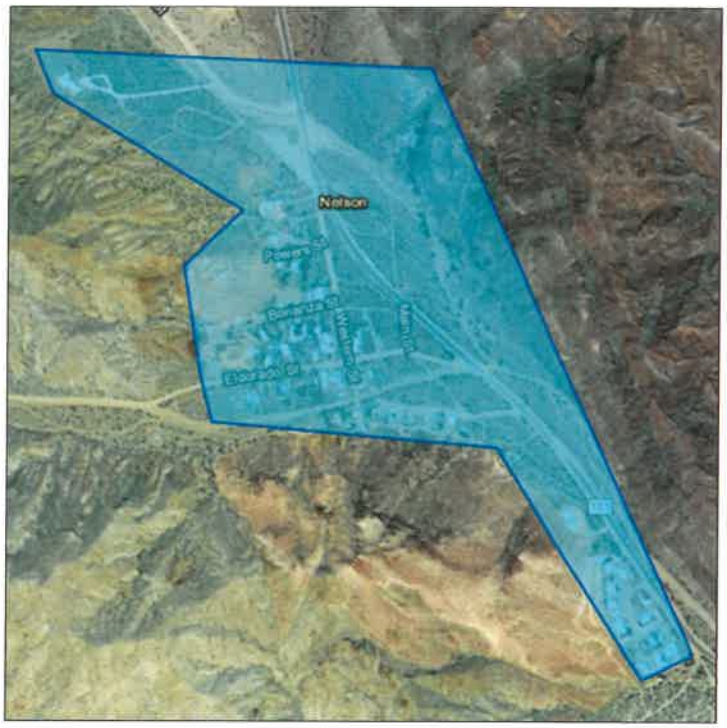
Nelson Landing

Clark County, Nevada

Community Wildfire Risk Assessment



Total Assessed Rating

109 - High

Suppression Rating

High Hazard

Surrounding Environment Rating

Low Hazard

Structures Rating

High Hazard

Fire Protection District

Clark County

Fireshed(s)

Jumbo Wash-Colorado River

Community Information

Latitude	35° 42' 30"
Longitude	-114° 49' 32"
Dwelling Units	33
Size	93.87 acres
Community Type	Residential - Mixed
Assessed By:	Raul Arroyo
Assessment Date:	06-14-2022

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SUPPRESSION ASSESSMENT

Ingress and Egress

→ **2 or more roads in/out with NO response/evacuation complexity**

2 or more roads in/out with SLIGHT response/evacuation complexity

2 or more roads in/out with MODERATE/HIGH response/evacuation complexity

One road in and out (entrance and exit is the same)

Recommended Mitigation Strategies

- ☐ Keep community ingress/egress open and maintained (cleared of vegetation)
- ☐ Develop community plan for evacuation routes, safe zones, staging areas
- ☐ If community is gated, develop evacuation plan and ensure emergency responder access
- ☐ Ensure residents know their closest exit in case of emergency
- ☐ Ask Local Fire Department about Ready, Set, Go!

Road Width

→ **Road width is > 24 feet**

Road width is > 20 feet and < 24 feet

Road width is < 20 feet

Recommended Mitigation Strategies

- ☐ Keep shoulders of road clear for emergency vehicle use whenever possible

Road Accessibility

Surfaced road

→ **Non-surfaced road, grade less than or equal to 5%**

Non-surfaced road, grade greater than 5%

Non-maintained dirt road

Recommended Mitigation Strategies

- ☐ Consider road improvements to reduce the risk driving in extreme grades, tight corners, and road intersections
- ☐ Coordinate with fire department to test access with emergency response vehicles

Secondary Road Terminus

Roads ends in a cul-de-sac, diameter > 100 feet

Roads ends in a cul-de-sac, diameter < 100 feet

Dead end roads <200 feet long

→ **Dead end roads >200 feet long**

Recommended Mitigation Strategies

- ☐ Ensure emergency responders are aware of dead-end roads; Consider signing all dead ends.
- ☐ If dead-end roads are narrow, restrict access during an emergency

Street Signs

Present throughout, lettering 4 inches high, non-flammable and reflective

Inconsistent throughout, lettering 4 inches high, non-flammable and reflective

Present or inconsistent but wooden, non-reflective, or lettering less than 4"

→ **Not present**

Recommended Mitigation Strategies

- ☐ Consider installing reflective, noncombustible street signs to support emergency response efforts

Driveways

→ **Average driveway allows access to homes**

Average driveway restricts access to homes

Recommended Mitigation Strategies

- ☐ Maintain driveway access and clearance

Water Supply

Pressurized hydrants spaced less than 1000 feet apart

Pressurized hydrants spaced more than 1000 feet apart

Dry Hydrant(s) / Draft available within the community

→ **Other accessible sources within community (pond, lake, etc.)**

Water sources located within 4 miles of community (incl heli dip sites)

No water sources in or within 4 miles of the community

Recommended Mitigation Strategies

- ☐ Coordinate with fire department and land owners to train/test use of local water sources (e.g. ponds, lakes)

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Geographic Features
→ **No notable geographical features present to hinder fire suppression**
Suppression efforts hindered by geographical features (e.g. hazardous terrain)
Recommended Mitigation Strategies
☐ Be aware of local geographic features and plan appropriately in the event of a wildfire approaching your area; consider pre-suppression plan

Local Response Resources
5 mi. or less from Agency with Response Authority (Staffed FD)
5 mi. or less from Agency with Response Authority (Mixed Staff/VFD)
5 mi. or less from Agency with Response Authority (VFD)
→ **> 5 mi. from Agency with Response Authority FD**
Recommended Mitigation Strategies
☐ Establish and maintain contact with the closest Fire Department; consider pre-suppression plan
☐ Discuss with closest Fire Department to identify quicker response strategies and other potential solutions

Community Organization/Governance
GID present; HAS structure for sustained fire prevention and mitigation
HOA present; HAS structure for sustained fire prevention and mitigation
Municipal govt present; HAS structure for sustained fire prevention and mitigation
GID present; LACKS structure for sustained fire prevention and mitigation
HOA present; LACKS structure for sustained fire prevention and mitigation
Municipal govt present; LACKS structure for sustained fire prevention and mitigation
→ **Lacks any structure for sustained fire prevention and mitigation**
Recommended Mitigation Strategies
☐ Work with community to become more proactive towards protecting your life and property against wildfires; Become a Firewise USA® Site
☐ Host a Community Education Event at least once a year
☐ Complete Community Risk Mitigation Project(s) as identified by Community Action Plan
☐ Ensure individual homes are ignition-resistant, hardened, and Firewise/Living with Fire concepts are followed

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SURROUNDING ENVIRONMENT ASSESSMENT

Predominant Vegetation

→ **Light (grass)**

Medium (brush)

Heavy (timber, overgrown sage, Pinyon/Juniper with dead/down, etc)

Extreme / Slash (Any Combination of contiguous Light, Medium, Heavy)

Recommended Mitigation Strategies

- ☐ Use brick or stone along the edge of interior fuels/open space to slow the flame spread
- ☐ Consider landscaping using single plants or groups within interior fuels/open space to separate fuels
- ☐ Consider removal of ladder fuels that allow fire to climb from lower to higher vegetation

Defensible Space

→ **> 75% of homes meet criteria in Zone 0, 1 & 2**

50 to 75% of homes meet criteria in Zone 0, 1 & 2

< 50% of homes meet criteria in Zone 0, 1 & 2 - Light fuels amongst structures

< 50% of homes meet criteria in Zone 0, 1 & 2 - Moderate fuels amongst structures

Fuels heavy/extreme amongst structures & other urban hazards/materials are present

Recommended Mitigation Strategies

- ☐ Be aware of the risks from falling embers in relation to nearby fuels and defensible space
- ☐ Mow lawns regularly
- ☐ Water grass, plants, trees and mulch regularly
- ☐ Create a spacing of 30 feet between tree crowns
- ☐ Create a non-combustible area (zone 0) within 5 feet of your home, using non-flammable landscaping materials
- ☐ Remove dead vegetation from under the deck and within 10 feet of the house; stack firewood away from structures
- ☐ Consider xeriscaping

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Structure-to-Structure Ignition
→ **No Possible Structure-to-Structure Ignition**
Possible Structure-to-Structure Ignition
Recommended Mitigation Strategies
☐ N/A

Slope
Slope 0% - 5%
→ **Slope 6 % - 10%**
Slope 11% - 30%
Slope > 31%
Recommended Mitigation Strategies
☐ N/A

Vegetation on Electric Transmission Lines
No above ground electric transmission lines present
→ **Above ground electric transmission lines are maintained**
Above ground electric transmission lines are NOT maintained
Recommended Mitigation Strategies
☐ Know who to call should there be a problem with electric lines in community

Topographical Features
→ **No topographical features adversely affect wildland fire behavior**
Topographical features adversely affect wildland fire behavior (box canyons, chimneys, etc.)
Recommended Mitigation Strategies
☐ N/A

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Adjacency to Wildlands
→ **Not adjacent to wildlands with accumulated fuels**
Adjacent to wildlands with accumulated fuels
Recommended Mitigation Strategies
☐ N/A

Undeveloped Lots with Restricted Access and/or Not Maintained
→ **Fewer than 10% of lots are undeveloped**
10% to 30% of lots are undeveloped
31% to 50% of lots are undeveloped
Greater than 51% of lots are undeveloped
Recommended Mitigation Strategies
☐ Provide Living with Fire/Firewise construction guidelines to developers /owners
☐ Consider developing covenant restrictions, if applicable

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STRUCTURES ASSESSMENT

Roofing Materials

> 75% of homes have metal, tile or class A asphalt or fiberglass shingles

→ **50 to 75% of homes have metal, tile or class A asphalt or fiberglass shingles**

< 50% of homes have metal, tile or class A asphalt or fiberglass shingles

Recommended Mitigation Strategies

- ☐ Use fire-resistant roofing material such as metal, tile or Class A shingles
- ☐ Inspect for and address gaps in roofing that can expose roof decking or supports
- ☐ Place angle flashing over openings between the roof decking and fascia board

Debris on Roof and/or Gutters

→ **No**

Yes

Recommended Mitigation Strategies

- ☐ Clear branch, leaf-litter and other debris from roof and gutters regularly
- ☐ Prune tree limbs away from roof

Ventilation and Soffits

> 75% of homes have non-combustible ventilation soffits with mesh or screening

→ **50-74% of homes have non-combustible ventilation soffits with mesh or screening**

< 50% of homes have non-combustible ventilation soffits with mesh or screening

Recommended Mitigation Strategies

- ☐ Â Clean vents to keep them free of debris, allowing them to keep embers out while allowing air flow for ventilation
- ☐ Enclose or box-in eaves with non-combustible materials such as metal, cement board or stucco
- ☐ Install a 1/8 inch metal screen behind roof vents

Siding

> 75% of homes have non-combustible siding

→ **50-74% of homes have non-combustible siding**

< 50% of homes have non-combustible siding

Recommended Mitigation Strategies

- ☐ Keep landscaping materials and vegetation away from combustible siding
- ☐ Create 5-foot non-combustible area (Zone 0) around house
- ☐ Replace with noncombustible siding when possible

Underskirting

> 75% of homes have skirting underneath raised floors/decks

→ **50-74% of homes have skirting underneath**

< 50% of homes have skirting underneath

Recommended Mitigation Strategies

- ☐ Remove combustible vegetation and leaf litter
- ☐ Spread gravel or other non-combustible material under the deck
- ☐ Screen in the bottom of the deck with metal 1/8-inch screening
- ☐ Separate wooden fences from the house with a stone or metal barrier

Wooden Attachments

> 75% of homes have NO Wooden Attachments

50-74% of homes have NO Wooden Attachments

→ **< 50% of homes have NO Wooden Attachments**

Recommended Mitigation Strategies

- ☐ Â Maintain debris-free decks (e.g. remove ignitable furniture, planters and covering propane grills, especially during high fire danger periods)
- ☐ Consider disconnecting fences from structures, or replacing materials directly attached to structures with fire resistant materials
- ☐ Be aware that wooden attachments can act as a fuse to the structure

Building Setback

→ **Not applicable**

Greater than or equal to 30 feet from slope

Less than 30 feet from slope

Recommended Mitigation Strategies

- ☐ N/A

Propane

> 30 feet from the house and surrounding vegetation maintained

→ **Fewer than 30 feet from the house and/or surrounding vegetation not maintained**

N/A

Recommended Mitigation Strategies

- ☐ Clear ALL flammable debris and materials from around propane tank regularly
- ☐ Consider setting propane tank on concrete or gravel pad

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Electric Utilities
Electric Underground
→ **Electric Overhead drop maintained**
Electric Overhead drop not maintained
Recommended Mitigation Strategies
☐ Â Keep vegetation pruned and mowed around electric cabinets
☐ Place non-flammable mulch (rock, stone) around base of electrical cabinets
☐ Plant less flammable bushes and shrubs around electrical cabinets

Non-Combustible Zone 0
> 75% of homes/outbuildings have adjacent 5-ft non-combustible zone
50-74% of homes/outbuildings have adjacent 5-ft non-combustible zone
→ **< 50% of homes/outbuildings have adjacent 5-ft non-combustible zone**
Recommended Mitigation Strategies
☐ N/A

COMMENTS
1) Power Line are well maintained.
2) 34 mixture of homes.
3) No Street signs
4) each home has own well.
5) Propane on some homes.
6) ***** Flash Flood Area At High Risk*****
7) No VFD, Boulder City Fire & CCFD VFD are out about 45 minutes out or more.
8) SR 165 High Risk if a Major incident would Happened. Steep hills / Narrow Lanes.