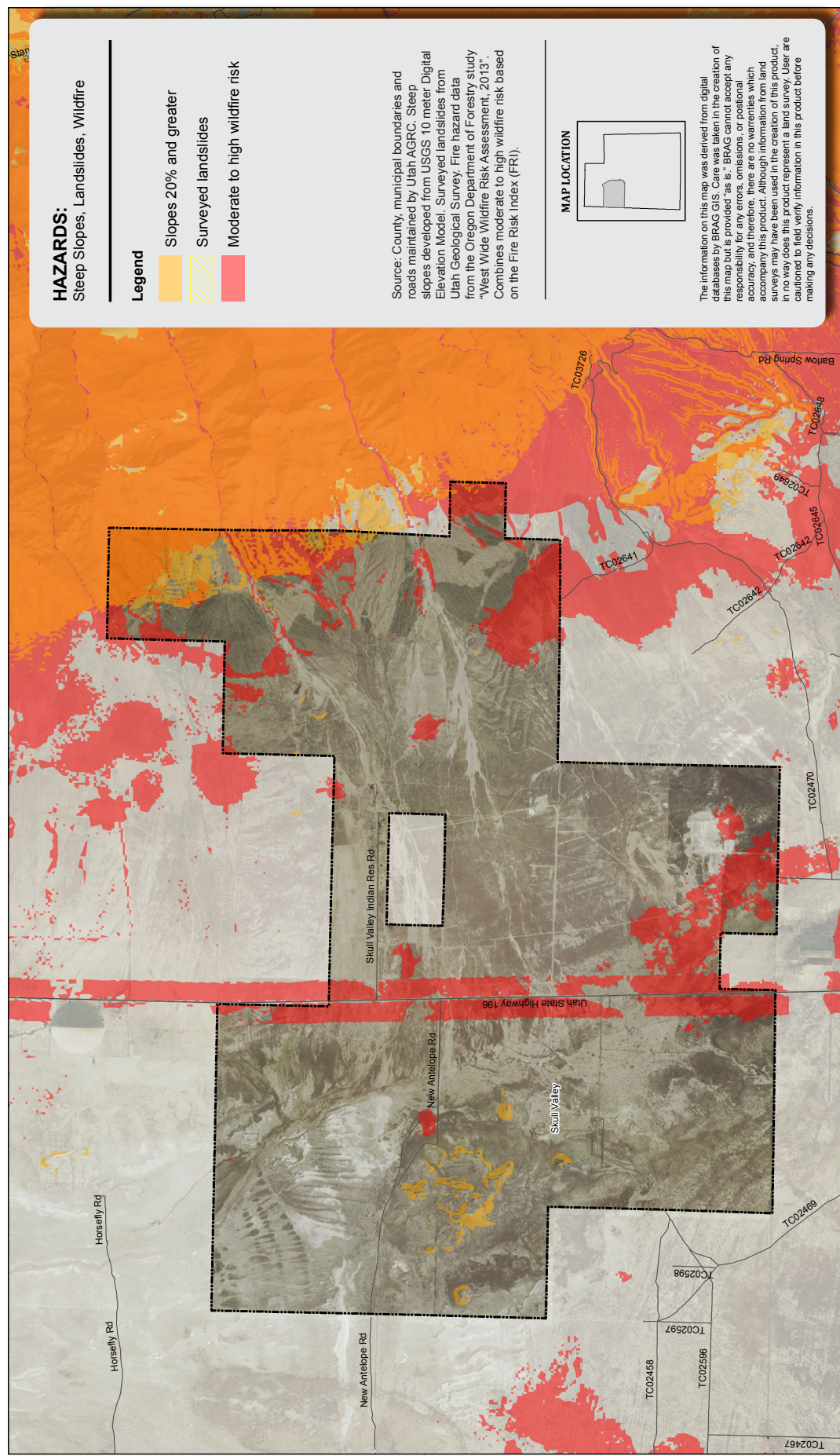
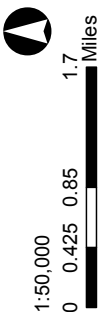


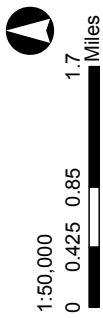
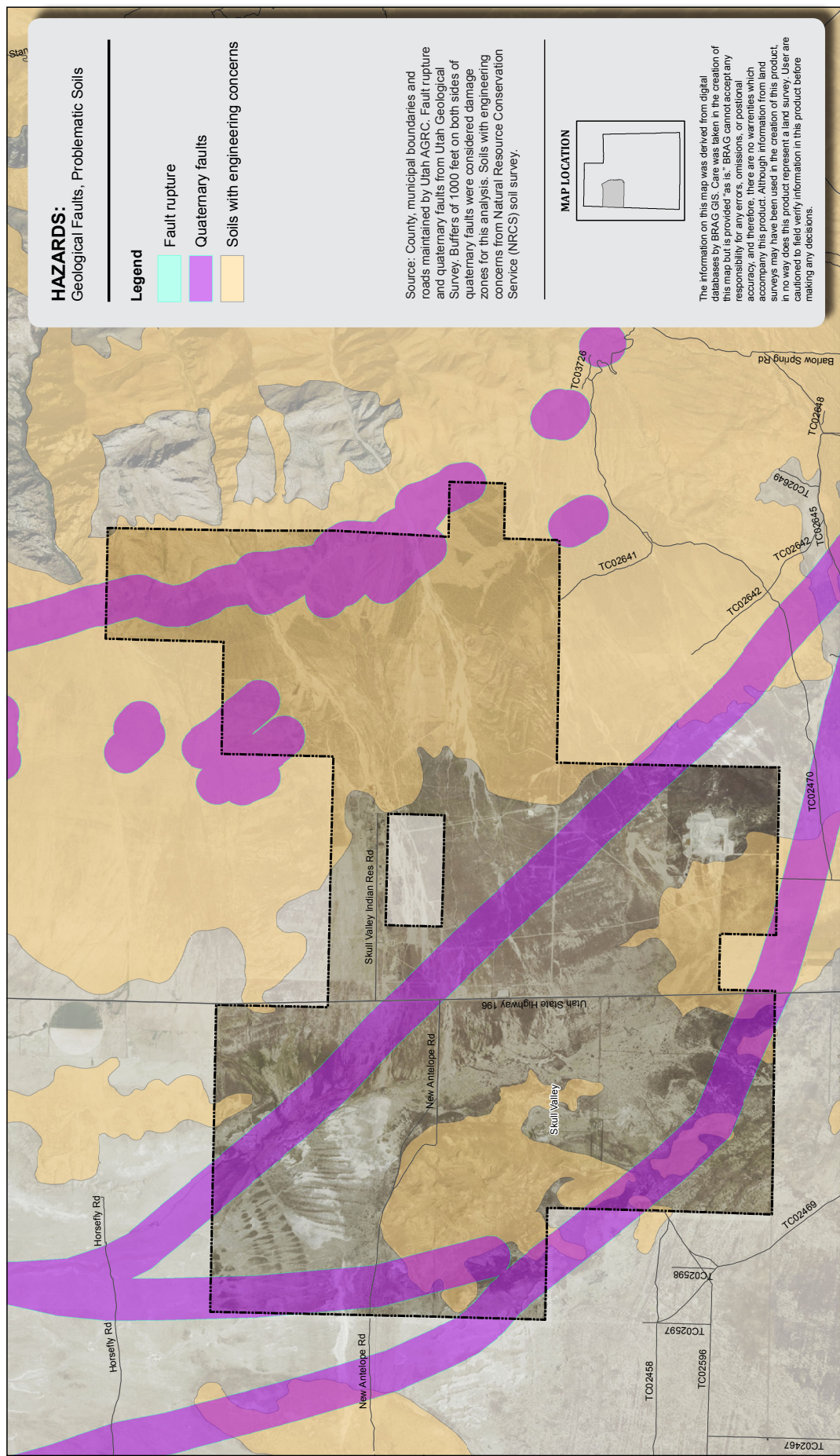
## **SECTION 13: SKULL VALLEY INDIAN RESERVATION COMMUNITY RISK ASSESSMENT**



# SKULL VALLEY, UTAH







SKULL VALLEY, UTAH

## SKULL VALLEY NATURAL HAZARDS, POTENTIAL LOSSES, AND MITIGATION STRATEGIES

### SKULL VALLEY

Analysis of hazard risk involving the unincorporated portions of Skull Valley revealed that there is potential risk resulting from **wildfire, faults and steep slopes**. These hazards have varying potential to impact infrastructure, agriculture, and environmental features. Currently wildfires have the greatest potential to impact infrastructure and agriculture amenities based on potential loss values. Steep slopes have minimal impact on streams. Other natural hazard types not mentioned were found to have no potential impacts to the reservation. See the following tables for more detailed descriptions of potential losses associated with each natural hazard.

**Table 28:** Skull Valley Potential Loss Figures.

### Natural Hazards

**Wildfire.** The Skull Valley Reservation has a moderate- very high risk of wildfire throughout the reservation and adjacent land parcels. Areas with the presence of grassy and shrubby vegetation types have the highest risk. Wildfires have the potential to impact infrastructure and agricultural features on the reservation.

**Faults.** Minor risk to roads from an earthquake exist for the reservation.

**Steep Slopes.** There are low risks associated with steep slopes within the reservation. Areas of greatest concern have slopes of 15-25%. Steep slopes have the potential to impact 2 miles of streams in Skull Valley.

### Future Development

No concerns involving potential future development within Skull Valley were reported by community representatives.

Skull Valley, UT, Residential & Commercial Development at Risk						
Hazard Type	~Residents at Risk*	Residential Units at Risk		Commercial Units at Risk		
		# Units	\$ Value**	# Units	\$ Value**	\$ Potential Revenue Loss***
Dam Failure	0	0	\$0	0	\$0	\$0
Faults	0	0	\$0	0	\$0	\$0
Wildfire	0	0	\$0	0	\$0	\$0
Flood (FEMA)	0	0	\$0	0	\$0	\$0
Flood (Soils)	0	0	\$0	0	\$0	\$0
Liquefaction	0	0	\$0	0	\$0	\$0
Landslide	0	0	\$0	0	\$0	\$0
Slope	0	0	\$0	0	\$0	\$0
High Water Table	0	0	\$0	0	\$0	\$0
Unsuitable Soils for Buildings	0	0	\$0	0	\$0	\$0
* Based on average persons per owner household for Tooele County from 2013 American Community Survey, which is 3.2. ** Current Market Value per parcel, including building and land values. Data provided by Tooele County. *** Based on average sales, receipts, or value of shipments of firms with or without paid employees, per firm (\$642,261 per firm). Derived from 2007 Survey of Business Owners for Tooele County, US Census Bureau.						

Skull Valley, UT, Critical Facilities at Risk						
Hazard Type	Critical Facilities Types					
	Emergency Services/Law Enforcement	Schools/Public Facilities	Health Care Facilities	Places of Worship	Infrastructure	Other
Dam Failure						
Faults						
Wildfire						
Flood (FEMA)						
Flood (Soils)						
Liquefaction						
Landslide						
Slope						
High Water Table						
Unsuitable Soils for Buildings						

Note: Critical facilities were identified using multiple data sources including: Utah AGRC, UDOT, Utah Division of Water Resources, and public and community leader input.

Skull Valley, UT, Infrastructure at Risk										
Hazard Type	Infrastructure at Risk									
	Railroad Lines		Natural Gas Lines		Electrical Power lines		Roads		Canals	
	# of Miles	\$ Value <sup>1</sup>	# of Miles	\$ Value <sup>2</sup>	# of Miles	\$ Value <sup>3</sup>	# of Miles	\$ Value <sup>4</sup>	# of Miles	\$ Value <sup>5</sup>
Dam Failure	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Faults	0	\$0	0	\$0	0	\$0	1.27	\$666,750	0	\$0
Wildfire	0	\$0	0	\$0	0	\$0	1.37	\$719,250	0	\$0
Flood (FIRM)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Flood (Soils)	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Liquefaction	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Landslide	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Slope	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
High Water Table	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Unsuitable Soils for Builings	0	\$0	0	\$0	0	\$0	2.23	\$1,170,750	1.33	\$0

<sup>1</sup> Based on figures from 2009 Pre-Disaster Mitigation Plan for Bear River Region, Utah (\$1,500,000/mi).

<sup>2</sup> Based on average replacement cost estimates for gas lines ranging from 2-inches-20 inches in diameter. These cost are based solely on labor and material costs, and may vary based on time, scope, and site specific variations (Questar, 2015).

<sup>3</sup> Based on estimates from Logan Light and Power, 2015 (\$127,000/mi).

<sup>4</sup> Based on estimates derived from an average 28' wide, 4" thick asphalt county road with gravel subgrade replacement. Cache County, 2015 (\$525,000/mi).

<sup>5</sup> Based recent Cache County and regional project cost estimates, 2015 (\$1,500,000/mi).

Skull Valley, UT, Environmental & Recreational Features at Risk							
Hazard Type	Environmental Features at Risk			Recreational Features at Risk			
	Wetland/ riparian	Lakes	Streams	Parks	Trails	Trails (Master)	Amenities
	# of Acres		# of Miles	# of Acres	# of Miles	# of Miles	# of Amenities
Dam Failure	0	0	0	0	0	0	0
Faults	1.09	0.32	14.64	0	0.52	0	0
Wildfire	0	0	0	0	0	0	0
Flood (FIRM)	0	0	0	0	0	0	0
Flood (Soils)	0	0	0	0	0	0	0
Liquefaction	0	0	0	0	0	0	0
Landslide	0	0	0	0	0	0	0
Slope	0	0	2.19	0	0	0	0
High Water Table	0	0	0	0	0	0	0
Unsuitable Soils for Buildings	2.37	0	29.62	0	6.61	0	0

Note: Total acres of land and miles of streams and trails were identified using multiple data sources including: Utah AGRC, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Geological Survey, Utah Division of Water Resources, and public and community leader input.

Skull Valley, UT, Agricultural Features at Risk		
Hazard Type	Lands at Risk	
	Agriculture Production*	Grazing**
	# of Acres	
Dam Failure	0	0
Faults	0	0
Wildfire	98.09	0.02
Flood (FIRM)	0	0
Flood (Soils)	0	0
Liquefaction	0	0
Landslide	0	0
Slope	0	0
High Water Table	0	0
Unsuitable Soils for Buildings	0	8.93

\* Lands that are currently associated with agricultural activities involving water related land use, as described in the 2007 Utah Division of Water Resources, *Water Related Land Use* dataset.

\*\* Lands currently associated with grazing allotments identified as part of the Grazing Improvement Program (Utah AGRC, 2012)

(See Section 17: Unincorporated Tooele  
County Community Risk Assessment)