address or location information. SWCA reviewed each listing and found that none of the sites were potentially relevant to the subject property because of their location, status, and/or the type of database they were listed in. However, the following facility was noted in the list of unmapped sites in a recent GeoCheck environmental database report provided by the client:
 - The **Twin Lakes Lagoons**, located 0.35 miles from the subject property, were listed in the CERCLIS database as a NFRAP site (EPA ID No. NN0001092527). CERCLIS is now known as the SEMS database, and NFRAP sites are now known as archived sites. SEMS-Archive sites have no further interest under the Federal Superfund Program based on available information. Archived status indicates sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious

enough to require federal Superfund action or NPL consideration. This facility did not qualify for the NPL and was archived in 1995. No other information could be found regarding this listing. Because of the NFRAP status, and because of its presumed hydrological distance from the subject property, and for the reasons discussed above, this listing is not considered to be a REC for the subject property.

- SWCA's review of mapping from the New Mexico State Land Office and the New Mexico Oil Conservation Division did not identify any oil or gas wells on, adjacent to, or in the vicinity of the subject property.
- SWCA considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.
- SWCA's reconnaissance of the Reach 11 corridor on September 15, 2016, verified the above description of the subject property, and the following observations were made:
 - Except for the area around Twin Lakes, the vicinity of the subject property is primarily vacant, undeveloped desert land in all directions, except for a parallel natural gas pipeline 250 feet to the northwest. The area around Twin Lakes includes residential uses and an old waste lagoon.
 - A natural gas pipeline access and valve station was observed adjacent to the south of the south end of the corridor. No unusual odors, soil stains, or other evidence of potential contamination was observed in this area.
 - North of the valve station, several single-family homes are present on either side of the corridor, and a denser residential neighborhood exists farther north. Several more residences were observed west of the corridor, between the neighborhood and the waste lagoon. Most residences appeared to be in fair or good condition, and no stored chemicals or petroleum products were observed, except for propane tanks for heating. One home in the neighborhood had a 55-gallon drum in the back yard, and another had two drums. Because of their distances from the subject property, and because they appeared to be in good condition, the tanks and drums are not considered to be a REC for the subject property.
 - The two-chamber waste lagoon appeared to be completely dry and covered in healthy vegetation. This facility is described above.
 - An area roughly 1,000 feet northwest of the lagoons, and west of the corridor, included dumped trash such as bottles and cans, household items, televisions, windblown trash, and other such debris. Because no chemicals or petroleum products were observed, and no unusual odors, soil stains, or other evidence of potential contamination was observed in this area, the debris is not considered to be a REC.
 - Where the Reach 11 corridor crosses a wash 0.5 mile north of the lagoon, a large amount of trash and debris has been dumped west of the corridor. Observed materials appeared to be mostly household trash, wood and metal debris, drywall, an old mattress, and other such items. Because no chemicals or petroleum products were observed, and no unusual odors, soil stains, or other evidence of potential contamination was observed in this area, the debris is not considered to be a REC.
 - In Twin Lakes, east of U.S. 491, an abandoned building labeled TRADING POST was observed approximately 0.2 mile from the corridor. Such structures often used to sell gasoline, but no evidence of gas pumps or piping was observed. Because of its distance from the subject property, the abandoned building is not considered to be a REC.

- No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

8.0 PHASE I ESA CONCLUSIONS

SWCA has completed a Phase I ESA of the subject property based on information obtained during the site investigations conducted on September 15, 2016, and the information obtained through the activities of this Phase I ESA, excluding the limitations.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of Reach 11 of the NGWSP, in McKinley County, New Mexico, the *property*. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

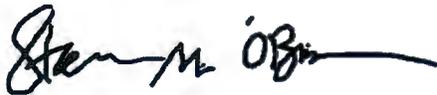
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10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312. Our qualifications are presented in Appendix B of this report.



Steven M. O'Brien
Environmental Specialist / Environmental Professional

November 14, 2016

Date

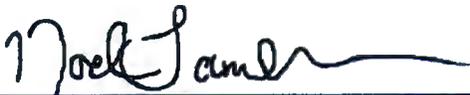


DeAnne Rietz
Environmental Specialist / Environmental Professional

November 14, 2016

Date

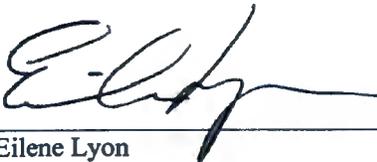
Fieldwork and reporting support was conducted in conformance with ethical business practices and industry standards by staff with the education, training, and experience to assess a property of the nature, history, and setting of the site. Fieldwork was conducted under the direction of the Environmental Professionals.



Noel Tamboer
Natural Resources Specialist

November 14, 2016

Date



Eilene Lyon
Natural Resources Specialist

November 14, 2016

Date

APPENDIX A
Phase I ESA Proposal

NAVAJO GALLUP WATER SUPPLY PROJECT

ENVIRONMENTAL SERVICES

REACH 11 PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

TASK ORDER No.

CONTRACT No. R13PC40003/4

SECTION C – DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

General

Reach 11 of the NGWSP is continuing environmental investigations, documentation and land acquisitions prior to construction scheduled for mid FY2017. The segment known as Reach 11 of the NGWSP is approximately 4 miles in length and traverses McKinley County, NM south of Navajo Service Route 9 and east of US491. Reach 11 begins approximately 2 miles east on Navajo Service Route 9, from the junction of US491 and NSR9; Reach 11 picks up where Reach 10 ended on the north side of NSR9 adjacent to the EPNG/Kinder Morgan underground pipeline route. Reach 11 continues to follow this pipeline route in a south-southwesterly direction, until the Twin Lakes Lagoons and just northeast of Twin Lakes Elementary School. Reach 11 runs between the lagoons and Gossip Hill and then turns due south until after crossing Bass Lake Road. Reach 11 then turns to a west path to run along the south side of a residential area, until it resumes an adjacent route next to the underground pipeline. Reach 11 ends on the east side of US491, approximately 0.4 miles north of Watson Road. Among the environmental studies and documentation required for NGWSP Reach 11 is a Phase I Environmental Site Assessment (Phase 1). The purpose of this Task Order (TO) is to request preparation of a Phase 1 satisfactory to requirements from Regional Reclamation staff.

Qualifications

The contractor shall provide a qualified Environmental Professional (EP) with qualifications meeting or exceeding the requirements found in 40 CFR 312 and 33 CFR 137. Any portions of the work, as allowed by the current version of ASTM E1527, not carried out by the qualified EP must be done under the supervision of the qualified, approved, signatory EP.

The work shall be conducted consistent with accepted professional standards, guidance provided by Reclamation and other governance practices such as, but not exclusively limited to:

- ASTM E1527-13 or most current E1527 standard
- 40 CFR 312
- 33 CFR 137
- CERCLA, OPA and all other related applicable environmental laws and regulations enforceable by federal, state, tribal and/or local governments.

Tasks

Conduct a Phase 1: Per the above standards, including the contractor shall conduct a Phase 1 satisfactory to Reclamation requirements.

Deliverables

The contractor shall prepare and provide a Phase 1 Report for Reach 11. The contractor shall deliver an electronic copy for internal Reclamation review; it shall be considered a draft report. Reclamation shall conduct internal review and provide comments back to the contractor. The contractor shall address all comments provided by Reclamation and provide a final draft report. Once accepted by Reclamation, the contractor shall provide Reclamation with three (3) hard paper copies with ink signatures from the qualified, approved EP of the finalized Revision report and an electronic file format copy, either transmitted by CD/DVD media or internet/email distribution.

Schedule

Reclamation shall provide the contractor within five (5) business days all information the contractor requests to conduct this work, including but not limited to: contact information for allottee and private landowners, contact information for utility and Oil & Gas companies, contact information for federal and tribal agencies, internal documents of research into environmental records, detailed proposed pipeline alignment and associated land status information (maps and/or GIS/GPS files), copies of pertinent to Reach 11 Right of Entry Permits and Chapter Resolutions, and internal memos/meeting notes of comments on the concerns/needs from the Regional Lands and Environmental Divisions. The contractor shall request within two (2) business days after issuance of Notice to Proceed (NTP) of any additional documents or information needed from Reclamation to perform the work of this TO.

The contractor shall perform the work and produce the draft within two (2) weeks from date of NTP. Reclamation shall conduct all internal reviews and provide comments back to the contractor within one (1) week from receipt of draft report from the contractor. Upon receipt of comments from Reclamation, the contractor shall provide a final draft to Reclamation within five (5) business days. Reclamation will give approval or additional comments on the final draft within two (2) business days. Upon approval by Reclamation of the final draft, the contractor shall provide the final hard copies and electronic copy to Reclamation within three (3) business days.

Period of Performance

The expected period of performance is from date of award until October 21, 2016.

SCOPE OF WORK FOR A PHASE I ENVIRONMENTAL SITE ASSESSMENT

Nelson Consulting, Inc. (NCI) and SWCA Environmental Consultants (SWCA) will complete a Phase I Environmental Site Assessment (ESA) for the approximately 4-mile long Reach 11 of the NGWSP in McKinley County, New Mexico. The Phase I ESA will be completed in general accordance with the standards described in American Society for Testing and Materials (ASTM) Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (2013) and with the guidance provided in 40 CFR 312, 33 CFR 137, CERCLA, OPA, and other applicable guidance ensuring the report is consistent with accepted professional standards.

The goal of the Phase I ESA is to assess the subject property, to the extent practical, for the potential presence of recognized environmental conditions (RECs), defined in ASTM Standard E 1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions." The following scope of work applies to a Phase I ESA, and consists of five subtasks.

1.1 RECORDS REVIEW

We will review appropriate documents including historical aerial photographs, topographic maps, and other land-use documents in order to identify past operations or activities that may have caused the release of hazardous substances into the environment. Because obtaining historical aerial photography of a long corridor may be cost-prohibitive, SWCA will only order historical aerial photography for currently or previously developed areas.

If made available by the client, we also will review copies of environmental reports previously prepared for the site, environmental compliance audits, environmental permits, environmental liens and activity and use limitations (AULs), and other available environmental documents relating to the site. If provided by the client, specialized knowledge of or experience relating to the property or nearby properties will be reviewed. As part of the review process, site location, hydrogeological characteristics, geographic setting, and physiography also will be summarized.

Additionally, available state and federal regulatory databases will be reviewed to determine whether the subject property or nearby facilities have been subject to environmental actions or review. The regulatory database review will, at a minimum, include the databases required to satisfy the ASTM standard. If the subject property or an adjoining property appears on a federal, state, or tribal database, the ASTM standard requires additional in-person regulatory file review unless the environmental professional determines that a file review is unnecessary and/or that the records cannot be obtained within a reasonable time (20 calendar days from the date of request) for a reasonable cost.

1.2 INTERVIEWS

If site contact and/or property owner contact information is made available by the client, we will attempt to interview those individuals who are knowledgeable about the history of the site (typically, a past or current owner, operator, manager, or occupant of the site). Reasonable attempts will be made to interview at least one staff member of state or local government agencies regarding information that indicates RECs in connection with the property.

1.3 SITE RECONNAISSANCE

NCI and SWCA personnel will conduct a reconnaissance of the site and vicinity to visually identify and photograph areas with potential RECs and to document current site conditions. Because of the size of the site and because much of the site is vacant land with no history of development, SWCA personnel will use aerial photography and topographic maps to identify specific areas of the project area that will require in-person observation. SWCA personnel will then conduct a reconnaissance of those areas and adjacent land to visually identify and photograph areas with potential RECs and to document current site conditions. This scope of work does not include activities such as collecting or analyzing soil, air, water, or other environmental samples and will not address issues such as radon, asbestos, lead, or radioactivity. We will visually inspect the property and the interiors of structures where hazardous chemicals and petroleum products are stored or used. Because of the remote and historically undeveloped nature of the northern part of the site, SWCA will use aerial photography and topographic mapping to identify specific areas of that part the site that merit an in-person observations. SWCA personnel will require access to all areas of the subject property on the day of the site reconnaissance. Access to private or restricted areas and any necessary work permits will be arranged by a client representative.

1.4 USER-PROVIDED INFORMATION

User-provided information is an essential component of the Phase I ESA and includes items such as copies of any previous Phase I ESAs or other relevant environmental documents, a completed Phase I ESA User Questionnaire, the reason why the Phase I ESA is being performed, access to the subject property, and contact information for current or past owners or land users. The user of the report is defined as the party seeking to use ASTM Standard E 1527-13 to complete a Phase I ESA of the property.

The ASTM standard also requires that the user of the Phase I ESA report must search recorded land-title records and judicial records for environmental liens and AULs and must report this information to SWCA, as the environmental professional writing the Phase I ESA report. Environmental liens and AULs can commonly be found within recorded land title records (e.g., County Recorder/Registry of Deeds). The types of title reports that may disclose environmental liens and AULs include Preliminary Title Reports, Title Commitments, Condition of Title, and Title Abstracts. In jurisdictions where environmental liens or AULs are only recorded or filed in judicial records, the judicial records must be searched for environmental liens and AULs. The user may wish to engage a title company, real estate attorney, or title professional to undertake a review of reasonably ascertainable recorded land-title records and lien records for environmental liens and AULs. If the user opts not to search for liens and AULs, this would be noted as a limitation of the report.

A 50-year chain-of-title report and a search for liens and AULs will not be obtained by SWCA under this scope of work. SWCA will, however, review a chain-of-title report and lien search if supplied by the client, or we will obtain these data at an additional cost to this scope of work, if requested by the client.

1.5 REPORT GENERATION

The Phase I ESA findings will be summarized and documented in one report. Sections within the report will include 1) an introduction and description of the scope of work; 2) a description of the site; 3) a summary of the site history, including interviews and user-provided information; 4) a regulatory database review; 5) a description of the site reconnaissance; and 6) report findings and conclusions. Deviations from ASTM will be explained and justified. The potential for contaminant migration, including vapor in the subsurface, will be assessed in accordance with ASTM Standard E 1527-13; however, a formal ASTM Standard E 2600-10 Vapor Encroachment Screening to identify vapor encroachment conditions will not be conducted as part of this scope of work. Report limitations and literature cited will also be included. Figures, at a minimum, will include 1) a regional site location map; and 2) an aerial photograph. Where applicable, report appendices could include 1) reproductions of select

aerial photographs; 2) a copy of the regulatory database review report; 3) select site photographs; 4) applicable site history and prior-use documentation; and 5) copies of relevant environmental reports.

According to ASTM Standard E 1527-13, the content of a Phase I ESA is valid for only 180 days. If the date of the intended use for Phase I ESA is not within 180 days of the completion of the report, an update will be necessary.

COST

Cost to complete the Phase I ESA: [REDACTED]

SCHEDULE

We will perform the work and produce a draft report within 2 weeks from the date of notice to proceed. Upon receipt of comments we will provide a final draft within five 5 business days. Upon approval by Reclamation of the final draft, we will provide the final hard copies and electronic copy to Reclamation within three 3 business days.

ASSUMPTIONS

1. The draft report will be delivered in electronic format and final report will be delivered as 3 hard copies and in electronic format. Substantial report revisions such as changes to the scope of work or the project area will incur additional cost.
2. The client will provide detailed site mapping prior to commencement of work.
3. Access to private or restricted areas and any necessary work permits will be arranged by a client representative. All areas of the site are reasonably accessible and access will be provided to the interiors of any areas where hazardous chemicals and petroleum products are stored or used. Delays due to weather or the client will incur additional cost.
4. Any task not expressly described herein is not included in the proposed cost.
5. The Phase I ESA will be prepared in general accordance with ASTM standards and does not include any sampling such as soil, air, water, vapor, lead, or asbestos.
6. The date of the intended use of the Phase I ESAs is within 180 days of the completion of the report.

ATTACHMENT – Signatory Environmental Professional Qualifications

APPENDIX B
SWCA Credentials

DEVIN KEANE**PLANNER AND PROJECT MANAGER**

Mr. Keane has been a project manager and environmental planner in SWCA's Phoenix office for ten years, currently residing in the Washington, DC metro area. Mr. Keane focuses on permitting compliance, policy analysis and research for Clean Water Act Sections 404, 402, 401, and NEPA. Mr. Keane has also completed numerous Phase I ESAs (Phase I), NEPA EAs, and Storm Water Pollution Prevention Plans, and is an 'Environmental Professional' per ASTM Phase I standards.

Mr. Keane has completed numerous jurisdictional determinations, wetland surveys and permits, coordinating with the USACE, state and local agencies for projects of varied sizes and complexity in Arizona, Utah, and Nevada. Areas of specialization include obtaining state and federal permits for clients, water resource studies, policy analysis, legal research, data collection and analysis. Types of determinations confirmed by USACE have ranged from several thousand acre projects containing ephemeral streams to small, isolated wetland delineations. Many of these determinations have led to preparing Section 404 permits of varied complexity and involved coordination with multiple agencies.

YEARS OF EXPERIENCE

10

EXPERTISE

Clean Water Act Permitting
(404/401/402)

NEPA Environmental Assessments

Phase I and II Environmental Site
Assessments

Statistics

EDUCATION

M.S., Applied Economics; Johns
Hopkins University; 2015

M.A., Urban & Environmental Planning;
Arizona State University; 2006

B.S., Geography; Northern Arizona
University; 2003

TRAINING

Time series analysis, Johns Hopkins
University, 2015

Generalized Linear Regression
modeling in R, 2016

Project Management Training, PMP,
2008

SELECTED PROJECT EXPERIENCE

Cascada Master Planned Community Individual Permit Modification, Marana, Arizona (2016). Modification of a Section 404 Individual Permit for master planned development in Pima County, including a new Environmental Assessment (EA) and Alternatives Analysis to comply with NEPA, pursuant to USACE Guidelines. Project involved several modifications to the design, coordination with USACE, USFWS, local interest groups and client engineers. The permit project inception began in 2003 and underwent several iterations due to changing economic conditions. *Role: Permitting Specialist. Coordination with USACE, alternatives development, economic analysis of alternatives.*

Laughlin Airport Runway Extension, Mohave County, Arizona; USACE, FAA (2015). Prepared a Section 404 Nationwide Permit (NWP) for Laughlin-Bullhead Airport's runway extension project, pursuant to USACE Guidelines. Project involved several modifications to the design to reduce the permit from an Individual Permit to NWP, coordination with USACE, consultation with FAA on NEPA compliance, and project engineers. *Role: Project Manager.*

Pee Posh Wetlands Restoration, Gila River Indian Community, Arizona; Gila River Department of Water Resources (2013). Provided environmental services for enhancement and fire rehabilitation of the Pee Posh Wetlands on the Gila River Indian Community, within the Salt River floodplain. Services provided included a Section 404 wetlands delineation, biological surveys, 404 wetlands restoration permit and EPA Section 401 Certification. *Role: Project Manager.*

Laguna Fire Restoration Project, Yuma County, Arizona; Bureau of Land Management (2012). Provided environmental services for the rehabilitation of the fire damaged Betty's Kitchen recreation area along the Colorado River north of Yuma and Laguna Dam. Services provided included a Section 404 wetlands delineation, restoration permit and Arizona Section 401 Certification. *Role: Wetlands and Permitting Specialist.*

Education / Training

- B.A., Biology / Chemistry, Gettysburg College; 1994

Expertise

- ESAs, EDDAs, EBSs
- Wetland delineation and hydric soils
- Stream channel assessment and restoration
- State/National Environmental Policy Act (S/NEPA) documentation
- Protected species
- 404/401 permitting
- Construction oversight
- Project management

Relevant Projects

- Phase I EDDAs for nine Airport Expansion Projects
- Phase I ESA and SWPPP Review for Trucking Facilities; Rayne, Louisiana
- 52-square-mile Phase I ESA for Wind Farm Construction; Colorado
- 43,000-acre Phase I ESA for Wind Farm Construction; Williams, Arizona
- Numerous Phase I ESAs for oil & gas facilities; Wyoming, North Dakota
- 4,500-acre Phase I ESA for Wind Farm Construction; New Mexico
- Phase I ESA of Former Naval Depot for Redevelopment; Guam
- 86-mile Transmission Line Phase I ESA and Wetland Delineation; Florence, South Carolina
- Several Phase I ESA for Solar Development; California, Arizona, New Mexico, and Hawaii
- 950-acre Phase I ESA and Wetland Delineation; Fort Stewart, Georgia
- EBS for Wastewater Treatment Plant Improvements; Schofield Barracks U.S. Army Post, Honolulu, Hawaii

Mr. O'Brien is an Environmental Specialist in SWCA's Phoenix, Arizona office. He has 18 years of experience in environmental consulting and technical writing, including 15 years of extensive experience performing Phase I environmental site assessments (ESAs), and is an integral part of SWCA's NEPA team.

He has performed numerous ESAs in a variety of locations, from uninhabited deserts and mountains to dense metropolitan settings in 20 states and Guam, from tiny parcels to 600-square mile assemblages, including a U.S. Environmental Protection Agency (EPA) Superfund site and Department of Defense sites. He teaches others to conduct ESAs and has prepared and taught classroom and field sessions on ESA field and writing techniques. His specialties include performing FAA-Standard Phase I Environmental Due Diligence Audits (EDDAs) for airport projects and using ASTM Standard 2247-08 for large-scale projects. He is skilled in applying the principles of ESAs to Environmental Baseline Surveys (EBSs) for Department of Defense sites and classification of environmental condition of property area types. He manages the large and difficult Phase I ESAs for SWCA.

Mr. O'Brien is also experienced in performing soil mapping, wetland delineations, habitat assessments, permitting, protected species, and stream morphology assessments. He has delineated more than 40,000 acres of wetlands and has performed assessment, design, and construction oversight for more than 250 stream stabilization sites. He has completed M.A.-level coursework in soil characterization and hydric soils. He has extensive experience performing construction oversight and has experience training contractors, staff, and local officials.

Mr. O'Brien has extensive plant, soil, and hydrology fieldwork experience, in locations from coastal marshes to deserts to high in the Rocky Mountains. He has been 40-hour Hazardous Waste and Emergency Response (HAZWOPER)-certified since 1996. He earned a Watershed Training Certificate from the EPA, a Water Supply Watershed Protection certificate, and is a current member of the Arizona Association of Environmental Professionals and the Arizona Riparian Council.

Years of Experience

17

Expertise

ESAs and SWPPPs

EA/EISs

Hydrologic/hydraulic
sensitivity analysis

Surface water and
groundwater modelling
and floodplain
mapping

Education

M.S., Watershed
Management;
University of Arizona;
Tucson; 1999

B.S. magna cum laude,
Natural Resources;
University of Arizona;
Tucson; 1997

**Registration/
Certification**

CPESC – Certified
Professional in Erosion
and Sediment Control
(Certification Number
6100)

Training

ESAs for Commercial
Real Estate—ASTM-
accredited Course;
2006

U.S. Environmental
Protection Act All
Appropriate Inquiry
and the New ASTM
Phase I Standard after
AAI—ASTM-accredited
Course; 2007–2008

Experience Summary

Ms. Rietz is a hydrologist and project manager in SWCA's Phoenix office, with experience in compliance with the National Environmental Policy Act (NEPA), Sections 402 and 404 of the Clean Water Act (CWA), and the Arizona Groundwater Code.

Ms. Rietz has developed scientific studies and prepared resource reports in support of environmental assessments (EAs), environmental impact statements (EISs), and stormwater pollution prevention plans (SWPPP) throughout the desert southwest, and Guam. Her experience also includes GIS analysis, vegetative mapping, and the use of programs such as THWELLS and Hydrologic Engineering Center software for ground and surface water modeling and floodplain mapping. Ms. Rietz has conducted sensitivity analysis on riparian restoration projects and is experienced in performing Phase I and II environmental site assessments (ESAs) in accordance with the American Society for Testing and Materials Standards for ESAs.

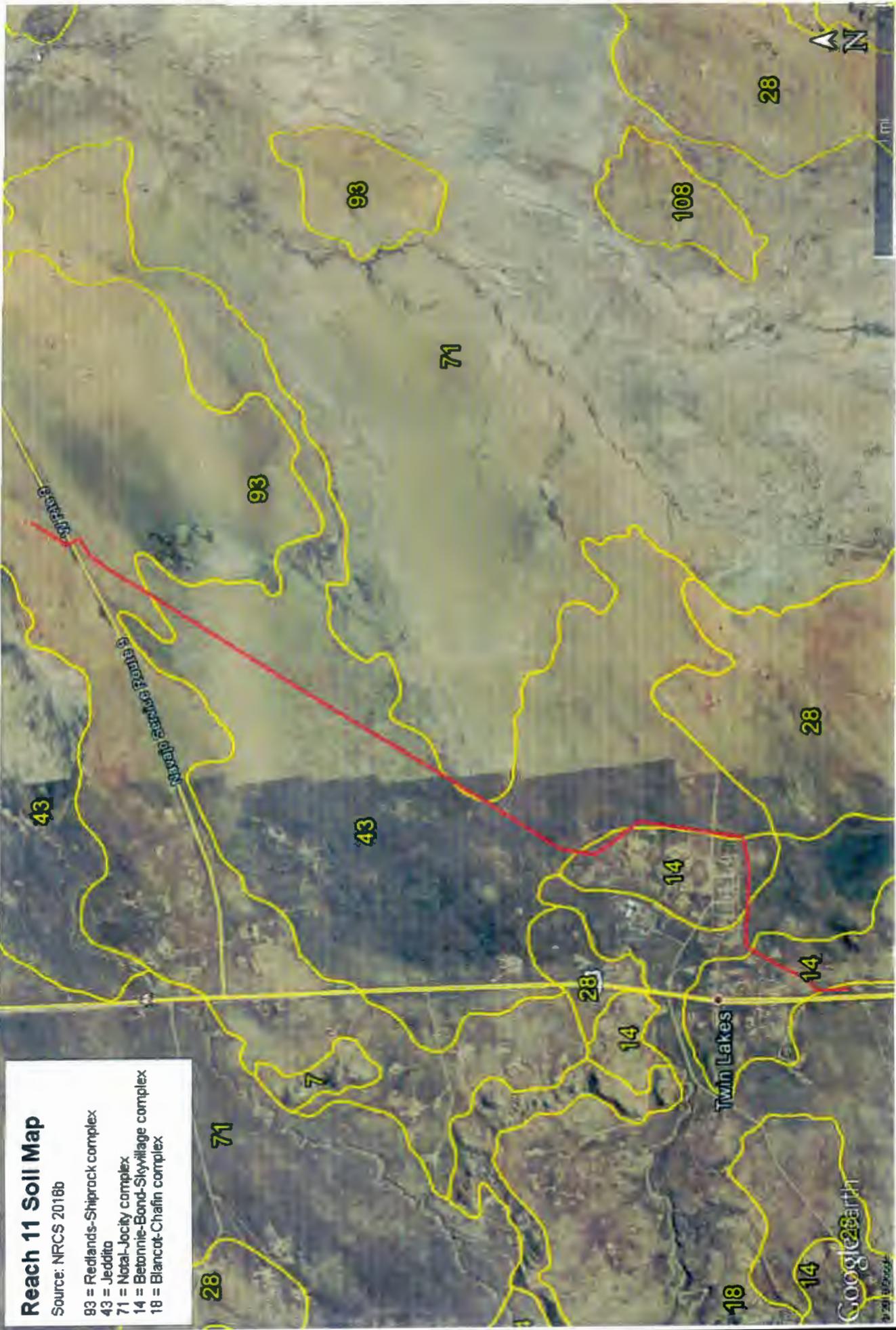
Selected Project Experience

Southline Transmission EIS; Las Cruces, New Mexico, to Tucson, Arizona; Southline Transmission LLC. SWCA serves as the third-party NEPA consultant to the BLM and the Western Area Power Administration (the co-lead federal agencies) and Southline Transmission LLC (the proponent). The project proposes more than 360 miles of new and rebuilt transmission line and will provide 1,000 megawatts of capacity in southern New Mexico and Arizona. SWCA is responsible for successfully coordinating with multiple agencies, consultants, and developers to ultimately compile a comprehensive and legally defensible EIS. *Role: Resource Coordinator. Manage data acquisition and coordinate resource reporting by various authors. Research and writing in support of EIS.*

Perrin Ranch; Coconino County, Arizona; NextEra Energy Resources, LLC. SWCA completed pre-construction surveys, permitting, and construction monitoring for installation of the 99-megawatt wind facility and post-construction monitoring studies as described in the Avian and Bat Protection Plan. *Role: Hydrologist. Conducted water resources analysis in support of the environmental assessment. Analyzed best management practices proposed for erosion control. Performed a phase I environmental site assessment on the private and state trust lands associated with the project.*

Phase I ESA for 30-acres at Apra Harbor; Piti, Guam; TG Engineers. SWCA performed a phase I environmental site assessment (ESA) and follow up mitigation plan for a commercial development of a 30-acre parcel at Polaris Point in Piti, Guam. *Role: Environmental Specialist, performed environmental record and historical aerial photography review, assessed the presence of recognized environmental conditions and formulated Phase II sampling plan to characterize contaminants at the site.*

APPENDIX C
Additional Records



Reach 11 Soil Map
 Source: NRCS 2018b

- 93 = Redlands-Shiprack complex
- 43 = Jeddita
- 71 = Notal-Jocity complex
- 14 = Bettonie-Bond-Skyvillage complex
- 18 = Blancot-Chafin complex

APPENDIX D
Property Photographs



Photo 1. Natural gas infrastructure, just south of the southern terminus of Reach 11.



Photo 2. Adjacent residences near the southern end of Reach 9.



Photo 3. This neighborhood is adjacent to the north of Reach 11, east of Twin Lakes.



Photo 4. This abandoned trading post is along the east of U.S. 491 in Twin Lakes.



Photo 5. These two-chamber lagoons were completely dry and covered in healthy vegetation.



Photo 6. This windblown trash was present adjacent to the west of Reach 11.



Photo 7. The Reach 11 corridor crosses a wash 0.5 mile north of the lagoon. This trash was located south of the wash, within the natural gas pipeline corridor.



Photo 8. Three of the four pipelines in a wash, exposed by erosion.



Photo 9. The fourth pipeline in the wash, exposed by erosion.

APPENDIX E

Correspondence

Navajo Gallup Water Supply Project

Reach 11 – Phone Interview

October 6th, 2016

Name of Interviewer: Noel Tamboer, Nelson Consulting, Inc.

Name of Interviewee: MRutheyi Thompson, Bureau of Reclamation

The purpose of this investigation is to recognize existing and potential sources of environmental contamination along the subject property in question and to further inquire about the extent of contamination at each site. According to MRutheyi Thompson with the Bureau of Reclamation, there are a few potential sites for concern along the proposed Reach 11 alignment. The lagoon near Twin Lakes is one of the bigger concerns on/near the subject property.

1. South of Route 9, at the north end of the alignment there is a possible water pump. Did not say who it belongs to or any further information about it.
2. Debris-field photographs should be included in report for visuals (near wash and further down alignment).
3. A sewer manhole cover was mentioned. She didn't give any further reference to its location but I am assuming it is the one we photographed. She did not seem concerned with it.
4. The lagoon, which is less than 1/8 of a mile from the proposed Reach 11 alignment. Did not have any information on whether it was properly abandoned or not. She said it had water in it last time she was onsite.

-ABOVE FOUR SITES ARE ALL NORTH, NORTHEAST OF THE ELEMENTARY SCHOOL.

5. Depending on how wide our search radius is drawn, there is a Collection Station across the street from Bass Lake Rd. on the west side of 491. There are four above-ground storage tanks that a gentleman, who was an employee of the station, said were empty. MRutheyi said she did not go over to verify that they were. He also told her that no one uses them and he isn't aware of who owns them. This might all be just barely within the search radius but it is up-elevation from the alignment (she said it looks to be just outside a half-mile radius).
6. At the end of Bass Lake Rd. is a CERCLA site with a bad dip vat (2 or 3 tenths of a mile outside of search radius). Even though it's a little outside radius, MRutheyi is concerned because of the clay/loam presence in the soil and their ability to transmit contaminants rapidly and possibly subsurface. The toxic yellow-green sludge there shows up on satellite imagery. She has contacted the Navajo Nation EPA for more information on this site and has yet to receive any response.

Navajo Gallup Water Supply Project
Reach 11 – Interview Responses via email
October 3rd, 2016

Name of Interviewer: Noel Tamboer, Nelson Consulting, Inc.

Name of Interviewee: Ryan Gladden, Bureau of Reclamation

The purpose of this investigation is to identify potential sources of environmental contamination along the subject property in question and to further inquire about the extent of contamination at each site. According to Ryan Gladden, with the Bureau of Reclamation, the only potential site of environmental concern is the old lagoon, northeast of Twin Lakes. There is also a large amount of debris near the wash along this Reach; however nothing leaking or extremely hazardous was identified on the ground. There is not enough information given in this interview to make a determination on the severity of contamination present within the subject property right-of-way (ROW).

Question: Has there ever been mining activity or oil and gas exploration or development on any part of the property?

Answer: “Yes there are high pressured gas lines that run along the Reach. There are some gas wells scattered around. Other than that, I am not aware of any other gas or oil exploration along Reach 11.”

Question: Has any part of the property ever been used for agricultural purposes, such as livestock or crops? Are there known livestock dip vats? If so, are the locations known?

Answer: “I have seen livestock about, but not any evidence of dip vats, or if they ever existed within the Reach.”

Question: Is there any evidence that waste materials were dumped above grade, buried, or burned, either currently or previously, on the property? Examples include hazardous materials, petroleum products, labeled or unlabeled drums or containers, pesticide containers, household and farm debris, automotive or industrial batteries, building demolition debris, or other waste materials.

Answer: “There are a lot of dumping sites periodically along site. A lot of garbage has been dumped near the large wash on this Reach. I did not look for or notice any hazardous materials.”

Question: Has any part of the property itself ever had a septic system or sewage lagoon?

Answer: “There is an abandoned lagoon near our ROW on Reach 11.”

Question: What was this lagoon used for? Is it lined or unlined? Is it still in use? Are there any known leaks, spills, or sources of contamination there?

Answer: “I do not know. No, I do not believe they are in use.”

Adapted from: *Environmental Compliance Memorandum No. ECM 10-2. Pre-Acquisition Environmental Assessment Guidance for Federal Land Transactions. Appendix A: Land Acquisition Screening Process Worksheets, Worksheet 2: Interviews with Past and Present Owners, Operators, and Occupants.* USDA Department of the Interior, 2010.

Person Interviewed: Ryan Gladden

Date of Interview: Week of September 26th, 2016

Via Phone or Email? Email, phone call if needed

Person Conducting Interview: Noel Tamboer

Site Name: NGWSP (Reaches 9, 10, 11, and 12.2)

1. Has any part of property ever been used for an industrial or commercial use (e.g., official and unofficial shooting ranges; processing, handling, management, disposal, storage, manufacture, or transportation of hazardous substances or petroleum products, such as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photographic developing laboratory, methamphetamine laboratory, junkyard, bone yard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility)? **I am only aware of the Compressor Station on Reach 9 that would have potentially handled any hazardous substances. I was told by a resident whose family has lived nearby for many years that they used to see the operators (El Paso back then I believe) dump something around that area. Whether it was hazardous or not the resident did not know and it was referred to as last happening maybe in the late 80's or early 90's. I believe Kinder Morgan's lines are all natural gas and I am not sure if they deal with petroleum products within our reaches or what, if any, hazardous substances result from pumping the gas onwards at the compressor station.**
2. Has there ever been mining activity or oil and gas exploration or development on any part of the property? **Yes there are high pressured gas lines that run along reach 9, 10, and 11. The compressor station is on reach 9. There are some gas wells scattered around. Other than that, I am not aware of any other gas or oil exploration.**
3. When was the KMI pipeline installed? What does it carry? Have there been any known leaks, spills, cleanups, etc? Do you have a contact for the pipeline we could speak with? (Reaches 9/10/11 only) **I do not know of any spills, leaks, cleanups. I believe all of their production is Gas in that area. If I remember right, it seems at least some of the gaslines were 40 or 50 years old possibly. I believe I was told this by one of the Kinder Morgan employees. You can speak with Larry Macias who has been helpful with me. His email is larry_macias@kindermorgan.com (I do not have a phone number) or David Haynes at 505-722-3605.**

4. Has any part of the property ever been used for agricultural purposes, such as livestock or crops? Are there known livestock dip vats? If so, are the locations known? **I have seen livestock about, but not any evidence of any dip vats, or if they ever existed within any reaches.**
5. Do the current operations on the property involve the use and storage of chemicals? **I do not know for certain.**
6. Are there any past operations at the property that involved the use or storage of hazardous materials and substances? **I do not know.**
7. Has there been a known spill or release of hazardous substances, petroleum products, or other potential environmental problems on any part of the property? **Not that I am aware of.**
8. If yes, has the release been mitigated? If yes, describe the mitigation, and indicate if the lead regulatory agency issued a no-further action determination. **I do not know.**
9. Has fill material ever been brought onto the property that originated from a contaminated site or that was of an unknown origin? **Not that I am aware of.**
10. Is there any evidence that waste materials were dumped above grade, buried, or burned, either currently or previously, on the property? Examples include hazardous materials, petroleum products, labeled or unlabeled drums or containers, pesticide containers, household and farm debris, automotive or industrial batteries, building demolition debris, or other waste materials. **There are trash dumping sites periodically along site. A lot of garbage has been dumped on reach 11 near the large wash. I did not look for or notice any hazardous materials.**
11. Are there current or past use of above-ground or underground storage tanks, including drums or other fuel containers, on the property? If yes, where, when, the types and quantities of materials stored? Was there ever a spill or release of hazardous substances associated with the tank system? Was it mitigated to the satisfaction of the lead regulatory agency? **I am only aware**

of the above grade pads at the Compressor station on reach 9 where tanks may have been located and used to store materials. I do not know what would have been stored.

12. Are you aware of any hazardous substance or pollutant or contaminant spill or release, or other potential environmental problems on any adjacent or nearby properties? Are you aware of contamination or residual contamination on adjacent or nearby properties that poses a threat or may pose a future threat to the property? **No I am not aware of any contamination or residual contamination on adjacent or nearby properties.**

13. Have contaminants ever been identified in on-site or adjacent drinking water wells or water systems, that exceeded acceptable levels? **I do not know.**

14. Does the property have any groundwater monitoring wells? If yes, explain the purpose of the wells. **I do not know.**

15. Has any part of the property itself ever had a septic systems or sewage lagoon? Not in our ROW that I am aware of. **There is an abandoned lagoon near our ROW on Reach 11 and one near the start of reach 9 in Naschitti.**

16. Are you aware of any environmental liens or environmental activity and land use limitations against the property that were filed or recorded under Federal, Tribal, State or local law? **I am not aware.**

Reach-Specific Questions:

Reach 9:

Old waste lagoons were identified north of Naschitti, what were these used for? When were they in use? When closed? Were they properly abandoned? Any known contamination to groundwater from the lagoons? **I am not aware of any contamination. I do not know about their history. I assume they were used for the community of Naschitti and I do not know if they were properly abandoned.**

DOT Facility west of 491 in the middle of the reach: Any known spills, leaks, cleanups there? There appear to be a few aboveground storage tanks (ASTs) – were there ever any underground storage tanks (USTs) there? **I do not know.**

Compressor station: When was it installed? What were the pits and lagoons used for? Were they lined or unlined? Are any still in use? Are there any known leaks, spills, or sources of contamination there? Do you have a contact for the compressor station we could speak with? **I would use the contacts listed above for Kinder Morgan. I do not know the answer to these questions.**

Reach 10: None.

Reach 11:

Lagoons northeast of Twin Lakes: What were they used for? Were they lined or unlined? Are any still in use? Are there any known leaks, spills, or sources of contamination there? **I do not know. No, I do not believe they are in use.**

Reach 12-2:

The coal mine: years of operation? Any known downstream contamination? Any problems with the areas that have been reclaimed where the corridor crosses through?

Speedy Gas Station at the east end: What is the current status of the cleanup?

Junkyard on a hilltop 1/2 mile north, up Star Route 5: Any known issues that could affect the corridor?

Any septic systems on or adjacent to the corridor?

**PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)
USER QUESTIONNAIRE**

Completed by:
[Gary Vance, USBR]

Date: [10/3/2016]

Re: Phase I Environmental Site Assessment for NGWSP: Reaches 9, 10, 11, 12.2

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*¹ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments")², the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate inquiries*" is not complete.

The *user* is defined as "the party seeking to use Practice E1527 to complete an *environmental site assessment* of the *property*. A *user* may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an owner of *property*, a lender, or a *property manager*. The *user* has specific obligations for completing a successful application of this practice outlined in Section 6" of ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

1) Environmental cleanup liens that are filed or recorded against the *property* (40 CFR 312.25) – Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed against the *property* under federal, tribal, state, or local law? () Yes () No If yes, please describe:

I did not complete a search of recorded land title records.

Note 1 – In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

2) Activity and land use limitations that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and vi) – Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any Activity and Use Limitations (AULs), such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law? () Yes () No. If yes, please describe:

I did not complete a search of recorded land title records.

¹ *Landowner Liability Protections, or LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide)* issued on March 6, 2003.

² Public Law 107-118.

3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28) - Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? () Yes (X) No If yes, please explain:

4) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29) – Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? () Yes () No
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? () Yes () No If yes, please describe:

I do not have any responsibility for the purchase price.

5) Commonly known or reasonably ascertainable information about the *property* (40 CFR 312.30) – Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

- a. Do you know the past uses of the *property*?
No
- b. Do you know of specific chemicals that are present or once were present at the *property*?
Asbestos coating from the Helium pipeline.
- c. Do you know of spills or other chemical releases that have taken place at the *property*?
No
- d. Do you know of any environmental cleanups that have taken place at the *property*?
No
- e. Do you know of any previous Phase I Environmental Site Assessment performed for the *property*? () Yes (X) No. If yes, can copies be provided?
- f. If available, please provide contact information for someone knowledgeable about past uses of the *property* (present or past owner, operator or occupant).

N/A

6) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31) – Based on your knowledge and experience related to the *property* are

there any *obvious* indicators that point to the presence or likely presence of releases at the property? (X) Yes () No If yes, please describe:

The asbestos wrapped Helium pipeline daylights and is visible periodically from Gallup, NM up toward Shiprock, NM.

Record of Contacts for Additional Interviews regarding Reach 11 of the NGWSP.

Conducted by: Steve O'Brien, SWCA

Date: Week of November 7, 2016

Geoff Heidke in the Kinder Morgan (KMI) ROW department

(505) 831-7770 / geoff_heidke@kindermorgan.com

- Called him 11/7. He said contact Larry ___ in operations, who would be more local. Was not at his computer and said to send an email, which I did.
- Email from G. Heidke on 11/8: Call Larry Macias, Operations Manager

Larry Macias, KMI Operations Manager

Office: 505-722-3634. Cell: 505-870-0877

Called him 11/8 and left message. Larry called me 11/9. Said:

- We spoke about the compressor station and pipeline history.
- Regarding all of the KMI pipeline in NW New Mexico, there have been no leaks, spills, or known contamination.
- The exposed pipelines in dry washes are not a concern, especially since the soil is sandy – there aren't moving boulders, etc. to potentially damage the lines.

Navajo Nation Septic and Wastewater Program

(928) 871-7755 nndomesticwastewater@gmail.com (couldn't find a contact name for this department)

- Called and spoke with Delpf__ He said the big lagoons next the ROW are active, and there's no known contamination.
- Does not know where the old lagoon(s) is but suggested it may be west of the highway.
- We looked at 1967 topo map and verified location! I called back several times to get the name of the person I spoke with and left one message.

Ronnie Ben, Navajo Nation EPA Surface and Groundwater Protection

ronnieben@navajo-nsn.gov (928) 871-7701

- Called him 11/7 left msg. He passed my info to Patrick Antonio, who called me 11/9

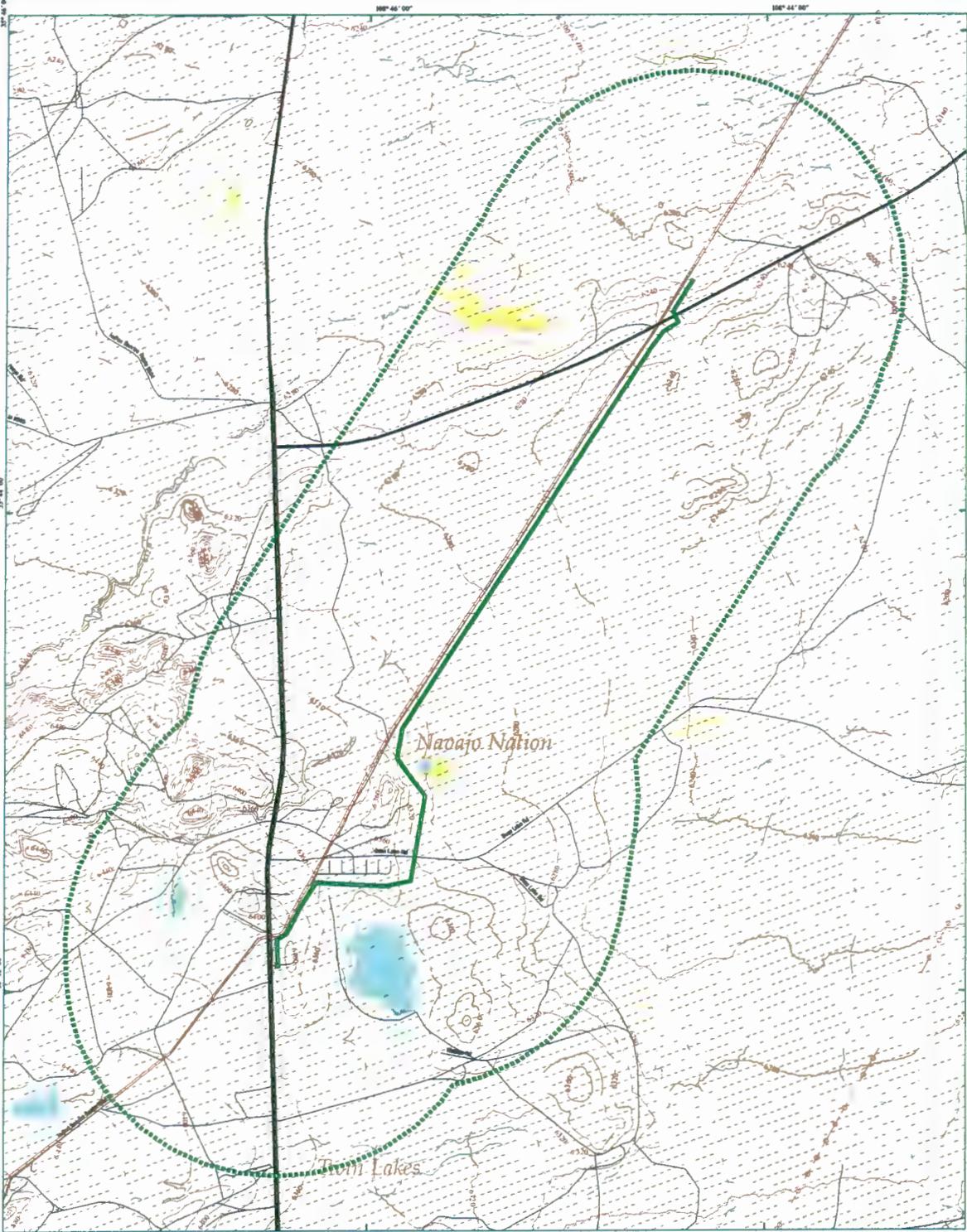
Patrick Antonio, NN Water Quality ADPS Program

patrickantonio@navajo-nsn.gov.

- We spoke about several Reaches of the NGWSP.

- He verified our newly-presumed location of the abandoned lagoons. Said the lagoons were abandoned decades ago, and they served an old school there. The school may have also had a silversmithing operation, which could have resulted in heavy metals in the lagoon.
- Regarding Reach 11, he didn't know of any concerns related to contamination along the corridor.

APPENDIX F
Environmental Database Records



EDR DataMap® - Corridor Study



26986.07 NGWSP Segment 11



Tohatchi, NM

- | | | | |
|--|---------------|-------------|----------------------------|
| Listed Sites | Major Roads | Pipelines | Superfund Sites |
| Earthquake Epicenters (Richter 5 or greater) | Waterways | Powerlines | Federal DOD Sites |
| Search Boundary | Railroads | Fault Lines | Indian Reservations BIA |
| Roads | Contour Lines | Water | National Wetland Inventory |



26986.07 NGWSP Segment 11

Tohatchi, NM 87325

Inquiry Number: 4722635.2s

September 12, 2016

EDR DataMap™ Corridor Study



6 Armstrong Road, 4th floor
Shefton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

TOHATCHI, NM 87325
TOHATCHI, NM 87325

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL RECORDS

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
Delisted NPL.....	National Priority List Deletions
NPL LIENS.....	Federal Superfund Liens
SEMS.....	Superfund Enterprise Management System
SEMS-ARCHIVE.....	Superfund Enterprise Management System Archive
LIENS 2.....	CERCLA Lien Information
CORRACTS.....	Corrective Action Report
RCRA-TSDF.....	RCRA - Treatment, Storage and Disposal
RCRA-LQG.....	RCRA - Large Quantity Generators
RCRA-SQG.....	RCRA - Small Quantity Generators
RCRA-CESQG.....	RCRA - Conditionally Exempt Small Quantity Generator
RCRA NonGen / NLR.....	RCRA - Non Generators / No Longer Regulated
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
DOT OPS.....	Incident and Accident Data
US CDL.....	National Clandestine Laboratory Register
US BROWNFIELDS.....	A Listing of Brownfields Sites
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
LUCIS.....	Land Use Control Information System
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
US MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems

EXECUTIVE SUMMARY

ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
PCB TRANSFORMER.....	PCB Transformer Registration Database
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ECHO.....	Enforcement & Compliance History Information
FEMA UST.....	Underground Storage Tank Listing
FEDERAL FACILITY.....	Federal Facility Site Information listing
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
COAL ASH DOE.....	Steam-Electric Plant Operation Data
2020 COR ACTION.....	2020 Corrective Action Program List
PRP.....	Potentially Responsible Parties
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
UXO.....	Unexploded Ordnance Sites
US HIST CDL.....	Delisted National Clandestine Laboratory Register
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing

STATE AND LOCAL RECORDS

SCS.....	State Cleanup Sites Listing
SHWS.....	This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.
SWF/LF.....	Solid Waste Facilities
SWRCY.....	Recycling Facility Listing
LTANKS.....	Leaking Storage Tank Listing
LUST.....	Leaking Underground Storage Tank Prioritization Database
TANKS.....	Storage Tank Facility Listing
UST.....	Listing of Underground Storage Tanks
LAST.....	Leaking Aboveground Storage Tank Sites
AST.....	Aboveground Storage Tanks List
SPILLS.....	Spill Data
INST CONTROL.....	Sites with Institutional Controls
VCP.....	Voluntary Remediation Program Sites
DRYCLEANERS.....	Drycleaner Facility Listing
BROWNFIELDS.....	Brownfields Site Listing
CDL.....	Clandestine Drug Laboratory Listing
NPDES.....	List of Discharge Permits
AIRS.....	Airs Information
ASBESTOS.....	List of Asbestos Demolition and Renovations Jobs
MINES.....	Coal Mine Permits Database

TRIBAL RECORDS

INDIAN ODL.....	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

INDIAN VCP..... Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historic Gas Stations
EDR Hist Cleaner..... EDR Exclusive Historic Dry Cleaners
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank
RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

TRIBAL RECORDS

INDIAN RESERV: This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 INDIAN RESERV site within the searched area.

<u>Site</u>	<u>Address</u>	<u>Map ID</u>	<u>Page</u>
NAVAJO INDIAN RESERV		0	4

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
<u>FEDERAL RECORDS</u>	
NPL	0
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
SEMS	0
SEMS-ARCHIVE	0
LIENS 2	0
CORRACTS	0
RCRA-TSDF	0
RCRA-LQG	0
RCRA-SQG	0
RCRA-CESQG	0
RCRA NonGen / NLR	0
US ENG CONTROLS	0
US INST CONTROL	0
ERNS	0
HMIRS	0
DOT OPS	0
US CDL	0
US BROWNFIELDS	0
DOD	0
FUDS	0
LUCIS	0
CONSENT	0
ROD	0
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	0
PADS	0
MLTS	0
RADINFO	0
FINDS	0
RAATS	0
RMP	0
PCB TRANSFORMER	0
DOCKET HWC	0
FUELS PROGRAM	0
ECHO	0
FEMA UST	0
FEDERAL FACILITY	0
LEAD SMELTERS	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Total Plotted</u>
US AIRS	0
FUSRAP	0
COAL ASH DOE	0
2020 COR ACTION	0
PRP	0
COAL ASH EPA	0
EPA WATCH LIST	0
US FIN ASSUR	0
UXO	0
US HIST CDL	0
SCRD DRYCLEANERS	0
 <u>STATE AND LOCAL RECORDS</u>	
SCS	0
SHWS	N/A
SWF/LF	0
SWRCY	0
LTANKS	0
LUST	0
TANKS	0
UST	0
LAST	0
AST	0
SPILLS	0
INST CONTROL	0
VCP	0
DRYCLEANERS	0
BROWNFIELDS	0
CDL	0
NPDES	0
AIRS	0
ASBESTOS	0
MINES	0
 <u>TRIBAL RECORDS</u>	
INDIAN RESERV	1
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0
 <u>EDR PROPRIETARY RECORDS</u>	
EDR MGP	0
EDR Hist Auto	0
EDR Hist Cleaner	0
RGA LUST	0
RGA LF	0

MAP FINDINGS SUMMARY

Database

Total
Plotted

NOTES:

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)Site

EDR ID Number

Database(s) EPA ID Number

IND RES **NAVAJO INDIAN RESERVATION**
Region
NAVAJO INDIAN RESERVATION (County), AZ
INDIAN RESERV:
 Feature: Indian Reservation
 Name: Navajo Indian Reservation
 Agency: BIA
 State: AZ-NM-UT

INDIAN RESERV **CIND100321**
 N/A



ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MCKINLEY COUNTY	1016170691	CROSSROADS RAD SITE	35.347844, -107.780181		SEMS
MCKINLEY COUNTY	S111022815	ESCALANTE GENERATING STATION (CLOSED)	297 CITY. RD 19; CLOSED JUNE 30, 1992		SWF/LF
MCKINLEY COUNTY	1015731618	DYSART #2 MINE - URANIUM MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731615	JOHN BULLY MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731628	SECTION 36 MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731617	SECTION 12 MINE - URANIUM MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	1015731616	SANDSTONE URANIUM MINE	POSTAL ADDRESS IS UNAVAILABLE FOR THE SITE		SEMS
MCKINLEY COUNTY	S111022906	CITY OF GALLUP MUNICIPAL LANDFILL OF G	T15N, R18W, E 1/2 SECTION 11, MCKINLEY COUNTY NORTHEAST		SWF/LF
MCKINLEY COUNTY	1015731628	MARQUEZ MINE	SECTION 23, T13N, R9W		SEMS
MCKINLEY COUNTY	1015731623	SECTION 15 MINE	SECTION 30, T14N, R10W		SEMS
MCKINLEY COUNTY	1015731624	SECTION 30 MINE	SECTION 30, T14N, R9W		SEMS
NASCHITTI	1009393307	RED MESA #507 AKA NASCHITTI TRADING POST	HCR 330 HWY 666	87325	INDIAN UST
NEWCOMB	U003913222	NEWCOMB TRANSPORTATION DEPARTMENT	HWY 666 NEWCOMB	87325	UST
NEWCOMB	S111764873	NEWCOMB TRANSPORTATION DEPARTMENT	HWY 666 NEWCOMB	87325	TANKS
SHEEP SPRINGS	S111764824	NASCHITTI	HWY 666	87325	TANKS
SHEEP SPRINGS	U003913217	NASCHITTI	HWY 666	87325	UST
TOHACHI	1014395006	TOHACHI MIDDLE SCHOOL	HIGHWAY 491, OFF COUGAR LN	87325	RCRA-CESQG
TOHACHI	1014395007	TOHACHI HIGH SCHOOL	HIGHWAY 491, OFF COUGAR LN	87325	RCRA-CESQG
TOHACHI	1015755121	GIANT #7251 (FORMERLY MUSTANG #7251) (FORMERLY THRIFTWAY 251)	HIGHWAY 491 MM 23	87325	INDIAN UST
TOHATCHI	1009393459	BUFFALO SPRINGS PATROL YARD	ROUTE 666	87325	INDIAN UST
TOHATCHI	1016978161	CHUSKA TRADING POST	HWAY 491 SW SR 108	87325	INDIAN LUST, INDIAN UST
TOHATCHI	U003913241	THRIFTWAY 251 R	US HWY 666	87325	UST
TOHATCHI	S111765573	THRIFTWAY 251 R	US HWY 666	87325	TANKS
TOHATCHI	1016978162	TOHATCHI TRADING POST	INDIAN SERVICE ROUTE 108 OFF HWAY 491	87325	INDIAN LUST, INDIAN UST
TOHATCHI	S117937722	TOHATCHI CONVENIENCE CENTER (CLOSED)	MCKINLEY COUNTY		SWF/LF
TOHATCHI	1001488831	USDOI BIA CHUSKA BOARDING SCHOOL	MI POST 21 1/4 MI NE HWY 666	87325	RCRA-CESQG
TOHATCHI	1000147035	NAVAJO TOHATCHIE DIP VAT	1/2MI. S.OF TOHATCHI, EAST SIDE OF RD.	87325	SEMS-ARCHIVE
TOHATCHI	1012125232	ALLISON'S TRADING POST	TOHATCHI, NM	87325	INDIAN LUST
TWO GREY HILLS	1012054068	TWO GREY HILLS TRADING POST	PHYSICAL JCT OF HWY 5000 AND HWY 5001 7 M. W. OF NEWCOMB	87325	INDIAN LUST, INDIAN UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 07/29/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 214-665-6444
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 214-665-6444
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 149

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/02/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 08/26/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 06/24/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/05/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (214) 665-2200
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 09/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/26/2016	Telephone: 202-564-8600
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 99	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015

Date Data Arrived at EDR: 10/27/2015

Date Made Active in Reports: 01/04/2016

Number of Days to Update: 69

Source: EPA

Telephone: 202-564-2496

Last EDR Contact: 06/22/2016

Next Scheduled EDR Contact: 10/10/2016

Data Release Frequency: Annually

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013

Date Data Arrived at EDR: 03/03/2015

Date Made Active in Reports: 03/09/2015

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-308-4044

Last EDR Contact: 09/06/2016

Next Scheduled EDR Contact: 11/21/2016

Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/08/2016

Date Data Arrived at EDR: 05/18/2016

Date Made Active in Reports: 09/02/2016

Number of Days to Update: 107

Source: Environmental Protection Agency

Telephone: 202-566-1917

Last EDR Contact: 08/17/2016

Next Scheduled EDR Contact: 11/28/2016

Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013

Date Data Arrived at EDR: 03/21/2014

Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000

Last EDR Contact: 08/08/2016

Next Scheduled EDR Contact: 11/21/2016

Data Release Frequency: Quarterly

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/11/2016

Date Data Arrived at EDR: 03/15/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 80

Source: Department of Energy

Telephone: 202-586-3559

Last EDR Contact: 07/26/2016

Next Scheduled EDR Contact: 11/21/2016

Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 49

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/12/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/20/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Varies

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

STATE AND LOCAL RECORDS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A	Source: Department of the Environment
Date Data Arrived at EDR: N/A	Telephone: 505-827-2918
Date Made Active in Reports: N/A	Last EDR Contact: 06/24/2016
Number of Days to Update: N/A	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: N/A

SCS: State Cleanup Sites Listing

State cleanup sites that fall under the state's Water Quality Control Commission Regulations.

Date of Government Version: 04/14/2016	Source: Environment Department
Date Data Arrived at EDR: 04/21/2016	Telephone: 505-827-2855
Date Made Active in Reports: 06/21/2016	Last EDR Contact: 04/19/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Varies

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/01/2015	Source: New Mexico Environment Department
Date Data Arrived at EDR: 06/12/2015	Telephone: 505-827-0347
Date Made Active in Reports: 07/23/2015	Last EDR Contact: 08/12/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWRCY: Recycling Facility Listing

A listing of recycling facility locations.

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 06/12/2015
Date Made Active in Reports: 07/23/2015
Number of Days to Update: 41

Source: Environment Department
Telephone: 505-827-0197
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

LTANKS: Leaking Storage Tank Listing

A listing of leaking storage tank site locations.

Date of Government Version: 01/04/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/17/2016
Number of Days to Update: 40

Source: Environment Department
Telephone: 505-476-4390
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LUST: Leaking Underground Storage Tank Priorization Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 10/06/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 33

Source: New Mexico Environment Department
Telephone: 505-476-4397
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

TANKS: Storage Tank Facility Listing

A listing of aboveground and underground storage tank site locations.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 02/02/2016
Number of Days to Update: 56

Source: Environment Department
Telephone: 505-476-4390
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

UST: Listing of Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/27/2006
Date Made Active in Reports: 10/23/2006
Number of Days to Update: 26

Source: New Mexico Environment Department
Telephone: 505-476-4397
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank sites.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 06/05/2006
Number of Days to Update: 35

Source: Environment Department
Telephone: 505-476-4397
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

AST: Aboveground Storage Tanks List

Aboveground tanks that have been inspected by the State Fire Marshal.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/27/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 23

Source: Environment Department
Telephone: 505-476-4397
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

SPILLS: Spill Data

Hazardous materials spills data.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 64

Source: Environment Department
Telephone: 505-827-0166
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

INST CONTROL: Sites with Institutional Controls

Sites included in the Voluntary Cleanup listing that have Institutional Controls in place.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 48

Source: Environment Department
Telephone: 505-827-2754
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

VCP: Voluntary Remediation Program Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 48

Source: Environment Department
Telephone: 505-827-2754
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facility locations. The listing may contain facilities that are no longer there, or under different management.

Date of Government Version: 01/06/2010
Date Data Arrived at EDR: 01/07/2010
Date Made Active in Reports: 02/04/2010
Number of Days to Update: 28

Source: Environment Department
Telephone: 505-222-9507
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

BROWNFIELDS: Brownfields Site Listing

A listing of targeted brownfields assessment.

Date of Government Version: 04/01/2016
Date Data Arrived at EDR: 05/12/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 27

Source: New Mexico Environment
Telephone: 505-827-0171
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CDL: Clandestine Drug Laboratory Listing

A listing of clandestine drug labs, such as illegal methamphetamine labs.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 04/22/2014
Date Made Active in Reports: 05/20/2014
Number of Days to Update: 28

Source: Environment Department
Telephone: 505-476-6000
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: List of Discharge Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 04/01/2016	Source: Environment Department
Date Data Arrived at EDR: 04/21/2016	Telephone: 505-827-2918
Date Made Active in Reports: 06/16/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Semi-Annually

AIRS: Airs Information

A listing of facilities with Air Quality Bureau permits.

Date of Government Version: 04/18/2016	Source: New Mexico Environment Department
Date Data Arrived at EDR: 04/27/2016	Telephone: 505-476-4339
Date Made Active in Reports: 06/08/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Annually

ASBESTOS: List of Asbestos Demolition and Renovations Jobs

Asbestos is a common fibrous rock found worldwide which has been used in various products for over 4500 years. It has been used in over 3000 different products such as textiles, paper, ropes, wicks, stoves, filters, floor tiles, roofing shingles, clutch facings, water pipe, cements, fillers, felt, fireproof clothing, gaskets, battery boxes, clapboard, wallboard, fire doors, fire curtains, insulation, brake linings, etc.

Date of Government Version: 04/22/2016	Source: New Mexico Environment Department
Date Data Arrived at EDR: 04/29/2016	Telephone: 505-827-1494
Date Made Active in Reports: 06/20/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

COAL MINES 2: Coal Permit Boundaries

ESRI ArcView shapefile depicting New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 02/01/2014	Source: Mining & Minerals Division
Date Data Arrived at EDR: 03/20/2015	Telephone: 505-476-3417
Date Made Active in Reports: 04/13/2015	Last EDR Contact: 06/24/2016
Number of Days to Update: 24	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Varies

COAL MINES: Coal Mine Permits Database

New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 07/13/2012	Source: Bureau of Geology and Mineral Resources
Date Data Arrived at EDR: 12/17/2012	Telephone: 505-476-3402
Date Made Active in Reports: 01/11/2013	Last EDR Contact: 12/17/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 04/01/2013
	Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/15/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998

Date Data Arrived at EDR: 12/03/2007

Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245

Last EDR Contact: 08/05/2016

Next Scheduled EDR Contact: 11/14/2016

Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015

Date Data Arrived at EDR: 10/23/2015

Date Made Active in Reports: 02/18/2016

Number of Days to Update: 118

Source: EPA Region 8

Telephone: 303-312-6271

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015

Date Data Arrived at EDR: 10/29/2015

Date Made Active in Reports: 01/04/2016

Number of Days to Update: 67

Source: EPA Region 1

Telephone: 617-918-1313

Last EDR Contact: 07/29/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015

Date Data Arrived at EDR: 02/19/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 105

Source: EPA Region 6

Telephone: 214-665-6597

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016

Date Data Arrived at EDR: 04/29/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 35

Source: EPA Region 4

Telephone: 404-562-8677

Last EDR Contact: 07/26/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016

Date Data Arrived at EDR: 04/27/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 37

Source: EPA, Region 5

Telephone: 312-886-7439

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016

Date Data Arrived at EDR: 04/27/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 415-972-3372

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/27/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A	Source: New Mexico Environment Department
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A	Source: New Mexico Environment Department
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/16/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 199	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/03/2016	Telephone: 518-402-8651
Date Made Active in Reports: 09/09/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/14/2016	Telephone: N/A
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 06/13/2016
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Providers

Source: Office of Child Development

Telephone: 505-827-7946

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

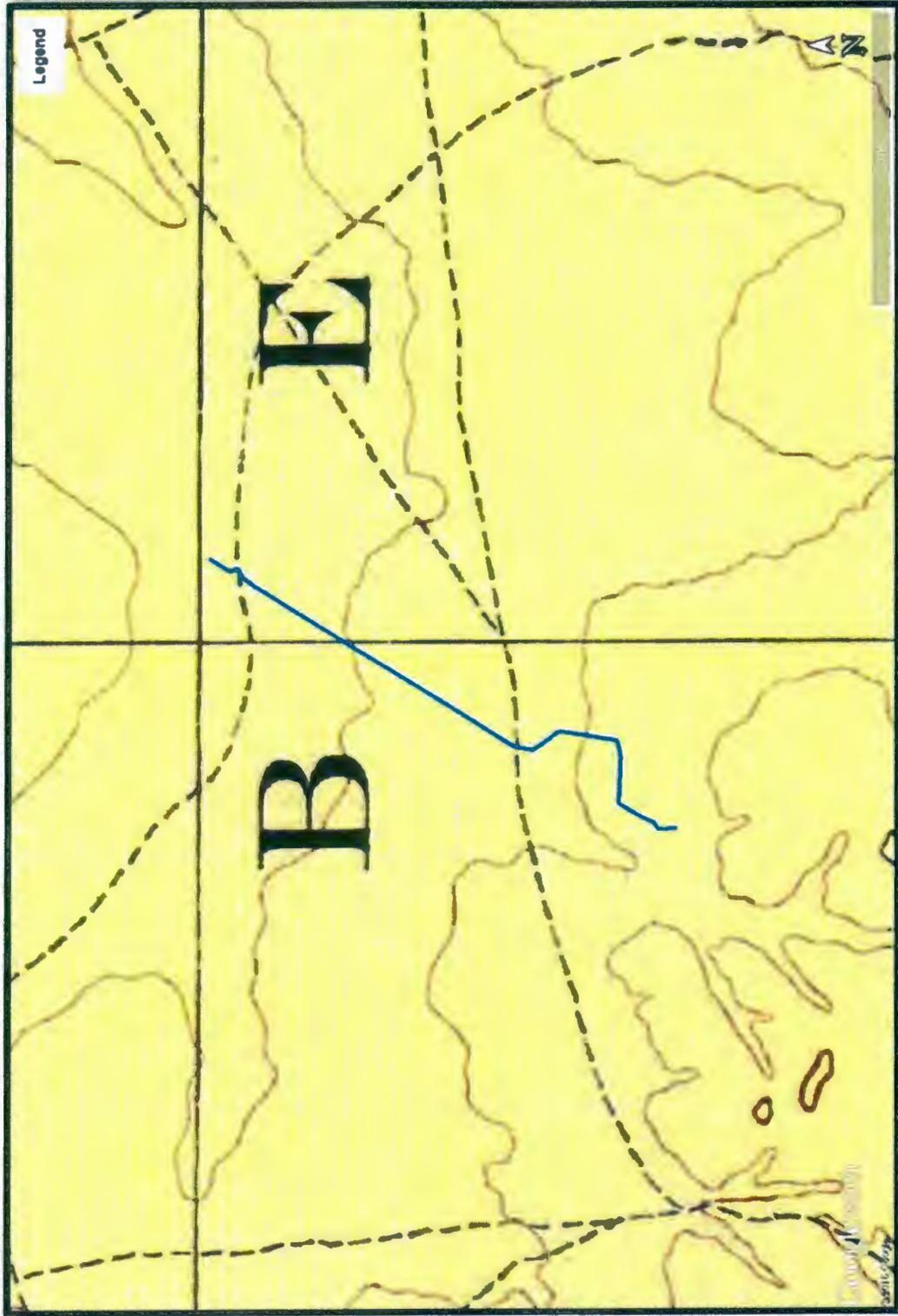
Telephone: 505-248-6660

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

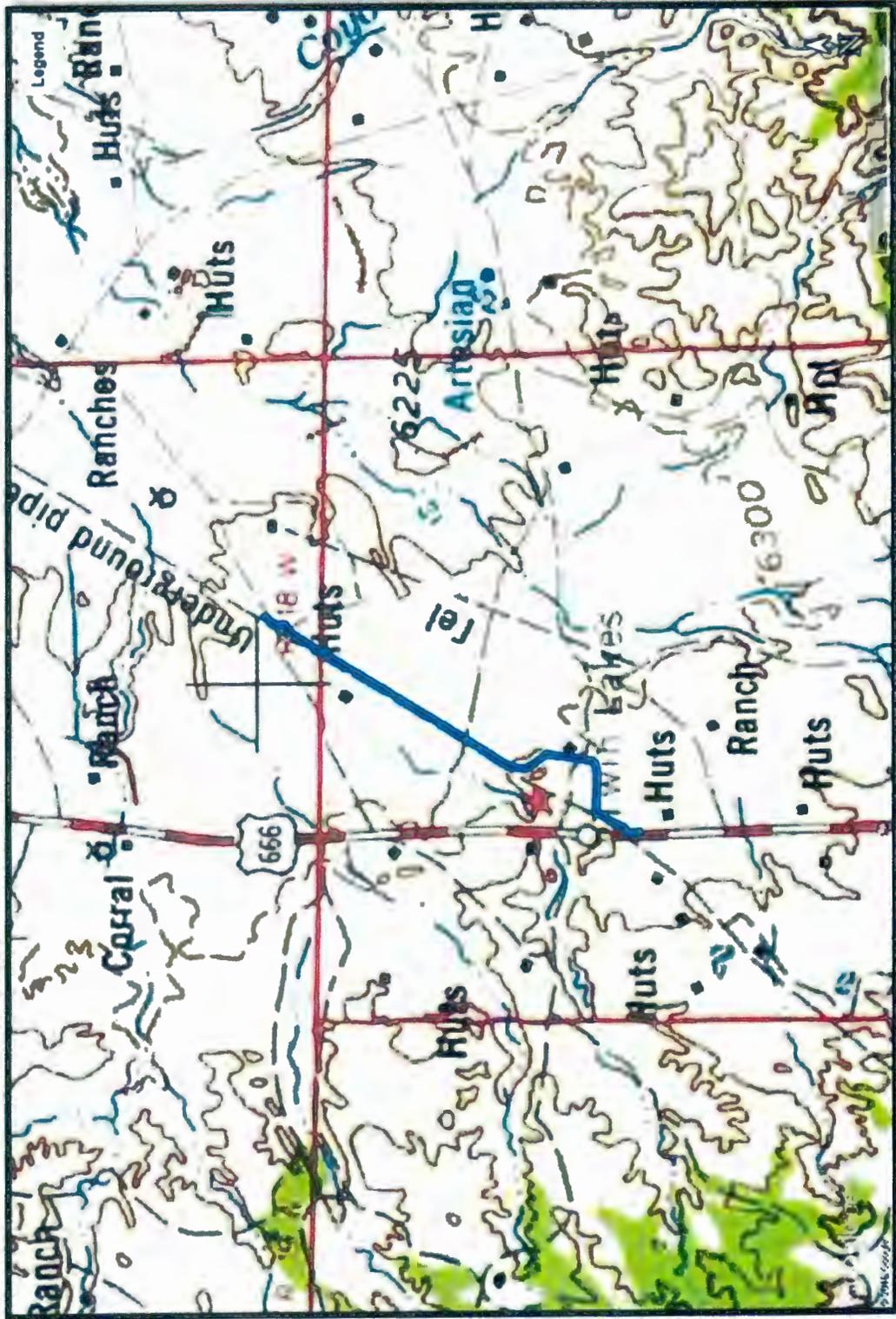
STREET AND ADDRESS INFORMATION

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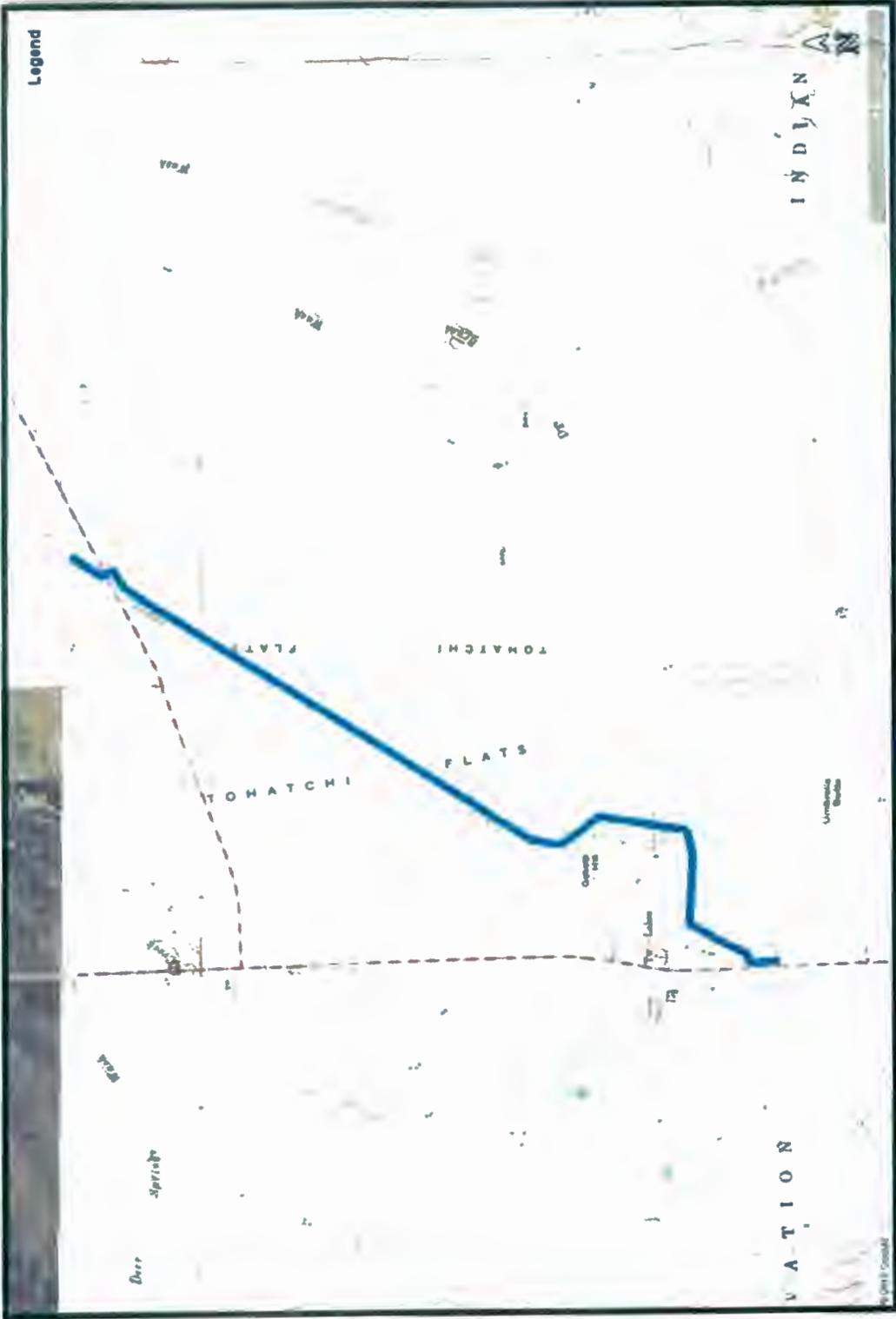
Select USGS Topographic Maps Depicting the Subject Property



1886 Wingate, New Mexico 1:250,000 Scale USGS Topographic Map



1956 Gallup, New Mexico 1:250,000 Scale USGS Topographic Map



1967 Big Rock Hill and Twin Lakes, and 1970 Chuska, NM 1:24,000 Scale USGS Topographic Map



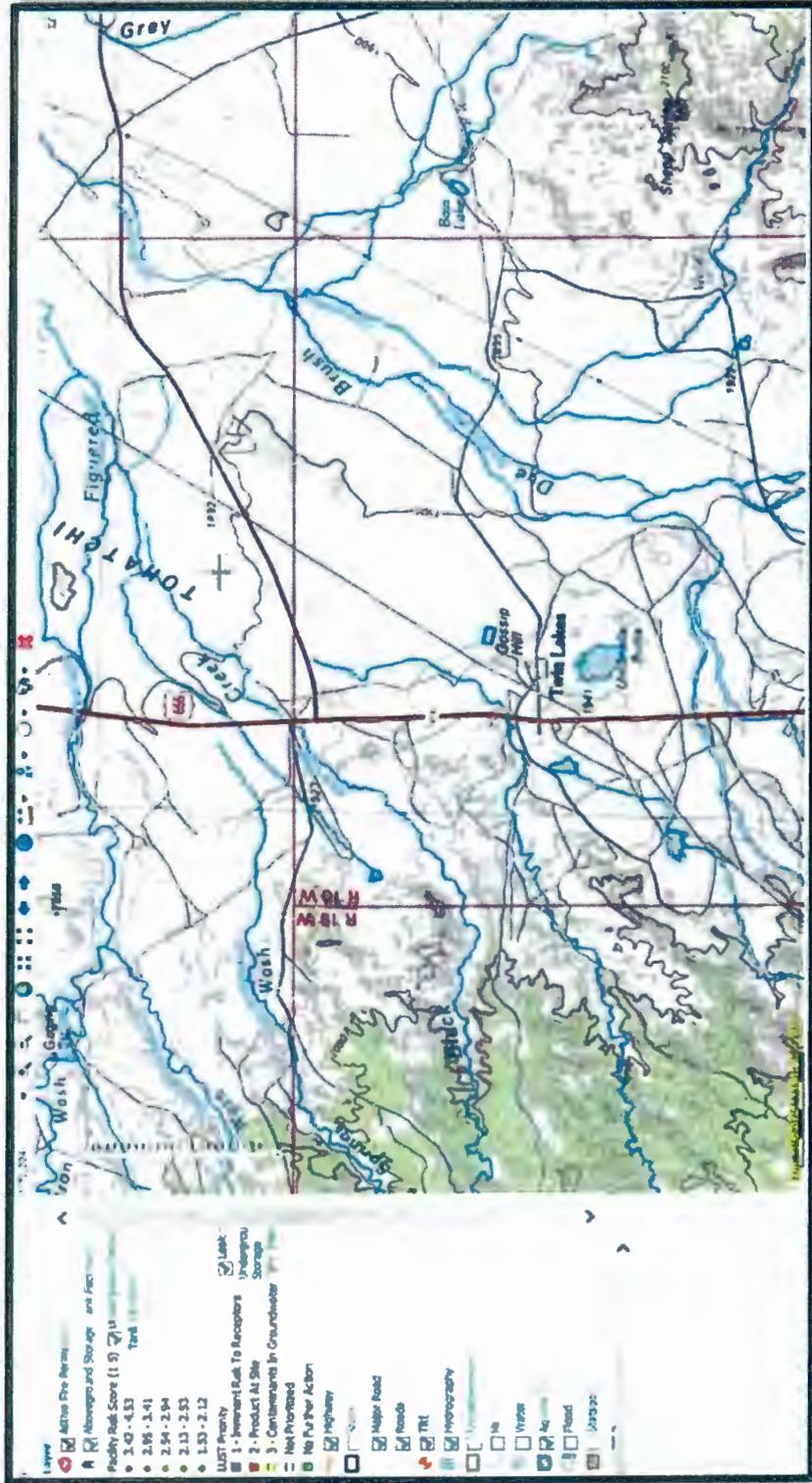
1981 Gallup, New Mexico 1:100,000 Scale USGS Topographic Map

Supplemental State Environmental Database

Mapping of the Subject Property

New Mexico Environment Department Petroleum Storage Tank Bureau, GoNM Mapper Environmental Database Application

Available at: <https://gis.web.env.nm.gov/GoNM/>. Accessed September 28, 2016.



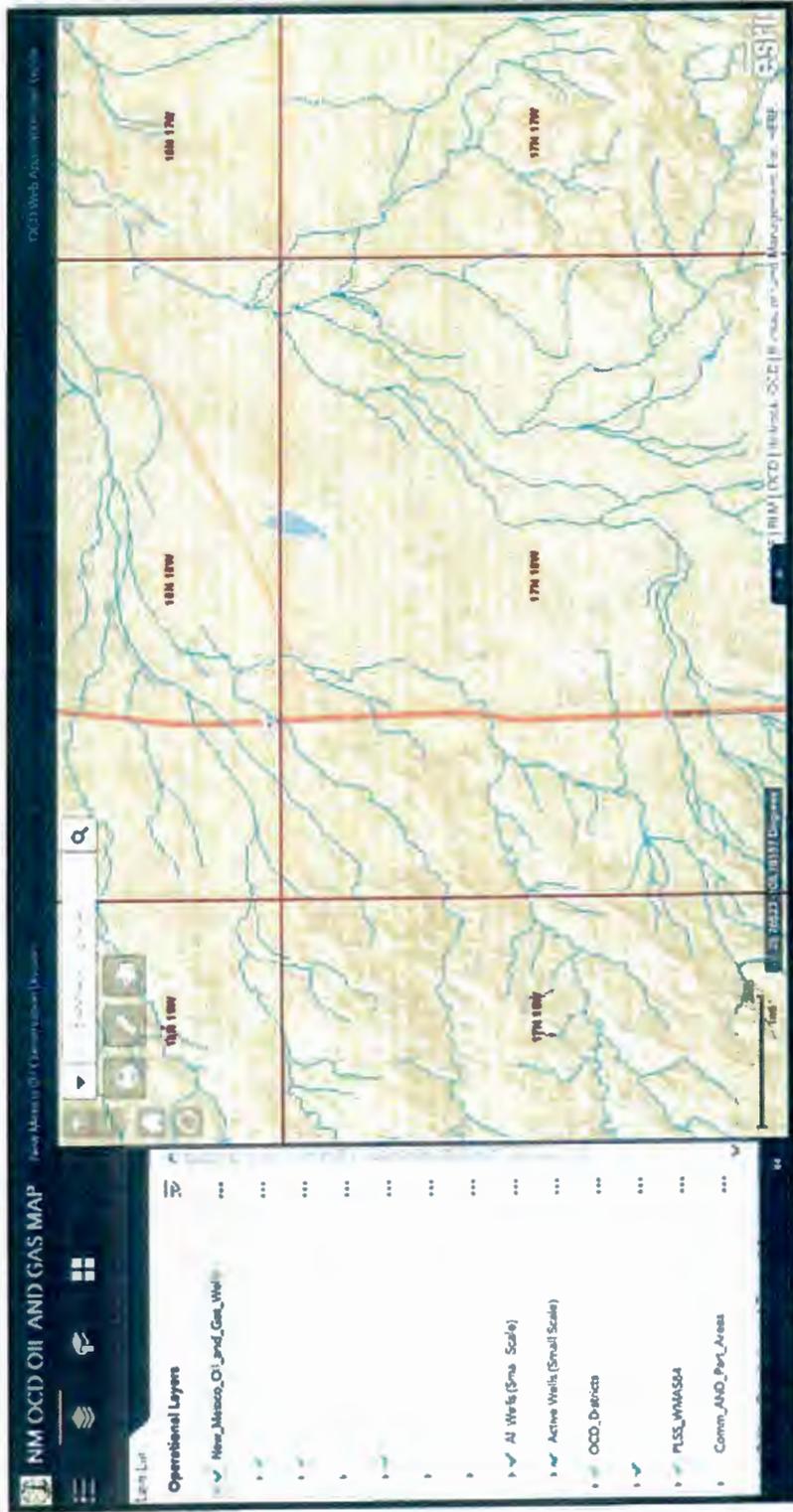
New Mexico Environment Department, EGIS Mapper Environmental Database Application

Available at: <https://gis.web.env.nm.gov/EGIS/>. Accessed September 28, 2016.



New Mexico Oil Conservation Division, Oil and Gas Mapping Application

<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4a821bdf94c448e68b86a77d0750e7cc>. Accessed September 28, 2016.



New Mexico State Land Office, Oil and Gas, Minerals Map Service

<http://landstatus.nmstatelands.org/OandG.aspx>. Accessed September 28, 2016.

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**Phase I Environmental Site
Assessment for Reach 10 of the
Navajo-Gallup Water Supply Project
in McKinley County, New Mexico**

Prepared for

U.S. Bureau of Reclamation

Prepared by

**Nelson Consulting, Inc., and
SWCA Environmental Consultants**

November 2016



**PHASE I ENVIRONMENTAL SITE ASSESSMENT FOR
REACH 10 OF THE NAVAJO-GALLUP WATER SUPPLY PROJECT
IN MCKINLEY COUNTY, NEW MEXICO**

Prepared for

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On behalf of
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Contract No. R13PC40003
Task Order No. R16PD00987

November 2016

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EXECUTIVE SUMMARY

This executive summary presents the results of a Phase I Environmental Site Assessment (Phase I ESA) for Reach 10 of the Navajo-Gallup Water Supply Project (NGWSP). Reach 10 is a 0.77-mile corridor that is 150 feet wide (the “subject property”) and runs between Reach 9 to the northeast and Reach 11 to the southwest. It is located on the Navajo Nation in McKinley County, New Mexico, approximately 3.4 miles northeast of Twin Lakes.

The subject property is entirely vacant desert land, crossed by a few two-track roads. The purpose of this Phase I ESA is to meet due diligence requirements under the Comprehensive Environmental Response, Compensation, and Liability Act as part of environmental investigations, documentation, and land acquisitions prior to construction of the NGWSP in fiscal year 2017.

The client provided a shapefile of the boundaries of the subject property, and this description was taken as an accurate and true representation of the site. Independent verification of the subject property boundaries was not conducted by SWCA Environmental Consultants (SWCA) as part of this Phase I ESA.

The following list presents selected findings of this Phase I ESA:

- SWCA’s review of historical aerial photographs and topographic maps did not identify any past uses of the subject property other than as vacant undeveloped grazing land. Adjacent property was found to have the same history, except that a natural gas pipeline runs parallel with the subject property, approximately 250 feet to the northwest. A few cattle tanks and dirt roads are also present nearby. Because the pipeline is not known to have leaked or spilled, the historical uses of the subject property and adjacent properties are not considered to be recognized environmental conditions (RECs) for the subject property.
- SWCA’s interviews with personnel from the U.S. Bureau of Reclamation, Kinder Morgan, Inc. and the Navajo Nation Water Quality & NPDES Program found that they had no knowledge of potential contamination on, adjacent to, or nearby the subject property. One person noted a nearby helium pipeline is exposed in places, and that the pipeline is wrapped or coated in asbestos-containing materials (ACM). However, this is not considered to be a REC because undisturbed ACM meets the definition of a de minimis condition, which does not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.
- SWCA’s review of the Environmental Data Resources, Inc., environmental database search generated on September 1, 2016, and supplementary searches of a GeoCheck environmental database report and New Mexico Environment Department, New Mexico Bureau of Geology and Mineral Resources, and U.S. Environmental Protection Agency databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.
- SWCA’s review of mapping from the New Mexico State Land Office and the New Mexico Oil Conservation Division did not identify any oil or gas wells on, adjacent to, or in the vicinity of the subject property.
- SWCA considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.
- SWCA’s reconnaissance of the subject property on September 14, 2016, verified that the subject property is vacant undeveloped desert land surrounded by vacant undeveloped land in all directions, except for a parallel natural gas pipeline 250 feet to the northwest. The following observations were made:

- A 2.5-acre stock pond was observed adjacent to the southeast of the corridor. A seeping spring was present 400 feet northwest of the corridor. No sheen was evident on the water surface of either feature.
- Farther north, a natural gas valve station was present in a small fenced and locked area 230 feet northwest of the subject property. Just west of the fenced area were two large vertical corrugated pipes with covers, as would be present for accessing underground infrastructure. Because no unusual odors, soil stains or other evidence of potential contamination was observed in these areas, they are not considered to be RECs for the subject property.
- Near the northern terminus of Reach 10, there was a small pile of rocks 620 feet to the northwest, with small amounts of inert debris such as metal scraps scattered throughout. Because no unusual odors, soil stains, or other evidence of potential contamination was observed in this area, it is not considered to be a REC for the subject property.
- No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

SWCA has completed a Phase I ESA of the subject property based on information obtained during the site investigations conducted on September 14, 2016, and the information obtained through the activities of this Phase I ESA, excluding the limitations.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of Reach 10 of the NGWSP, in McKinley County, New Mexico, the *property*. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (Phase I ESA) for Reach 10 of the Navajo-Gallup Water Supply Project (NGWSP). Reach 10 is a 0.77-mile corridor that is 150 feet wide (the "subject property") and runs between Reach 9 to the northeast and Reach 11 to the southwest. It is located on the Navajo Nation in McKinley County, New Mexico, approximately 3.4 miles northeast of Twin Lakes. Nelson Consulting, Inc., and SWCA Environmental Consultants (SWCA) completed this Phase I ESA for the U.S. Bureau of Reclamation, in accordance with the August 19, 2016, proposed scope of work. A copy of the scope of work is included in Appendix A.

1.1 Purpose

The purpose of this Phase I ESA is to meet due diligence requirements under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as part of environmental investigations, documentation, and land acquisitions prior to construction of the NGWSP in fiscal year 2017. The NGWSP is a major infrastructure project that, once constructed, will convey a reliable municipal and industrial water supply from the San Juan River to the eastern section of the Navajo Nation, the southwestern portion of the Jicarilla Apache Nation, and the city of Gallup, New Mexico, by means of about 280 miles of pipeline, several pumping plants, and two water treatment plants. The project was authorized for construction by the Omnibus Public Lands Management Act of 2009 (Public Law 111-11) on March 30, 2009, as a major component of the Navajo Nation San Juan River Basin Water Rights Settlement in New Mexico (U.S. Bureau of Reclamation 2016).

The Phase I ESA was completed in general accordance with the standards described in the American Society for Testing and Materials (ASTM) Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM 2013) and with the guidance provided in 40 Code of Federal Regulations (CFR) 312, 33 CFR 137, CERCLA, the Oil Pollution Act of 1990, and other applicable guidance, ensuring that the report is consistent with accepted professional standards. Deletions or deviations from ASTM Standard E 1527-13 are documented in this report.

The goal of the processes established by ASTM Standard E 1527-13 is to assess the property, to the extent practical, for the potential presence of recognized environmental conditions (RECs), defined in the ASTM standard as "the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*." De minimis conditions, which generally do not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies, are not RECs.

This Phase I ESA did not include activities such as inspections or sampling for the presence of asbestos-containing materials, radon, other radioactive substances, vapor intrusion, lead-based paint, non-hazardous wastes and materials, mold, or biological and medical wastes. No soil, air, or water samples were collected for this Phase I ESA.

1.2 Scope of Work

To achieve the objective referenced above, SWCA completed the following tasks. A copy of the scope of work is included in Appendix A.

- Reviewed intermittent topographic maps and/or aerial photographs.

- Surveyed relevant documents in order to assess the subject property's physiography, including a review of the local hydrogeology and geology of the surrounding area.
- Interviewed persons knowledgeable about the history of the property and vicinity.
- Reviewed applicable federal and state regulatory databases.
- Visually observed the subject property by walking on and driving around the subject property and visually observed the surrounding properties from the subject property perimeter.

1.3 Limitations

SWCA warrants that qualified professionals in conformance with ethical business practices and industry standards prepared this report. Credentials of the individuals involved in preparing this report are included in Appendix B.

Some standard historical sources are not readily available and thus were not used to prepare this Phase I ESA. Based on our professional experience with similar historically undeveloped rural properties, Sanborn fire insurance maps were assumed to not be available for the subject property. A city directory search was not conducted for the subject property because it is thought to never have been developed and does not have a street address. SWCA was not provided with recorded land-title records or judicial records of environmental liens and activity and use limitations (AULs). Because of the lack of available aerial photographs and U.S. Geological Survey (USGS) topographic maps, the commonly used 5-year interval between photographs and topographic dates could not be followed for all photographs and maps reviewed. Standard historical sources dating back to 1940 were not reasonably attainable for the subject property. Because supplemental data sources provided sufficient information, this gap in the data is not thought to have affected SWCA's ability to identify RECs on the subject property. SWCA's findings and conclusions within this assessment do not take into consideration the limitations identified in this report.

The information contained in this report relates only to the subject property and should not be extrapolated or construed to apply to any other site. The description of the subject property as provided herein represents the conditions of the subject property as it existed on the date of the site reconnaissance. The contents of this report are valid as of the date shown on the report cover. The information presented in this report is intended for the exclusive use of the U.S. Bureau of Reclamation and its affiliates, underwriters, and lenders. Reliance of any other parties on the information presented herein is the sole responsibility of said parties.

2.0 PROPERTY DESCRIPTION

The subject property is Reach 10 of the NGWSP. Reach 10 is a 0.77-mile corridor that is 150 feet wide and runs between Reach 9 to the northeast and Reach 11 to the southwest. It is tribal land located on the Navajo Nation in McKinley County, New Mexico, approximately 3.4 miles northeast of Twin Lakes. It runs through portions of Sections 26, 27, and 34, Township 18 North, Range 18 West.

The subject property is entirely vacant desert land, crossed by a few two-track roads (Figure 1). Adjacent property is similarly undeveloped and vacant, except for a KMI Liquids pipeline approximately 250 feet to the northwest that runs roughly parallel to the subject property corridor. The subject property is depicted in Figures 1 and 2.



Figure 2. Subject property and surrounding properties.

3.0 PHYSICAL SETTING ANALYSIS

The following sections present physical characteristics of the subject property, as obtained from available natural history information sources.

3.1 Topography

The USGS Chuska Lake and Big Rock Hill, New Mexico, 7.5-minute quadrangles and Gallup, New Mexico, 1 × 2 series topographic map indicate that the subject property lies within the Tohatchi Flats, an alluvial/valley fill slope between the Chuska Mountains and Defiance Plateau to the northwest, and Big Rock Hill to the southeast. The subject property appears to slope toward the northeast and east, toward Figueredo Wash, which terminates in the alluvium/valley fill approximately 9 miles to the northeast. The greater vicinity drains centrally toward Mexican Wash and other parallel washes that flow northeast. On a larger scale, the Tohatchi Flats are within the upper reaches of the Chaco River basin, which drains to the north. The subject property ranges in elevation from approximately 6,180 feet above mean sea level (amsl) in the northeast to 6,215 feet amsl in the southwest.

3.2 Soils

A review of soils data from the Natural Resources Conservation Service (NRCS) (2016a) indicates that the majority of the subject property is mapped as Redlands-Shiprock Families complex soils, 1 to 8 percent slopes (Appendix C). The northeastern 900 feet of the subject property corridor is mapped as Jeddito loamy fine sand, 0 to 5 percent slopes.

The Redlands series consists of very deep, well-drained soils that formed in eolian material and alluvium derived from sandstone and shale. Redlands soils are found on fan remnants, mesas, and structural benches. They formed in Quaternary eolian material loess deposits weathered from Triassic age redbeds. They exhibit low surface runoff and moderate permeability. Redlands soils are often used for livestock grazing. Typical vegetation is galleta, bottlebrush squirreltail, Indian ricegrass, alkali sacaton, fourwing saltbush, and winterfat.

The Shiprock series consists of very deep, well-drained and somewhat excessively drained, moderately rapidly permeable soils that formed in eolian material and alluvium, fan alluvium, and slope alluvium derived from sandstone and shale on summits of mesas, and plateaus, cuernas, fan remnants, and fan terraces on valley sides and side slopes of hills. They exhibit very low to low runoff and moderately rapid permeability. These soils are often used for livestock grazing and irrigated farmland. Typical vegetation is blue grama, galleta, Indian ricegrass, sand dropseed, and Mormon tea. Irrigated crops are alfalfa, corn, sorghum, pasture, and apples.

The Jeddito series consists of very deep, somewhat excessively drained stratified soils that formed in stream alluvium. They are on nearly level to gently sloping stream terraces. They exhibit slow runoff and slow permeability in thin lenses of fine material. Area with these soils are often used for livestock grazing and for limited dryland farming. Typical vegetation includes Indian ricegrass, galleta, blue grama, fourwing saltbush, winterfat, greasewood, saltgrass, and shadscale in Utah (NRCS 2016b).

3.3 Geology and Hydrogeology

The vicinity of the subject property drains northeast towards Figueredo Wash, which terminates in the alluvium/valley fill approximately 9 miles northeast of the subject property. The greater vicinity of the subject property drains northeast, then north along the Chaco River corridor. It is assumed that groundwater

follows this general path. The Chaco River leads north to the San Juan River near Shiprock, which flows west and joins the Colorado River at Lake Powell.

The San Juan River Basin is a geologic structural basin in the Four Corners region that covers around 4,600 square miles, encompassing much of northwestern New Mexico, southwest Colorado, and parts of Arizona and Utah. The region is arid, with rugged topography of plains and valleys interspersed by buttes, canyons, and mesas. Its most striking features include Chaco Canyon and Chacra Mesa (New Mexico Water Quality Control Commission 2004). The San Juan structural basin is a large downwarp of sedimentary rocks of mostly Mesozoic age. As a geologic region, the San Juan Basin is noted for its large deposits of coal, uranium, and natural gas (U.S. Forest Service 1994).

The subject property is also located in the Colorado Plateau physiographic region, which extends into the northwestern section of the state of New Mexico and forms the major portion of the San Juan River Basin. The area of the subject property is generally characterized by horizontal sedimentary rocks carved into a gentle relief of broad mesas and valleys, buttes, plateaus, and canyons. The area is termed the Navajo and Canyon Lands section of the Colorado Plateau province. Geomorphic processes active in the Navajo Canyonlands are deep canyon formations resulting from plateau dissection. Volcanic mountains exist, but block-fault structural mountain ranges do not. The lithology and stratigraphy of the Navajo Canyonlands includes Cretaceous, Jurassic, and Triassic sedimentary rocks, with some Quaternary and upper Tertiary sedimentary deposits and valley fills (U.S. Forest Service 1994).

USGS online spatial mineral resources data indicate that the surface geology of subject property is mapped as the Menefee Formation (Phanerozoic | Mesozoic | Cretaceous age). This formation is coal-bearing mudstone, shale, and sandstone. The primary rock type is fine-grained mixed clastic, and other rock types are coal and limestone (USGS 2016a).

Point of Diversion data from the New Mexico Office of the State Engineer (2014) did not identify any water wells within 1 mile of the subject property. Depth to water data for the area were not readily available. Topographic mapping depicts one windmill 0.65 mile northeast of the subject property, but details of a well that would have been associated with the windmill are not known.

4.0 HISTORICAL PROPERTY USES AND RECORDS REVIEW

The history of the subject property and adjacent properties was reviewed in accordance with the applicable ASTM standards, except as noted in Section 1.3. Historical uses of the subject property were determined based on a review of readily available, reasonably ascertainable historical data, including historical topographic maps and aerial photographs. Based on our professional experience with similar historically undeveloped rural properties, Sanborn fire insurance maps were assumed to not be available for the subject property. A city directory search was not conducted for the subject property because it is thought to never have been developed and does not have a street address.

4.1 Historical Map Review

SWCA reviewed USGS topographic maps of the area dated between 1886 and 2013. Environmental Data Resources, Inc. (EDR), provided the 1970 and 2013 Chuska, New Mexico, maps (Appendix D); SWCA obtained the remainder from the USGS National Geologic Map Database (USGS 2016b). A summary of SWCA's evaluation of the reviewed topographic maps is provided in Table 1.

Table 1. Summary of Historical Topographic Map Interpretation

Date of Topographic Map	Observations
1886, 1892, 1898, 1916, 1937 Wingate, New Mexico 1:250,000	During this period, the subject property and vicinity is depicted as vacant and undeveloped ranching land with a few unimproved interconnected trails. No roads or structures are depicted in the vicinity. A few windmills, cattle tanks, and dirt roads are present in the vicinity.
1958, 1959, 1962 Gallup, New Mexico 1:250,000	The subject property remained undeveloped in 1958, but by then, the parallel pipeline was present to the northwest. Navajo Service Route 9 was present as a dirt road, U.S. Route 491 was present (then named U.S. Route 666), and a windmill was depicted 1.25 miles northeast. Adjacent properties are depicted as vacant, but sparse huts and ranches are present in the greater vicinity.
1967 Big Rock Hill and 1970 Chuska Lake, New Mexico 1:24,000	The 1967 map depicts Navajo Service Route 9 as an improved road. The 1970 map depicts a dirt road along the pipeline corridor and another crossing the subject property. A cattle tank is depicted in its current location to the southeast, but adjacent properties and the vicinity remained vacant and undeveloped.
1981 Gallup, New Mexico 1:100,000	In this map, the subject property does not appear to have changed at all from the previous map.
2013 Chuska Lake, New Mexico 1:24,000	The subject property and surrounding area do not appear to have changed significantly from the previous maps.

4.2 Historical Aerial Photograph Review

SWCA reviewed available historical aerial photographs of the subject property dating from 1952 to 2014. A summary of SWCA's evaluation of the reviewed aerial photography is provided in Table 2.

Table 2. Summary of Historical Aerial Photograph Interpretation

Date of Aerial Photograph	Observations
1952, 1969 EDR Aerial Photographs 1" = 500' and 1" = 750'	In 1952, the subject property and surrounding properties appear to be vacant and undeveloped, except the pipeline corridor is evident to the northwest and a few dirt paths in the area. A cattle tank is present to the southeast. Navajo Service Road 9 is visible to the south. Little appears to have changed in 1969.
1975 EDR Aerial Photograph 1" = 750'	The resolution of this photograph is insufficient for detailed review.
1997, 2004 Google Earth Aerial Photographs Variable scales	No significant changes are evident on the subject property and surrounding area in the 1997 photograph. A cattle tank, possibly filled by an adjacent windmill, is present west of the subject property where a spring exists today. No significant changes are evident in the 2004 photograph, but a windmill was not present at that time.
2005 Google Earth Aerial Photograph Variable scales	In this photograph, the subject property and surrounding land do not appear to have changed significantly from the previous photograph, except that what is now known to be a natural gas valve station was present along the pipeline corridor and what was identified as a pile of rocks was present west of the northern Reach 10 terminus.
2009, 2011, 2012, 2014 Google Earth Aerial Photographs Variable scales	No significant changes are evident on or adjacent to the subject property during this period.

4.3 Adjacent Properties

Adjacent properties have historically been undeveloped, except for the gas pipeline adjacent to the west that was installed sometime prior to 1952, and a few cattle tanks and dirt roads. Photographs of the subject property and surrounding areas are provided in Appendix E.

4.4 Previous Phase I ESA Reports

The client provided SWCA with a January 14, 2016, environmental database report prepared by GeoSearch. Data from the GeoSearch report have been integrated into Section 5.1 below. SWCA was not provided with and is not aware of previous Phase I ESA reports or other relevant environmental reports for review.

4.5 Interviews

SWCA interviewed MRutheyi Thompson, of the U.S. Bureau of Reclamation, on October 6, 2016. She noted that she was not aware of any cause for concern along Reach 10. She noted that there is a solar-powered pump station near the north end of the reach.

SWCA prepared a questionnaire regarding the subject property, adapted from the interview worksheet in Environmental Compliance Memorandum No. ECM 10-2, Pre-Acquisition Environmental Assessment Guidance for Federal Land Transactions (U.S. Department of the Interior 2010). The questionnaire was completed by Ryan Gladden, of the U.S. Bureau of Reclamation, on September 26, 2016. He indicated that Kinder Morgan's pipelines are high-pressure natural gas lines, and he was uncertain whether they deal with petroleum products within the reaches of the NGWSP. He thought that some of the pipelines may be 40 or 50 years old. He did not know of any spills, leaks, or cleanups of hazardous substances, petroleum products, or other potential environmental problems along the reaches or on adjacent or nearby properties. He had not seen any evidence of livestock dip vats, and did not know whether any ever existed within any reaches. He did not know of any fill material that had been brought onto the subject property that originated from a contaminated site or that was of an unknown origin. He was not aware of any environmental liens or environmental activity and land use limitations against the subject property.

SWCA spoke with Larry Macias, an Operations Manager for KMI, on November 9, 2016. He was familiar with the history of the local pipelines and infrastructure. He stated that he was not aware of any leaks, spills, or known contamination related to any of their pipelines in the area. He noted that if pipelines are exposed where they cross washes, it should not be a concern because they are solid pipelines and the soil is sandy; there are no moving rocks or boulders to potentially damage the pipelines.

SWCA also spoke with Patrick Antonio, of the Navajo Nation Water Quality & NPDES Program on November 18, 2016. He discussed several of the reaches with SWCA and was not aware of any significant environmental concerns related to contamination along the Reach 10 corridor.

A Phase I ESA User Questionnaire for the subject property was completed by Gary Vance, of the U.S. Bureau of Reclamation, on October 3, 2016. The questionnaire answers applied to Reaches 9, 10, 11, and 12.2 of the NGWSP. He stated that a search of recorded land-title records had not been completed for these reaches. He noted that he was not aware of the past uses of the reaches or any spills, releases, or environmental cleanups that had taken place on these reaches. He did note that a helium pipeline is exposed in places between Gallup and Shiprock, New Mexico, and that the pipeline is wrapped or coated in asbestos-containing materials (ACM). Documentation of the above correspondence is provided in Appendix F.

5.0 ENVIRONMENTAL REGULATORY REVIEW

SWCA conducted an environmental regulatory review to establish the environmental history of the subject property and surrounding area to ascertain whether hazardous waste or hazardous material management, handling, treatment, or disposal activities have occurred on or near the subject property.

5.1 Federal and State Environmental Records

An environmental database report generated by EDR on September 1, 2016, was used to access environmental records for a 1-mile buffer around the subject property. The databases searched by EDR include those specified by ASTM Standard E 1527-13, as well as several additional federal and state databases and databases proprietary to EDR. ASTM's standard search distances were followed, as detailed in Table 3. EDR updates its records in accordance with ASTM Standard E 1527-13 guidelines. Additional listed facilities that EDR has not identified may exist within the 1-mile radius. EDR's environmental database report did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.

Table 3. Approximate Minimum Search Distances

Record Sources	Approximate Minimum Search Distance (miles)
Federal Databases	
National Priorities List (NPL)	1.0
Delisted NPL	0.5
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) / CERCLIS No Further Remedial Action Planned (NFRAP) sites	0.5
Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) facilities	1.0
RCRA non-CORRACTS Treatment Storage and Disposal facilities	0.5
RCRA generators list	Property and adjoining
Institutional control/engineering control registries	Property only
Emergency Response Notification System (ERNS)	Property only
State and Tribal Databases	
NPL	1.0
CERCLIS	0.5
Landfill and/or solid waste disposal site lists	0.5
Leaking storage tank lists	0.5
Registered storage tank lists	Property and adjoining
Institutional control / engineering control registries	Property only
Voluntary cleanup sites	0.5
State and tribal Brownfield sites	0.5

Source: ASTM (2013).

SWCA supplemented the EDR database search with reviews of:

- An environmental database report completed by GeoSearch (2016) on January 14, 2016, that was provided by the client;
- the New Mexico Environment Department's (NMED's) Ground Water Quality Bureau (GWQB) Mapping Application, EGIS Mapping Application, Petroleum Storage Tank Bureau GoNM Mapping Application, and Source Water Protection Atlas (SWPA) Mapping Application (NMED 2016a, 2016b, 2016c, 2016d);

- the New Mexico Bureau of Geology and Mineral Resources (2016) interactive GIS mapping application; and
- the U.S. Environmental Protection Agency's (EPA's) Envirofacts database (EPA 2016), to search additional federal databases.

The NMED's GWQB and EGIS applications include data for abatement sites, brownfields, hazardous waste facilities, underground storage tank (UST) and leaking UST (LUST) facilities, landfills and solid-waste facilities, and voluntary remediation sites. The GoNM application includes aboveground storage tank, UST, and LUST facilities; and data from the EPA's Toxics Release Inventory. The SWPA application includes much of the above, plus petroleum pools, uranium and asbestos deposits and mines, and other data layers. The EPA Envirofacts database includes data from the Resource Conservation and Recovery Act Information (RCRAInfo) database, which collects information for all generators, transporters, treaters, storers, and disposers of hazardous waste. SWCA's search of these supplemental databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property. A copy of the EDR report and supplemental database records is included in Appendix D.

In addition to the sites/facilities listed in the EDR database report, EDR provides a list of sites or facilities that are listed in one or more regulatory agency databases but could not be mapped because of incomplete address or location information. The EDR report did not identify any such sites.

SWCA also considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.

5.2 Oil and Gas Wells

SWCA reviewed mapping from the New Mexico State Land Office (2016) and the New Mexico Oil Conservation Division (2016) to identify oil and gas wells on and near the subject property. These sources did not identify any oil and gas wells on or in the vicinity of the subject property.

6.0 PROPERTY RECONNAISSANCE

Noel Tamboer of Nelson Consulting, Inc., and Eilene Lyon of SWCA completed the Phase I ESA site investigation for the subject property on September 14, 2016. The subject property was observed by driving to and walking on the subject property. Details from that conversation have been integrated into the description below, and photographs taken during the property reconnaissance are included in Appendix E.

6.1 Property Inspection

The subject property is vacant undeveloped desert land surrounded by vacant undeveloped land in all directions, except for a parallel natural gas pipeline 250 feet to the northwest. Upon arrival at the southernmost end of Reach 10, conditions were partly sunny and breezy, dry, and approximately 75 degrees Fahrenheit. Reach 10 was observed from south to north, and the subject property and adjacent property are further described below. All distances are approximate.

A 2.5-acre stock pond was observed adjacent to the southeast of the corridor. It contained water, and no sheen was evident on the water surface. A seeping spring was present 400 feet northwest of the corridor. No sheen was evident on the water surface, and horses were drinking from the spring. The corridor of Reach 10 crosses a two-track dirt road at this point.

Farther north, a natural gas valve station was present in a small fenced and locked area 230 feet northwest of the subject property. Just west of the fenced area were two large vertical corrugated pipes with covers, as would be present for accessing underground infrastructure. No unusual odors, soil stains, or other evidence of potential contamination was observed in these areas. This station and other signage indicate that a natural gas pipeline runs parallel to the subject property 250 feet to the northwest.

Near the northern terminus of Reach 10, there was a small pile of rocks 620 feet to the northwest, with small amounts of inert debris such as metal scraps scattered throughout. No unusual odors, soil stains, or other evidence of potential contamination was observed in this area.

No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

7.0 PHASE I ESA FINDINGS

The following list presents selected findings of this Phase I ESA:

- SWCA's review of historical aerial photographs and topographic maps did not identify any past uses of the subject property other than as vacant undeveloped grazing land. Adjacent property was found to have the same history, except that a natural gas pipeline runs parallel with the subject property, approximately 250 feet to the northwest. A few cattle tanks and dirt roads are also present nearby. Because the pipeline is not known to have leaked or spilled, the historical uses of the subject property and adjacent properties are not considered to be RECs for the subject property.
- SWCA's interviews with personnel from the U.S. Bureau of Reclamation, Kinder Morgan, Inc. and the Navajo Nation Water Quality & NPDES Program found that they had no knowledge of potential contamination on, adjacent to, or nearby the subject property. One person noted a nearby helium pipeline is exposed in places, and that the pipeline is wrapped or coated in ACM. However, this is not considered to be a REC because undisturbed ACM meets the definition of a de minimis condition, which does not present risks of harm to public health or the environment and which generally would not be the subject of enforcement actions if brought to the attention of appropriate regulating agencies.
- SWCA's review of the EDR environmental database search generated on September 1, 2016, and supplementary searches of a GeoCheck environmental database report and NMED, New Mexico Bureau of Geology and Mineral Resources, and EPA databases did not identify any relevant listings on, adjacent to, or in the vicinity of the subject property.
- SWCA's review of mapping from the New Mexico State Land Office and the New Mexico Oil Conservation Division did not identify any oil or gas wells on, adjacent to, or in the vicinity of the subject property.
- SWCA considered the potential for subsurface contaminant vapor migration; however, SWCA did not identify any potential off-site sources of vapor intrusion or vapor encroachment to the subject property.
- SWCA's reconnaissance of the subject property on September 14, 2016, verified that the subject property is vacant undeveloped desert land surrounded by vacant undeveloped land in all directions, except for a parallel natural gas pipeline 250 feet to the northwest. The following observations were made:
 - A 2.5-acre stock pond was observed adjacent to the southeast of the corridor. A seeping spring was present 400 feet northwest of the corridor. No sheen was evident on the water surface of either feature.

- Farther north, a natural gas valve station was present in a small fenced and locked area 230 feet northwest of the subject property. Just west of the fenced area were two large vertical corrugated pipes with covers, as would be present for accessing underground infrastructure. Because no unusual odors, soil stains or other evidence of potential contamination was observed in these areas, they are not considered to be RECs for the subject property.
- Near the northern terminus of Reach 10, there was a small pile of rocks 620 feet to the northwest, with small amounts of inert debris such as metal scraps scattered throughout. Because no unusual odors, soil stains, or other evidence of potential contamination was observed in this area, it is not considered to be a REC for the subject property.
- No evidence of spills, staining, unusual odors, or potential sources of contamination was observed on or adjacent to the subject property during the site visit.

8.0 PHASE I ESA CONCLUSIONS

SWCA has completed a Phase I ESA of the subject property based on information obtained during the site investigations conducted on September 14, 2016, and the information obtained through the activities of this Phase I ESA, excluding the limitations.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of Reach 10 of the NGWSP, in McKinley County, New Mexico, the *property*. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the *property*.

9.0 LITERATURE CITED

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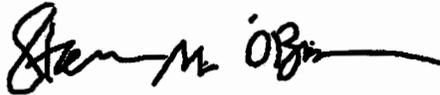
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———. 2016b. National Geologic Map Database, TopoView Interactive Mapping Application. Available at: <http://ngmdb.usgs.gov/maps/Topoview/viewer/#4/40.00/-100.00>. Accessed September 23, 2016.

10.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

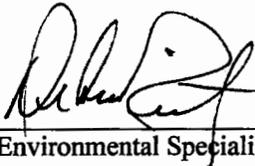
We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312. Our qualifications are presented in Appendix B of this report.



Steven M. O'Brien
Environmental Specialist / Environmental Professional

November 14, 2016

Date

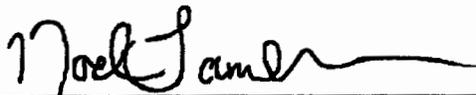


Environmental Specialist / Environmental Professional

November 14, 2016

Date

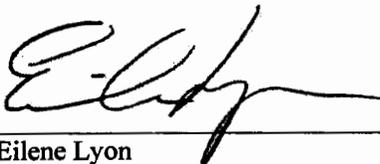
Fieldwork and reporting support was conducted in conformance with ethical business practices and industry standards by staff with the education, training, and experience to assess a property of the nature, history, and setting of the site. Fieldwork was conducted under the direction of the Environmental Professionals.



Noel Tamboer
Natural Resources Specialist

November 14, 2016

Date



Eilene Lyon
Natural Resources Specialist

November 14, 2016

Date

APPENDIX A
Phase I ESA Proposal

NAVAJO GALLUP WATER SUPPLY PROJECT

ENVIRONMENTAL SERVICES

REACH 10 PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

TASK ORDER No.

CONTRACT No. R13PC40003/4

SECTION C – DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

General

Reach 10 of the NGWSP is continuing environmental investigations, documentation and land acquisitions prior to construction scheduled for mid FY2017. The segment known as Reach 10 of the NGWSP is approximately 1 mile in length and traverses McKinley County, NM north of Navajo Service Route 9. Reach 10 begins just north of Black Creek and 0.3 miles south of Figuerdo Wash along the EPNG/Kinder Morgan underground pipeline route northeast of Twin Lakes in McKinley County, New Mexico. The alignment runs in a south-southwesterly direction for about a mile adjacent to the EPNG/Kinder Morgan alignment, until it reaches the north side of Navajo Service Route 9, where Reach 10 alignment ends. Among the environmental studies and documentation required for NGWSP Reach 10 is a Phase I Environmental Site Assessment (Phase 1). The purpose of this Task Order (TO) is to request preparation of a Phase 1 satisfactory to requirements from Regional Reclamation staff.

Qualifications

The contractor shall provide a qualified Environmental Professional (EP) with qualifications meeting or exceeding the requirements found in 40 CFR 312 and 33 CFR 137. Any portions of the work, as allowed by the current version of ASTM E1527, not carried out by the qualified EP must be done under the supervision of the qualified, approved, signatory EP.

The work shall be conducted consistent with accepted professional standards, guidance provided by Reclamation and other governance practices such as, but not exclusively limited to:

- ASTM E1527-13 or most current E1527 standard
- 40 CFR 312
- 33 CFR 137
- CERCLA, OPA and all other related applicable environmental laws and regulations enforceable by federal, state, tribal and/or local governments.

Tasks

Conduct a Phase 1: Per the above standards, including the contractor shall conduct a Phase 1 satisfactory to Reclamation requirements.

Deliverables

The contractor shall prepare and provide a Phase 1 Report for Reach 10. The contractor shall deliver an electronic copy for internal Reclamation review; it shall be considered a draft report. Reclamation shall conduct internal review and provide comments back to the contractor. The contractor shall address all comments provided by Reclamation and provide a final draft report. Once accepted by Reclamation, the contractor shall provide Reclamation with three (3) hard paper copies with ink signatures from the qualified, approved EP of the finalized Revision report and an electronic file format copy, either transmitted by CD/DVD media or internet/email distribution.

Schedule

Reclamation shall provide the contractor within five (5) business days all information the contractor requests to conduct this work, including but not limited to: contact information for allottee and private landowners, contact information for utility and Oil & Gas companies, contact information for federal and tribal agencies, internal documents of research into environmental records, detailed proposed pipeline alignment and associated land status information (maps and/or GIS/GPS files), copies of pertinent to Reach 10

Right of Entry Permits and Chapter Resolutions, and internal memos/meeting notes of comments on the concerns/needs from the Regional Lands and Environmental Divisions. The contractor shall request within two (2) business days after award any additional documents or information needed from Reclamation to perform the work of this TO.

The contractor shall perform the work and produce the draft within two (2) weeks from date of award. Reclamation shall conduct all internal reviews and provide comments back to the contractor within one (1) week from receipt of draft report from the contractor. Upon receipt of comments from Reclamation, the contractor shall provide a final draft to Reclamation within five (5) business days. Reclamation will give approval or additional comments on the final draft within two (2) business days. Upon approval by Reclamation of the final draft, the contractor shall provide the final hard copies and electronic copy to Reclamation within three (3) business days.

Period of Performance

The expected period of performance is from date of award until October 21, 2016.

SCOPE OF WORK FOR A PHASE I ENVIRONMENTAL SITE ASSESSMENT

Nelson Consulting, Inc. (NCI) and SWCA Environmental Consultants (SWCA) will complete a Phase I Environmental Site Assessment (ESA) for the approximately 1-mile long Reach 10 of the NGWSP in McKinley County, New Mexico. The Phase I ESA will be completed in general accordance with the standards described in American Society for Testing and Materials (ASTM) Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (2013) and with the guidance provided in 40 CFR 312, 33 CFR 137, CERCLA, OPA, and other applicable guidance ensuring the report is consistent with accepted professional standards.

The goal of the Phase I ESA is to assess the subject property, to the extent practical, for the potential presence of recognized environmental conditions (RECs), defined in ASTM Standard E 1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions." The following scope of work applies to a Phase I ESA, and consists of five subtasks.

1.1 RECORDS REVIEW

We will review appropriate documents including historical aerial photographs, topographic maps, and other land-use documents in order to identify past operations or activities that may have caused the release of hazardous substances into the environment. Because obtaining historical aerial photography of a long corridor may be cost-prohibitive, SWCA will only order historical aerial photography for currently or previously developed areas.

If made available by the client, we also will review copies of environmental reports previously prepared for the site, environmental compliance audits, environmental permits, environmental liens and activity and use limitations (AULs), and other available environmental documents relating to the site. If provided by the client, specialized knowledge of or experience relating to the property or nearby properties will be reviewed. As part of the review process, site location, hydrogeological characteristics, geographic setting, and physiography also will be summarized.

Additionally, available state and federal regulatory databases will be reviewed to determine whether the subject property or nearby facilities have been subject to environmental actions or review. The regulatory database review will, at a minimum, include the databases required to satisfy the ASTM standard. If the subject property or an adjoining property appears on a federal, state, or tribal database, the ASTM standard requires additional in-person regulatory file review unless the environmental professional determines that a file review is unnecessary and/or that the records cannot be obtained within a reasonable time (20 calendar days from the date of request) for a reasonable cost.

1.2 INTERVIEWS

If site contact and/or property owner contact information is made available by the client, we will attempt to interview those individuals who are knowledgeable about the history of the site (typically, a past or current owner, operator, manager, or occupant of the site). Reasonable attempts will be made to interview at least one staff member of state or local government agencies regarding information that indicates RECs in connection with the property.

1.3 SITE RECONNAISSANCE

NCI and SWCA personnel will conduct a reconnaissance of the site and vicinity to visually identify and photograph areas with potential RECs and to document current site conditions. Because of the size of the site and because much of the site is vacant land with no history of development, SWCA personnel will use aerial photography and topographic maps to identify specific areas of the project area that will require in-person observation. SWCA personnel will then conduct a reconnaissance of those areas and adjacent land to visually identify and photograph areas with potential RECs and to document current site conditions. This scope of work does not include activities such as collecting or analyzing soil, air, water, or other environmental samples and will not address issues such as radon, asbestos, lead, or radioactivity. We will visually inspect the property and the interiors of structures where hazardous chemicals and petroleum products are stored or used. SWCA personnel will require access to all areas of the subject property on the day of the site reconnaissance. Access to private or restricted areas and any necessary work permits will be arranged by a client representative.

1.4 USER-PROVIDED INFORMATION

User-provided information is an essential component of the Phase I ESA and includes items such as copies of any previous Phase I ESAs or other relevant environmental documents, a completed Phase I ESA User Questionnaire, the reason why the Phase I ESA is being performed, access to the subject property, and contact information for current or past owners or land users. The user of the report is defined as the party seeking to use ASTM Standard E 1527-13 to complete a Phase I ESA of the property.

The ASTM standard also requires that the user of the Phase I ESA report must search recorded land-title records and judicial records for environmental liens and AULs and must report this information to SWCA, as the environmental professional writing the Phase I ESA report. Environmental liens and AULs can commonly be found within recorded land title records (e.g., County Recorder/Registry of Deeds). The types of title reports that may disclose environmental liens and AULs include Preliminary Title Reports, Title Commitments, Condition of Title, and Title Abstracts. In jurisdictions where environmental liens or AULs are only recorded or filed in judicial records, the judicial records must be searched for environmental liens and AULs. The user may wish to engage a title company, real estate attorney, or title professional to undertake a review of reasonably ascertainable recorded land-title records and lien records for environmental liens and AULs. If the user opts not to search for liens and AULs, this would be noted as a limitation of the report.

A 50-year chain-of-title report and a search for liens and AULs will not be obtained by SWCA under this scope of work. SWCA will, however, review a chain-of-title report and lien search if supplied by the client, or we will obtain these data at an additional cost to this scope of work, if requested by the client.

1.5 REPORT GENERATION

The Phase I ESA findings will be summarized and documented in one report. Sections within the report will include 1) an introduction and description of the scope of work; 2) a description of the site; 3) a summary of the site history, including interviews and user-provided information; 4) a regulatory database review; 5) a description of the site reconnaissance; and 6) report findings and conclusions. Deviations from ASTM will be explained and justified. The potential for contaminant migration, including vapor in the subsurface, will be assessed in accordance with ASTM Standard E 1527-13; however, a formal ASTM Standard E 2600-10 Vapor Encroachment Screening to identify vapor encroachment conditions will not be conducted as part of this scope of work. Report limitations and literature cited will also be included. Figures, at a minimum, will include 1) a regional site location map; and 2) an aerial photograph. Where applicable, report appendices could include 1) reproductions of select aerial photographs; 2) a copy of the regulatory database review report; 3) select site photographs; 4) applicable site history and prior-use documentation; and 5) copies of relevant environmental reports.

According to ASTM Standard E 1527-13, the content of a Phase I ESA is valid for only 180 days. If the date of the intended use for Phase I ESA is not within 180 days of the completion of the report, an update will be necessary.

COST

Cost to complete the Phase I ESA: [REDACTED]

SCHEDULE

We will perform the work and produce a draft report within 2 weeks from the date of notice to proceed. Upon receipt of comments we will provide a final draft within five 5 business days. Upon approval by Reclamation of the final draft, we will provide the final hard copies and electronic copy to Reclamation within three 3 business days

ASSUMPTIONS

1. The draft report will be delivered in electronic format and final report will be delivered as 3 hard copies and in electronic format. Substantial report revisions such as changes to the scope of work or the project area will incur additional cost
2. The client will provide detailed site mapping prior to commencement of work.
3. Access to private or restricted areas and any necessary work permits will be arranged by a client representative. All areas of the site are reasonably accessible and access will be provided to the interiors of any areas where hazardous chemicals and petroleum products are stored or used. Delays due to weather or the client will incur additional cost.

4. Any task not expressly described herein is not included in the proposed cost.
5. The Phase I ESA will be prepared in general accordance with ASTM standards and does not include any sampling such as soil, air, water, vapor, lead, or asbestos.
6. The date of the intended use of the Phase I ESAs is within 180 days of the completion of the report.

ATTACHMENT – Signatory Environmental Professional Qualifications

APPENDIX B
SWCA Credentials

Education / Training

- B.A., Biology / Chemistry, Gettysburg College; 1994

Expertise

- ESAs, EDDAs, EBSs
- Wetland delineation and hydric soils
- Stream channel assessment and restoration
- State/National Environmental Policy Act (S/NEPA) documentation
- Protected species
- 404/401 permitting
- Construction oversight
- Project management

Relevant Projects

- Phase I EDDAs for nine Airport Expansion Projects
- Phase I ESA and SWPPP Review for Trucking Facilities; Rayne, Louisiana
- 52-square-mile Phase I ESA for Wind Farm Construction; Colorado
- 43,000-acre Phase I ESA for Wind Farm Construction; Williams, Arizona
- Numerous Phase I ESAs for oil & gas facilities; Wyoming, North Dakota
- 4,500-acre Phase I ESA for Wind Farm Construction; New Mexico
- Phase I ESA of Former Naval Depot for Redevelopment; Guam
- 86-mile Transmission Line Phase I ESA and Wetland Delineation; Florence, South Carolina
- Several Phase I ESA for Solar Development; California, Arizona, New Mexico, and Hawaii
- 950-acre Phase I ESA and Wetland Delineation; Fort Stewart, Georgia
- EBS for Wastewater Treatment Plant Improvements; Schofield Barracks U.S. Army Post, Honolulu, Hawaii

Mr. O'Brien is an Environmental Specialist in SWCA's Phoenix, Arizona office. He has 18 years of experience in environmental consulting and technical writing, including 15 years of extensive experience performing Phase I environmental site assessments (ESAs), and is an integral part of SWCA's NEPA team.

He has performed numerous ESAs in a variety of locations, from uninhabited deserts and mountains to dense metropolitan settings in 20 states and Guam, from tiny parcels to 600-square mile assemblages, including a U.S. Environmental Protection Agency (EPA) Superfund site and Department of Defense sites. He teaches others to conduct ESAs and has prepared and taught classroom and field sessions on ESA field and writing techniques. His specialties include performing FAA-Standard Phase I Environmental Due Diligence Audits (EDDAs) for airport projects and using ASTM Standard 2247-08 for large-scale projects. He is skilled in applying the principles of ESAs to Environmental Baseline Surveys (EBSs) for Department of Defense sites and classification of environmental condition of property area types. He manages the large and difficult Phase I ESAs for SWCA.

Mr. O'Brien is also experienced in performing soil mapping, wetland delineations, habitat assessments, permitting, protected species, and stream morphology assessments. He has delineated more than 40,000 acres of wetlands and has performed assessment, design, and construction oversight for more than 250 stream stabilization sites. He has completed M.A.-level coursework in soil characterization and hydric soils. He has extensive experience performing construction oversight and has experience training contractors, staff, and local officials.

Mr. O'Brien has extensive plant, soil, and hydrology fieldwork experience, in locations from coastal marshes to deserts to high in the Rocky Mountains. He has been 40-hour Hazardous Waste and Emergency Response (HAZWOPER)-certified since 1996. He earned a Watershed Training Certificate from the EPA, a Water Supply Watershed Protection certificate, and is a current member of the Arizona Association of Environmental Professionals and the Arizona Riparian Council.

Years of Experience

17

Expertise

ESAs and SWPPPs

EA/EISs

Hydrologic/hydraulic
sensitivity analysis

Surface water and
groundwater modelling
and floodplain
mapping

Education

M.S., Watershed
Management;
University of Arizona;
Tucson; 1999

B.S. magna cum laude,
Natural Resources;
University of Arizona;
Tucson; 1997

**Registration/
Certification**

CPESC – Certified
Professional in Erosion
and Sediment Control
(Certification Number
6100)

Training

ESAs for Commercial
Real Estate—ASTM-
accredited Course;
2006

U.S. Environmental
Protection Act All
Appropriate Inquiry
and the New ASTM
Phase I Standard after
AAI—ASTM-accredited
Course; 2007–2008

Experience Summary

Ms. Rietz is a hydrologist and project manager in SWCA's Phoenix office, with experience in compliance with the National Environmental Policy Act (NEPA), Sections 402 and 404 of the Clean Water Act (CWA), and the Arizona Groundwater Code.

Ms. Rietz has developed scientific studies and prepared resource reports in support of environmental assessments (EAs), environmental impact statements (EISs), and stormwater pollution prevention plans (SWPPP) throughout the desert southwest, and Guam. Her experience also includes GIS analysis, vegetative mapping, and the use of programs such as THWELLS and Hydrologic Engineering Center software for ground and surface water modeling and floodplain mapping. Ms. Rietz has conducted sensitivity analysis on riparian restoration projects and is experienced in performing Phase I and II environmental site assessments (ESAs) in accordance with the American Society for Testing and Materials Standards for ESAs.

Selected Project Experience

Southline Transmission EIS; Las Cruces, New Mexico, to Tucson, Arizona; Southline Transmission LLC. SWCA serves as the third-party NEPA consultant to the BLM and the Western Area Power Administration (the co-lead federal agencies) and Southline Transmission LLC (the proponent). The project proposes more than 360 miles of new and rebuilt transmission line and will provide 1,000 megawatts of capacity in southern New Mexico and Arizona. SWCA is responsible for successfully coordinating with multiple agencies, consultants, and developers to ultimately compile a comprehensive and legally defensible EIS. *Role: Resource Coordinator. Manage data acquisition and coordinate resource reporting by various authors. Research and writing in support of EIS.*

Perrin Ranch; Coconino County, Arizona; NextEra Energy Resources, LLC. SWCA completed pre-construction surveys, permitting, and construction monitoring for installation of the 99-megawatt wind facility and post-construction monitoring studies as described in the Avian and Bat Protection Plan. *Role: Hydrologist. Conducted water resources analysis in support of the environmental assessment. Analyzed best management practices proposed for erosion control. Performed a phase I environmental site assessment on the private and state trust lands associated with the project.*

Phase I ESA for 30-acres at Apra Harbor; Piti, Guam; TG Engineers. SWCA performed a phase I environmental site assessment (ESA) and follow up mitigation plan for a commercial development of a 30-acre parcel at Polaris Point in Piti, Guam. *Role: Environmental Specialist, performed environmental record and historical aerial photography review, assessed the presence of recognized environmental conditions and formulated Phase II sampling plan to characterize contaminants at the site.*

APPENDIX C
Additional Records

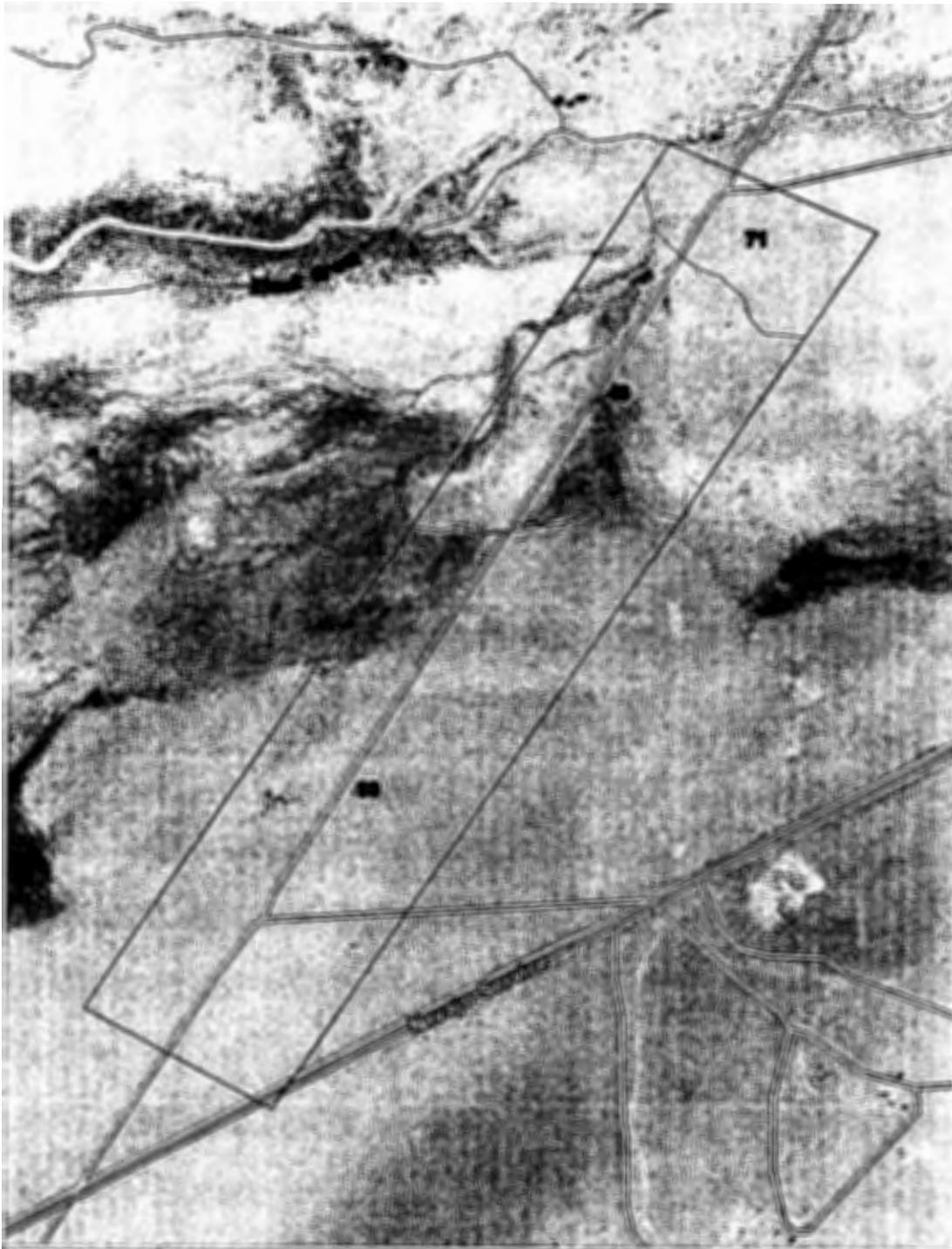
Soil Map—Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan ...
(NGWSP Reach 10 Soil Map)

108° 44' 36" W

108° 43' 31" W

35° 45' 55" N

35° 45' 55" N



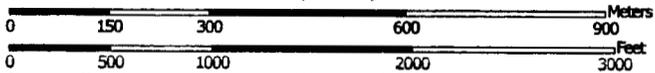
35° 44' 44" N

35° 44' 44" N

108° 44' 36" W



Map Scale: 1:10,600 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84

108° 43' 31" W



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/22/2016
Page 1 of 3



MAP LEGEND

	Area of Interest (AOI)		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Water Features		Streams and Canals		Transportation		Rails		Interstate Highways		US Routes		Major Roads		Local Roads		Background		Aerial Photography
	Area of Interest (AOI)		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Water Features		Streams and Canals		Transportation		Rails		Interstate Highways		US Routes		Major Roads		Local Roads		Background		Aerial Photography
	Area of Interest (AOI)		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Water Features		Streams and Canals		Transportation		Rails		Interstate Highways		US Routes		Major Roads		Local Roads		Background		Aerial Photography
	Area of Interest (AOI)		Soil Map Unit Polygons		Soil Map Unit Lines		Soil Map Unit Points		Special Point Features		Water Features		Streams and Canals		Transportation		Rails		Interstate Highways		US Routes		Major Roads		Local Roads		Background		Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan Counties, New Mexico

Survey Area Data: Version 13, Sep 20, 2014

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

Date(s) aerial images were photographed: Mar 25, 2010—Apr 2, 2010

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

Map Unit Legend

Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan Counties, New Mexico (AZ715)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
43	Jeddito loamy fine sand, 0 to 5 percent slopes	48.4	28.3%
71	Notai-Jocity family complex, 0 to 2 percent slopes	17.4	10.2%
93	Redlands-Shiprock families complex, 1 to 8 percent slopes	105.2	61.5%
Totals for Area of Interest		170.9	100.0%

APPENDIX D
Environmental Database Records

26986.06 NGWSP Segment 10

None

Tohatchi, NM 87325

Inquiry Number: 4716448.2s

September 01, 2016

The EDR Radius Map™ Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NONE
TOHATCHI, NM 87325

COORDINATES

Latitude (North): 35.7547110 - 35° 45' 16.95"
Longitude (West): 108.7349590 - 108° 44' 5.85"
Universal Transverse Mercator: Zone 12
UTM X (Meters): 704794.9
UTM Y (Meters): 3958909.2
Elevation: 6200 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5968166 CHUSKA LAKE, NM
Version Date: 2013

Southeast Map: 5978174 BIG ROCK HILL, NM
Version Date: 2013

Southwest Map: 5978202 TWIN LAKES, NM
Version Date: 2013

Northwest Map: 5978196 TOHATCHI, NM
Version Date: 2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140520
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:

NONE
TOHATCHI, NM 87325

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	NAVAJO INDIAN RESERV		INDIAN RESERV	Same	1 ft.

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

SCS..... State Cleanup Sites Listing

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facilities

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tank Prioritization Database

LAST..... Leaking Aboveground Storage Tank Sites

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

LTANKS..... Leaking Storage Tank Listing

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Listing of Underground Storage Tanks

AST..... Aboveground Storage Tanks List

INDIAN UST..... Underground Storage Tanks on Indian Land

TANKS..... Storage Tank Facility Listing

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites with Institutional Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Remediation Program Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Facility Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

EXECUTIVE SUMMARY

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Clandestine Drug Laboratory Listing
US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Spill Data

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDES..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
AIRS..... Airs Information

EXECUTIVE SUMMARY

ASBESTOS.....	List of Asbestos Demolition and Renovations Jobs
MINES.....	Coal Mine Permits Database
DRYCLEANERS.....	Drycleaner Facility Listing
Financial Assurance.....	Financial Assurance Information
NPDES.....	List of Discharge Permits
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ECHO.....	Enforcement & Compliance History Information

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

INDIAN RESERV: This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

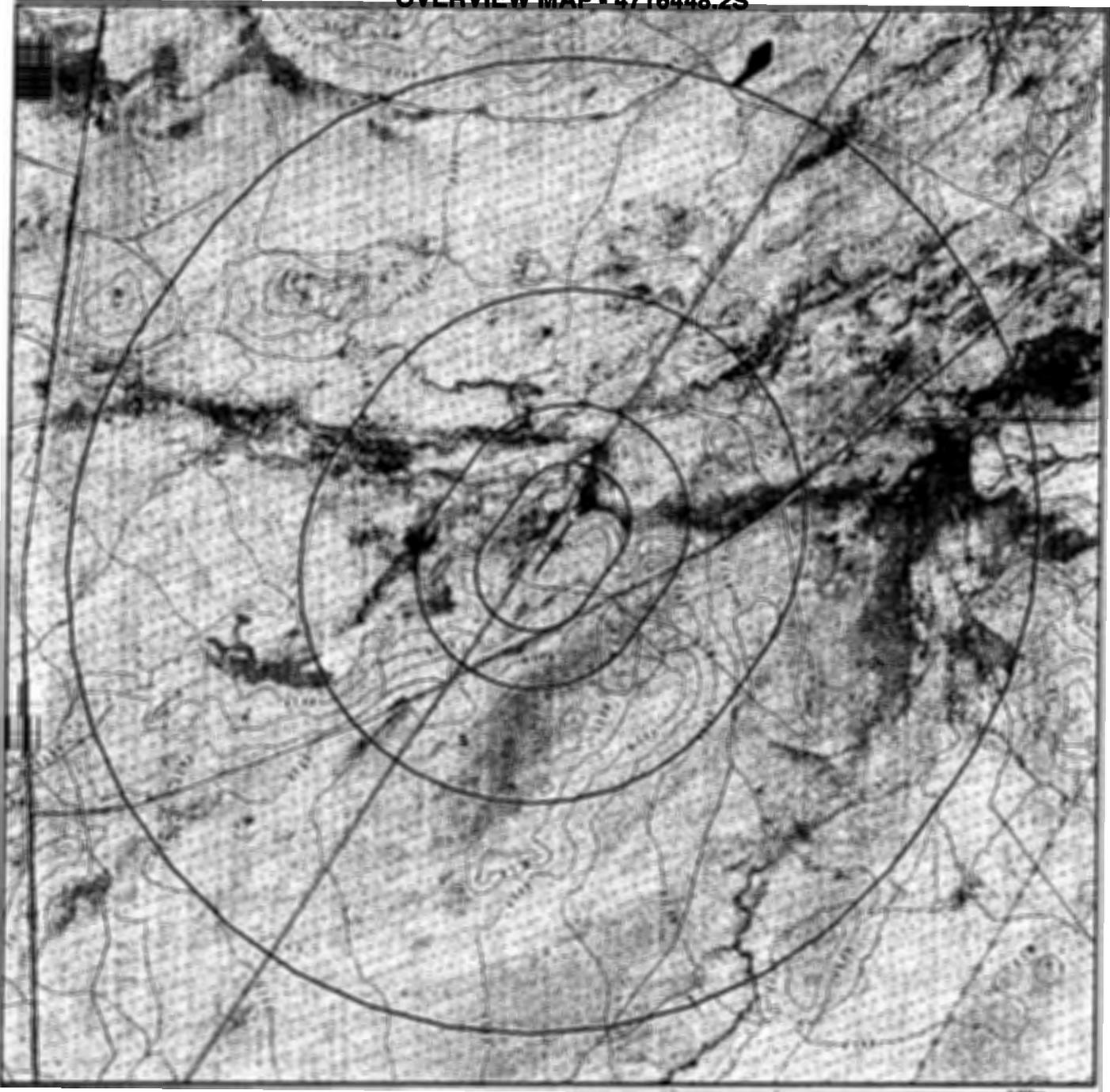
A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 INDIAN RESERV site within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NAVAJO INDIAN RESERV		0 - 1/8 (0.000 mi.)	0	8

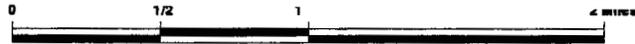
EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4716448.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites



-  Indian Reservations BIA
-  Power transmission lines
-  Pipelines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 26986.06 NGWSP Segment 10
ADDRESS: None
 Tohatchi NM 87325
LAT/LONG: 35.754711 / 108.734959

CLIENT: SWCA Environmental Consultants
CONTACT: Steve O'Brien
INQUIRY #: 4716448.2s
DATE: September 01, 2016 2:32 pm

DETAIL MAP - 4716448.2S



- Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 26986.06 NGWSP Segment 10 ADDRESS: None Tohatchi NM 87325 LAT/LONG: 35.754711 / 108.734959	CLIENT: SWCA Environmental Consultants CONTACT: Steve O'Brien INQUIRY #: 4716448.2s DATE: September 01, 2016 2:33 pm
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.250		0	0	0	0	0	0
Proposed NPL	1.250		0	0	0	0	0	0
NPL LIENS	0.250		0	0	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.250		0	0	0	0	0	0
Federal CERCLIS list								
FEDERAL FACILITY	0.750		0	0	0	0	NR	0
SEMS	0.750		0	0	0	0	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.750		0	0	0	0	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.250		0	0	0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.750		0	0	0	0	NR	0
Federal RCRA generators list								
RCRA-LQG	0.500		0	0	0	NR	NR	0
RCRA-SQG	0.500		0	0	0	NR	NR	0
RCRA-CESQG	0.500		0	0	0	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.750		0	0	0	0	NR	0
US ENG CONTROLS	0.750		0	0	0	0	NR	0
US INST CONTROL	0.750		0	0	0	0	NR	0
Federal ERNS list								
ERNS	0.250		0	0	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
SCS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.750		0	0	0	0	NR	0
State and tribal leaking storage tank lists								
LUST	0.750		0	0	0	0	NR	0
LAST	0.750		0	0	0	0	NR	0
INDIAN LUST	0.750		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LTANKS	0.750		0	0	0	0	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.500		0	0	0	NR	NR	0
UST	0.500		0	0	0	NR	NR	0
AST	0.500		0	0	0	NR	NR	0
INDIAN UST TANKS	0.500		0	0	0	NR	NR	0
TANKS	0.500		0	0	0	NR	NR	0
State and tribal Institutional control / engineering control registries								
INST CONTROL	0.750		0	0	0	0	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.750		0	0	0	0	NR	0
VCP	0.750		0	0	0	0	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.750		0	0	0	0	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.750		0	0	0	0	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.750		0	0	0	0	NR	0
INDIAN ODI	0.750		0	0	0	0	NR	0
DEBRIS REGION 9	0.750		0	0	0	0	NR	0
ODI	0.750		0	0	0	0	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.250		0	0	NR	NR	NR	0
CDL	0.250		0	0	NR	NR	NR	0
US CDL	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS 2	0.250		0	0	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.250		0	0	NR	NR	NR	0
SPILLS	0.250		0	0	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.500		0	0	0	NR	NR	0
FUDS	1.250		0	0	0	0	0	0
DOD	1.250		0	0	0	0	0	0
SCRD DRYCLEANERS	0.750		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	0.250		0	0	NR	NR	NR	0
2020 COR ACTION	0.500		0	0	0	NR	NR	0
TSCA	0.250		0	0	NR	NR	NR	0
TRIS	0.250		0	0	NR	NR	NR	0
SSTS	0.250		0	0	NR	NR	NR	0
ROD	1.250		0	0	0	0	0	0
RMP	0.250		0	0	NR	NR	NR	0
RAATS	0.250		0	0	NR	NR	NR	0
PRP	0.250		0	0	NR	NR	NR	0
PADS	0.250		0	0	NR	NR	NR	0
ICIS	0.250		0	0	NR	NR	NR	0
FTTS	0.250		0	0	NR	NR	NR	0
MLTS	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.750		0	0	0	0	NR	0
PCB TRANSFORMER	0.250		0	0	NR	NR	NR	0
RADINFO	0.250		0	0	NR	NR	NR	0
HIST FTTS	0.250		0	0	NR	NR	NR	0
DOT OPS	0.250		0	0	NR	NR	NR	0
CONSENT	1.250		0	0	0	0	0	0
INDIAN RESERV	1.250		1	0	0	0	0	1
FUSRAP	1.250		0	0	0	0	0	0
UMTRA	0.750		0	0	0	0	NR	0
LEAD SMELTERS	0.250		0	0	NR	NR	NR	0
US AIRS	0.250		0	0	NR	NR	NR	0
US MINES	0.500		0	0	0	NR	NR	0
FINDS	0.250		0	0	NR	NR	NR	0
UXO	1.250		0	0	0	0	0	0
DOCKET HWC	0.250		0	0	NR	NR	NR	0
AIRS	0.250		0	0	NR	NR	NR	0
ASBESTOS	0.250		0	0	NR	NR	NR	0
MINES	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	0.250		0	0	NR	NR	NR	0
NPDES	0.250		0	0	NR	NR	NR	0
FUELS PROGRAM	0.500		0	0	0	NR	NR	0
ECHO	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.250		0	0	0	0	0	0
EDR Hist Auto	0.375		0	0	0	NR	NR	0
EDR Hist Cleaner	0.375		0	0	0	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.250		0	0	NR	NR	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	0.250		0	0	NR	NR	NR	0
- Totals --		0	1	0	0	0	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

IND RES
Region

NAVAJO INDIAN RESERVATION

INDIAN RESERV

CIND100321
N/A

NAVAJO INDIAN RESERVATION (County), AZ

< 1/8
1 ft.

INDIAN RESERV:

Feature: Indian Reservation
Name: Navajo Indian Reservation
Agency: BIA
State: AZ-NM-UT

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
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NO SITES FOUND

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 214-665-6444
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 214-665-6444
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 214-665-6444
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 214-665-6444
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

Federal Institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 08/12/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS Ilist

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SCS: State Cleanup Sites Listing

State cleanup sites that fall under the state's Water Quality Control Commission Regulations.

Date of Government Version: 04/14/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 61

Source: Environment Department
Telephone: 505-827-2855
Last EDR Contact: 04/19/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Department of the Environment
Telephone: 505-827-2918
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: N/A

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 06/12/2015
Date Made Active in Reports: 07/23/2015
Number of Days to Update: 41

Source: New Mexico Environment Department
Telephone: 505-827-0347
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank sites.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 05/01/2006
Date Made Active in Reports: 06/05/2006
Number of Days to Update: 35

Source: Environment Department
Telephone: 505-476-4397
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Storage Tank Priorization Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/01/2006	Source: New Mexico Environment Department
Date Data Arrived at EDR: 10/06/2006	Telephone: 505-476-4397
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 06/24/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

LTANKS: Leaking Storage Tank Listing

A listing of leaking storage tank site locations.

Date of Government Version: 01/04/2016	Source: Environment Department
Date Data Arrived at EDR: 01/08/2016	Telephone: 505-476-4390
Date Made Active in Reports: 02/17/2016	Last EDR Contact: 07/08/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Varies

UST: Listing of Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/01/2006	Source: New Mexico Environment Department
Date Data Arrived at EDR: 09/27/2006	Telephone: 505-476-4397
Date Made Active in Reports: 10/23/2006	Last EDR Contact: 05/27/2016
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: No Update Planned

AST: Aboveground Storage Tanks List

Aboveground tanks that have been inspected by the State Fire Marshal.

Date of Government Version: 08/01/2006	Source: Environment Department
Date Data Arrived at EDR: 09/27/2006	Telephone: 505-476-4397
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 05/27/2016
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: No Update Planned

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

TANKS: Storage Tank Facility Listing

A listing of aboveground and underground storage tank site locations.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 02/02/2016
Number of Days to Update: 56

Source: Environment Department
Telephone: 505-476-4390
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Institutional Controls

Sites included in the Voluntary Cleanup listing that have Institutional Controls in place.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 48

Source: Environment Department
Telephone: 505-827-2754
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Remediation Program Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 04/21/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 38

Source: Environment Department
Telephone: 505-827-2754
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/01/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site Listing
A listing of targeted brownfields assessment.

Date of Government Version: 04/01/2016
Date Data Arrived at EDR: 05/12/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 27

Source: New Mexico Environment
Telephone: 505-827-0171
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield llists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/21/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facility Listing
A listing of recycling facility locations.

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 06/12/2015
Date Made Active in Reports: 07/23/2015
Number of Days to Update: 41

Source: Environment Department
Telephone: 505-827-0197
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/05/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Laboratory Listing

A listing of clandestine drug labs, such as illegal methamphetamine labs.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 04/22/2014
Date Made Active in Reports: 05/20/2014
Number of Days to Update: 28

Source: Environment Department
Telephone: 505-476-6000
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 06/28/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Annually

SPILLS: Spill Data

Hazardous materials spills data.

Date of Government Version: 03/28/2016	Source: Environment Department
Date Data Arrived at EDR: 04/05/2016	Telephone: 505-827-0166
Date Made Active in Reports: 06/08/2016	Last EDR Contact: 06/24/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: 214-665-6444
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 06/10/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/19/2016
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/15/2016
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2016 Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/18/2016 Telephone: 301-415-7169
Date Made Active in Reports: 04/15/2016 Last EDR Contact: 09/05/2016
Number of Days to Update: 28 Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009 Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009 Last EDR Contact: 06/09/2016
Number of Days to Update: 76 Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014 Telephone: N/A
Date Made Active in Reports: 10/20/2014 Last EDR Contact: 06/10/2016
Number of Days to Update: 40 Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011 Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011 Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012 Last EDR Contact: 07/29/2016
Number of Days to Update: 83 Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015 Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015 Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015 Last EDR Contact: 07/07/2016
Number of Days to Update: 69 Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007 Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007 Last EDR Contact: 12/17/2007
Number of Days to Update: 40 Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/11/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 80

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (214) 665-2200
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 06/20/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

AIRS: Airs Information

A listing of facilities with Air Quality Bureau permits.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/08/2016
Number of Days to Update: 42

Source: New Mexico Environment Department
Telephone: 505-476-4339
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

ASBESTOS: List of Asbestos Demolition and Renovations Jobs

Asbestos is a common fibrous rock found worldwide which has been used in various products for over 4500 years. It has been used in over 3000 different products such as textiles, paper, ropes, wicks, stoves, filters, floor tiles, roofing shingles, clutch facings, water pipe, cements, fillers, felt, fireproof clothing, gaskets, battery boxes, clapboard, wallboard, fire doors, fire curtains, insulation, brake linings, etc.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/22/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/20/2016
Number of Days to Update: 52

Source: New Mexico Environment Department
Telephone: 505-827-1494
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

COAL MINES: Coal Mine Permits Database

New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 07/13/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/11/2013
Number of Days to Update: 25

Source: Bureau of Geology and Mineral Resources
Telephone: 505-476-3402
Last EDR Contact: 12/17/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

COAL MINES 2: Coal Permit Boundaries

ESRI ArcView shapefile depicting New Mexico coal mines permitted under the Surface Mining Control and Reclamation Act of 1977 (SMCRA), by either the NM Mining & Minerals Division (MMD), or by the federal DOI Office of Surface Mining, Reclamation & Enforcement.

Date of Government Version: 02/01/2014
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 24

Source: Mining & Minerals Division
Telephone: 505-476-3417
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner facility locations. The listing may contain facilities that are no longer there, or under different management.

Date of Government Version: 01/06/2010
Date Data Arrived at EDR: 01/07/2010
Date Made Active in Reports: 02/04/2010
Number of Days to Update: 28

Source: Environment Department
Telephone: 505-222-9507
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

FINANCIAL ASSURANCE 1: Financial Assurance Information

Information for underground solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/03/2012
Date Data Arrived at EDR: 01/04/2013
Date Made Active in Reports: 01/10/2013
Number of Days to Update: 6

Source: Environment Department
Telephone: 505-827-0197
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information

Information for underground hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/16/2016
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 04/12/2016
Number of Days to Update: 53

Source: Environment Department
Telephone: 505-476-6018
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: List of Discharge Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 04/01/2016	Source: Environment Department
Date Data Arrived at EDR: 04/21/2016	Telephone: 505-827-2918
Date Made Active in Reports: 06/16/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Semi-Annually

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/23/2015	Telephone: 202-564-2280
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 06/22/2016
Number of Days to Update: 103	Next Scheduled EDR Contact: 10/03/2016
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016	Source: EPA
Date Data Arrived at EDR: 05/25/2016	Telephone: 800-385-6164
Date Made Active in Reports: 07/13/2016	Last EDR Contact: 08/23/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A	Source: New Mexico Environment Department
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/16/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 199	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the New Mexico Environment Department in New Mexico.

Date of Government Version: N/A	Source: New Mexico Environment Department
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/03/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 186	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2016	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/06/2016	Telephone: 518-402-8651
Date Made Active in Reports: 06/17/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Providers

Source: Office of Child Development
Telephone: 505-827-7946

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service
Telephone: 505-248-6660

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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26986.06 NGWSP Segment 10

None

Tohatchi, NM 87325

Inquiry Number: 4716448.6

September 01, 2016

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/01/16

Site Name:

26986.06 NGWSP Segment 1C
None
Tohatchi, NM 87325
EDR Inquiry # 4716448.6

Client Name:

SWCA Environmental Consultants
3033 N. Central Ave.
Phoenix, AZ 85012
Contact: Steve Obrien



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by SWCA Environmental Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	35.754711 35° 45' 17" North
Project:	26986.06 NGWSP Segment 1C	Longitude:	-108.734959 -108° 44' 6" West
		UTM Zone:	Zone 12 North
		UTM X Meters:	704790.12
		UTM Y Meters:	3959108.86
		Elevation:	6199.88' above sea level

Maps Provided:

2013
1970

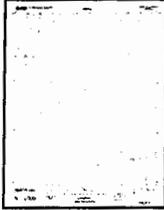
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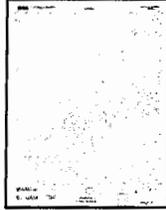
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

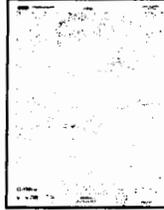
2013 Source Sheets



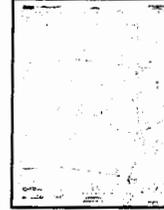
Chuska Lake
2013
7.5-minute, 24000



Big Rock Hill
2013
7.5-minute, 24000



Tohatchi
2013
7.5-minute, 24000

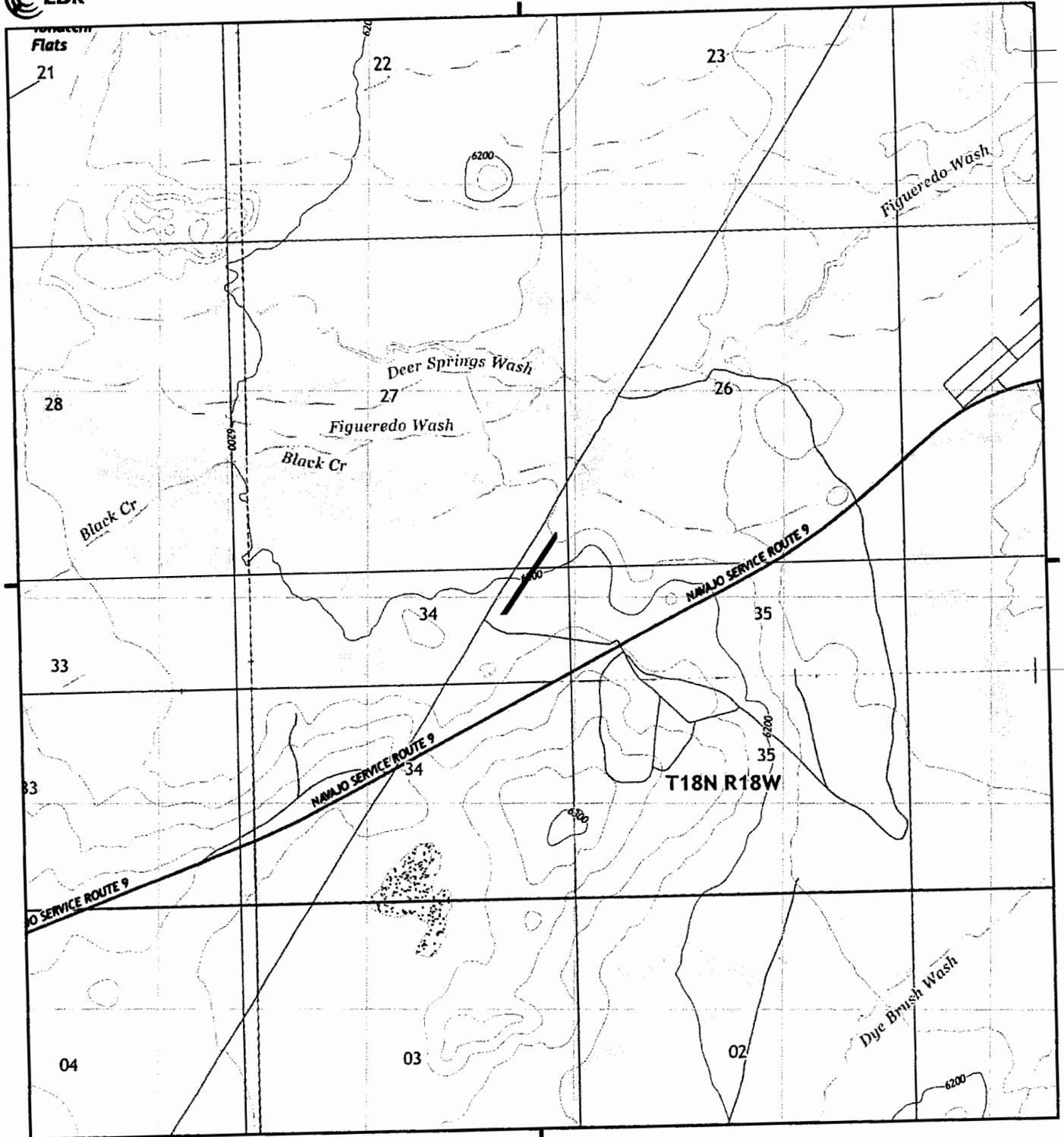


Twin Lakes
2013
7.5-minute, 24000

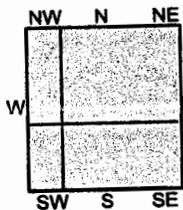
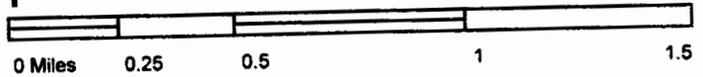
1970 Source Sheets



Chuska Lake
1970
7.5-minute, 24000
Aerial Photo Revised 1969



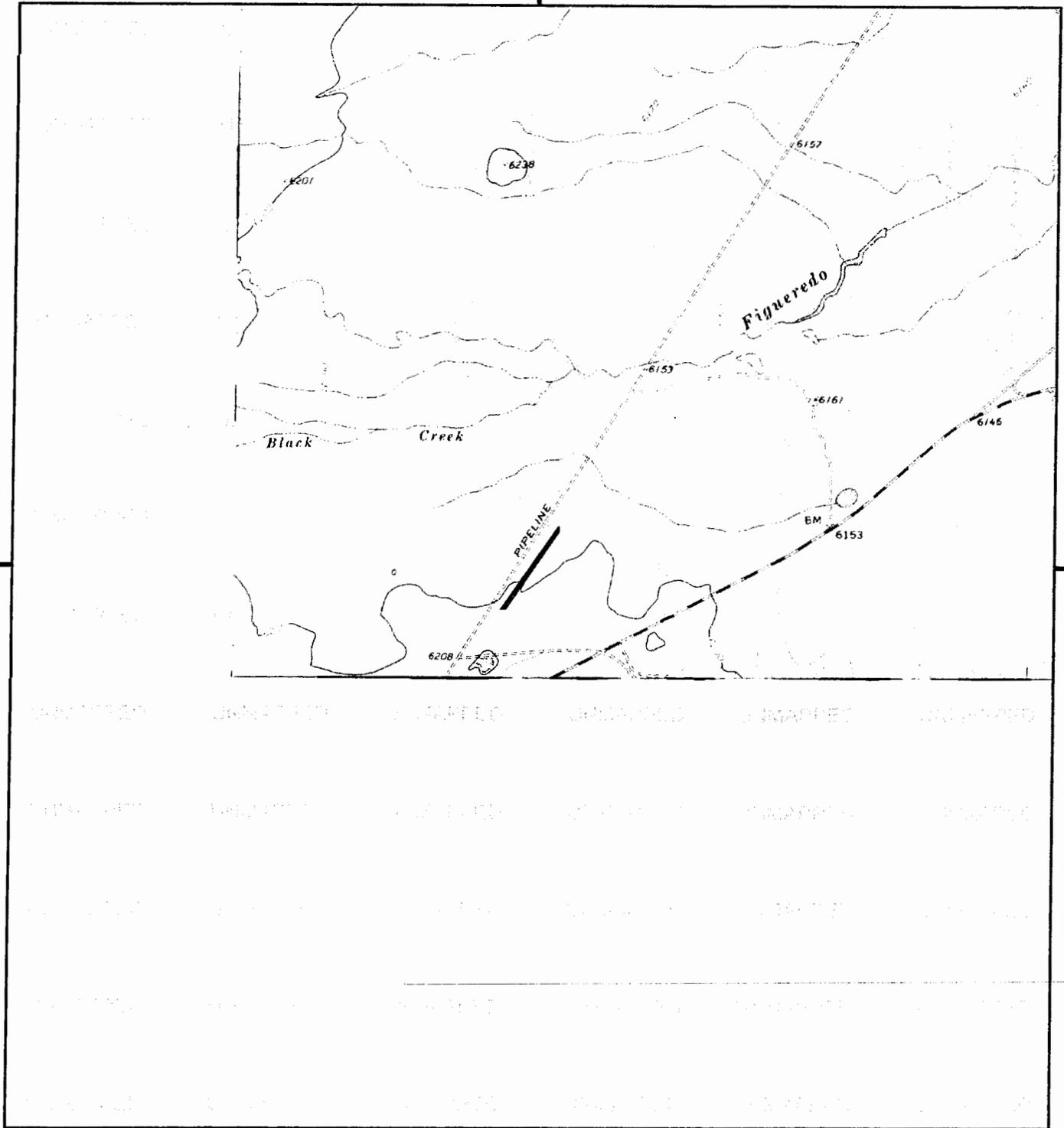
This report includes information from the following map sheet(s).



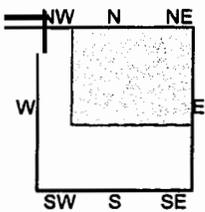
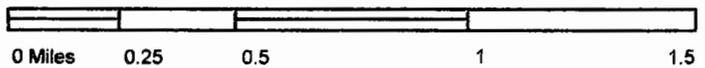
TP, Chuska Lake, 2013, 7.5-minute
SE, Big Rock Hill, 2013, 7.5-minute
SW, Twin Lakes, 2013, 7.5-minute
NW, Tohatchi, 2013, 7.5-minute

SITE NAME: 26986.06 NGWSP Segment 10
ADDRESS: None
Tohatchi, NM 87325
CLIENT: SWCA Environmental Consultants





This report includes information from the following map sheet(s).



TP, Chuska Lake, 1970, 7.5-minute

SITE NAME: 26986.06 NGWSP Segment 10
ADDRESS: None
Tohatchi, NM 87325
CLIENT: SWCA Environmental Consultants



26986.06 NGWSP Segment 10

None

Tohatchi, NM 87325

Inquiry Number: 4716448.5

September 02, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/02/16

Site Name:

26986.06 NGWSP Segment 1C
None
Tohatchi, NM 87325
EDR Inquiry # 4716448.5

Client Name:

SWCA Environmental Consultants
3033 N. Central Ave.
Phoenix, AZ 85012
Contact: Steve Obrien



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
1997	1"=500'	Acquisition Date: October 09, 1997	USGS/DOQQ
1975	1"=750'	Flight Date: June 15, 1975	USGS
1969	1"=750'	Flight Date: July 26, 1969	USGS
1952	1"=500'	Flight Date: September 13, 1952	USGS

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INQUIRY #: 4716448.5

YEAR: 2011

————— = 500'



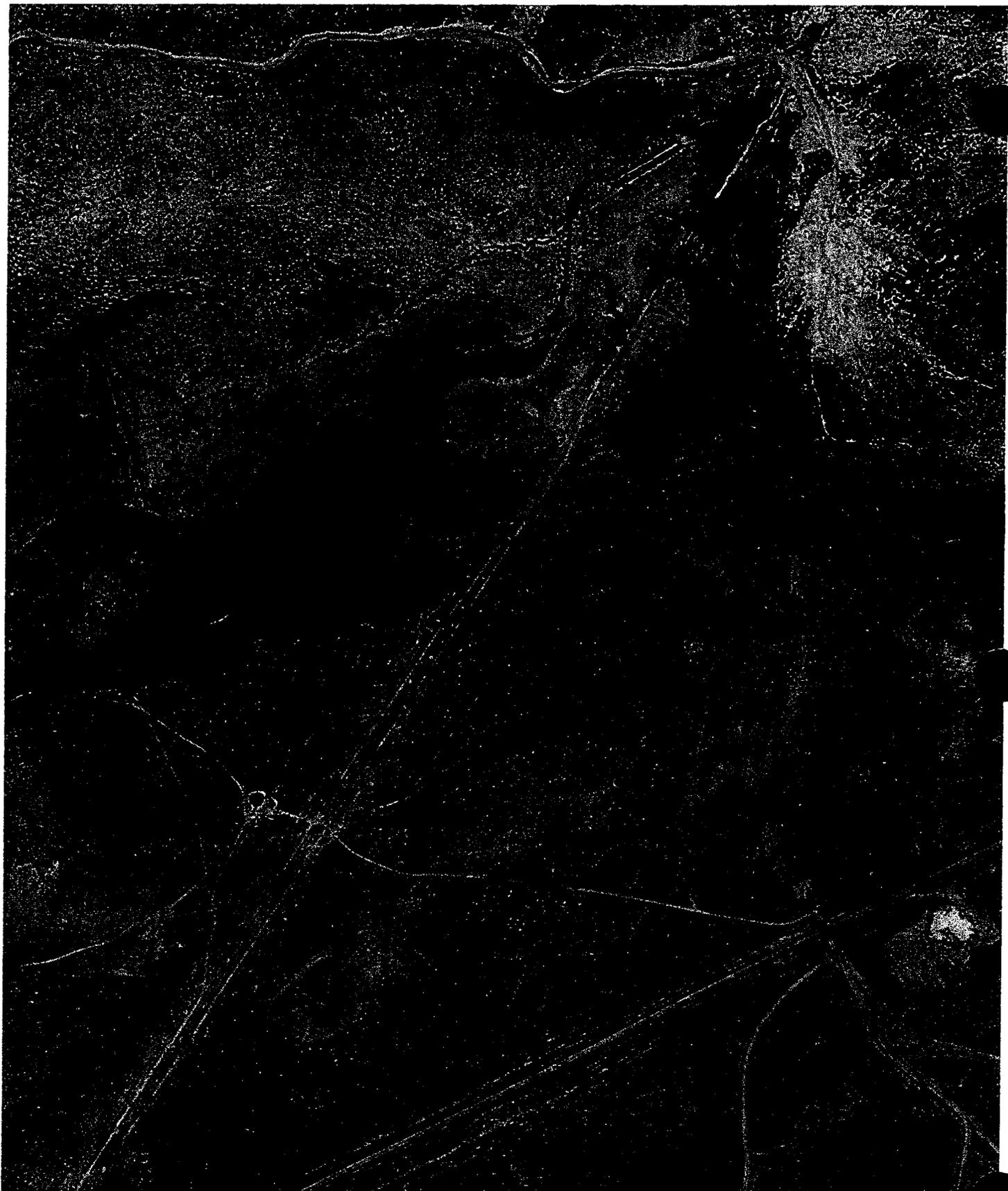


INQUIRY #: 4716448.5

YEAR: 2009

_____ = 500'





INQUIRY #: 4716448.5

YEAR: 1997

————— = 500'



INQUIRY #: 4716448.5

YEAR: 1975

→ = 750'



INQUIRY #: 4716448.5

YEAR: 1969

————— = 750'





INVENTORY # 4710441.5

YEAR: 1952

_____ = 500'

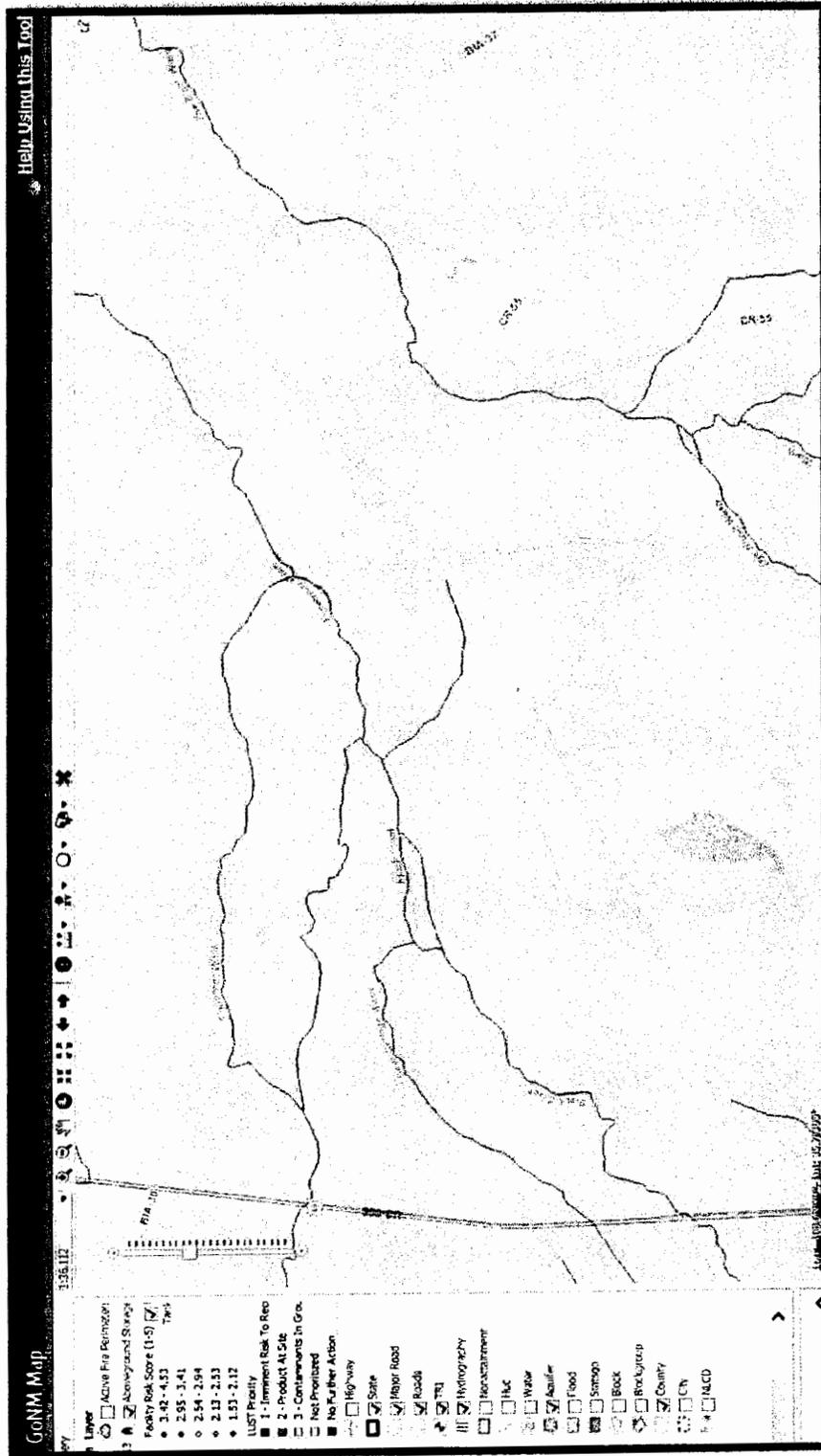


Supplemental State Environmental Database

Mapping of the Subject Property

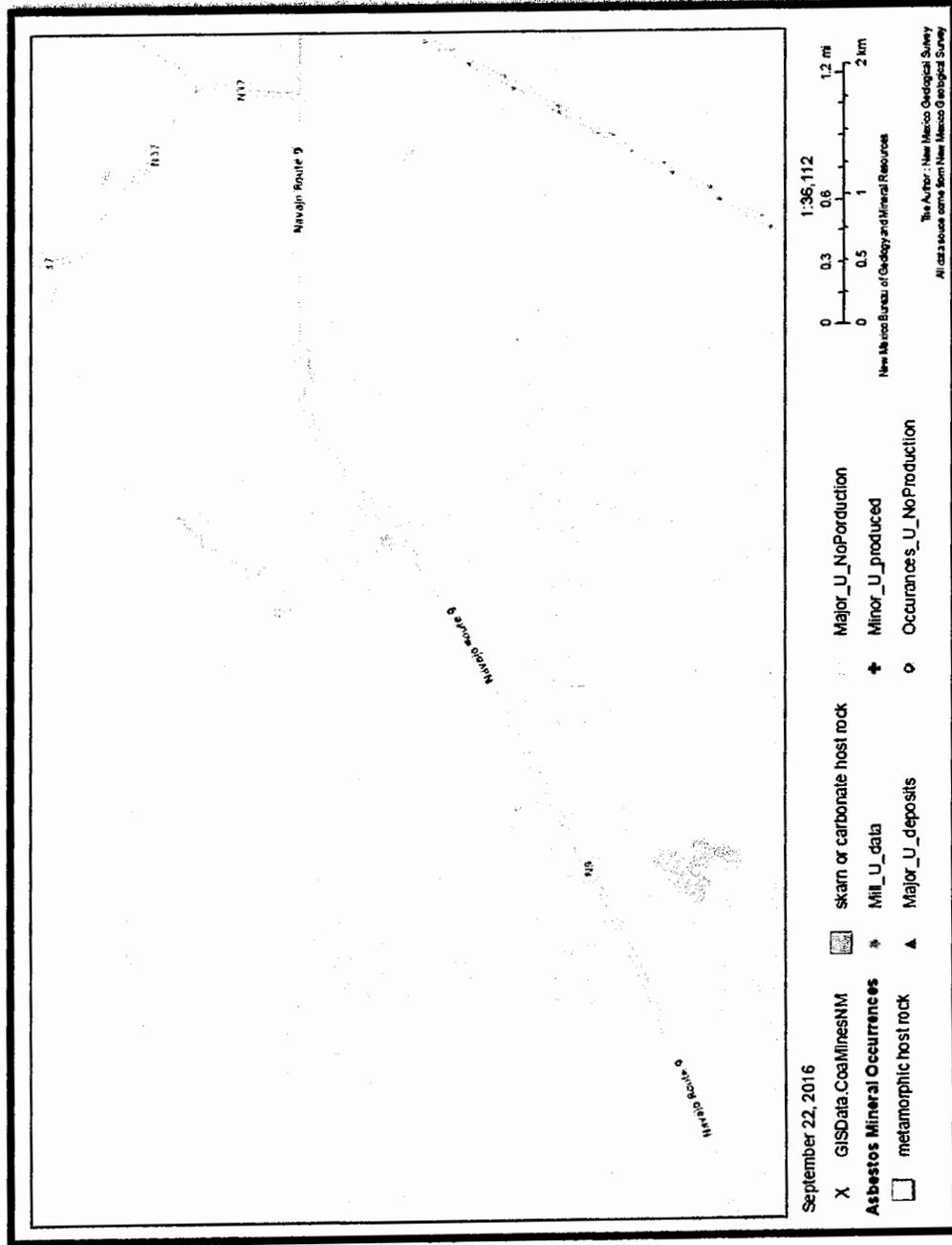
New Mexico Environment Department Petroleum Storage Tank Bureau, GoNM Mapper Environmental Database Application

Available at: <https://gis.web.env.nm.gov/GoNM/>. Accessed September 22, 2016.



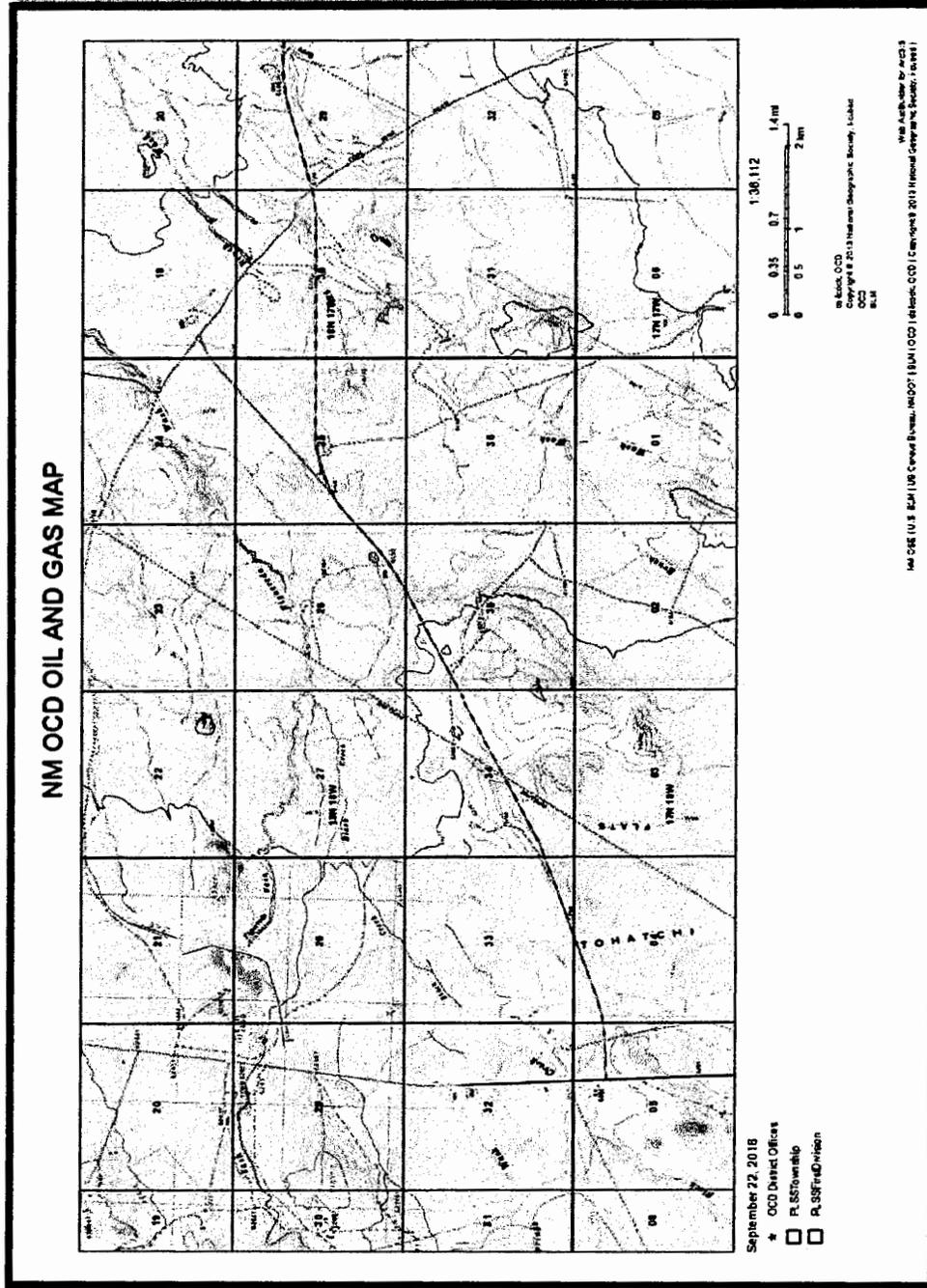
New Mexico Bureau of Geology & Mineral Resources, New Mexico Web Map

Available at: <http://geoinfo.nmt.edu/maps/#>. Accessed September 22, 2016.



New Mexico Oil Conservation Division, Oil and Gas Mapping Application

<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4a821bdf94c448e68b86a77d0750e7cc>. Accessed September 22, 2016.



APPENDIX E

Property Photographs



Photo 1. Near the southern terminus of Reach 10. Navajo Service Route 9 is to the right.

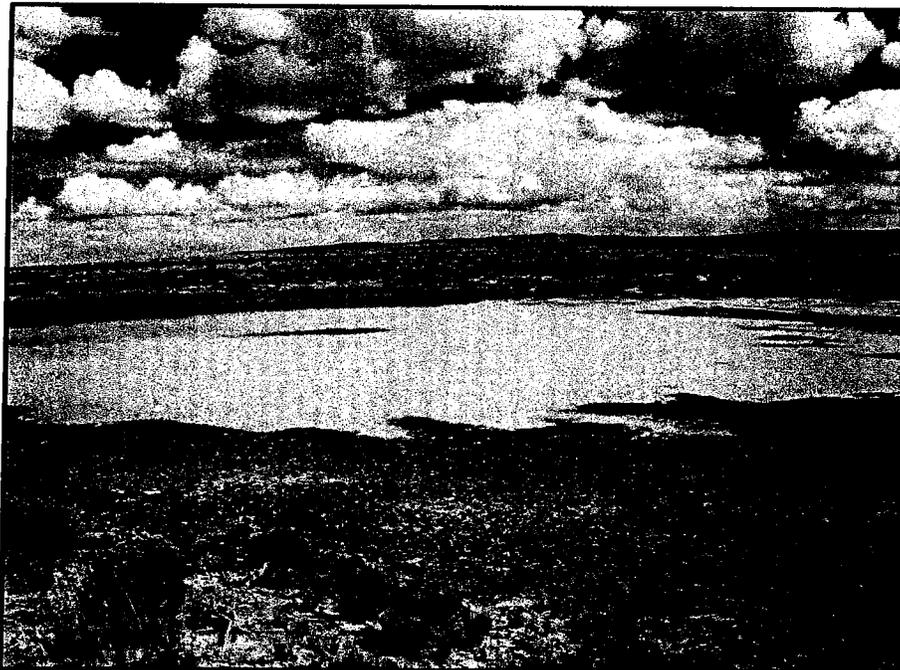


Photo 2. A watering hole just east of the Reach 10 corridor.



Photo 3. This flowing spring was just west of the Reach 10 corridor.

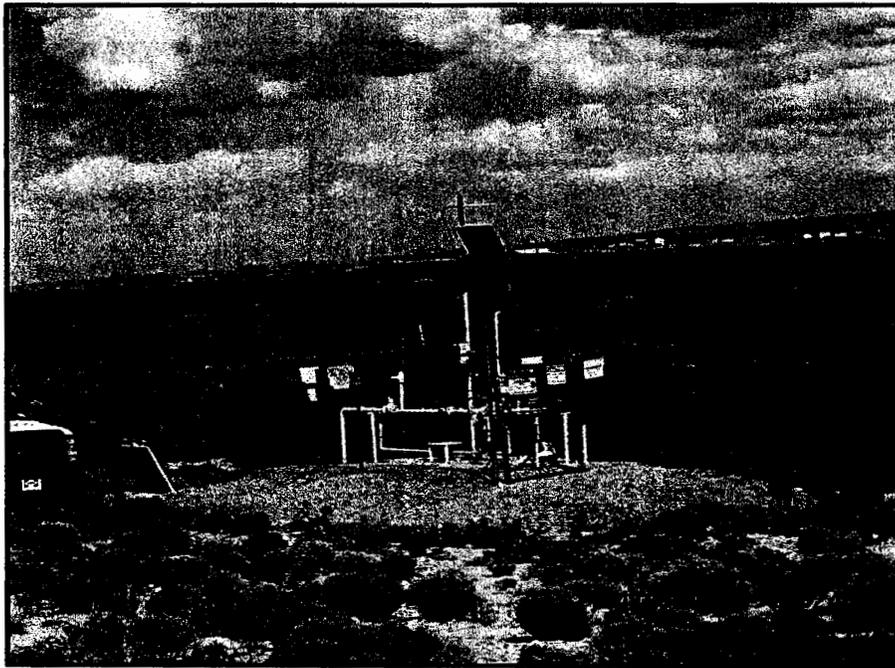


Photo 4. This natural gas valve station was within the parallel gas pipeline corridor.



Photo 5. This rock and other debris was west of the parallel pipeline corridor, near the northern end of Reach 10.

APPENDIX F

Correspondence

Navajo Gallup Water Supply Project
Reach 10 – Phone Interview
October 6th, 2016

Name of Interviewer: Noel Tamboer, Nelson Consulting, Inc.

Name of Interviewee: MRutheyi Thompson, Bureau of Reclamation

The purpose of this investigation is to identify potential sources of environmental contamination along the subject property in question and to further inquire about the extent of contamination at each site. According to MRutheyi Thompson, with the Bureau of Reclamation, partially due to the length of this Reach, there really wasn't much cause for concern on the subject property.

MRutheyi mentioned one potential site. This is at the north end of the Reach, just south of the end of Reach 9. There is fairly substantial solar-powered pump station perhaps belonging to Kinder-Morgan (she could not confirm). No established information about this was located, could require further investigation.

Adapted from: *Environmental Compliance Memorandum No. ECM 10-2. Pre-Acquisition Environmental Assessment Guidance for Federal Land Transactions. Appendix A: Land Acquisition Screening Process Worksheets, Worksheet 2: Interviews with Past and Present Owners, Operators, and Occupants.* USDA Department of the Interior, 2010.

Person Interviewed: Ryan Gladden

Date of Interview: Week of September 26th, 2016

Via Phone or Email? Email, phone call if needed

Person Conducting Interview: Noel Tamboer

Site Name: NGWSP (Reaches 9, 10, 11, and 12.2)

1. Has any part of property ever been used for an industrial or commercial use (e.g., official and unofficial shooting ranges; processing, handling, management, disposal, storage, manufacture, or transportation of hazardous substances or petroleum products, such as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photographic developing laboratory, methamphetamine laboratory, junkyard, bone yard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility)? I am only aware of the Compressor Station on Reach 9 that would have potentially handled any hazardous substances. I was told by a resident whose family has lived nearby for many years that they used to see the operators (El Paso back then I believe) dump something around that area. Whether it was hazardous or not the resident did not know and it was referred to as last happening maybe in the late 80's or early 90's. I believe Kinder Morgan's lines are all natural gas and I am not sure if they deal with petroleum products within our reaches or what, if any, hazardous substances result from pumping the gas onwards at the compressor station.
2. Has there ever been mining activity or oil and gas exploration or development on any part of the property? Yes there are high pressured gas lines that run along reach 9, 10, and 11. The compressor station is on reach 9. There are some gas wells scattered around. Other than that, I am not aware of any other gas or oil exploration.
3. When was the KMI pipeline installed? What does it carry? Have there been any known leaks, spills, cleanups, etc? Do you have a contact for the pipeline we could speak with? (Reaches 9/10/11 only) I do not know of any spills, leaks, cleanups. I believe all of their production is Gas in that area. If I remember right, it seems at least some of the gaslines were 40 or 50 years old possibly. I believe I was told this by one of the Kinder Morgan employees. You can speak with Larry Macias who has been helpful with me. His email is larry_macias@kindermorgan.com (I do not have a phone number) or David Haynes at 505-722-3605.

4. Has any part of the property ever been used for agricultural purposes, such as livestock or crops? Are there known livestock dip vats? If so, are the locations known? I have seen livestock about, but not any evidence of any dip vats, or if they ever existed within any reaches.
5. Do the current operations on the property involve the use and storage of chemicals? I do not know for certain.
6. Are there any past operations at the property that involved the use or storage of hazardous materials and substances? I do not know.
7. Has there been a known spill or release of hazardous substances, petroleum products, or other potential environmental problems on any part of the property? Not that I am aware of.
8. If yes, has the release been mitigated? If yes, describe the mitigation, and indicate if the lead regulatory agency issued a no-further action determination. I do not know.
9. Has fill material ever been brought onto the property that originated from a contaminated site or that was of an unknown origin? Not that I am aware of.
10. Is there any evidence that waste materials were dumped above grade, buried, or burned, either currently or previously, on the property? Examples include hazardous materials, petroleum products, labeled or unlabeled drums or containers, pesticide containers, household and farm debris, automotive or industrial batteries, building demolition debris, or other waste materials. There are trash dumping sites periodically along site. A lot of garbage has been dumped on reach 11 near the large wash. I did not look for or notice any hazardous materials.
11. Are there current or past use of above-ground or underground storage tanks, including drums or other fuel containers, on the property? If yes, where, when, the types and quantities of materials stored? Was there ever a spill or release of hazardous substances associated with the tank system? Was it mitigated to the satisfaction of the lead regulatory agency? I am only aware

of the above grade pads at the Compressor station on reach 9 where tanks may have been located and used to store materials. I do not know what would have been stored.

12. Are you aware of any hazardous substance or pollutant or contaminant spill or release, or other potential environmental problems on any adjacent or nearby properties? Are you aware of contamination or residual contamination on adjacent or nearby properties that poses a threat or may pose a future threat to the property? No I am not aware of any contamination or residual contamination on adjacent or nearby properties.
13. Have contaminants ever been identified in on-site or adjacent drinking water wells or water systems, that exceeded acceptable levels? I do not know.
14. Does the property have any groundwater monitoring wells? If yes, explain the purpose of the wells. I do not know.
15. Has any part of the property itself ever had a septic systems or sewage lagoon? Not in our ROW that I am aware of. There is an abandoned lagoon near our ROW on Reach 11 and one near the start of reach 9 in Naschitti.
16. Are you aware of any environmental liens or environmental activity and land use limitations against the property that were filed or recorded under Federal, Tribal, State or local law? I am not aware.

Reach-Specific Questions:

Reach 9:

Old waste lagoons were identified north of Naschitti, what were these used for? When were they in use? When closed? Were they properly abandoned? Any known contamination to groundwater from the lagoons? I am not aware of any contamination. I do not know about their history. I assume they were used for the community of Naschitti and I do not know if they were properly abandoned.

DOT Facility west of 491 in the middle of the reach: Any known spills, leaks, cleanups there? There appear to be a few aboveground storage tanks (ASTs) – were there ever any underground storage tanks (USTs) there? I do not know.

Compressor station: When was it installed? What were the pits and lagoons used for? Were they lined or unlined? Are any still in use? Are there any known leaks, spills, or sources of contamination there? Do you have a contact for the compressor station we could speak with? I would use the contacts listed above for Kinder Morgan. I do not know the answer to these questions.

Reach 10: None.

Reach 11:

Lagoons northeast of Twin Lakes: What were they used for? Were they lined or unlined? Are any still in use? Are there any known leaks, spills, or sources of contamination there? I do not know. No, I do not believe they are in use.

Reach 12-2:

The coal mine: years of operation? Any known downstream contamination? Any problems with the areas that have been reclaimed where the corridor crosses through?

Speedy Gas Station at the east end: What is the current status of the cleanup?

Junkyard on a hilltop 1/2 mile north, up Star Route 5: Any known issues that could affect the corridor?

Any septic systems on or adjacent to the corridor?

**PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)
USER QUESTIONNAIRE**

Completed by:
[Gary Vance, USBR]

Date: [10/3/2016]

Re: Phase I Environmental Site Assessment for NGWSP: Reaches 9, 10, 11, 12.2

INTRODUCTION

In order to qualify for one of the *Landowner Liability Protections (LLPs)*¹ offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments")², the *user* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The *user* should provide the following information to the *environmental professional*. Failure to conduct these inquiries could result in a determination that "*all appropriate inquiries*" is not complete.

The *user* is defined as "the party seeking to use Practice E1527 to complete an *environmental site assessment* of the *property*. A *user* may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an owner of *property*, a lender, or a *property* manager. The *user* has specific obligations for completing a successful application of this practice outlined in Section 6" of ASTM Standard E1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

1) Environmental cleanup liens that are filed or recorded against the *property* (40 CFR 312.25) – Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed against the *property* under federal, tribal, state, or local law? () Yes () No If yes, please describe:

I did not complete a search of recorded land title records.

Note 1 – In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

2) Activity and land use limitations that are in place on the *property* or that have been filed or recorded against the *property* (40 CFR 312.26(a)(1)(v) and vi) – Did a search of *recorded land title records* (or judicial records where appropriate, see Note 1 above) identify any Activity and Use Limitations (AULs), such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the *property* and/or have been filed or recorded against the *property* under federal, tribal, state or local law? () Yes () No. If yes, please describe:

I did not complete a search of recorded land title records.

¹ *Landowner Liability Protections, or LLPs*, is the term used to describe the three types of potential defenses to Superfund liability in EPA's *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability ("Common Elements" Guide)* issued on March 6, 2003.

² Public Law 107-118.

3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28) - Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business? () Yes (X) No If yes, please explain:

4) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29) – Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? () Yes () No If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? () Yes () No If yes, please describe:

I do not have any responsibility for the purchase price.

5) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30) – Are you aware of commonly known or *reasonably ascertainable* information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*,

- a. Do you know the past uses of the *property*?
No
- b. Do you know of specific chemicals that are present or once were present at the *property*?
Asbestos coating from the Helium pipeline.
- c. Do you know of spills or other chemical releases that have taken place at the *property*?
No
- d. Do you know of any environmental cleanups that have taken place at the *property*?
No
- e. Do you know of any previous Phase I Environmental Site Assessment performed for the *property*? () Yes (X) No. If yes, can copies be provided?
- f. If available, please provide contact information for someone knowledgeable about past uses of the *property* (present or past owner, operator or occupant).
N/A

6) The degree of obviousness of the presence of likely presence of contamination at the *property*, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31) – Based on your knowledge and experience related to the *property* are

there any *obvious* indicators that point to the presence or likely presence of releases at the property? (X) Yes () No If yes, please describe:

The asbestos wrapped Helium pipeline daylight and is visible periodically from Gallup, NM up toward Shiprock, NM.

Record of Contacts for Additional Interviews regarding Reach 10 of the NGWSP.

Conducted by: Steve O'Brien, SWCA

Date: Week of November 7, 2016

Geoff Heidke in the Kinder Morgan (KMI) ROW department
(505) 831-7770 / geoff_heidke@kindermorgan.com

Called him 11/7. He said contact Larry ___ in operations, who would be more local. Was not at his computer and said to send an email, which I did.

Email from G. Heidke on 11/8: Call Larry Macias, Operations Manager

Larry Macias, KMI Operations Manager

Office: 505-722-3634. Cell: 505-870-0877

Called him 11/8 and left message. Larry called me 11/9. Said:

- We spoke about the compressor station and pipeline history.
- Regarding all of the KMI pipeline in NW New Mexico, there have been no leaks, spills, or known contamination.
- The exposed pipelines in dry washes are not a concern, especially since the soil is sandy – there aren't moving boulders, etc. to potentially damage the lines.

Ronnie Ben, Navajo Nation EPA Surface and Groundwater Protection

ronnieben@navajo-nsn.gov (928) 871-7701

Called him 11/7 left msg. He passed my info to Patrick Antonio, who called me 11/9

Patrick Antonio, NN Water Quality ADPS Program

patrickantonio@navajo-nsn.gov.

- We spoke about several Reaches of the NGWSP.
- Regarding Reach 10, he didn't know of any concerns related to contamination along the corridor.



United States Department of the Interior

BUREAU OF RECLAMATION

Western Colorado Area Office
Durango Field Division
185 Suttle Street, Suite 2
Durango, Colorado 81303-7911

IN REPLY REFER TO:

WCD-GHaymes
ENV-3.00

APR 25 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Dr. Ora Marek-Martinez
Tribal Historic Preservation Officer
Navajo Nation Historic Preservation Department
P.O. Box 4950
Window Rock, Arizona 86515

Subject: National Historic Preservation Act (NHPA) Section 106 Consultation for *The Navajo-Gallup Water Supply Project (NGWSP), Class III Inventory and Ethnographic Summary for the San Juan Lateral, Volume II: Reaches 9-11, Navajo Nation and McKinley County, New Mexico.*

Dear Dr. Marek-Martinez:

The Bureau of Reclamation is initiating consultation with your office under the *Programmatic Agreement Among The Bureau of Reclamation, The Advisory Council on Historic Preservation, The New Mexico State Historic Preservation Officer, The Navajo Nation, The Bureau of Land Management, and The Bureau of Indian Affairs Regarding the Consideration and Management of Effects On Historic Properties Arising from Construction of the Navajo-Gallup Water Supply Project, New Mexico (NGWSP PA)*, an alternative to the implementing regulations of NHPA Section 106 at 36 C.F.R. Part 800. The undertaking and identified historic properties within its area of potential effect (APE) have been addressed in a report by permitted firm PaleoWest Archaeology, LLC., *The Navajo-Gallup Water Supply Project, Class III Inventory and Ethnographic Summary for the San Juan Lateral, Volume II: Reaches 9-11, Navajo Nation and McKinley County, New Mexico*, PaleoWest Technical Report No. 15-15. Reclamation submits the draft Class III cultural resources inventory report for your review and comment. The enclosed report addresses identification efforts along Reaches 9, 10, and 11 of the NGWSP San Juan Lateral, encompassing a total APE of 28.4 miles x 400 feet, or 1,377 acres, entirely on Navajo Nation surface.

This inventory resulted in the recording of 131 archaeological sites, 67 isolated occurrences (IOs), 18 in-use sites (IUSs), 11 Traditional Cultural Properties (TCPs), and 8 Jishchaa' locations. Properties and locations other than archaeological sites are reported or summarized in tables within the report. Archaeological sites are discussed in greater detail. Archaeological sites, associated reach numbers, brief descriptions, and tentative determinations of eligibility for listing on the National Register of Historic Places (NRHP) appear in the three tables below. The

report and forms associated with the Navajo ethnography (TCPs and Jishchaa') are confidential and only submitted to the Navajo Nation Historic Preservation Department (NNHPD).

Reach 9

Legal location: T21N, R17W; Sec. 8, 17, 20, 28-29, 33; T20N, R17W; Sec. 4, 9, 16, 21, 28, 33; T19N, R17W; Sec. 4, 9, 16, 20-21, 28-29, 31-32.

A total of 67 IOs, 9 IUSs, 8 TCPs, 6 Jishchaa' locations, and 83 archaeological sites were located on Reach 9. Details regarding the latter are provided in the table below.

Site No.	Site Type	Site Description	NRHP Eligible?
LA2505	Prehistoric Structural	Anasazi (A.D. 900-1200)	Yes
LA32936	Prehistoric Structural	Anasazi (A.D. 775-950)	Yes
LA32939	Prehistoric Structural	Anasazi (A.D. 500- A.D. 1300)	Yes
LA32941	Historic Structural	Unknown historic (A.D. 1950-1980)	No
LA5203	Prehistoric Structural	Anasazi (A.D. 900-1300)	No
LA5204	Prehistoric Structural	Anasazi (A.D. 700-1100)	No
LA71884	Prehistoric Non-structural	Anasazi (A.D. 500-1300)	Need data
LA71888	Prehistoric Non-structural	Anasazi (A.D. 800-1000)	Need data
LA80404	Prehistoric Non-structural	Anasazi (A.D. 900-1200)	No
LA80406	Prehistoric Structural	Anasazi (A.D. 500-700) Anasazi (A.D. 900-1300)	Yes
LA80407	Prehistoric Non-structural	Anasazi (A.D. 500-1100)	Yes
LA80408	Prehistoric/Historic Structural	Anasazi (A.D. 1000-1200) Navajo (A.D. 1960-1970)	Yes
LA80409 (Connected with TCP R9-07)	Historic Structural	Navajo (A.D. 1950-1980)	No
LA80410	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-900) Navajo (A.D. 1930-1950)	Yes
LA80412	Prehistoric Non-structural	Anasazi (A.D. 500-1100)	No
LA80413	Prehistoric/Historic Non-structural	Anasazi (A.D. 500-1100) Navajo (A.D. 1692-1868)	No
LA80414	Prehistoric Non-structural	Anasazi (A.D. 700-1000)	No
LA80415	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
LA80951	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
NM-H-62-101 (LA32935)	Prehistoric Structural	Anasazi (A.D. 500-1100)	Yes
NM-H-62-102 (LA145987)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
NM-H-62-104 (LA32931) (TCP R9-03 within site boundary)	Prehistoric/Historic Structural	Anasazi (A.D. 500-900) Navajo (A.D. 1900-1960)	Yes
NM-H-62-105 (LA145988) (Crossed by TCP R9-01)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1200) Navajo (A.D. 1937-1980)	Yes
NM-H-62-106 (LA145989)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Need data

NM-H-62-99 (LA145985)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
NM-Q-3-66 (LA32949)	Prehistoric/Historic Structural	Anasazi (A.D. 800-1100) Navajo (A.D. 1960-1980)	Yes
NM-Q-3-68 (LA32948)	Historic Non-structural	Navajo and Anglo/EuroAmerican (A.D. 1930-present)	Need data
NM-Q-3-7 (LA74503)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
NM-Q-3-70 (LA145982)	Historic Structural	Navajo (A.D. 1880-1920)	Yes
NM-Q-3-71 (LA32944)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
NM-Q-3-72 (LA32943)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1200) Navajo (A.D. 1692-1753)	Yes
NM-Q-3-73 (LA32942)	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
NM-Q-3-76 (LA145984)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
R9-02	Historic Non-structural	Navajo (A.D. 1945-1960)	No
R9-04 (Crossed by TCP R9-01)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1300) Navajo (A.D. 1960-1980)	Yes
R9-05	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
R9-07 (Also includes IUS R9-08)	Prehistoric/Historic Structural	Anasazi (A.D. 700-1100) Navajo (A.D. 1980-present)	Yes
R9-09	Prehistoric Non-structural	Anasazi (A.D. 875-975)	No
R9-10 (Crossed by TCP R9-01)	Historic Structural	Navajo (A.D. 1950s-1960s)	No
R9-11	Prehistoric Structural	Anasazi (A.D. 750-1000)	Yes
R9-13	Prehistoric Non-structural	Anasazi (A.D. 550-1175)	Yes
R9-14	Prehistoric/Historic Structural	Anasazi (A.D. 500-700) Navajo (A.D. 1880-1960)	Yes
R9-15	Prehistoric Structural	Anasazi (A.D. 1050-1230)	Yes
R9-16	Prehistoric Non-structural	Anasazi (A.D. 975-1175)	Yes
R9-17	Prehistoric Non-structural	Anasazi (A.D. 700-900)	No
R9-19	Prehistoric Non-structural	Anasazi (A.D. 750-900)	No
R9-20 (Contains B9-03)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1100). Navajo (A.D. 1912-present)	Yes
R9-21	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
R9-23 (Crossed by TCP R9-01)	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
R9-24	Prehistoric Structural	Unknown prehistoric	Yes
R9-25	Prehistoric Non-structural	Anasazi (A.D. 775-1175)	Yes
R9-26	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
R9-27	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
R9-29	Prehistoric Non-structural	Anasazi (A.D. 500-900)	Yes
R9-30	Prehistoric Structural	Anasazi (A.D. 700-1100)	Need data
R9-31	Prehistoric Non-structural	Anasazi (A.D. 500-1100)	Yes
R9-32	Prehistoric Non-structural	Anasazi (A.D. 500-700)	Need data
R9-33	Prehistoric Non-structural	Anasazi (A.D. 875-975)	Need data
R9-34	Prehistoric Non-structural	Anasazi (A.D. 550-900)	Yes

R9-35	Prehistoric/Historic Structural	Anasazi (A.D. 700-900) Navajo (A.D. 1930s-1970)	Yes
R9-38	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
R9-40	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
R9-41	Prehistoric Non-structural	Anasazi (A.D. 1050-1300)	Need data
R9-42	Prehistoric Non-structural	Anasazi (A.D. 900-1200)	Need data
R9-44	Historic Non-structural	Navajo (A.D. 1965-present)	No
R9-46	Prehistoric Non-structural	Anasazi (A.D. 500-700)	Need data
R9-47	Prehistoric Non-structural	Anasazi (A.D. 550-900)	Yes
R9-51	Prehistoric Non-structural	Unknown prehistoric	Yes
R9-52	Prehistoric Structural	Anasazi (A.D. 900-1300)	Yes
R9-54	Prehistoric Non-structural	Anasazi (A.D. 900-1300)	No
R9-55	Prehistoric Non-structural	Anasazi (A.D. 750-900)	Need data
R9-57	Unknown Non-structural	Unknown prehistoric	Yes
R9-58	Prehistoric/Historic Structural	Anasazi (A.D. 900-1300) Navajo (A.D. 1880-1940)	Yes
R9-60	Prehistoric Structural	Anasazi (A.D. 500-1300)	Need data
R9-61	Prehistoric Structural	Anasazi (A.D. 900-1200)	Need data
R9-62	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
R9-65	Prehistoric Structural	Anasazi (A.D. 500-1300)	Yes
R9-66	Prehistoric/Historic Non-structural	Anasazi (A.D. 500-1300) Navajo (A.D. 1600-present)	Yes
R9-67	Prehistoric Non-structural	Anasazi (A.D. 550-900)	Yes
R9-69 (Crossed by TCP R9-01)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Yes
R9-71	Prehistoric Structural	Unknown prehistoric (B.C. 8000-A.D. 1540)	Need data
R9-73	Prehistoric Structural	Anasazi (A.D. 900-1100)	Yes
R9-75 (Crossed by TCP R9-01)	Prehistoric Non-structural	Anasazi (A.D. 750-900)	Yes

Reach 10

Legal location: T18N, R17W; Sec. 6-7; T18N, R18W; Sec. 12-13, 23-24, 26-27, 34.

A total of 10 IOs, 0 IUSs, 1 TCP, 0 Jishchaa' locations, and 31 archaeological sites were located on Reach 10. Details regarding the latter are provided in the table below.

Site No.	Site Type	Site Description	NRHP Eligible?
LA11610	Prehistoric Structural	Anasazi (A.D. 500-700) Anasazi (A.D. 900-1100)	Yes
LA2033	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Need data
LA2506	Prehistoric Structural	Anasazi (A.D. 500-1100) Navajo (A.D. 1950-1970)	Yes
LA2507	Prehistoric/Historic Structural	Anasazi (A.D. 600-850) Navajo (A.D. 1900-1980's)	Yes
LA2508	Prehistoric Structural	Anasazi (A.D. 550-1150)	Yes
LA6444	Prehistoric/Historic Structural	Anasazi (A.D. 500-1100) Navajo (A.D. 1945- Present)	Yes
LA80416	Prehistoric/Historic Structural	Anasazi (A.D. 500-1100) Navajo (A.D. 1945-1995)	Yes

LA80422	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Navajo (A.D.1900- Present)	Yes
LA80424	Prehistoric Structural	Anasazi (A.D.500-900)	Yes
LA80425	Prehistoric Structural	Anasazi (A.D.550-1150) Navajo (A.D.1960's- 1980's)	Yes
LA80430	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1950)	Yes
LA80432	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
R10-01	Prehistoric/Historic Structural	Anasazi (A.D.900-1100) Navajo (A.D.1900-1960's)	Yes
R10-03	Prehistoric Non-structural	Anasazi (A.D.900-1200)	Need data
R10-05	Prehistoric Structural	Anasazi (A.D.900-1100)	Yes
R10-11	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1300)	Yes
R10-19	Historic Structural	Navajo (A.D.1950's- 1970's)	Yes
R10-21	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
R10-23	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
R10-25	Prehistoric/Historic Structural	Anasazi (A.D.700-900) Navajo (A.D.1990-present)	Yes
R10-27	Prehistoric/Historic Structural	Anasazi (A.D.550-950) Navajo (A.D.1880-1915)	Yes
R10-29	Prehistoric/Historic Structural	Anasazi (A.D.550-1150) Navajo (Unknown historic- Present)	Yes
R10-31	Prehistoric Non-structural	Anasazi (A.D.550-900)	Yes
R10-33	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Yes
R10-35	Prehistoric Structural	Anasazi (A.D.1000-1200)	Yes
R10-37	Prehistoric Non-structural	Anasazi (A.D.700-1100)	Need data
R10-39	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1912-1960)	Yes
R10-49	Prehistoric Non-structural	Anasazi (A.D.500-900)	Need data
R10-57	Prehistoric Structural	Anasazi (A.D.500-1100)	Yes
R10-61	Prehistoric Structural	Anasazi (A.D.700-900)	Yes
LA11610	Prehistoric Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1100)	Yes
LA2033	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
LA2506	Prehistoric Structural	Anasazi (A.D.500-1100) Navajo (A.D.1950-1970)	Yes
LA2507	Prehistoric/Historic Structural	Anasazi (A.D.600-850) Navajo (A.D.1900-1980's)	Yes
LA2508	Prehistoric Structural	Anasazi (A.D.550-1150)	Yes
LA6444	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945- Present)	Yes
LA80416	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1995)	Yes
LA80422	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Navajo (A.D.1900- Present)	Yes
LA80424	Prehistoric Structural	Anasazi (A.D.500-900)	Yes
LA80425	Prehistoric Structural	Anasazi (A.D.550-1150) Navajo (A.D.1960's-1980's)	Yes
LA80430	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1950)	Yes
LA80432	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
R10-01	Prehistoric/Historic Structural	Anasazi (A.D.900-1100) Navajo (A.D.1900-1960's)	Yes
R10-03	Prehistoric Non-structural	Anasazi (A.D.900-1200)	Need data

R10-05	Prehistoric Structural	Anasazi (A.D.900-1100)	Yes
R10-11	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1300)	Yes
R10-19	Historic Structural	Navajo (A.D.1950's-1970's)	Yes
R10-21	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
R10-23	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
R10-25	Prehistoric/Historic Structural	Anasazi (A.D.700-900) Navajo (A.D.1990-present)	Yes
R10-27	Prehistoric/Historic Structural	Anasazi (A.D.550-950) Navajo (A.D.1880-1915)	Yes
R10-29	Prehistoric/Historic Structural	Anasazi (A.D.550-1150) Navajo (Unknown historic- Present)	Yes
R10-31	Prehistoric Non-structural	Anasazi (A.D.550-900)	Yes
R10-33	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Yes
R10-35	Prehistoric Structural	Anasazi (A.D.1000-1200)	Yes
R10-37	Prehistoric Non-structural	Anasazi (A.D.700-1100)	Need data
R10-39	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1912-1960)	Yes
R10-49	Prehistoric Non-structural	Anasazi (A.D.500-900)	Need data
R10-57	Prehistoric Structural	Anasazi (A.D.500-1100)	Yes
R10-61	Prehistoric Structural	Anasazi (A.D.700-900)	Yes

Reach 11

Legal location: T18N, R18W; Sec. 26-27, 34; T17N, R18W; Sec. 3-4, 9, 16-17

A total of 17 IOs, 9 IUSs, 2 TCPs, 2 Jishchaa' locations, and 17 archaeological sites were located on Reach 11. Details regarding the latter are provided in the table below.

Site No.	Site Type	Site Description	NRHP Eligible?
LA6448	Prehistoric Non-structural	Anasazi (A.D.1-500)	Yes
LA80433	Prehistoric Structural	Anasazi (A.D.900-1100)	Yes
LA80434	Prehistoric Structural	Anasazi (A.D.500-700) Anasazi (A.D.1000-1200)	Yes
R11-01	Historic/Modern Non-structural	Navajo (A.D.1970-1980)	No
R11-02	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
R11-03	Historic/Modern Structural	Navajo (A.D.1970's-2000's)	No
R11-04	Prehistoric Non-structural Historic/Modern Non-structural	Anasazi (A.D.900-1100) Navajo (A.D.1950-1970)	Need data
R11-06	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
R11-07	Historic Structural	Navajo (A.D.1950-1980)	No

R11-12	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
R11-17	Prehistoric Structural Historic/Modern Structural	Anasazi (A.D.1-1300) Navajo (A.D.1950-1970)	Need data
R11-21	Historic Structural	Navajo (A.D.1912-1965)	Yes
R11-23	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
R11-24 (contains Jishchaa' B11- 02)	Prehistoric Structural Historic/Modern Structural	Anasazi (A.D.900-1200) Navajo (A.D.1930-1980)	Yes
R11-25	Prehistoric Structural	Anasazi (A.D.500-900)	Yes
R11-26	Prehistoric Structural Historic/Modern Structural	Anasazi (A.D.500-700) Navajo (A.D.1940-present)	Yes
R11-28	Historic/Modern Structural	Navajo (A.D.1960-present)	No

Reclamation requests concurrence and comments regarding our determinations of eligibility for properties identified during this project. Reclamation will consult with other NGWSP PA signatories about this project to solicit general comments while recognizing that official determinations of eligibility remain the prerogative of Navajo Nation. Per the terms of the NGWSP PA, Reclamation requests concurrence or comments within 30 days of receipt. In the absence of a response, concurrence with Reclamation's findings may be assumed after this period of time.

Your determination of concurrence and reason(s) may be noted in the area provided below. As realignments may be introduced to maximize the avoidance of sites officially determined potentially eligible or eligible for NRHP listing, Reclamation will consult with your office regarding the undertaking's effects on the identified resources at a later time. If you have general questions or comments, or wish to engage in further consultation regarding this undertaking, please contact Geoffrey Haymes at 970-385-6571 or ghaymes@usbr.gov or Lead Archaeologist Ernest Rheume at 970-385-6521 or erheume@usbr.gov.

Sincerely,

ED WARNER

Ed Warner
Area Manager

I Concur

with commentari meeting on this day. Some site
eligibilities have been changed. A new letter will be
forthcoming with changes

Jamarah

8/30/16

~~Dr. Ora Marek-Martinez~~

Date

Navajo Nation Tribal Historic Preservation Officer

Comments:

bc: WCG-EWarner, WCG-KOzga, WCD-RWaldman, WCD-ERheaume, WCD-KBowen

Official File Copy

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OCT 11 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Honorable Kurt Riley
Governor
Pueblo of Acoma
P.O. Box 309
Pueblo of Acoma, NM 87034

Subject: Partial Results of National Historic Preservation Act (NHPA) Section 106 Consultation for *The Navajo-Gallup Water Supply Project (NGWSP), Class III Inventory and Ethnographic Summary for the San Juan Lateral, Volume I: Reaches 3-8, Hogback Diversion, and Shiprock Connection, and Volume II: Reaches 9-11, Navajo Nation, McKinley and San Juan Counties, New Mexico: Determinations of Site Eligibility.*

Dear Governor Riley:

The Bureau of Reclamation is providing notification of the results of past consultation with the Navajo Nation Tribal Historic Preservation Officer (THPO) and the NGWSP Programmatic Agreement (PA) Workgroup under the *Programmatic Agreement Among The Bureau of Reclamation, The Advisory Council on Historic Preservation, The New Mexico State Historic Preservation Officer, The Navajo Nation, The Bureau of Land Management, and the Bureau of Indian Affairs Regarding the Consideration and Management of Effects On Historic Properties Arising from Construction of the Navajo-Gallup Water Supply Project, New Mexico (NGWSP PA)*, an alternative to the implementing regulations of NHPA Section 106 at 36 C.F.R. Part 800. The tables below provide basic information and formal determinations of eligibility for historic properties previously identified along the Hogback Lateral and Reaches 3, 4, 5, 6, 7, 8, 9, 10, and 11 of the NGWSP San Juan Lateral, encompassing a total APE of 101.9 miles, or 4981 acres, entirely on Navajo Nation surface.

The two recording Class III inventories and associated studies, collected in PaleoWest Archaeology **Technical Reports No. 15-14 and No. 15-15**, resulted in the recording of 281 archaeological sites, 498 isolated occurrences (IOs), 61 in-use sites (IUSs), 29 Navajo Traditional Cultural Properties (TCPs), and 26 Jishchaa' locations. Requests for consultation and copies of the draft reports were sent to members of the PA Workgroup on April 21 and April 25, 2016. Properties and locations other than archaeological sites are reported or summarized in tables within the reports. Archaeological sites were discussed in greater detail. Archaeological sites, associated reach numbers, brief descriptions, and final determinations of eligibility for listing on the National Register of Historic Places (NRHP) appear in the 10 tables below. The determinations of eligibility given below are based on the recording archaeologists' recommendations, Reclamation's tentative determinations, responses received to Reclamation's written requests for information dated April 21 and April 25, 2016, comments received during PA Workgroup meetings, and consultation with the Navajo Nation THPO.

Reach 3 Sites

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-19-10	Modern Non-structural	Navajo (A.D. 1977-1989)	Not Eligible
NM-H-19-11	Prehistoric Non-structural	Anasazi (A.D. 925-1150)	Need Data
NM-H-19-12	Prehistoric/Modern Non-structural	Anasazi (A.D. 1030-1150) Navajo (A.D. 1975-1985)	Need Data
NM-H-19-13	Historic Non-structural	Anglo/Euro-American/Navajo (A.D. 1950-1975)	Not Eligible
NM-H-20-157	Modern Structural	Navajo (A.D. 1970-1980)	Not Eligible
NM-H-20-158 (Also TCP R3&SC-01)	Modern Structural	Navajo (A.D. 1964-1980)	Eligible
NM-H-20-159	Prehistoric Non-structural	Anasazi (A.D. 925-1300)	Need Data
NM-H-20-160	Prehistoric/Historic Non-structural	Anasazi (A.D. 1000-1175) Anglo/Euro-American (A.D. 1940-1966)	Need Data
NM-H-20-161	Historic Non-structural	Unknown Historic (A.D. 1950-1990)	Not Eligible
NM-H-20-162	Historic non-structural	Anglo/Euro American/Navajo (A.D. 1955-1966)	Not Eligible
NM-H-20-163	Prehistoric non-structural	Anasazi (A.D. 925-1300)	Need Data
NM-H-20-164	Historic Structural	Navajo (A.D. 1905-1930)	Eligible
NM-H-20-165	Historic Structural	Anglo/Euro-American (A.D. 1900-1930)	Eligible
NM-H-20-166 (LA8390)	Prehistoric Structural	Anasazi (A.D. 900-1200)	Eligible
NM-H-20-167 (LA8391)	Prehistoric Structural	Anasazi (A.D. 1000-1175)	Eligible
NM-H-20-168 (LA8392)	Prehistoric Structural	Anasazi (A.D. 1000-1175)	Eligible
NM-H-20-169 (LA125594) (NM-H-20-53) (Within TCP HD-01 Locus E)	Prehistoric/Historic Structural	Anasazi (A.D. 875-950) Navajo (A.D. 1800-1970)	Eligible
NM-H-21-189	Historic Structural	Navajo (A.D. 1960-1990)	Eligible
NM-H-21-218	Historic Non-structural	Navajo (A.D. 1950-1965)	Not Eligible
NM-H-21-219	Historic Non-structural	Navajo (A.D. 1950-1990)	Not Eligible
NM-H-21-220	Historic Structural	Navajo (A.D. 1930-1970)	Eligible
NM-H-21-221 (LA45406) (Also TCP R3&SC-02)	Historic Structural	Navajo (A.D. 1948-1960)	Eligible

NM-H-21-222 (LA45408) (Also the location of Burial R3&SC- B1)	Prehistoric/Historic Structural	Anasazi (A.D. 925-1300) Navajo (A.D. 1900-1990)	Eligible
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Reach 4 Sites

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-30-7 (LA68970)	Historic Structural	Navajo (A.D. 1930s-1985)	Eligible
NM-H-30-21	Historic Structural	Anglo/Euro-American (A.D. 1920s-1967)	Eligible
NM-H-30-25 (LA46203) (TCP R4-01)	Historic Structural	Navajo (A.D. 1880-1945)	Eligible
NM-H-30-26	Historic Non-structural	Navajo (A.D. 1960-1975)	Not Eligible
NM-H-30-27	Historic Structural	Navajo (A.D. 1920-1970)	Not Eligible
NM-H-30-28	Historic Structural	Navajo (A.D. 1930s-2002)	Not Eligible
NM-H-30-29	Historic Structural	Navajo (A.D. 1940-1970)	Not Eligible
NM-H-30-30	Historic Structural	Navajo (A.D. 1920-1970)	Not Eligible
NM-H-30-31	Historic Structural	Navajo (A.D. 1955-1975)	Not Eligible
NM-H-30-32	Unknown Structural	Unknown	Need Data
NM-H-30-33	Prehistoric Non- structural	Archaic (4500-1500 B.C.)	Need Data
NM-H-30-34	Historic Structural	Navajo (A.D. 1929-1970)	Not Eligible
NM-H-30-35	Historic Non-structural	Navajo (A.D. 1945-1965)	Not Eligible
NM-H-30-36	Historic Structural	Navajo (A.D. 1960-1975)	Not Eligible
NM-H-30-37	Historic Non-structural	Unknown Historic (A.D. 1945-1965)	Not Eligible
NM-H-30-38	Historic Structural	Anglo/Euro-American (A.D. 1967-1980s)	Not Eligible
NM-H-30-39	Prehistoric Non- structural	Archaic (6000-3300 B.C.)	Need Data
NM-H-30-40	Prehistoric Structural	Anasazi (A.D. 900-1100)	Need Data
NM-H-30-41	Historic Structural	Navajo (A.D. 1880-1960)	Eligible
NM-H-35-39	Historic Structural	Anglo/Euro-American (A.D. 1964-1964)	Not Eligible

Hogback Diversion Sites (revised determinations of eligibility in bold)

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-20-124 (DCA-1498)	Historic Structural	Navajo (A.D. 1920-1960)	Eligible
NM-H-20-206	Historic Structural	Navajo (A.D. 1945-1990)	Not Eligible
NM-H-20-207	Historic Structural	Navajo (A.D. 1960-present)	Not Eligible
NM-H-20-208	Historic Structural	Navajo (A.D. 1950-1965)	Eligible
NM-H-20-209	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-20-210 (TCP HD-03)	Historic Structural	Navajo (A.D. 2000-2010)	Eligible
NM-H-20-211	Historic Structural	Navajo (A.D. 1912-Recent)	Need data
NM-H-20-212	Historic Non-structural	Navajo (A.D. 1955-1988)	Not Eligible
NM-H-20-213	Prehistoric Non-structural	Anasazi (A.D. 800-1100)	Eligible
NM-H-20-214	Historic Structural	Navajo (A.D. 1980-2000)	Not Eligible
NM-H-20-215	Prehistoric Structural	Anasazi (A.D. 700-1100)	Eligible

Reach 5 Sites (revised determinations of eligibility in bold)

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-35-31 (LA20038)	Prehistoric/Historic Structural	Anasazi (A.D. 700-1100) Navajo (A.D. 1925-Present)	Eligible
NM-H-35-32	Historic Structural	Navajo (A.D. 1880-1945)	Eligible
NM-H-35-33	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-1100) Anglo/Euro-American (A.D. 1945-Present)	Eligible
NM-H-35-34	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-1100) Anglo/Euro-American (A.D. 1945-Present)	Eligible
NM-H-35-35	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-35-36	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-1100) Anglo/Euro-American (A.D. 1945-Present)	Eligible
NM-H-35-37	Prehistoric/Historic Structural	Anasazi (A.D. 900-1100) Navajo (A.D. 1920-Present)	Eligible
NM-H-35-38	Historic Structural	Navajo (A.D. 1920-1945)	Eligible
NM-H-46-61 (LA145963)	Prehistoric Non-structural	Anasazi (A.D. 700-900) Anglo/Euro-American (A.D. 1945-Present)	Eligible
NM-H-46-63 (LA7322)	Prehistoric Structural	Anasazi (A.D. 900-1300) Anglo/Euro-American (A.D. 1940-1960)	Eligible

NM-H-46-101 (LA16026)	Prehistoric Non-structural	Anasazi (A.D. 700-1100)	Eligible
NM-H-46-102 (LA16029)	Prehistoric/Historic Structural	Anasazi (A.D. 500-700) Navajo (A.D. 1920-Present)	Eligible
NM-H-46-103 (LA7321)	Prehistoric Structural	Anasazi (A.D. 900-1100) Anglo/Euro-American (A.D. 1950-1980)	Eligible
NM-H-46-104	Prehistoric Structural	Anasazi (A.D. 500-900) Anglo/Euro-American (A.D. 1920-1960)	Eligible
NM-H-46-105	Prehistoric/Historic Structural	Anasazi (A.D. 700-1100) Navajo (A.D. 1920-1945)	Eligible
NM-H-46-106	Prehistoric/Historic Structural	Anasazi (A.D. 900-1100) Navajo (A.D. 1920-1945)	Eligible
NM-H-46-107	Prehistoric/Historic Structural	Anasazi (A.D. 700-1100) Navajo (A.D. 1920-1945)	Eligible
NM-H-46-108	Historic Non-structural	Anglo/Euro-American (A.D. ca. 1942-Present)	Not Eligible
NM-H-46-109	Prehistoric Non-structural	Anasazi (A.D. 700-1100)	Eligible
NM-H-46-110	Historic Structural	Anglo/Euro-American (A.D. 1846-Present)	Eligible
NM-H-46-111	Historic Non-structural	Anglo/Euro-American (A.D. 1926-May 31, 2003)	Not Eligible
Newby Expedition Camp	Prehistoric Non-structural/ Historic Structural	Anasazi (A.D. 500-1150) Navajo/Euro-American (A.D. 1800-1965)	Eligible

Reach 6 Sites (revised determinations of eligibility in bold)

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-46-84 (LA14898)	Historic Non-structural	Navajo (A.D. 1935-1945)	Not Eligible
NM-H-46-85 (LA36109)	Prehistoric Structural	Anasazi (A.D. 700-1300)	Eligible
NM-H-46-86 (LA36110)	Prehistoric/Historic Non-structural	Anasazi (A.D. 900-1100)	Need Data
NM-H-46-87 (LA7113)	Prehistoric/Historic Structural	Anasazi (A.D. 800-1100) Navajo (A.D. 1880-1980)	Eligible
NM-H-46-88 (LA7300)	Prehistoric/Historic Non-structural	Anasazi (A.D. 500-1300) Navajo (A.D. 1880-1930)	Need data
NM-H-46-89	Prehistoric/Historic Structural	Anasazi (A.D. 700-1300) Navajo (A.D. 1950-1980)	Eligible
NM-H-46-90	Historic Structural	Navajo (A.D. 1950-1980)	Need Data
NM-H-46-91	Historic Structural	Navajo (A.D. 1950-1980)	Need Data
NM-H-46-92	Historic Structural	Navajo (A.D. 1950-Present)	Need Data

NM-H-46-93	Historic Non-structural	Navajo (A.D. 1950-1965) Navajo (A.D. 2000-present)	Not Eligible
NM-H-46-94	Historic Non-structural	Navajo (A.D. 1930-1980)	Not Eligible
NM-H-46-95	Prehistoric Non-structural	Anasazi (A.D. 700-1100)	Need Data
NM-H-46-96	Prehistoric Non-structural	Anasazi (A.D. 700-1300)	Need data*
NM-H-46-97	Prehistoric Non-structural	Anasazi (A.D. 700-1300)	Eligible
NM-H-46-98	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-1100) Navajo (1880-present)	Need data
NM-H-46-99	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Not Eligible

*inconsistent determinations given before – present determination as shown above.

Reach 7 Sites (revised determinations of eligibility in bold)

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-51-77 (LA3219; LA12735)	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-1100) Anglo/Euro-American (A.D. 1945-1980)	Eligible
NM-H-51-56 (LA3219; LA12738)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-51-57 (LA3219; LA12739)	Prehistoric/Historic Structural	Anasazi (Unknown-Unknown) Navajo (Unknown-Unknown)	Not Eligible
NM-H-46-51 (LA3219)	Prehistoric Structural	Anasazi (A.D. 1050-1150) Anasazi (A.D. 1150-1250-1275)	Eligible
NM-H-46-49 (LA3219; LA3220)	Prehistoric Structural	Anasazi (A.D. 750-900)	Eligible
NM-H-51-20 (LA3219; LA81614)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Eligible
NM-H-46-112	Prehistoric/Historic Structural	Anasazi (A.D. 700-1100) Navajo (A.D. 1940-1970)	Eligible
NM-H-46-113	Prehistoric Non-structural	Anasazi (A.D. 700-1200)	Eligible
NM-H-46-114	Prehistoric Structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-51-78	Prehistoric Non-structural	Anasazi (750 A.D.-1250)	Need Data
NM-H-51-79	Prehistoric Non-structural	Anasazi (A.D. 700-900)	Eligible
NM-H-51-80	Historic Non-structural	Anglo/Euro-American (Unknown-before A.D. 1966)	Not Eligible
NM-H-51-81	Prehistoric Structural	Anasazi (A.D. 1000-1150)	Eligible

NM-H-51-82	Prehistoric Non-structural	Unknown (A.D. 800-1750)	Not Eligible
NM-H-51-83	Prehistoric/Historic Non-structural	Archaic (5500 BC-200) Navajo (A.D. 1950-1980)	Eligible
NM-H-51-84	Historic Structural	Anglo/Euro-American (A.D. 1912-1945)	Eligible
NM-H-51-85	Prehistoric Structural	Anasazi (A.D. 700-1100)	Eligible
NM-H-51-86	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-51-87	Prehistoric Structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-51-88	Historic Non-structural	Anglo/Euro-American (A.D. 1940s-1970s)	Not Eligible
NM-H-51-89	Prehistoric/Historic Non-structural	Anasazi (A.D. 900-1100) Anglo/Euro-American (A.D. 1930-1950)	Eligible
NM-H-51-90	Historic Structural	Navajo (A.D. 1970?-1990?) Navajo (ca. A.D. 1990-present)	Not Eligible
NM-H-51-91	Prehistoric/Historic Non-structural	Archaic (1800 BC-200) Navajo (A.D. 1920s-1980s)	Eligible
NM-H-51-92	Prehistoric/Historic Structural	Unknown (A.D. 1945-1980)	Need Data
NM-H-51-93	Prehistoric Non-structural	Anasazi (A.D. 650-800)	Eligible
NM-H-51-94	Prehistoric/Historic Non-structural	Anasazi (A.D. 400-900) Navajo (A.D. 1945-2013)	Eligible

Reach 8 Sites (revised determinations of eligibility in **bold**)

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-62-150 (LA12564)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Not Eligible
NM-H-51-54 (LA145960)	Prehistoric Structural	Anasazi (A.D. 500-900)	Eligible
NM-H-62-107 (LA145990)	Prehistoric Non-structural	Anasazi (A.D. 900 -1300)	Eligible
NM-H-62-11 (LA145991)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-62-9 (LA32923)	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-62-8 (LA32924)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-51-95	Historic Non-structural	Navajo (A.D. 1930-1970)	Not Eligible
NM-H-51-96	Prehistoric Structural	Anasazi (A.D. 900-1200)	Eligible
NM-H-62-151	Prehistoric/Historic Structural	Anasazi (A.D. 900-1200) Navajo (A.D. 1920-1950s)	Eligible
NM-H-62-152	Prehistoric Structural	Anasazi (A.D. 900-1200)	Eligible
NM-H-62-153	Prehistoric Structural	Anasazi (A.D. 975-1175)	Eligible
NM-H-62-154	Prehistoric Structural	Anasazi (A.D. 900-1100)	Eligible

NM-H-62-155	Prehistoric/Historic Non-structural	Anasazi (A.D. 900-1175) Navajo (A.D. 1950's-1980's)	Eligible
NM-H-62-156	Prehistoric/Historic Non-structural	Anasazi (A.D. 900-1100) Navajo (A.D. 1692-1753)	Eligible
NM-H-62-157	Prehistoric Non-structural	Anasazi (A.D. 775-1100)	Eligible
NM-H-62-158	Prehistoric Non-structural	Anasazi (A.D. 900-1175)	Eligible
NM-H-62-159	Prehistoric Non-structural	Anasazi (A.D. 900-1300)	Need Data
NM-H-62-160	Prehistoric Non-structural	Anasazi (A.D. 500-1200)	Eligible
NM-H-62-161	Prehistoric Structural	Anasazi (A.D. 1000-1300)	Eligible
NM-H-62-162	Prehistoric Structural	Anasazi (A.D. 900-1300)	Eligible
NM-H-62-163	Prehistoric Non-structural	Anasazi (A.D. 900-1200)	Need data
NM-H-62-164	Prehistoric Structural	Anasazi (A.D. 900-1300)	Need data
NM-H-62-165	Prehistoric Non-structural	Anasazi (A.D. 750-1175)	Eligible
NM-H-62-166	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Not Eligible
NM-H-62-167	Prehistoric Non-structural	Anasazi (A.D. 700-1100)	Need Data
NM-H-62-168	Prehistoric Non-structural	Anasazi (A.D. 900-1250)	Eligible
NM-H-62-169	Prehistoric Non-structural	Archaic (B.C. 1800-A.D. 200)	Eligible
NM-H-62-170	Prehistoric Non-structural	Anasazi (A.D. 1-1600)	Need data
NM-H-62-171	Prehistoric Non-structural	Anasazi (A.D. 700-1300)	Need data
NM-H-62-172	Prehistoric Non-structural	Anasazi (A.D. 900-1200)	Need data
NM-H-62-173	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Eligible
NM-H-62-174	Prehistoric/Historic Structural	Anasazi (A.D. 900-1300)	Eligible

Reach 9 Sites (revised determinations of eligibility in bold)

Site No.	Site Type	Site Description	NRHP Eligible?
NM-H-14-99 (LA2505)	Prehistoric Structural	Anasazi (A.D. 900-1200)	Yes
NM-H-62-193 (LA32936)	Prehistoric Structural	Anasazi (A.D. 775-950)	Yes
NM-Q-3-114 (LA32939)	Prehistoric Structural	Anasazi (A.D. 500- A.D. 1300)	Yes
NM-Q-3-115 (LA32941)	Historic Structural	Unknown historic (A.D. 1950-1980)	No
NM-Q-3-121 (LA5203)	Prehistoric Structural	Anasazi (A.D. 900-1300)	Need data

NM-Q-3-122 (LA5204)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Need data
NM-Q-14-100 (LA71884)	Prehistoric Non-structural	Anasazi (A.D. 500-1300)	Need data
NM-Q-14-101 (LA71888)	Prehistoric Non-structural	Anasazi (A.D. 800-1000)	Need data
NM-Q-3-123 (LA80404)	Prehistoric Non-structural	Anasazi (A.D. 900-1200)	No
NM-Q-14-102 (LA80406)	Prehistoric Structural	Anasazi (A.D. 500-700) Anasazi (A.D. 900-1300)	Yes
NM-Q-14-103 (LA80407)	Prehistoric Non-structural	Anasazi (A.D. 500-1100)	Yes
NM-Q-14-104 (LA80408)	Prehistoric/Historic Structural	Anasazi (A.D. 1000-1200) Navajo (A.D. 1960-1970)	Yes
NM-Q-14-105 (LA80409) (Connected with TCP R9-07)	Historic Structural	Navajo (A.D. 1950-1980)	Need data
NM-Q-14-106 (LA80410)	Prehistoric/Historic Non-structural	Anasazi (A.D. 700-900) Navajo (A.D. 1930-1950)	Yes
NM-Q-14-107 (LA80412)	Prehistoric Non-structural	Anasazi (A.D. 500-1100)	No
NM-Q-14-108 (LA80413)	Prehistoric/Historic Non-structural	Anasazi (A.D. 500-1100) Navajo (A.D. 1692-1868)	Need data
NM-Q-14-109 (LA80414)	Prehistoric Non-structural	Anasazi (A.D. 700-1000)	No
NM-Q-14-110 (LA80415)	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
NM-Q-14-111 (LA80951)	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
NM-H-62-101 (LA32935)	Prehistoric Structural	Anasazi (A.D. 500-1100)	Yes
NM-H-62-102 (LA145987)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
NM-H-62-192 NM-H-62-104 (LA32931) (TCP R9-03 within site boundary)	Prehistoric/Historic Structural	Anasazi (A.D. 500-900) Navajo (A.D. 1900-1960)	Yes
NM-H-62-190 NM-H-62-105 (LA145988) (Crossed by TCP R9-01)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1200) Navajo (A.D. 1937-1980)	Yes
NM-H-62-191 NM-H-62-106 (LA145989)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Need data

NM-H-62-189 NM-H-62-99 (LA145985)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
NM-Q-3-120 NM-Q-3-66 (LA32949)	Prehistoric/Historic Structural	Anasazi (A.D. 800-1100) Navajo (A.D. 1960-1980)	Yes
NM-Q-3-119 NM-Q-3-68 (LA32948)	Historic Non-structural	Navajo and Anglo/EuroAmerican (A.D. 1930-present)	Eligible
NM-Q-3-7 (LA74503)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
NM-Q-3-112 NM-Q-3-70 (LA145982)	Historic Structural	Navajo (A.D. 1880-1920)	Yes
NM-Q-3-118 NM-Q-3-71 (LA32944)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
NM-Q-3-117 NM-Q-3-72 (LA32943)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1200) Navajo (A.D. 1692-1753)	Yes
NM-Q-3-116 NM-Q-3-73 (LA32942)	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
NM-Q-3-113 NM-Q-3-76 (LA145984)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
NM-H-62-194 (R9-02)	Historic Non-structural	Navajo (A.D. 1945-1960)	No
NM-H-62-195 (R9-04) (Crossed by TCP R9-01)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1300) Navajo (A.D. 1960-1980)	Yes
NM-H-62-196 (R9-05)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
NM-H-62-197 (R9-07) (Also includes IUS R9-08)	Prehistoric/Historic Structural	Anasazi (A.D. 700-1100) Navajo (A.D. 1980-present)	Yes
NM-H-62-198 (R9-09)	Prehistoric Non-structural	Anasazi (A.D. 875-975)	No
NM-H-62-199 (R9-10) (Crossed by TCP R9-01)	Historic Structural	Navajo (A.D. 1950s-1960s)	No
NM-H-62-200 (R9-11)	Prehistoric Structural	Anasazi (A.D. 750-1000)	Yes
NM-H-62-201 (R9-13)	Prehistoric Non-structural	Anasazi (A.D. 550-1175)	Yes
NM-H-62-202 (R9-14)	Prehistoric/Historic Structural	Anasazi (A.D. 500-700) Navajo (A.D. 1880-1960)	Yes
NM-H-62-203 (R9-15)	Prehistoric Structural	Anasazi (A.D. 1050-1230)	Yes

NM-H-62-204 (R9-16)	Prehistoric Non-structural	Anasazi (A.D. 975-1175)	Yes
NM-H-62-205 (R9-17)	Prehistoric Non-structural	Anasazi (A.D. 700-900)	Need data
NM-H-62-206 (R9-19)	Prehistoric Non-structural	Anasazi (A.D. 750-900)	No
NM-H-62-207 (R9-20) (Contains B9-03)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1100) Navajo (A.D. 1912-present)	Yes
NM-H-62-208 (R9-21)	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
NM-H-62-209 (R9-23) (Crossed by TCP R9-01)	Prehistoric Non-structural	Anasazi (A.D. 900-1100)	Yes
NM-Q-3-124 (R9-24)	Prehistoric Structural	Unknown prehistoric	Yes
NM-H-62-210 (R9-25)	Prehistoric Non-structural	Anasazi (A.D. 775-1175)	Yes
NM-Q-3-125 (R9-26)	Prehistoric Structural	Anasazi (A.D. 500-900)	Yes
NM-H-62-211 (R9-27)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Yes
NM-Q-3-126 (R9-29)	Prehistoric Non-structural	Anasazi (A.D. 500-900)	Yes
NM-Q-3-127 (R9-30)	Prehistoric Structural	Anasazi (A.D. 700-1100)	Need data
NM-Q-3-128 (R9-31)	Prehistoric Non-structural	Anasazi (A.D. 500-1100)	Yes
NM-Q-3-129 (R9-32)	Prehistoric Non-structural	Anasazi (A.D. 500-700)	Need data
NM-Q-3-130 (R9-33)	Prehistoric Non-structural	Anasazi (A.D. 875-975)	Need data
NM-Q-3-131 (R9-34)	Prehistoric Non-structural	Anasazi (A.D. 550-900)	Yes
NM-Q-3-132 (R9-35)	Prehistoric/Historic Structural	Anasazi (A.D. 700-900) Navajo (A.D. 1930s-1970)	Yes
NM-Q-3-134 (R9-38)	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
NM-Q-3-135 (R9-40)	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
NM-Q-3-136 (R9-41)	Prehistoric Non-structural	Anasazi (A.D. 1050-1300)	Need data
NM-Q-3-137 (R9-42)	Prehistoric Non-structural	Anasazi (A.D. 900-1200)	Need data
NM-Q-3-138 (R9-44)	Historic Non-structural	Navajo (A.D. 1965-present)	No
NM-Q-3-139 (R9-46)	Prehistoric Non-structural	Anasazi (A.D. 500-700)	Need data
NM-Q-3-140 (R9-47)	Prehistoric Non-structural	Anasazi (A.D. 550-900)	Yes
NM-Q-3-141 (R9-51)	Prehistoric Non-structural	Unknown prehistoric	Yes

NM-Q-3-142 (R9-52)	Prehistoric Structural	Anasazi (A.D. 900-1300)	Yes
NM-Q-3-143 (R9-54)	Prehistoric Non-structural	Anasazi (A.D. 900-1300)	No
NM-Q-3-144 (R9-55)	Prehistoric Non-structural	Anasazi (A.D. 750-900)	Need data
NM-Q-3-145 (R9-57)	Unknown Non-structural	Unknown prehistoric	Yes
NM-Q-3-146 (R9-58)	Prehistoric/Historic Structural	Anasazi (A.D. 900-1300) Navajo (A.D. 1880-1940)	Yes
NM-Q-3-147 (R9-60)	Prehistoric Structural	Anasazi (A.D. 500-1300)	Need data
NM-Q-14-112 (R9-61)	Prehistoric Structural	Anasazi (A.D. 900-1200)	Need data
NM-Q-3-148 (R9-62)	Prehistoric Structural	Anasazi (A.D. 500-700)	Yes
NM-Q-14-113 (R9-65)	Prehistoric Structural	Anasazi (A.D. 500-1300)	Yes
NM-Q-3-149 (R9-66)	Prehistoric/Historic Non-structural	Anasazi (A.D. 500-1300) Navajo (A.D. 1600-present)	Yes
NM-Q-3-150 (R9-67)	Prehistoric Non-structural	Anasazi (A.D. 550-900)	Yes
NM-H-62-212 (R9-69) (Crossed by TCP R9-01)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Yes
NM-Q-14-114 (R9-71)	Prehistoric Structural	Unknown prehistoric (B.C. 8000-A.D. 1540)	Need data
NM-H-62-213 (R9-73)	Prehistoric Structural	Anasazi (A.D. 900-1100)	Yes
NM-H-62-214 (R9-75) (Crossed by TCP R9-01)	Prehistoric Non-structural	Anasazi (A.D. 750-900)	Yes

Reach 10 Sites

Site No.	Site Type	Site Description	NRHP Eligible?
NM-Q-14-115 (LA11610)	Prehistoric Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1100)	Yes
NM-Q-14-116 (LA2033)	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
NM-Q-14-117 (LA2506)	Prehistoric Structural	Anasazi (A.D.500-1100) Navajo (A.D.1950-1970)	Yes
NM-Q-14-118 (LA2507)	Prehistoric/Historic Structural	Anasazi (A.D.600-850) Navajo (A.D.1900-1980's)	Yes
NM-Q-14-119 (LA2508)	Prehistoric Structural	Anasazi (A.D.550-1150)	Yes
NM-Q-14-120 (LA6444)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945- Present)	Yes
NM-Q-14-121 (LA80416)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1995)	Yes

NM-Q-14-122 (LA80422)	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Navajo (A.D.1900- Present)	Yes
NM-Q-14-123 (LA80424)	Prehistoric Structural	Anasazi (A.D.500-900)	Yes
NM-Q-14-124 (LA80425)	Prehistoric Structural	Anasazi (A.D.550-1150) Navajo (A.D.1960's- 1980's)	Yes
NM-Q-14-125 (LA80430)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1950)	Yes
NM-Q-14-126 (LA80432)	Prehistoric Non- structural	Anasazi (A.D.900-1100)	Need data
NM-Q-14-127 (R10-01)	Prehistoric/Historic Structural	Anasazi (A.D.900-1100) Navajo (A.D.1900-1960's)	Yes
NM-Q-14-128 (R10-03)	Prehistoric Non- structural	Anasazi (A.D.900-1200)	Need data
NM-Q-14-129 (R10-05)	Prehistoric Structural	Anasazi (A.D.900-1100)	Yes
NM-Q-14-130 (R10-11)	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1300)	Yes
NM-Q-14-131 (R10-19)	Historic Structural	Navajo (A.D.1950's- 1970's)	Yes
NM-Q-14-132 (R10-21)	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
NM-Q-14-133 (R10-23)	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
NM-Q-14-134 (R10-25)	Prehistoric/Historic Structural	Anasazi (A.D.700-900) Navajo (A.D.1990-present)	Yes
NM-Q-14-135 (R10-27)	Prehistoric/Historic Structural	Anasazi (A.D.550-950) Navajo (A.D.1880-1915)	Yes
NM-Q-14-136 (R10-29)	Prehistoric/Historic Structural	Anasazi (A.D.550-1150) Navajo (Unknown historic- Present)	Yes
NM-Q-14-137 (R10-31)	Prehistoric Non- structural	Anasazi (A.D.550-900)	Yes
NM-Q-14-138 (R10-33)	Prehistoric Non- structural	Anasazi (A.D.900-1100)	Yes
NM-Q-14-139 (R10-35)	Prehistoric Structural	Anasazi (A.D.1000-1200)	Yes
NM-Q-14-140 (R10-37)	Prehistoric Non- structural	Anasazi (A.D.700-1100)	Need data
NM-Q-14-141 (R10-39)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1912-1960)	Yes
NM-Q-14-142 (R10-49)	Prehistoric Non- structural	Anasazi (A.D.500-900)	Need data
NM-Q-14-143 (R10-57)	Prehistoric Structural	Anasazi (A.D.500-1100)	Yes
NM-Q-14-144 (R10-61)	Prehistoric Structural	Anasazi (A.D.700-900)	Yes
NM-Q-14-115 (LA11610)	Prehistoric Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1100)	Yes
NM-Q-14-116 (LA2033)	Prehistoric Non- structural	Anasazi (A.D.900-1100)	Need data
NM-Q-14-117 (LA2506)	Prehistoric Structural	Anasazi (A.D.500-1100) Navajo (A.D.1950-1970)	Yes

NM-Q-14-118 (LA2507)	Prehistoric/Historic Structural	Anasazi (A.D.600-850) Navajo (A.D.1900-1980's)	Yes
NM-Q-14-119 (LA2508)	Prehistoric Structural	Anasazi (A.D.550-1150)	Yes
NM-Q-14-120 (LA6444)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945- Present)	Yes
NM-Q-14-121 (LA80416)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1995)	Yes
NM-Q-14-122 (LA80422)	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Navajo (A.D.1900- Present)	Yes
NM-Q-14-123 (LA80424)	Prehistoric Structural	Anasazi (A.D.500-900)	Yes
NM-Q-14-124 (LA80425)	Prehistoric Structural	Anasazi (A.D.550-1150) Navajo (A.D.1960's-1980's)	Yes
NM-Q-14-125 (LA80430)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1945-1950)	Yes
NM-Q-14-126 (LA80432)	Prehistoric Non- structural	Anasazi (A.D.900-1100)	Need data
NM-Q-14-127 (R10-01)	Prehistoric/Historic Structural	Anasazi (A.D.900-1100) Navajo (A.D.1900-1960's)	Yes
NM-Q-14-128 (R10-03)	Prehistoric Non- structural	Anasazi (A.D.900-1200)	Need data
NM-Q-14-129 (R10-05)	Prehistoric Structural	Anasazi (A.D.900-1100)	Yes
NM-Q-14-130 (R10-11)	Prehistoric/Historic Structural	Anasazi (A.D.500-700) Anasazi (A.D.900-1300)	Yes
NM-Q-14-131 (R10-19)	Historic Structural	Navajo (A.D.1950's-1970's)	Yes
NM-Q-14-132 (R10-21)	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
NM-Q-14-133 (R10-23)	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
NM-Q-14-134 (R10-25)	Prehistoric/Historic Structural	Anasazi (A.D.700-900) Navajo (A.D.1990-present)	Yes
NM-Q-14-135 (R10-27)	Prehistoric/Historic Structural	Anasazi (A.D.550-950) Navajo (A.D.1880-1915)	Yes
NM-Q-14-136 (R10-29)	Prehistoric/Historic Structural	Anasazi (A.D.550-1150) Navajo (Unknown historic- Present)	Yes
NM-Q-14-137 (R10-31)	Prehistoric Non- structural	Anasazi (A.D.550-900)	Yes
NM-Q-14-138 (R10-33)	Prehistoric Non- structural	Anasazi (A.D.900-1100)	Yes
NM-Q-14-139 (R10-35)	Prehistoric Structural	Anasazi (A.D.1000-1200)	Yes
NM-Q-14-140 (R10-37)	Prehistoric Non- structural	Anasazi (A.D.700-1100)	Need data
NM-Q-14-141 (R10-39)	Prehistoric/Historic Structural	Anasazi (A.D.500-1100) Navajo (A.D.1912-1960)	Yes
NM-Q-14-142 (R10-49)	Prehistoric Non- structural	Anasazi (A.D.500-900)	Need data

NM-Q-14-143 (R10-57)	Prehistoric Structural	Anasazi (A.D.500-1100)	Yes
NM-Q-14-144 (R10-61)	Prehistoric Structural	Anasazi (A.D.700-900)	Yes

Reach 11 Sites

Site No.	Site Type	Site Description	NRHP Eligible?
NM-Q-19-129 (LA6448)	Prehistoric Non-structural	Anasazi (A.D. 1-500)	Yes
NM-Q-19-130 (LA80433)	Prehistoric Structural	Anasazi (A.D.900-1100)	Yes
NM-Q-18-362 (LA80434)	Prehistoric Structural	Anasazi (A.D.500-700) Anasazi (A.D.1000-1200)	Yes
NM-Q-18-363 (R11-01)	Historic/Modern Non-structural	Navajo (A.D.1970-1980)	No
NM-Q-14-145 (R11-02)	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
NM-Q-18-364 (R11-03)	Historic/Modern Structural	Navajo (A.D.1970's-2000's)	No
NM-Q-14-146 (R11-04)	Prehistoric Non-structural Historic/Modern Non-structural	Anasazi (A.D.900-1100) Navajo (A.D.1950-1970)	Need data
NM-Q-19-131 (R11-06)	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
NM-Q-18-365 (R11-07)	Historic Structural	Navajo (A.D.1950-1980)	No
NM-Q-19-132 (R11-12)	Prehistoric Non-structural	Anasazi (A.D.900-1100)	Need data
NM-Q-18-366 (R11-17)	Prehistoric Structural Historic/Modern Structural	Anasazi (A.D.1-1300) Navajo (A.D.1950-1970)	Need data
NM-Q-18-367 (R11-21)	Historic Structural	Navajo (A.D.1912-1965)	Yes
NM-Q-18-368 (R11-23)	Prehistoric Structural	Anasazi (A.D.550-900)	Yes
NM-Q-18-369 (R11-24) (contains Jishchaa' B11-02)	Prehistoric Structural Historic/Modern Structural	Anasazi (A.D.900-1200) Navajo (A.D.1930-1980)	Yes
NM-Q-18-370 (R11-25)	Prehistoric Structural	Anasazi (A.D.500-900)	Yes
NM-Q-18-371 (R11-26)	Prehistoric Structural Historic/Modern Structural	Anasazi (A.D.500-700) Navajo (A.D.1940-present)	Yes
NM-Q-18-372 (R11-28)	Historic/Modern Structural	Navajo (A.D.1960-present)	No

Following finalization of minor revisions to the Reach 3 through 11 alignments and selection of locations for the Hogback Diversion and associated water treatment plant(s), including identification and

consultation on the eligibilities of any properties discovered during Class III inventories for additions and realignments, Reclamation will consult again with the Navajo Nation THPO and the NGWSP PA Workgroup on determinations of effect to individual properties and on appropriate mitigations. This future consultation is expected to center around, but not necessarily be limited to, a forthcoming draft sampling strategy and treatment plan for the NGWSP San Juan Lateral.

While the final pipeline alignment is necessary to identify historic properties directly affected by construction activities along Reaches 3 through 11, it may be possible to identify significant indirect impacts and mitigation actions now, or to formulate general recommended treatments that would be appropriate for common site types. Reclamation, therefore, invites PA Workgroup members to share any preliminary recommendations or guidance regarding the resolution of adverse effects to cultural resources along the San Juan Lateral prior to our formal request for consultation on effect and mitigation. To facilitate preliminary analysis, a draft list of sites directly affected by construction along Reaches 9 through 11, subject to change with proposed realignments, is attached for reference and review. If you have general questions or comments, or wish to engage in further consultation regarding this undertaking, please contact Geoffrey Haymes at 970-385-6571 or ghaymes@usbr.gov, Jimmie McKenzie at 970-385-6565 or jmckenzie@usbr.gov, or Lead Archaeologist Ernest Rheume at 970-385-6521 or erheume@usbr.gov.

Sincerely,

ED WARNER

Ed Warner
Area Manager

Enclosure

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bc: WCG-EWarner, WCG-KOzga, WCD-ERheume, WCD-KBowen,
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Geoffrey Haymes
03 October 2016
Bureau of Reclamation

The following table provides a list of sites recorded by PaleoWest during Class III inventories for the NGWSP Reaches 9 through 11 that will be subject to direct impacts during construction, assuming use of the current proposed alignment and right-of-way (ROW). In addition, it demonstrates which features or feature-like components within affected sites, if any, would be directly impacted by construction.

The construction ROW has already undergone substantial changes from its original shape to minimize the number of sites potentially eligible for National Register of Historic Places (NRHP) listing that will be directly impacted and to minimize the impacts to important features within the affected sites. Potential effects to cultural resources were considered in tandem with engineering issues and restrictions to produce the current proposed construction ROW. The list below, then, is thought to represent the minimum number of sites and features that could practically be subjected to direct impacts without major reroutes of the Navajo-Gallup Water Supply Project (NGWSP) alignment and ROW, requiring new Class III inventory and possibly other identification efforts. Given the site density of the general area, such realignments are generally thought to exchange impacts to known sites for impacts to new sites not yet recorded, rather than provide the practical means to avoid important cultural resources altogether. However, short reroutes are being planned for the avoidance of certain exceptional properties. As a consequence, the list provided below is subject to change.

Please refer to the site plan maps and site descriptions included in PaleoWest's Technical Report No. 15-15, *The Navajo-Gallup Water Supply Project: Class III Inventory and Ethnographic Summary for the San Juan Lateral, Volume III: Reaches 9-11, Navajo Nation and McKinley County, New Mexico DRAFT*, provided to the PA Workgroup on April 25th, 2016. The site and feature identification nomenclature utilized in the table below is taken from this report and its associated data.

For "NRHP"

ND = not determined; potentially and effectively eligible for NRHP listing

E = eligible for NRHP listing (official determination)

NE = not eligible for NRHP listing (official determination)

For "Features impacted":

NA = not applicable; no features present on site

0 = no features impacted – but, direct impacts to site's surface artifact distribution

? = feature occurs on the edge of the ROW and may be impacted – further fieldwork would be necessary to firmly establish whether the feature sits inside or outside the proposed ROW.

Table 1: Sites Partially or Wholly within the Proposed Reach 9-11 ROW.

REACH	LA_Num	Site_Num_F	NRHP	Features impacted
R9	LA32948	NM-Q-3-68	E	F1 (the site is an isolated feature)
R9	LA32935	NM-H-62-101	E	F2
R9	LA32936	LA32936	E	F1, F2, F3?, F4
R9	LA32939	LA32939	E	0
R9	LA74503	NM-Q-3-7	E	0
R9	LA80415	LA80415	E	F1?, F2, F3, F4, F5

R9	LA145984	NM-Q-3-76	E	F1, F5, F9
R9	LA145987	NM-H-62-102	E	F1, F2, F3
R9		R9-02	NE	NA
R9		R9-04	E	0
R9		R9-10	NE	NA
R9		R9-11	E	0
R9		R9-13	E	F1
R9		R9-14	E	0
R9		R9-15	E	F1
R9		R9-16	E	0
R9		R9-21	E	0
R9		R9-23	E	0
R9		R9-25	E	0
R9		R9-26	E	F1, F2
R9		R9-27	E	F3, F4
R9		R9-30	ND	0
R9		R9-31	E	NA
R9		R9-34	E	NA
R9		R9-35	E	F3, F4
R9		R9-40	E	0
R9		R9-44	NE	NA
R9		R9-55	ND	NA
R9		R9-57	E	F1
R9		R9-69	E	F6
R9		R9-71	ND	0
R9	LA5203	LA5203	ND	Excavated Room Block
R9	LA5204	LA5204	ND	F1
R9	LA32931	NM-H-62-104	E	F12, F13
R9	LA32942	NM-Q-3-73	E	0
R9	LA32943	NM-Q-3-72	E	F1, F2
R9	LA32944	NM-Q-3-71	E	0
R9	LA32949	NM-Q-3-66	E	F3?
R9	LA71884	LA71884	ND	NA
R9	LA71888	LA71888	ND	NA
R9	LA80406	LA80406	E	F1, F5?
R9	LA80407	LA80407	E	NA; artifact concentration avoided
R9	LA80408	LA80408	E	F2?, F3
R9	LA80409	LA80409	ND	F2, F3, F4, F5, F6, F7, F8
R9	LA80410	LA80410	E	0; oxidized rock scatter
R9	LA80412	LA80412	NE	NA
R9	LA80413	LA80413	ND	NA; Navajo Gray sherd concentration impacted?
R9	LA145982	NM-Q-3-70	E	0
R9	LA145988	NM-H-62-105	E	F2 Section B

R9	LA145989	NM-H-62-106	ND	0
R9		R9-07	E	F4?
R10		R10-01	E	F3
R10		R10-03	ND	NA
R10		R10-19	E	F3
R10		R10-27	E	0
R10		R10-31	E	NA; most of site will be impacted
R10		R10-35	E	0
R10		R10-39	E	0
R10		R10-49	ND	NA
R10		R10-57	E	F1, F6
R10	LA11610	LA11610	E	0; artifact concentration near F31/32 impacted
R10		R10-11	E	NA; Locus 1, Locus 3 impacted
R11		R11-23	E	0
R11		R11-01	NE	NA
R11		R11-03	NE	0
R11		R11-06	ND	NA; most of site will be impacted
R11		R11-07	NE	F4?, F5?
R11		R11-17	ND	F5?
R11		R11-24	E	F1, F6, F10, F11
R11		R11-26	E	F4 & associated artifact concentration
R11		R11-28	NE	F1, F2, F3, ETC?
R9		R9-37	E	See R9-35 & Reach 9 Navajo Ethnographic Report
R10	LA2506	LA2506	E	F10
R10	LA2507	LA2507	E	F27
R10	LA2508	LA2508	E	0
R10	LA80424	LA80424	E	0; Artifact Concentration 2
R10	LA80425	LA80425	E	F9
R10	LA80430	LA80430	E	F5

The following table provides similar information for Isolated Occurrences (IOs) directly impacted by the current proposed construction ROW. IOs are considered categorically not eligible for NRHP listing, though identification of previously unobserved significance through consultation with the Navajo Nation Tribal Historic Preservation Officer (THPO) and the Programmatic Agreement (PA) Workgroup may justify the re-categorization of an IO as a potentially-eligible site or Traditional Cultural Property (TCP). In general, the area surrounding an IO located during Class III inventory is searched for a minimum of 20 meters (60 feet) to ensure the item is not part of a larger site, though obvious temporal disassociation may justify the recording of a certain artifact or feature separately as an isolate (e.g., a historic bottle found less than 20 meters from a prehistoric lithic scatter). Items in the table below are arranged in order from southernmost to northernmost.

FCR = fire-cracked rock

Table 2: Isolated Occurrences Partially or Wholly within the Proposed Reach 9-11 ROW.

Report IO Number	Description
11-05	Five gray ware sherds, one flake, in blowout. Area of scatter is 10 x 3 m.
11-15	modern dump 1-10 years old. sanitary cans, aluminum cans, tool box lid, camp stove propane tank, motorcycle parts.
11-13	modern single episode burn barrel dump with 40 oz beer bottles and other glass jars, bicycle parts, aluminum cans.
11-04	large enamel cooking pot
10-04	One thick Black-on-white sherd with slipped exterior.
10-09	Dump of historic material dating to the 1970's or 1980's in a shallow wash. Appears to be a single dumping episode.
10-02	One gray ware sherd and one corrugated sherd.
10-08	Five gray ware sherds.
9-31	One white ware sherd
9-33	Three gray ware sherds and one FCR
9-62	8 gray ware sherds
9-57	4 gray ware sherds in 10 m area
9-54	Helium line crossing arroyo?
9-53	Helium vault [#12]
9-64	Small, collapsed cairn
9-41	Two petrified wood tertiary flakes
9-21	Large concentration of charcoal with nails
9-20	Quartzite battered core
9-37	Three gray ware sherds and one flake. Associated with a rubble pile out side APE to east.
9-16	One gray ware sherd, one FCR
9-15	Two plain gray ware sherds
9-11	Corrugated gray ware sherd.
9-12	Black on white sherd
9-04	Pot drop: four sherds one flake
9-38	Three flakes, two sherds.
9-71	Exposed section of oil/helium pipeline consisting of sections of 4" diameter cast iron pipe.
9-08	Three sherds and three lithics.
9-44	3 pieces of SCA glass and 1 B/W sherd in 10m area
9-70	Two Dinetah gray sherds, one gray ware sherd, one petrified wood scraper in 10 x 10 m area. New home site to north.
9-43	3 gray ware sherds



United States Department of the Interior

Bureau of Indian Affairs
Navajo Region
P. O. Box 1060
Gallup, New Mexico 87305



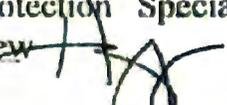
MC 620: Branch of Environmental Quality Act Compliance and Review

OCT 29 2015

MEMORANDUM

To: Supervisory Civil Engineer, Engineering & Technical Support Division

Through: Deputy Director, Trust Services 

From: Supervisory Environmental Protection Specialist, Branch of Environmental Quality Act Compliance & Review 

Subject: National Environmental Policy Act and National Historic Preservation Act Compliance Documents - Navajo Gallup Water Supply Project

This memo provides guidance to the Division, as the Regional lead for the Navajo-Gallup Water Supply Project, concerning the various compliance documents for the National Environmental Policy Act (NEPA) and the National Historic Preservation Act (NHPA).

For NEPA, the following documents would be considered acceptable:

- Sufficiency Analysis (see attachment);
- "Finding of No New Significant Impact" per 43 CFR § 46.140 (c); or
- "Finding of No Significant Impact" per 40 CFR §1508.13.

As for compliance with the NHPA, the NGWSP does have an executed Programmatic Agreement (PA) concerning historic properties between federal, tribal, and state entities regarding effects on historic and cultural properties. The PA allows for the construction activities to proceed efficiently. In addition, there may be Reach-by-Reach compliance documents considered acceptable provided that the compliance document is signed by the Navajo Tribal Historic Preservation Officer:

- Cultural Resources Compliance Form (CRCF);
- A Bureau of Reclamation letter; or
- A letter from NNHPD.

Should you have questions regarding the NHPA, please contact Mr. Terry McClung, Regional Archaeologist at ext. 8349, or Ms. Harrilene Yazzie, Supervisory Environmental Protection Specialist, at ext. 8287, regarding questions related to the NEPA.



United States Department of the Interior

BUREAU OF RECLAMATION

Western Colorado Area Office
 Durango Field Division
 185 Suttle Street, Suite 2
 Durango, Colorado 81303-7911

IN REPLY REFER TO

LETTER OF AGREEMENT

Between

THE U.S. DEPARTMENT OF THE INTERIOR

BUREAU OF RECLAMATION

And

BUREAU OF INDIAN AFFAIRS

The U.S. Department of the Interior, Bureau of Reclamation and Bureau of Indian Affairs (BIA) are entering into this Agreement to provide an established process for National Environmental Policy Act (NEPA) compliance in support of the Navajo Gallup Water Supply Project (NGWSP). The NGWSP is a municipal and industrial water pipeline with associated infrastructure being built to provide water to the Navajo Nation, Jicarilla Apache Nation and the City of Gallup, NM.

The NGWSP is described and analyzed in the NGWSP Project Planning Report and Final Environmental Impact Statement (PR/FEIS) dated July 2009, and the subsequent Record of Decision dated October 1, 2009.

Reclamation and BIA officials in the project area offices have determined that National Environmental Policy Act (NEPA) compliance for updated project planning will be determined for independent sections of the pipeline as more refined information of the pipeline route and associated environmental studies are available. This information will be organized into the NGWSP NEPA Sufficiency Review Process (NEPA SRP) Environmental Analysis Form as found in Attachment A to this document. Development of this Form was the result of a collaborative effort between BIA and Reclamation as described in Attachment B (Development of a NEPA Sufficiency Review Process for Long-Term Implementation of the NGWSP).

The outcome of the NEPA SRP, collaboratively completed and signed by both agencies, will determine whether the existing PR/FEIS sufficiently addresses environmental impacts for a particular section of pipeline; or, if it doesn't, that further NEPA action is warranted (e.g., a tiered Environmental Assessment). The results of the NEPA SRP will be signed by appropriate representatives of both agencies with responsibility for determining the need for, and type of, further NEPA action.

If a additional NEPA action is required, Reclamation and BIA will provide joint oversight of the process, with Reclamation designated as the Lead Agency, and BIA designated as a Cooperating Agency according to Department of Interior NEPA guidelines at 43 CFR Part 46.

This Letter of Agreement becomes effective upon signature by authorized officials of Reclamation and BIA.


 Ed Warner
 Manager
 Western Colorado Area Office
 Bureau of Reclamation

5-23-13
 (Date)


 Sharon A. Pinto
 Director
 Navajo Regional Office
 Bureau of Indian Affairs

6/10/13
 (Date)

ROW CALCULATIONS FOR NGWSP BLOCK 9-11

REACH 9 PERM

Station From	Station To	ROW Width	Length (FT)	Area (SQFT)	Area (AC)
90702+40.36	91185+00.00	80	48259.64	3860771.2	88.63
91185+00.00	91187+50.00	150	250.00	37500	0.86
91187+50.00	91220+00.00	80	3250.00	260000	5.97

Total Acres: **95.46**

Reach 9 TEMP

Station From	Station To	ROW Width	Length (FT)	Area (SQFT)	Area (AC)
90702+40.36	90730+50.00	150	2809.64	421446	9.68
90730+50.00	90731+75.00	135	125.00	16875	0.39
90731+75.00	90827+80.00	150	9605.00	1440750	33.08
90827+80.00	90833+10.00	115	530.00	60950	1.40
90833+10.00	90906+00.00	150	7290.00	1093500	25.10
90906+00.00	90908+00.00	115	200.00	23000	0.53
90908+00.00	90997+20.00	150	8920.00	1338000	30.72
90997+20.00	90998+50.00	120	130.00	15600	0.36
90998+50.00	91028+40.00	150	2990.00	448500	10.30
91028+40.00	91033+00.00	130	460.00	59800	1.37
91033+00.00	91041+00.00	150	800.00	120000	2.75
91041+00.00	91042+50.00	130	150.00	19500	0.45
91042+50.00	91119+50.00	150	7700.00	1155000	26.52
91119+50.00	91127+00.00	100	750.00	75000	1.72
91127+00.00	91129+00.00	80	200.00	16000	0.37
91129+00.00	91220+00.00	150	9100.00	1365000	31.34

Total Acres (Less Permanent AC): **80.59**

REACH 10 PERM

Station From	Station To	ROW Width	Length (FT)	Area (SQFT)	Area (AC)
10003+58.44	10035+00.00	80	3141.56	251324.8	5.77
10035+00.00	10043+20.00	80	820.00	65600	1.51
10043+20.00	10050+57.08	80	737.08	58966.4	1.35
10050+57.08	10059+02.44	80	845.36	67628.8	1.55

Total Acres: **10.18**

Reach 10 TEMP

Station From	Station To	ROW Width	Length (FT)	Area (SQFT)	Area (AC)
10003+58.44	10035+00.00	150	3141.56	471234	10.82
10035+00.00	10043+20.00	120	820.00	98400	2.26
10043+20.00	10050+57.08	95	737.08	70022.6	1.61
10050+57.08	10059+02.44	95	845.36	80309.2	1.84

Total Acres (Less Permanent AC): **6.35**

REACH 11 PERM

Station From	Station To	ROW Width	Length (FT)	Area (SQFT)	Area (AC)
11053+60.00	11166+00.00	80	11240.00	899200	20.64
11166+00.00	11168+50.00	150	250.00	37500	0.86
11168+50.00	11279+80.00	80	11130.00	890400	20.44

Total Acres: **41.94**

Reach 11 TEMP

Station From	Station To	ROW Width	Length (FT)	Area (SQFT)	Area (AC)
11053+60.00	11060+00.00	150	640.00	96000	2.20
11060+00.00	11063+65.00	135	365.00	49275	1.13
11063+65.00	11072+50.00	150	885.00	132750	3.05
11072+50.00	11074+60.00	115	210.00	24150	0.55
11074+60.00	11080+00.00	150	540.00	81000	1.86
11080+00.00	11081+50.00	115	150.00	17250	0.40
11081+50.00	11089+00.00	150	750.00	112500	2.58
11089+00.00	11091+00.00	115	200.00	23000	0.53
11091+00.00	11174+50.00	150	8350.00	1252500	28.75
11174+50.00	11177+00.00	115	250.00	28750	0.66
11177+00.00	11193+50.00	150	1650.00	247500	5.68
11193+50.00	11195+50.00	115	200.00	23000	0.53
11195+50.00	11208+95.00	150	1345.00	201750	4.63
11208+95.00	11224+85.00	80	1590.00	127200	2.92
11224+85.00	11252+10.00	150	2725.00	408750	9.38
11252+10.00	11253+50.00	140	140.00	19600	0.45
11253+50.00	11269+00.00	150	1550.00	232500	5.34
11269+00.00	11279+80.00	130	1080.00	140400	3.22

Total Acres (Less Permanent AC): **31.93**

Navajo Gallup Water Supply Project - Tribal Trust Land - Reach 9B
 Summary - Right-of-Way & Temporary Construction Easement - Navajo Minerals

Reach Number	Description	County	Township	Range	Section	Quarter Section	From Station	To Station	Length (ft)	Right-of-Way (F)		Length (ft)	Temp. Const. Easement (F)	
										Width (ft)	Acreege		Width (ft)	Acreege
9B	Pipeline	McKinley	19N	17W	16	NE1/4, W1/2	9070240.36	9075681.63	5441.27	80	9.99			
					16	NE1/4, W1/2	9070240.36	9073050.00				2809.64	70	4.52
					16	NE1/4, W1/2	9073050.00	9073175.00				125.00	55	0.16
					16	NE1/4, W1/2	9073175.00	9075681.63				2506.63	70	4.03
			19N	17W	20	SE1/4	9079826.76	9081391.41	1564.65	80	2.87	1564.65	70	2.51
			19N	17W	21	W1/2	9075681.63	9079826.76	4145.13	80	7.61	4145.13	70	6.66
			19N	17W	29	E1/2, SW1/4	9081391.41	9087240.73	5849.32	80	10.74			
					29		9081391.41	9082780.00				1388.59	70	2.23
					29		9082780.00	9083310.00				530.00	35	0.43
					29		9083310.00	9087240.73				3930.73	70	6.32
			19N	17W	31	SE1/4	9092525.01	9093108.20	583.19	80	1.07	583.19	70	0.94
			19N	17W	32	W1/2	9087240.73	9092525.01	5284.28	80	9.70			
					32		9087240.73	9090600.00				3359.27	70	5.40
					32		9090600.00	9090800.00				200.00	35	0.16
					32		9090800.00	9092525.01				1725.01	70	2.77
			18N	17W	6	E1/2, SW1/4	9093108.20	9099279.89	6171.69	80	11.33	6171.69	70	9.92
			18N	17W	7	W1/2	9099279.89	9103830.83	4350.94	80	8.36			
					7		9099279.89	9099720.00				440.11	70	0.71
					7		9099720.00	9099850.00				130.00	40	0.12
					7		9099850.00	9102840.00				2990.00	70	4.80
					7		9102840.00	9103000.00				460.00	50	0.53
					7		9103000.00	9103830.83				530.83	70	0.85

Nevajo Gallup Water Supply Project - Tribal Trust Land - Reach 10
 Summary - Right-of-Way & Temporary Construction Easement - Minejo Minerals

Reach Member	Description	County	Township	Range	Section	Quarter Section	From Station	To Station	Length (ft)	Right-of-Way (R)		Length (ft)	Temp. Const. Easement (T)	
										Width (ft)	Average		Width (ft)	Average
10	Right-of-Way	Mitchell	18N	18W	26	SW1/4	1000358.44	1002015.43	1656.99	80	3.04	1656.99	70	2.66
			18N	18W	27	SE1/4	1002015.43	1002882.11	866.68	80	1.59	866.68	70	1.39
			18N	18W	34	NE1/4	1002882.11	1005902.44	3020.33	80	5.55		55	0.00
					34		1002882.11	1003500.00	617.89			617.89	70	0.99
					34		1003500.00	1004320.00	820.00			820.00	40	0.75
					34		1004320.00	1005902.44	1562.44			1562.44	15	0.54
TOTALS:									5,544.00	(P)	10.18	5,544.00	(T)	6.35

Neerigo Gallup Water Supply Project - Tribal Trust Land - Reach 11

Summary - Right-of-Way & Temporary Construction Easement - Neerigo Watersheds

Reach Number	Description	County	Township	Range	Section	Quarter Section	From Section	To Section	Length (ft)	Right-of-Way (ft)		Length (ft)	Temp. Const. Easement (ft)	
										Width (ft)	Average		Width (ft)	Average
11	Right-of-Way	McKenley	18N	18W	34	NE1/4, SW1/4	1105360.00	1109400.10	4047.10	80	7.42			
					34		1105360.00	1106000.00				640.00	70	1.03
					34		1106000.00	1106365.00				365.00	55	0.46
					34		1106365.00	1107250.00				885.00	70	1.42
					34		1107250.00	1107460.00				210.00	35	0.17
					34		1107460.00	1108000.00				540.00	70	0.87
					34		1108000.00	1108150.00				150.00	35	0.12
					34		1108150.00	1108900.00				750.00	70	1.21
					34		1108900.00	1109100.00				200.00	35	0.16
					34		1109100.00	1109400.10				300.10	70	0.48
			17N	18W	3	NW1/4	1109400.10	1111805.98	2405.88	80	4.42	2405.88	70	3.87
			17N	18W	4	E1/2	1111805.98	1115647.36	3841.38	80	7.05	3841.38	70	6.17
			17N	18W	9	NE1/4, NW1/2	1115647.36	1116600.00	952.64	80	1.75			
							1116600.00	1116850.00	250.00	150	0.86			
							1116850.00	1121701.66	4851.66	80	8.91			
							1121701.66	1116600.00				952.64	70	1.53
							1116600.00	1116850.00				250.00	0	0.00
							1116850.00	1117450.00				600.00	70	0.96
							1117450.00	1117700.00				250.00	35	0.20
							1117700.00	1119350.00				1650.00	70	2.65
							1119350.00	1119550.00				200.00	35	0.16
							1119550.00	1120895.00				1345.00	70	2.16
							1120895.00	1121701.66				806.66	0	0.00
			17N	18W	16	NW1/4	1121701.66	1124766.97	3065.31	80	5.63			
							1124766.97	1122485.00				0.00		0.00
							1122485.00	1124766.97				783.34	0	0.00
							1124766.97	1124766.97				2281.97	70	3.67
			17N	18W	17	E1/2	1124766.97	1127980.00	3213.03	80	5.90			
							1127980.00	1125210.00				443.03	70	0.71
							1125210.00	1125350.00				140.00	60	0.19
							1125350.00	1126900.00				1550.00	70	2.49
							1126900.00	1127980.00				1080.00	50	1.24
						TOTALS:			22620.00	(ft)	41.94	22620.00	(ft)	31.93

Reach 9B	19N	17W	16	NWNE					791 - T 8179	Tribal Trust	McKinley
	19N	17W	16	WEST HALF	5441.27				791 - T 8179	Tribal Trust	McKinley
	19N	17W	20	SE	1564.65				791 - T 8179	Tribal Trust	McKinley
	19N	17W	21	WEST HALF	4145.13				791 - T 8179	Tribal Trust	McKinley
	19N	17W	29	EAST HALF					791 - T 8179	Tribal Trust	McKinley
	19N	17W	29	SESW	5849.32				791 - T 8179	Tribal Trust	McKinley
	19N	17W	31	SE	583.19				791 - T 8179	Tribal Trust	McKinley
	19N	17W	32	WEST HALF	5284.28				791 - T 8179	Tribal Trust	McKinley
	18N	17W	6	EAST HALF					791 - T 8182	Tribal Trust	McKinley
	18N	17W	6	SESW	6171.69				791 - T 8182	Tribal Trust	McKinley
	18N	17W	7	WEST HALF	4550.94				791 - T 8182	Tribal Trust	McKinley
	18N	18W	12	SE	1706.49				791 - T 8183	Tribal Trust	McKinley
	18N	18W	13	NE					792 - T 8183	Tribal Trust	McKinley
	18N	18W	13	WEST HALF	6478.61				791 - T 8183	Tribal Trust	McKinley
	18N	18W	23	EAST HALF	4540.51				791 - T 8183	Tribal Trust	McKinley
	18N	18W	24	NW	1765.69				791 - T 8183	Tribal Trust	McKinley
	18N	18W	26	NWNE					791 - T 8183	Tribal Trust	McKinley
	18N	18W	26	WEST HALF	3677.87				791 - T 8183	Tribal Trust	McKinley
					51759.64	95.46	80.59				

REACH 10	18N	18W	26	SW	1656.98				791 - T 8183	Tribal Trust	McKinley
	18N	18W	27	SE	866.69				791 - T 8183	Tribal Trust	McKinley
	18N	18W	34	NE	3020.33				791 - T 8183	Tribal Trust	McKinley
					5544	10.18	6.35				

REACH 11	18N	18W	34	WEST HALF OF EAST HALF					791 - T 8183	Tribal Trust	McKinley
	18N	18W	34	SW	4040.1				791 - T 8183	Tribal Trust	McKinley
	17N	18W	3	NW	2405.88				791 - T 10041	Tribal Trust	McKinley
	17N	18W	4	EAST HALF	3841.38				791 - T 10041	Tribal Trust	McKinley
	17N	18W	9	NE					791 - T 10041	Tribal Trust	McKinley
	17N	18W	9	WEST HALF	6054.3				791 - T 10041	Tribal Trust	McKinley
	17N	18W	16	NW	3065.31				792 - T 10041	Tribal Trust	McKinley
	17N	18W	17	EAST HALF	3213.03				791 - T 10041	Tribal Trust	McKinley
					22620	41.94	31.93				

	Reach 9B -11 Length (ft)	Acreage (P)	Acreage (T)
	79,923.64	147.58	118.87