LEGISLATIVE SUMMARY SHEET Tracking No. 0314-18

DATE: September 27, 2018

TITLE OF RESOLUTION: PROPOSED STANDING COMMITTEE RESOLUTION; AN ACTION RELATING TO RESOURCES AND DEVELOPMENT COMMITTEE, CERTIFYING PINEDALE CHAPTER'S COMMUNITY-BASED LAND USE PLAN WHICH HAS REEVALUATED AND READJUSTED PINEDALE CHAPTER'S FIRST COMMUNITY-BASED LAND USE PLAN

PURPOSE: The Chapters are required to reevaluate and readjust their initial Community-Based Land Use Plan every five years. The purpose of this legislation is for the Resources and Development Committee to certify Pinedale Chapter's new Community-Based Land Use Plan which has been reevaluated and readjusted since the Chapter's first Community-Based Land Use Plan was approved.

This written summary does not address recommended amendments as may be provided by the standing committees. The Office of Legislative Counsel requests each Council Delegate to review each proposed resolution in detail.

PROPOSED STANDING COMMITTEE RESOLUTION

23rd NAVAJO NATION COUNCIL—Fourth Year, 2018

DITRODUCED BY

TRACKING NO. 0314 - 18

ponsor

AN ACTION

RELATING TO RESOURCES AND DEVELOPMENT COMMITTEE, CERTIFYING
PINEDALE CHAPTER'S COMMUNITY-BASED LAND USE PLAN WHICH HAS
REEVALUATED AND READJUSTED PINEDALE CHAPTER'S FIRST
COMMUNITY-BASED LAND USE PLAN

BE IT ENACTED:

SECTION 1. AUTHORITY

- A. The Resources and Development Committee, pursuant to 26 N.N.C. §2004(D)(2) shall certify community-based land use plans.
- B. Pursuant to 26 N.N.C. §2004(D)(2), "Every five years the plan shall be reevaluated and readjusted to meet the needs of the changing community" and such readjustment is subject to the certification of the Resources and Development Committee of the Navajo Nation Council.
- C. Pursuant to 26 N.N.C. § 2004 (B), "Community Based Land Use Plan. The chapter, at a duly-called chapter meeting shall by resolution, vote to implement a community based land use plan, after the CLUPC has educated the community on the concepts, needs, and process for planning and implementing a community based land use plan. The community based land use plan shall project future community land needs, shown by location and extent, of areas identified for

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residential, commercial, industrial, and public purposes. The land use plan shall be based upon the guiding principles and vision as articulated by the community; along with information revealed in inventories and assessments of the natural, cultural, human resources, and community infrastructure; and, finally with consideration for the land-carrying capacity. Such a plan may also include the following: 1. An open space plan which preserves for the people certain areas to be retained in their natural state or developed for recreational purposes. 2. A thoroughfare plan which provides information about the existing and proposed road network in relation to the land use of the surrounding area. 3. A community facilities plan which shows the location, type, capacity, and area served, of present and projected or required community facilities including, but not limited to, recreation areas, schools, libraries, and other public buildings. It will also show related public utilities and services and indicate how these services are associated with future land use."

SECTION 2. FINDINGS

- A. Pursuant to Committee Resolution TCDCJY-22-05, the Transportation and Community Development Committee (predecessor to the Resources and Development Committee; CO-45-12) approved the Pinedale Chapter's Community-Based Land Use Plan in 2005.
- B. Pursuant to Pinedale Chapter Resolution PDC-09-18-203, attached as Exhibit B, the Pinedale Chapter approved the Community-Based Land Use Plan which is attached as Exhibit A.
- C. The Resources and Development Committee of the Navajo Nation Council finds it in the best interest of the Navajo Nation to certify the Pinedale Chapter's Community-Based Land Use Plan which has been reevaluated and readjusted to meet the needs of the changing community.

SECTION 3. Certification of Pinedale Chapter's Reevaluated and Readjusted Community-Based Land Use Plan

- A. The Resources and Development Committee of the Navajo Nation Council hereby certifies the reevaluated and readjusted Pinedale Chapter's Community-Based Land Use Plan, attached hereto as Exhibit A.
- B. Certification of this Community-Based Land Use Plan shall not delineate adjacent chapter boundaries. Any chapter disputes rest solely with the Courts of the Navajo Nation.

PINEDALE CHAPTER COMMUNITY LAND USE PLAN

EXHIBIT

Titus Nez, Community Services Coordinator



Acknowledgements

Pinedale Chapter Officials

Raphael Martin, President

Clara J. Daye, Vice-President

Dorothy Harjo, Secretary/Treasurer

Loren Cooke, Land Board Member

Community Land Use Planning Committee

Willie Norton, President

Joan Miller, Vice-President

Louise Mariano, Secretary

Lawrence T. Morgan, Member

Clara Harry, Member

Administration Team

Titus J. Nez, Community Services Coordinator

Laverna Holtsoi, Accounts Maintenance Specialist

Ruby Tsosie, Office Aide II

Jonathan Begay, Administrative Assistant

Prepared by:

Titus Nez for Pinedale Chapter P.O. Box 03 Churchrock, New Mexico 87311 tnez@navajochapters.org

In a collaborative effort with the Pinedale Chapter Officials, Administration and Community Land Use Planning Committee. We are one community, one voice and one direction.



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RESOLUTION OF THE PINEDALE COMMUNITY BASED LAND USE PLANNING COMMITTEE

ACCEPTING AND APPROVING THE CBLUPC 2018 MANUAL FOR RECERTIFICATION FOR USE OF DEVELOPMENT OF PINEDALE CHAPTER COMMUNITY

WHEREAS:

- 1. The Community Based Land Use Committee have been established by Pinedale Chapter in accordance to Navajo Nation Title 26, section 2004 (B), (C), (D), and (E); and
- 2. The Pinedale Chapter have appointed and authorized the CBLUPC to immediately began process for re-certification of the Land Use Manual of 2018; and
- 3. The Navajo Nation Council Resource and Development Committee have reviewed and approved the initial land use plan from July 07, 2005; and
- 4. The Pinedale CBLUPC and the Administration Staff to take the lead and begun working on the recertification of the manual; and
- 5. The Pinedale CBLUC have conducted work session, and public hearing (2), and performed surveys with the community residents to serve as "census" for developing sustainable plans; and
- 6. The Pinedale CBLUPC have to present the 2018 manual to the current Resource and Development Committee for recertification and re-authorization for the next five (5) years; and
- 7. The Pinedale CBLUPC have reviewed, amended and recommends to the Pinedale Chapter for approval of this foregoing 2018 manual.

NOW THEREFORE IT BE RESOLVED THAT:

Clara Harry, Member

- 1. The Pinedale Chapter to review and approve the 2018 Community Based Land Use Planning Committee working manual for next 5 years.
- 2. The Pinedale Chapter recommends to approve the plan to the Pinedale Chapter and the Navajo Nation Resource and Development Committee.

CERTIFICATION

	EKTIFICATION
	orgoing matter at a duly called meeting with a said quorum _, 2018 at the Pinedale Chapter in Pinedale, (Navajo Nation) opposed and Ol abstaining.
West Mexico Will	
Motion by: Lawrence T. Morgan	Seconded by:loan Miller
**	
Calle The	Jon Mielas
Willie Norton, President	Joan Miller, Vice-President
America (DO)	MANO
Louise Mariano, Secretary	Lawrence T. Morgan, Member
Clanthy	

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2 Introduction

This plan is known as "Pinedale Chapter Community-based Land Use plan", as adopted by the Pinedale Chapter through resolution no. ______ and certified by the Resource and Development Committee of the Navajo Nation Council. This plan is a full revision of the Final Report plan created in 2005.

The purpose of this plan is required under Navajo Nation Tribal Code 26, Section 2004. This plan will emphasize the past, present and future of Pinedale Chapter and its surrounding communities with authority vested within this act.

This Community-based Land Use Plan is an official document approved by the Pinedale Chapter community members through resolution. It will serve as a policy guide for all land use development and assist in future growth for the community. This document is a working document and will continue to change constantly.

2.1 MISSION STATEMENT

To develop and formulate infrastructure (i.e. agricultural, economic, industrial, and social development) and provide opportunities for the younger generation to carry on public and private land use, resources management, and future preservation of the environment and cultural assets

2.2 OUR VISION

We envision a detailed land use planning organization with an effective leadership within the next five years by:

- 1. Re-naming the Pinedale Community-Based Land Use Planning Committee and establishing the Pinedale Community Development Committee
- 2. Establish, plan, and construct Rainbow Falls Cemetery, Sounding Wells Park and To Beehwiisgani historical marker
- 3. Withdrawing land in accordance to our approve land use plan
- 4. Continue to increase land base for the community (State, Fee, BLM, Executive-order, Private and Land-buy back areas)
- 5. Continue to work closely with the chapter and when it becomes local governance certified under Navajo Nation Code (NNC) 26 to ensure both documents are compatible
- 6. Creating a framework for a Zoning ordinance and other ordinances
- 7. Partnering with the Navajo Nation Division of Transportation to implement the approved Community Thoroughfare Plan
- 8. Approving and issuing land for housing, economic, industrial and public/infrastructure development (communication tower, solar/wind turbine farm, farming, electric/water easement, mobile home park, waste disposal, water tank, cemeteries and additional development)



2.3 GOALS AND OBJECTIVIES

According to our approved Strategic plan, our goals and objectives are listed as follows:

2.3.1 Land Use Planning

2.3.1.1 Goal #1 – Re-develop our Plan of Operation & name

Objective:	Assignment	Begin Date	Deadline	
Conduct a worksession to review Plan of	CLUPC President &	FY 2019 – Qtr. 1	FY 2019 - Qtr. 1	
operation and make amend changes	members	October	November	
Present Plan of Operation to CLUPC for				
favorable consideration	CLUPC members,	·		
Introduce supporting/adopting resolution	Chapter Officials, PDC			
for consideration of POO revisions by	Community members			
Pinedale Chapter membership				

2.3.1.2 Goal# 2 - Withdraw lands according to approved Community Land Use Plan

Objective:	Assignment	Begin Date	Deadline
Review land status and formally approve supporting resolution	CLUPC	FY 2019 - Qtr. 2 January	
Procure services to hire consultant to conduct land analysis, survey and archeological reporting	CLUPC, Chapter Administration, Hired Consultant	FY 2019 – Qtr. 2 March	
Present supporting resolution for consideration to Pinedale Chapter membership	CLUPC, Chapter Officials, PDC community members	FY 2019 – Qtr. 4 July	

2.3.1.3 Goal# 3 – Continue to increase land base for the community (State, Fee, BLM, Executive-Order, Private and Land Buy-back areas)

Objective:	Assignment	Begin Date	Deadline
Identify land status that are not: Navajo Tribal Trust land within the Pinedale Chapter community service area	CLUPC	FY 2019 – Qtr. 4	
Meet with landholder owners and began discussing land transfers	CLUPC, land owners	FY 2020 – Qtr. 1	
Develop land use planning for each land transferred back to chapter		FY 2020 – Qtr. 2	

2.3.1.4 Goal# 4 – Continue to work closely with the chapter and when it becomes local governance certified under Navajo Nation code (NNC) 26 to ensure both documents are compatible

Objective:	Assignment	Begin Date	Deadline
Work with chapter administration on projects relevant to community land use	CLUPC, CSC	On-going	
Attend chapter worksession related to LGA review and development	CLUPC, CSC/AMS, Chapter officials	On-going	



2.3.1.5 Goal#5 Create framework for Zoning ordinance and other ordinances

Objective:	Assignment	Begin Date	Deadline
Research different zoning ordinances within the Navajo Nation, cities, County and State	CLUPC, CSC	FY 2020 – Qtr. 3	
Hold CLUPC worksession and create a draft policy on Zoning ordinance	CLUPC, CSC	FY 2020 – Qtr. 3	
Approval process for Zoning ordinance	CLUPC, CSC, NN DOJ, PDC	FY 2020 – Qtr. 4	

2.3.1.6 Goal#6 – Partnering with Navajo Nation Division of Transportation to implement the approved Community Thoroughfare Plan

Objective:	Assignment	Begin Date	Deadline
Meet with NNDOT and discuss approved community Thoroughfare Plan	CLUPC, NNDOT	FY 2021 – Qtr. 1	
Create MOA/MOU between PDC and NNDOT on partnership	CLUPC, PDC, NNDOT	FY 20121- Qtr. 2	
Implement Thoroughfare Plan	CLUPC, NNDOT, PDC	FY 2021 – Qtr. 3	

2.3.1.7 Goal #7 - Approving and issuing land for housing, economic, industrial and public/infrastructure development (communication tower, solar/wind turbine farm, farming, electric/water easement, Mobile Home Park, waste disposal, water tank, cemeteries and additional development)

Objective:	Assignment	Begin Date	Deadline
Research Kayenta model on approving own	CLUPC	FY 2020 - Qtr. 2	
land usage			
Begin communication with Navajo Nation	CLUPC, Chapter, Council	FY 2020 - Qtr. 3	
Council in possible pilot project	Delegate		

GANNT CHART PLANNING FOR COMMUNITYLAND USE PLANNING COMMITTEE PINED/

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		0707 14
Goal planning	Assigned to:	Quarter 2 Quarter 3 Quarter 4 Quarter 1 Quarter 2 Quarter 3 Quarter
		Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
GOAL 1: Redevelop our Pian of Operation and change name	ation and change name	
1. Conduct worksession on plan and make changes	Community Land Use Planning Committee	
2. CLUPC Approval	Community Land Use Planning Committee	
3. Community Approval	Chapter	
GOAL 2: Withdraw land according to approved land use plan	approved land use plan	
1. Review land status and formally		
2. Procure services to hire		
consultants to provide planning		
3. Present resolution for community approval		
GOAL 3: Continue to increase land base for the community	ase for the community	
1. Identify land status		
Meet with land owner and began planning efforts for land transfer		
3. Develop land use plan for newly acquire land		
GOAL 4: Work closely with Chapter through LGA certification	hrough LGA	
1. Work with Chapter Admin on projects, relevant to land use plan		
 Attend worksessions related to LGA certification planning & implementation 		

PINED MITTER GANNT CHART PLANNING FOR COMMUNITYLAND USE PLANNING COMMITTEE

Goal planning Assigned to: Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jul Aug Sep Oct Nov Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jul Aug Sep Oct Nov Ju				学の本書を表	を こう で		FY 2020								FY	FY 2021				
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ordinance I. Research different ordinance and other Ordinance I. Hold CLUPC hearing on proposed Community Land Use Ordinance I. Hold CLUPC hearing on proposed Community Land Use Ordinance Ord		•	Oct No	Оес	Jan Fe	b Mai	r Apr	May Ju	lu(n	Aug S		t Nov	Dec	Jan Fe	b Mar	Apr	Мау	Jun	u A	ag Se
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oposed nance DOT to i cuss en PDC land pern	ordinance																			
oposed ance DOT to i Cuss en PDC Plan land pern		Community Land Use																		
C hearing on proposed rocess for ordinance nering with NN DOT to in a Plan NNDOT and discuss uughfare Plan IV/MOA between PDC I	within NN, State and Federa	Planning Committee														_				
nering with NN DOT to in a Plan NNDOT and discuss anghfare Plan IV/MOA between PDC Thoroughfare Plan rove and issue land pern (ayenta model on rmits) ing efforts with Navajo in on plans		Community Land Use																		
3. Approval process for ordinance Chapter GOAL 6: Partnering with NN DOT to implement approved Thoroughfare Plan 1. Meet with NNDOT and discuss approve Throughfare Plan 2. Create MOU/MOA between PDC and NNDOT 3. Implement Thoroughfare Plan GOAL 7: Approve and issue land permit for housing, business etc 1. Research Kayenta model on approving permits 2. Begin planning efforts with Navajo Nation Council on plans	ordinance	Planning Committee																		
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Thoroughfare Plan 1. Meet with NNDOT and discuss approve Throughfare Plan 2. Create MOU/MOA between PDC and NNDOT and NNDOT 3. Implement Thoroughfare Plan GOAL 7: Approve and issue land permit for housing, business etc 1. Research Kayenta model on approving permits 2. Begin planning efforts with Navajo Nation Council on plans	GOAL 6: Partnering with NN DOT to i	mplement approved									-		1							
1. Meet with NNDOT and discuss approve Throughfare Plan 2. Create MOU/MOA between PDC and NNDOT 3. Implement Thoroughfare Plan GOAL 7: Approve and issue land permit for housing, business etc 1. Research Kayenta model on approving permits 2 Begin planning efforts with Navajo Nation Council on plans	Thoroughfare Plan																			
approve Throughfare Plan 2. Create MOU/MOA between PDC and NNDOT 3. Implement Thoroughfare Plan GOAL 7: Approve and issue land permit for housing, business etc 1. Research Kayenta model on approving permits 2 Begin planning efforts with Navajo Nation Council on plans	1. Meet with NNDOT and discuss																			
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2 Begin planning efforts with Navajo Nation Council on plans	approving permits										-					-				
Nation Council on plans	2 Begin planning efforts with Navajo									-										
	Nation Council on plans											_			_					

2.4 RAINBOW FALLS CEMETERY

Project start date: November 1, 2018

Rainbow Falls Cemetery will be located about 2.5 miles north of Pinedale Chapter in the Rainbow Canyon area. The Pinedale Chapter Officials, Administration and CLUPC will work in collaborative effort to plan, design and construct a community cemetery with a total of 4 acres.

Proposed amenities: fenced property, access road and landscape.

2.5 Sounding Well Park

Project start date: November 1, 2018

Sounding Well Park will be located about 1.5 miles south of Pinedale Chapter near the historic old Pinedale Chapter building. The Chapter Officials, Administration and CLUPC will work in collaborative effort to plan, design and construct a community cemetery with a total of 3 aces.

Proposed amenities: Picnic table, arbor, benches and gravel parking.

Short-term planning: Basketball court, volleyball court, walking/hiking/bike trail and playground.

Long-range planning: paved parking, paved access road, veteran memorial, expanded picnic area, permanent restroom facilities and plaza.

2.6 TO BEEWHIISGANI HISTORICAL MARKER

Project start date: Febrary 2019

The Tobeewhiisgani Historical marker will located old To Gani well, historic location/landmark of well. The well is permanently closed to public use since the early part of the 2000's. Community members expressed concerns to ensure the well has historic significants for future generations to visualize early hardship of community sustainability.

Proposed amenities: Historical marker

Long-term planning: gravel parking lot, plague and access road.



2.7 COMMITTEE IMPLEMENTATION PLAN

2.7.1 Introduction

The implementation plan identifies specific actions that the Pinedale Community Land Use Planning Committee should take to further their actions in community, economic, expansion and development of the community.

Time Fra	ame				
Short Term (1-2 Years)	Intermediate (3-5 Years)	Long Term (5+ Years)	On Going	Action	
				Create Land Development Standards to be consistent with CLUPC manual	
				Develop a Zoning Ordinance for designated land use recommendation sites	
				Create regional partnership to build economic hub with neighboring Chapters	
				Annex nearby areas that have direct chapter affiliation for direct services	
				Organize study group to implement 50 year plan	
				Acquire Foutz land with collaboration with the Navajo Land Department and Navajo Nation Council	
				Implement Chapter's Infrastructure Capital Improvement Plan	

2.8 TITLE 26 AUTHORITY

The Navajo Nation Council passed "Navajo Nation Local Governance Act" Leg. No. CAP-34-98 Enacted April 20, 1998 and signed by Former President Thomas Atcitty.

According to Section 2004 B.

"The Chapter, at a meeting duly-called chapter meeting, shall by resolution, vote to implement a community based land use plan, after the CLUPC has educated the community on the concepts, needs, and process for planning and implementing a community based land use plan. The community based land use plan shall project future community land needs, shown by location and extent, of areas identified for residential, commercial, industrial, and public purposes. The land use plan shall be based upon the guiding principles and vision as articulated by the community; along with information revealed in inventories and assessments of the natural, cultural, human resources, and community infrastructure; and, finally with consideration for the land-carrying capacity. Such a plan may also include, the following:

- 1. An open space plan which preserves for the people certain areas to be retained in their natural state or developed for recreational purposes.
- 2. A thoroughfare plan which provides information about the existing and proposed road network in relation to the land use of the surrounding area.
- 3. A community facilities plan which shows the location, type, capacity, and area served, of present and projected or required community facilities including, but not limited to, recreation areas, schools, libraries, and other public buildings. It will also show related public utilities and services and indicate how these services are associated with future land use.

2.9 ORIGINAL INTENT OF PLAN

The original intent of the Pinedale Chapter Land Use Plan Manual was created through NAHASDA (Native American Housing Assistance and Self Determination Act of 1996). NAHASDA provided grants to the Navajo Nation to assist all 110 chapters to create a land use plan for potential housing development and land use planning

CLUPC at the time recommended 3 potential housing development sites; however due to certain findings they were unable to begin planning & construction. Since the original approval of the plan, there have been economic growth and changes within the land use landscape.

2.10 PLANNING PROCESS - PARFAI

The Pinedale Chapter Community Based Land Use Planning Committee begin its planning initiative in January 2018 collaborating with the Chapter Officials and Administration. Flowchart (Figure 1 Planning Process for Pinedale CLUPC) refers to the process will take to get the plan draft, reviewed, finalized, approved and implemented.



PLANNING PROCESS FLOWCHART

• Conduct Pre-planning worksession to gather information Host 3 day worksession to compile CLUPC manual **Planning** • Utilize Community Participation Plan • Host Public hearing on current form of CLUPC manual Review • 60 days comment period (Community feedback) • Prepare Finalize CLUPC Manual • Present manual with Resolution to community for **Finalize** consideration • Recommendation for approval by community via resolution Present approved manual to NN Resource & Development Committee for approval Pinedale CLUPC will implement manual Continue to review & modify manual

Figure 1 Planning Process for Pinedale CLUPC



3.1 GEOGRAPHICAL LOCATION

Pinedale Chapter boundary is located within the northwest of the State of New Mexico within McKinley County. The chapter boundary is located in Eastern Navajo Agency in the southeast corner of the Navajo Nation.

The Pinedale Chapter is located at latitude 35.610568° and longitude -108.449318° at Township 16N Range 15W Section 17 within the SWSE quadrant.

Pinedale 2

Figure 2 Location of Pinedale Chapter within the Navajo Nation boundary (Photo courtesy of Navajo Times)

3.2 ORIGINATION OF NAVAJO NAME

The Pinedale Chapter (*Tó Bééhwiisgání*) is located in the northwest quadrant of the State of New Mexico,

centrally located in McKinley County. The late Bennie Y. Begay (Begay, 2004) says Pinedale originally had two artesian wells. One of the well was originally by the old Pinedale Store. During the dry seasons, the well would evaporate, and there would be hard crusted edges of dried mud surrounding the edges. That is where the name – Hardened Mud around water came to be – To baasghani. The Diné name Tó Bééhwiisgání, was named after a local artisan well founded by Hastíín Tó ganí, who had dug the well.

3.3 FIRST CHAPTER HOUSE (1931)

According to Bennie Y. Begay (Begay, 2004), he was just a boy when the first chapter was built.

Here is Mr. Begay's recount at that time:

"At that time, Sam Gray was the community leader and Chapter President. During those days, the leaders met outside near the old Pinedale Day School to discuss community issues. During that time, the people would come together and talk about who wanted to help with corn fields or house building and road improvement projects. They talked about who would be willing to offer help to those families that needed help. If there was any type of family conflict, the



Figure 3 First Pinedale Chapter House, located about 1/2 mile south of new chapter house

chapter officials helped the disputing families resolve their conflict.

Sam Gray proposed that the Pinedale community build a chapter house, so the community members discussed who would be willing to help build the chapter. The community members hauled stones from Second Canyon by wagon. It took about three months to build the chapter house.

Some of the students from Wingate Vocational High School (WVHS) helped. Also, money was not a major part of the Navajo economy. The people in office volunteered their time. They even brought their own food to the worksites. They were not paid to be leaders. The students from WVHS built the roof for the chapter house. The wood for the roof came from Ft. Wingate. The older men built benches for the chapter house and finished the interior.

After the chapter house was finished, there was a dedication. Sheep was butchered to celebrate the opening. At the time, they did not have processed foods. They relied only on the crops they grew and their livestock."

Bennie Y. Begay, a boy at the time, also assisted with the building of the Pinedale Chapter House. He helped with the mixing of the mud for the inlaying of the bricks.

3.4 LOCAL COMMUNITY NAMES

Every region, chapter and community has its unique name based off of land feature, clan leader, location or proximity of area. Here are some history community names and locations within Pinedale Chapter.

Navajo Name	English Name	Location & history
Toyeii'	Name of dam	Ram Mesa District
	against ridge.	Southside of Navajo Route 11-49 near MP 2
	Nooda'l	
	bik'indashdo.	
	Used for centuries	
Iłnáásjin	Fire Dance	Ram Mesa District
	Ceremony	Southside of Navajo Route 11-49 near MP 3
Nááyizí háásná'	Pumpkin crawl up	Second Canyon District
		North of N-7054 in Second Canyon area
Yáániil K'íd		Pinedale District
		West of Lobo Valley Road
Yááłbeeh		Ram Mesa District
		Northside of Navajo Route 11-49 near MP 4
		West of Pinedale Chapter
Béésh Sitiní	Lime metal (referred	Rio Puerco District
	to culvert never	NW of Lobo Valley Road and Rainbow Trail Rd
	used	
Nááts' í í lid	Rainbow Canyon	Rio Puerco District
		Rainbow Trail Road area,2 miles north of store
		After it rains, a rainbow forms within the valley
Tsé Nizhoní	Pretty Rock	Pinedale District
		Northside of Navajo Route 11-49 near MP 6
Nák'eehtó Naaliní	Tear drop flowing	Rio Puerco District
4/4		Waterfalls community, north of Navajo Route 11-49
Ch'ílí Yaat'í	Chimney	Pinedale District
		South of Navajo Route 11-49 near MP 6



		Old cabin home owned by non-Navajo, home burned down and only
		chimney was left.
Nidishchíí yaa'ííh	Under the pine	Pinedale District
	trees	South of Navajo Route 11-49 near MP 5
łigai da'áts'osí	Pointed White	Second Canyon District
	Rock mesa	Navajo Route 7054
T'iis Naakezi	Falling Maple	Falling Maple District
	Canyon	Southeast of Pinedale Chapter
Tse Alnii si'ani	Rock in the middle	
	of the canyon	
	(Table Rock)	
Tse yaa chaalheel	Darkness under	North of Ram Mesa District
	the rock	Pipeline Road
Tsin ii'ahi	Near late Ben	Ram Mesa District
	Yazzie area	NM Hwy 566
		Northwest of Pinedale Chapter
	Mule track	West of Falling Maple District
Jaa neez habitiin		South of Midget Mesa Road
		Southwest of Pinedale Chapter
Tse shijaah	Sole pile of rock	Ram Mesa District
	(Near Keith Begay	North of Navajo Route 11-49
	residence)	West of Pinedale Chapter
Xoshta	Cactus area	Second Canyon District
		Intersection of N7054 and NRt 1149
Naa na'aztiin	Curve road	West of Ram Mesa District
		Uphill Road and Old Churchrock Mine Road
Tsiih daal chiih	Red Top	West of Ram Mesa District
		Uphill Road & Red Top Road
Yaa'iih tiin	Up Hill road	West of Ram Mesa District
		Uphill Road – Springsteads
Tse awozi sila	Rock Ridge area	East of Falling Maple District
		Rocky Ridge Road – Mariano Lake
To Diits'a'i	Sound well	Pinedale District
		Pinedale Loop near old Chapter house



3.5 OUR PAST AND PRESENT LEADERS

Every clan, community and region have a leader, one who leads for improving the land, bringing opportunities and setting a legacy for the future. Pinedale is known to set that example and to have leaders with many ideas, visions and leaving behind for generations to remember. We proudly introduce some of our known leaders here:

Navajo Tribal Vice-Chairman Johnny R. Thompson



Figure 4 L-R NN Vice-Chairman Johnny R. Thompson and NN Chairman Peter MacDonald.

Mr. Johnny R. Thompson a life-long resident of the Pinedale community served as the local Tribal Council Member representing District 16. He was elected Vice-Chairman with former Navajo Tribal Chairman Peter MacDonald

Mr. Thompson was raised around the Tsé Nizhoní area. His Diné clans are: Two Who Came to the Water Clan (Tó Baazhni'áazhi) and born for Towering House Clan (Kiy'áá'áánii). He is the son of the late Ben & Roberta Thompson and grandson of the late Sam Silversmith.

Mr. Thompson advocated to pave Navajo Figure 5 Vice-Chairman Thompson Route 11-49, lobbied to create a State-Nation partnership.



speaking before the State of New Mexico Legislature on tribal-state relations

Navajo Nation Speaker Lawrence T. Morgan 3.5.2



Figure 6 Official Portrait of Navajo Nation Speaker Lawrence T. Morgan.

Mr. Lawrence T. Morgan of Timber Ridge within the Pinedale community was elected to the Navajo Nation Council in 1992. He served 20 years representing Pinedale and Ivanbito Chapters. His clans are Black-streak wood clan (Tsinaajini) and born for Meadow Clan (Haltsooi). He is the son of Mr. Tom Morgan and the late Elizabeth Morgan.

During his 20 years on the Navajo Nation Council he was elected Speaker, a two year term serving more than 4 terms in his capacity. Mr. Morgan advocated for his people in Window Rock and Washington, D.C. He also served as Chairman of the Transportation

and Community Development Committee. He continues to serve his people through being elected as Chapter Vice-President, School Board member and recently on the Pinedale Community Land Use Planning Committee.



Figure 7 L-R Fmr. NN President Ben Shelly, Fmr. NN Speaker Lawrence T. Morgan and Fmr. NM Governor Bill Richardson. (Photo courtesy of Navajo-Hopi Observer)



3.5.3 Pinedale Community Naat'aaniis Kai (Nelson Zuni's paternal grandfather)

Jake Segundo, Hástiin Táchiinii (Tom Morgan's maternal grandfather)

Sam Gray, Hástiin Daghaii

Hástiin Iłnááshjiní

Sam Silversmith (Johnny R. Thompson's grandfather)

Charley Willie

Hastíín Tsoii (Bennie Y. Begay's father)

Brown Begay Sr.

Lee Smith, Hástiin Smith

Jeff King, Haské Yił ííyáh

Tom Silversmith, Chapter President 1947

Askii Martin, Chapter President

Ben Thompson, Chapter President

James Martin, Chapter President

Charley Brown (Hastiín líí ligai), Chapter Vice-President

Johnson Beocitty, Chapter Vice-President

Frank White, Chapter Vice-President

John Lee, Chapter Secretary/Treasurer

John Gruber, Chapter Secretary/Treasurer

3.5.4 Chapter President Billie Norton 1955-1959

David Mason 1959-1983

Raphael Martin 1983-1987, 1992-2000, 2004-2008, 2016-current

Lawrence T. Morgan 1987-1992

Jesse Kirwin 2000-2004

Anslem Morgan 2008-2012

Willie Norton 2012-2016



Figure 8 The late Sam Silversmith B: 1869 D: 1964 (Phato: Gallup Independent)



Figure 9 The late Jeff King B: 1851?1865 D: 1964



Figure 10 L-R The late Howard Gorman, the late Keith Begay, the late Scott Preston, the late Billie Norton. Photo taken at dedication of new Chapter house on April 16, 1960 (Photo: Gallup Independent 04/18/1960)



3.5.5 Chapter Vice-President Frank Willie 1955-1963, 1971-1975

Roberta Thompson 1963-1971

Bennie Y. Begay 1971-1987

Nelson Zuni 1987-1992, 1996-2000

Lewis B. Yazzie 1992-1996

Larry Miller 2000-2004

Anslem Morgan 2004-2008

Dorothy Harjo 2008-2012

Lawrence T. Morgan 2012-2014

Raphael Martin, 2014-2016

Clara Daye, 2016 – present

3.5.6 Chapter Secretary/Treasurer Lee Smith 1955-1956

Keith Begay 1956-1971

Ford Y. Begay 1971-1980

Arlinda Keyanna 1980-1983

Lawrence T. Morgan 1983-1987

Betty Johnson 1987-1992

Anslem Morgan 1992-2000

Gladys Brodie 2000-2004

Sarah Jackson 2004-2016

Dorothy Harjo 2016 – present



3.6 COMMUNITY EDUCATION & PARTICIPATION PLAN

3.6.1 Introduction:

The purpose of the Community Education & Participation Plan is to inform, educate and involve community members in all aspect of land use planning process and public input in all forgoing matters relevant to local governance

3.6.2 Executive Summary:

The Pinedale Community Based Land Use Planning Committee (CLUPC) was created by the Pinedale Chapter. CLUPC composes of five (5) members selected by the community members' through an approved resolution. CLUPC will inform the community through an approved Community Participation Plan about community land use planning by disseminating flyers & road signs, direct communication, public hearing, newsletter, media (radio & newspaper) report and social media.

3.6.3 Conducting a Community Hearing Process:

Pinedale CLUPC will be hosting continuance public hearing about land use planning. CLUPC will provide Community Participation process:

3.6.3.1 Community Awareness:

Objective	Assignment	Deadline	Completed
Draft & finalized Media notice	CLUPC - President	10 business days	
		before hearing	
Dissemination of notice: Media &	Chapter Administration	10 business days	
Social media; flyers & road sign		before hearing	

3.6.3.2 Community Education:

Objective	Assignment	Deadline	Completed
Thoroughly review plan:	CLUPC members	End of hearing	
Pinedale community members,			
other public resources/entities,			

3.6.3.3 Community Input:

Objective	Assignment	Deadline	Completed
Record public feedback	CLUPC – Secretary	After hearing	
Provide comment forms for	Chapter	After hearing	
recommendations of plan	Administration		

3.6.4 Community Newsletter

Pinedale CLUPC will plan, develop and implement a local community newsletter relevant to planning, land, chapter news and information to the community. The community newsletter will be provided at least twice a month and be distributed locally in Pinedale, Churchrock and Mariano Lake communities for public awareness. CLUPC will also send out newsletter to community members through mailing address as provided during community survey:



3.6.4.1 Community Awareness:

Objective	Assignment	Deadline	Completed
Create newsletter for community	CLUPC,	Second and fourth	
	Administration	Friday of each	
		month	

3.6.4.2 Community Education:

Objective	Assignment	Deadline	Completed
Provide administrative insight on	Administration	2 nd & 4 th Friday of	
projects, plans and updates		each month	
Provide committee update on all	CLUPC	2 nd & 4 th Friday of	
community land use planning		each month	
initiatives monthly			

3.6.4.3 Community Input:

Objective	Assignment	Deadline	Completed
Develop feedback form and attach	CLUPC/Administration	On-going	
to newsletter			
Share ideas/opinions/input during	CLUPC, Admin,	On-going	
CLUPC/Chapter meetings	Chapter officials		

3.6.5 Recording process

Pinedale CLUPC will follow the Chapter's Five Management System – Records Manual. All records will be filed with the Chapter Community Services Coordinator and will become public document.



3.6.6 Public Meetings held:

Pinedale Chapter Pinedale Chapter Plan of Operation, Burial sites, land purchase (Foutz), Worksession update Worksession January 25-26, 2018 NMSU – Grants, NM CLUPC manual. Created Gantt chart for timeline of activities Regular CLUPC Meeting Pinedale Chapter Proposals for Section 16/21, Rural addressing Proposals for Section 16/21, Rural addres	Meeting type	Date/Time/Location	Purpose
Foutz , Worksession update Ti Worksession January 25-26, 2018 Worksession: Plan and create outline for new CLUPC manual. Created Gantt chart for timeline of activities Regular CLUPC Meeting February 6, 2018 at 9:00 a.m. Pinedale Chapter Plan/Open Space. 16/23, Thoroughfare Plan/Open Space. Community Assessment and budget: Approval: Map Sec. 16/23, Thoroughfare Plan/Open Space. Community facilities Plan Regular CLUPC Meeting March 6, 2018 9:00 a.m. Regular CLUPC meeting: Community Assessment update, District Service Plan Pinedale Chapter Proposals for Section 16/21, Rural addressing Proposals for Section 16/21, Rural addressing Worksession: GIS review, Draft 1 compiling & map creation for Land Use plan. Regular CLUPC meeting: Proposals for Section 16/21, Rural addressing Worksession: GIS review Draft 1 compiling & map creation for Land Use plan. Regular CLUPC meeting: Review/approve Mission Statement, Vision, and Public Education & Participation Plan. Thoroughfare Plan Regular CLUPC meeting: Review/approve Mission Statement, Vision, and Public Education & Participation Plan. Thoroughfare Plan Public Hearing June 18, 2018 1:00 a.m. Regular CLUPC meeting: Review/approve Mission Statement, Vision, and Public Education & Participation Plan. Thoroughfare Plan CLUPC conducted public hearing on Community Land Use Manual. Public input from members of Pinedale Chapter Pinedale Chapter CLUPC conducted public hearing updates & planning, finalize agenda for hearing Public Hearing #2 August 17, 2018 End of 60 comment period and final CLUPC Hearing on manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public Hearing on Manual Public H	Regular CLUPC Meeting		Regular CLUPC meeting:
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begin CLUPC manual certification.	Special CLUPC meeting	September 25, 2018	
			begin CLUPC manual certification.



3.7 COMMUNITY DEMOGRAPHICS

3.7.1 Community Survey

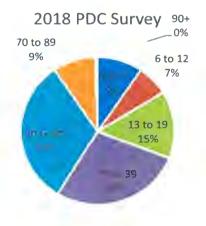
The Pinedale Chapter Administration in collaboration with the Community Based Land Use Planning Committee and Officials agreed to conduct a survey on the community, grazing and rural address. During one of its worksession, the group discussed creating a survey and hiring local community members to conduct the surveys throughout the community. The survey reflects similar data from the 2010 U.S. Census:

There was a total of 309 household that have been surveyed, compared to 293 household that were surveyed by the 2010 U.S. Census.

3.7.2 Population

According to the Survey responses there was a total of 1061 community members. The 2010 US Census has a total of 1,109 community members.

2018 PINEDALE CHAPTER SURVEY			2010 US CENSUS DATA			Change
Household age	Total	Percent	Household age	Total	Percent	10 to 18
0 to 5	101	9.53%	0 to 5	100	9.01%	0.52
6 to 12	71	6.68%	6 to 12	166	14.97%	-8.29
13 to 19	157	14.79%	13 to 19	199	17.94%	-3.15
20 to 39	294	27.71%	20 to 39	260	23.45%	4.26
40 to 69	338	31.87%	40 to 69	328	29.58%	2.29
70 to 89	95	8.98%	70 to 89	51	4.60%	4.38
90 +	5	0.44%	90 +	5	0.45%	-0.01
TOTAL	1061		TOTAL	1,109		0.00







Our population demographics show that we are getting older, a steep climb in age ratio from 2010 to 2018. Age 20 to 39 and Age 70 to 89 shows increase of more than 4%. The average age is 22 years old for the 2018 PDC Survey vs. 24.08 for the 2010 US Census

3.7.3 Population by Gender

2018 PDC Survey		2010 US Census			
Gender	Total	%	Gender	Total	%
Female	539	50.80	Female	549	49.50
Male	522	49.20	Male	560	50.50
Total	1061	100%	Total	1109	100%



3.7.4 Community Clans

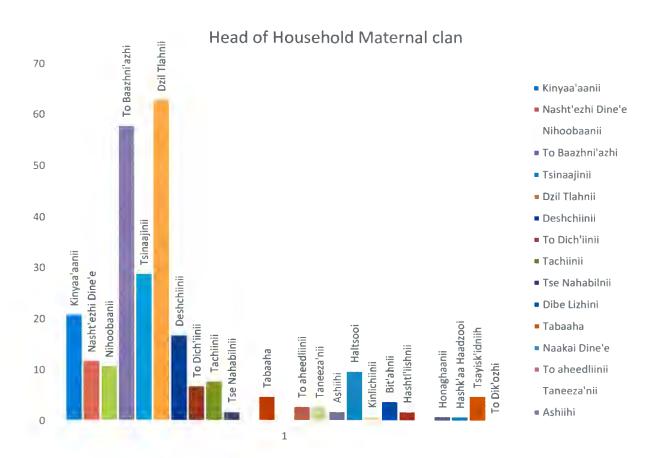
3.7.4.1 Maternal Clan

Community head of household were asked what their maternal and paternal clans were: According to the 2018 PDC Survey, the top five Diné clans are: Dził tł'ahnii (Mountain Cove clan), Tó Baazhni'ázhi (Two who came to water clan), Tsináájiníí (Black streak wood clan), Kinyaa'áánii (Towering House clan), and Deshchííníí (Start of the Red Streak clan).

The survey found that the five top clans are dominated in certain areas of Pinedale community. The Mountain Cove clan are well dominated in Second Canyon area, the Two Who Came to Water clan are dominate around Pinedale Chapter, Rainbow Canyon, Tse Nizhoni and Water Falls area; the Black streak wood clan is dominated in western Pinedale area and Timber Ridge area; the Towering House clan are dominates at Falling Maple Canyon area.

Other clans such as: Zuni Clan, Gray streaked-ends clan and Bitterwater clan also had some local domination. Many Zuni clan members dominated Far western areas of Pinedale, Gray streaked-end clan are dominated in west central Pinedale and west-end of Rainbow Canyon. The Bitter Water clan are well represented in the west central areas of Pinedale. See graph on next page to show clan affiliation for each household member.



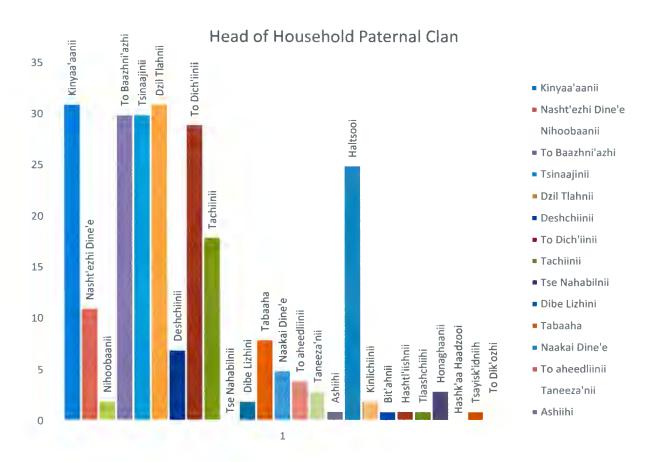


CLAN NAME	TOTAL		
KINYAA'AANII	21	TANEEZA'NII	3
NASHT'EZHI DINE'E	12	ASHIIHI	2
NIHOOBAANII	11	HALTSOOI	10
TO BAAZHNI'AZHI	58	KINLICHIINII	1
TSINAAJINII	29	BIT'AHNII	4
DZIL TLAHNII	63	HASHTL'IISHNII	2
DESHCHIINII	17	TLAASHCHIIHI	0
TO DICH'IINII	7	HONAGHAANII	1
TACHIINII	8	HASHK'AA HAADZOOI	1
TSE NAHABILNII	2	TSAYISK'IDNIIH	5
DIBE LIZHINI		TO DIK'OZHI	0
ТАВААНА	5	DECLINE TO STATE	44
NAAKAI DINE'E			
TO AHEEDLIINII	3	TOTAL ANSWERED	309



3.7.4.2 Paternal Clan

The top five paternal clans of head of household members are: Towering House clan, Mountain Cove clan, Two Who Came to Water clan, Black streaked wood clan and Bitter Water clan. There are many more clans that hold stories on how they came to Pinedale. We see trends such as most Northern Pinedale community members with Mountain Cove clan; whereas western Pinedale is dominated by Black Streaked wood clan and Bitter Water clan.



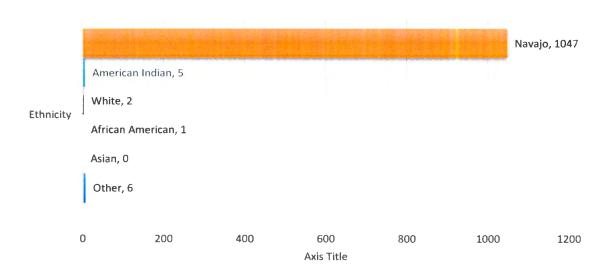
CLAN NAMES	TOTAL				
KINYAA'AANII	31	TSE NAHABILNII	0	BIT'AHNII	1
NASHT'EZHI DINE'E	11	DIBE LIZHINI	2	HASHTL'IISHNII	1
NIHOOBAANII	2	ТАВААНА	8	TLAASHCHIIHI	1
TO BAAZHNI'AZHI	30	NAAKAI DINE'E	5	HONAGHAANII	3
TSINAAJINII	30	TO AHEEDLIINII	4	HASHK'AA HAADZOOI	0
DZIL TLAHNII	31	TANEEZA'NII	3	TSAYISK'IDNIIH	1
DESHCHIINII	7	ASHIIHI	1	TO DIK'OZHI	2
TO DICH'IINII	29	HALTSOOI	25	DECLINE TO STATE	63
TACHIINII	18	KINLICHIINII	2	TOTAL	309



3.7.5 Pinedale Community Ethnicity

According to the survey, the Diné people make up 99.05% of the community. The other 0.95% are other American Indian, White, African American, Asian American and other.

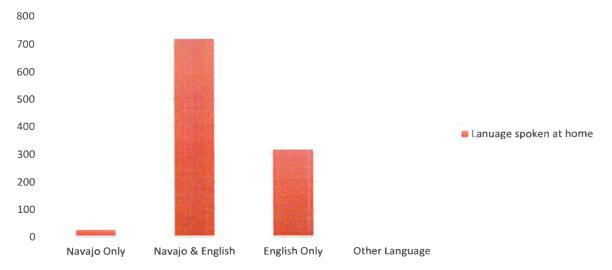




3.7.6 Pinedale's language spoken at home

This survey shows that only 67.77% of the community speak/understand Navajo/English, while 29.78% of the community only speak/understand English. Only 2.36% speak/understand fluent Diné. The 2005 approved Pinedale CLUPC manual shows that 83.9% spoke and understood Navajo/English and only 16.1% spoke/understood only English.

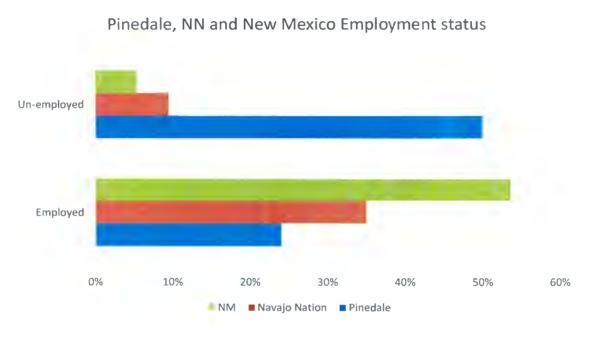






3.7.7 Employment Status

All 309 surveys included employment status of the head of household. According to the survey 154 (50%) responded they are currently not employed, 74 (24%) said they were employed and 24 (8%) said there were self-employed. 24 (11%) are retired, 8 (3%) are other employed, and 15 (5%) decline to answer.



Source: PDC 2018 Survey and NM Dept. of Workforce Solution "Tribal Demographic and Employment Data - Mark Flaherty"

3.7.8 Employment location

According to the PDC 2018 survey those who answered were employed/self-employed 55% stated their employment in the Gallup area (Ft. Wingate, Churchrock, Mentmore, and Gamerco), 29% stated they work in Pinedale area (Pinedale, Mariano Lake and Smith Lake), 12% work in other NM areas such as Albuquerque, Grants, Santa Fe and Farmington. 3% work in other States throughout the United States, while 1% worked in Arizona (Window Rock, Phoenix and Flagstaff).

This survey only requested the Head of Household's employment status and location. It does not reflect the entire household.

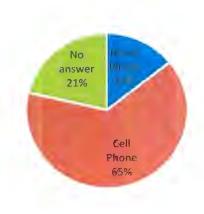




3.7.9 Pinedale community Telecommunication

The community members were asked what type of tele-communication service they used at their home. Nearly 64% utilize a cell phone. Those with cell phone were asked what type of cell service they had: 37% have 4G service, 29% have 3G service, 20% have 4GLTE service and 15% have 2G service.

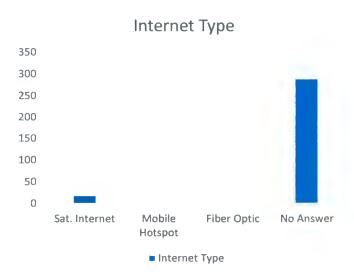
Type of communication utilized:	Total	(%)
Home Phone	44	14%
Cell Phone	199	64%
No answer	66	21%



3.7.10 Pinedale community internet service The Pinedale community has little or no type of high speed internet throughout the community. This survey shows that only a few have satellite internet from Hughes Net.

The Pinedale Chapter also utilizes satellite internet and for this reason does not provide publice Internet to community members.

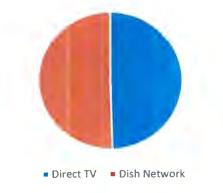
Type of internet services:	Total	(%)
Sat. Internet	19	6%
Mobile Hotspot	1	0%
Fiber Optic	0	0%
No Answer	289	94%



3.7.11 Pinedale Satellite T.V. providers
Of the 309 survey taken, 127 household answered that
they receive satellite T.V. service from either Dish
Network or Direct TV.

Type of Satellite TV provider	Total	(%)
Dish Network	63	20%
Direct TV	64	21%
No answer	182	59%

Type of Satellite TV provider



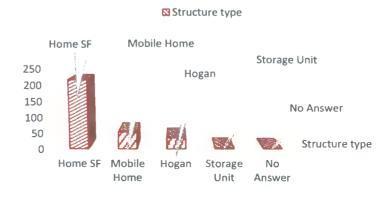


3.7.12 Pinedale community structure type According to the 2010 US Census, there were 370 housing units in Pinedale community.

The 2018 Pinedale Chapter survey concluded there were 400 structures throughout the community. There was only one building that was being constructed at time of survey.

Home SF	216	70%
Mobile Home	54	17%
Hogan	36	12%
Storage Unit	2	1%
No answer	1	0%
TOTAL	309	100%

2018 PDC SURVEY STRUCTURE TYPE



3.7.13 Existing Housing Issue

Of the 309 structures conducted, 254 (80%) has electric and 55 (18%) decline to answer or had no electric in their home. Nearly 238 (78%) have indoor plumbing to their home and 71 (23%) decline to answer or had no running water into their home. 205 (66%) homes have a septic system in their home and 104 (34%) do not have no sort of septic tank in their home.

3.7.14 Heating Source

According to the survey completed, nearly 283 (62%) of structures use woods for heating source to their home. 83 (20%) utilize coal, 40 (9%) use LP propane, 21 (5%) use wood pellet and 18 (4%) use diesel and other source of heat for their home.

Wood	260	62%
Coal	83	20%
LP Propane	40	9%
Wood Pellet	21	5%
Other	18	4%



4 NATURAL RESOURCE INVENTORY

The purpose of a natural resource inventory (NRI) is to provide building blocks for comprehensive landuse and future conservation planning. It also allows natural resource information to be included in local planning and future zoning.

This NRI will include maps and data on geology and soils, water resources, habitats and wildlife, climate, and cultural resources.

4.1 GEOLOGY AND SOILS

4.1.1 Geology formation

The geology formation of the Pinedale community are as following:

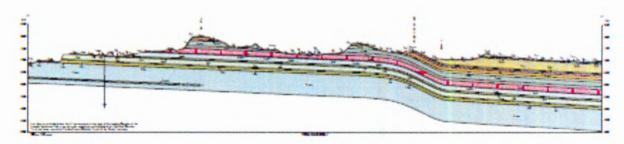


Figure 11 Geology formation of the Pinedale Quadrangle

Pinedale Quadrangle

Quaternary (Holocene, Pleistocene) Qa1, Qa2, Qa3, Qoa, Qe, Qoe, Qp, af, Qf, Qc, Qt, Ql

Cretaceous (Upper Cretaceous) Kga, Km, Kmj, Kdt, Kmw, Kd

Jurassic (Upper Jurassic, Middle Jurassic) Jmbs, Jmb, Jmw, Jmrs, Jmr, Jcsu, Jcsm, Jcsi, Jwb, Jwt, Jeu, Jer, Jei

Triassic (Upper Triassic) TR co, TR cpc, TR cpu, TR cpt

Oak Spring Quadrangle

Quaternary (Holocene, Holocene and Pleistocene) Qar, Qal, Qoa, Ql, Qe, Qc, Qt

Cretaceous (Upper Cretaceous) Kmfc, Kpl, Kms, Kplh, Kolh, Kcg, Kcda, Kmm, Kcdi, Kgt, Kg, Kgb, Km, Kga Jurassic (Upper Jurassic) Jmb, Jmw, Jss,, Jmr

4.1.2 Soils

Soils are the unconsolidated weathered material that covers the surface of the earth. Soil is used to support building foundations, grow food, filter groundwater recharge, and sustain vegetation and wildlife habtat. Understanding the different type of soil properties and limitation will assist in future land use planning, conservation and preserving natural resources and habitats.



The Chapter Administration conducted a soil analysis of the entire Pinedale community through an Area of Interest (AOI) and generated a study report from the USDA website.

According to the Soil Resource report compiled by UDSA on the type of soil within the Pinedale community there are 26 different soil types throughout AOI. The table below lists the type of soil total, total acreage of soil and percent. There is also a detail map of each location of soil.

The climate within the AOI is: Mean annual precipitation of 10-16 inch per year, mean annual air temperature range from 46F to 49F degrees. Only about 643.5 acres 1.6% of land is suitable for farming of 39,932.6 100% reported.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
230	Sparank-San Mateo-Zia complex, 0 to 3 percent	2,483.9	6.2%
	slopes		
241	Mentmore loam, 1 to 8 percent slopes	4,505.7	11.3%
242	Gish-Mentmore complex, 1 to 8 percent slopes	1,810.1	4.5%
244	Buckle fine sandy loam, 1 to 8 percent slopes	1,579.7	4.0%
245	Buckle-Gapmesa-Barboncito complex, 1 to 6	584.1	1.5%
	percent slopes		
258	Eagleye-Atchee-Rock outcrop complex, 2 to 35%	2.5	0.0%
	percent slopes		
265	Uranium mined lands	512.3	1.3%
290	Rock outcrop-Westmion-Skyvillage complex, 30 to	3,019.3	7.6%
	80 percent slopes		
291	Rock outcrop-Eagleye-Atchee complex, 35 to 70	2,439.6	6.1%
	percent slopes		
305	Celavar-Atarque complex, 1 to 8 percent slopes	1,385.7	3.5%
310	Parkelei sandy loam 1 to 8 percent slopes	111.3	0.3%
315	Flugle-Fragua complex, 1 to 10 percent slopes	1,712.0	4.3%
317	Highdye-Evpark-Bryway complex, 2 to 20 percent	0.0	0.0%
	slopes		
320	Parkelei-Fraguni complex, 1 to 8 percent slopes	461.8	1.2%
332	Evpark-Arabrab complex, 2-6 percent slopes	1,763.5	4.4%
338	Zyme-Lockerby association, 5 to 35 percent slopes	3,252.2	8.1%
350	Toldohn-Vessila-Rock outcrop 8 to 35 percent	7,995.9	20.0%
	slopes		
351	Rock outcrop-Vessilla complex, 35 to 70 percent	590.7	1.5%
	slopes		,
352	Zia sandy loam, 1 to 5 percent slopes	532.2	1.3%
355	Rizno-Tekapo-Rock outcrop complex, 2 to 45	32.2	0.1%
	percent slopes		
360	Hosta-Concho association, 0 to 5 percent slopes	245.4	0.6%
365	Vesilla-Rock outcrop complex, 2 to 15 percent	1,893.7	4.7%
	slopes		
375	Todest-Shadilto complex, 2 to 8 percent slopes	2,447.5	6.1%
380	Berryhill-Casamero clays, 2 to 10 percent complex	97.8	0.2%



404	Rock outcrop-Techado-Stozuni complex, 5 to 60 percent complex	312.1	0.8%
555	Parkelei-Evpark fine sandy loams, 2 to 8 percent	161.6	0.4%
	slopes		
Totals for Area of	Interest	39,932.6	100.0%

4.2 WATER RESOURCES

4.2.1 Groundwater and Aquifers

Water is vital resource for drinking water and an element of habitat suitability for a wide array of aquatic organism. In addition to these use, the movement of water through atmosphere, streams, lakes, and

aquifers carries necessary materials such as dissolved oxygen and nutrients and harmful pollutants. The availability of water as well as quantity affects the natural factors such as soil, vegetation, and geology formations. Disturbance by human activities affect the overall state of water resources, by properly planning for future land use it is important to remember the vital resource. Water resource activities must be balance between usage and natural functioning aquatic ecosystems.

According to the USGS, Less than two and one half (2.5%) percent of the total water on Earth is freshwater, and other saline water make up 0.9% and the ocean making up the vast majority of 96.5%. Of the 2.5% of freshwater less than 1.2% is surface/other freshwater. The rest

98.8% is inaccessible for use. The 1.2% consists of 69% ground ice and permafrost 20.9% lakes and the rest from the atmosphere, living things, rivers, swaps, marshes and soil moisture.

Water continues to be recycled through "the water cycle" see figure 12. Water evaporates into the atmosphere, the water vapor condenses into clouds and falls back

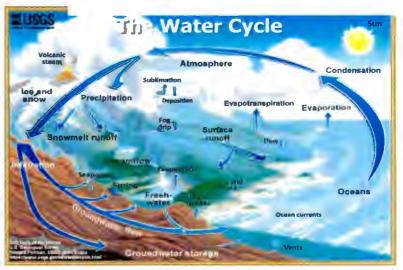
Figure 13 "The Water Cycle" Photo from USGS

Surface/other 1.2% Atmosphere Freshwater 2.5% O DES freshwater Rivers 0.49% Ground-Swamps, water 0.9% water marshes 20.99 30.1% 2.6% Soil moisture 3.8% Ground **Oceans** 96.5% ice and **Glaciers** permafrost 69.0% 68.79 Total global Freshwater Surface water and other freshwater

Where is Earth's Water?

Source: Igor Shiklomanov's chapter "World fresh water resources" in Peter H. Gleick (editor), 1993, Water in Crisis: A Guide to the World's Fresh Water Resources. NOTE: Numbers are rounded, so percent summations may not add to 100.

Figure 12Where is Earth's Water? photo by USGS



to earth as precipitation in the form of rain, snow, sleet, and hail.

4.2.1.1 San Juan Basin

The San Juan Basin was formed during the Laramide orogeny (Late Cretaceous-early Tertiary age) at the eastern edge of the Colorado Plateau. The basin is located in the southwest corner of Colorado, northwest New Mexico and little areas of northeast Arizona.

4.2.1.2 Aquifer

4.2.1.2.1 Gallup Sandstone

The Gallup Sandstone¹ is located within the Gallup aquifer. It is Late Cretaceous age consisting of light-gray, buff, and pale-red very find to very coarse grain sandstone and thin to thick beds of shale, thickness ranges from 180 to 350 feet.

According to the report the Gallup Sandstone, the principal aquifer yields 260 gpm of water to wells in the area. The Gallup Sandstone is recharged from precipitations and run-offs and recharging a small levels due to heavy usage.

There is one well site within the Gallup sandstone – Gallup aquifer that provides domestic water use to the communities within Pinedale Chapter. Well site # 353816108170101 16.N14W.11.2223 located in Mariano Lake, NM. The well depth is 1375 feet, the hole depth is 1400 feet it is 7,365.00 feet above NGVD29.

Well site# 353816108170101 16N.14W.11.2223 Water level, feet below land surface

1977 to 2018

700
600
500
400
300
200
100
0
1977 1982 1983 1984 1985 1986 1987 1988 1989 1990 2007 2008 2009 2010 2011 2012 2013 3014 2016 2017 2018

Figure 14 Source: USGS - National Water Information System: Web Interface. Ground Water levels for the nation. https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=353816108170101&agency_cd=USGS&format=html

¹ Availability of Ground Water in the Gallup area, New Mexico By S. W. West 1961



4.2.2 Surface Water

4.2.2.1 Run-offs & Stream directions

All run-offs within the Pinedale community move towards the Rio Puerco. The stream then heads west and southwest down towards the community of Springstead and flows into the Little Colorado River.

4.2.2.2 Lakes

There are no active lakes within the Pinedale community. However there is one in Mariano Lake, since the monsoon pattern began in May 2018, the lake has refilled and is currently at 20% capacity.

4.2.2.3 Earthen Dams

A recent field report conducted by the Chapter Administration concluded there are 24 Earthen Dams that are active. Earthen dams are vital to grazing permitees, due to current drought conditions plans are being drafted to repair and upgrade the many active dams before the first major summer monsoon.

Earthen dams provide water resources for livestock. According to the Navajo Nation Department of Water Resource there are over 1,500 Earthen Stock ponds throughout the reservation. Many of the dams currently have yet to receive adequate repairs and renovations due to lack of Chapter support and funding.

TOTAL EARTHEN D PINEDALE	
District Name	Total Earthen Dams
Ram Mesa District	6
West Second Canyon	3
District	
Fallen Maple Canyon	4
District	
Pinedale District	4
Rio Puerco District	7
Total	24

4.2.2.4 Windmills

A 2015 field assessment completed by CLUPC indicated there are 6 windmills located at the following locations: Waterfall road, 2nd Canyon Road near Zunie residence, Midget Mesa Road, Lobo Valley Road and Chestnut Canyon Road. There is also two windmill that are no longer operational they are: Uphill Road and Old Churchrock mine road.

4.2.2.5 Old pump wells

There were previous operational pump wells that are no longer operate, they are: N-1149 by First Canyon Road, North of Nellie Thompson's resident, Keith Begay (drill well) and South of Pinedale Chapter – 7 wells removed.



5 OPEN SPACE PLAN

The open space & recreation concept identities areas that should be preserved for the benefit of community use and enjoyment. Areas that are culturally significant, contain significant wildlife and vegetation area, along with drainage corridors, benefit the entire community.

The proposed open space plan is an initial start for the Pinedale planning area. As the population demographics and numbers change, the committee needs to revisit and revise the plan in accordance to future community needs and growth.

5.1 EXECUTIVE SUMMARY

The Pinedale Chapter Administration, Officials and its committees seek to identify cultural, historical, and natural resources which should be considered for protection, preservation and restoration over the next five years. This plan also seeks to identify recreation needs and Pinedale Chapter's role in providing facilities to meet future needs. There are two main goals that will provide a guiding principle for an Open Space Plan.



main goals that will provide a guiding principle for an Open Space Plan.

Figure 15 Tse Nizhoni (Pretty Rock) a rack formation located 2 miles east of the Chapter. This significant rock formation has many traditional stories and served as a defensive barricade to many Navaja families at the beginning of discovery of the new world.

5.2 INTRODUCTION

The Pinedale Chapter has a total of 40,949.96 according to its 2005 approved Land Use manual. Pinedale lands consists of: Navajo Nation Tribal Trust, New Mexico State Land, Bureau of Land Management, Navajo Tribal Fee and Private Land. With this diverse set of land, most of Eastern Navajo Agency chapters are within the "checkerboard lands"; this type of land make-up makes it difficult to obtain land withdrawals and right-of-way in a reasonable time.

5.3 PLAN PURPOSE

The purpose of this plan is to identify any cultural, historical, and natural resources throughout the community and preserve those resources through an open space plan and policy. This plan will visualize future open space usage and create a Parks & Recreation department under the chapter administration.

5.4 VISION STATEMENT & GOALS

Our visions and goals are relevant to our principles of preserving and protecting our environment.

5.4.1 Vision Statement

Connecting our people to mother earth and father sky through land resources of Pinedale Chapter



5.4.2 Goals

- 1. Research, acquire and develop park land and recreation facilities to meet the demand of the Pinedale Chapter residents without adversely affecting current natural resources.
- 2. Preserve large tracts of natural, agricultural and traditional rural landscapes that will provide space for resource protection and recreation benefits.

5.5 CLASSIFICATION SYSTEM

The Pinedale Chapter hereby creates the following open space classification system into three categories:

- Recreational area
- Natural Resource Areas
- Historical/Cultural Sites

5.6 EXISTING LAND & FACILITY INVENTORY

5.6.1 Recreational Area

A recreation area is created to benefit the community through healthy and life initiatives. There are currently no identified location within the Pinedale community. However there is the Red Rock Park, located 10 miles southeast of Pinedale Chapter house in Churchrock, New Mexico.

5.6.1.1 Red Rock Park

Excerpt from City of Gallup's website on the Red Rock Park:

Red Rock Park is the crown jewel of Gallup's parks and recreation system. Cradled by spectacular red cliffs formed over 200 million years ago in the Age of the Dinosaurs, the park combines a glimpse into past civilizations with modern amenities to serve the needs of contemporary residents and guests.

Facilities

The park offers comfortable campground facilities with electrical and water hookups, picnic areas, restrooms and showers. There is also a camp store and post office on-site. Call (505) 722-3839 for information and reservations.

The 5,000 seat Red Rock Arena is well-suited for outdoor performances including rodeos and other activities. The lighted arena can be configured for roughstock and timed-event performances and there are approximately 600 permanent horse stalls. The convention center has a theatre, meeting rooms and exhibit space.

Activities

Red Rock Park is proud to present a full slate of sports, entertainment and cultural events. Rodeo events feature prominently throughout the summer months. The annual Lions Club Rodeo is ranked with the best in the state of New Mexico. For the past several years, the nation's best youth cowboys and cowgirls have competed in the Red Rock arena at the National Junior High School Finals Rodeo. The USTRC team roping series comes to Gallup in July, as well as perhaps the most anticipated event when bull riding stars gather to "Rock the Rocks" at the Wild Thing Bullriding Championship.



Every year for nearly a century, Gallup has been the site of the world famous Inter-Tribal Indian Ceremonial celebrated in August. Native American tribe members attired in colorful dress perform traditional dances and music, display jewelry and crafts, and tempt visitors with authentic cuisine. The Ceremonial Rodeo filled with Native performers is also a highlight each year. The modern ceremonial has added new activities such as a wine-tasting and ceremonial half-marathon and 5K run.

The Red Rock Balloon Festival takes flight the first weekend of December each year. As one of the world's largest balloon rallies, you can expect to see over 100 balloons soar above the stunning red rock landscape.

5.6.2 Natural Resource Areas

A natural resource area is an area of interest set aside for protection of valuable natural environment. This includes habitat protection and open space preservation. Recreation within these areas should be limited due to the preservation of its current state.

5.6.2.1 Overview

Lands protected within these areas should be large, contiguous blocks that may include a mixture of agricultural, steep topography, and prairie. Natural Resource Area will have no land use or zoning use to be implemented

5.6.2.2 Inventory

There are no inventory for Natural Resources Area. Pinedale CLUPC will conduct public hearings and designate some locations

5.6.3 Historical/Cultural Sites

A historical/cultural site consists of land that is specifically set aside for preservation, restoration, or reconstruction of features significant to the local history and Dine cultural heritage. This will include: buildings, archaeological sites and ceremonial grounds.

5.6.3.1 Overview

Pinedale Chapter has several historical and cultural sites throughout the community. Some significant historical sites include: Old Pinedale Chapter House, and old Pinedale Day School site. There are also countless Dine traditional sites that hosted previous ceremonies and continuous ceremonies. Those sites are reflected on the map as listed in the next page

5.7 Proposed Community Park

The Committee in collaboration with the Administration and Officials are planning to create the first community park, Sounding Well Park. This park will be located in Executive Order lands just south of the Pinedale Chapter house.

Funds from the Unhealthy food tax and Capital Budget funds will be used to invest in the park and future planning efforts to improve community land use planning



Ceremony map



5.7.1 Current Land Status

Pinedale Chapter is located in the eastern portion of the Navajo Nation in the State of New Mexico. Many of the local chapters within New Mexico face land owners a majority of time due to its checkerboard status. Lands within Pinedale consist of Navajo Tribal Trust Land, Bureau of Land Management, and State of New Mexico, Individual Indian Land Allotment owners, private land and fee land.

See map in next page on current land status for Pinedale Chapter. The map provides insight in the difficult position Pinedale Chapter faces in future land use planning and development. One of the Committee's goal is to acquire non-Navajo Tribal Trust Lands for Pinedale to ease future planning of land development.



Rural Major Collector Chapter boundary Other Land status Legend the GIS Ber Pinedale Chapter boundary Esri, HERE, Garmin, © OpenStreetMap abernade Ro

Pinedale Chapter **Current Land Status**



Road Classification

- Rural Minor Arterial
- Rural Local Road
- Propsed Rural Road

Pinedale Chapter Boundary

Pinedale Land Status

Land Status

- Navajo Tribal Trust Land
 - Indian Allotment
 - State Land
- Private land



5.8 NEW MEXICO SPECIAL STATUS SPECIES — ESA LISTED (TYPE 1) — AUGUST 2016 Northwest New Mexico habitat (Pinedale, NM included)

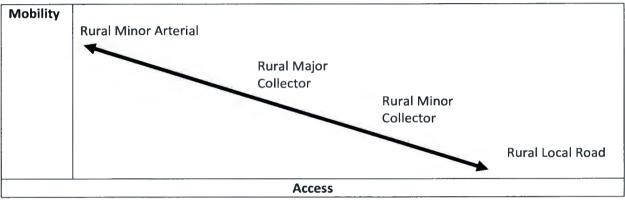
AMPHIBIANS			
Pethodon neomexicanus	Jemez Mountain Salamander	E + CH	Peripheral
BIRDS			
Coccyzus americanus occidentalis	Western yellow-billed cuckoo (Western DPS)	T + CH	Verified
Empidonax traillii extimus	Southwestern willow flycatcher	E + CH	Verified
Strix occidentalis lucida	Mexican spotted owl	T + CH	Peripheral
Sterna antillarum	Least tern (interior population)	E	Verified
FISH			
Xyrauchen taxanus	Razorback sucker	E + CH	Hypothethical
Catostomus discobolus yarrow	Zuni bluehead sucker	E + CH	Peripheral
Ptychocheilus Lucius	Colorado Pikeminnow	E + CH	Hypothethical
	T = Threaten		
	E = Endangered		
	CH – Critical Habitat		
	P = Proposed		
	ENE = Experimental, Non-essential		

6 THOROUGHFARE PLAN

The Pinedale Chapter Thoroughfare Plan will be used to develop current and future roads for the community. This current plan will adopt the Federal Highway Administration and Bureau of Indian Affair Division of Transportation standards.

6.1 THOROUGHFARE MAP

The Thoroughfare Map categorizes and identifies new and proposed roads in terms of a combination of three consideration: 1) the <u>functional characteristics</u> that they are intended to provide. 2) The <u>dominant</u> adjacent land use, and 3) the <u>develop character of the areas</u> they pass through



The functional classification of this Thoroughfare Plan includes: Rural Minor Arterial, Rural Major Collector, Rural Minor Collector and Rural Local Road depending on access vs. mobility access.

However, the use of the functions, (access and mobility) as the only element that distinguishes one road from another disregards the broader aspect that roads also affect and are affected by the use of adjacent properties.

Therefore, this Thoroughfare Plan provides additional considerations that relate the road design criteria with the development characteristics and predominate land uses of the areas being served.

Thus, the Pinedale Chapter Thoroughfare Plan categorizes roadways by traditional functional classifications. It further distinguishes according to their character (community and rural area) and their prominent land use characteristics (residential, commercial, or industrial).

A sample **Design Elements Matrix** is included in the Appendix as a representation of these concepts included in the plan. The matrix is a sample of road specification; every transportation entity has a set plan in place. CLUPC will work with the Navajo Nation Division of Transportation to established set policies for Pinedale roads.

6.1.1 Interpretation of new road connections

The Thoroughfare Plan map shows some recommended road connections to be made at undefined point in the future. Additionally the chapter submits its annual New Mexico ICIP and Navajo Nation ICIP both in appendix, which also includes road projects. In no instance shall the Thoroughfare Plan Map be



Thoroughfare Map



interpreted as showing exact alignments for new roads; they are instead intended to represent conceptual connections from one location to another.

The new proposed roads are recommended base on future needs, traffic demand, development, and financial feasibility. This plan should not be used as a legal binding document of set plans to build road, but as a supporting documentation for future development of residential, commercial, and industrial.

Further, in no way should any future connection shown on the Thoroughfare Plan Map be interpreted as establishing an easement of right-of-way for that connection or in any way claiming property for public use.

6.2 Consideration #1 Functional, Classifications

The classification system of the Pinedale Thoroughfare Plan includes: Rural Minor Arterial, Rural Major Collector, Rural Minor Collector and Rural Local Road depending on access vs. mobility. These functional classification definitions are adopted from the Federal Highway Administration.

6.2.1 Rural Minor Arterial

In rural settings, Minor Arterials should be identified and spaced at intervals consistent with population density, so that all developed areas are within a reasonable distance of a high level Arterial. Additionally, Minor Arterials in rural areas are typically designed to provide relatively high overall travel speeds, with minimum interference to through movement. Normally, the speed should not exceed 1 mile in fully developed areas.

Rural Characteristics for Minor Arterial

- Link cities and larger towns (and other major destinations such as resorts capable of attracting travel over long distances) and form an integrated network providing interstate and inter-county service
- Be spaced at intervals, consistent with population density, so that all developed areas within the State are within a reasonable distances of an Arterial roadway
- Provide service to corridors with trip lengths and travel density greater than those served by Rural Collectors and Local Roads and with relatively high travel speeds and minimum interference to through movement

6.2.2 Rural Major Collector

Collectors serve a critical role in the roadway network by gathering traffic from Local Roads and funneling them to the Arterial network. Within the context of functional classification, Collectors are broken down into two categories: Major Collectors and Minor Collectors. Until recently, this division was considered only in the rural environment. Currently, all Collectors, regardless of whether they are within a rural area or an urban area, may be sub-stratified into *major* and *minor* categories. The determination of whether a given Collector is a Major or a Minor Collector is frequently one of the biggest challenges in functionally classifying a roadway network.



In the rural environment, Collectors generally serve primarily intra-county travel (rather than statewide) and constitute those routes on which (independent of traffic volume) predominant travel distances are shorter than on Arterial routes. Consequently, more moderate speeds may be posted.

The distinctions between Major Collectors and Minor Collectors are often subtle. Generally, Major Collector routes are longer in length; have lower connecting driveway densities; have higher speed limits; are spaced at greater intervals; have higher annual average traffic volumes; and may have more travel lanes than their Minor Collector counterparts. Careful consideration should be given to these factors when assigning a Major or Minor Collector designation. In rural areas, AADT and spacing may be the most significant designation factors. Since Major Collectors offer more mobility and Minor Collectors offer more access, it is beneficial to reexamine these two fundamental concepts of functional classification. Overall, the total mileage of Major Collectors is typically lower than the total mileage of Minor Collectors, while the total Collector mileage is typically one-third of the Local roadway network

Rural Characteristics for Major Collector

- Provide service to any county seat not on an Arterial route, to the larger towns not directly served by the higher systems and to other traffic generators of equivalent intra-county importance such as consolidated schools, shipping points, county parks and important mining and agricultural areas
- Link these places with nearby larger towns and cities or with Arterial routes
- Serve the most important intra-county travel corridors

6.2.3 Local Road

Locally classified roads account for the largest percentage of all roadways in terms of mileage. They are not intended for use in long distance travel, except at the origin or destination end of the trip, due to their provision of direct access to abutting land. Bus routes generally do not run on Local Roads. They are often designed to discourage through traffic. As public roads, they should be accessible for public use throughout the year.

Local Roads are often classified by default. In other words, once all Arterial and Collector roadways have been identified, all remaining roadways are classified as Local Roads

Rural Characteristics for Local Road

- Serve primarily to provide access to adjacent land
- Provide service to travel over short distances as compared to higher classification categories
- Constitute the mileage not classified as part of the Arterial and Collector systems



6.3 LIST OF ROADS

6.3.1 Rural Minor Arterial Road

NM Hwy 566 – Maintained by NM Department of Transportation

6.3.2 Rural Major Collector Road

Navajo Route 11-49 – Maintained by NN Division of Transportation

6.3.3 Rural Local Road

Old Churchrock Mine Road - Maintained by McKinley County

Uphill Road – Maintained by BIA and/or McKinley County

Tabernacle Road - Maintained by Pinedale Chapter (limited access road)

1st Canyon Road – Maintained by Pinedale Chapter (limited access road)

Navajo Route 7054 - Maintained by NN Division of Transportation and/or Pinedale Chapter

Midget Mesa Road – Maintained by Pinedale Chapter (limited access road)

Fallen Maple Road – Maintained by Pinedale Chapter (limited access road)

Sunnyside Ranch Road - Maintained by Pinedale Chapter (limited access road)

Waterfalls Road - Maintained by Pinedale Chapter (limited access road)

Timber Ridge Drive – Maintained by Pinedale Chapter (limited access road)

Tse Nizhoni Road – Maintained by Pinedale Chapter (limited access road)

Assembly Valley Road – Maintained by Pinedale Chapter (limited access road)

Rainbow Trail Road - Maintained by McKinley County

Lobo Valley Road - Maintained by McKinley County

Pinedale Loop – Maintained by Pinedale Chapter

Chestnut Canyon Road - No maintenance (limited access road)

6.3.4 Limited Access road

Roads that are listed "limited access road" means there is no public access to additional roads or connected to other public roads. These roads merely access homes and certain public lands. These roads do not provide immediate access to other roads throughout community or other communities.



7 COMMUNITY FACILITIES PLAN

There is currently a limit and future limit in prospects for current and future facilities within the Pinedale community.

7.1 NAVAIO NATION GOVERNMENT FACILITIES

7.1.1 Current facilities

7.1.1.1 Pinedale Chapter House

The Pinedale Chapter was dedicated on April 18, 1960. Since then there has been countless improvements on the facility including: office space, public restroom facilities and HVAC installations. Total capacity: 200

The meeting room can host up to 200 people and according to the current administration, always open for the community people for use.

7.1.1.2 Pinedale Senior Center

The Pinedale Senior Center building was constructed and dedicated in 2000. Prior to moving to a permanent facility, the Senior Center was located in the Chapter house. Total capacity: 70

Figure 16 Construction of the new Chapter house circa 1960 (Photo: Gallup Independent 4/20/1960)

7.1.1.3 Pinedale Head Start

The new Pinedale Head Start building was dedicated on January 16, 2008 providing two classroom, a dining room, kitchen and public restroom facilities. Total capacity: 50

The old head start building is located next to the Pinedale Chapter on the eastside. It has been used over 30 years and is currently vacant.

7.1.2 Future facilities

7.1.2.1 Pinedale Veteran & Administration Building

The Chapter is currently in the planning stage of constructing a 3000 S.F. Veterans and Administration building. The building



Figure 17 Dedication of the new Pinedale Head Start building. Standing with two Pre-school students are: L-R Anslem Morgan, Speaker Morgan, President Martin, Young Jeff Tom, Charles Long, Bob Sandaval and Olsen Arvisa. (Photo: Navajo-Hopi Observer)

will house the Chapter administration office, a veteran office, large conference room, two small conference room and additional office space for other resources to meet community needs.

Recently, the 23rd Navajo Nation Council and President of the Navajo Nation approved nearly \$100 million dollars in project finances, Pinedale Chapter will be receiving about \$694,000 for construction cost; additionally the State of New Mexico has allocated \$75,000 for pre-planning and \$96,000 from the Navajo Nation CIP fund with Pinedale Chapter matching up to \$25,000. Totaling \$890,000.



7.2 PUBLIC UTILITIES

7.2.1 Electric

7.2.1.1 Current facilities

7.2.1.1.1 Continental Divide Electric Co-op

Current electric facilities are provided by Continental Divide Electric Co-op. Powerline transmission run through-out community with concurrent Right-Of-Way with the Bureau of Indian Affairs.

7.2.1.1.2 PNM

PNM has an 115kV transmission line that runs through the heart of Pinedale. The transmission line had been built in the late 1960's and early 1970's. The main transformer is located in Yatahey, NM and the 115 kV line runs towards Ambrosia, NM and connects to additional lines and transformers.

Since 2016 PNM has been in the planning stage to add a 2nd transformer at the Yatahey site due to mitigate overloads and improve voltage performance according to a 2015 Open Transmission Planning meeting PowerPoint presentation.

7.2.1.2 Future facilities

There are no current or future projects for electric utilities within Pinedale Chapter.

7.2.2 Water

7.2.2.1 Current facilities

7.2.2.1.1 NTUA (Navajo Tribal Utility Authority)

NTUA provides water services to Pinedale community. Water service comes from wells located in Mariano Lake, NM.

7.2.2.2 Future facilities

7.2.2.2.1 Navajo-Gallup Water Supply Project

Excerpt from website:

"The Navajo-Gallup Water Supply Project 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, southwestern portion of the Jicarilla Apache Nation, and the city of Gallup, New Mexico via about 280 miles of pipeline, several pumping plants, and two water treatment plants.

These areas currently rely on a rapidly depleting groundwater supply that is of poor quality and inadequate to meet the current and future demands of more than 43 Navajo chapters, the city of Gallup, and the Teepee Junction area of the Jicarilla Apache Nation. Ground water levels for the city of Gallup have dropped approximately 200 feet over the past 10 years and over 40 percent of Navajo Nation households rely on hauling water to meet their daily needs. Inadequate water supply also impacts the ability of the Jicarilla Apache people to live and work outside the reservation town of Dulce.



The Navajo-Gallup Water Supply Project is designed to provide a long-term sustainable water supply to meet the future population needs of approximately 250,000 people in these communities by the year 2040 through the annual delivery of 37,764 acre-feet of water from the San Juan Basin. The project's eastern branch will divert approximately 4,645 acre-feet of water annually with no return flow to the San Juan River. The project's western branch will divert the remaining 33,119 acre-feet of water with an anticipated average annual return flow of 1,871 acre-feet.

The Omnibus Public Land Management Act of 2009, Title X Part III (Public Law 111-11) signed on March 30, 2009, provided the authorization to construct this important project as a major component of the Navajo Nation San Juan River Basin Water Rights Settlement in New Mexico. The act requires that all project features are completed no later than December 31, 2024.

On October 11, the Obama Administration announced the selection of 14 infrastructure projects to be expedited through the permitting and environmental review process including the Navajo-Gallup Water Supply Project

7.3 RURAL ADDRESSING

The Pinedale Chapter currently works closely with McKinley County GISC office in providing current up to date rural address plans. Since 1998 Pinedale Chapter has been a part of McKinley County GISC plans with rural addressing and E-911 initiatives.

Pinedale Chapter and Community Land Use Planning Committee are working closely with McKinley County to update road signs and home markers to ensure public safety and emergency response is available for all response calls.

Pinedale Chapter recently was provided a ArcGIS Pro software from Department of Interior and Bureau of Indian Affairs. Current plans will be to create comprehensive mapping and GIS plans utilizing data provided by Tech team and CLUPC.

7.4 NM Infrastructure Capital Improvement Plan 2020-2024

The Pinedale Chapter adopted the NM Infrastructure Capital Improvement Plan for FY 2020-2024 during its August 2018 regular chapter meeting. The following projects are listed and their ranking of priority are also provided:

- 1. Pinedale Administration & Veterans Building
- 2. N7054
- 3. New Bathroom Additions
- 4. Bathroom Addition renovations
- 5. Communication Tower
- 6. New Solid Waste Transfer Station
- 7. Rainbow Trail Road Improvements
- 8. Old Churchrock Mine Road Crossing
- 9. Waterfall Road Improvement
- 10. 1st Canyon Road Improvement
- 11. Regional Water System SCADA



8 LAND USE PLANNING

The Pinedale Community Land Use Planning Committee have recommended the following land use plan for the next five years. These recommended locations were carefully reviewed and will benefit the people and economic growth for the next generation.



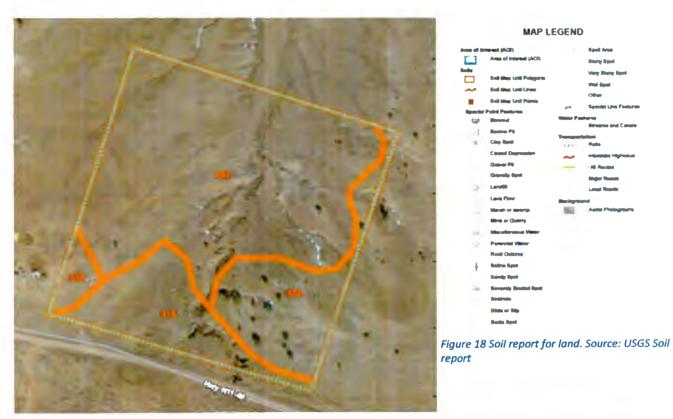
8.1 Below the Pines Housing Development

Housing Site #1 – 3 acres (1/2 southeast of Pinedale Chapter – Pinedale Loop)

Geology/Soil

The current elevation of this site location is 6400 ft. above sea level

Soil type:



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
242	Gish-Mentmore complex, 1 to 8 percent slopes	12.5	63.7%
315	Flugle-Fragua complex, 1 to 10 percent slopes	3.1	15.7%
338	Zyme-Lockerby association, 5 to 35 percent slopes	4.0	20.6%
Total of Area of Interest		19.5	100.0%

<u>Surface/water drainage:</u> There is a major drainage running through the site. However the small arroyo does not have wetland or eco system.

<u>Vegetation:</u> Small patches of grassland can be found in certain areas, some native plants also exist within the area.

<u>Wildlife:</u> According to recent survey of the area there are prairie dog, snakes, lizards and small insect in the area.



Figure 19 Below the Pines Housing development location, Pinedale Loop about $\frac{1}{2}$ SE of Pinedale Chapter House.

Environmental Sensitive area: There are

Cultural Significant Area/Traditional Significant Area: After taking survey there are no

Recommendation

This housing development will be located near the old artesian well within Executive Order Land. This land is currently available for land use by the Pinedale Chapter and its organization. Total acreage of land development 3.18 acres of land.

Utility information: Continental Divide Electric Co-Op, NTUA, Frontier



8.2 BELOW THE PINES MOBILE HOME PARK

MHP Site #1 – 3 acres (1/2 southeast of Pinedale Chapter – Pinedale Loop)

Geology/Soil

The current elevation of this site location is 6400 ft. above sea level

Soil type:





Figure 20 Soil report for land. Source: USGS Soil report

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
242	Gish-Mentmore complex, 1 to 8 percent slopes	0.9	12.9%
315	Flugle-Fragua complex, 1 to 10 percent slopes	6.0	85.5%
338	Zyme-Lockerby association, 5 to 35 percent slopes	0.1	1.2%
404	Rock outcrop-Techado-Stozuni complex, 5 to 60 percent slopes	0.0	0.4%
Total of Area of Inte	rest	7.0	100.0%

<u>Surface/water drainage:</u> There is a major drainage running through the site. However the small arroyo does not have wetland or eco system.

Figure 21 Below the Pines Housing development location, Pinedale Loop about ${\it \%}$ SE of Pinedale Chapter House.



<u>Vegetation:</u> Small patches of grassland can be found in certain areas, some native plants also exist within the area.

<u>Wildlife:</u> According to recent survey of the area there are prairie dog, snakes, lizards and small insect in the area.

Environmental Sensitive area: There are

<u>Cultural Significant Area/Traditional Significant</u> <u>Area:</u> After taking survey there are no

Recommendation

The potential to build a mobile home park near the old artesian well within Executive Order Land



Figure 22 Old Artesian well, possible location for Mobile Home Park

will have some issues related to historic building, old artesian well and old store foundation. There is also an earthen dam located just due south of the proposed area.

Utility information: Continental Divide Electric Co-Op, NTUA, Frontier

8.3 PINE TREE COMMUNITY CEMETERY

Cemetery Site #1 - 10.8 acres (1/2 south of Pinedale Chapter - Pinedale Loop)

Geology/Soil

The current elevation of this site location is 6375 ft. above sea level

Soil type:



Figure 23 Below the Pines Housing development location, Pinedale Loop about ½ SE of Pinedale Chapter House.



Figure 24 Soil report for land. Source: USGS Soil report

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
242	Gish-Mentmore complex, 1 to 8 percent slopes	3.0	28.1%
315	Flugle-Fragua complex, 1 to 10 percent slopes	4.3	40.3%
338	Zyme-Lockerby association, 5 to 35 percent slopes	3.4	31.6%
Total of Area of Interest		10.8	100.0%

<u>Surface/water drainage</u>: There is a major drainage running through the site. However the small arroyo does not have wetland or eco system. Earthen dam located just south of proposed development

<u>Vegetation:</u> Small patches of grassland can be found in certain areas, some native plants also exist within the area.

<u>Wildlife:</u> According to recent survey of the area there are prairie dog, snakes, lizards and small insect in the area.

Environmental Sensitive area: There are

<u>Cultural Significant Area/Traditional Significant</u>
<u>Area:</u> After taking survey there are no

Recommendation

The potential development of a community cemetery at this location is feasible. Immediate



Figure 25 South of old artesian well, proposed community cemetery.

access road is Pinedale Loop and Navajo Route 11-49. Total amount of acres could accommodate for future expansion for veteran and public use for cemetery land.

Utility information: Continental Divide Electric Co-Op, NTUA, Frontier



8.4 EDUCATIONAL COMPLEX

Educational site #1 - 10.8 acres (1/4 south of Pinedale Chapter - Pinedale Loop & N11-49)

Geology/Soil

The current elevation of this site location is 6400 ft. above sea level

Soil type:



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
230	Sparank-San Mateo-Zia Complex, 0 to 3 percent slopes	0.0	0.1%
242	Gish-Mentmore complex, 1 to 8 percent slopes	7.8	38.0%
338	Zyme-Lockerby association, 5 to 35 percent slopes	12.7	61.9%
Total of Area of Interest		10.8	100.0%

<u>Surface/water drainage</u>: There is a minor drainage running through the south end of the site. However the small arroyo does not have wetland or eco system. Earthen dam located just south of proposed development

<u>Vegetation:</u> Small patches of grassland can be found in certain areas, some native plants also exist within the area.

<u>Wildlife:</u> According to recent survey of the area there are prairie dog, snakes, lizards and small insect in the area.

Environmental Sensitive area: There are

<u>Cultural Significant Area/Traditional Significant</u>
<u>Area:</u> After taking survey there are no findings at present time.

Recommendation

The potential development of a future education complex site okay. The location is steep up about 10 ft. above Pinedale Loop, future level of land to accommodate both Navajo Route 11-49 and Pinedale Loop.

Utility information: Continental Divide Electric Co-Op, NTUA, Frontier



Figure 28 looking north toward Pinedale Chapter, proposed site for educational complex



8.5 Public Safety Complex

Public Safety site #1 - 11.3 acres (1/4 southeast of Pinedale Chapter - Pinedale Loop & N11-49)

Geology/Soil

The current elevation of this site location is 6100 ft. above sea level

Soil type:





Figure 29 Soil report for land. Source: USGS Soil report

Figure 30 Public Safety complex, Pinedale Loop about % SE of Pinedale Chapter House.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
242	Gish-Mentmore complex, 1 to 8 percent slopes	11.0	97.8%
338	Zyme-Lockerby association, 5 to 35 percent slopes	0.20	2.2%
Total of Area of Interest		11.3	100.0%

<u>Surface/water drainage</u>: There is a minor drainage running through the south end of the site. However the small arroyo does not have wetland or eco system. Earthen dam located just south of proposed development

<u>Vegetation:</u> Small patches of grassland can be found in certain areas, some native plants also exist within the area.

<u>Wildlife:</u> According to recent survey of the area there are prairie dog, snakes, lizards and small insect in the area.



Environmental Sensitive area: There are no significant findings for sensitive area.

<u>Cultural Significant Area/Traditional</u> <u>Significant Area:</u> After taking survey there are no findings at present time.

Recommendation

The potential development of a future public complex site is okay. The location is located in prime location and easy access for public safety response time.

Utility information: Continental Divide Electric Co-Op, NTUA, Frontier



Figure 31 looking east of Pinedale Loop, propose site for Public Safety complex

8.6 FOUTZ LAND

Total land size: 660 acres

Current Land owner: Foutz family

Community Land Use Planning Committee members have made planning priorities for future land acquisition at Township 16 Range 15 west Section 20 also known as "Foutz land". The current status of this land is listed as private. Pinedale Chapter continues to work with the Navajo Nation and the current landowners in transferring the land to Navajo Tribal Trust land.



Figure 32 Northeast corner of Foutz land, potential site for community cemetery plot

There have been numerous findings in cemetery plot the potential purchase of the land. One

of the major finding was illegal trash dump. Local residents have been known to dump their trash within the land and its arroyo. Over the years the area has been contaminated with illegal trash dump site. The dump site is located within the Puerco arroyo and near an access road.

Potential land development of these lands include:

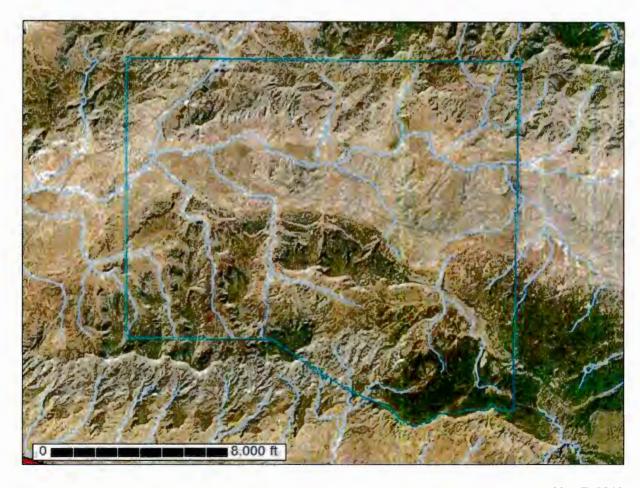
- Wastewater treatment plant utilizing green energy
- Water tank
- Waste disposal site & program
- Housing development
- Mobile home park
- Community cemetery
- Commercial development





NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for McKinley County Area, New Mexico, McKinley County and Parts of Cibola and San Juan Counties



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

RESOLUTION OF THE RESOURCES AND DEVELOPMENT COMMITTEE OF THE 23RD NAVAJO NATION COUNCIL --- FIRST YEAR, 2015

AN ACTION

RELATING TO RESOURCES AND DEVELOPMENT; DELEGATING AUTHORITY TO THE DIRECTOR OF THE NAVAJO LAND DEPARTMENT TO APPROVE LAND WITHDRAWALS ON THE NAVAJO NATION; AND APPROVING THE ADMINISTRATIVE RULES AND REGULATIONS FOR LAND WITHDRAWALS

BE IT ENACTED:

Section One. Findings

- A. Pursuant to 2 N.N.C. §502(B)(2), the Resources and Development Committee is authorized to give final approval of all land withdrawals; and
- B. Pursuant to 2 N.N.C. §501(B)(3), the Resources and Development Committee is authorized to delegate its powers to appropriate divisions of the Navajo Nation for efficiency and streamlining of government processes provided the Committee first grants final approval of rules and regulations governing such delegations and rescission of such delegations; and
- C. The current system of processing land withdrawals is confusing, time consuming, and inconsistent. It has resulted in delay and loss of development on the Navajo Nation; and
- D. Therefore, there is a need to delegate the authority to approve land withdrawals to the Director of the Navajo Land Department to streamline the land withdrawal process; and
- E. The process of reviewing documents associated with land withdrawals is an administrative task that can be performed by the Director of the Navajo Land Department; and
- F. The Resources and Development Committee finds it is in the best interest of the Navajo Nation to approve the delegation of authority.

Section Two. Delegation to the Director of the Navajo Land Department to Process Land Withdrawals and Approval of the Administrative Rules and Regulations for Land Withdrawals

- A. The Resources Committee of the Navajo Nation Council hereby approves the delegation of authority to the director of the Navajo Land Department, Division of Natural Resources, to approve Land Withdrawals on the Navajo Nation.
- B. The Navajo Nation hereby approves the Administrative Rules and Regulations, attached hereto as Exhibit "A".

CERTIFICATION

I, hereby, certify that the foregoing resolution was duly considered by the Resources and Development Committee of the 23rd Navajo Nation Council at a duly called meeting at Navajo Nation Council Chambers, Window Rock, Navajo Nation (Arizona), at which quorum was present and that same was passed by a vote of 3 in favor, 0 opposed, 0 abstain this 16th day of June, 2015.

Benjamin Bennett, Vice-Chairperson Resources and Development Committee

Motion: Honorable Benjamin Bennett Second: Honorable Davis Filfred Vote: 3-0 (Vice Chair not voting)



LAND WITHDRAWAL DESIGNATION REGULATIONS

§ 1. Purpose.

The purpose of these Regulations is to clarify and expedite the Land Withdrawal Designation process on the Navajo Nation, and explains that a Land Withdrawal Designation does not authorize development or disturbance on Navajo Nation land. This Land Withdrawal Designation process does not apply to how to get a lease. Prior to any development on the land, a lease must be obtained in addition to the withdrawal. The purpose of a Land Withdrawal Designation is to designate an area of land for future development by,

- a. Ensuring that the rights of grazing permittees, who are in compliance with their grazing permits, are properly addressed as applicable and as required under 16 N.N.C. §§ 1401 et seq. and to prevent any subsequent claims to the land; and
- Ensuring that the affected Chapter supports the Land Withdrawal Designation and use
 of the land.

§ 2. Scope.

These regulations apply to all Land Withdrawal Designations on the Navajo Nation.

§ 3. Delegation

- a. The Resources and Development Committee hereby delegates to the Director of the Navajo Land Department the power and authority to give final approval of all Land Withdrawal Designations on the Navajo Nation. The Director may sub-delegate this authority to a person under the Director's supervision, but this delegation of authority shall not be re-delegated to any other Department or Division within the Nation without the consent and approval of the Resources and Development Committee of the Navajo Nation Council.
- b. Resources and Development Committee hereby delegates authority to the Navajo Land Department to administer and manage Land Withdrawal Designations on the Navajo Nation, with the express power to adopt rules to further implement these regulations.

§ 4. Definitions.

- a. Community Development: Community Development encompasses infrastructure, economic development projects, installation of public facilities, community centers, housing, public services, businesses, schools, hospitals, government offices, and other similar projects.
- Designation Holder: Any person or entity who has obtained a Land Withdrawal Designation.
- c. Industrial Development: Economic activity concerned with the manufacture, and processing of materials or construction.
- d. Land Withdrawal Designation: A formal action used to designate and reserve a parcel of land for:
 - i. Community Development
 - ii. Industrial Development
- e. The Navajo Nation Business Site Leasing Regulations of 2005 (Business Site Leasing Regulations): Navajo Nation regulations that make business site leases mandatory for all businesses operating on the Navajo Nation.
- f. The Navajo Nation General Leasing Regulations of 2013 (General Leasing Regulations): Navajo Nation regulations that apply to all leases and permits for the use or possession of Navajo Nation trust land, with the exception of business and mineral leases.
- g. The Navajo Nation Government: The Navajo Nation Government is comprised of the legislative, executive, and judicial branches, as well as political subdivisions. For the purpose of land use, ownership, and these regulations, enterprises, businesses, housing authorities, or other entities created or owned by the Navajo Nation are not entities of the Navajo Nation Government.
- h. The Navajo Nation Trust Land Leasing Act of 2000 (Navajo Leasing Act, 25 U.S.C. §415(e)): A federal law that regulates the leasing of Navajo Nation lands. It allows the Nation to lease certain lands without Secretarial approval.
- Xi. Resolution of Support: A Resolution of Support is a resolution passed by an affected Chapter stating that they are in support of a particular entity or business locating within their chapter on withdrawn land.
- § 5. Use and Occupation of Navajo Nation Land.

A Land Withdrawal Designation does not authorize an entity outside the Navajo Nation Government to use, occupy, or disturb Navajo Nation land. The Navajo Leasing Act, Business Site Leasing Regulations, and General Leasing Regulations apply to all land use on the Navajo Nation. A lease is always required if the land is being developed by any entity outside the Navajo Nation Government.

§ 6. Land Withdrawal Designations for Navajo Nation Government.

The Navajo Leasing Act, Business Site Leasing Regulations, and General Leasing Regulations do not apply to the Navajo Nation Government. The Navajo Nation Government may develop on land designated by a Land Withdrawal Designation without a lease for government purposes only.

§ 7. Procedure to Acquire a Land Withdrawal.

. . . .

- a. Every individual, chapter, or entity desiring a Land Withdrawal Designation on the Navajo Nation shall submit an Application for Land Withdrawal to the Navajo Land Department (NLD). The Application shall be accompanied by the following supporting documents:
 - i. A letter of application or cover letter;
 - ii. A proposal for the planned use of the land; and
 - iii. A legal survey or GPS land description indicating the location.
- b. An entity requesting a Land Withdrawal Designation shall then submit their proposal to the Chapter to obtain a Resolution of Support.
 - All Chapter Resolutions should contain standard language approving a Land Withdrawal for either community development or industrial development.
 - ii. Resolutions of Support for community development Land Withdrawal

 Designations shall contain the following language: "The _____ Chapter hereby
 supports and recognizes this land withdrawal for community development,
 which may include, but is not limited to, the following purposes: housing,
 education, economic development, healthcare facilities, public use, or
 governmental use. Industrial development is not supported for this area." To
 change the use, Chapter approval must be obtained.

- Designations of Support for industrial development Land Withdrawal

 Designations shall contain the following language: "The _____ Chapter hereby supports and recognizes this Land Withdrawal Designation for the sole purpose of industrial development. Industrial development shall be considered the economic activity concerned with the manufacture, and processing of materials or construction." To change the use, Chapter approval must be obtained.
- iv. Once the Chapter Resolution of Support is passed by the affected Chapter, return the signed Resolution of Support to the NLD.
- c. The NLD will acquire the necessary consent from all grazing permittees holding a valid grazing permit with an interest in the land as applicable and required under 16 N.N.C. sections 1402 et seq. Consent will include infrastructure that supports the development and no additional consents are necessary.
- d. In the event the grazing permittees will not consent, but the proposed project is in the best interest of the community and the Navajo Nation, the appropriate authorities may undertake eminent domain as allowed pursuant to 16 N.N.C. §§ 1401-1403.
- e. Approval from NLD.
 - If all requirements are met, the NLD will approve the Land Withdrawal
 Designation. NLD will subsequently record the Land Withdrawal Designation
 on the Navajo land title recording system.
 - The NLD will not approve and record a Land Withdrawal Designation until all required documents are provided for review.
- f. If the Designation Holder is not the Navajo Nation Government, they must then begin the leasing process pursuant to The Navajo Leasing Act, Business Site Leasing Regulations, or General Leasing Regulations prior to any development, disturbance, use, or occupation of the land.

§ 8. Change in purpose.

- a. If the Designation Holder changes the purpose of the Land Withdrawal Designation, they must go back to the affected Chapter to obtain a new Resolution of Support.
- If a Chapter, as Designation Holder, wishes to permit an outside entity use of a
 portion of or the entire Land Withdrawal Designation, the Chapter must relinquish

The scope and administration of this delegation of authority to the Director of the Navajo Land Department and Administrative Regulations may be amended or rescinded by the Resources and Development Committee of the Navajo Nation Council.

6/16/2015 (3)

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LAND WITHDRAWAL DESIGNATION PROCEDURE consistent with Resolution No. RDCJN-33-15

I. Chapter or Proposed Land Withdrawal Designation Holder Responsibilities

- A. Draft proposed Chapter Resolution of Support (Resolution) for the land withdrawal designation.
 - Make sure a land withdrawal designation is necessary and not some other type of land use. Seek Project Review's assistance for clarification.
 - If it is determined that a land withdrawal designation is necessary, prepare a resolution consistent with the language identified in Section 7 (b) of the Land Withdrawal Designation Regulations found in the Resources and Development Committees Resolution No. RDCJN-33-15.
 - Attach a legal survey or GPS description as an Exhibit to the proposed Chapter Resolution showing the exact location and acreage of the proposed land withdrawal designation.
 - Attach the letter, as an Exhibit to the proposed Chapter Resolution, from the Grazing Official identifying the appropriate valid permit holders (land use or grazing).
- B. After the proposed Chapter Resolution is approved and finalized, the Designation Holder will compile a land withdrawal designation package consisting of the following documents:
 - 1. A letter of application or cover letter
 - 2. A proposal for the planned use of the land; and
 - 3. A legal survey or GPS land description indicating the location and acreages of land.
 - 4. The approved signed Support Chapter Resolution
- C. The Designation Holder will hand-carry or mail the land withdrawal designation package to:

Division of Natural Resources Navajo Land Department – Project Review Section Post Office Box 2249 Window Rock, Arizona 86515 (928) 871-6447

D. If the Designation Holder is not the Navajo Nation Government, after the Director of the Navajo Land Department (NLD) approves the land

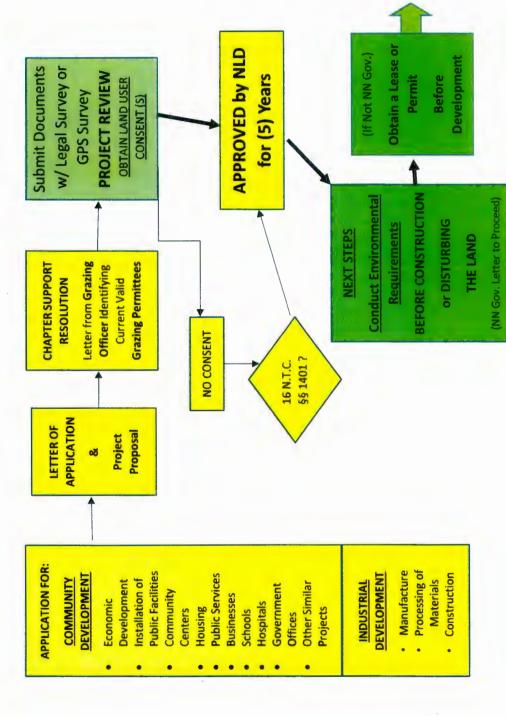
withdrawal designation, the proposed Designation Holder must then begin the leasing process pursuant to the Navajo Leasing Act, Business Site Leasing Regulations, or General Leasing Regulations prior to any development, disturbance, use, or occupancy of the land.

NOTE: Division of Economic Development, Business Regulatory Office handles all Business Site Lease applications.

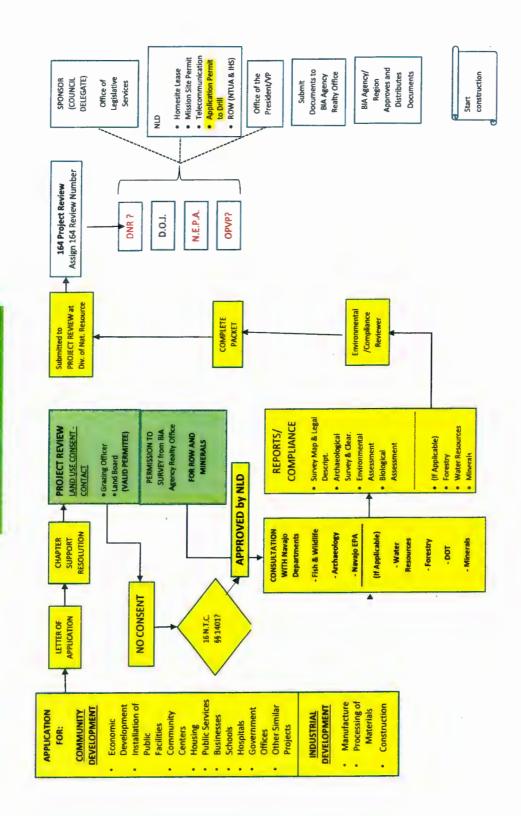
II. Project Review Section Responsibilities

- A. Log in proposed land withdrawal designation package and assign project identification number.
- B. Request Field Clearance services for the proposed designation project area to the Project Review Section Right-of-Way Agents.
- C. After field clearances are obtained, Project Review Section will submit the land withdrawal designation package to the Director of the Navajo Land Department for his/her approval.
- D. If all requirements are met, the Director of NLD will approve the Land Withdrawal Designation.
- E. NLD will subsequently record the Land Withdrawal Designation on the Navajo land title recording system.

Land Withdraw for Designation



PROJECT DEVELOPMENT PROCESS



the Land Withdrawal Designation and the outside entity must apply for their own Land Withdrawal Designation in their name for their specific purpose.

§ 9. Duration and Renewal.

- a. All Land Withdrawals shall be issued for a term of no more than five (5) years, with the possibility of extension of the term every five years thereafter, so long as the Designation Holder is not in violation of any provision set forth in these Regulations. The term shall be determined by NLD on a case-by-case basis.
- b. If the Designation Holder wishes to extend the Land Withdrawal Designation, the Designation Holder shall give written notice to NLD ninety (90) days prior to expiration of the original term. Renewal of the Land Withdrawal Designation will be at the sole discretion of NLD.
- c. A Land Withdrawal Designation will be terminated if any provision set forth in these Regulations is violated by a Designation Holder.
- d. A Land Withdrawal will be removed from the Navajo Nation land title recording system and open to other applicants for Land Withdrawal Designation or other land use at the expiration of the term or if the Land Withdrawal Designation is terminated for any reason. In the case of a Land Withdrawal Designation for a portion of a pre-existing Chapter land withdrawal, the area will revert back to the Chapter withdrawal status prior to the Land Withdrawal Designation application.

§ 10. Environmental Review Process.

- a. No environmental review is required for Land Withdrawal Designations issued to the non-Navajo Nation Government entities; however, when the entity obtains a lease, the General Leasing Regulations require environmental review.
- b. Since the Navajo Nation Government is not required to obtain a lease prior to development on the land, when the Navajo Nation Government obtains a Land Withdrawal Designation for Navajo Nation Governmental use, an environmental review must be completed.
- c. In the event that a Land Withdrawal Designation was done by the Navajo Nation Government, but the Navajo Nation Government relinquished the Land Withdrawal Designation for use by another non-Navajo Nation Governmental entity, the new Designation Holder must still undergo environmental review when a lease is obtained. Each program conducting an environmental review will determine if the use is

consistent with the former environmental review and will determine whether further analysis needs to be conducted.

§ 11. Oversight and Enforcement.

- a. Every department within the Navajo Nation Government that is responsible for such oversight shall work to ensure that all Land Withdrawal Designations are in compliance with these Regulations and other applicable Navajo Nation law.
- b. The Navajo Nation shall have the authority to enforce the provisions set forth in these Regulations in accordance with applicable Navajo Nation and federal law.

§ 12. Penalties.

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a. If a Designation Holder develops or otherwise disturbs the land without first having a valid lease, the Designation Holder is subject to trespass, and a penalty will be assessed by the NLD. 16 N.N.C. §§ 2251 and 2252.

§ 13. Transfer of Land Withdrawal Designations.

The NLD will approve transfers of Land Withdrawal Designations if the following conditions are met:

- a. Consent from the original Designation Holder has been acquired.
- b. The original Designation Holder or the transferee are not in violation of the Land Withdrawal Designation;
- c. No development or disturbance has taken place on the land in question;
- The purpose of the new Designation Holder is in accordance with the Resolution of Support, or a new Resolution of Support has been obtained;
- The transferee agrees to be bound by the terms of the Land Withdrawal Designation;
 and
- f. The NLD finds no compelling reason to withhold approval.

§ 14. Review and Amendments.



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF INDIAN AFFAIRS

APPROVAL OF

THE NAVAJO NATION GENERAL LEASING REGULATIONS OF 2013

The attached Navajo Nation General Leasing Regulations of 2013, submitted by the Navajo Nation, Arizona, New Mexico, & Utah, and prepared in accordance with 25 U.S.C. § 415(e) Leases of restricted lands for the Navajo Nation, consisting of 25 pages and adopted by the Navajo Nation Council on November 6, 2013, are hereby approved.

Dated: 5 10 14

Assistant Secretary - Indian Affairs

Pursuant to the authority delegated by 209 DM 8

United States Department of the Interior

RESOLUTION OF THE NAVAJO NATION COUNCIL

22nd NAVAJO NATION COUNCIL - Third Year, 2013

AN ACT

RELATING TO RESOURCES AND DEVELOPMENT AND NAABIK'İYÂTI'; APPROVING THE NAVAJO NATION GENERAL LEASING REGULATIONS OF 2013 AND ENACTING THE SAME AT 16 N.N.C. §2301 ET SEQ.

BE IT ENACTED:

Section 1. Findings and Purposes

- A. Except for mineral leases, the Navajo Nation Trust land Leasing Act of 2000, 25 U.S.C. § 415(e), Public Law 106-568 ("Leasing Act"), authorizes the Navajo Nation to issue leases without the approval of the Secretary of the Interior. Regulations for issuance of such leases must be consistent with the Leasing Act and approved by the Secretary of the Interior.
- B. The process on the Navajo Nation for agriculture, public, religious, educational, recreational and residential leases must be streamlined.
- C. The review and approval of the Secretary of the Interior is not necessary for leases authorized and approved by the Navajo Nation under the Leasing Act and Navajo Nation law and regulations.

Section 2. Approving the Navajo Nation General Leasing Act of 2013

The Navajo Nation hereby approves and enacts the Navajo Nation General Leasing Act of 2013, as provided below. Such enactment shall be codified at 16 N.N.C. §2301 et seq. as follows:

Title 16. Land Chapter 23. Navajo Nation General Leasing Regulations of 2013 Subchapter 1. General Provisions

§ 2301. Authority

The Navajo Nation Trust Land Leasing Act of 2000, 25 U.S.C. § 415(e), P.L. 106-568, Title XII, § 1202, December 27, 2000, 114 Stat. 2933 (hereinafter "Navajo Leasing Act"), authorizes the Navajo Nation to issue Leases, except mineral Leases, without the approval of the

Secretary, provided such Leases are executed under tribal regulations approved by the Secretary. The Secretary is authorized to approve such tribal regulations if such regulations are consistent with the regulations of the Secretary promulgated under 25 U.S.C. § 415(a), and any amendments thereto, and provide for an Environmental Review Process. These regulations will fulfill the requirements of the Navajo Leasing Act.

§ 2302. Purpose

The purposes of the Navajo Nation General Leasing Regulations of are to:

- A. Implement the authority of the Navajo Nation to issue Leases and Permits pursuant to the Navajo Leasing Act, as amended, and to establish streamlined procedures for environmental review, approval, management and enforcement of Leases;
- B. Develop a framework for future Navajo Nation regulations that cover specific areas of leasing referenced in § 2305 as required by the Navajo Leasing Act and which are consistent with these General leasing Regulations must be in place prior to any Leases or Permits being approved under the authority of the Navajo Leasing Act;
- C. Promote self-determination, encourage self-sufficiency, and improve efficiency of leasing of Navajo Nation Trust Lands;
- D. Identify and implement processes to protect and preserve Navajo Nation Trust Land, including provisions for trust asset accounting, modern leasing practices, and accurate record keeping and title recording.

§ 2303. Title

These Regulations shall be referred to as the Navago Nation Jeneral Leasing Regulations of 2013.

§ 2304. Definitions

For purposes of these Regulations:

A. Assignment means an agreement between a lessee/assignor and an assignee whereby the assignee acquires all of the lessee/assignor's obligations under a Lease.

B. Bond:

- 1). Appeal Bond means a guarantee of a certain sum of money sufficient to protect the financial interest of the Navajo Nation pending the outcome of any appeals provided for under these Regulations:
- ii). Performance Bond means a guarantee from a third party Surety that ensures performance obligations under a Lease, including but not limited to annual lease payments, development of improvements and reclamation requirements, if any.
- C. BlA means the Bureau of Indian Affairs of the United States Department of the Interior.
- D. Categorical Exclusion or CATEX means a category of actions which do not individually or cumulatively have a significant effect on human health or the environment and is therefore not subject to the Environmental Review Process under Subchapter 8 of these Regulations.
- E. Cognizant Agency for purposes of environmental review means the Navajo Nation Environmental Protection Agency and the Navajo Nation Departments of Historic Preservation and Fish and Wildlife, and any successor or equivalent Navajo Nation agencies with authority for environmental compliance review.
- F. Compliance Determination for purposes of environmental review means a "Cultural Resource Compliance Form," a "Biological Resource Compliance Form," or their equivalent.
- G. Delegation of Authority means, where, upon approval of the Resources and Development Committee of the Navajo Nation Council, or its successor in authority, a political subdivision of the Navajo Nation assumes leasing authority for Leases described within these Regulations that are also delegable pursuant to the Local Governance Act, 26 N.N.C. §§ 1-2005, as amended, or other relevant Navajo Nation law.
- H. Exempt Activities means activities that are exempt by Navajo Nation or federal law from the Environmental Review Process under Subchapter 8 of these Regulations.
- I. Fair Annual Lease Value means the most probable dollar amount a property would bring in a competitive and open market.

§ 2305. Scope

- A. These Regulations apply to all Leases and Permits for use or possession of Navajo Nation Trust Lands authorized under 25 U.S.C. 55 415(a), 415(e) and 635(a), including Leases for the development or utilization of natural resources, including renewable energy Leases and agricultural Leases, telecommunications site Leases, and Leases for public, religious, educational, recreational, or residential purposes, except business site leases which are authorized pursuant to Navajo Nation Business Leasing Regulations of 2005 approved by the Secretary on July 10, 2006. These Regulations shall not apply to mineral Leases. Nothing herein shall be construed to affect the terms and conditions of an existing Lease.
- B. Leases are mandatory for any short or long term use of Navajo trust land or where any permanent structure is fixed or located on Navajo trust land. Failure to comply with this section shall be addressed pursuant to Navajo Nation law.

§ 2306. Effective Date

These Regulations shall take effect upon approval by the Secretary.

5 2307. Choice of Law

All disputes arising out of Leases shall be resolved under the laws of the Navajo Nation, unless such laws are in conflict with federal law. Nothing herein shall be construed as a waiver of the sovereign immunity of the Navajo Nation.

§ 2308. Duration and Renewal

No Lease shall be approved more than twelve (12) months prior to the commencement of the term of the Lease. A Lease for public, religious, educational, recreational, or residential purposes may provide for a term up to and not to exceed seventy-five (75) years. The term of a Lease for any other purpose shall not exceed twenty-five (25) years except that any such Lease may include an option to renew for up to two additional terms, each of which may not exceed twenty-five (25) years on such terms and conditions as may be specified in such Lease, or such greater term as may be authorized by Congress. Unless the term of a Lease is for less than one year, it lessee shall notify the Navajo Nation of its intent to renew a Lease at least one year prior to the end of the lease term.

Subchapter 2. Obtaining a Lease

§ 2320. Information

Information on obtaining a Lease shall be available at the Navajo Land Department (NLD) of the Navajo Nation Division of Natural Resources, or other places authorized by Navajo Nation law. All applicants for Leases shall submit to the Navajo Nation a cover letter requesting a Lease. The Navajo Land Department, or political subdivision of the Navajo Nation, as applicable, shall inform the potential lessee of the requirements and requisite documentation needed to obtain a Lease.

§ 2321. Lease Application Supporting Documents

- A. A final Lease application requires the following documents for processing: (1) a fully completed Lease form; (2) an appraisal, if applicable; (3) a certified site survey, survey plat and legal description; (4) documentation of environmental review made pursuant to subchapter 8 of these Regulations; and (4) other documents as may be required pursuant to Navajo Nation law or policies, or applicable federal law.
- B. The NLD or its successor shall not process the Lease or Permit application for final approval until all the required documents under this section have been provided for review and consideration by the authorized approving authority.

§ 2322. Records

A. The Navajo Nation shall record all Leases, Permits (except Permits that do not involveany land disturbance) Subleases, Assignments, amendments, encumbrances, renewals, modifications and cancellations, made, issued or otherwise authorized pursuant to these Regulations, with the:

Land Title and Records Office

Southwest Regional Office

Bureau of Indian Affairs P.O. Box 26567 Albuquerque, NM 87125-6567

B. A copy of a Lease and all amendments, renewals, cancellations, and Assignments thereto shall also be sent for information purposes only to the Secretary of the Interior, c/o the Bureau of Indian Affairs, Navajo Regional Office, for the appropriate Agency Real Estate Services Offices at the addresses provided below,

pursuant to 35 U.S.C. §§ 415 (e)(4)(A) and (B). The five Agency Real Estate Services Offices are:

Agency	Address
Chinle Agency	Real Estate Services
	P.O. Box 7H
	Chinle, AZ 86503
Eastern Navajo Agency	Superintendent
i	Attention: Real Estate
	Services
į	P.O. Box 328
i	Crownpoint, NM 97313
Fort Defiance Agency	Real Estate Services
	P.O. Box 619
	Ft. Defiance, AZ 86504
Shiprock Agency	Real Estate Services
	P.O. 3538
	Shiprock, NM 87420
Western Navajo Agency	Real Estate Services
	P.O. 127
	Tuba City, AZ 86045

§ 2323. Ownership of Records

Records of activities taken pursuant to these Regulations are the property of the United States and the Navajo Nation and its delegated political subdivisions. Records compiled, developed or received by the Navajo Nation in the course of business with the Secretary are the property of the Navajo Nation.

Subchapter 3. Lease Requirements

3 2330. Terms and Conditions

Leases shall be in a form approved by the Navajo Nation in accordance with applicable law and shall include standard terms and conditions. The standard terms and conditions may be modified only with the approval of the Navajo Nation. Leases may contain a provision that requires a lessee to consent to the jurisdiction of the Navajo Nation to address all issues arising out of the Lease.

5 2331. Land Descriptions

Leases shall contain adequate site surveys and legal descriptions based on metes and bounds, rectangular, or lot and block systems.

§ 2332. Appraisal, Local Studies

A. Appraisal Method:

- 1. The Fair Annual Lease Value shall be determined by an appraisal or equivalent procedure performed by the Navajo Nation utilizing the following data: improvement cost, replacement cost, earning capacity, and sales and Lease data of comparable sites.
- 2. Alternatively, the Fair Annual Lease Value shall be determined by an appraisal performed by a licensed appraisar utilizing the Uniform Standards of Professional Appraisal Practice or other commonly accepted method of appraisal.
- 3. An appraisal log reporting the methods of appraisal and appraisal value of trust land shall be attached to every Lease.
- B. If the need arises, the Navajo Nation may seek assistance from the Office of Special Trustee's Navajo Region. Branch of Appraisal, for technical assistance in reviewing an appraisal or to perform an appraisal required under these Regulations.
- C. No appraisal shall be required for a Lease for 1) residential purposes, including home sites, schools, religious tacilities, or medical facilities; ii) Leases for use of Navajo Nation Trust Land by federal, state and local governments, non-profits, public projects or public utilities, where such entities or projects are providing essential governmental or utility services to Navajo people; or iii) for other public purposes as authorized by applicable laws and regulations.

§ 2333. Environmental Review Process

The Navajo Nation shall not make a final Leasing or Permitting Decision unless the Nation has ensured compliance with the Environmental Review Process ("ERP") required under these Regulations. The Navajo Nation shall not approve of any Lease or Permit if there is a determination of non-compliance under Subchapter 3 in these Regulations. Leases executed in material violation of this section shall be null and void.

5 2334. Fair Annual Lease Value

- A. Unless otherwise provided, no Lease shall be approved for less than the present Fair Annual Lease Value as set forth in the appraisal, except as follows:
 - 1. The lessee is in the authorized development period;
 - 2. The Navajo Nation is providing an incentive for the Lease applicant to locate on the Navajo Nation, and must provide Lease concessions, Lease improvement credits, and Lease abatements to attract the proposed Lease activity; or
 - 3. The Navajo Nation otherwise determines such action is in the best interest of the Navajo Nation.
- B. Unless otherwise provided, Lease payments will be structured on a flat lease rate basis.
- C. Unless otherwise provided, the Lease shall provide for periodic review and adjustment at least every five years. Such review and adjustment shall give consideration to the then existing economic conditions, exclusive of improvement or development required by the contract or the contribution value of such improvement or development.
- D. Leases for terms of less than five years may be structured to allow for lease rate adjustments. The Lease shall specify how adjustments will be made, who will make such adjustments, when adjustments will go into effect, and how disputes shall be resolved.
 - E. Leases may be amended to allow for lease rate adjustments.
- F. The Navajo Nation may waive the rent, or charge nominal rent, for i) residential Leases, including home sites, schools, religious facilities, or medical facilities; ii) Leases for use of Navajo Nation Trust Land by federal, state and local governments, non-profits, public projects and public utilities, where such entities or projects are providing essential governmental or utility services to Navajo people; or iii) for other public purposes as authorized by applicable laws and regulations.
- G. The Navajo Nation shall keep written records of the basis used in determining the Pair Annual Lease Value, as well as the basis for adjustments. These records shall be included in the appropriate Lease file.

§ 2335. Performance Bond

- A. The lessee, unless otherwise provided, shall obtain a satisfactory Performance Bond or other Surety acceptable to the Navajo Nation, in an amount that reasonably assures performance of the Lease. Such Bond shall be for the purpose of quaranteeing:
 - 1. The annual Lease payment;
 - 2. The estimated development cost of improvements;
 - 3. Compliance with a reclamation plan, if applicable; and
 - 4. Any additional amount necessary to ensure compliance with the Lease.
- B. The Navajo Nation may waive the Bond requirement, or reduce the amount, if doing so is in the best interest of the Navajo Nation. In the event that a reclamation plan is determined to be necessary by the Nation, the lessee shall be required to submit such a plan prior to Lease approval, and implement the plan at termination of the Lease. This Bond requirement shall not apply where the Navajo Nation has waived the rent, except where a reclamation plan is determined necessary. The Navajo Nation shall maintain written records of waivers and reductions in the appropriate Lease file.

§ 2336. Insurance

A lessee shall secure insurance from a nationally accredited insurance company with a financial strength rating of "A" or equivalent, and must be authorized to do business in the state where the premises is located, or authorized by the Navajo Nation according to applicable Navajo Nation law. It shall cover general liability and casualty. The amount shall be sufficient to cover the improvements, personal injury or death, and any reasonably potential foreseeable loss of the lessor and the United States. The insurance shall expressly identify the lessor and the United States as additional named insured parties. The insurance requirements shall not apply to home site Leases or when the Navajo Nation is the lessee. The Navajo Nation may waive the insurance requirement for any lessee that is an entity or enterprise of the Navajo Nation.

§ 2337. Improvements

A. Improvements to the premises shall become the property of the Navajo Nation at the termination of the leasehold unless otherwise provided for in the Lease. If the Lease authorizes the

improvements to be removed by the lessee, the Lease shall specify the time allowed for such removal.

B. If provided for in the Lease, a lessee may develop equity value in the improvements, and sell its interest in the Lease based on the equity value. The Navajo Nation shall have a right of first refusal to purchase such interest.

§ 2338. Subleases, Assignments, Amendments and Encumbrances

- A. All Subleases, Assignments, amendments or encumbrances of any Lease shall require the written consent of the Navajo Nation as well as any sureties, unless otherwise provided herein.
- B. A Lease may authorize Subleases, in whole or in part. The lessee shall remain liable for its duties under the Lease notwithstanding any subleasing of the leasehold or any part thereof.
- C. The Lease may authorize encumbrances to the leasehold interest for the purpose of financing to develop and improve the premises, subject to the approval of the Navajo Nation. If a sale or foreclosure occurs and the encumbrancer is the purchaser, the encumbrancer may assign the Lease without approval of the Navajo Nation or lessee, provided the encumbrancer/assignee must agree in writing to be bound by all the terms and conditions of the Lease. If the purchaser is a party other than the encumbrancer, approval by the Navajo Nation shall be required, and any approved purchaser must agree in writing to be bound by all the terms and conditions of the Lease.

Subchapter 4. Lease Administration

§ 2350. Administration

- A. The Navajo Nation shall administer Leases executed pursuant to these Regulations and may administer existing Leases previously approved by the Secretary as may be provided for under a P.L. 93-638 self-determination contract or compact or under other applicable authority.
- B. The Navajo Nation shall employ sound real estate management practices in exercising its authority under these Regulations, including without limitation accounting, collections, monitoring, enforcement, relief, and remedies.
- C. Political subdivisions of the Navajo Nation may issue Leases pursuant to a Delegation of Authority provided they do so in accordance with these Regulations and Navajo Nation law.

Administration by a political subdivision of Leases executed prior to such political subdivision obtaining such authority shall require an Assignment of the Navajo Nation's duties and rights as lessor and consent of the lessee. Such Delegation of Authority shall be revocable by the Resources and Development Committee of the Navajo Nation Council upon recommendation of the Navajo Nation Department of Justice.

§ 2351. Accounting

The Navajo Nation shall implement and/or maintain an accounting system to ensure proper payment on Leases where applicable, in accordance with Navajo Nation law and fiscal policies.

§ 2352. Administrative Fees

The Navajo Nation may charge administrative fees for costs associated with issuing a Lease, Sublease, Assignment, amendment, mortgage or other administrative transaction.

Subchapter 5. Enforcement

§ 2360. Enforcement

The Navajo Nation and its delegated political subdivisions shall have the authority to enforce the terms and conditions of Leases and Permits issued under these Regulations in accordance with applicable Navajo Nation and federal law.

§ 2361. Defaults, Cancellation and Remedies

- A. A Lease shall include provisions for fair notice, default, and remedies. Upon a showing satisfactory to the Nation that there has been a violation of the Lease or these Regulations, or of any law or regulation specifically applicable under the Lease, by a lessee, the lessee shall be provided with written notice of the alleged breach, and given ten (10) days to show cause why the Lease should not be cancelled. Upon request by the lessee, the lessee shall be given a reasonable opportunity to cure a breach which the Navajo Nation determines can be corrected and the lessee shall proceed diligently to perform and complete the corrective actions within a reasonable time period as established by the Navajo Nation's authorized representative.
- B. If the Navajo Nation cancels a Lease, the Navajo Nation shall provide the lessee with thirty (30) days' advance notice of the cancellation by certified mail, which shall become effective thirty-two (32) days after mailing. Such notice shall state the right to

appeal to the Office of Hearing and Appeals pursuant to Subchapter 6 of these Regulations, and a statement of any monies due.

C. In case of the cancellation of a Lease, the filing of an appeal shall not change the effective date of the cancellation, but shall stay any eviction proceeding in accordance with Subchapter 6 of these Regulations. Pending the outcome of an appeal, the lessee shall make all requisite payments, as well as comply with the terms of the Lease, including any requirements for environmental or hazardous waste remediation and reclamation of the leasehold premises. If the lessee fails to make such payments pending the outcome of an appeal, the stay shall be lifted and the Navajo Nation may immediately commence eviction proceedings, bring an action in forcible entry and detainer, pursue remedies under the Navajo Nation Civil Trespass Act, or take any other action the Navajo Nation deems appropriate to protect its interests.

§ 2362. Penalties

A Lease shall specify the rate of interest to be charged if the lessee fails to make payments in a timely manner and identify additional late payment penalties. Unless the Lease provides otherwise, interest charges and late payment penalties shall apply in the absence of any specific notice to the lessee from the Navajo Nation, and the failure to pay such amounts shall be treated as a breach of the Lease.

§ 2363. Harmful or Threatening Activities

If a lessee or other party causes or threatens to cause immediate and significant harm to the premises, or engages in criminal activity thereon, the Navajo Nation may take appropriate emergency action in accordance with Navajo Nation law, including immediately cancelling the Lease, commencing eviction proceedings, bringing an action in forcible entry and detainer, pursuing remedies under the Navajo Nation Civil Trespass Act, or taking any other action deemed appropriate to protect the public interest, the premises, and the environment.

§ 2364. Holdover and Trespass

If a lessee remains in possession after the expiration or cancellation of a Lease, the Navajo Nation may treat such occupation as a holdover tenancy, or as a Trespass, and if treated as a Trespass may pursue any remedy available under Navajo Nation or federal law.

Subchapter 6. Appeals

§ 2370. Appeals

- A. A lessee or Interested Party may appeal a final determination of the Navajo Nation regarding a Lease within twenty (20) days of the determination. Such appeal shall be filed with the Navajo Nation Office of Hearings and Appeals (OHA). The written complaint shall set forth in plain language the basis for the appeal, a short statement demonstrating the interest of the appellant, a short statement indicating the nature and circumstance of the appeal, and a short statement indicating the remedy being sought. A stay of enforcement shall be effectuated only by the filing of an Appeal Bond set by the OHA pending the exhaustion of all available Navajo Nation remedies, except in matters involving home site Leases, which shall not require an Appeal Bond. Service of process shall be made on the authorized Navajo Nation representative identified in the Lease and to the Navajo Nation Office of the Attorney General in accordance with the Navajo Rules of Civil Procedure.
- B. An Appeal Bond shall be set in an amount sufficient to protect the Navajo Nation from all financial losses that may occur as result of the appeal. Appeal Bond requirements shall not be separately appealed, but may be contested during the appeal as a preliminary matter for expedited decision by OHA.
- C. The OHA shall uphold the determination of the Navajo Nation unless it is:
 - Arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with the law;
 - 2. In excess of statutory jurisdiction, authority, or limitations or short of statutory right;
 - 3. Without observance of procedure required by law; or
 - Unsupported by substantial evidence.

§ 2371. Appeals to the Navajo Nation Supreme Court

The lessee or Interested Party may appeal, within thirty (30) days, the final decision of OHA to the Navajo Nation Supreme Court. A stay of execution may be effectuated by the Navajo Nation Supreme Court only by the filing of an Appeal Bond except in matters involving home site Leases which shall not require an Appeal Bond. The failure to exhaust administrative remedies before the OHA or to file an appeal within thirty (30) days shall be a jurisdictional bar to the filing and consideration of any such appeal. Review shall be limited to issues of law and the record. The Court shall uphold

findings of fact if supported by substantial evidence and review issues of law de novo. A finding of fact is supported by substantial evidence where, upon examining the relevant evidence, a reasonable mind could accept the evidence as adequate to support the conclusion, even if it is possible to draw two inconsistent conclusions from the evidence.

[Subchapter 7. Reserved]

Subchapter 8. Environmental Review Process

§ 2380. Environmental Reviewer

Prior to exercising leasing authority under these Regulations. the Navajo Nation shall create a position within the Navajo Nation Division of Natural Resources to be the Environmental Compliance Officer for Leases ("Environmental Reviewer" or "ER") who shall be responsible for carrying out the Environmental Review Process ("Environmental Review Process" or "ERP") under this Subchapter. The ER will consult with the relevant Navajo Nation agencies and determine which Cognizant Agency is responsible for making Compliance Findings for each of the areas and/or laws identified in \$2384 of this Subchapter.

§ 2381. Environmental Reviewer's Authorities and Duties

A. The ER shall:

- 1. Review all proposed Leases and Permits to ensure compliance with these Regulations and other applicable law and policies.
- 2.Establish procedures to expedite the Compliance Determination process, and consult with appropriate Navajo Nation agencies in the development and implementation of any such procedures.
- 3. Perform the ERP and make a summary of Environmental Review Findings and Compliance Determinations ("Compliance Determination Summary").
- 4. Complete an Environmental Review Record ("ERR" or "Record").
- B. At his or her discretion, the ER may provide the lessee with technical assistance to remedy deficiencies found within the contents of the Compliance Determination forms.

§ 2382. Threshold Determinations

- A. Leasing and Permitting Decisions Not Subject to ERP: (1) The Navajo Nation is not required to undertake an environmental review under these Regulations for activities exempt under Navajo Nation or federal law. (ii) The Navajo Nation is not required to undertake an environmental review under these Regulations for activities it determines are a CATEX, unless the activities may have a Significant Impact on the quality of the human environment. If the ER determines that a Leasing Decision is exempt or qualifies as a CATEX, the ER shall provide written documentation of such determination.
- B. If the ER determines, after consulting with the Cognizant Agencies, that the Leasing Decision by its nature would not individually or cumulatively have a Significant Impact on human health or the environment, to include the biological and cultural resources of the Navajo Nation, the ER shall issue a written Finding of No Significant Impact and the Leasing Decision shall be exempt from additional requirements of the ERP, subject to the recording requirements of \$2388 and \$2389; CATEX activities include:
 - 1. Acquisition, repair, improvement, reconstruction, or rehabilitation of buildings and improvements not requiring a change in land use.
 - Acquisition, repair, reconstruction, or rehabilitation of facilities (other than buildings) and improvements not changing the size or capacity, and not changing the design use.
 - 3. Activities already contemplated under a master Lease for which the environmental review was already completed.
 - 4. Renewals, extensions and amendments to existing Leases and Permits where the environmental review was already completed, and no Significant Impact to the human environment will occur.
 - 5. Removal of materials and architectural barriers that restrict the accessibility of elderly and handicapped persons.
- C. Leasing Decision Subject to Environmental Review Process: If the ER determines that the Leasing Decision may individually or cumulatively have a Significant Impact on human health or the environment, including but not limited to impacting, altering, or

disturbing the biological and cultural resources of the Navajo Nation, the Leasing Decision shall be subject to the ERP.

5 2383. Action on Leasing Decision Subject to Completion of ERP

If the ER determines that a Leasing Decision is subject to an ERP, the Leasing Decision shall not be made until the ER completes the ERP as required by these Regulations.

§2384. Lessee Responsible for Environmental Compliance Determinations

- A. A lessee has primary responsibility for providing documentation of environmental compliance. The Lessee shall provide to the ER a Compliance Determination for all environmental laws. Regulations and policies, as amended, applicable to the Leasing Decision, including, but not limited to the following:
 - National Historic Preservation Act, 16 U.S.C. §§ 470 er seq.
 - Endangered Species Act, 7 U.S.C. § 136, U.S.C. §§ 1531 et seq.
 - Farmland Protection Policy Act, 7 U.S.C. \$5 4201 et seq.
 - Clean Air Act, 42 U.S.C. §§ 7401 et seq.
 - Eagle Protection Act, 16 U.S.C. §§ 668-668c
 - Migratory Bird Treaty Act, 16 U.S.C. §§ 703-712
 - Navajo Nation Environmental Policy Act, 4 N.N.C. §§ 901 et seq.
 - Navajo Nation Cultural Resources Protection Act, 19 N.N.C.
 §§ 1001 et seq.
 - · Navajo Nation Solid Waste Act, 4 N.N.C. \$\$ 101 et seq.
 - Navajo Nation Air Pollution Prevention and Control Act, 4
 N.N.C. §§ 1101 et seq.
 - Navajo Nation Safe Drinking Water Act, 22 N.N.C. §§ 2501 et seq.
 - Navajo Nation Clean Water Act, 4 N.N.C. \$\$ 1301 et seq.

- Navajo Nation Underground Storage Tank Act, 4 N.N.C. §§
 1501 et seq.
- Navajo Nation Pesticide Act, 4 N.N.C. §§ 301 et seq.
- Golden and Bald Eagle Nest Protection Regulations (GBENPR)
- Navajo Endangered Species List (NESL)
- Biological Resource Land-Use Clearance Policies and Procedures (RCP)
- All other applicable Navajo Nation and federal laws, regulations and policies
- B. Lessee's responsibility to provide said environmental Compliance Determinations under this Subchapter is in addition to and separate from lessee's ongoing obligation to comply with all applicable environmental laws.

§ 2385. Compliance Determinations

- A. The lessee shall request a Compliance Determination from each Cognizant Agency identified by the ER and shall provide said agency with the information it requires to make the Compliance Determination. Findings and Compliance Determinations must be signed by the agency official responsible for such findings and determinations.
- B. The Compliance Determination performed by the Cognizant Agencies must clearly describe the Leasing Decision under consideration, provide an evaluation of the Leasing Decision's impact on the regulated resource or condition, and provide a finding whether the Leasing Decision will comply with all applicable environmental laws under that agency's purview, and identify any mitigation required for compliance.
- C. If the ER and the lessee have made reasonable efforts to obtain a Compliance Determination from the Cognizant Agency, and are unable to obtain a Compliance Determination within thirty (30) days of the Agency having received the request for a determination and all applicable information, the ER may make the Compliance Determination, provided, the Compliance Determination must be supported by knowledge and reliable information which can be obtained from other sources.

§2386. Compliance Determinations in Earlier or Concurrent Environmental Review Documents

- A. If the Leasing Decision pertains to an existing Lease that has undergone an environmental review pursuant to the these Regulations, the Nation's Business Site Leasing Regulations, or the National Environmental Policy Act of 1969, 42 U.S.C. § 4321 et. 556. (NEPA), those earlier environmental review documents may be used to meet one or more Compliance Determination(s) under this Subchapter, subject to the ER's determination in §2388 that the Compliance Determination adequately evaluates the impacts of the Leasing Decision.
- B. As early in the process as possible, the ER should review the earlier environmental review documents and assess whether the Compliance Determinations in those documents sufficiently evaluate the impacts of the Leasing Decision. If disturbances associated with the Leasing Decision were not evaluated by the earlier environmental review documents, a compliance update or amendment from the agency that has regulatory responsibility for the resource that has not been adequately evaluated shall be required.
- C. In the event a federal agency requires the lessee to conduct an environmental review under NEPA in connection with a federal decision that is related to the Leasing Decision, the ER may use those NEPA documents for purposes of the ERP if the documents meet the requirements of this Subchapter.

§ 2387. Public Notice Requirements and Bearings

- A. If the ER finds that a Leasing Decision is likely to have a Significant Impact on the human environment, the ER will consider and analyze reasonable alternatives that may minimize the impacts and provide the public notice of the Navajo Nation's intent to complete an ERP as well as the opportunity to comment on the alternatives.
- B. Such notice will be published in a local newspaper of general circulation, and will provide for a thirty (30) day comment period, which may be extended for good cause in the ER's discretion. The Notice will identify where the Environmental Review Record ("Record" or "ERR"), may be obtained. The notice will state that public comments which are timely received will be considered before the ER completes the ERP.
- C. The ER shall determine whether or not to hold public hearings. The ER shall consider the following factors in making its determination:

- 1. Economic cost;
- Geographic areas;
- 3. Amount of resources needed;
- 4. Degree of controversy or support; and
- 5. Extent to which public involvement may have been achieved by other means.
- D. All public hearings shall be published in the media at least fifteen (15) days prior to the hearing. The notice shall include the following information:
 - 1. The date, time, place and purpose of the public hearing;
 - A description of the project, its location, estimated cost and benefits;
 - 3. A statement that individuals will be afforded the opportunity to comment on environmental issues;
 - 4. State the ER's name and address; and
 - 5. State what documents are available for review by the public where they may be obtained, and any charges that may apply to providing the information to the public.

§ 2388. Finding of Environmental Compliance and Completion

- A. Before the ER may complete the ERP, the ER shall:
- 1. Ensure that the public comment period has passed, if applicable, and the ER has considered any comments and incorporated the comments and any responses of the Navajo Nation as appropriate into the Record;
- 2. Affirmatively find and place in the Record a signed, dated statement that the Leasing Decision is in compliance with all applicable environmental requirements ("Finding of Compliance").
- 3. Place a summary of the Compliance Findings in the Record, which shall include:
 - i. The identification of the source of a Compliance determination if contained in an earlier environmental review; and
 - ii. A summary and copy of each Cognizant Agency's Compliance Determination for all applicable

environmental laws under that agency's purview, including any conditions of compliance or required mitigation.

B. Upon Completion of the ERP, the ER will transfer the Record to the appropriate Navajo Nation official or legislative body that has the authority to make a final Leasing Decision.

§ 2389. Environmental Review Record

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- A. An Environmental Review Record must be completed for every ERP, including for Leasing Decisions the ER finds to be exempt from the ERP, qualifies as a CATEX or exempt from a full ERP based upon a Finding of No Significant Impact under \$2382 (A) and (B). The ERR must be maintained in a written format and shall be available for public review in accordance with the Navajo Nation Privacy Act, 2 N.N.C. 55 81 et seq., as amended.
- B. The Environmental Review Record must contain all documents relevant to the ERP, including but not limited to, the following:
 - 1. Written determinations by the ER pursuant to this Subchapter;
 - Correspondence with the Lessee and government agencies including all Cognizant Agencies;
 - 3. Compliance Determinations including source documents and supporting documents;
 - 4. Public notices, if applicable;
 - 5. Public comments and any responses, if applicable; and
 - 6. The Finding of Compliance and Compliance Determination Summary and ER Findings.

§ 2390. Revisions to the Environmental Review Record

A. The ER shall reopen an ERR if:

1. There are changes in the nature, magnitude or extent of a proposed activity, and that activity was not already contemplated and may have a significant effect on the human environment.

- 2. There are changes in the circumstances and environmental conditions, and these were concealed in the original ERR.
- 3. There are changes in data and conditions since the original ERR was completed.
- B. Once the responsibility entity reevaluates the ERR, it shall either revise the ERR, or develop a new ERR.

Subchapter 9. Amendments; Severability

§ 2395. Amendments

- A. The Resources and Development Committee of the Navajo Nation Council or its successor may amend these Regulations without the Secretary's approval, so long as the amendment is for clarification or administrative convenience, and is not inconsistent with 25 U.S.C. § 415(e), as amended.
- B. The determination of whether a proposed amendment to the Regulations is for clarification or administrative convenience and that it is not inconsistent with 25 U.S.C. §415(E) shall be made by the Attorney General, Navajo Nation Department of Justice.

§ 2396. Severability

If any Navajo Nation court or other court of competent jurisdiction determines a provision in these Regulations or a Lease is invalid, void or unenforceable, the remainder shall remain in full force and effect without regard to the invalid, void or unenforceable portion.

§ 2397. Petitions to the Secretary

Any Interested Party aggrieved by the Navajo Nation's violation of these Regulations may file a Petition with the Secretary within thirty (30) days after exhausting all available Navajo Nation remedies to review the alleged violation as provided for under 25 U.S.C. § 415(e). The failure to exhaust all available Navajo Nation remedies and to file a Petition within thirty (30) days shall be a jurisdictional bar to the filing and consideration of any such Petition. The Secretary shall review any findings of fact under a clearly erroneous standard and shall review any conclusions of federal law de novo, but shall defer to Navajo Nation administrative hearing bodies and/or Navajo Nation courts on the proper

interpretation of Navajo Nation law. In any such Petition, the Secretary shall limit relief to mediation, injunctive relief, declaratory relief, and/or rescinding approval of these Regulations and reassuming responsibility for the approval of Leases for Navajo Nation Trust Lands.

Section 3. Effective Date

Subject to section 2306 of the regulations above, the Act Enacted herein shall be effective pursuant to 2 N.N.C. §221.

Section 4. Codification

Subject to section 2306 of the regulations above, the provisions of this Act which amend or adopt new sections of the Navajo Nation Code shall be codified by the Office of Legislative Counsel.. The Office of Legislative Counsel shall incorporate such amended provisions in the next codification of the Navajo Nation Code.

Section 5. Savings Clause

Should any provision of this Act be determined invalid by the Navajo Nation Supreme Court, or the District Courts of the Navajo Nation without appeal to the Navajo Nation Supreme Court, those provisions of the Act which are not determined invalid shall remain the law of the Nation.

CERTIFICATION

I hereby certify that the foregoing resolution was duly considered by the Navajo Nation Council at a duly called meeting in Window Rock, Navajo Nation (Arizona) at which a quorum was present and that the same was passed by a vote of 16 in favor and 1 opposed, this 22nd day of October 2013.

Johnny Naize, Speaker Navajo Nation Council

11-01-13

Pate

Motion: Honorable Leonard Pete Second: Honorable Duane Tsinigine

ACTION BY THE NAVAJO NATION PRESIDENT:

1.	I hereby sign into law the foregoing legislation, pursuant to 2 N.N.C.
	§ 1005 (C) (10), on this day
	of NOV 0 6 2013 2013.
	Bully
	Ben Shelly, President
	Navajo Wation

2. I hereby veto the foregoing legislation, pursuant to 2 N.N.C. \$1005 (C) (11), this ______ day of ______ 2013, for the reason(s) expressed in the attached letter to the Speaker.

Ben Shelly, President

Navajo Nation

- J. Finding of No Significant Impact or FONSI means an Environmental Reviewer determines in a written document that a Leasing Decision will not have a significant impact on the quality of the human environment.
- K. Interested Party means an Indian or non-Indian individual or corporation, or tribal or non-tribal government whose interest could be adversely affected by a tribal trust land Leasing Decision made by the Navajo Nation.
- L. Lease means a written agreement between the lessor and a lessee, issued under these Regulations as authorized by 25 U.S.C. 55 415 (a) and (e), wherein the lessee is granted a right to possess Navajo Nation Trust Land for a specific purpose and limited duration.
- M. Leasing Decision in the context of the Environmental Review Process means the following types of Lease or Permit transactions that will be acted on by the Navajo Nation or its delegated political subdivision:
 - i). Issuance of a Lease or Permit;
 - ii). Amendment or modification of a Lease or Permit;
 - iii). Assignment or transfer of a Lease or Permit; and
 - iv). Granting of a Sublease as applicable.
 - N. Navajo Nation means the Navajo Nation Government.
- O. Navajo Nation Trust Land means the surface estate of land or any interest therein held by the United States in trust for the Navajo Nation; land held by the Navajo Nation and subject to federal restrictions against alienation or encumbrance; land held by the United States in trust for a Navajo Nation corporation chartered under Section 17 of the Indian Reorganization Act.
- P. Permit means a written authorization or license granted by the Navajo Nation whereby the permittee is granted a use or revocable use privilege to use Navajo Nation Trust Land for a specified purpose and limited duration.
- Q. Petition means a written request submitted to the Secretary for the review of an action or inaction of the Navajo Nation that is claimed to be in violation of these Regulations. Petition may only be submitted within thirty (30) days after exhausting all remedies available on the Navajo Nation.

- R. Regulations mean these Navajo Nation General Leasing Regulations of 2013.
- S. Secretary means the Secretary of the U.S. Department of the Interior or his or her authorized representative acting under delegated authority.
- T. Significant Impact means a determination that an action will have a significant effect on the quality of the human environment after considering the following:
 - i). effects on public health and safety;
 - ii). effects on the unique characteristics of the geographic areas, including its historic or cultural resources, park lands or ecologically critical areas;
 - iii) highly controversial effects on the human environment;
 - iv). highly uncertain or unknown effects on the human environment;
 - v). effects in terms of precedent for future actions with significant effects;
 - vi). effects that may be individually insignificant, but when considered with other projects, have a significant impact on the environment;
 - vii). effects that cause loss or destruction of scientific, cultural, or historical resources; and
 - viii). effects on endangered or threatened species or habitat protected under Navajo Nation or federal law.
- U. Sublease means a written agreement by which the lessee grants a right of possession no greater than that held by the lessee under the Lease.
 - V. Surety means one who quarantees the performance of another.
- W. Trespass means the unauthorized possession, or occupancy or use of Navajo Nation Trust Land as defined by Navajo Nation or federal law.

10 APPENDIX

Sample Design Matrix

Pineda Chapter CLUPC By-Laws



Appendix B

Flexible Design Matrix

OVERVIEW

capital improvement program, through travel lanes for each need arises. It also forms the basis for Arlington's roadway roadway classification, rightthoroughfare within the City. of-way requirements, design system development as the projected long-term growth comidors for transportation roadway impact fees, and The TDP provides detailed the City to preserve future serves as a tool to enable identifies the location and type of roadway facilities is a long-range plan that developer requirements. Development Plan (TDP) that are needed to meet within the City. The TDP criteria, and number of information related to The Thoroughfare

planning/Transportation.html Full TDP Report available at www.arlingtontx.gov/

Direct questions to: (817) 459-6686

Last updated: 06/22/2011

		Streetside [4] Through Lanes 14			Streetide ⁽¹⁾ Through larne ⁽⁴⁾		Subu Pedestrian Realm	Recommended Streetside Width [1]		Recommended Pedestrian Buffer Width [3] 8 -	Travel Way Roalm	Number of Through Lanes [4]	Target Speed (MPH) 35	Lane Width	Median Width (5)	On-Street Parking Width (6)		Right-of-Way (ROW) (8)	Anticipated Traffic Volumes 50,
Major		Right	Minor	A		Majo	Suburban* Ur	14 - 26 ft 15	4-10# 6-	8-14# 7		4-6	35 - 45 35	11 - 12# 11	16 - 20 # 16	8 - 9# 8	6# 5	120#	20,000 - 15
Major Arterial		Median Right - of - Way	Minor Arterial	-	Medion ^{Pl} Right - of - Way	Major Arterial	Urban* Urban	15-27# 15-	6-12# 6-	7-13# 7-		4-6 4	35 - 45 35	11 - 12# 11 -	16-20# 16-	8 -9# 8	5-6# 5-	120 # 12	15,000 - 15,0
_	o	Пио	_		Through Lanes [4]		Urban Cora*	15-27#	6-12A	7-13#		4-6	35 - 45	11 - 12#	16 - 20 ft	8-9#	5-6#	120# 90	15,000 -
	•	Prough Lanes H		*	3.		Suburban*	9 - 23 #	4-10#	4-12#		2-4	30 - 40	11-12#	0 - 16 A	8-9#	₩9	90 - 100 ft (9)	20,000 -
	**	Street		2	Streatside 11	Minor Arteriol	Urban	11 - 25#	6-14#	4-10#		2 - 4	30 - 40	11 - 12 8	0.16#	8.9#	5.6A	90 - 100 # [9]	10,000 -
the state of	~~~~	Straetside (1;					Urban Care	11 - 25 #	6-16#	4-8#		2 - 4	30 - 40	10 - 12#	0-16A	8-9#	₩9-5	90 - 100 ft [9]	15,000 -
7							Suburban*	9 - 23 #	4-10f	4-12 ft		2 - 4	25 - 35	11 - 12#	0 - 16 ft	8-9#	5-68	70 ft	1,500 -
1		Street			1	Major Collector	Urban*	9 - 25 A	4-14 #	4-10 H		2-4	25 - 35	10 - 12 ft	0 - 16 ft	8-9#	- 49-5	70 ft	1,500 - 25,000
≥ .	*	Sireetside ¹⁷	2]	ST ST	Serutide !!!		Urban Care*	9.25#	4-16#	4-8#		2 - 4	25 - 35	10-12#	0-16#	8-98	5-6#	70 ft	1,500 - 25,000
Major Collector		Through	Minor Collector		Through		Suburban*	#61-6	4-8#	4-10#		2-3	30	11-12#	N/A	8-9#	5-6#	₩ 09	1,500 -
ollect		Through Lanes (4) Right - of - Way	Collect	4-1	Through Lanes 14 Right - of - Way 60'	Minor Collector	Urban*	461-6	4-10#	4-8#		2-3	30	10-12#	N/A	8-98	5-68	# 09	1,500 - 25,000
ō	•	Stree	ō		Streetide H		Urban Care*	9-19#	4-12#	4-6#		2-3	30	10-12#	NA	8-9#	5-6#	40 ft	1,500 - 25,000
Lange	E=	Siraefude ⁽¹⁾			-														

(2) Mithimum widdh requirement for a suburban sidewalk is 4, however 6 is preferred as minimum if 800W permits.
(3) in suburban locations, buffer is typically fitted with landscaping such as grass, while in urban locations buffer can have tree wells.
Buffer includes width needed for the curb.

(if flumber of though) lates for thoroughters are identified on the TDP Map.

(5) Median for 2 lates option and be a thor-yer lift from lates if deelers. It is mediant or center turn lates are possible on minor collectors.

(5) When condition dust beta lates parallel parties and the first man late if selection. An other centers of the lates are beta for the condition of the lates are beta for the condition of the lates are lates for the condition of the lates are lates. It is also that the condition of the lates are lates for the lates are lates for the lates are previously declared right-of-way (ROW) is wider than the current required ROW, additional ROW may be required to it maniform condition and conditional conditions are sufficiently to the narrower noulway cross section.

(5) stor of ROW is required only in specified instances, Eden Rd and Bowen Rd from Sublett to Calender Rd are the only thoroughlares designated as 100 (Eden Pomp for tederals).

Information on context zones (suburban, urban, and urban core) can be found on page 10 of the manual



PINEDALE CHAPTER Community-Based Land-Use Planning Committee

P. O. Box 3 Church Rock, NM 87311 Office: 505-786-2208

Fax: 505-786-2211

BYLAWS

PREAMBLE

The Community-Based Land Use Planning Committee (CLUPC) is established to further the goals and objectives of Pinedale Chapter by finding and acquiring land for development, in order to improve the quality of life for community members.

ARTICLE 1: NAME AND LOCATION

Section 1 - Name:

The name of the organization is: Pinedale Community-Based Land Use Planning Committee.

Section 2 - Location:

The mailing address shall be: Community-Based Land Use Planning Committee

c/o Pinedale Chapter

P. O. Box 3

Church Rock, NM 87311

The e-mail address shall be: Pinedale@navajochapters.org

ARTICLE 2: AUTHORIZATION

Pinedale Community-Based Land Use Planning Committee (CLUPC) was established by majority vote of Chapter membership in accordance with Navajo Nation Code, Title 26, Local Governance Act of 1998, Section 2004, 3(a).

ARTICLE 3: PURPOSE

The Community-Based Land Use Planning Committee was formally established by Pinedale Resolution No. PDC-03-13-092, to research, classify, and prepare zoning districts; to outline and formulate land use plans; and to implement development of land and buildings without impacting habitat and environmental conservation policies.

ARTICLE 4: OBJECTIVES

The committee objectives are: (1) To study, compile, assemble, and consolidate documents and material to revise and produce a new land use plan; (2) To plan efficient and economical infrastructure; develop plans and withdraw lands for agriculture, economic development, and community and urban development. (3) Address unmet needs of the community for social mobility and raising the standard of living.

ARTICLE 5: MEMBERSHIP

Section 1 - Membership:

A member of Community-Based Land Use Planning Committee shall be a registered voting member of Pinedale. The member is required to own and operate a motor vehicle and have a valid driver's license. He or she shall not be currently under disciplinary review or probationary status for disciplinary reasons; and must have paid all necessary dues and conformed to the requirements as set forth in this bylaw. Because CLUPC requires a member's undivided dedication, intense concentration, and attention to CLUPC tasks, he or she may not be a fulltime employee of another organization as it conflicts with meeting schedules, work assignments, teamwork and deadlines. It also disrupts emergency and special meetings.

Section 2 - Documentation:

For CLUP Committee membership, interested individuals must submit a "Letter of Interest" to the Chapter for records and files. The records will be under strict confidence. "Section 2 – Documentation": is in keeping with "Section 1 – Membership": which says a fulltime employee's employment conflicts with or disrupts scheduling, assignments, teamwork, deadlines, emergency, and special meetings.

Section 3 - Contact:

Committee member addresses, telephone numbers, and e-mail Addresses shall be kept on file in the Office of the Community Services Coordinator for contact purposes. Each member shall keep their cell-phone numbers and email addresses up-to-date and inform fellow members of any changes. For fast and efficient communications, all members shall provide and maintain current phone numbers and e-mail addresses.

Section 4 - Good Standing:

All members shall be of good character and in good standing with the Chapter Officials, the community, and colleagues.

Section 5 - Work Conduct:

All members must connect one another with complementary skills in order to function cooperatively. Each member must conduct him/herself with an attitude of hard work and teamwork; exhibit good work ethics; be successoriented, honest, and self-motivated.

ARTICLE 6: OFFICERS

Section 1 - Elected Officers:

To apply for CLUPC membership, all interested persons shall submit a "letter of Interest" to the Chapter. Committee members will be chosen by majority vote of Chapter constituents. Committee Officers shall be nominated and voted-on by CLUPC members. If a current active member chooses to continue Committee Membership, he or she must reapply with a new "Letter of Interest". The Officers shall consist of a President, Vice-President, and Secretary/ Treasurer.

Section 2 - Eligibility:

All Chapter members in good standing are eligible to be nominated and elected as CLUPC committee members.

Section 3 - Nomination:

For majority rule and breaking a tie vote, an odd numbered committee membership is desirable for CLUPC.

Selection of new Land Use Planning Committee shall be conducted in the month of September. The newly selected members shall start on October one (1) following selection. Two months before selection, starting July 1 and ending on the deadline date of August 31, interested individuals may begin submitting "Letters of Interest". The list of interested applicants with an accompanying CL UPC Budget and a Budget Justification will be presented to the Chapter for approval by the community. The new committee members shall begin their duties on October 1, the start of a new Fiscal Year.

Section 4 - Term of Office:

Election of new CLUPC members shall occur every four (4) years. Each member serving a term of 4 years will begin on October 1. The out-going officers who vacate their duties and responsibilities will give all files, records, and property to their successors.

Section 5 - Voluntary Resignation:

A member of CLUPC may resign for any reason giving a date and reason for resignation in written form. The officers of the committee may consent without further action. Should an elected officer voluntarily vacate his/her position before his/her term expires, the Committee President shall fill the gap until the vacancy is filled. A new committee officer shall be elected within thirty (30) days after vacancy. If there is no candidate to fill the vacant position, the President may review the original applicant panel and approach the next qualified person on the list. If there's no consent, he or she will continue down the list until position is filled. If there are no interested applicants, the President may recommend a qualified community member. If the President appoints someone he or she deems qualified, the prospective member will be subject to ratification by Chapter membership. An officer may not otherwise hold more than one position within the organization.

Section 6 - Removal:

The CLUP Committee may also permit a resignation in lieu of removal from office. Members who fail without just cause to attend three consecutive Land Use Planning meetings, regardless of whether such meetings are regular or special meetings, shall be deemed to have abandoned their office. CLUPC may remove an elected officer for reasons deemed legitimate, or beyond their control. The removal should be supported by a two-thirds vote of the membership and documented.

ROTATION OF OFFICIAL POSITION(S): Service as a Land Use Planning Committee member is a privilege, not a right, the purpose of which is to assist the committee in conducting its business in an appropriate, orderly and efficient manner. Therefore, a decision that there is cause for change of a committee members' official position(s), due to failing to work with fellow board members, and not giving time and effort to work to ensure quality leadership, communication, and devotion to land use planning, shall be cause for removal of the injurious officer from their current position as holder of a committee office, and will be rotated to another position within the committee leadership by a majority vote of board members. A vote to rotate a committee officer shall only take place within the seats held by the officers at a regular meeting or executive session called for that purpose. "Cause" includes, but is not limited to, any conduct that:

- 1. Affects the administration of the office in a manner deemed to be harmful to Board operations;
- 2. Negatively and directly affects the rights and interests of Chapter membership, chapter staff, or Chapter officers;

The Committee members and the public will be notified of a planned meeting one (1) week in advance of the meeting. Notification shall be made by phone, radio, email, flyers, or word-of-mouth.

Section 3 - Chapter Usage:

As a matter of courtesy and because CLUP Committee is a Branch of the Chapter as community planners and liaison, costs for use of the Chapter House, tables, chairs, white board, restrooms, and kitchen is waived by Chapter Administration. Prior arrangements shall be made with Chapter Administration to use the Chapter House and to assign a janitor, or clean-up person, to clean the meeting room after the room is vacated.

Section 4 - Quorum:

- 1. Prior to conducting an official meeting, a quorum of 3 or more committee members, with voting rights, shall be present. If a quorum is not present, the meeting shall be cancelled and rescheduled, and all members notified.
- 2. Each meeting agenda shall be as follows:
 - 1. Meeting called to order
 - 2. Invocation
 - 3. Roll Call
 - 4. Recognition of Guests
 - 5. Review and Adopt agenda
 - 6. Reading of Minutes
 - 7. New Business
 - 8. Old Business
 - 9. Decisions/Assignments
 - 10. Announcements
 - 11. Next Meeting Date
 - 12. Adjournment

ARTICLE 9 - COMPENSATION

Section 1 - Compensation:

The Committee Officers may be compensated for their services by resolution of the Land Use Planning Committee for Chapter concurrence. A fixed sum of \$75 shall apply to each regular meeting, to be paid to each member who attends a meeting, votes on issues, and whose action has been recorded on the Minutes. A fixed sum of \$50 shall apply to each Special Meeting to be conducted only in the event of unforeseen circumstances which require immediate action. A letter or statement of justification shall accompany the request.

Section 2 - Compensation to Representative(s):

Representatives are individuals who are appointed by the President or chosen by two-thirds vote of Committee members, to perform a certain task or service for the CLUP Committee in the event the committee members are not available or unable to perform the duties/tasks delegated to the representative. The delegation of tasks shall be approved by two-thirds vote of the committee and shall be justified in writing by the committee President. A fixed sum of \$30 shall be paid to each representative for his/her service.

ARTICLE 10 - BUDGET

All books and records shall be kept current and complete for each meeting or reporting period by the Committee Secretary/Treasurer. All budget and finance records shall be subject to review and approval by the Chapter Administration, Chapter Officials, or any Department or individual having oversight of the CLUP Committee activities. An annual budget which lists all applicable stipends, research material, supplies, travel, and training as line items shall be submitted to the Chapter with attachments and a Resolution to be negotiated and approved.

ARTICLE 11 - AMENDMENTS

It is understood that these Bylaws will remain effective so long as it is agreed upon by Committee Members and all parties involved. An amendment may be incorporated as deemed necessary and recommended to the Pinedale Committee Members at a duly called regular or special meeting of the Community-Based Land Use Planning Committee. All amendments shall be reviewed by Pinedale Chapter Officials with Administrative personnel, or those who have oversight of land use planning committee.

ARTICLE 12 - CODE OF CONDUCT

The Pinedale Community-Based Land Use Planning Committee is formed to meet monthly to serve the Community of Pinedale and its constituents. The Committee is formed to assist with meeting the unmet needs of the community pertinent to land acquisition, infrastructure development, social and economic improvement, and community beautification. As members who carry-out these duties and responsibilities, it is incumbent on each Committee Member to be alcohol and drug-free; to be ready and willing to participate in all meetings and activities maturely and responsibly; to be positive, productive and constructive; and to exhibit professionalism to the highest degree at all levels and always. Any talk or act of disrespect will not be tolerated and shall be discouraged at all meetings, functions, or recreation.

ARTICLE 13 - DISSOLUTION

The Pinedale Community-Based Land Use Planning Community may be dissolved after all required duties, responsibilities, functions or any just cause deemed necessary. The committee may be dissolved by majority vote of Committee Members. Upon dissolution, all records, assets, liabilities, and obligations shall be distributed to Pinedale Chapter, who, in turn and by written mandate, will discharge them to those organizations deemed qualified under the Navajo Nation laws.

ARTICLE - CERTIFICATION

	Bylaws were review, considere		t a duly called meeting of the quorum was present and the sar	me
was passed by a vote of	_ members in favor; o	pposed; and		lay of
, 2018.	-			
	1			
Willie Norton, President	Joan Miller, Vice-Pres	ident	Louise Mariano, Secretary/Treas	urer

11 DISTRICT SERVICE PLAN

The Pinedale Chapter District Service Plan is a comprehensive plan addressing: Local rural addressing, regional district information and community-wide road network improvement.

This plan will be completed after CLUPC manual has been approved and certified. There have previous projects on compiling rural address data throughout the community. Attached is a 2010 Pinedale Chapter Rural Address worksheet as completed by former Pinedale Chapter CLUPC member Ruby Tsosie.



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	5/17/2010 *Stereo Tensie Marie Charley	PO Box	1001 Church Rock NM 87311	/50£) 507.808/	750	4.05mi NW on Lobo Valley Road	Framed House	Page 4 of Page 4 of	4
	Veronic			(505) 979-2098	950		ailer	Gray Trailer	
	Theodore Livingston		Church Rock NM 87	(505) 979-0900	57			Dark Brown Roof Beige House	
	Theodore Livingston Theodore Livingston	PO Box	1130 Church Rock NM 87311 1130 Church Rock NM 87311	(505) 979-0900	57B 57C	1.25mi NW on Lobo Valley Road			
	*Robert Livingston D	PO Box			5		ailer	White Trailer	
	Allison Livingston		1171 Church Rock NM 87	(505) 786-7842	59A	1.25mi NW on Lobo Valley Road	Framed House	Brown Roof Ply Board House	
	Fabian/Jolene Manygoats	ă ă	TIVE CHARGE ROCK INM 8/311	(505) 786-5565	980	1.25mii NW on Lobo Valley Road	ailer	White Trailer	
	Haniey Manygoats		1171 Church Rock NM 87311	(505) 786-7842	56	1.25mi NW on Lobo Valley Road		Gray Roof Tan House with Porch	
	Ben & Inez Morgan 🔊	PO Box	Church Rock NM 87	(505) 786-5016	28A	1mi W on Lobo Valley Road	Framed House	Gray Roof Beige House	
(PO Box	Church Rock NM 87	(505) 786-5016	28B	1mi W on Lobo Valley Road	Hogan	Red Roof Light Brown Hogan	
9	Stepnen/Katnleen King Joe Louie	PO 80x	839 Church Rock NM 87311	(505) 879-8340	7 4	1mi w on Lobo Valley Road 1mi W on Lobo Valley Road	Single Wide Trailer	brown roof green house White Trailer Peach Trimming	
				(3		SECURIO SANGOS			
	Doris A. Begay		987 Church Rock NM 87311		391A	.5mi N of N11-49 Highway	Framed House		
	Matilda Begay		6078 Gallup, NM 87301	(505) 728-5493	391B	.5mi N of N11-49 Highway	Hogan	Brown Roof Gray Stucco Hogan	
	Dennison Begay	PO Box	A STATE OF THE STA	7111 070 (101)	393A	5mi N of N11-49 Highway	Hogan	Brown Roof Gray Stucco Hogan	
<	Politip Livingston		393 Church Rock NM 8/311	(505) 240-7771	3030	Sent of N11-49 Highway	Hogan Eramed House	Green Roof Gray Studen hogan Brown Roof Raine House	
>		PO 50	1252 Church Rock NM 87	(505) 979-2084	349C		Framed House	Vanilla House w/ Brown Trimming Ramp	
	Francis Price	PO Box	1252	(505) 379-8008	- 351A		Framed House	Green Roof Brown Stucco House	
	Roger Becenti	PO Box	1252		351B	2.5mi W of Pinedale Chapter House	Hogan	Brown Roof Brown Hogan	
	Roger Becenti	PO Box			351C	2.5mi W of Pinedale Chapter House	Hogan	Red Roof Brown Hogan	
	Vera Jones	PO Box	604 Gallup, NM 87301	(505) 879-4403	353	2.5mi W of Pinedale Chapter House	Hogan	Brown Roof Plyboard Hogan	
	Melba Becenti				ς497 α	2.5mi W of Pinedale Chapter House	NHA House	Blue Light Blue Hallel Brown Roof Brown House	
	Joanne Becenti	9 S	366 Church Rock NM 87311	(505) 701-1212	321 'A	2.5mi W of Pinedale Chapter House	Framed House	Brown Roof Peach House	
	Joanne Becenti	PO Box		(505) 701-1212	321B	2.5mi W of Pinedale Chapter House	Framed House	Gray Roof Gray House	
	Joanne Becenti	PO Box	366	(505) 701-1212	321C	2.5mi W of Pinedale Chapter House	Framed House	Brown Roof Brown House	
0		PO Box			317A	2.5mi W of Pinedale Chapter House	Framed House	Brown Roof Yellow House	
	Patrick Begay	PO Box	1313 Church Rock NM 87311		317B		Framed House	Red Roof Beige House	
	***********			1 80 263 267 2 86 2 86 2 86					
Ø	-	PO Box	438 Church Rock NM 87311	0460 503 0450	9	3mi W of Pinedale Chapter House	Framed House	Brown Roof Peach House w/Porch	
	Darlene Grey			(505) 567-8158	2014	3mi W of Pinedale Chapter House	Hodan	Brown Roof Red Honan Stone Endation	
	Darlene Grev	P 0	450 Church Rock NM 87		2018	3mi W of Pinedale Chanter House	Framed House	Green Roof Gray Stucco House	
	Nellie Thompson	PO Box	1291 Church Rock NM 87	(505) 879-1558	197	3mi W of Pinedale Chapter House	Hogan	Gray Roof Brown Stucco Hogan	
	Lagina Thompson	PO Box	1291 Church Rock NM 87	(505) 879-1558		3mi W of Pinedale Chapter House	Single Wide Trailer		
	Erik Grey	PO Box	1263 Church Rock NM 87311		195	3mi W of Pinedale Chapter House	Framed House		
	Timothy Thompson	PO Box	Gallup, NM 87301	(505) 726-3036		3mi W of Pinedale Chapter House	Framed House		
	Roy Edison, Sr	PO Box	901 Church Rock NM 87		101A	3.5mi W of Pinedale Chapter House	Single Wide Trailer	Vanilla Trailer Grey Roof	
	Roy Edison, St	FO BOX	08		1 8	Somi woor Pinedale Chapter house	riallied nouse	Gray Roof Gray House	
	Dennette Largo	PO Box	723 Church Rock NM 87311	(505) 870-5748	21	3.5mi W of Pinedale Chapter House	Framed House	Gray Roof Faded Purple 2 Story House	
	Devin Largo	PO Box	686	(505) 870-9989	19B	3.5mi W of Pinedale Chapter House	Single Wide Trailer		
	Daniel & Betty Largo	PO Box	154 Church Rock NM 87	(505) 862-1106	19C	3.5mi W of Pinedale Chapter House	Hogan	Gray Roof Grey Hogan	
	Francis Largo	PO Box	872 Church Rock NM 87	(505) 713-6379	917	3.5mi W of Pinedale Chapter House	Hogan	Gray Stucco Hogan w/ 2 Additions	
	Francis Largo	20.00	8/2	(505) 713-6379	9108	3.5mi W of Pinedale Chapter House	Framed House	Gray Roof Pryboard House	
	Gazy Jamo Sr			(505) 713-6379	9100	3.5mi W of Pinedale Charles House	Framed House	Brown Roof Plyhoard House	
	Galvison Largo	PO 80	367	(505) 905-4510	912B	3.5mi W of Pinedale Chapter House		Orange Hogan	
	Gary Largo, Sr	PO Box	367 Church Rock NM 8	(505) 905-4510	912C	3.5mi W of Pinedale Chapter House		Brown Roof Gray Stucco House	
	Ned Yazzie	PO Box	986	(505) 905-7961	606	4mi NW of Pinedale Chapter House	e Framed House	Brown Roof Gray Stucco House	
	Ned Yazzie	PO Box	986 Church Rock NM 8/	(505) 905-7961		4mi NW of Pinedale Chapter House	e hogan	Red Roof Black Hogan	
	Lisa & Larry benarity Tommy & Mangie Nachin	PO BOX	163 Church Rock NM 87311	(505) 905-0010	9118 8118	4mi NW of Pinedale Chapter House Single	e nogan e Single Wide Trailer	Ned Nool beinge nogali White Trailer	
	*Jerry Nachin	PO Box			!	4mi NW of Pinedale Chapter House	e Single Wide Trailer		
	Eugene Joe	PO Box	462 Church Rock NM 8		i	4mi NW of Pinedale Chapter House Framed House	e Framed House	Gray Roof Light Blue House	
	Judy King	PO Box	36 Church Book NM 87311		25	4mi NW of Pinedale Chapter House Framed House	e Framed House	Gray House	
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	64C	Old Church Rock Mine Road 1mi Old Church Rock Mine Road 1mi Old Church Rock Mine Road	Framed House	White Roof Gray Stucco House
(505) 713-8633 (505) 906-4275	84A 84A	Old Church	Hogan Hogan	White Roof White Hogan Brown Roof Beige Hogan Brown Trim
	100A	Old Church Rock	Framed House	Green root beige nouse Pink House With White Trim
(505) 8/9-0323	100D 100D	Old Church Rock	Framed House	Red Roof Pink House Black Roof Yellow/Gray House
(505) 862-2008	100E	1mi Old Church Rock Mine Road	Framed House	Brown Roof Maroon House
	102B	1mi Old Church Rock Mine Road	Framed House	White Roof Dark Blue House
(623) 521-8984	102C 106	1mi Old Church Rock Mine Road	Hogan Framed House	Gray Roof Beige Hogan Brown Roof Gray House
Ē	RSTCAN	WOW		
(505) 409-0983		First Canyon Road	Single Wide Trailer	
0218-952 (506)	3	First Canyon Road First Canyon Road	Hogan	White Roof White Hogan
(505) 870-0138	106	First Canyon Road	Framed House	Brown Roof Yellow House
(505) 870-9110	101 80	First Canyon Road	Framed House	Brown Roof Red House Green Roof Green House
(170 700 (000)	3	First Canyon Road	Single Wide Trailer	
0700 070 (303)	102	First Canyon Road	Framed House	White Roof Rust House
6170-619 (cnc)	88C	First Canyon Road	Framed House	Brown Roof Black House
	88A	First Canyon Road	NHA House	White Roof Gray House
	88B	First Canyon Road	NHA House Single Wide Trailer	Brown Roof Yellow House
		First Canyon Road	Single Wide Trailer	
(505) 862-3217	06	First Canyon Road	Framed House	Brown Roof Orange Trailer
(505) 863-4369	68B	First Canyon Road	Hogan	Green Roof
(505) 863-4369	680	First Canyon Road	Framed House	Brown Roof Gray House
80	100	N11-49	rialited nouse	BIOWII KOOI FIIIN HOUSE
(505) 979-8355	120C	1/4mi S of Hwy N11-49	Framed House	Brown Roof Brown House
(505) 979-8355	250A	1/4mi S of Hwy N11-49	Hogan	Black Roof Gray House
(505) 979-8355	250B	1/4mi S of Hwy N11-49	Framed House Single Wide Trailer	Green Roof Gray House Silver Roof White Trailer
	360E		Single Wide Trailer	
	360A		Hogan	
	3600		Single Wide Trailer	Provide Roof Beige Trailer
	350A		Framed House	Brown Roof Yellow Cream House
	280A		Framed House	
	280B		Single Wide Trailer	
	280E		Framed House Single Wide Trailer	Gray Koof Green House r Silver Roof Beine Trailer
	302B		Single Wide Trailer	
	304		Hogan	
	302A		Single Wide Trailer	
	300D	1/4mi S of Hwy N1149	Framed House	Brown Roof Cream House
	300B	1/4mi S of Hwy N11-49	Framed House	Brown Roof Light Yellow House
	300E	1/4mi S of Hwy N11-49	Framed House	
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		1/4mi S of Hwy N11-49	Framed House	Brown Roof Pinkish House
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S/17/2010 Jeabelle Curley Marie Linda d' Willimer Curley Rose Lee Yazzie Frank & Susie Arviso Francia Elegay Julia Begay Julia Begay Julia Begay Julia Begay Julia Begay Julia Begay Francia Platero Leona Begaye Victor Lewis Patricia Platero Leona Begaye Victor Lewis Francia Platero Francia Lewis Priscilla Lewis Priscilla Lewis Priscilla Lewis Priscilla Lewis Priscilla Lewis Francia Zuni Sarah Zuni Francis Zuni Francis Zuni	Francis Zuni United Methodist Church United Methodist Church United Methodist Church Emma Yazzie Lita Bah Antonio Virginia Lee Anita Francisco Hank Antonio Rena Antonio Rena Antonio Rena Antonio Lita Y. Antonio Bennie Jaye Bennie Jaye Bennie Jaye Bennie Jaye Bennie Jaye James S. Billy Emest Lewis Emest Lewis Emest Lewis Emest Lewis Emest Lewis Laurel Felson Villie Norton Villie Norton Willie Norton Willie Norton Bernice Bernrett Janice Bernre

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NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource
Report for
McKinley County Area, New
Mexico, McKinley County
and Parts of Cibola and San
Juan Counties



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

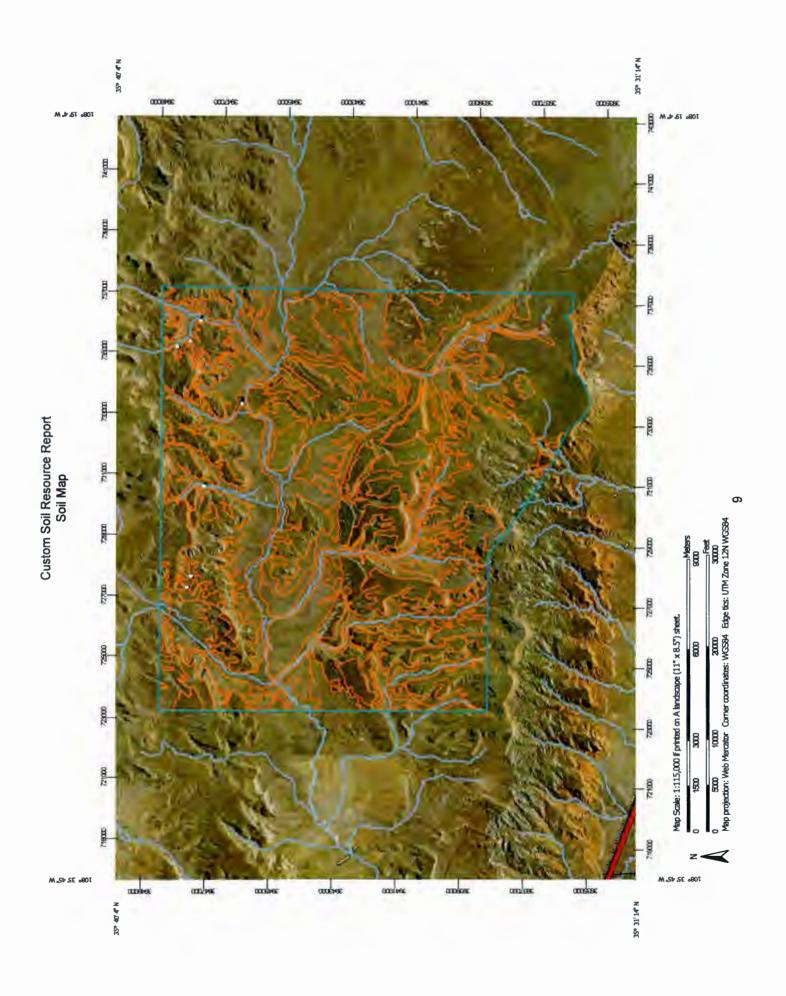
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



Soil Survey Area: McKinley County Area, New Mexico, McKinley County and Parts of Cibola and San Juan Counties Date(s) aerial images were photographed: Apr 13, 2011—Mar 3, This product is generated from the USDA-NRCS certified data as distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more Maps from the Web Soil Survey are based on the Web Mercator The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background projection, which preserves direction and shape but distorts Soil map units are labeled (as space allows) for map scales imagery displayed on these maps. As a result, some minor Source of Map: Natural Resources Conservation Service The soil surveys that comprise your AOI were mapped at Please rely on the bar scale on each map sheet for map accurate calculations of distance or area are required. Coordinate System: Web Mercator (EPSG:3857) MAP INFORMATION shifting of map unit boundaries may be evident. Survey Area Data: Version 12, Sep 13, 2017 of the version date(s) listed below. Web Soil Survey URL: 1:50,000 or larger. measurements. 1:24,000. Special Line Features Streams and Canals Interstate Highways Aerial Photography Very Stony Spot Major Roads Local Roads Stony Spot US Routes Spoil Area Wet Spot Other Rails **Water Features Fransportation** Background MAP LEGEND W 8 Q 4 ŧ Soil Map Unit Polygons Severely Eroded Spot Area of Interest (AOI) Miscellaneous Water Soil Map Unit Points Soil Map Unit Lines Closed Depression Marsh or swamp Perennial Water Mine or Quarry Rock Outcrop Special Point Features **Gravelly Spot** Sandy Spot Slide or Slip Saline Spot **Borrow Pit** Lava Flow Sodic Spot **Gravel Pit** Clay Spot Area of Interest (AOI) Sinkhole Blowout Landfill 9 Soils

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
230	Sparank-San Mateo-Zia complex, 0 to 3 percent slopes	2,483.9	6.2%
241	Mentmore loam, 1 to 8 percent slopes	4,505.7	11.3%
242	Gish-Mentmore complex, 1 to 8 percent slopes	1,810.1	4.5%
244	Buckle fine sandy loam, 1 to 8 percent slopes	1,579.7	4.0%
245	Buckle-Gapmesa-Barboncito complex, 1 to 6 percent slopes	584.1	1.5%
258	Eagleye-Atchee-Rock outcrop complex, 2 to 35 percent slopes	2.5	0.0%
265	Uranium mined lands	512.3	1.3%
290	Rock outcrop-Westmion- Skyvillage complex, 30 to 80 percent slopes	3,019.3	7.6%
291	Rock outcrop-Eagleye-Atchee complex, 35 to 70 percent slopes	2,439.6	6.1%
305	Celavar-Atarque complex, 1 to 8 percent slopes	1,385.7	3.5%
310	Parkelei sandy loam, 1 to 8 percent slopes	111.3	0.3%
315	Flugle-Fragua complex, 1 to 10 percent slopes	1,712.0	4.3%
317	Highdye-Evpark-Bryway complex, 2 to 20 percent slopes	0.0	0.0%
320	Parkelei-Fraguni complex, 1 to 8 percent slopes	461.8	1.2%
332	Evpark-Arabrab complex, 2 to 6 percent slopes	1,763.5	4.4%
338	Zyme-Lockerby association, 5 to 35 percent slopes	3,252.2	8.1%
350	Toldohn-Vessilla-Rock outcrop complex, 8 to 35 percent slopes	7,995.9	20.0%
351	Rock outcrop-Vessilla complex, 35 to 70 percent slopes	590.7	1.5%
352	Zia sandy loam, 1 to 5 percent slopes	532.2	1.3%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
355	Rizno-Tekapo-Rock outcrop complex, 2 to 45 percent slopes	32.2	0.1%
360	Hosta-Concho association, 0 to 5 percent slopes	245.4	0.6%
365	Vessilla-Rock outcrop complex, 2 to 15 percent slopes	1,893.7	4.7%
375	Todest-Shadilto complex, 2 to 8 percent slopes	2,447.5	6.1%
380	Berryhill-Casamero clays, 2 to 10 percent slopes	97.8	0.2%
404	Rock outcrop-Techado-Stozuni complex, 5 to 60 percent slopes	312.1	0.8%
555	Parkelei-Evpark fine sandy loams, 2 to 8 percent slopes	161.6	0.4%
Totals for Area of Interest		39,932.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it

was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An undifferentiated group is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

McKinley County Area, New Mexico, McKinley County and Parts of Cibola and San Juan Counties

230—Sparank-San Mateo-Zia complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1xk8 Elevation: 6,300 to 6,900 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 49 to 54 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Sparank and similar soils: 40 percent San mateo and similar soils: 35 percent

Zia and similar soils: 20 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sparank

Setting

Landform: Flood plains on valley floors, valley sides

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Linear, concave Across-slope shape: Linear, concave

Parent material: Stream alluvium derived from calcareous sandstone

Typical profile

A - 0 to 2 inches: silty clay loam C1 - 2 to 25 inches: clay C2 - 25 to 65 inches: clay

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01

to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Frequent Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0

Available water storage in profile: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: D

Ecological site: Clayey Bottomland (R035XA119NM)

Hydric soil rating: No

Description of San Mateo

Setting

Landform: Valley sides, valley floors on flood plains

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Concave, linear Across-slope shape: Concave, linear

Parent material: Stream alluvium derived from calcareous sandstone

Typical profile

A - 0 to 2 inches: clay loam
C1 - 2 to 15 inches: clay loam

C2 - 15 to 30 inches: sandy clay loam C3 - 30 to 39 inches: clay loam C4 - 39 to 45 inches: sandy loam C5 - 45 to 65 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Frequent Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Bottomland (R035XA118NM)

Hydric soil rating: No

Description of Zia

Setting

Landform: Alluvial fans on valley sides, stream terraces on valley floors

Landform position (three-dimensional): Side slope, tread, rise

Down-slope shape: Linear, concave Across-slope shape: Linear, concave

Parent material: Eolian deposits over fan and stream alluvium derived from calcareous sandstone

Typical profile

A - 0 to 3 inches: fine sandy loam
Bw - 3 to 12 inches: fine sandy loam
2C1 - 12 to 20 inches: fine sandy loam
2C2 - 20 to 28 inches: sandy loam
2C3 - 28 to 70 inches: fine sandy loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: A

Ecological site: Sandy (R035XA113NM)

Hydric soil rating: No

Minor Components

Penistaia

Percent of map unit: 2 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null 13)

Hydric soil rating: No

Querencia

Percent of map unit: 2 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Escawetter

Percent of map unit: 1 percent

Landform: Flood plains

Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy Bottom 6-10" p.z. Perennial (Provisional) (R035XB273AZ)

Hydric soil rating: Yes

241—Mentmore loam, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xn9 Elevation: 6,100 to 6,900 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 45 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Mentmore and similar soils: 85 percent Atrac and similar soils: 10 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mentmore

Setting

Landform: Drainageways, fan remnants on valley sides, dip slopes on cuestas

Landform position (three-dimensional): Side slope, tread, dip

Down-slope shape: Linear, convex, concave Across-slope shape: Convex, concave

Parent material: Fan and slope alluvium derived from sandstone and shale

Typical profile

A - 0 to 1 inches: loam

Bt1 - 1 to 2 inches: clay loam

Bt2 - 2 to 7 inches: sandy clay loam

Btk1 - 7 to 13 inches: clay loam

Btk2 - 13 to 22 inches: clay loam

Bk - 22 to 70 inches: clay loam

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 11.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Description of Atrac

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Interpretive groups

Land capability classification (irrigated): None specified

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Minor Components

Gish

Percent of map unit: 5 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

242—Gish-Mentmore complex, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xnc Elevation: 6,100 to 7,200 feet

Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Gish and similar soils: 45 percent Mentmore and similar soils: 35 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gish

Setting

Landform: Alluvial fans on valley sides, drainageways

Landform position (three-dimensional): Side slope, rise, dip

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave, convex Parent material: Fan alluvium derived from shale

Typical profile

A - 0 to 3 inches: clay loam
Bw - 3 to 13 inches: clay
Bky1 - 13 to 27 inches: clay
Bky2 - 27 to 55 inches: clay
Bky3 - 55 to 64 inches: clay loam
Bky4 - 64 to 70 inches: clay

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: High (about 9.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Description of Mentmore

Setting

Landform: Fan remnants on valley sides

Landform position (three-dimensional): Side slope, tread

Down-slope shape: Convex, concave Across-slope shape: Convex, concave

Parent material: Fan and slope alluvium derived from sandstone and shale

Typical profile

A - 0 to 2 inches: fine sandy loam
Bw - 2 to 4 inches: clay loam
Bt1 - 4 to 13 inches: clay loam
Bt2 - 13 to 24 inches: clay loam
Bk1 - 24 to 44 inches: clay loam

Bk2 - 44 to 62 inches: clay loam By - 62 to 70 inches: clay loam

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Minor Components

Berryhill

Percent of map unit: 10 percent

Ecological site: Clayey (R036XB002NM)

Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

Nahodish

Percent of map unit: 10 percent

Ecological site: Salty Bottomland (R036XB010NM)

Other vegetative classification: SALTY BOTTOMLAND (null_27)

Hydric soil rating: No

244—Buckle fine sandy loam, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xn3 Elevation: 6,400 to 6,800 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 45 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Buckle and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Buckle

Setting

Landform: Drainageways, fan remnants on valley sides Landform position (three-dimensional): Side slope, tread, dip

Down-slope shape: Concave, linear, convex Across-slope shape: Concave, convex

Parent material: Eolian deposits over fan and slope alluvium derived from

sandstone and shale

Typical profile

A - 0 to 4 inches: fine sandy loam

Bt1 - 4 to 14 inches: sandy clay loam

Bt2 - 14 to 22 inches: sandy clay loam

Btk1 - 22 to 34 inches: loam Btk2 - 34 to 48 inches: clay loam Btk3 - 48 to 62 inches: clay loam Btk4 - 62 to 75 inches: clay loam

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Minor Components

Gapmesa

Percent of map unit: 10 percent Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Zia

Percent of map unit: 5 percent

Ecological site: Sandy (R035XA113NM)

Other vegetative classification: Sandy (null_29)

Hydric soil rating: No

245—Buckle-Gapmesa-Barboncito complex, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: 1xn4 Elevation: 6,400 to 6,800 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 45 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Buckle and similar soils: 35 percent Gapmesa and similar soils: 30 percent Barboncito and similar soils: 25 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Buckle

Setting

Landform: Hills, ridges, dip slopes on cuestas

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Crest, nose slope, side slope, head slope

Down-slope shape: Convex

Across-slope shape: Convex, concave

Parent material: Eolian deposits over fan and slope alluvium derived from

sandstone and shale

Typical profile

A - 0 to 1 inches: loamy fine sand Bt1 - 1 to 7 inches: clay loam

Bt2 · 7 to 25 inches: sandy clay loam
Btk - 25 to 35 inches: clay loam
Bk - 35 to 80 inches: fine sandy loam

Properties and qualities

Slope: 1 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 9.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Description of Gapmesa

Setting

Landform: Ridges, dip slopes on cuestas, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex

Across-slope shape: Convex, concave

Parent material: Eolian deposits over alluvium derived from sandstone and shale

Typical profile

A - 0 to 1 inches: fine sandy loam

Bt - 1 to 9 inches: loam
Btk1 - 9 to 20 inches: loam
Btk2 - 20 to 31 inches: clay loam
R - 31 to 40 inches: bedrock

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Description of Barboncito

Setting

Landform: Ridges, dip slopes on cuestas, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex

Across-slope shape: Convex, concave

Parent material: Eolian deposits over slope alluvium derived from sandstone and

Typical profile

A - 0 to 2 inches: loamy fine sand Bt - 2 to 6 inches: sandy clay loam Btk - 6 to 11 inches: clay loam R - 11 to 20 inches: bedrock

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Minor Components

Betonnie

Percent of map unit: 5 percent

Ecological site: Sandy (R035XA113NM)

Other vegetative classification: Sandy (null_29)

Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

258—Eagleve-Atchee-Rock outcrop complex, 2 to 35 percent slopes

Map Unit Setting

National map unit symbol: 1xnd Elevation: 6,500 to 7,000 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Eagleye and similar soils: 40 percent Atchee and similar soils: 35 percent

Rock outcrop: 20 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eagleye

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Slope alluvium over residuum weathered from shale

Typical profile

A - 0 to 2 inches: gravelly clay loam

Cy - 2 to 10 inches: clay Cr - 10 to 20 inches: bedrock

Properties and qualities

Slope: 5 to 35 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 1.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Description of Atchee

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Slope alluvium over residuum weathered from sandstone and

shale

Typical profile

A - 0 to 2 inches: fine sandy loam

C1 - 2 to 12 inches: extremely channery sandy clay loam C2 - 12 to 14 inches: extremely channery sandy clay loam

R - 14 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 10 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8s

Hydric soil rating: No

Minor Components

Lockerby

Percent of map unit: 3 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

Barboncito

Percent of map unit: 2 percent

Ecological site: Loamy (R035XA112NM)
Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

265—Uranium mined lands

Map Unit Composition

Uranium mined lands: 95 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Uranium Mined Lands

Typical profile

C - 0 to 60 inches: variable

290—Rock outcrop-Westmion-Skyvillage complex, 30 to 80 percent slopes

Map Unit Setting

National map unit symbol: 1xkk Elevation: 6,400 to 8,100 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 49 to 54 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Rock outcrop: 45 percent

Westmion and similar soils: 30 percent

Skyvillage and similar soils: 15 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Westmion

Setting

Landform: Escarpments on cuestas, escarpments on mesas Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Linear, convex

Parent material: Slope alluvium and colluvium over residuum weathered from

shale

Typical profile

A - 0 to 2 inches: gravelly clay loam

2C - 2 to 14 inches: clay 2Cr - 14 to 20 inches: bedrock

Properties and qualities

Slope: 30 to 50 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0

Available water storage in profile: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Foothills (R035XA131NM)

Hydric soil rating: No

Description of Skyvillage

Settina

Landform: Escarpments on cuestas, escarpments on mesas Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear

Parent material: Eolian deposits over slope alluvium derived from sandstone

Typical profile

A - 0 to 2 inches: sandy loam
C - 2 to 13 inches: sandy loam
R - 13 to 20 inches: bedrock

Properties and qualities

Slope: 30 to 40 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 1.6 inches)

Interpretive groups

Land capability classification (imigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Shallow Sandstone (R035XG121NM)

Hydric soil rating: No

Minor Components

Hospah

Percent of map unit: 6 percent

Ecological site: Shale Hills 10-14"p.z. (Provisional) (R035XA130NM)

Other vegetative classification: Shale Hills (null_35)

Hydric soil rating: No

Vessilla

Percent of map unit: 2 percent

Ecological site: Sandy Upland 13-17" p.z. Moderately Deep (R035XF618AZ)

Other vegetative classification: Shallow Sandstone (null_37)

Hydric soil rating: No

Skyvillage

Percent of map unit: 2 percent

Ecological site: Shallow Sandstone (R035XG121NM)

Hydric soil rating: No

291—Rock outcrop-Eagleye-Atchee complex, 35 to 70 percent slopes

Map Unit Setting

National map unit symbol: 1xnf Elevation: 6,500 to 7,500 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Rock outcrop: 50 percent

Eagleye and similar soils: 25 percent Atchee and similar soils: 15 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8s

Hydric soil rating: No

Description of Eagleye

Settina

Landform: Escarpments on cuestas, escarpments on mesas Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear

Parent material: Slope alluvium over residuum weathered from shale

Typical profile

A - 0 to 2 inches: very gravelly silty clay loam

C1 - 2 to 7 inches: silty clay loam C2 - 7 to 13 inches: silty clay loam Cr - 13 to 20 inches: bedrock

Properties and qualities

Slope: 35 to 70 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Description of Atchee

Setting

Landform: Escarpments on cuestas, escarpments on mesas Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear

Parent material: Slope alluvium over residuum weathered from sandstone

Typical profile

A - 0 to 2 inches: very gravelly fine sandy loam

C - 2 to 8 inches: very channery fine sandy loam

R - 8 to 20 inches: bedrock

Properties and qualities

Slope: 35 to 50 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 1.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7e

Hydrologic Soil Group: D

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Minor Components

Gapmesa

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Atchee

Percent of map unit: 5 percent

Ecological site: Clayey (R035XA128NM)

Hydric soil rating: No

305—Celavar-Atarque complex, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xkn Elevation: 6,500 to 7,500 feet

Mean annual precipitation: 13 to 14 inches Mean annual air temperature: 49 to 53 degrees F

Frost-free period: 115 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Celavar and similar soils: 50 percent Atarque and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Celavar

Setting

Landform: Mesas, dip slopes on cuestas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear, concave

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 2 inches: loam

Bt1 - 2 to 24 inches: sandy clay loam Bt2 - 24 to 31 inches: sandy clay loam

2R - 31 to 40 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Twoneedle Pinyon/Oneseed Juniper Woodland - Zuni 13 to 17

inches (F035XG001NM)

Hydric soil rating: No

Description of Atarque

Setting

Landform: Dip slopes on cuestas, mesas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Concave, convex, linear

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 3 inches: sandy loam
Bt - 3 to 14 inches: sandy clay loam
2R - 14 to 20 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Shallow Sandstone (R035XG121NM)

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 9 percent

Hydric soil rating: No

Flugle

Percent of map unit: 6 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

310—Parkelei sandy loam, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xkq Elevation: 6,500 to 7,800 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Farmland of local importance

Map Unit Composition

Parkelei and similar soils: 80 percent Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Parkelei

Setting

Landform: Mesas, dip slopes on cuestas, drainageways Landform position (three-dimensional): Side slope, talf, dip

Down-slope shape: Convex, linear

Across-slope shape: Linear, concave, convex

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 2 inches: sandy loam
Bt - 2 to 21 inches: sandy clay loam
Btk1 - 21 to 55 inches: sandy clay loam
Btk2 - 55 to 65 inches: clay loam

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: High (about 9.2 inches)

Interpretive groups

Land capability classification (irrigated): 3c Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: B

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Minor Components

Fraguni

Percent of map unit: 10 percent Ecological site: Sandy (R035XA113NM)

Other vegetative classification: Sandy (null_29)

Hydric soil rating: No

Evpark

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null 13)

Hydric soil rating: No

Galzuni

Percent of map unit: 3 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null 7)

Hydric soil rating: No

Bryway

Percent of map unit: 2 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null 13)

Hydric soil rating: No

315—Flugle-Fragua complex, 1 to 10 percent slopes

Map Unit Setting

National map unit symbol: 1xks Elevation: 6,400 to 7,300 feet

Mean annual precipitation: 13 to 14 inches Mean annual air temperature: 49 to 53 degrees F

Frost-free period: 115 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Flugle and similar soils: 50 percent Fragua and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Flugle

Setting

Landform: Mesas, dip slopes on cuestas, fan remnants on valley sides

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Convex, concave

Across-slope shape: Linear, concave, convex

Parent material: Eolian deposits over fan and slope alluvium derived from

sandstone and shale

Typical profile

A - 0 to 3 inches: loam

Bt1 - 3 to 10 inches: sandy clay loam Bt2 - 10 to 28 inches: clay loam Bk - 28 to 65 inches: sandy loam

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Moderate (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Twoneedle Pinyon/Oneseed Juniper Woodland - Zuni 13 to 17

inches (F035XG001NM)

Other vegetative classification: pinyon-juniper forest (null_3)

Hydric soil rating: No

Description of Fragua

Setting

Landform: Dip slopes on cuestas, fan remnants on valley sides, mesas

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Concave, convex

Across-slope shape: Concave, convex, linear

Parent material: Eolian deposits over fan and slope alluvium derived from

sandstone

Typical profile

A - 0 to 2 inches: loamy fine sand Btk - 2 to 19 inches: sandy loam Bk - 19 to 65 inches: sandy loam

Properties and qualities

Slope: 1 to 10 percent

Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: A

Ecological site: Sandy Slopes (R036XB111NM)

Hydric soil rating: No

Minor Components

Celavar

Percent of map unit: 5 percent

Ecological site: Steep Gravelly - Woodland (F035XG135NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

Royosa

Percent of map unit: 5 percent

Ecological site: Malpais (R051XA009NM)

Hydric soil rating: No

317—Highdye-Evpark-Bryway complex, 2 to 20 percent slopes

Map Unit Setting

National map unit symbol: 1xkv Elevation: 6,800 to 7,600 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Highdye and similar soils: 35 percent Evpark and similar soils: 30 percent Bryway and similar soils: 20 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Highdye

Settina

Landform: Ridges, dip slopes on cuestas, hills, mesas

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, concave, linear

Parent material: Eolian deposits and slope alluvium derived from sandstone over

residuum weathered from shale

Typical profile

A - 0 to 3 inches: fine sandy loam Bt1 - 3 to 5 inches: clay loam 2Bt2 - 5 to 12 inches: clay 2R - 12 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 20 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: pinyon-juniper forest (null 6)

Hydric soil rating: No

Description of Evpark

Setting

Landform: Dip slopes on cuestas, hills, mesas, ridges

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope, talf

Down-slope shape: Convex

Across-slope shape: Concave, convex, linear

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 5 inches: loam

Bt1 - 5 to 10 inches: clay loam
Bt2 - 10 to 24 inches: sandy clay loam

R - 24 to 40 inches: bedrock

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: pinyon-juniper forest (null 6)

Hydric soil rating: No

Description of Bryway

Settina

Landform: Hills, mesas, ridges, dip slopes on cuestas

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope
Landform position (three-dimensional): Crest, nose slope, side slope, head slope,
talf

Down-slope shape: Convex

Across-slope shape: Convex, linear, concave

Parent material: Slope alluvium derived from sandstone over residuum weathered from shale

Typical profile

A - 0 to 4 inches: sandy loam Bt1 - 4 to 10 inches: clay Bt2 - 10 to 23 inches: clay 2Cr - 23 to 40 inches: bedrock

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent Available water storage in profile: Low (about 3.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: D

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: pinyon-juniper forest (null 6)

Hydric soil rating: No

Minor Components

Vessilla

Percent of map unit: 5 percent

Ecological site: Sandy Upland 13-17" p.z. Moderately Deep (R035XF618AZ)

Other vegetative classification: Shallow Sandstone (null 37)

Hydric soil rating: No

Galzuni

Percent of map unit: 5 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

Parkelei

Percent of map unit: 5 percent

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: Pinyon-Juniper Forest (null 21)

Hydric soil rating: No

320—Parkelei-Fraguni complex, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xkw Elevation: 6,500 to 7,500 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Parkelei and similar soils: 45 percent Fraguni and similar soils: 40 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Parkelei

Setting

Landform: Plateaus, mesas, dip slopes on cuestas, fan remnants on valley sides

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Convex, concave

Across-slope shape: Linear, convex, concave

Parent material: Eolian deposits over fan and slope alluvium derived from

sandstone and shale

Typical profile

A - 0 to 4 inches: fine sandy loam
Bt1 - 4 to 18 inches: sandy clay loam
Bt2 - 18 to 28 inches: sandy clay loam
Bt3 - 28 to 39 inches: sandy clay loam
Btk - 39 to 52 inches: sandy clay loam
Bk - 52 to 70 inches: fine sandy loam

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: B

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: pinyon-juniper forest (null_6)

Hydric soil rating: No

Description of Fraguni

Setting

Landform: Plateaus, mesas, dip slopes on cuestas, fan remnants on valley sides

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Convex, concave

Across-slope shape: Linear, convex, concave

Parent material: Eolian deposits over fan and slope alluvium derived from

sandstone

Typical profile

A - 0 to 4 inches: loamy fine sand Bt1 - 4 to 20 inches: fine sandy loam Bt2 - 20 to 46 inches: loamy fine sand Bt3 - 46 to 58 inches: sandy clay loam

BC - 58 to 70 inches: fine sandy loam

Properties and qualities

Slope: 1 to 8 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: A

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: pinyon-juniper forest (null_6)

Hydric soil rating: No

Minor Components

Evpark

Percent of map unit: 8 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Pinyon-Juniper Forest (null 21)

Hydric soil rating: No

Bryway

Percent of map unit: 7 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Pinyon-Juniper Forest (null 21)

Hydric soil rating: No

332—Evpark-Arabrab complex, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 1xky Elevation: 6,800 to 8,000 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Evpark and similar soils: 50 percent Arabrab and similar soils: 40 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Evpark

Setting

Landform: Mesas, dip slopes on cuestas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Linear, concave, convex

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 2 inches: fine sandy loam

Bt1 - 2 to 9 inches: loam
Bt2 - 9 to 36 inches: clay loam
R - 36 to 40 inches: bedrock

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: pinyon-juniper forest (null_3)

Hydric soil rating: No

Description of Arabrab

Setting

Landform: Mesas, dip slopes on cuestas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear, concave

Parent material: Eolian deposits and slope alluvium over residuum weathered

from sandstone

Typical profile

A - 0 to 2 inches: gravelly fine sandy loam
Bt1 - 2 to 7 inches: sandy clay loam
Bt2 - 7 to 12 inches: clay loam

Btk - 12 to 17 inches: gravelly clay loam

R - 17 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: south of Gallup 13-16 (F036XA001NM)

Other vegetative classification: pinyon-juniper forest (null 3)

Hydric soil rating: No

Minor Components

Highdye

Percent of map unit: 5 percent

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

Parkelei

Percent of map unit: 5 percent

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

338—Zyme-Lockerby association, 5 to 35 percent slopes

Map Unit Setting

National map unit symbol: 1xn7 Elevation: 6,500 to 7,200 feet

Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Zyme and similar soils: 50 percent Lockerby and similar soils: 40 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Zyme

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Residuum weathered from shale

Typical profile

A - 0 to 3 inches: channery silty clay loam

Cky1 - 3 to 8 inches: silty clay Cky2 - 8 to 15 inches: channery clay Cr - 15 to 20 inches: bedrock

Properties and qualities

Slope: 5 to 35 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Description of Lockerby

Setting

Landform: Hills, ridges

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Crest, nose slope, side slope, head slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Residuum weathered from shale

Typical profile

A - 0 to 1 inches: silty clay loam

Bw - 1 to 11 inches: clay Bss - 11 to 15 inches: clay Bssy - 15 to 26 inches: clay Cr - 26 to 40 inches: bedrock

Properties and qualities

Slope: 5 to 15 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7e

Hydrologic Soil Group: D

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 6 percent

Hydric soil rating: No

Marianolake

Percent of map unit: 4 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

350—Toldohn-Vessilla-Rock outcrop complex, 8 to 35 percent slopes

Map Unit Setting

National map unit symbol: 1xl3 Elevation: 6,800 to 8,000 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Toldohn and similar soils: 35 percent Vessilla and similar soils: 30 percent

Rock outcrop: 20 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Toldohn

Setting

Landform: Breaks, ridges, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Slope alluvium over residuum weathered from shale

Typical profile

A - 0 to 4 inches: gravelly clay loam

2BC - 4 to 11 inches: clay 2Cr - 11 to 20 inches: bedrock

Properties and qualities

Slope: 8 to 35 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Very low (about 1.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: pinyon-juniper forest (null_3)

Hydric soil rating: No

Description of Vessilla

Setting

Landform: Structural benches on ridges, structural benches on hills, breaks

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side slope, head slope,

tread

Down-slope shape: Convex

Across-slope shape: Linear, convex

Parent material: Eolian deposits over slope alluvium derived from sandstone

Typical profile

A - 0 to 2 inches: fine sandy loam C - 2 to 11 inches: fine sandy loam 2R - 11 to 20 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Available water storage in profile: Very low (about 1.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Sandy Upland 13-17" p.z. Moderately Deep (R035XF618AZ)

Other vegetative classification: pinyon-juniper forest (null_3)

Hydric soil rating: No

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8s

Hydric soil rating: No

Minor Components

Galzuni

Percent of map unit: 5 percent

Ecological site: Clayey (R035XA128NM) Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

Parkelei

Percent of map unit: 5 percent

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: Pinyon-Juniper Forest (null 21)

Hydric soil rating: No

Bryway

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

351—Rock outcrop-Vessilla complex, 35 to 70 percent slopes

Map Unit Setting

National map unit symbol: 1xl4 Elevation: 6,800 to 8,000 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Rock outcrop: 60 percent

Vessilla and similar soils: 30 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: unweathered bedrock

Properties and qualities

Slope: 35 to 70 percent

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8s

Hydric soil rating: No

Description of Vessilla

Setting

Landform: Escarpments on cuestas, escarpments on mesas Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Linear, convex

Parent material: Eolian deposits over slope alluvium derived from sandstone

Typical profile

A - 0 to 5 inches: fine sandy loam

2R - 5 to 20 inches: unweathered bedrock

Properties and qualities

Slope: 35 to 70 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Available water storage in profile: Very low (about 0.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Shallow Loam (R036XB014NM)

Hydric soil rating: No

Minor Components

Rubble land

Percent of map unit: 3 percent

Hydric soil rating: No

Mido

Percent of map unit: 3 percent

Ecological site: Deep Sand (R035XA115NM)

Other vegetative classification: Deep Sand (null 9)

Hydric soil rating: No

Toldohn

Percent of map unit: 2 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

Vessilla

Percent of map unit: 2 percent

Ecological site: Shallow Sandstone (R035XG121NM)

Hydric soil rating: No

352—Zia sandy loam, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2rd0s Elevation: 6,000 to 6,800 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 49 to 53 degrees F

Frost-free period: 120 to 150 days

Farmland classification: Farmland of local importance

Map Unit Composition

Zia and similar soils: 80 percent Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Zia

Setting

Landform: Alluvial fans, stream terraces

Landform position (three-dimensional): Tread, rise

Down-slope shape: Linear, concave

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone over alluvium derived

from sandstone

Typical profile

A - 0 to 3 inches: sandy loam
C1 - 3 to 31 inches: sandy loam
C2 - 31 to 65 inches: fine sandy loam

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: A

Ecological site: Sandy Loam Upland 10-14" p.z. (R035XA117AZ)

Hydric soil rating: No

Minor Components

Mido

Percent of map unit: 10 percent

Landform: Dunes

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Sandy Upland 10-14" p.z. (R035XA118AZ)

Other vegetative classification: Deep Sand (null_9)

Hydric soil rating: No

Penistaia

Percent of map unit: 5 percent Landform: Fan remnants

Landform position (three-dimensional): Tread

Down-slope shape: Convex Across-slope shape: Convex

Ecological site: Loamy Upland 10-14" p.z. (Provisional) (R035XA113AZ)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Aguima

Percent of map unit: 2 percent

Landform: Alluvial fans on valley sides, stream terraces on valley floors

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Convex, concave, linear Across-slope shape: Convex, concave, linear

Ecological site: Loamy Wash 10-14" p.z. (R035XA112AZ)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

San mateo

Percent of map unit: 2 percent

Landform: Flood plains

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Loamy Wash 10-14" p.z. (R035XA112AZ)

Hydric soil rating: No

Sparank

Percent of map unit: 1 percent Landform: Alluvial fans, flood plains

Landform position (three-dimensional): Tread, talf

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Ecological site: Clay Loam Wash 10-14" p.z. (Provisional) (R035XA104AZ)

Hydric soil rating: No

355—Rizno-Tekapo-Rock outcrop complex, 2 to 45 percent slopes

Map Unit Setting

National map unit symbol: 1xl8 Elevation: 6,200 to 6,700 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 49 to 54 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Rizno and similar soils: 35 percent

Tekapo and similar soils: 30 percent

Rock outcrop: 20 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rizno

Setting

Landform: Structural benches, escarpments on cuestas, escarpments on mesas

Landform position (three-dimensional): Side slope, tread, talf

Down-slope shape: Convex

Across-slope shape: Linear, convex

Parent material: Eolian deposits over residuum weathered from sandstone

Typical profile

A - 0 to 3 inches: sandy loam C - 3 to 8 inches: sandy loam 2R - 8 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 20 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 0.9 inches)

Interpretive groups

Land capability classification (imigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Shallow Sandstone (R035XG121NM)

Hydric soil rating: No

Description of Tekapo

Setting

Landform: Ridges, escarpments on cuestas, escarpments on mesas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear

Parent material: Slope alluvium and colluvium derived from siltstone over

residuum weathered from shale

Typical profile

A - 0 to 2 inches: channery silty clay loam

C - 2 to 10 inches: silty clay 2Cr - 10 to 20 inches: bedrock

Properties and qualities

Slope: 10 to 45 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 1.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Shale Hills 10-14"p.z. (Provisional) (R035XA130NM)

Hydric soil rating: No

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No.

Minor Components

Aguima

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Mido

Percent of map unit: 5 percent

Ecological site: Deep Sand (R035XA115NM)

Other vegetative classification: Deep Sand (null_9)

Hydric soil rating: No

Monpark

Percent of map unit: 5 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null_7)

Hydric soil rating: No

360—Hosta-Concho association, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1xlb Elevation: 6,800 to 7,000 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Hosta and similar soils: 45 percent Concho and similar soils: 40 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hosta

Setting

Landform: Fan remnants on valley sides, drainageways
Landform position (three-dimensional): Side slope, tread, dip

Down-slope shape: Convex, concave, linear Across-slope shape: Convex, concave

Parent material: Fan alluvium derived from sandstone and shale

Typical profile

A - 0 to 2 inches: loam

Bt - 2 to 4 inches: clay loam

Btk1 - 4 to 24 inches: clay loam

Btk2 - 24 to 51 inches: clay

Bk - 51 to 65 inches: sandy clay loam

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R036XB006NM)

Hydric soil rating: No

Description of Concho

Setting

Landform: Drainageways, stream terraces on valley floors

Landform position (three-dimensional): Tread, dip

Down-slope shape: Linear, concave Across-slope shape: Convex, linear

Parent material: Fan alluvium over stream alluvium derived from sandstone and

shale

Typical profile

Ap1 - 0 to 1 inches: clay loam Ap2 - 1 to 5 inches: clay Btss - 5 to 32 inches: clay Btkss - 32 to 51 inches: clay Btkz - 51 to 65 inches: clay

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: High (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated). None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: C

Ecological site: Clayey (R036XB002NM)

Hydric soil rating: No

Minor Components

Fraguni

Percent of map unit: 5 percent

Ecological site: Sandy (R035XA113NM)

Other vegetative classification: Sandy (null 29)

Hydric soil rating: No

Parkelei

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null 13)

Hydric soil rating: No

Silcat

Percent of map unit: 5 percent

Ecological site: Clayey (R035XA128NM)
Other vegetative classification: Clayey (null 7)

Hydric soil rating: No

365—Vessilla-Rock outcrop complex, 2 to 15 percent slopes

Map Unit Setting

National map unit symbol: 1xld Elevation: 6,500 to 8,100 feet

Mean annual precipitation: 13 to 14 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Vessilla and similar soils: 55 percent

Rock outcrop: 35 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Vessilla

Setting

Landform: Mesas, dip slopes on cuestas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Convex, linear, concave

Parent material: Eolian deposits derived from sandstone

Typical profile

A - 0 to 2 inches: fine sandy loam Ck1 - 2 to 6 inches: fine sandy loam Ck2 - 6 to 15 inches: fine sandy loam

R - 15 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 15 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Ecological site: Sandy Upland 13-17" p.z. Moderately Deep (R035XF618AZ)

Other vegetative classification: pinyon-juniper forest (null 3)

Hydric soil rating: No

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: unweathered bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8s

Hydric soil rating: No

Minor Components

Arabrab

Percent of map unit: 5 percent

Ecological site: south of Gallup 13-16 (F036XA001NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

Evpark

Percent of map unit: 3 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Pinyon-Juniper Fcrest (null_21)

Hydric soil rating: No

Parkelei

Percent of map unit: 2 percent

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

375—Todest-Shadilto complex, 2 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xlh Elevation: 7,000 to 7,700 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 49 to 53 degrees F

Frost-free period: 115 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Todest and similar soils: 60 percent Shadilto and similar soils: 25 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Todest

Setting

Landform: Dip slopes on cuestas

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Concave, convex

Parent material: Eolian deposits derived from sandstone over slope alluvium

derived from limestone

Typical profile

A - 0 to 1 inches: fine sandy loam

BAt - 1 to 3 inches: fine sandy loam

Btk1 - 3 to 10 inches: sandy clay loam

Btk2 - 10 to 18 inches: sandy clay loam

Bk - 18 to 25 inches: loam 2R - 25 to 40 inches: bedrock

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 80 percent Available water storage in profile: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6e

Hydrologic Soil Group: C

Ecological site: Savanna (R035XG127NM)

Hydric soil rating: No

Description of Shadilto

Setting

Landform: Dip slopes on cuestas

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex, concave

Parent material: Eolian deposits derived from sandstone over residuum

weathered from limestone

Typical profile

A - 0 to 1 inches: very gravelly sandy loam

Bk1 - 1 to 9 inches: sandy loam Bk2 - 9 to 13 inches: sandy loam Bk3 - 13 to 15 inches: sandy loam

R - 15 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 80 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water storage in profile: Very low (about 1.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7e

Hydrologic Soil Group: D

Ecological site: Shallow (R035XG116NM)

Hydric soil rating: No

Minor Components

Flugle

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)
Other vegetative classification: Loamy (null 13)

Hydric soil rating: No

Evpark

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Arabrab

Percent of map unit: 5 percent

Ecological site: south of Gallup 13-16 (F036XA001NM)

Other vegetative classification: Shallow Sandstone (null 37)

Hydric soil rating: No

380—Berryhill-Casamero clays, 2 to 10 percent slopes

Map Unit Setting

National map unit symbol: 1xlk Elevation: 7,000 to 7,800 feet

Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 49 to 53 degrees F

Frost-free period: 120 to 140 days

Farmland classification: Not prime farmland

Map Unit Composition

Berryhill and similar soils: 50 percent Casamero and similar soils: 45 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berryhill

Setting

Landform: Valley sides, hills, depressions on valley floors

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope,

tread, dip

Down-slope shape: Concave, convex

Across-slope shape: Concave, convex, linear Parent material: Slope alluvium derived from shale

Typical profile

A - 0 to 2 inches: clay Bw - 2 to 12 inches: clay Bssyz1 - 12 to 26 inches: clay Bssyz2 - 26 to 39 inches: clay Bssyz3 - 39 to 70 inches: clay

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low

(0.01 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Gypsum, maximum in profile: 35 percent

Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 8.0

Available water storage in profile: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: D

Ecological site: Clayey (R035XA128NM)

Hydric soil rating: No

Description of Casamero

Setting

Landform: Valley sides, hills

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Concave, convex Across-slope shape: Concave, convex

Parent material: Slope alluvium over residuum weathered from shale

Typical profile

A - 0 to 3 inches: clay Bss - 3 to 11 inches: clay Bssyz - 11 to 18 inches: clay Cr - 18 to 20 inches: bedrock

Properties and qualities

Slope: 2 to 10 percent

Depth to restrictive feature: 10 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Gypsum, maximum in profile: 5 percent

Salinity, maximum in profile: Very slightly saline to moderately saline (2.0 to 8.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0

Available water storage in profile: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: Clayey (R035XA128NM)

Hydric soil rating: Unranked

Minor Components

Marianolake

Percent of map unit: 3 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Loamy (null_13)

Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent

Hydric soil rating: No

404—Rock outcrop-Techado-Stozuni complex, 5 to 60 percent slopes

Map Unit Setting

National map unit symbol: 1xls Elevation: 6.600 to 8.000 feet

Mean annual precipitation: 16 to 20 inches

Mean annual air temperature: 40 to 45 degrees F

Frost-free period: 90 to 110 days

Farmland classification: Not prime farmland

Map Unit Composition

Rock outcrop: 35 percent

Techado and similar soils: 35 percent Stozuni and similar soils: 25 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8s

Hydric soil rating: No

Description of Techado

Setting

Landform: Ridges, hills, escarpments on cuestas, escarpments on mesas Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose slope, head slope,

Down-slope shape: Convex

Across-slope shape: Convex, linear

Parent material: Slope alluvium and colluvium over residuum weathered from

shale

Typical profile

A - 0 to 5 inches: channery clay loam

C1 - 5 to 8 inches: clay C2 - 8 to 17 inches: clay 2R - 17 to 20 inches: bedrock

Properties and qualities

Slope: 5 to 60 percent

Depth to restrictive feature: 10 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 8

Hydrologic Soil Group: D

Other vegetative classification: Ponderosa Pine Forest (null_5)

Hydric soil rating: No

Description of Stozuni

Setting

Landform: Ridges, hills, escarpments on cuestas, escarpments on mesas

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope

Landform position (three-dimensional): Side slope, crest, nose slope, head slope,

talf

Down-slope shape: Convex

Across-slope shape: Convex, linear

Parent material: Eolian deposits over slope alluvium derived from sandstone

Typical profile

A - 0 to 1 inches: gravelly sandy loam
C - 1 to 7 inches: gravelly sandy loam

R - 7 to 20 inches: bedrock

Properties and qualities

Slope: 5 to 15 percent

Depth to restrictive feature: 5 to 20 inches to lithic bedrock Natural drainage class: Somewhat excessively drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 1 percent

Available water storage in profile: Very low (about 0.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 7s

Hydrologic Soil Group: D

Other vegetative classification: Ponderosa Pine Forest (null_5)

Hydric soil rating: No

Minor Components

Valnor

Percent of map unit: 3 percent

Ecological site: Montane slopes 12-18" (F039XA007NM)

Other vegetative classification: Ponderosa Pine Forest (null 24)

Hydric soil rating: No

Asaayi

Percent of map unit: 2 percent

Other vegetative classification: Ponderosa Pine Forest (null_24)

Hydric soil rating: No

555—Parkelei-Evpark fine sandy loams, 2 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1xmt Elevation: 6,800 to 8,000 feet

Mean annual precipitation: 13 to 16 inches Mean annual air temperature: 46 to 49 degrees F

Frost-free period: 100 to 135 days

Farmland classification: Not prime farmland

Map Unit Composition

Parkelei and similar soils: 45 percent Evpark and similar soils: 35 percent Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Parkelei

Setting

Landform: Mesas, ridges, dip slopes on cuestas

Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Linear, convex, concave

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 3 inches: fine sandy loam Bt1 - 3 to 12 inches: clay loam

Bt2 - 12 to 21 inches: sandy clay loam Bk - 21 to 65 inches: sandy loam

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: pinyon-juniper forest (null 3)

Hydric soil rating: No

Description of Evpark

Setting

Landform: Dip slopes on cuestas, mesas, ridges
Landform position (three-dimensional): Side slope, talf

Down-slope shape: Convex

Across-slope shape: Concave, convex, linear

Parent material: Eolian deposits over slope alluvium derived from sandstone and

shale

Typical profile

A - 0 to 3 inches: fine sandy lcam Bt1 - 3 to 16 inches: clay loam Bt2 - 16 to 20 inches: clay loam

Bt3 - 20 to 29 inches: sandy clay loam Btk - 29 to 35 inches: sandy clay loam

2R - 35 to 40 inches: bedrock

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20

to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (imigated): None specified

Land capability classification (nonimigated): 6c

Hydrologic Soil Group: C

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: pinyon-juniper forest (null_3)

Hydric soil rating: No

Minor Components

Arabrab

Percent of map unit: 10 percent

Ecological site: south of Gallup 13-16 (F036XA001NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

Highdye

Percent of map unit: 5 percent

Ecological site: Gravelly - Woodland (F035XG134NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

Bryway

Percent of map unit: 5 percent

Ecological site: Loamy (R035XA112NM)

Other vegetative classification: Pinyon-Juniper Forest (null_21)

Hydric soil rating: No

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RESOLUTION OF THE CHAPTER Resolution No. PDC-09-18-203

APPROVING THE PINEDALE CHAPTER COMPREHENSIVE COMMUNITY-BASED LAND USE PLAN MANUAL

WHEREAS:

- 1. The Pinedale Chapter is a certified chapter of the Navajo Nation government pursuant to 26 N.N.C. §3.
- 2. Pursuant to Resolution No. CAP-34-98, the Navajo Nation Council adopted the Navajo Nation Local Governance Act (LGA); and
- 3. Pursuant to the LGA, all chapters shall develop and implement a comprehensive community-based land use plan pursuant to 26 N.N.C. § 2004; and
- 4. The Pinedale Chapter completed the development of the comprehensive community-based land use plan in accordance with 26 N.N.C. § 2004; and
- 5. In the best interest of the community, the Pinedale Chapter hereby approves the comprehensive community-based land use plan, attached hereto as Exhibit "A".

NOW THEREFORE BE IT RESOLVED THAT:

- 1. The Pinedale Chapter hereby approves the Comprehensive Community-Based Land Use Plan in accordance with the requirements of the Local Governance Act, attached hereto as Exhibit "A".
- 2. The Pinedale Chapter further hereby requests the Resource and Development Committee of the Navajo Nation Council to grant certification of their Comprehensive Community-Based Land Use Plan.

CERTIFICATION

We, hereby, certify that the foregoing resolution was duly considered by the Pinedale Chapter at a duly called meeting in Pinedale, Navajo Nation, New Mexico at which a quorum of Chapter members was present and that the same was passed by a vote of 33 in favor, opposed and 5 abstained this 17 day of September , 2018.

Motion by: Francis Price

Raphael Martin, President

Seconded by: <u>Janice Bennott</u>

Clara J. Daye, Vice-President

Dorothy Harjo, Secretary/Treasure



MEMORANDUM

TO:

Honorable Edmund Yazzie

Churchrock, Iyanbito, Mariano Lake, Pinedale, Smith Lake and Thoreau Chapters

FROM:

Mariana Kahn, Attorney Office of Legislative Counsel

DATE:

September 27, 2018

SUBJECT:

STANDING COMMITTEE RESOLUTION: AN ACTION PROPOSED

RELATING TO RESOURCES AND DEVELOPMENT COMMITTEE, CERTIFYING PINEDALE CHAPTER'S COMMUNITY-BASED LAND USE PLAN WHICH HAS REEVALUATED AND READJUSTED PINEDALE

CHAPTER'S FIRST COMMUNITY-BASED LAND USE PLAN

As requested, I have prepared the above-referenced proposed resolution and associated legislative summary sheet pursuant to your request for legislative drafting.

Based on existing law and review of documents submitted, the resolution as drafted is legally sufficient. As with any action of government however, it can be subject to review by the courts in the event of proper challenge.

The Office of Legislative Counsel confirms the appropriate standing committee(s) based on the standing committees powers outlined in 2 N.N.C. §§301, 401, 501, 601 and 701. Nevertheless, "the Speaker of the Navajo Nation Council shall introduce [the proposed resolution] into the legislative process by assigning it to the respective oversight committee(s) of the Navajo Nation Council having authority over the matters for proper consideration." 2 N.N.C. §164(A)(5).

Please ensure that his particular resolution request is precisely what you want. You are encouraged to review the proposed resolution to ensure that it is drafted to your satisfaction.

THE NAVAJO NATION LEGISLATIVE BRANCH INTERNET PUBLIC REVIEW PUBLICATION



LEGISLATION NO: _0314-18__ SPONSOR: <u>Edmund Yazzie</u>

TITLE: An Action Relating To Resources And Development Committee, Certifying Pinedale Chapter's Community-Based Land Use Plan Which Has Reevaluated And Readjusted Pinedale Chapter's First Community-Based Land Use Plan

Date posted: September 27, 2018 at 5:12 PM

Digital comments may be e-mailed to comments@navajo-nsn.gov

Written comments may be mailed to:

Executive Director
Office of Legislative Services
P.O. Box 3390
Window Rock, AZ 86515
(928) 871-7586

Comments may be made in the form of chapter resolutions, letters, position papers, etc. Please include your name, position title, address for written comments; a valid e-mail address is required. Anonymous comments will not be included in the Legislation packet.

Please note: This digital copy is being provided for the benefit of the Navajo Nation chapters and public use. Any political use is prohibited. All written comments received become the property of the Navajo Nation and will be forwarded to the assigned Navajo Nation Council standing committee(s) and/or the Navajo Nation Council for review. Any tampering with public records are punishable by Navajo Nation law pursuant to 17 N.N.C. §374 et. seq.

THE NAVAJO NATION LEGISLATIVE BRANCH INTERNET PUBLIC REVIEW SUMMARY

LEGISLATION NO.: 0314-18

SPONSOR: Honorable Edmund Yazzie

TITLE: An Action Relating To Resources And Development Committee, Certifying Pinedale Chapter's Community-Based Land Use Plan Which Has Reevaluated And Readjusted Pinedale Chapter's First Community-Based Land Use Plan

Posted: September 27, 2018 at 5:12 PM

5 DAY Comment Period Ended: October 2, 2018

Digital Comments received:

Comments Supporting	None
Comments Opposing	None
Inconclusive Comments	None

Legislative Secretary II Office of Legislative Services

10 3 8018 8:15am

Date/Time

RESOLUTION OF THE RESOURCES AND DEVELOPMENT COMMITTEE 23rd Navajo Nation Council --- Fourth Year, 2018

AN ACTION

RELATING TO RESOURCES AND DEVELOPMENT COMMITTEE; CERTIFYING PINEDALE CHAPTER'S COMMUNITY-BASED LAND USE PLAN WHICH HAS REEVALUATED AND READJUSTED PINEDALE CHAPTER'S FIRST COMMUNITY-BASED LAND USE PLAN

BE IT ENACTED:

SECTION ONE. AUTHORITY

- A. The Resources and Development Committee, pursuant to 26 N.N.C. § 2004(D)(2) shall certify community-based land use plans.
- B. Pursuant to 26 N.N.C. § 2004(D)(2), "Every five years the plan shall be reevaluated and readjusted to meet the needs of the changing community" and such readjustment is subject to the certification of the Resources and Development Committee of the Navajo Nation Council.
- Pursuant to 26 N.N.C. § 2004 (B), "Community-Based Land Use C. Plan. The chapter, at a duly-called chapter meeting shall by resolution, vote to implement a community-based land use plan, after the CLUPC has educated the community on the concepts, needs, and process for planning and implementing a community-based land use plan. The community-based land use plan shall project future community land needs, shown by location and extent, of areas identified for residential, commercial, industrial, and public purposes. The land use plan shall be based upon the guiding principles and vision as articulated by the community; along with information revealed in inventories and assessments of the natural, cultural, human resources, and community infrastructure; and, finally with consideration for the land-carrying capacity. plan may also include the following: 1. An open space plan, which preserves for the people certain areas to be retained their natural state or developed for recreational 2. A thoroughfare plan which provides information about the existing and proposed road network in relation to

the land use of the surrounding area. 3. A community facilities plan, which shows the location, type, capacity, and area served, of present and projected or required community facilities including, but not limited to, recreation areas, schools, libraries, and other public buildings. It will also show related public utilities and services and indicate how these services are associated with future land use."

SECTION TWO. FINDINGS

- A. Pursuant to Committee Resolution TCDCJY-22-05, the Transportation and Community Development Committee (predecessor to the Resources and Development Committee; CO-45-12) approved the Pinedale Chapter's Community-Based Land Use Plan in 2005.
- B. Pursuant to Pinedale Chapter Resolution PDC-09-18-203, attached as **Exhibit B**, the Pinedale Chapter approved the Community-Based Land Use Plan, which is attached as **Exhibit A**.
- C. The Resources and Development Committee of the Navajo Nation Council finds it in the best interest of the Navajo Nation to certify the Pinedale Chapter's Community-Based Land Use Plan, which has been reevaluated and readjusted to meet the needs of the changing community.

SECTION THREE. CERTIFICATION OF PINEDALE CHAPTER'S REEVALUATED AND READJUSTED COMMUNITY-BASED LAND USE PLAN

- A. The Resources and Development Committee of the Navajo Nation Council hereby certifies the reevaluated and readjusted Pinedale Chapter's Community-Based Land Use Plan, attached hereto as Exhibit A.
- B. Certification of this Community-Based Land Use Plan shall not delineate adjacent chapter boundaries. Any chapter disputes rest solely with the Courts of the Navajo Nation.

CERTIFICATION

I, hereby, certify that the following resolution was duly considered by the Resources and Development Committee of the 23^{13} Navajo Nation Council at a duly called meeting at the Navajo Nation Council Chambers, Window Rock, Navajo Nation (Arizona), at which a quorum was present and that same was passed by a vote of 3 in favor, and 0 opposed, on this $31^{\rm st}$ day of October 2018.

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

Motion: Honorable Davis Filfred Second: Honorable Walter Phelps

Chairperson Alton Joe Shepherd not voting.

RESOURCES AND DEVELOPMENT COMMITTEE 23rd NAVAJO NATION COUNCIL

FOURTH YEAR 2018

COMMITTEE REPORT

Mr. Speaker,

The RESOURCES AND DEVELOPMENT COMMITTEE to whom has been assigned:

LEGISLATION #0314-18: AN ACTION RELATING TO RESOURCES AND DEVELOPMENT, CERTIFYING PINEDALE CHAPTER'S COMMUNITY-BASED LAND USE PLAN WHICH HAS REEVALUATED AND READJUSTED PINEDALE CHAPTER'S FIRST COMMUNITY-BASED LAND USE PLAN. Sponsor: Honorable Edmund Yazzie; Co-Sponsor: Jonathan L. Hale

Has had it under consideration and reports a **DO PASS** with the following amendment;

Extract Exhibit A, Pinedale Chapter's CLUPC Manuel because Tab 11 was amended and corrected. Attached is the corrected manual and be marked as the new Exhibit "A". And thereafter the matter was approved.

Respectfully submitted,

Alton Joe Shepherd, Chairperson

Resource and Development Committee of

the 23rd Navajo Nation Council

Date: October 31, 2018 - Regular Meeting

Meeting Location: Navajo Nation Council Chambers, Window Rock, Arizona

MAIN MOTION: Davis Filfred S: Walter Phelps V: 3-0-1 (CNV)

YEAS: Davis Filfred, Walter Phelps and Leonard Pete

NAYS:

EXCUSED: Benjamin Bennett and Jonathan Perry

AMENDMENT #1: Extract Exhibit "A" and replace with new Exhibit "A" which is attached.

MOTION: Walter Phelps S: Leonard Pete V: 3-0-1 (CNV)

YEAS: Davis Filfred, Walter Phelps and Leonard Pete

NAYS:

EXCUSED: Benjamin Bennett and Jonathan Perry

RESOURCES AND DEVELOPMENT COMIMTTEE Regular Meeting

October 31, 2018

ROLL CALL VOTE TALLY SHEET:

LEGISLATION # 0314-18: AN ACTION RELATING TO RESOURCES AND DEVELOPMENT, CERTIFYING PINEDALE CHAPTER'S COMMUNITY-BASED LAND USE PLAN WHICH HAS REEVALUATED AND READJUSTED PINEDALE CHAPTER'S FIRST COMMUNITY-BASED LAND USE PLAN. Sponsor: Honorable Edmund Yazzie; Co-Sponsor: Jonathan L. Hale

Main Motion: Davis Filfred Second: Walter Phelps Vote: 3-0-1 (CNV)

YEAS: Davis Filfred, Walter Phelps, and Leonard Pete

NAYS:

EXCUSED: Benjamin Bennett and Jonathan Perry

AMENDMENT # 1: Extract Exhibit "A" and replace with new Exhibit "A" which is

attached.

MOTION: Walter Phelps S: Leonard Pete V: 3-0-1 (CNV)

YEAS: Davis Filfred, Walter Phelps and Leonard Pete

NAYS:

EXCUSED: Benjamin Bennett and Jonathan Perry

Alton Joe Shepherd, Chairperson

Resources and Development Committee

Shammie Begay, Legislative Advisor

Resources and Development Committee