

NAVAJO NATION WATER DEVELOPMENT AND CUTTER LATERAL OF THE NAVAJO-GALLUP WATER SUPPLY PROJECT

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NAVAJO NATION WATER RESOURCE DEVELOPMENT STRATEGY

- ▶ Large and Regional Water Supply Projects
- ▶ Local Domestic and Agricultural Water Projects
- ▶ Municipal Water Plans, Needs Assessment & Prioritization
- ▶ Completion of NIIP
- ▶ Municipal Storage
- ▶ Drought /Climate Change Response and Mitigation
- ▶ Flood Plain Management
- ▶ Watershed Restoration
- ▶ Technical Advisory Committees



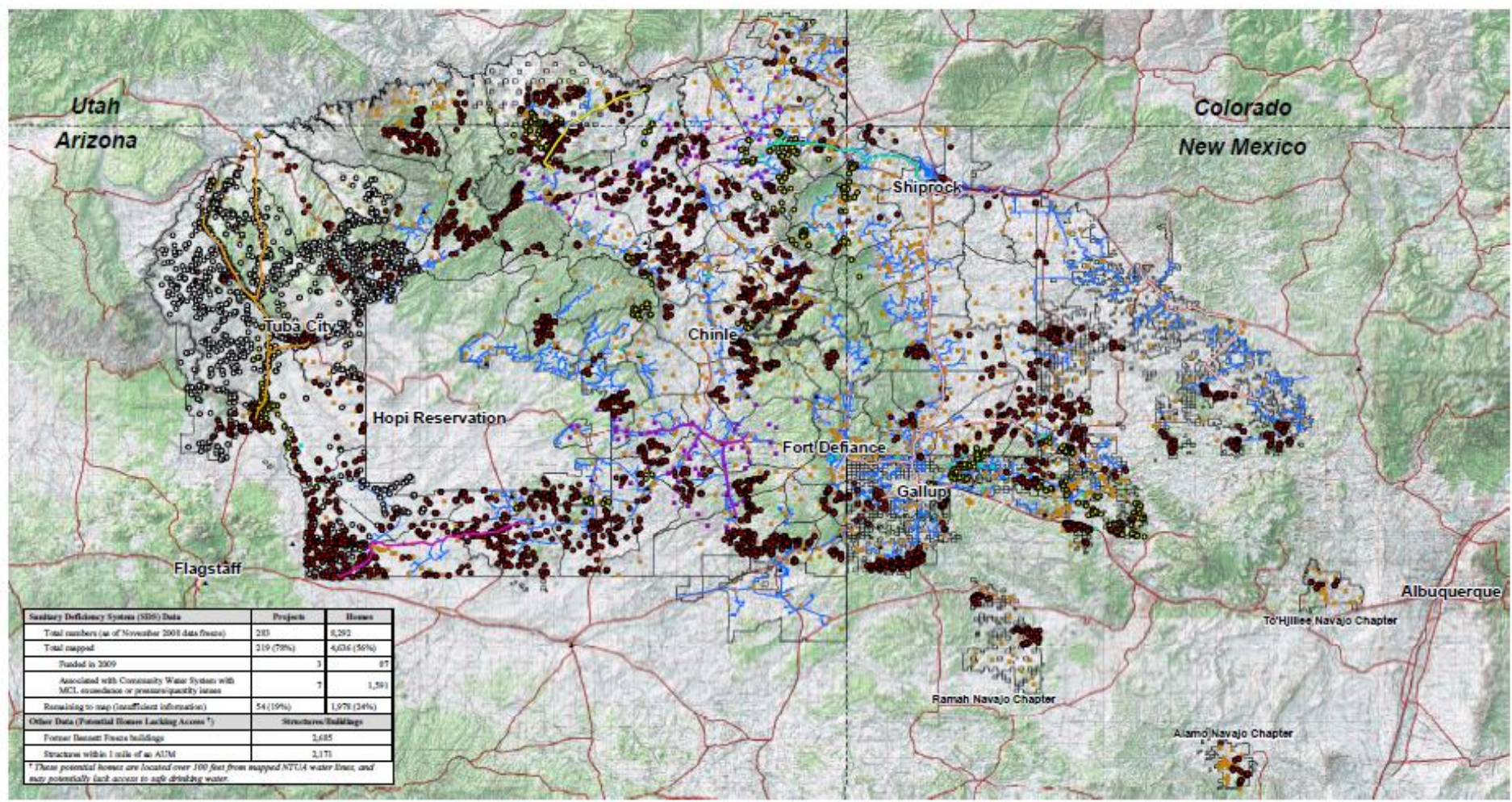
ESTIMATED COST OF WATER DEVELOPMENT

(ANNUAL COST OVER 10 YEARS PERIOD EXCEPT FOR NIIP)

Priority Rank	Brief Description	Estimated Annual Cost of Priority	Total
1	Large Regional Water Supply Project \$840,000,000	\$ 84,000,000	\$ 840,000,000
2	Developing and Rehabilitating Local Water Infrastructure \$1,213,000,000 (Includes NAIHS domestic water)	\$ 121,300,000	\$ 1,213,000,000
	Livestock and Agriculture \$30,000,000	\$ 3,000,000	\$ 30,000,000
3	Service to Water Haulers \$8,000,000	\$ 800,000	\$ 8,000,000
4	Complete Navajo Indian Irrigation Project (NIIP) \$760,000,000	\$ 38,000,000	\$ 760,000,000
5	Address Water Storage Facilities \$47,500,000	\$ 4,750,000	\$ 47,500,000
6	Drought Response and Mitigation \$10,000,000	\$ 1,000,000	\$ 10,000,000
7	Floodplain delineations and management \$43,000,000	\$ 4,300,000	\$ 43,000,000
8	Watershed Restoration Demonstration Projects \$3,000,000	\$ 300,000	\$ 3,000,000
		Annual Total:	\$ 257,450,000 \$ 2,954,500,000

Navajo Nation Domestic Water Development Needs: \$700 million (2014 Estimated Cost)

Source: Navajo Area Indian Health Service



Sanitary Deficiency System (SDS) Data	Projects	Homes
Total numbers (as of November 2001 data freeze)	283	4,292
Total mapped	219 (78%)	4,034 (56%)
Funded in 2009	3	87
Associated with Community Water System with MCL exceedance or pressure/quantity issues	7	1,591
Remaining to map (insufficient information)	54 (19%)	1,978 (24%)
Other Data (Potential Homes Lacking Access *)	Structures/Buildings	
Former Bennett Freeze buildings	2,685	
Structures within 1 mile of an AUM	2,371	

* These potential homes are located over 100 feet from mapped NTCA water lines, and may potentially lack access to safe drinking water.

Legend

- State Line
- Navajo Chapter
- Major Roadway
- Home Without Access to Safe Drinking Water and/or Basic Sanitation *
- Former Bennett Freeze Home Potentially not Connected to a Public Water System (PWS) **
- Structure within 1 Mile of Abandoned Uranium Mines (potential homes without connection to a PWS) **
- EPA Sampled Well
- CDC Sampled Well
- Regulated Safe Drinking Water Hauling Point
- Unregulated Livestock Watering Point
- Navajo Tribal Utility Authority Existing Pressurized Water Main
- Proposed Western Navajo Pipeline Project
- Proposed Navajo-Gallup Water Supply Project

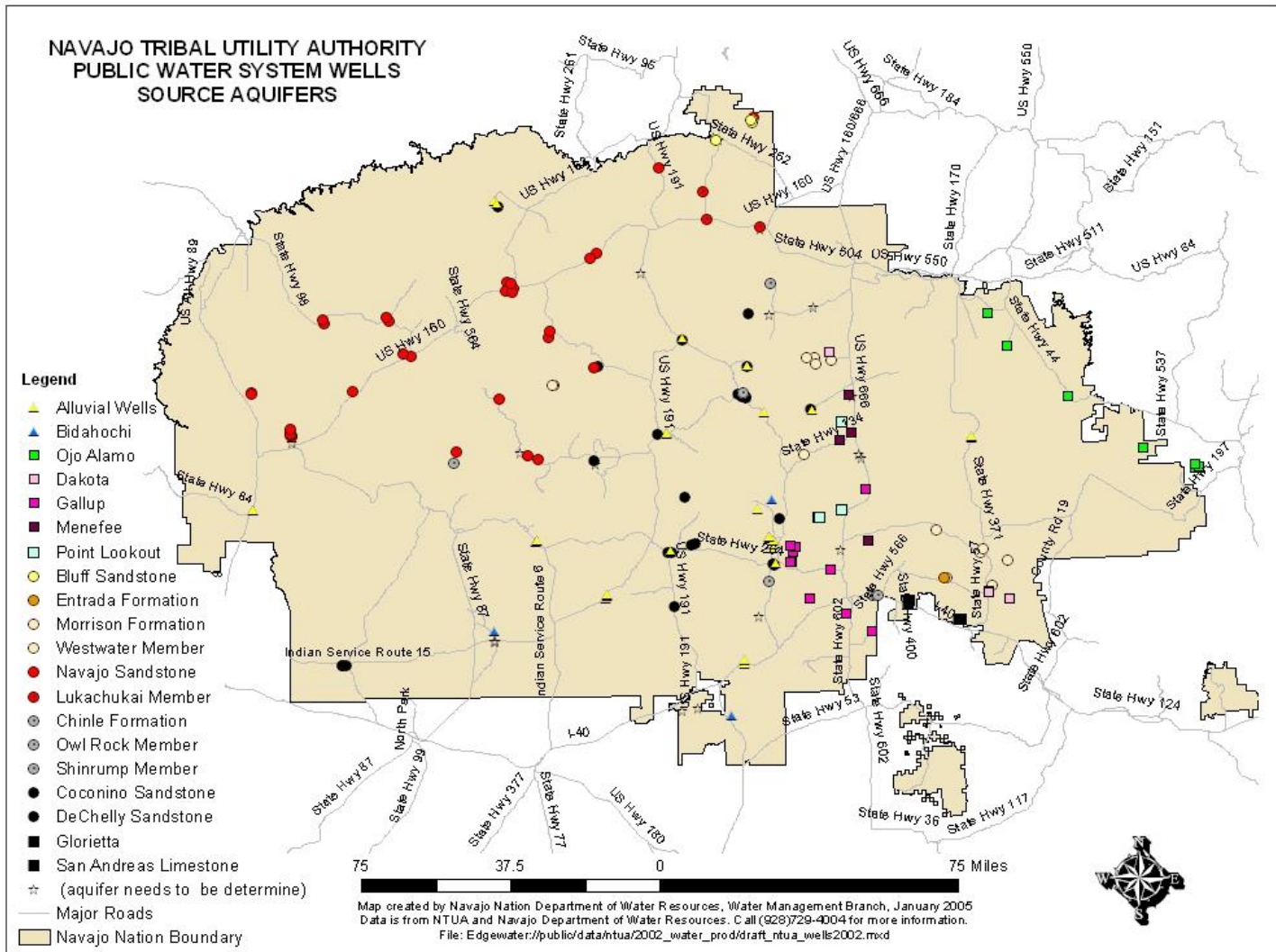
- Proposed Utah Water Supply Project
- Proposed Leupp-Dixon Water Supply Project
- Proposed Ganado Groundwater Supply Project
- Proposed Farmington-Shiprock Water Supply Project
- Proposed Shiprock to Sweetwater Pipeline Project



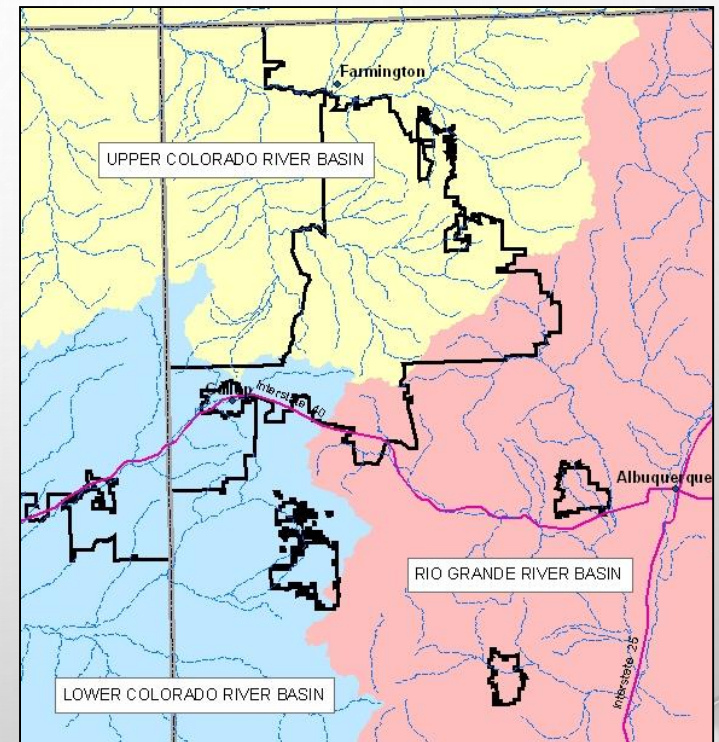
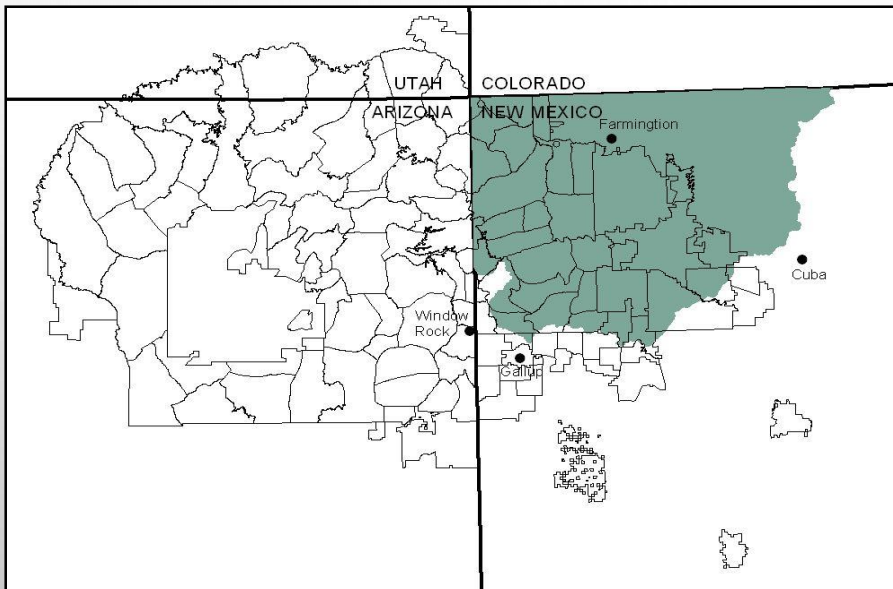
Navajo Nation:
Homes without Access
to Basic Sanitation Facilities

* This map does not represent all the known homes lacking access to safe drinking water or basic sanitation in the IHS database. These are only those that had sufficient information to be mapped at the time of this study.
** Former Bennett Freeze homes, and Structures within 1 mile of Abandoned Uranium Mines were sorted to identify potential homes without access to safe drinking water and/or basic sanitation.

CURRENT SUPPLIES: MORE THAN 90 PERCENT IS LIMITED GROUNDWATER. THE NAVAJO NATION NEEDS ACCESS TO RENEWABLE SURFACE WATER SUPPLIES



NAVAJO-GALLUP WATER SUPPLY PROJECT: A COMPONENT OF THE SAN JUAN RIVER BASIN OF NEW MEXICO WATER RIGHTS SETTLEMENT



THE NAVAJO-GALLUP WATER SUPPLY PROJECT



- PROJECT IS THE CORNERSTONE OF NAVAJO SAN JUAN RIVER IN NEW MEXICO WATER RIGHTS SETTLEMENT
- THE PROJECT WILL CONVEY WATER TO EASTERN PORTION OF THE NAVAJO NATION.
- PROJECT'S WATER BUDGET INCLUDES 43 NAVAJO CHAPTERS, INCLUDING COMMUNITIES OF FORT DEFIANCE AND SAINT MICHAELS (WINDOW ROCK).
- THE PROJECT WOULD DIVERT APPROXIMATELY 37,764 ACRE-FEET (AF) OF WATER ANNUALLY FROM THE SAN JUAN RIVER, AND USE CONJUNCTIVE GROUNDWATER.
- NAVAJO NATION - 29,064 AF
- JICARILLA - 1,200 AF
- GALLUP -7,500 AF
- THE PROJECT WILL SERVE APPROXIMATELY 203,000 PEOPLE ON THE NAVAJO NATION, 1,300 PEOPLE IN THE JICARILLA RESERVATION, AND 47,000 PEOPLE IN THE CITY OF GALLUP.

Navajo-Gallup Water Supply Project – SW Component

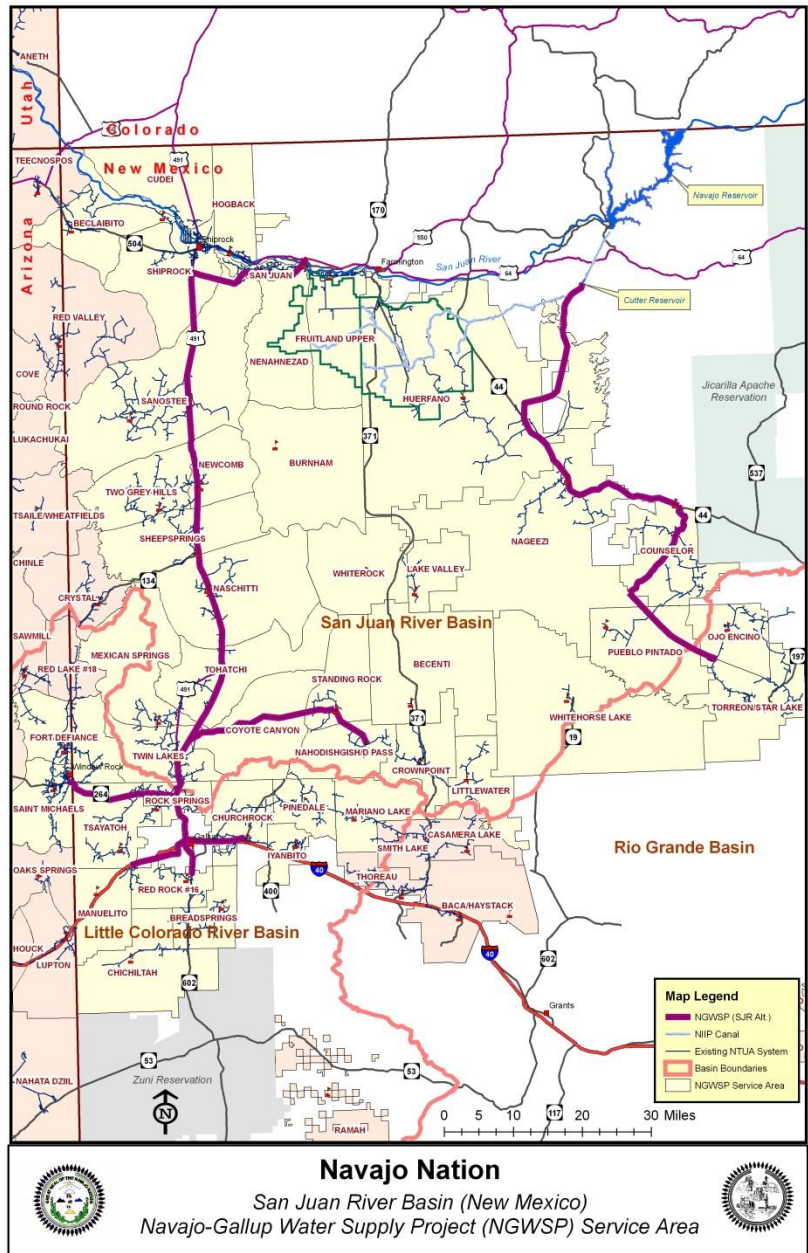
Navajo (AZ)
6,411 af

Navajo (NM)
22,653 af

Jicarilla
1,200 af

Gallup
(from Jicarilla
or Navajo)
7,500 af

Total
37,764 af



Navajo-Gallup Water Supply Project Service Area

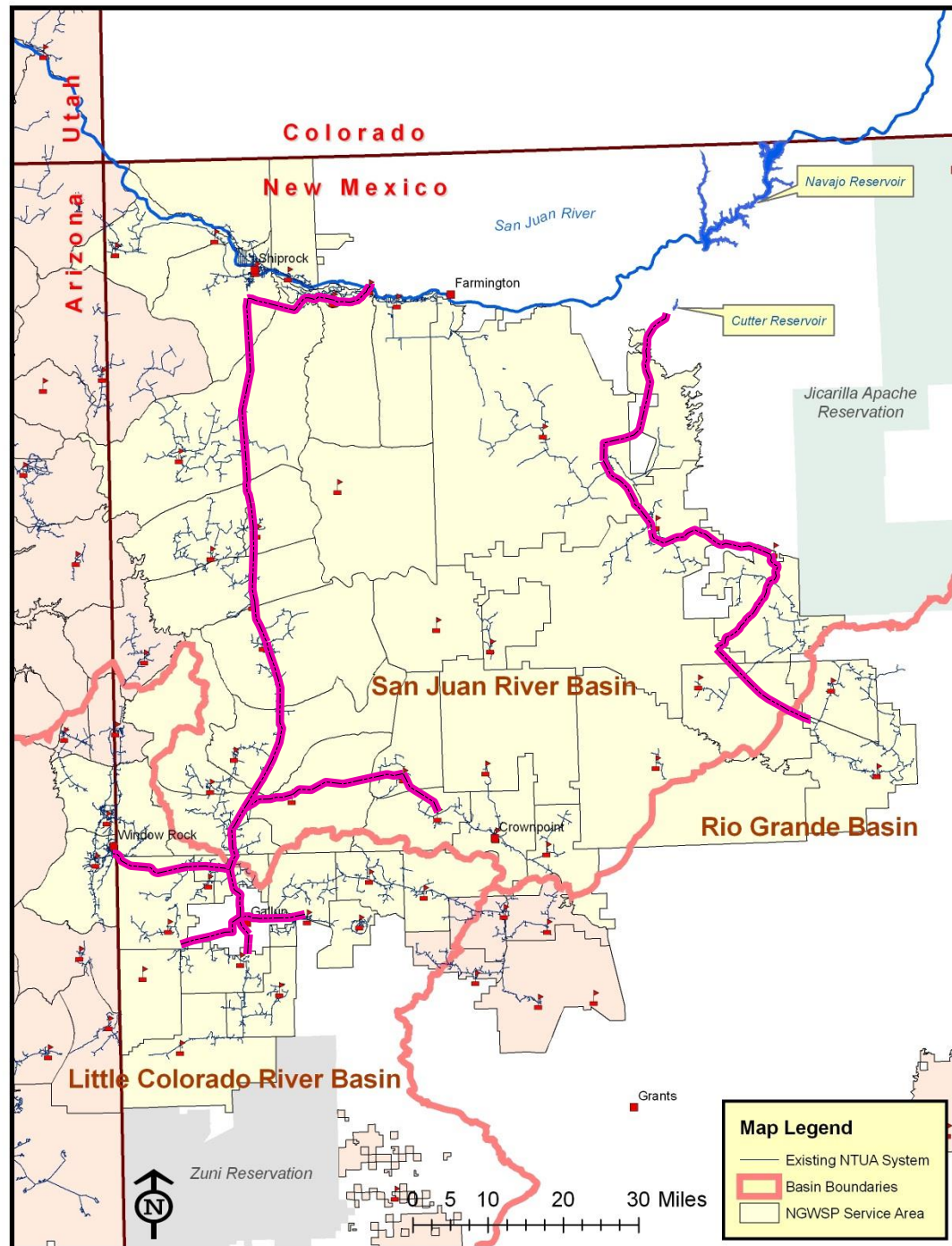
- 43 Navajo Chapters
- Indian Allotments
- NTUA existing and future customers



NGWSP Project

Project Components

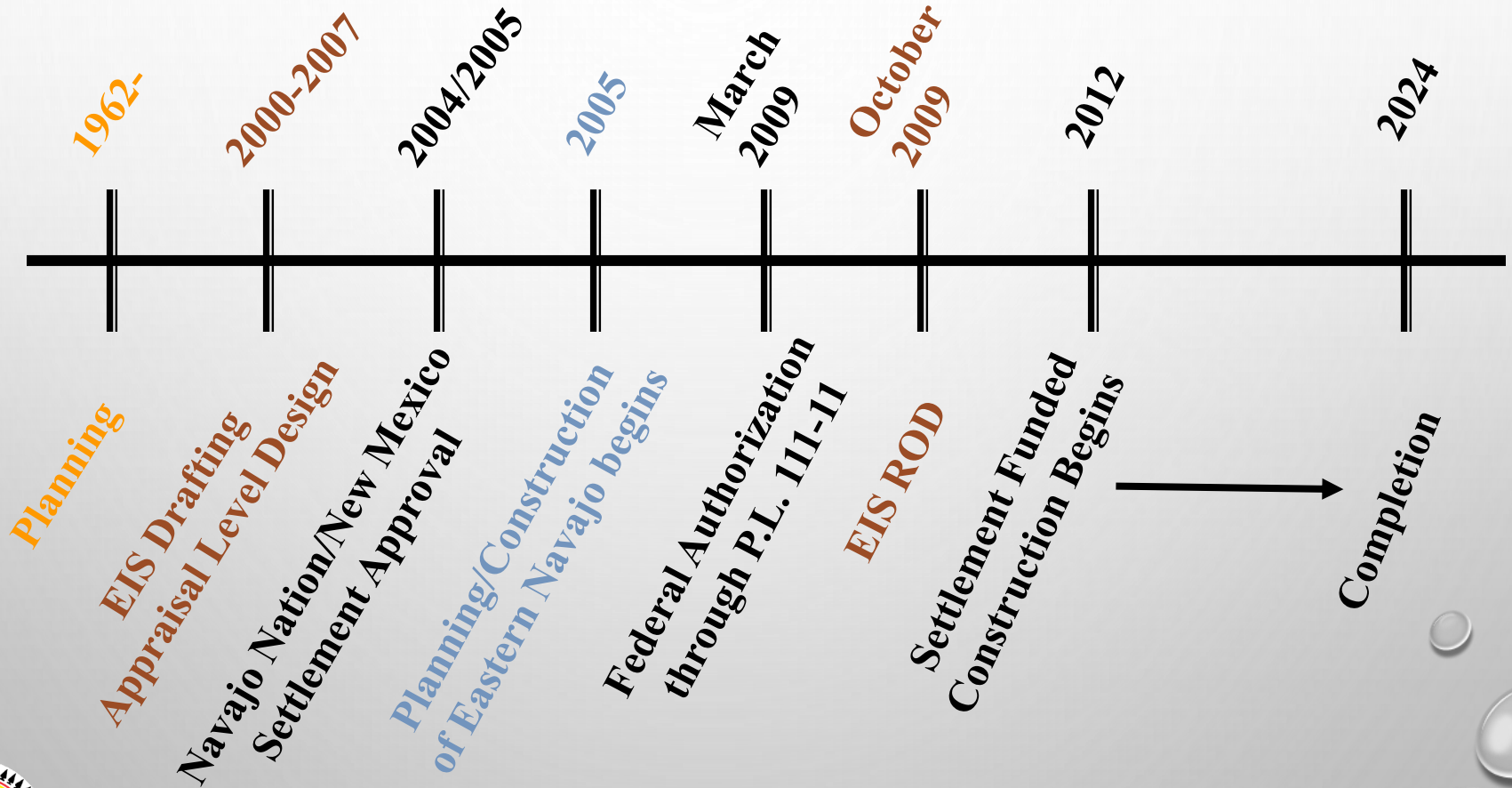
- 2 Water Treatment Plants
- 280 miles of Main Pipeline
- 20+ pumping plants
- 20+ storage tanks
- 100+ miles of powerlines

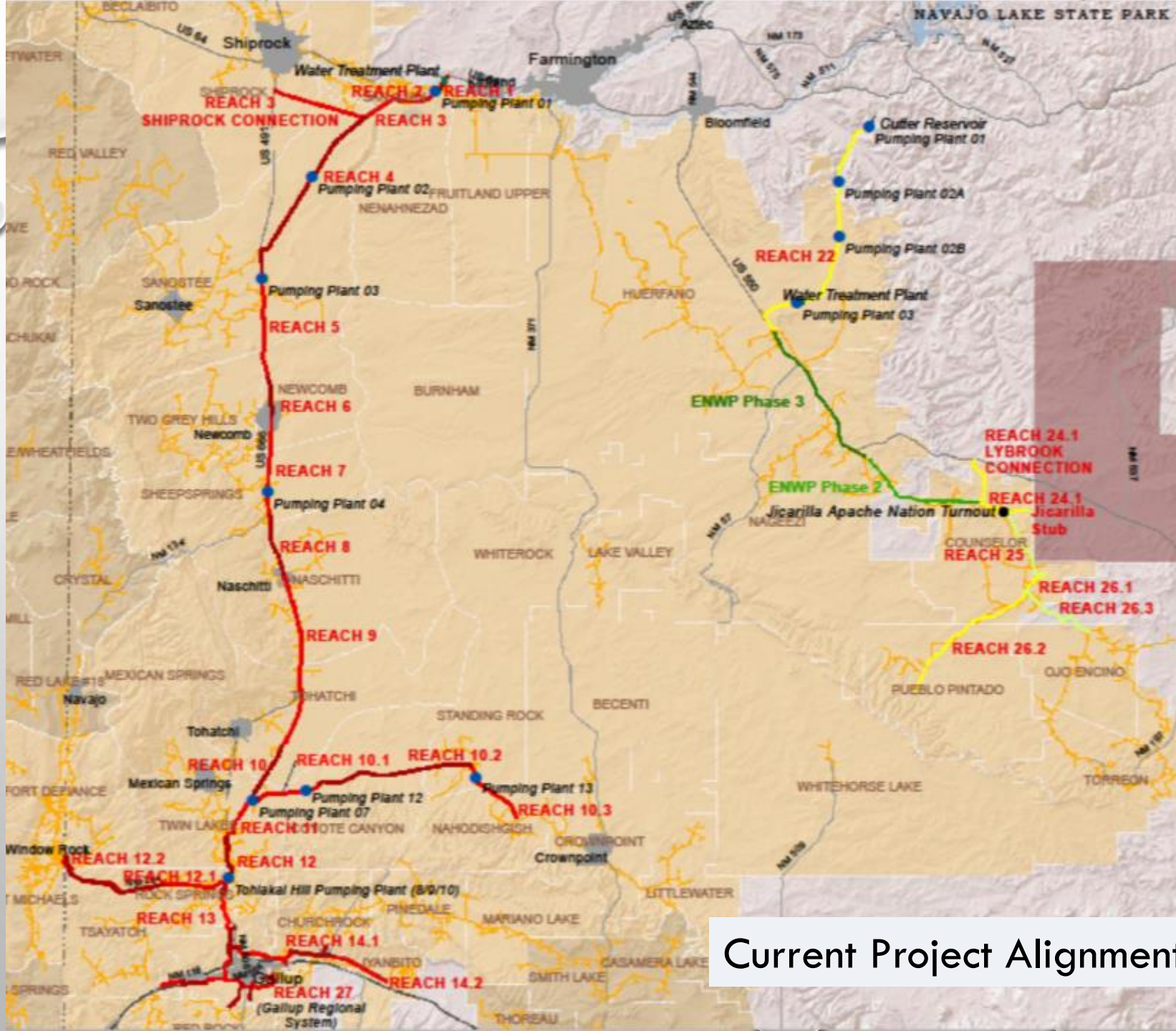


WORKING TOGETHER



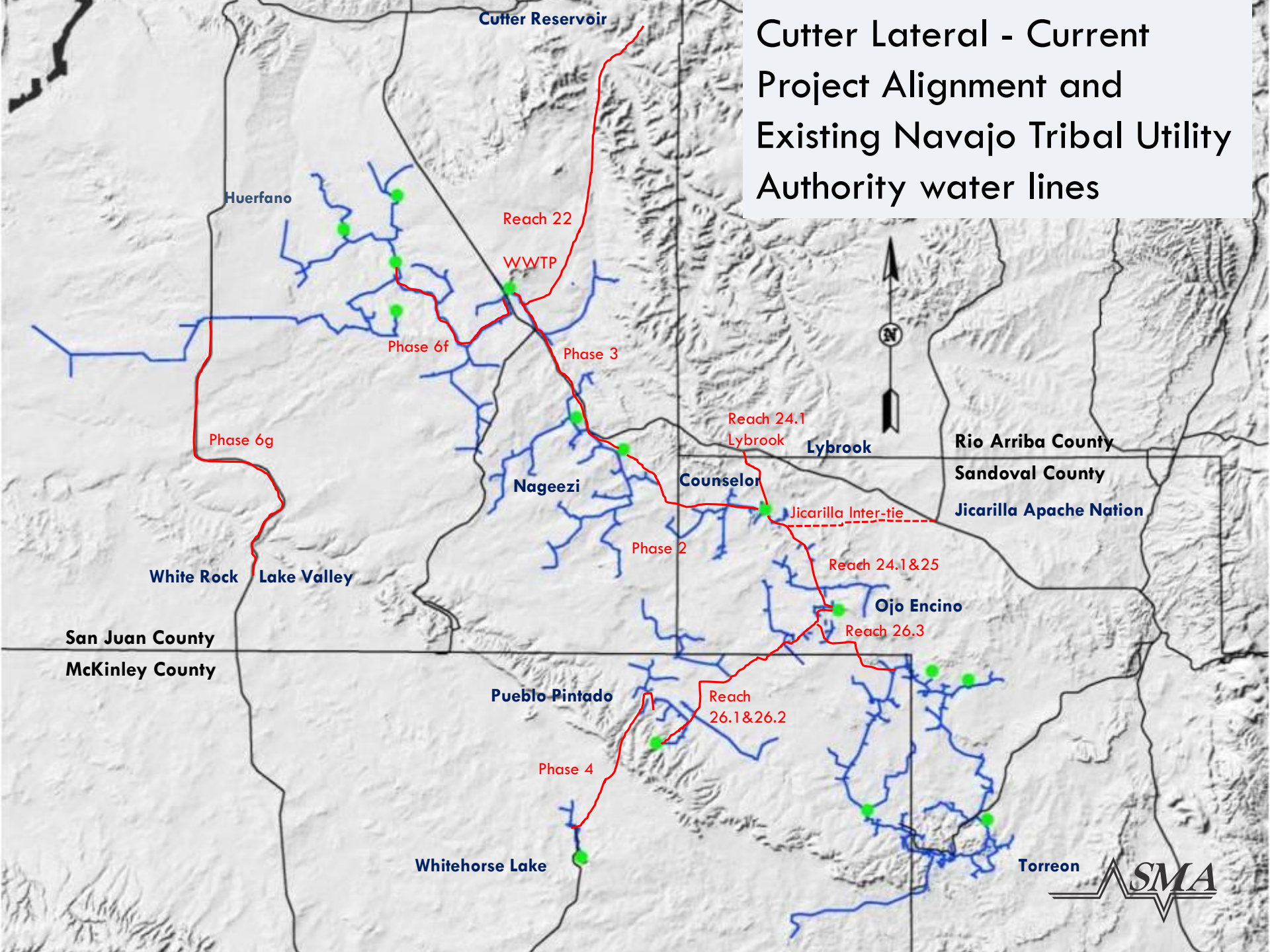
Navajo Gallup Water Supply Project





Current Project Alignment

Cutter Lateral - Current Project Alignment and Existing Navajo Tribal Utility Authority water lines



CUTTER LATERAL FUNDING SOURCES

Chapters (8 chapters@ \$20,000 each)	\$ 160,000
Navajo Nation Council appropriation	\$ 500,000
Navajo AML	\$ 1,700,000
State of New Mexico - TIF	\$ 1,300,000
State of New Mexico - NMED	\$ 18,625,000
USDA	\$ 9,750,000
Bureau of Reclamation	\$ 43,417,403
Total Cutter Lateral Funding (Excludes Reaches 21 & 22):	\$ 75,452,403





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ROBERTO E. ROSALES/JOURNAL

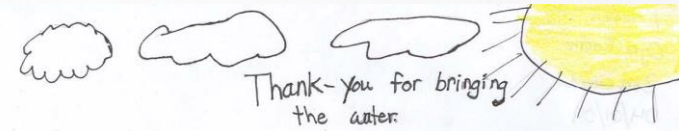
Running water is the big new thing in Rincon Marquez, southwest of Torreon, where residents celebrated with an arching spray from their water line's clean-out valve.

Finally, Water





Navajo Nation Water Development: PLANNING & COORDINATION IS KEY!



PRIORITIZATION & CONTACT INFORMATION

- ON OCTOBER 11, 2011 THE U.S. PRESIDENT SELECTED THE NAVAJO-GALLUP WATER SUPPLY PROJECT TO BE ONE OF FOURTEEN INFRASTRUCTURE PROJECTS TO BE EXPEDITED THROUGH THE PERMITTING AND ENVIRONMENTAL REVIEW PROCESS TO HELP CREATE JOBS. THIS HAS RESULTED IN THE PROJECT BEEN LISTED ON A NATIONAL WEBSITE TO TRACK THE PROGRESS OF THE PERMITTING AND REVIEW PROCESS. THE LINK FOR THE NATIONAL WEBSITE CAN BE FOUND WITHIN THE BUREAU OF RECLAMATION PROJECT WEBSITE:

[HTTP://WWW.USBR.GOV/UC/RM/NAVAJO/NAV-GALLUP/INDEX.HTML](http://www.usbr.gov/uc/rm/navajo/nav-gallup/index.html)

- IN 2012, THE NAVAJO NATION PRESIDENT ISSUED AN EXECUTIVE ORDER 03-2012 TO ASSIST IN THE DEVELOPMENT AND COORDINATION OF THE PROJECT WITHIN THE NAVAJO NATION.

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Thank You