Ninilchik Tribe 2022
Tribal Hazard Mitigation Plan

OVERVIEW MAP
Figure 1
Figure 2
ALASKA EARTHQUAKE CENTER SHAKEMAP: 9 MILES NORTH OF NINILCHIK

Figure 3

Perceived Shaking

<table>
<thead>
<tr>
<th>Potential Damage</th>
<th>Not felt</th>
<th>Weak</th>
<th>Light</th>
<th>Moderate</th>
<th>Strong</th>
<th>Very strong</th>
<th>Severe</th>
<th>Violent</th>
<th>Extreme</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEAK ACC. (g)</td>
<td>&lt;0.05</td>
<td>0.3</td>
<td>2.8</td>
<td>6.2</td>
<td>12</td>
<td>22</td>
<td>40</td>
<td>75</td>
<td>&gt;130</td>
</tr>
<tr>
<td>PEAK VEL. (cm/s)</td>
<td>&lt;0.02</td>
<td>0.1</td>
<td>1.4</td>
<td>4.7</td>
<td>9.6</td>
<td>20</td>
<td>41</td>
<td>56</td>
<td>&gt;178</td>
</tr>
<tr>
<td>Instrumental Intensity</td>
<td>I</td>
<td>II-III</td>
<td>IV</td>
<td>V</td>
<td>VI</td>
<td>VII</td>
<td>VIII</td>
<td>IX</td>
<td>X+</td>
</tr>
</tbody>
</table>

Note: Scale based upon Worden et al. (2012)
ALASKA EARTHQUAKE CENTER SHAKEMAP: 30 MILES NORTHWEST OF NINILCHIK

Figure 4
Legend

Peak Ground Acceleration (%g)

Perceived Shaking
- Moderate (3.9 - 9.2)
- Strong (9.2 - 18.0)
- Very Strong (18.0 - 34.0)
- Severe (34.0 - 65.0)
- Violent (65.0 - 124.0)

Quaternary Faults and Folds

Highway

Ninilchik

Peak Ground Acceleration: 47.76%g
Perceived Shaking: Severe
Potential Damage: Moderate/Heavy

Note: This map represents seismic peak ground acceleration (PGA) with a 5% probability of exceedance in 50 years. Based on this data, there is a 5% chance of an earthquake occurring within Ninilchik that will exceed 47.76%g in 50 years.
**Legend**
- **Red**: Slopes ≥ 20°
- **Yellow**: Critical Facilities
- **Gray**: US Census Community Boundary
- **Purple**: Population Center
- **Orange**: Highway
- **Brown**: Road

Map Projection: Alaska Albers NAD 1983
Map Scale: 1:36,000

**LAND FAILURE HAZARD AREAS**

**Figure 6**

Ninilchik Tribe 2022
Tribal Hazard Mitigation Plan

AECOM Anchorage AK 5/23/2022
USER courtney.m.smith
PATH L:\DCS\GIS\Projects\60668213 - DMVA HMP PDM 18\02_Maps\02_Report_Maps\Ninilchik_HMP\Fig06_LandfailureHaz.mxd

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Legend

Wildfire Risk
- Very High
- High
- Moderate
- Critical Facilities

US Census Community Boundary

Population Center

Highway
Road

Map Projection: Alaska Albers NAD 1983
Map Scale: 1:36,000

AECOM Anchorage AK 5/23/2022
USER: courtney.m.smith
PATH: L:\DCS\GIS\Projects\60668213 - DMVA HMP PDM 18\02_Maps\02_Report_Maps\Ninilchik_HMP\Fig08_WildfireHaz.mxd

WILDFIRE HAZARD AREAS

Figure 8

Ninilchik Tribe 2022
Tribal Hazard Mitigation Plan
Figure 9

Legend
- Critical Facilities
- US Census Community Boundary
- Population Center
- Highway
- Road

Map ID Facility
1. Airport-Nin
2. Cemetery
3. Church
4. Clinic
5. Community Center
6. Deep Creek Rec Area
7. Fuel
8. Gen Store
10. Post Office
11. RV Park
12. School
13. SM Boat Harbor
14. Ninilchik Senior
15. Resource Office and
16. Ninilchik Traditional
17. Three Bears General
18. Kenai Peninsula
19. Community Water
20. Source

Ninilchik Tribe (Census Designated Place Boundary)

Legend
- Critical Facilities
- US Census Community Boundary
- Population Center
- Highway
- Road

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