

**Rapid Visual Screening of Buildings for Potential Seismic Hazards**

FEMA P-154 Data Collection Form

**Level 1**  
**VERY HIGH Seismicity**


Top photo shows regular and positive connection between the walls and the roof.  
 Bottom photo shows similar connection between the walls and the foundation.

SKETCH

Address: Grizzly Peak & Centennial Drive  
Berkeley Zip: 94705

Other Identifiers: \_\_\_\_\_

Building Name: Silver Storage

Use: Storage of flammable materials

Latitude: 37.88100 Longitude: -122.24470

Ss: 2.059 S<sub>1</sub>: 0.758

Screeners(s): Abe Lynn Date/Time: 11/08/2018, 1:00 PM

No. Stories: Above Grade: 1 Below Grade: 0 Year Built: 1969 ☒ EST

Total Floor Area (sq. ft.): 128 Code Year: \_\_\_\_\_

Additions: ☒ None ☐ Yes, Year(s) Built: \_\_\_\_\_

Occupancy: Assembly ☐ Commercial ☐ Emer. Services ☐ Historic ☐ Shelter  
 Industrial ☐ Office ☐ School ☐ Government  
Utility Warehouse Residential, # Units: \_\_\_\_\_

Soil Type: ☐ A ☒ B ☐ C ☐ D ☐ E ☐ F ☐ DNK  
 Hard Avg Dense Stiff Soft Poor If DNK, assume Type D.  
 Rock Rock Soil Soil Soil Soil

Geologic Hazards: Liquefaction: Yes ☐ No ☒ DNK Landslide: Yes ☐ No ☒ DNK Surf. Rupt.: Yes ☐ No ☒ DNK

Adjacency: ☐ Pounding ☐ Falling Hazards from Taller Adjacent Building

Irregularities: ☐ Vertical (type/severity) \_\_\_\_\_  
☐ Plan (type) \_\_\_\_\_

Exterior Falling Hazards: ☐ Unbraced Chimneys ☐ Heavy Cladding or Heavy Veneer  
☐ Parapets ☐ Appendages  
☐ Other: \_\_\_\_\_

**COMMENTS:**

The front is a large opening for the roll-up door, creating some potential torsional offset. However, the roof and walls are light gage steel with no other contribution for mass. Hazardous contents not anchored.

Note: Year built is based on information provided by UCB; however, the type of construction and lack of deterioration appears to be of later construction.

☐ Additional sketches or comments on separate page

**BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, S<sub>L1</sub>**

FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2	S1 (MRF)	S2 (BR)	S3 (LM)	S4 (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	PC1 (TU)	PC2	RM1 (FD)	RM2 (RD)	URM	MH
<b>Basic Score</b>		<b>2.1</b>	<b>1.9</b>	<b>1.8</b>	<b>1.5</b>	<b>1.4</b>	<b>1.6</b>	<b>1.4</b>	<b>1.2</b>	<b>1.0</b>	<b>1.2</b>	<b>0.9</b>	<b>1.1</b>	<b>1.0</b>	<b>1.1</b>	<b>1.1</b>	<b>0.9</b>	<b>1.1</b>
Severe Vertical Irregularity, V <sub>L1</sub>		-0.9	-0.9	-0.9	-0.8	-0.7	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	NA
Moderate Vertical Irregularity, V <sub>L1</sub>		-0.6	-0.5	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	NA
Plan Irregularity, P <sub>L1</sub>		-0.7	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.4	-0.4	-0.5	-0.3	-0.5	-0.4	-0.4	-0.4	-0.3	NA
Pre-Code		-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	0.0
Post-Benchmark		1.9	1.9	2.0	1.0	1.1	1.1	1.5	NA	1.4	1.7	NA	1.5	1.7	1.6	1.6	NA	0.5
Soil Type A or B		0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.3	0.1	0.1
Soil Type E (1-3 stories)		0.0	-0.2	-0.4	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.2	0.0	-0.2	-0.1	-0.2	-0.2	0.0	-0.1
Soil Type E (> 3 stories)		-0.4	-0.4	-0.4	-0.3	-0.3	NA	-0.3	-0.1	-0.1	-0.3	-0.1	NA	-0.1	-0.2	-0.2	0.0	NA
Minimum Score, S <sub>MIN</sub>		0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0

 FINAL LEVEL 1 SCORE, S<sub>L1</sub> ≥ S<sub>MIN</sub>: **2.0**

 UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING") **III**
**EXTENT OF REVIEW**

Exterior: ☐ Partial ☒ All Sides ☐ Aerial  
 Interior: ☐ None ☒ Visible ☒ Entered  
 Drawings Reviewed: ☐ Yes ☒ No  
 Soil Type Source: Geotechnical report for Silver Sciences Expansion  
 Geologic Hazards Source: Geotech Report/CGS website  
 Contact Person: Eric Gardner

**LEVEL 2 SCREENING PERFORMED?**

☐ Yes, Final Level 2 Score, S<sub>L2</sub> \_\_\_\_\_ ☒ No  
 Nonstructural hazards? ☐ Yes ☒ No

**OTHER HAZARDS**

Are There Hazards That Trigger A Detailed Structural Evaluation?  
☐ Pounding potential (unless S<sub>L2</sub> > cut-off, if known)  
☐ Falling hazards from taller adjacent building  
☐ Geologic hazards or Soil Type F  
☐ Significant damage/deterioration to the structural system

**ACTION REQUIRED**

Detailed Structural Evaluation Required?  
☐ Yes, unknown FEMA building type or other building  
☐ Yes, score less than cut-off  
☐ Yes, other hazards present  
☒ No  
 Detailed Nonstructural Evaluation Recommended? (check one)  
☐ Yes, nonstructural hazards identified that should be evaluated  
☐ No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary  
☒ No, no nonstructural hazards identified ☐ DNK

Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data OR DNK = Do Not Know

Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm  
 BR = Braced frame SW = Shear wall LM = Light metal TU = Tilt up RD = Rigid diaphragm