

Mail PO Box 5310 Stateline, NV 89449-5310 Location 128 Market Street Stateline, NV 89449

Phone: 775-588-4547 Fax: 775-588-4527 www.trpa.gov

MEMORANDUM

Date: Augu	ust 24, 2023
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To: TRPA Hearings Officer

From: TRPA Staff

Subject Burgess Land Capability Challenge 744 Chapel Lane, Placer County, California APN: 094-251-009; TRPA File #: LCAP2023-0051

Proposed Action:

Hearings Officer review and approve the proposed Land Capability Challenge.

Staff Recommendation:

Staff recommends the TRPA Hearings Officer approve the land capability challenge on the subject parcel. The challenge changes Class 5- 6,980 sq. ft. (67 percent of parcel) and Class 3 3,420 sq. ft. (33 percent of parcel), to Class 6- 7,664 sq. ft. (74 percent of parcel) and Class 4- 2,736 sq. ft. (26 percent of parcel).

Background:

The subject parcel is shown as Class 5 and Class 3 on TRPA Land Capability Overlay Maps (aka Bailey Land Capability maps). The Soil Conservation Service *Soil Survey of Tahoe Basin Area, California-Nevada* (Rogers, 1974) places the subject parcel primarily in TdD- Tallac, gravelly coarse sandy loam, 5 to 15 percent mapunit with a small portion of TeE- Tallac gravelly coarse sandy loam, 15 to 30 percent mapunit. A land capability verification completed in 2023 verified the parcel as Class 5 and Class 3. The updated *Soil Survey of Tahoe Basin Area, California and Nevada* (NRCS, 2007) maps this parcel as 7182- Paige medial sandy loam, 15 to 30 percent slopes and part 7172- Kneeridge gravelly sandy loam, 5 to 15 percent slopes. This parcel has a geomorphic mapping of E1 for Moraine land, Undifferentiated (Moderate hazard lands). The Tallac soils have a gravelly coarse sandy loam. They are skeletal soils (greater than 35% rock fragments in the particle control section) and do not have argillic soil development. A weakly silica-cemented duripan occurs at depths of 40 to 70 inches.

A land capability challenge (LCAP2023-0051) was filed by Gary Furumoto on behalf of the owners James and Michelle Burgess on March 17, 2023. TRPA contractor, Marchel Munnecke, visited the site on June 12, 2023, and described one soil pit.

Findings:

One soil pit was excavated by backhoe to 62 inches. The pit was in the south side of the parcel, approximately 10 feet south of the southeast corner of the garage. The soil formed in volcanic

colluvium over glacial outwash and potentially old sandy beach deposits. This soil is characterized by a gravelly sandy loam surface texture, with loamy sand, gravelly loamy sand, extremely gravelly sand, and sand subsurface textures. A silica cemented horizon was not observed in the pit. This soil is classified as a Sandy, mixed, frigid, Typic Humixerepts. This soil is very deep, somewhat excessively drained, and is a member of Soil Hydrologic Group A. The vegetation on this parcel is primarily white fir forest including a few Jeffrey pine, sugar pine and incense-cedar trees. There is almost no understory vegetation, with uniform cover of litter and duff. The pit was located in the Class 6 area south of the driveway. A portion of the parcel has slopes between 16 to 30 percent. An additional pit was not described in the Class 4 area, due to the similar landform and vegetation characteristics and limited size.

In the *Soil Survey of Tahoe Basin Area, California-Nevada* (Rogers, 1974), the Tallac soil is described as having a root restrictive silica cemented layer between 40 to 60 inches. A silica cemented layer was not observed in this soil. The texture of this soil is coarser than the Tallac soil, has fewer rock fragments in the particle control section, and potentially has old sandy beach deposits in the lower horizons. This soil differs from the Inville and Jabu soils because it lacks argillic soil development. This soil differs from the Elmira and Gefo soils because it has volcanic colluvium over outwash and beach deposits. This soil differs from the Jorge and Tahoma soils because it lacks argillic soil development, and it has glacial and beach deposit material. Therefore, this soil is dissimilar to any soils mapped in the 1974 Soil Survey of the Tahoe Basin and is an unnamed soil (XXX).

This soil is dissimilar to the Paige and Kneeridge soils mapped on this parcel in the 2007 Soil Survey. It differs from the Kneeridge and Paige soils because it has coarser textures and potentially influenced by sandy beach deposits. In addition, it differs from the Paige soils because dense till was not observed.

Using Table 4 in the Land Capability Classification of Lake Tahoe Basin, California-Nevada, and based on slopes on this parcel, the Land Capability is mapped as Class 6- XXX 0 to 16 percent slopes and Class 4- XXX 16-30 percent slopes.

Land Canability District	Area (sq. ft.) 2023 LCV	Area (sq. ft.) 2023 LCC
Land Capability District	2023 LCV	2023 LCC
Class 5 (TdD, 5 to 15 % slopes)	6,980	0
Class 3 (TeE), 15 to 30 % slopes)	3,420	0
Class 6 (XXX, 0 to 16 % slopes)	0	7,664
Class 4 (XXX, 16 to 30 % slopes)	0	2,736
Total Parcel Area	10,400	10,400

The table below summarizes the changes in land capability as concluded by this land capability challenge.

This memorandum was jointly prepared by Senior Planner, Julie Roll. If you have questions on this Hearings Officer item, please contact Julie Roll, 775-589-5247, or email at <u>iroll@trpa.gov</u>.

Site Information	
Assessor's Parcel Numbers: (APN)	094-251-009
TRPA File No. / Submittal Date:	LCAP2023-0051/ 3/17/2023
Owner or Applicant:	James and Michelle Burgess
Address:	PO Box 328, Tahoe City, CA 96145

Environmental Setting	
Bailey Soil Mapping Unit ¹ /	TdD, Tallac, gravelly coarse sandy loam, 5 to 15
Hydrologic Soil Group (HSG) / Land	percent mapunit with a small portion of TeE, gravelly
Class / Geomorphic Hazard Unit	coarse sandy loam, 15 to 30 percent mapunit / HSG C/
	E1- Moraine lands (Moderate hazard lands)
Soil Parent Material	Volcanic colluvium over glacial and lacustrine
	deposits.
Slopes and Aspect	14 to 23 percent slopes; facing to the east.
Elevation and Datum	6,394 to 6,500, Approximate from Google Earth
Rock Outcrops and Surface	NA
Configuration	
SEZ and Hydrology Source	NA
Vegetation	The vegetation on this parcel is primarily a white fir
	forest with a few Jeffrey pine, sugar pine and incense-
	cedar, and almost no understory vegetation.
Ground Cover Condition	Good (vegetation 60 %, duff/mulch 70% cover)
Site Features	Residence, AC driveway and walkways, deck, shed,
	and rock structures.

¹ TRPA currently relies upon the <u>Soil Survey of Tahoe Basin, California-Nevada</u> (Rogers and Soil Conservation Service, 1974), which the Bailey Land Capability system is predicated upon.

Field Investigation and Procedures	
Consultant and Address	Marchel Munnecke
	PO Box 1015
	Twin Bridges, CA 95735
TRPA Staff Field Dates	June 12, 2023
SEZ Mapping / NRCS Hydric Soil	No SEZ on this parcel or in the immediate vicinity
Number of Soil Pits or Auger Holes	1 pit excavated by backhoe to 60 inches.
and Description Depth	
Additional or Repetitive TRPA	NA
Sample Locations	
Representative Soil Profile	See attachment B- Soil Description
Descriptions	
Areas Not Examined	Residence, AC driveway and walkways, deck, shed,
	and rock structures.

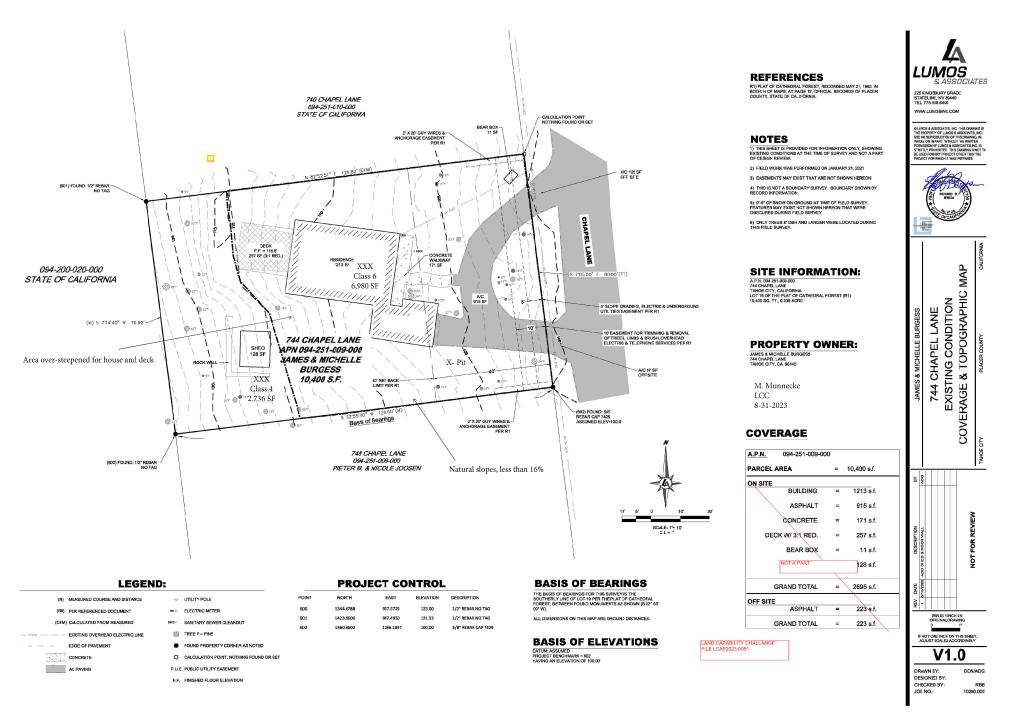
	TRPA Findings	
2006 Soil Survey Map Unit	7182- Paige medial sandy loam, 15 to 30 percentslopes and part 7172- Kneeridge gravelly sandy loam,5 to 15 percent slopes.	
Consultant Soil Mapping Determination and Rationale	This parcel was determined to be Class 6- XXX 0-16 percent slopes and Class 4-XXX 16 to 30 percent slopes.	
	In the <i>Soil Survey of Tahoe Basin Area, California-Nevada</i> (Rogers, 1974), the Tallac soil is described as having a root restrictive silica cemented layer between 40 to 60 inches. A silica cemented layer was not observed in this soil. The texture of this soil is coarser than the Tallac soil, has fewer rock fragments in the particle control section, and potentially has old sandy beach deposits in the lower horizons. This soil differs from the Inville and Jabu soils because it lacks argillic soil development. This soil differs from the Elmira and Gefo soils because it has volcanic colluvium over outwash and beach deposits. This soil differs from the Jorge and Tahoma soils because it lacks argillic soil development, and it has glacial and beach deposit material. Therefore, this soil is dissimilar to any soils mapped in the 1974 Soil Survey of the Tahoe Basin and is an unnamed soil (XXX).	

	This soil is dissimilar to the Paige and Kneeridge soils mapped on this parcel in the 2007 Soil Survey. It differs from the Kneeridge and Paige soils because it has coarser textures and potentially influenced by sandy beach deposits. In addition, it differs from the Paige soils because dense till was not observed.
Slope Determination	13 to 20 percent slopes.
TRPA Conclusion(s)	TRPA concurs with consultants' determination and rationale above.
Applicable Area	See site topo for soil delineations.

Attachments:

- A. Parcel Map with Soil Map Units Delineated
- B. Soil Description
- C. Site Photographs

Attachment A Parcel Map with Soil Map Units Delineated



AGENDA ITEM NO. V. C.

L:\LAPref\10260.000 744 Chapel Lare\Survey\ 08/5/2022 12:22 3m rbyrem Attachment B Soil Description James and Michelle Burgess Land Capability Challenge August 31, 2023, Hearing Officer Meeting

744 Chapel Lane, Tahoe City, Placer County, CA 96145 APN 094-251-009-000, LCAP2023-0051

Soil Profile Descriptions Marchel Munnecke Field Date: 6-12-2023





Pit 095-251-009-000:

Soil Classification: Sandy, mixed, frigid Typic Humixerepts. A laboratory test would be needed to verify if this soil has enough volcanic ash to be an andisol. It would then be medial, mixed, frigid Humic Vitrixerands. Soils in this area in the 2007 Soil Survey were mapped as andisols. **Soil Series:** XXX- Class-6, 0 to 16 percent slopes and XXX Class 4, 16 to 30 percent slopes **Drainage Class:** Somewhat excessively drained

Hydrologic Group: A

Parent Material: Colluvium and residuum from volcanic parent material over glacial out wash and old sandy beach deposits.

Slope: 15 % Aspect: East

Description:

- Oi 0 to 1 inches; mulch and conifer needles; clear smooth boundary.
- A1 1 to 3 inches; gravelly sandy loam, very dark brown (7.5YR 2.5/2) moist; moderate fine granular structure; soft, very friable, nonsticky and nonplastic; common very fine to fine roots; many very fine to fine irregular pores; 25 percent gravels; clear smooth boundary.
- A2 3 to 11 inches; loamy sand, dark brown (7.5YR 3/2) moist; moderate medium granular structure; soft, very friable, nonsticky and nonplastic; many very fine to coarse roots; many very fine to fine irregular pores; 10 percent gravels; gradual wavy boundary.
- Bw1 11 to 24 inches; loamy sand, dark brown (7.5YR 3/3) moist; moderate medium subangular blocky structure; soft, very friable; nonsticky and nonplastic; many fine to medium roots; many very fine and fine irregular pores; 10 percent gravel and 2 percent cobbles; gradual wavy boundary.
- Bw2 24 to 41 inches; gravelly loamy sand, dark yellowish brown (10YR 4/4) moist; weak medium angular blocky structure; soft, very friable, moderately sticky and moderately plastic; common fine to medium roots; many very fine and fine irregular pores; 45 percent gravel; clear wavy boundary.
- 1C 41 to 54 inches; very gravelly sand, dark brown (10YR 3/3) moist; massive; moderately hard, firm, nonsticky and nonplastic; few fine roots; many very fine and fine irregular pores; 55 percent gravel; clear wavy boundary.
- 54 to 59 inches; sand, very dark greyish brown (2.5Y 3/2) moist; single grain; loose, loose, nonsticky and nonplastic; few fine roots; many very fine and fine irregular pores; 10 percent gravel; clear wavy boundary.
- 3C 59 to 62 inches; extremely gravelly sand, dark yellowish brown (10YR 3/4) moist; single grain; moderately hard, firm, nonsticky and nonplastic; few fine roots; many very fine and fine irregular pores; 65 percent gravel.

Attachment C Site Photographs



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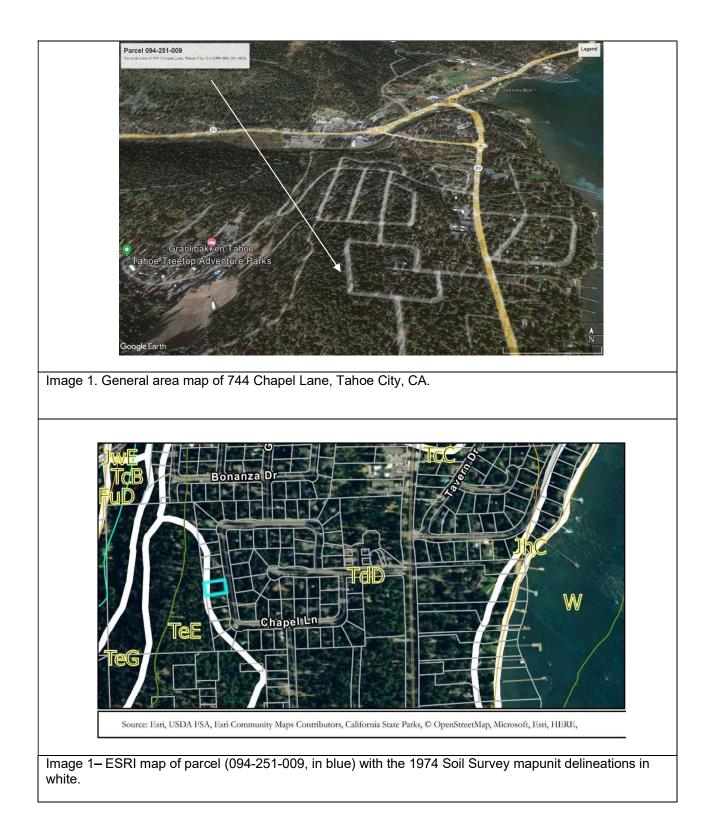
PHOTOGRAPHS (Addendum to APN 094-251-009, August 31, 2023, Staff Summary)



Photo 2 – a. View across pit to west- northwest. Photo 2- b. View of rear deck looking south. Class 4 area above, to right of deck.

imagine. plan. achieve.

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