

# WILDFIRE MITIGATION PLAN

For Brian McMahon  
6801 Magnolia Dr  
Docket: SPR - 07 - 085  
Inspection date: 8/24/2007

Colorado  
State  
FOREST  
SERVICE  
Boulder District  
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## Prepared for:

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## PURPOSE OF A WILDFIRE MITIGATION PLAN

The purpose of a Wildfire Mitigation Plan is to give guidelines for reducing wildfire hazards around a home or other structures through fuels reduction. It is a document to inform urban interface home owners of the dangers and responsibilities of living in the interface. This plan will help outline the initial and ongoing fuels reduction needed to create and maintain an effective wildfire defensible space. However, having a wildfire mitigation plan, implementation of a defensible space thinning, and following all the recommendations as outlined in this plan **does not guarantee that your home will survive a wildland fire; however, in combination they will give your home the best potential probability to survive a wildland fire.**

## SITE LOCATION AND PROPERTY DESCRIPTION

The property is located in Section 15, Township 1S, and Range 72W, lot 1 of Aspen Meadows. The property is located within the High Country Fire Protection District (303-642-3655). There are no existing structures on the site. A new 3,329 sq.ft residence is proposed for the site. The lot is 2.5 acres in size and has a modest ~2-8 percent slope with a southeast aspect. The site is at ~8,300 feet in elevation and located on a midslope which is relatively dry and moist. Magnolia Dr to the north creates a small natural barrier that may help slow the spread of a surface fire on the site.

## CONSTRUCTION DESIGN AND MATERIALS

The proposed house will have a moderately complex design with a simple roofline and will be oriented with a southeast aspect. **The overall design of the structure greatly influences how it will withstand a wildfire. Complex building forms create heat traps, areas where the walls and roof members intersect on another where eddies form and hot air and embers from a fire can collect. It is important to keep these areas clear of combustibles such as needles and brush.**

The roofing material will consist of class-A asphalt shingles. **Falling embers and fire brands from a wildfire can land on a roof and ignite the roof, either by directly heating the roofing material, or by igniting light fuels (pine needles) that have collected on the roof. It is recommended to place screening over gutters and/or make a yearly check to keep them clear of leaves and needles.**

The exterior wall material is to be cement board. Soffits and fascia are to be  $\frac{3}{4}$ " thick cement board. The structure will have 40 small to medium sized windows with the primary viewing direction being toward the southeast side of the structure. Windows will be double glazed with Low-E coating and tempered glass where required. Frames are to be made of vinyl or aluminum clad wood. Exterior doors are to be  $1\frac{3}{4}$ ", fire-rated, and made of wood and fiberglass. **All operable windows must be provided with screening that is constructed of either aluminum, galvanized steel, copper or of an approved material that when exposed to flame for 15 seconds, will not burn through or melt, and remains intact. Windows are one of the weakest parts of a structure with regards to wildfire. They often crack and fail before the structure itself ignites, providing a direct path for embers and radiant heat to reach the interior. It is best to minimize the number of windows, especially on the downhill side of the structure. Fire typically burns up hill faster and will create a great deal of radiant heat.**

A deck will be constructed of composite decking materials and supported by timber posts or concrete caissons. The deck will be open overhead and isolated from the surrounding landscape with crushed rock over a fiberglass weed barrier. This material should be spread underneath the entire deck surface and to 2 ft past the drip-line of the deck.

## UTILITIES

The propane tank is to be set on a pad of crushed rock overlaying a weedbarrier ~50 ft to the west of the garage. Utilities for the property will be buried from a transformer from a pole to the north on Magnolia Dr. The septic field is located ~30 ft to the west of the garage. A well is located ~40 ft to the south of the residence.

## DRIVEWAY ACCESS FOR EMERGENCY VEHICLES

Access the property from Boulder by heading west on Boulder Canyon Drive, turn left on Magnolia Dr, travel ~6.5 miles to 6901 Magnolia Dr, on the left.



The existing driveway will create minimal amount of site disturbance and soil compaction and will require the removal of few trees. The driveway will be 12 feet wide with a vertical clearance of 13'6" and a grade that is less than 12 percent. The driveway is approximately 234 feet long therefore no turn around will be required. Since the driveway is less than 400 ft., no pull-outs are required along the driveway.

#### EMERGENCY WATER SUPPLY FOR FIRE FIGHTING

The water source will be from a 2,400 or 4,800 gallon individual cistern located ~70ft north of the residence close to the driveway near a hammerhead turn around. The cistern should be located a **minimum** of 50 ft from the front of the house and no further than 150 ft from the rear of the structure. The cistern will have a dry hydrant connection with a 6 inch NH threaded connection and cap (note that a 2-1/2" adaptor may be needed, depending upon the requirements of your fire protection district). Alternatively, a contribution may be made to the fire protection district community cistern fund (if available). Contact the High Country Fire Protection District (303-642-3655) for more information and specific details.

#### FUELS REDUCTION

All trees to be removed are marked with blue spray paint. A number of trees have been left on the north side of the property for screening purposes from nearby neighbors and Magnolia Dr. These trees were not included within the defensible space marking. All trees that are to remain within zones 1 and 2 will be unmarked. The remaining trees will be pruned up ~8ft or 1/3 the height of the tree, whichever is less. Harvested wood that remains on site will be stacked at least 30 feet from the house and at the same elevation when possible. Slash from the harvest will be hauled off site and burned. Note that if you decide to burn piles, you must obtain a valid Open Burning Permit from the Boulder County Environmental Health Department (303-441-1180) and notify your local fire protection district High Country Fire Protection District (303-642-3655).

#### FOREST COMPONENT AND HEALTH

The site has a dominant overstory consisting of ponderosa pine (*Pinus ponderosa*) with a ponderosa pine, Douglas-fir (*Pseudotsuga menziesii*), limber pine (*Pinus flexilis*), lodgepole pine (*Pinus contorta*), and quaking aspen (*Populus tremuloides*) component. The understory consists of a sparse cover of native grasses, forbs and shrubs. The forested area is best represented by Fuel Model 8. Fuel Model 8 is represented by closed canopy stands of ponderosa pine and mixed conifer. Understory may consist of small trees and shrubs, grasses and moderate concentrations of down, dead woody litter. High amounts of needle litter may be present. This model can exist from foothills to subalpine.

There were no current signs of insect or disease problems on the property at the time of the inspection.

#### DEFENSIBLE SPACE MANAGEMENT

There are three defensible space zones to be created around the structure(s) on the site. Please note that it is possible that one or more of these zones will cross over the subject property onto adjacent properties. Property boundaries must be respected; mitigation work is not required beyond immediate boundaries. However, landowners are encouraged to contact and work with neighbors if property lines limit the ability to mitigate within the prescribed area. **Defensible space is a benefit, not only to the individual but also to the community as a whole.**

**Zone 1** - Starts at the foundation and extends out 15 feet in all directions from the outside edge of the structure(s). Zone 1 is broken down into three segments:

**Zone 1A** - Consists of the structure(s) themselves and the area immediately adjacent to and surrounding the structure(s) on all sides. A five-foot wide, non-flammable strip should be created using 1 1/2 river rock over a fiberglass weed barrier material. This strip will also extend back under, and out to, two feet past the drip line of any decks.

**Zone 1B** - Extends out from Zone 1A. In this zone, all highly flammable vegetation should be removed. Any large dead woody material on the ground should also be removed. Firewise plants should be used for landscaping and re-vegetation. Grasses should be irrigated when possible and mowed to a maximum height of 6 to 8 inches twice per growing season to a distance of 30 feet from the structure.

**Zone 1C** - This zone extends out from Zone 1B to 15 feet from the house. All understory trees (ladder fuels) should be removed as marked. These are small seedling and sapling size trees that can be ladders for fire to get in the crowns of the larger trees. A few of the larger, healthy trees can be retained for screening. All remaining trees in this zone should be pruned to a height of 10 feet. They must be well spaced so that the crowns are not touching (10 foot minimum crown spacing). No trees should overhang the house or decks, unless approved by Boulder County or CSFS as "part of the structure" with additional fuels reduction around those trees



to insure the defensible space integrity. Trees should be at least 15 feet away from the house on all sides, and a minimum of 20 feet from chimneys.

**Zone 2** - This zone extends out from Zone 1C, and acts as a transition zone between the heavily thinned areas near the house to the existing forest setting. It extends down slope between 100-170 feet depending upon slope steepness. Zone 2 also extends on either side of the structure a minimum of 100 feet and behind the house between 70-100 feet assuming no boundary restrictions. Tree spacing begins as in Zone 1C and gradually decreases as you approach the outer edge of the zone. Thinning and crown spacing becomes greater in areas of steep slopes. Ladder fuels and poor quality, suppressed and/or diseased trees, 6 to 8 inches in diameter, make up the majority of the removals. The remaining mature trees should be pruned to a height of 10 feet at the intersection of Zones 1 and 2 with limbing reduced in height to 6 feet as you approach Zone 3. If there are any questions pertaining to slope and the changes in thinning spacing and distance regulations please refer to <http://www.ext.colostate.edu/pubs/natres/pubnatr.html> and find the *Quick Facts 6.302 Creating Wildfire Defensible Space*.

**Zone 3** - This zone extends out from Zone 2 to the edge of the property. It may extend out to areas that are not part of the immediate mitigation efforts. In this zone, a few thicker clumps of trees are acceptable, as well as some unpruned trees near the outer edge. Thinning in this zone adds some protection, but is aimed more at forest health. Trees that are of poor quality or form, or have insect or disease infestations, should be removed. Slash in this zone can be lopped and scattered and/or piled for wildlife use.

- Thin suppressed trees and trees with disease and insect infestations and retain the larger, healthier trees.
- Snags can be retained for wildlife.
- Some slash in this zone can be lopped and scattered and/or piled for wildlife enhancement and shelter.
- Large amounts of slash should be disposed of by chipping, hauling to an approved site, or burning.
- For burning permits, check with your local fire protection district.

## **MAINTENANCE AND RECOMMENDATIONS**

As detailed in fact sheet 6.302, *Creating Wildfire Defensible Zones*, an important factor that determines a structure's ability to survive wildfire is defensible space. Defensible space is a maintained area around a structure where fuels (flammable materials) are modified to slow the possible spread of wildfire to the structure, as well as from the structure to the surrounding areas. Defensible space provides a place where structure protection and fire suppression operations may occur. Wildfire hazard mitigation work breaks up fuel continuity, potentially decreasing a wildfire's intensity, and for more effectiveness should be completed beyond a home's defensible space, zone 1 and 2, area into zone 3.

In addition to the above recommendations, several other measures can be taken to make your home more fire safe and add an additional measure of safety for your family. While not required through site plan review, the following measures should be undertaken to maintain the home and defensible space in the future.

- Maintain your defensible space yearly; contact your local forester for a 5-year maintenance inspection
- Establish an escape route and safety zone with the aid of your local fire protection district
- Keep firewood at least 30 feet away from buildings; clear weeds and grass from around pile
- Do not stack fresh cut wood against live trees – this could invite unwanted insects
- When possible, maintain an irrigated green space; mow grasses 6" to 8" high
- Connect, and have available, a minimum of 50 feet of garden hose with an adjustable nozzle
- Have an emergency evacuation plan in place (included in wildfire mitigation plan)
- Be aware of fire danger; your nearest fire danger sign is located at your fire station or check the Boulder Fire Weather website at [www.crh.noaa.gov/bou](http://www.crh.noaa.gov/bou)
- Keep driveways and property address marked with reflective easy to see signs
- Maintain screens on foundations, soffit vents, roof vents, and attic openings
- Get rid of unnecessary accumulations of debris and trash from yards
- Keep tools such as shovels, rakes, ladders, and axes available and ready for use
- Clean debris from the roof and gutters at least two times annually
- Check screens and maintain spark arresters on chimneys annually
- Avoid storing combustibles under decks such as wood piles, scrap lumber, and fuels



## **DEFINITIONS**

**Aspect** – Exposure. The direction a slope faces.

**Canopy** – The cover of branches and foliage formed collectively by crowns of adjacent trees.

**Crown** – Branches and foliage of a tree.

**Dominant fuel type** – Matter that would carry a fire, found on the ground.

**Duff** – a layer of accumulated dead organic matter (pine needles).

**Eddies** – Small wind occurrences that are separate from normal wind flows.

**Fuel Model** – A number system that identifies the types of fuels found on the property that will directly influence fire behavior.

**Fire danger** - An assessment of both fixed and variable factors of the fire environment, which determine the ease of ignition, rate of spread, difficulty of control, and the fire impact.

**Fire hazard** - The potential fire behavior for a fuel type, regardless of the fuel type's weather-influenced fuel moisture content or its resistance to fireguard construction. Assessment is based on physical fuel characteristics, such as fuel arrangement, fuel load, condition of herbaceous vegetation, and presence of elevated fuels.

**Fire management** - The activities concerned with the protection of people, property and forest areas from wildfire and the use of prescribed burning for the attainment of forest management and other land use objectives, all conducted in a manner that considers environmental, social and economic criteria.

**Fire risk** - The probability or chance of fire starting determined by the presence and activities of causative agents.

**Fuel continuity** – The proximity of fuels to each other. Helps determine if a fire can sustain itself.

**Forest health** - A forest condition that is naturally resilient to damage; characterized by biodiversity, it contains sustained habitat for timber, fish, wildlife, and humans, and meets present and future resource management objectives.

**Ladder fuels** - Fuels that provide vertical continuity between the surface fuels and crown fuels in a forest stand, thus contributing to the ease of torching and crowning.

**Limb** (verb) –To remove the branches from a tree.

**Noxious weeds** - Any weed so designated by the Weed Control Regulations and identified on a regional district noxious weed control list.

**Overstory** – The tree species that forms the uppermost forest layer (dominant and co-dominant).

**Slash** – The residue left on the ground as a result of forest and other vegetation being altered by forest practices or other land use activities.

**Snag** – Standing dead tree, often used by wildlife such as woodpeckers, owls, and other various mammals.

**Understory** – Plants that grow underneath the overstory species.

**Wildland urban interface** – a popular term used to describe an area where various structures (most notably private homes) and human developments meet or are intermingled with forest and other vegetative fuel types.





### **Annual fire safety checklist**

- Thin trees and brush properly within defensible space.
- Remove trash and debris from defensible space.
- Remove needles and pine cones from window wells.
- Remove trees growing through a porch or other portions of a structure.
- Clear leaves and debris from the roof and gutters of structures.
- Remove branches that overhang a chimney or roof.
- Stack firewood uphill from a home or on a contour away from the home.
- Use noncombustible roof materials.
- Place shutters, fire curtains or heavy drapes on windows.
- Place screens on foundation and eave vents.
- Enclose sides of stilt foundations and decks.
- Remove any combustibles from under decks, porches or entrances ways.
- Use a chimney screen or spark arrester in fireplaces.
- Clear vegetation from around fire hydrants, cisterns, propane tanks, etc.
- Place placards on garages if storing flammable materials inside.
- Make sure that an outdoor water supply is available with a hose, nozzle and pump.
- Post address signs that are clearly visible from the street or road.
- Make sure that driveways are wide enough for fire trucks and equipment.
- Check with appropriate highway agencies to make sure load limits are posted on bridges and for the appropriate protocol for posting load limits for bridges on private property.
- Install and test smoke detectors.
- Practice a family fire drill and evacuation plan.

### **Evacuation tips**

- If a wildfire is threatening your area, listen to the radio for updated reports and evacuation information.
- Confine pets to one room and make plans to take care of them in the event of evacuation.
- Arrange for temporary housing with a friend or relative whose home is outside the threatened area. Leave a note in a prominent place in your home that says where and how you can be contacted.
- If your home is threatened by wildfire, you will be contacted and advised by law enforcement officers to evacuate. If you are not contacted or you decide to stay and help defend your home, evacuate pets and family members who are not needed to protect your home.
- Remove important documents, mementos, etc. from the possible fire area.
- Choose an evacuation route away from the fire if possible. Watch for changes in the speed and direction of the fire and smoke.

Take a disaster supply kit containing:

- Drinking water.
- A change of clothing and footwear for each family member.
- Blanket or sleeping bag for each person.
- First-aid kit and prescription medications.
- Emergency tools including a battery-powered radio, flashlight and extra batteries.



- Extra set of car keys and credit cards, cash or traveler's checks.
- Extra pairs of eyeglasses or other special items for infants, elderly or disabled family members.

### **Defending your home**

Whether you choose to stay to defend your home or to evacuate, complete as many of the following preparations as possible.

- DO NOT JEOPARDIZE YOUR LIFE. NO MATERIAL ITEM IS WORTH A LIFE.
- Wear fire-resistant clothing and protective gear.
- Remove combustible materials from around structures.
- Close or cover outside vents and shutters.
- Position garden hoses to reach the entire house, but do not turn the water on until it is needed. Hoses should have an adjustable nozzle.
- Place large, full water containers around the house. Soak burlap sacks, small rugs or large rags in the containers.
- Place a ladder against the roof of the house on the opposite side of the approaching wildfire. Place a garden hose near the ladder, prepared as described previously.
- Place portable pumps near available water supplies, such as pools, hot tubs, creeks, etc.
- Close all windows and doors. Do not lock them.
- Close all inside doors.
- Turn on a light in each room and all outside lights. Leave them on even during daylight hours.
- Fill tubs, sinks and similar containers with water.
- Shut off gas supplies to structures at outside meters. Shut off propane supplies at the outside meter of the tank.
- Remove curtains made of lace, nylon or other light materials. Close blinds, heavy drapes and fire resistant window covers.
- Move overstuffed furniture into the center of the house, away from windows and sliding doors.
- Cars should be parked in the garage, facing out. Close the windows of the vehicle but do not lock the doors. Leave the keys in the ignition.
- Close the garage door but leave it unlocked. Disconnect automatic garage door openers.

For additional copies of these checklists, visit [www.colostate.edu](http://www.colostate.edu) and search for wildfire, view the Colorado State Cooperative Extension fact sheet on [Forest Home Fire Safety](#), or contact the local Cooperative Extension office usually listed under the county government section of your local phone book.

(Information provided by Colorado State University Cooperative Extension and the Colorado State Forest Service.)

### **Safety Zone Guidelines**

A Safety Zone is an area that in the event of a wildland fire you could survive the passing fire without the aid of a fire shelter. A natural safety zone could be an area already burned clean by the fire (in the black), rock areas where flashy fuels are absent, or large bodies of water. A manmade safety zones could be pre-constructed sites such as clear cuts. It should be close enough to your home to consider escape time to reach the safety zone. They should not be located upslope or downwind of the fire or in heavy fuels.

1. Avoid locations that are downwind from the fire.
2. Avoid locations that are in chimneys, saddles, or narrow canyons.
3. Avoid locations that require a steep uphill escape route.



4. Take advantage of heat barriers such as lee side of ridges, large rocks, or solid structures.
5. Burn out safety zones prior to flame front approach.
6. For radiant heat only, the distance separation between you and the flames must be at least four times the maximum flame height. This distance must be maintained on all sides, if the fire has ability to burn completely around the safety zone. Convective heat from wind and/or terrain influences will increase this distance requirement.

#### **Calculations Assuming No Slope and No Wind**

<u>Flame Heights</u>	<u>Distance separation</u>	<u>Area in Acres</u>
10 feet	40 feet	1/10 acre
20 feet	80 feet	1/2 acre
50 feet	200 feet	3 acres
75 feet	300 feet	7 acres
100 feet	400 feet	12 acres
200 feet	800 feet	50 acres

**Note:** Distance separation is the radius from the center of the safety zone to the nearest fuels. When fuels are present that will allow the fire to burn on all sides of the safety zone this distance must be doubled in order to maintain effective separation in front, to the sides, and behind the person.

Area in Acres is calculated to allow for distance separation on all sides for a three person family and a vehicle. One acre is approximately the size of a football field or exactly 208 feet x 208 feet.

**Example:** Given a fire with 10 foot flame heights (no wind or slope). You would need a minimum of 40 feet between you and the flames. So your total safety zone should be 80 feet x 80 feet. If you are settled into the middle of the safety zone you will have a minimum distance of 40 feet to each edge of the zone.



Boulder Canyon

Landscape view of the Brian McMahon Property  
6801 Magnolia Dr, Boulder, CO 80502  
SPR - 07 - 085

~6.5 miles northeast to Boulder

6801 Magnolia Dr

**Legend**

— Property Boundary

0 340 680 1,360 2,040 2,720 Feet

This map is intended for display purposes only  
and is not intended for any legal representations





Property of Brian McMahon  
6801 Magnolia Dr, Boulder, CO 80502  
SPR - 07 - 085

~6.5 miles northeast to Boulder

Cistern

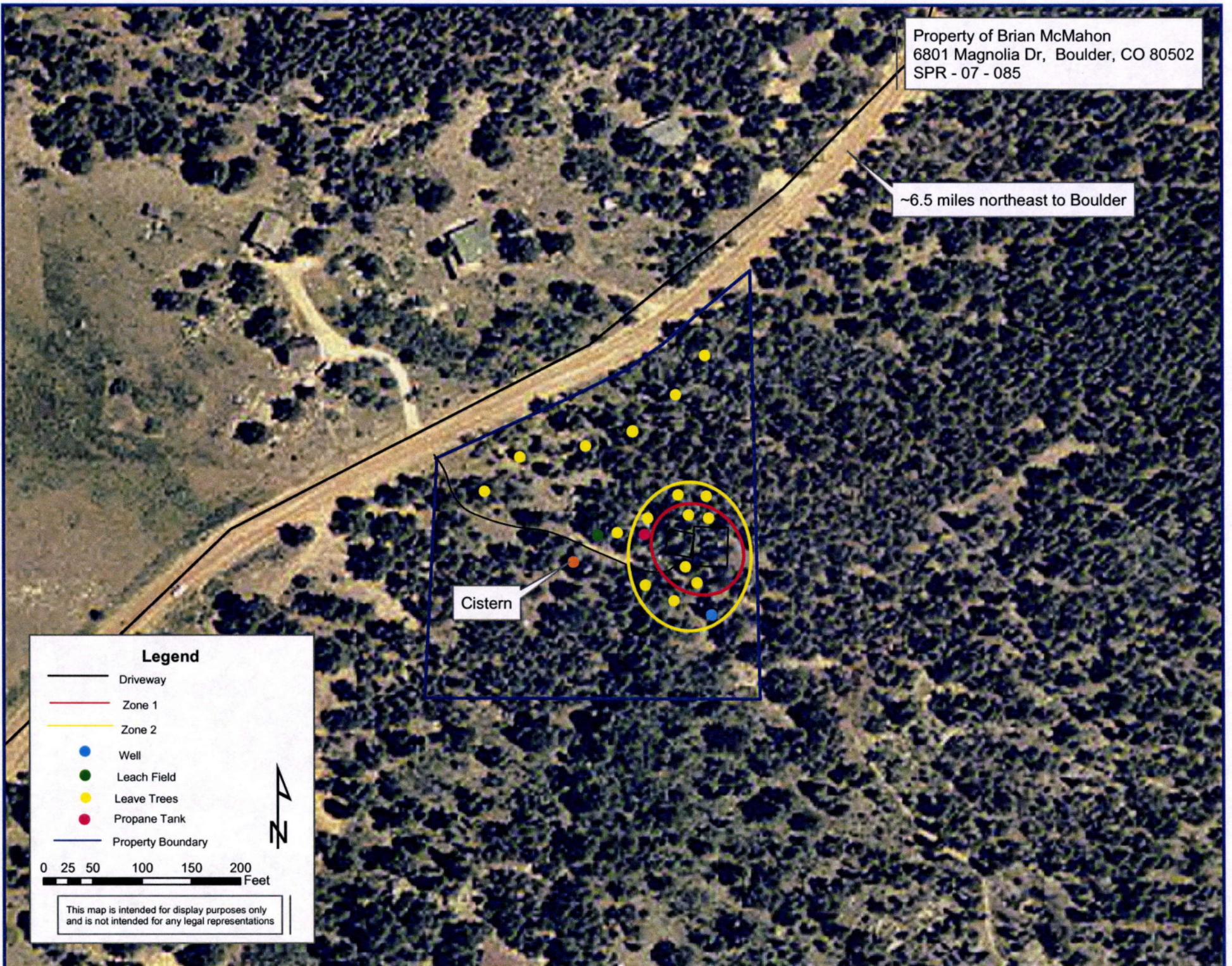
### Legend

- Driveway
- Zone 1
- Zone 2
- Well
- Leach Field
- Leave Trees
- Propane Tank
- Property Boundary



0 25 50 100 150 200  
Feet

This map is intended for display purposes only  
and is not intended for any legal representations





**DIRECTIONS FOR FILLING OUT FORM:**

Please fill out the data form as completely as possible. You may email it to Matthew Jedra at [mjedra@lamar.colostate.edu](mailto:mjedra@lamar.colostate.edu) or fax it to 303-823-5768, or bring it to the scheduled appointment.

Any **Bolded** categories will be filled in by the Colorado State Forest Service (CSFS) representative at the time of initial site visit. If you have any questions about this form please contact Matthew Jedra at 303-823-5774.

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**Wildfire Mitigation Plan**  
FIELD DATA FORM

**Inspection Date:** 8/24/07

**Landowner name:** Brian McMahon

**Mailing address:** 584 Juniper Court

**City, State, Zip:** Louisville, CO 80027

**Site address:** 6801 Magnolia Dr (AKA 999 Magnolia)

**Phone number:** (303) 818-6226

**Road access:** Adjacent to Magnolia

**Docket Number:** SPR-07-085 (SPR, LU, Etc.)

**Section:** 15

**Township:** 1S

**Range:** 72W

**Legal Description:** Lot1, Aspen Meadows



Elevation:                \_~8,300'

Lot size:                 \_2.5 Acres

Driveway length:       \_234' (Actual length in feet from road to home)

Driveway trees removed: \_Very Few (drive already exists)

House design:           \_simple (simple/complex)

Home buffer material: \_Stone (1 ½" River Rock )

Roof Design:            \_simple (Single ridge w/ dormers)

Roof material:            Asphalt Shingles

Soffits type:            \_Cement Board

Siding material:         \_Cement Board

Windows (#):            \_40

Windows Size:           \_Small & Medium

Windows Frames:       \_Either vinyl or Aluminum Clad (If these are required to be clad, then we will use clad)

Windows Aspect:        \_All

Sliding Glass Doors:   \_0

Window Construction: \_Low E, tempered where required by code

Window wells:          \_0

Door Material:           \_Wood Entry (Solid Core, Fire Rated), all other exterior doors fiberglass

Deck material:           \_Composite Decking

Deck Description:       \_Uncovered

Deck support type:      \_Treated lumber on concrete caissons

Deck buffer material:   \_Crushed Rock

Deck weed barrier:      \_Fiberglass



Number of Structures: 1

Existing Structures: 0

New Structure: New SFR with attached garage

Structure SQR. FT.: 3,329 SF

Utility Location: buried from transformer on Excel pole to the North (on Magnolia Dr)

Structure aspect: Front faces ~NorthWest, Back Faces ~ SouthEast

Garage if detached: (N/A Attached)

Out buildings: NA

Leach field: ~30' West from Garage

Cistern size: Either 2,400 or 4,800 gallons

Cistern: ~70 North from house, on driveway near hammerhead

Cistern Type: 2400 Gallon buried concrete (modified septic tank)(Domestic Cistern or Fire Cistern)

Making a donation to community cistern : No (Yes or No)

Have you talked to the local fire department : Left Message (Yes or No)

Are you required to have a sprinkler system : No (Yes or No)

Water supply: Well (fractured Granite)

Well (if applicable): ~ 40' South of House

Propane or natural gas: Propane

Propane Tank location: About 50' West of Garage, near drive

Slash disposal: Hauled/ Burned (Chipped/hauled/burned/lop-scatter)

Can you provide a copy of a map with locations : Yes (Yes or No)



**This part will be filled out by the CSFS inspecting forester**

**FPD:** \_\_\_\_\_

**Dominant fuel type:** \_\_\_\_\_ (Grass/forbs/shrubs/slash/etc)

**Dominant overstory:** \_\_\_\_\_

**Co-dominant overstory:** \_\_\_\_\_

**Fuel model type:** \_\_\_\_\_

**Aspect:** \_\_\_\_\_ (Direction of slope)

**Slope:** \_\_\_\_\_

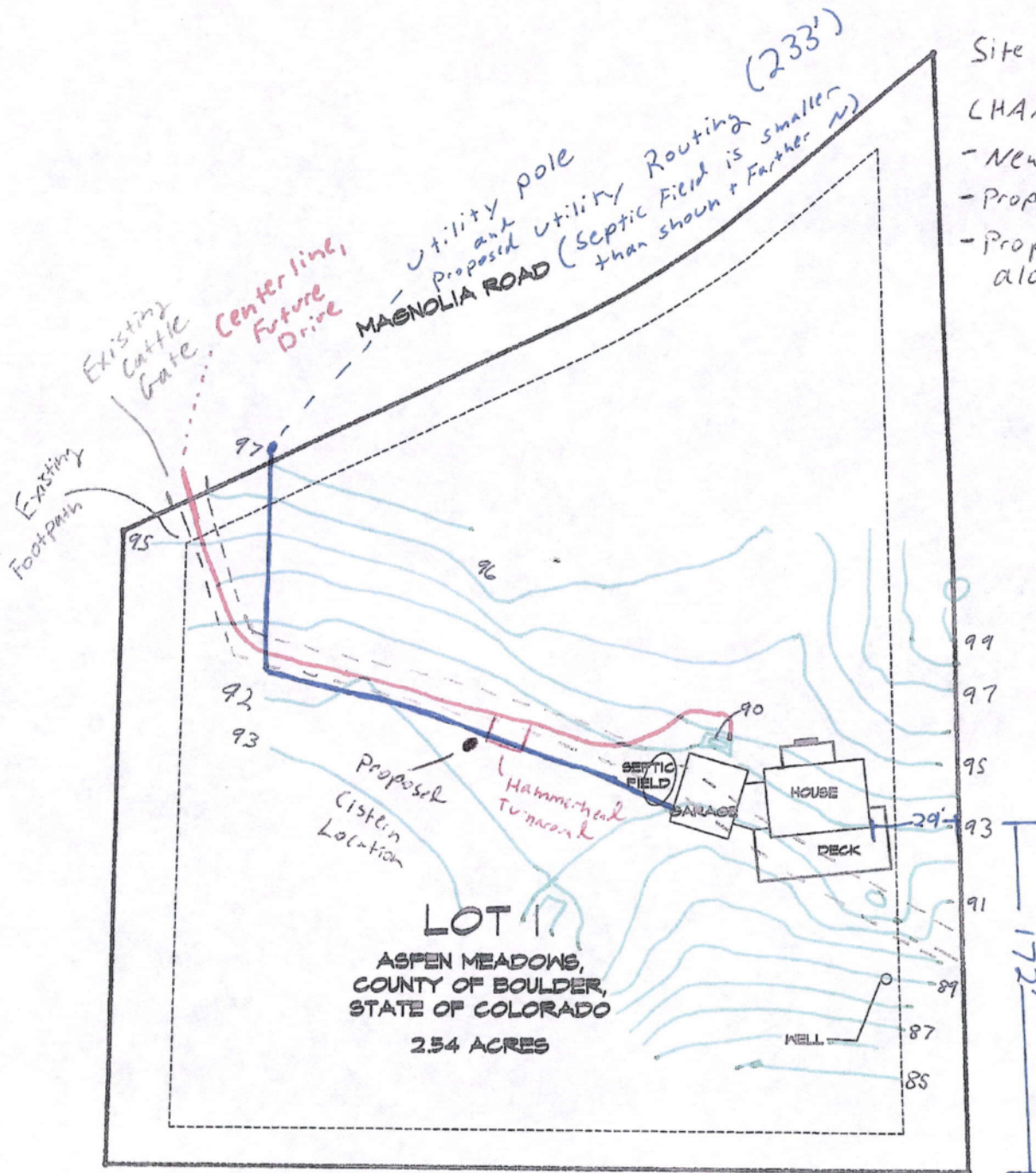
**Building site:** \_\_\_\_\_ (Chimney/saddle/valley/ridge/mid-slope)

**Site moisture:** \_\_\_\_\_

**Natural fire barrier:** \_\_\_\_\_

**Insect & Disease Diagnosis:** \_\_\_\_\_

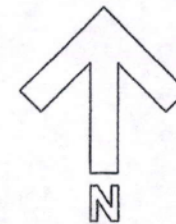




Site plan updated 9/1/07

#### CHANGES:

- New drive location
- Proposed cistern shown
- Proposed utility routing along edge of drive shown



#### SITE PLAN

1" = 60'

#### WILDER ARCHITECTURE & PLANNING, P.C.

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**MCMAHON RESIDENCE**

7/3/07