

CSFS Prescribed Fire Plan Review
Agency Administrator Checklist

Name of Project: CSU RF Horsetooth Piles.

CSFS District: FC

☒ All CSFS signatures completed on cover page. *Branch (12/14)*

☒ CSFS Technical Review completed by appropriate level RX Burn Boss.

☒ Public/Media Information Plan and mitigations appropriate. *okay*

☒ Smoke permit approved for this calendar year from Colorado Department of Public Health and Environment, Air Pollution Control Division. *12/16/2011 PFD?*

☒ Smoke permit matches Smoke Management section of plan.

☒ Estimated Costs and Funding Sources section completed.

☒ Landowner agreement signed and on file. *email*

Jane Lopez
Agency Administrator, name

12/19/2011
Date

Jane Lopez
Agency Administrator, signature

12/19/2011
Date

Lopez,JANE

To: Lebeda,Boyd; Selby,Diana
Cc: Jones,Vaughn
Subject: Horsetooth Piles Plan

Just a couple of questions on the CSU RF Horsetooth Piles Plan:

- 1) I see that PFD is on your notification list, but technically (as I understand it) we need a permit from them too. Not a big deal, but it would be good if we took a look at the LC permit site together and that is how I understand the requirements.
- 2) Just like the Pingree Park plan—can we get some kind of acknowledgement (email is okay) from CSURF that it is okay to burn, in lieu of a SA?

Otherwise looks good and I will sign off--- I am out of the office tomorrow, but in on Friday. Let me know what works for one or both of you.

Thanks!

Jane Lopez
Colorado State Forest Service
Fuels Mitigation and Prescribed Fire
5060 Campus Delivery , Building 1049
Fort Collins, CO 80523-5060
970-980-7877 mobile
970-491-8624 office
970-491-3445 fax

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

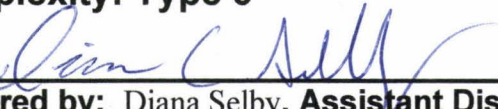


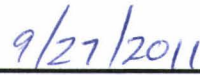
Colorado State Forest Service

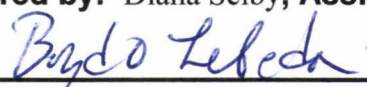
PRESCRIBED FIRE PLAN
for pile burns



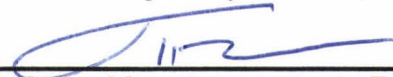
Project Name: CSURF Horsetooth Piles
Land Owner(s): Colorado State University Research Foundation
(CSURF)
District: Fort Collins
Complexity: Type 3

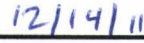

Prepared by: Diana Selby, Assistant District Forester


Date 9/27/2011


Reviewed by: Boyd Lebeda, District Forester

Date 9/8/2011


Reviewed by: Matt Branch, RXB3
(If qualified the DF or FMO also sign off as the Burn Boss)



Date 12/14/11


Reviewed by: Vaughn Jones, Zone Fire Management Officer


Date 11/7/2011

This Prescribed Fire Plan is valid for five years from the final approval date. The approved Prescribed Fire Plan and approved smoke permit constitute a delegation of authority to burn. No one has the authority to burn without an approved plan or in a manner not in compliance with the approved plan. Actions taken in compliance with the approved Prescribed Fire Plan will be fully supported. Personnel will be held accountable for actions taken which are not in compliance with elements of the approved plan regarding execution in a safe and cost-effective manner.


Approved by: Jane Lopez, Fire Division


Date 12/19/2011

FIRE OUT CERTIFICATION

This certifies that all fire in the project area is out, and further patrol and mop-up activities are no longer needed. (Projects with multiple units burned or multiple burn dates may require multiple Certifications.)


Name


Date 2/24/12

CSFS Prescribed Fire Plan Review

Technical Review Checklist

Name of Project: CSURF Horsetooth Piles Complexity Level: Low
CSFS District: Fort Collins (FCDS)

- ☒ Read the entire plan. Check for consistency and clear language.
- ☒ Goals and Objectives are S.M.A.R.T:
 - Specific
 - Measureable
 - Attainable
 - Relevant
 - Timely
- ☒ *Complexity Analysis* section provides sufficient detail to support final *Project Complexity Rating*.
- ☒ *Notification* section contains:
 - Critical and relevant contacts.
- ☒ *Safety Plan* appropriate
- ☒ *Medical Plan* appropriate and accurate
- ☒ *Communications plan* appropriate and accurate
- ☒ *Project Summary* and *Fuels for Project Area* and *Adjacent Area* completed and detailed to accurately depict project site.
- ☒ *Prescription* section is appropriate to achieve objectives.
- ☒ *Resource Requirements* section identifies appropriate and attainable resources for the anticipated fire behavior.
- ☒ *Ignition Plan* section is detailed and appropriate to achieve objectives.
- ☒ *Holding and MopUp Plan* section identifies who is responsible for initial and extended patrol until the prescribed fire is declared out
- ☒ *Escaped Fire Analysis and Action Plan* section clearly states trigger points and initial action responsibilities
- ☒ *Behave* runs support project objectives and plan requirements.
- ☒ *Map* section clearly displays Project Area, Adjacent Area(s), burn unit(s), and vicinity/travel.

All required components of the prescribed fire plan are complete and based upon technical review, I recommend this project for approval:

Vaughn T. Jones
Technical Reviewer, name

11/7/2011
Date

[Signature]
Technical Reviewer, signature

11/7/2011
Date

**Prescribed Burn Plan Review
North Area - FMO Comments**



Fire & Aviation Management, CSFS
2850 Youngfield Street
Lakewood, CO 80215-7093
303.239.3851
303.239.3811 fax

Project: CSURF Horsetooth Piles

Date Received: 10/20/2011

Date Reviewed: 10/24/2011

Comments:

1. Page: 3 Section: OBJECTIVES

1. Goals – see suggested, minor wording changes. Not required.
2. Objectives – not entirely clear here. Is it burning a minimum of 80% of every pile? Do all of the piles have to be burned or is it acceptable to burn a minimum of the total number of piles?

Corrections: See suggested wording and revise to what makes sense for the project to clarify the number of piles that should be burned and the amount of consumption in each pile burned.

2. Page: 6 Section: PUBLIC INFORMATION PLAN

The plan states "*On weeks where a burn window may occur, contact will be made with local individuals requesting notification.*" However, no individuals are listed in the Contacts section. How will these individuals know that the burn is going to occur in order to request information?

Corrections: Please briefly expand on how nearby residents will be notified about the burn and/or how they can obtain information (press releases, individual mailings, etc.).

3. Page: 7 Section: SMOKE MANAGEMENT

- a. Permit Conditions – Comment only: Wind speeds are not identified as eye-level versus 20 foot, etc. Lower wind speeds could be contradictory to good smoke management. Comment to be aware of only, no changes required.

- b. Contingency Smoke Plan: The plan states “Ignitions will be stopped if very unfavorable smoke impacts occur.” What is a “very unfavorable” impact, and what is being impacted (roads, nearby residents, etc.)?

Corrections: Minor, but please clarify what type of smoke impacts are the concern and to whom or what.

4. Page: 10 Section: MEDICAL PLAN

Directions from Nearest Medical Facility to Project Via Ground Transportation: this appears to be backwards and lists directions from the burn site to the facility.

Corrections: please revise to provide accurate directions from medical facility to the burn site for emergency responders.

5. Page: 12 Section: ESCAPED FIRE TRIGGER MECHANISMS

A quarter acre of fire spread is somewhat ‘tight’ for declaration of an escaped fire. Also it is not clear if that is spread from the perimeter as a whole, or spread from one pile on any one side.

Corrections: Assess current trigger as see if you are comfortable with that. Also, clarify if the trigger is spread from any one pile or the unit/project area as a whole.

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

TABLE OF CONTENTS	Page
GOALS AND OBJECTIVES	3
COMPLEXITY ANALYSIS	3
NOTIFICATION	5
PUBLIC INFORMATION PLAN.....	6
BURN AREA, FUELS, AND PROJECT DESCRIPTION.....	7
PRESCRIPTION	7
SMOKE MANAGEMENT	8
REQUIRED RESOURCES.....	9
SAFETY PLAN.....	9
MEDICAL PLAN.....	10
COMMUNICATIONS PLAN	11
IGNITION PLAN.....	11
ESCAPED FIRE ANALYSIS AND ACTION PLAN	12
BRIEFING OUTLINE.....	13
GO/NO-GO CHECKLIST	15
TEST FIRE DOCUMENTATION.....	16
PRESCRIBED FIRE REPORT.....	17
SMOKE PERMIT APPLICATION FORMS	18
ESTIMATED COSTS AND FUNDING SOURCES.....	19
MAPS.....	20
PROJECT MAP	21
VICINITY MAP	22
DOCUMENTED CHANGES TO APPROVED BURN PLAN	23
SERVICE AGREEMENT	24
OTHER ATTACHMENTS.....	25

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

<u>GOALS AND OBJECTIVES</u>
GOALS: 1) Reduce activity and hazardous fuels; and 2) improve appearance of Colorado State University Research Foundation (CSURF) Horsetooth property.
OBJECTIVES, Rx FIRE: 1) Burn all piles; and 2) Consumption of slash in piles by a minimum of 80% while minimizing scorch/char on any adjacent leave trees.

	<u>COMPLEXITY ANALYSIS</u>	<u>Rating</u>
	<u>Narrative:</u> (For each topic describe the topic issues and any mitigation.)	(L, M, or H)
1	<u>POTENTIAL FOR ESCAPE:</u> Minimal due to location on top of ridge, and proximity to trails, road, and openings from fuels reduction activities and burning occurring when there is a minimum of 3" of snow on the ground.	L
2	<u>NUMBER AND DEPENDENCE OF ACTIVITIES:</u> The small number of igniters needed for this burn will hold the piles they ignite.	L
3	<u>OFF-SITE VALUES:</u> Adjacent homes/residences in the Redstone Canyon subdivision to the west. Residences are also located a few miles to the east and Lory State Park is a few miles to the north.	L
4	<u>ON-SITE VALUES:</u> Communication towers, and road and trail system on Horsetooth Mountain Open Space.	H
5	<u>FIRE BEHAVIOR:</u> Minimal fire behavior expected except for initial ignition pulse. Any intense behavior will be mitigated by the snow pack that will be present.	L
6	<u>MANAGEMENT ORGANIZATION:</u> Minimal organizational staff needed.	L
7	<u>PUBLIC AND POLITICAL INTEREST:</u> Due to proximity to recent Crystal Fire and view from Redstone Canyon, Buckskin Heights, Lory State Park, and City of Fort Collins there may be increased public/political/media interest in the burn.	M
8	<u>FIRE TREATMENT OBJECTIVES:</u> Slash fuels were cut and piled in 2010 and will have had over 12 months to dry so piles should be easily consumed. Pile locations are in openings adjacent to trails and road and will have minimal negative impacts on leave trees.	L
9	<u>CONSTRAINTS:</u> Weather will be the primary limiting factor due to the need for good smoke dispersal. Due to the location of the piles and	M

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

	the road system to the site (steep, unplowed in winter), there will also be a need to stage equipment on-site near the piles and hike in to the area for the burn. Larimer County Open Space managers have agreed to plow the road to a point which will require only about a half mile hike in. Sufficient snowpack and appropriate smoke dispersal conditions will be required for ignition.	
10	<u>SAFETY</u> : Dead and down material, proximity to cell towers, and required hike in on steep slopes during snowy conditions. Safety briefings will be conducted by the burn boss for all resources during burn days to ensure awareness of hazards and safe operations.	L
11	<u>IGNITION PROCEDURES/METHODS</u> : Drip torch/fusee ignition at pile base.	L
12	<u>INTERAGENCY COORDINATION</u> : Although no assistance should be needed from other agencies, contact will be made with local dispatch centers and volunteer agencies that may receive smoke reports related to the burn.	L
13	<u>PROJECT LOGISTICS</u> : Sufficient amounts of personnel, burn mix, vehicles, assorted equipment, and signage will be provided by the Fort Collins district.	L
14	<u>SMOKE MANAGEMENT</u> : Too much smoke production could have a negative impact on Redstone Canyon homeowners down-slope. Dispersal ratings will be followed providing good smoke lift/dispersal and piles will be ignited in the morning so that they'll be consumed by end of shift. Smoke notification signs will be placed appropriately (base of Towers Road).	L
15	<u>OTHER</u> : N/A	
	Project Complexity Rating: (This plan is intended for Low Complexity burns only. If a pile burn has a moderate or high complexity the broadcast burn plan template should be used.)	L
	Rational: Eleven out of fourteen ratings are low, indicating low complexity. The unit is small and adjacent to roads and trail system (accessible) even with a required hike in. Piles are located on fairly flat ground and should not pose ignition or control problems.	

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

NOTIFICATION	
IGNITION INFORMATION	
GENERAL GEOGRAPHIC LOCATION:	Larimer County Colorado. Top of ridge off of Towers Road on CSURF property surrounded by Horsetooth Mountain Open Space to the north, south and east, and private Redstone Canyon properties to the west.
LEGAL:	T7N, R70W, SW ¼ of NE ¼ of Section 26
LATITUDE:	N 40° 32' 43"
LONGITUDE:	W 105° 11' 52"

PRESCRIBED FIRE NOTIFICATION LIST			
AGENCY	PHONE OR CONTACT INFORMATION	CONTACT RESPONSIBILITY	COMPLETED – Date(s), Time(s), & Initials
DISPATCH CENTERS			
Fort Collins Interagency Dispatch Center	(970) 295-6800	Burn Boss or CSFS District Staff	2/8/12, 10:00am, DCS
Larimer County Dispatch Center (aka 900)	(970) 416-1985	Burn Boss or CSFS District Staff	2/9/12 0830 BL * need to call day of burn.
AIR QUALITY			
Larimer County Health Department	(970) 498-6700	Larimer County Sheriff's Office	2/8/12 BL
SHERIFF'S OFFICES			
Larimer County via 900 Dispatch	(970) 498-5100	Larimer County Dispatch Center	2/8/12 BL
FIRE DEPARMENTS			
Poudre Fire Authority	(970) 416-2600	Larimer County Dispatch Center	2/9/12 0830 BL * need to call day of burn.
CSFS			
CSFS Fire Division or State Office FDO	(970) 222-2784	Burn Boss or CSFS District Staff	2/8/12, 10:00am, DCS
FMO (Northeast Zone-Vaughn Jones)	(303) 239-3851	Burn Boss or CSFS District Staff	2/8/12, 9:35am, DCS (left message)
OTHER AGENCIES			
Lory State Park	(970) 493-1623	Burn Boss or CSFS District Staff	2/8/12, 9:30am, DCS
Larimer County Parks and Open Space – Mark Caughlin	(970) 498-5600	Burn Boss or CSFS District Staff	2/8/12, 9:25am, DCS
MEDIA			
Media will not be notified unless dictated by unusual circumstances.			

↳ Ryan Lockwood did a media ~~and~~ release picked up by Coloradoan, Loveland Reporter Herald & Today @ Colorado State.

CSURF Horestooth Piles Burn Plan, page 5

Ft. Collins Dispatch
need e-mail notification

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

PUBLIC INFORMATION PLAN

Describe any project notifications that may be completed such as public meetings, press releases, mailings, information signs, etc.

There is no major public information session/method planned for this burn of such low complexity. Local dispatch centers will be notified on burn days of the intention to burn and operational progress.

Additionally, a minimum of 1 smoke/RX burn signs will be placed in a noticeable and appropriate location at the base of Towers Road at the gate during times of smoke impact.

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

<u>BURN AREA, FUELS, AND PROJECT DESCRIPTION</u>	
County:	Larimer
Legal Description:	T7N, R 70W, SW ¼ of NE ¼ of Section 26
Latitude (degrees, decimal minutes):	N 40° 32' 43"
Longitude (degrees, decimal minutes):	W 105° 11' 52"
Number of Piles:	30
Burn Project Size (acres):	5
Size and Composition of Piles	Average dimension = 6' X 6', conifer slash
Type, Hand or Machine	Hand
Ownership:	CSURF
Adjacent Fuels:	Partially open canopy ponderosa pine -FBFM 9
Unit Topography:	Fairly flat with slopes from 0-20%
Adjacent Topography:	Steeper slopes to the east and west of the unit with ranges from 20-60%
INDIVIDUAL UNIT DESCRIPTIONS:	N/A – See above
Unit Name or Number	Latitude & Longitude (Center of Unit)

<u>PRESCRIPTION</u>	
1. The prescription is used to determine limits and constraints for this prescribed fire plan.	
2. The conditions specified in the smoke permit are also required considered prescription parameters.	
<u>Front Range and Plains Districts</u>	
Month:	November-April
Snow Cover:	At least three inches
Wx Forecast:	Temperatures and conditions that would indicate the snow cover staying in place for a minimum of three days.
<u>Western Slope Districts</u>	
Month:	N/A
Snow Cover:	N/A
Wx Forecast:	N/A

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

<u>SMOKE MANAGEMENT</u>		
<ul style="list-style-type: none"> • An approved Smoke Permit from the State of Colorado or the local county is required prior to any ignition. • The conditions specified in the smoke permit are also required prescription parameters. 		
Smoke Permit Information*		
Permit Number: 3189		
Issuing Agency: Larimer County Health Department		
Dates Valid: Oct. 1, 2011 – May 1, 2012		
Permit Constraints: Tree slash only. No trash, stumps or construction materials. There must be 3 or more inches of snow cover around piles and winds less than 7 mph before burning.		
* This information may not be available at the time of the burn plan review and approval process and may be filled in after approval.		
SMOKE SENSITIVE AREAS	DISTANCE (miles) FROM BURN	DIRECTION <u>FROM</u> BURN
1. Redstone Canyon Residence	0.3	NW
2. Redstone Canyon Residence	0.4	SW
3. Horsetooth Reservoir	2.0	E
Daytime Smoke Issues/Mitigation: Ignite early and only on days with good or better smoke dispersal ratings. Bone pile early and often to rapidly and completely consume fuels. Mop up piles completely by end of daily operations.		
Nighttime Smoke Issues/Mitigation: Mop up piles completely by end of daily operations.		
Smoke Monitoring: Will be completed and documented by burn boss or other qualified personnel. Particular attention must be paid to impacts to private lands in Redstone Canyon to the west.		
Contingency Smoke Plan: Ignitions will be stopped if very unfavorable smoke impacts occur including reducing visibility on roadways or smoke moving down canyon around homes without dispersing.		

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

<u>REQUIRED RESOURCES</u>	
Personnel	
Burn Boss, Type 3	1
Lighters	1
Other, specify	
Equipment	
Drip Torches	2
4x4 Pickup Truck	1
Supplies	
Fuel, Drip Torch	5 gal.
Fuel, unleaded	0
Fuel, Diesel	0
Fusees	10
Drinking Water	5 gal.
RX Burn Sign (ie. Smoke Ahead, Rx Burn)	1

<u>SAFETY PLAN</u>
Known Hazards and Mitigation:
<p>Personal Protective Equipment, PPE Required Fireline PPE includes:</p> <ul style="list-style-type: none"> • Either leather fire boots or waterproof pac-boots • hard hat with chinstrap • goggles/safety glasses • ear plugs/hearing protection • yellow aramid shirts • aramid trousers • leather gloves • Wear additional PPE as identified by local conditions or material safety data sheet (MSDS). <p>Specifics concerning PPE may be found in the Interagency Standards for Fire and Aviation Operations. Any cold weather clothing should be aramid, cotton, or wool.</p>
Public Safety: N/A – There will be no members of the public in this area.

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

MEDICAL PLAN						
MEDICAL AID STATION, CLINICS, TRAUMA CENTERS OR HOSPITALS						
NAME OF CARE FACILITY	PHYSICAL ADDRESS	TRAVEL TIME (MINUTES) AIR/GND.		PHONE NUMBER	BURN CENTER (Check Y or No)	HELIPAD (Check Y or N)
Poudre Valley Hospital	1024 S. Lemay Ave. Fort Collins, CO 80524	10	40	(970) 495-7000	N	Y
Medical Center of the Rockies	2500 Rocky Mountain Ave. Loveland, CO 80538	15	60	(970) 624-2500	N	Y
North Colorado Medical Center	1801 16 th St. Greeley, CO 80631	20	80	(970) 352-4121	Y	Y
AIR AND GROUND PATIENT TRANSPORTATION						
NAME OF TRANSPORT AGENT	PHYSICAL ADDRESS	PHONE NUMBER		PARAMEDICS (Check Y or N)		
Poudre Valley Hospital Ambulance Service	415 S. Bryan, Fort Collins, CO 80521	(970) 484-1227		Y		
Air Life Denver Helicopter	Frederick-Firestone Fire Station #2 3991 Rowe Street Firestone, CO 80504	(303) 360-3400		Y		
MEDICAL EMERGENCY PROCEDURES						
<p>All major medical incidents will be reported through the appropriate dispatch - declare "Medical Emergency, please clear the air". Provide dispatch with the type(s) of injury, # of persons injured, and basic vital signs. Utilize on-site EMTs and/or first aid treatment to stabilize and comfort the patient(s). Medevac helispot(s) should be previously identified and will be a minimum of 100' X 100' in size and advise dispatch of obvious flight hazards (e.g. power lines). For minor injuries, transport the injured to the nearest medical facilities via project vehicles. Contact dispatch for logistical support. Relay to dispatch "Non-emergency" if appropriate. Note: Other helicopters may land at hospital helipads, however these hospital helipads often need a minimum of 10 minutes notice to clear the pad. Utilize zone dispatch for initial order of air-evac transportation.</p>						
DIRECTIONS FROM NEAREST MEDICAL FACILITY TO PROJECT VIA GROUND TRANSPORTATION						
<p>Exit main hospital and take a left on Lemay Ave heading south for 0.3 miles. Turn right on Prospect Rd. and travel for 3 miles. Take a left on Taft Hill Road and continue for 2.5 miles. Turn right on 38-E and follow for 5.7 miles along Horsetooth Reservoir. Turn right and continue on Minute Man Dr/Shoreline Dr/CR-25G and follow about 1 mile. Turn left at gate to Towers Road to the base of Horsetooth Mountain Open Space.</p>						
LATITUDE/LONGITUDE AND GROUND CONTACT FREQUENCY OF PROJECT MEDIVAC HELISPOTS						
Intersection of Towers Road and Mill Creek Trail						
LATITUDE:	N 40° 33' 12"	LONGITUDE:	W 105° 11' 44"	FREQUENCY:	FERN1, 154.2800	
LATITUDE:		LONGITUDE:		FREQUENCY:		

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

COMMUNICATIONS PLAN					
ASSIGNMENT	RX FREQ.	TX FREQ.	TX TONE	Digital or Analog	REMARKS
Tactical	151.3400	151.3400		Analog	CSFS Tac
Dispatch	169.1750	169.9750	123.0	Analog	Buckhorn Repeater
Air / Ground					
Air Guard	168.625	168.625	None	Analog	Used for initial contact of aircraft only
FERN	154.280	154.280	None	Analog	

PROJECT CELLULAR PHONES	
PERSONNEL NAME	CELL PHONE NUMBER
Boyd Lebeda	(970) 222-8693

SPECIAL INSTRUCTIONS
The project cell phone number portion will be completed during the morning briefing. Cell phones are not to be considered a substitute for adequate radio communications.

IGNITION PLAN	
Ignition Method(s):	Drip Torch/Fusee, dot firing technique at pile base
NARRATIVE OF IGNITION PLAN AND ASSIGNMENTS	
<p>Ignition will begin at south end of pile locations (furthest from staging areas) and progress north along road to allow consumption of materials farthest away from staging areas first.</p> <p>Two igniters will be used but more could aid in efficiency, particularly at the bone piling/cleanup stage. Burn boss will provide supervision, act as communication link with necessary parties, observe and document activities and progress, monitor smoke impacts, and call fire(s) out.</p>	
SPECIAL INSTRUCTIONS	
None.	

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

ESCAPED FIRE ANALYSIS AND ACTION PLAN	
Date/Time:	
TRIGGER MECHANISMS	
ESCAPED FIRE TRIGGERS:	<ol style="list-style-type: none"> 1. Any fire off the CSURF Horsetooth Property 2. If creep or surface fire spread occurs which cannot be contained within 4 hours after transitioning to suppression mode 3. Any fire that exceeds the capability of the crew on scene.
TRIGGERS TO CEASE IGNITIONS:	<ol style="list-style-type: none"> 1. Significant loss of snow cover during ignitions 2. Smoke significantly impacting homes 3. As determined by Burn Boss

INITIAL ESCAPED FIRE ACTION PLAN			
<p>INITIAL ESCAPED PRESCRIBED FIRE ACTION PLAN: This plan is developed to consider the initial action response from fire and resource management personnel in the event the fire can no longer be managed as a prescribed burn. The events or conditions which lead the prescribed fire's command staff to make this determination in addition to an obvious escape outside of the 1° and 2° areas are called "Trigger Points" and must be identified. In the event a prescribed fire becomes a wildfire, the following procedures will be initiated:</p> <ol style="list-style-type: none"> 1. The Burn Boss or other qualified individual will assume the role of Incident Commander (I.C.) and notify the appropriate dispatch of the situation. 2. The I.C. will notify the State Office Fire Duty Officer (970 222-2784). The I.C. will keep them informed of all actions taken. 3. The following table contains a list of recommended initial resources that may be ordered by the Incident Commander via Dispatch. These resource types and quantities are in-part derived from fire behavior calculations, risk assessments and holding force development processes, etc. It should be stressed to all personnel associated with the project that this list is only a guide and does not imply that these resources are required to implement the project. Professional judgment and experience should be utilized. 			
RECOMMENDED INITIAL RESOURCE ORDER			
SUGGESTED RESOURCE	DESIRED RESPONSE TIME TO INCIDENT (hours)	SUGGESTED RESOURCE	DESIRED RESPONSE TIME TO INCIDENT (hours)
Larimer County Type 6X	30 min.		
PFA Type 6X	30 min.		

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

BRIEFING OUTLINE

- ☒ **Burn Organization**
 - Organization Chart / Personnel Assignments
 - Equipment Assignments
 - Other Resources
- ☒ **Burn Objectives**
- ☒ **Description of Burn Area**
 - Review Map of Burn / Topographical Features / Acreage
 - Values at Risk
 - Problem Areas
 - Roads & Access
 - Water Sources / Helispots / Staging Areas / etc.
 - Natural and man-made barriers
- ☒ **Predicted Weather & Fire Behavior**
 - Wind direction and speed
 - Relative humidity (maximums and minimums)
 - Temperature (maximums and minimums)
 - Fuel moisture
 - Atmospheric stability / Smoke dispersion
 - Predicted changes
 - Prescription parameters
 - Intensity, Flame Lengths
- ☒ **Communications**
 - Procedures
 - Frequencies / channels / cellular phones
 - Ignition Crew
 - Holding Resources
 - Dispatch
 - Aircraft
 - Cooperators / Others
- ☒ **Firing Sequence**
 - Test burn
 - Ignition equipment (Type, number, etc.)
 - Pattern & Sequence of Firing (Map)
- ☒ **Escaped Prescribed Fire Plan**
 - Slop-over vs. Escape (Trigger points)
 - Personnel assignments
 - Strategy
 - Tactics
- ☒ **Safety**
 - Inspect PPE
 - LCES
 - Hazards/Mitigations (Footing, natural, man-made, smoke [visibility], etc.)
 - Potential problems
 - Review project specific medivac plan
 - Review Aviation Safety Plan if applicable

BC 2/9/12

Sign In for Briefing Attendees:

CSURF Horestooth Piles Burn Plan, page 14
CSFS #170 Piles (Revised 7-2009)

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

Date:

<u>GO/NO-GO CHECKLIST</u>		YES	NO
A. Has the burn unit experienced unusual drought conditions or contain above normal fuel loadings which were not considered in the prescription development? If NO proceed with checklist., if YES go to item B.			✓
B. If YES have appropriate changes been made to the Ignition and Holding plan and the Mop Up and Patrol Plans? If YES proceed with checklist below, if NO STOP.			
YES	NO		
✓		Are ALL of the fire prescription elements met?	
✓		Are ALL of the smoke management specifications met?	
✓		Have ALL of the required current and projected fire weather forecasts been obtained and are they favorable?	
✓		Are ALL of the required operations personnel and equipment on-site, available, and operational?	
✓		Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?	
✓		Have all the pre-burn considerations identified in the Prescribed Fire Plan been completed or addressed?	
✓		Have ALL of the required notifications been made?	
✓		Are ALL of the permits and clearances obtained?	
✓		In your opinion, can the burn be carried out according to the Prescribed Fire Plan and will it meet the planned objective?	

If all the questions were answered "YES" proceed with a test fire. Document the current conditions, location, and results.

Bydoo Lubeda
Burn Boss

2/9/12
Date

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

TEST FIRE DOCUMENTATION			
LOCATION OF TEST FIRE			
Pile along trail south of towers site.			
WEATHER CONDITIONS ON SITE		RESULTS OF TEST FIRE	
Temperature	40°	Flame Length	~4'
RH	37%	Smoke Dispersal	Fair
Wind Speed	165	Consumption	Good - fairly slow
Wind Direction	SE		
DOES THE TEST FIRE MEET PRESCRIPTION PARAMETERS?		YES	NO
			✓
COMMENTS			
~ 18" of snow cover			
Boyd O Lebeda Boyd O. Lebeda		2/9/12	1030
BURN BOSS SIGNATURE & PRINTED NAME		DATE	TIME (24 Hour)

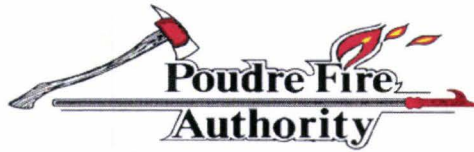
Colorado State Forest Service
Pile Burning Prescribed Fire Plan

PRESCRIBED FIRE REPORT							
PROJECT NAME:	CSURF Horsetooth Piles						
BURN UNIT(s):	Towers						
DATE BURNED:	2/9/12						
PREPARED BY:	Boyd Lebeda						
PERSONNEL ASSIGNED		OPERATIONAL POSITION			EQUIPMENT ASSIGNED		
Lebeda		RxB3					
Selby, Zausen, Mason, DiCastina		FRTZ's			firing tools + hand tools		
Tony Simons + 4		Crew			Snow cat		
WEATHER CONDITIONS							
UNIT NAME OR NUMBER	TEMPERATURE	RELATIVE HUMIDITY	MID-FLAME WINDSPEED	WIND DIRECTION(s)	CLOUD COVER	HAINEY INDEX	OTHER
@1030	40	37	1	SE	80%	—	
OBJECTIVE ACCOMPLISHMENTS (List by each prescribed burn objective stated for this plan)							
All piles in planned area were burned to 95% plus consumption							
SMOKE DISPERSAL AND DURATION							
SE wind was light + consistent most of the day - periods of wind switching - overall successful smoke dispersal							
RECOMMENDATIONS FOR FUTURE BURNING							
Piles constructed on areas w/ adjacent down logs. the down logs on one pile burned + produced smoke through the night.							
TOTAL ACRES/PILES BURNED:		5 Ac 48 piles					
CERTIFIED BY:		Boyd Lebeda					
1 - Repeat as needed for burning of different units or same unit on different days							
2 - The Prescribed Fire Report and Actual Project Costs forms must be completed and submitted to the State Office Fire Division within 30 days of burn.							

Reset

Print

PERMIT
ISSUED BY THE



PERMIT #:
11-287

BURN TYPE:
SLASH

THIS PERMIT ISSUED FOR

OPEN BURNING

IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE INTERNATIONAL FIRE CODE
AND THE POUDE FIRE AUTHORITY'S OPEN BURNING POLICY.

PERMIT ISSUED TO:

BOYD LEBEDA. (CSFS)

Name of Permit Holder

5060 CAMPUS DELIVERY, FC CO 80523-5060

222-8693

Address

Phone

HORSETOOTH MOUNTAIN PARK - NEAR RADIO TOWERS

Location Open Burning Will Take Place

1. You must notify Fire Dispatch 970-416-2600 on the day of and immediately before burning. You must also notify Fire Dispatch upon completion of the burn.
2. You, or a competent and non-impaired person appointed by you, must constantly and physically attend to the fire with appropriate and adequate extinguishing equipment available and ready for immediate use. This permit must be in your, or the person attending the fire, possession at all times during the burn.
3. You shall not burn when *current* or *expected* winds exceed 10 miles per hour.
4. You must conduct any burn a minimum of 50 feet away from any structure or other combustible material.
5. You must ensure the burn being conducted is free of rubber, tires, plastics, wire insulation, household rubbish or refuse, paper, cardboard, furniture, construction debris, fencing, treated wood, grass, leaves, yard waste, or any other smoke producing material.
6. Tree limbs shall not exceed four inches in diameter.
7. You shall only burn between sun-up to sundown unless the permit states otherwise. Fires must be fully extinguished by dark. Exceptions are cooking, recreational fires, and bonfires.
8. The above criteria apply to all burns including agricultural burns.
9. Violation of the above conditions can be cited under Colorado Statute and the International Fire Code in accordance with City of Fort Collins, Town of Timnath, and Larimer County code adoptions.

Fire Prevention Bureau (970) 221 6570

12/16/11

Date issued

12/16/11 - 12/31/11

Effective dates

Additional Requirements

Stan Brany, AFM

Fire Prevention signature

THIS PERMIT SHALL BE KEPT ON YOUR PERSON WHILE CONDUCTING OPEN BURNING, SHALL BE SUBJECT TO INSPECTION, AND SHALL NOT BE TRANSFERABLE. THIS PERMIT MAY BE REVOKED AT ANY TIME BY THE POUDE FIRE AUTHORITY IF PUBLIC INTEREST WARRENTS IT. THE HOLDER OF THIS PERMIT IS THEREFORE CAUTIONED AND CHARGED THAT HE/SHE ALONE ASSUMES FULL RESPONSIBILITY TO EXERCISE THE UTMOST CARE AND JUDGEMENT BEFORE IGNITING FIRES.

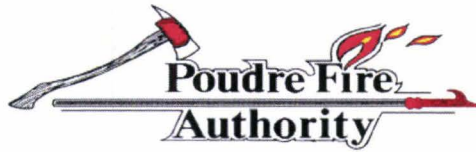
Fire Weather Forecast:

www.crh.noaa.gov/bou/firewx/fire_mainmap.php
select zone 215 above 6000' or zone 238 below 6000'

Reset

Print

PERMIT ISSUED BY THE

PERMIT #:
11-287BURN TYPE:
SLASH

THIS PERMIT ISSUED FOR OPEN BURNING

IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE INTERNATIONAL FIRE CODE
AND THE POUDRE FIRE AUTHORITY'S OPEN BURNING POLICY.

PERMIT ISSUED TO:

BOYD LEBEDA. (CSFS)

Name of Permit Holder

5060 CAMPUS DELIVERY, FC CO 80523-5060**222-8693**

Address

Phone

HORSETOOTH MOUNTAIN PARK - NEAR RADIO TOWERS

Location Open Burning Will Take Place

1. You must notify Fire Dispatch **970-416-2600** on the day of and immediately before burning. You must also notify Fire Dispatch upon completion of the burn.
2. You, or a competent and non-impaired person appointed by you, must constantly and physically attend to the fire with appropriate and adequate extinguishing equipment available and ready for immediate use. This permit must be in your, or the person attending the fire, possession at all times during the burn.
3. You shall not burn when **current** or **expected** winds exceed 10 miles per hour.
4. You must conduct any burn a minimum of 50 feet away from any structure or other combustible material.
5. You must ensure the burn being conducted is free of rubber, tires, plastics, wire insulation, household rubbish or refuse, paper, cardboard, furniture, construction debris, fencing, treated wood, grass, leaves, yard waste, or any other smoke producing material.
6. Tree limbs shall not exceed four inches in diameter.
7. You shall only burn between sun-up to sundown unless the permit states otherwise. Fires must be fully extinguished by dark. Exceptions are cooking, recreational fires, and bonfires.
8. The above criteria apply to all burns including agricultural burns.
9. Violation of the above conditions can be cited under Colorado Statute and the International Fire Code in accordance with City of Fort Collins, Town of Timnath, and Larimer County code adoptions.

Fire Prevention Bureau (970) 221 6570

12/16/11

Date issued

12/16/11 - 12/31/11

Effective dates

Additional Requirements

Fire Prevention signature

THIS PERMIT SHALL BE KEPT ON YOUR PERSON WHILE CONDUCTING OPEN BURNING, SHALL BE SUBJECT TO INSPECTION, AND SHALL NOT BE TRANSFERABLE. THIS PERMIT MAY BE REVOKED AT ANY TIME BY THE POUDRE FIRE AUTHORITY IF PUBLIC INTEREST WARRENTS IT. THE HOLDER OF THIS PERMIT IS THEREFORE CAUTIONED AND CHARGED THAT HE/SHE ALONE ASSUMES FULL RESPONSIBILITY TO EXERCISE THE UTMOST CARE AND JUDGEMENT BEFORE IGNITING FIRES.

Fire Weather Forecast:

www.crh.noaa.gov/bou/firewx/fire_mainmap.php
select zone 215 above 6000' or zone 238 below 6000'

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

SMOKE PERMIT APPLICATION FORMS



LC Environmental Health - 498-6775
LC Emergency Services - 498-5301

GENERAL OPEN BURN PERMIT

This permit must be in your possession each day ignition occurs. This permit is valid for daylight burning only, all fires must be completely out by dusk.

Name: Colorado State Forest Service
Day Phone: 970-491-8660 Home Phone:
Mailing Address: 5060 Campus Delivery, Fort Collins 80523

Permit ID: 3189

Location: SW 1/4 NE 1/4 S-26 T-7N R-70W,

Directions: Property is owned by Colorado State University Research Foundation (CSURF) on Towers Road. To access, take Shoreline Dr/CR-25G to Towers Road gate at the base of Horsetooth Mountain Open Space (HTMOS). Enter gate and follow Towers Road through HTMOS. Property is located at top of ridge and surrounded by HTMOS on north, east and south sides and by Redstone Canyon private lands to the west.

Date(s): Oct 1, 2011 - May 1, 2012

Material: Slash

Amount: 30

Invalid after: May 1, 2012

Special Instructions:

From Larimer County Department of Health and Environment (970-498-6775) - approved on 09/29/2011:
No burning of trash or stumps allowed.

From Larimer County Sheriff (970-498- 5302) - approved on 09/30/2011:
This permit is only valid from October 1, 2011 through May 1, 2012. PERMIT HOLDER MAY BURN TREE SLASH ONLY. No trash, stumps or construction materials. There must be 3 or more inches of snow cover around piles and winds less than 7mph before burning. Please follow all burning guidelines. - JLW

ALL REGULATIONS SHALL APPLY

ON THE DAY OF THE BURN, PLEASE NOTIFY THE FOLLOWING:

Larimer County Communications Center: 970-416-1985

Fire Protection District Listed Above

For guidelines on burning slash, see http://www.larimer.org/burnpermit/slash_burning_guidelines.htm

Are You FIREWISE? See <http://larimer.org/wildfire/>

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

ESTIMATED COSTS AND FUNDING SOURCES		
COSTS	Estimated	Actual
Planning	\$150	4 hr @ 18.20 = \$72.80
Site Preparation, Mechanical	N/A	
Site Preparation, Black-Lining	N/A	
Burn Execution	\$200	5 @ 8 hrs @ 20.70 = \$828
Mop-Up	\$200	2 @ 5 hrs @ 20.70 = \$207
Patrol	\$200	1 @ 3 hrs @ 20.70 = \$62.10
Monitoring and Evaluation	\$50	w/ patrol
Administrative	\$50	covered
TOTAL COST	\$850	\$1077
Cost/Acre	\$170	\$215
Cost/Pile	\$28.33	48 piles \$22.43

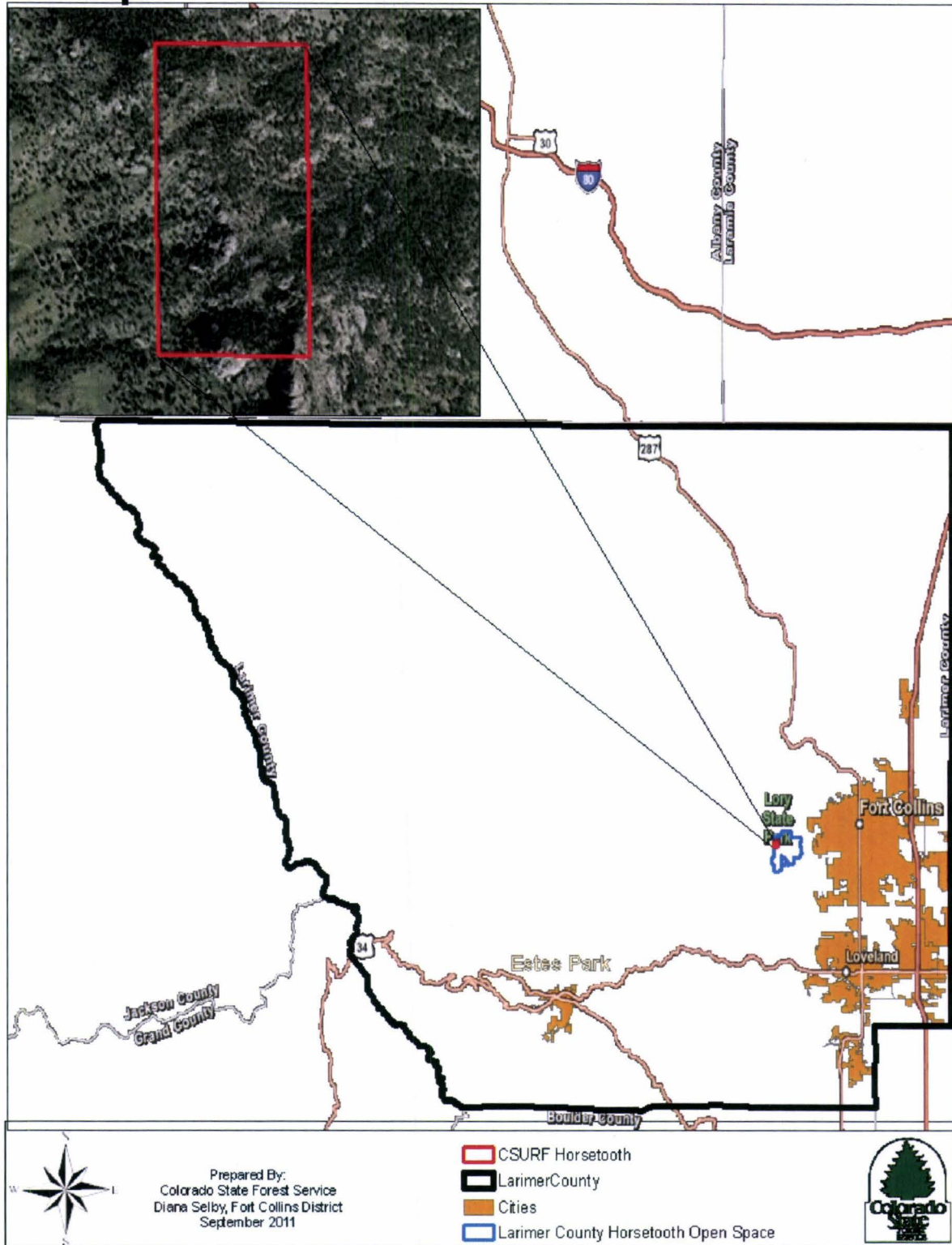
FUNDING SOURCES		Amount
Source		
Fort Collins District 22 Fund		\$850
+ Various other CSFS Funds		\$1077
TOTAL FUNDS		\$1077 \$850

Colorado State Forest Service
Pile Burning Prescribed Fire Plan

MAPS

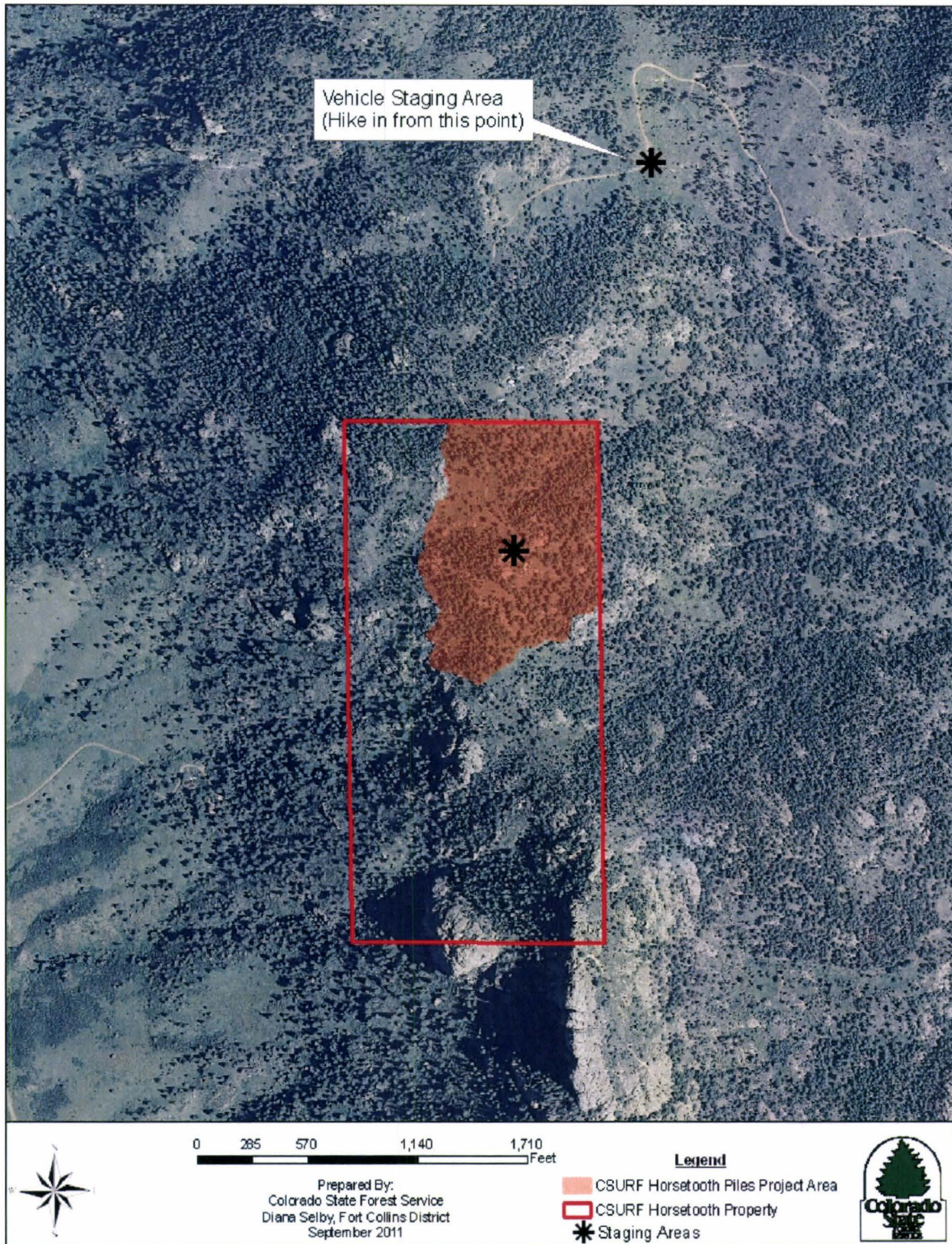
PROJECT MAP

Map 1. CSURF Horsetooth Piles Location



VICINITY MAP

Map 2. CSURF Horsetooth Piles Project Map



Colorado State Forest Service
Pile Burning Prescribed Fire Plan

DOCUMENTED CHANGES TO APPROVED BURN PLAN		
Affected Area of Plan:	Page #, Section, Title, etc. <i>Page 3 Complexity Analysis - Constraints</i>	
Proposed Change:	<i>Larimer County provided transport via snowcat on day of Burn</i>	
Reason for Change:	<i>Attempts to plow road were not successful.</i>	
Burn Boss' Comments and Date Requested:	<i>County offered + DF accepted. Alternate Plan was to hike from adjacent property.</i>	
Fire Division Comments Comments & Date Reviewed:		
Reviewed and Approved by:		
Signature and Printed Name:	Title:	Date:
<i>Bardo Lebeda Bardo Lebeda</i>	District Forester	<i>2/9/12</i>
	FMO	
1 - A copy of this approved form must be added to the original burn plan and files, along with any changed/revised sections of the burn plan.		

SERVICE AGREEMENT

CSU Property

OTHER ATTACHMENTS



Colorado State Forest Service
Pile Burning Prescribed Fire Plan



Colorado State Forest Service
Pile Burning Prescribed Fire Plan





LC Environmental Health - 498-6775
LC Emergency Services - 498-5301

GENERAL OPEN BURN PERMIT

This permit must be in your possession each day ignition occurs. This permit is valid for daylight burning only, all fires must be completely out by dusk.

Name: Colorado State Forest Service

Day Phone: 970-491-8660 Home Phone:

Mailing Address: 5060 Campus Delivery, Fort Collins 80523

Permit ID: 3189

Location: SW 1/4 NE 1/4 S-26 T-7N R-70W,

Directions: Property is owned by Colorado State University Research Foundation (CSURF) on Towers Road. To access, take Shoreline Dr/CR-25G to Towers Road gate at the base of Horsetooth Mountain Open Space (HTMOS). Enter gate and follow Towers Road through HTMOS. Property is located at top of ridge and surrounded by HTMOS on north, east and south sides and by Redstone Canyon private lands to the west.

Date(s): Oct 1, 2011 - May 1, 2012

Material: Slash

Amount: 30

Invalid after: May 1, 2012

Special Instructions:

From Larimer County Department of Health and Environment (970-498-6775) - approved
No burning of trash or stumps allowed.

From Larimer County Sheriff (970-498-5302) - approved on 09/30/2011:

This permit is only valid from October 1, 2011 through May 1, 2012. PERMIT HOLDER MAY BURN TREE SLASH ONLY. No trash, stumps or construction materials. There must be 3 or more inches of snow cover around piles and winds less than 7mph before burning. Please follow all burning guidelines. - JLW

ALL REGULATIONS SHALL APPLY

ON THE DAY OF THE BURN, PLEASE NOTIFY THE FOLLOWING:

Larimer County Communications Center: 970-416-1985

Fire Protection District Listed Above

For guidelines on burning slash, see http://www.larimer.org/burnpermit/slash_burning_guidelines.htm

Are You FIREWISE? See <http://larimer.org/wildfire/>

Charlie

498-5606

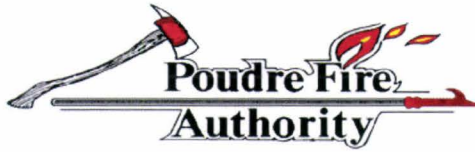
~~0112~~

1201

Reset

Print

PERMIT
ISSUED BY THE



PERMIT #:
11-287

BURN TYPE:
SLASH

THIS PERMIT ISSUED FOR

OPEN BURNING

IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE INTERNATIONAL FIRE CODE
AND THE POUDRE FIRE AUTHORITY'S OPEN BURNING POLICY.

PERMIT ISSUED TO:

BOYD LEBEDA. (CSFS)

Name of Permit Holder

5060 CAMPUS DELIVERY, FC CO 80523-5060

222-8693

Address

Phone

HORSETOOTH MOUNTAIN PARK - NEAR RADIO TOWERS

Location Open Burning Will Take Place

1. You must notify Fire Dispatch **970-416-2600** on the day of and immediately before burning. You must also notify Fire Dispatch upon completion of the burn.
2. You, or a competent and non-impaired person appointed by you, must constantly and physically attend to the fire with appropriate and adequate extinguishing equipment available and ready for immediate use. This permit must be in your, or the person attending the fire, possession at all times during the burn.
3. You shall not burn when *current* or *expected* winds exceed 10 miles per hour.
4. You must conduct any burn a minimum of 50 feet away from any structure or other combustible material.
5. You must ensure the burn being conducted is free of rubber, tires, plastics, wire insulation, household rubbish or refuse, paper, cardboard, furniture, construction debris, fencing, treated wood, grass, leaves, yard waste, or any other smoke producing material.
6. Tree limbs shall not exceed four inches in diameter.
7. You shall only burn between sun-up to sundown unless the permit states otherwise. Fires must be fully extinguished by dark. Exceptions are cooking, recreational fires, and bonfires.
8. The above criteria apply to all burns including agricultural burns.
9. Violation of the above conditions can be cited under Colorado Statute and the International Fire Code in accordance with City of Fort Collins, Town of Timnath, and Larimer County code adoptions.

Fire Prevention Bureau (970) 221 6570

12/16/11

Date issued

12/16/11 - 12/31/11

Effective dates

Additional Requirements

Stanley, AFM

Fire Prevention signature

THIS PERMIT SHALL BE KEPT ON YOUR PERSON WHILE CONDUCTING OPEN BURNING, SHALL BE SUBJECT TO INSPECTION, AND SHALL NOT BE TRANSFERABLE. THIS PERMIT MAY BE REVOKED AT ANY TIME BY THE POUDRE FIRE AUTHORITY IF PUBLIC INTEREST WARRENTS IT. THE HOLDER OF THIS PERMIT IS THEREFORE CAUTIONED AND CHARGED THAT HE/SHE ALONE ASSUMES FULL RESPONSIBILITY TO EXERCISE THE UTMOST CARE AND JUDGEMENT BEFORE IGNITING FIRES.

Fire Weather Forecast:

www.crh.noaa.gov/bou/firewx/fire_mainmap.php
select zone 215 above 6000' or zone 238 below 6000'

ANSWERS TO YOUR BURNING QUESTIONS

How to Get a Burn Permit

1. Obtain a burn permit application from Larimer County Department of Health and Environment (LCDHE). Call 498-6775 to find out how to get an application.
2. Allow LCDHE a minimum of 24 hours to evaluate and process the application.
3. Contact LCDHE to see if the permit has been approved or denied. Some applications require a visit from the health department; all permits require fire authority approval.
4. Contact the local fire authority. They have final approval determination on the application based on their fire restrictions.
5. Once approved, call the appropriate communication center just prior to burning. This will prevent the fire department from having to unnecessarily respond to a fire at the location of your approved burn.
6. Keep a copy of your burn permit on site when you are burning. **A valid permit will have signatures from both the health department and the fire department.**
7. Call the communication center to notify them when you are finished burning.

Air Quality

Most outdoor burning in Larimer County requires a permit signed by both the Fire Department and the Health Department. The fire department evaluates applications for potential fire safety issues, while the health department evaluates applications for air quality issues that can impact human health. For example, open burning releases fine particulates that can aggravate chronic lung diseases and carbon monoxide that can prevent the transport of oxygen in the blood.

Open burning in Larimer County is regulated by the Colorado Department of Public Health and Environment/Air Pollution Control Division and Larimer County Department of Health and Environment under Colorado Air Quality Control Commission's Regulation One. Open burning without a permit is illegal and can result in fines of up to \$10,000 per day. Go to: <http://www.cdphe.state.co.us/ap/stationary.asp>

Exemptions

Some burning activities do not require a permit from the Health Department. These include:

- ⇒ recreational or cooking fires
- ⇒ flares
- ⇒ agricultural burning
- ⇒ irrigation ditches

These activities may still require a permit from the Fire Authority. Contact them prior to burning.



Prohibited Materials

- ⇒ Routine yard and garden clean-up waste
- ⇒ Structures
- ⇒ Construction debris
- ⇒ Household garbage
- ⇒ Materials that produce excessive smoke (plastic, wire, tires, wet grass, leaves, etc.)
- ⇒ Commercial/Business waste
- ⇒ Stumps

Safety Guidelines

- ⇒ Pile debris in open areas away from standing timber and structures.
- ⇒ Piles should be no larger than 8 feet wide and 6 feet high.
- ⇒ There must be a minimum of 3 inches of snow cover around piles.
- ⇒ Winds should be less than 10 mph. Check the weather forecast to avoid burning during high winds or extremely dry conditions.
- ⇒ Always have water, a rake, and a shovel available.
- ⇒ Attend all fires until completely out.
- ⇒ All burning must be extinguished by nightfall.

Slash Burning

Slash burning in the foothills and mountains should be done during damp conditions or when good snow cover exists. These burn permits are issued between **October 1 and April 1.**

Important Phone Numbers

☎ Larimer County
Department of Health & Environment
498-6775
Emergency Services
498-5301
Wildfire Safety Coordinator
498-7718
Communication Center
416-1985

☎ Fort Collins Area
Poudre Fire Authority
221-6570
Communication Center
416-2600

☎ Loveland
Fire and Rescue
962-2518
Communication Center
667-2151

☎ Berthoud
Fire Protection District
532-2264

☎ Estes Park
Volunteer Fire Department
557-0900
Communication Center
586-4000

Your fire protection district is shown on the permit.

All applicants must notify the appropriate communication center prior to each permitted burn.



Are You FIREWISE?

Larimer County
Department of Health & Environment
1525 Blue Spruce Dr.
Fort Collins, CO 80524

Open Burning Requirements and Guidelines



Larimer County Department of Health and Environment
1525 Blue Spruce Drive
Fort Collins, CO 80524
970/498-6775



Forest Slash Burning Guidelines

These guidelines are to be used by forest landowners, land managers, and fire department personnel in Larimer County in planning and conducting safe and effective forest slash burning in woodland situations. It cannot guarantee safety from accidents, unforeseen circumstances, changing burning conditions, or negligent actions of the individual(s) burning slash. By following the intent of these guidelines and common sense, the landowner or forest manager can reduce forest slash accumulations, improve the appearance of their forest land, and reduce wildfire risk on their properties.



Definitions

Slash

The accumulation of limbs, tops, and miscellaneous residue left by forest management activities, such as thinning, pruning, and timber harvesting.

Piling and burning

The treatment of slash by piling the limbs and tops into manageable piles. Piles are burned during safe burning conditions, generally during the winter following cutting.

Broadcast burning

The treatment of slash by burning the limbs and tops as they lie on the ground after cutting. The slash must be distributed continuously throughout the burn area to be burned effectively. Burning is generally done during very wet periods or with light snow cover in late fall or early spring.

Mop-up

The final check of the burned slash to identify and extinguish still burning coals or materials. Extinguishment is usually accomplished by covering and mixing snow, water, or soil with the burning fuels.

Construction Of Piles

Pile slash immediately after cutting (while still green), and before winter snowfall. Remove all wood products such as firewood prior to piling. Pile branches and tops with the butt ends towards the outside of the pile, and overlapping so as to form a series of dense layers piled upon each other. Use a mixture of sizes and fuels throughout the pile. This prevents snow from filtering into the pile and extinguishing the fire while it is starting. Piles should be approximately 8 feet across in diameter and 6 feet in height, again to prevent drifting snow from entering the pile. Piles should be kept compact, with no long extensions, to reduce snow filtration and improve ignition. Do not place large stumps and sections of logs in the piles, as they will burn for extended periods and will frequently need to be mopped-up.

Do not include garbage or debris in the pile. Locate piles in meadows, rock outcrops, or openings in forest stands. Do not pile slash over stumps where possible, as these areas will also need to be mopped-up. Piles may be situated within forest stands, if they are at least 5 feet away from adjacent tree trunks and tree crowns do not hang over the piles.

Planning Your Burning Effort

Landowners must complete the following steps before burning slash:

1. Obtain and complete a general open burning permit from the Larimer County Department of Health and Environment, 1525 Blue Spruce Dr., Fort Collins, 80524, (970) 498-6775. The Health Dept. will review application and approve/disapprove permit and forward to the fire authority where the property is located for their approval.
2. Signed authorization and approval from the legally constituted Fire Protection District for your area, or from the Larimer County Sheriff's Department, Office of Emergency Services located at 1303 N. Shields St., Ft. Collins. (970) 498-5301 or 498-5300.

Open burn permits consist of 3 copies, and require the completion of information about the proposed burning. Upon completion of the permit and approval of the Health Department, approval from the responsible fire authorities is required. Upon their approval, the white copy of the permit is returned to the landowner, the yellow copy is retained by the responsible fire jurisdiction, and the pink copy is returned to the Health Department.

The landowner must notify the responsible fire protection agency the day burning is planned. Notification of the Larimer County Sheriff's Department, at (970) 416-1985, is also mandatory and should include the dates, times, and an exact legal description of the burn location. Neighbors should be informed prior to burning as well.

Burning must be done during suitable weather conditions. Periods of snow or light rain, with light winds (for smoke dispersal) and a minimum of 3 inches of snow cover are ideal. Do not burn during periods of high winds, low humidity or drying conditions, temperature inversions, and lack of snow cover or when these conditions are expected to develop after starting. Control of burning slash must be maintained at all times to reduce wildfire hazard and damage to residual trees. If snow cover becomes sparse during the burning period, additional water sources must be provided for wildfire control and mopping-up efforts. Persons conducting the burning should have at a minimum; leather gloves; shovels and mattocks; leather work boots; work clothing; masks or bandannas for covering the mouth and nose; and proper eye protection.

Burning Slash Piles

Piles may be ignited by several means. If the needles and fine fuels within the pile have dried out throughout the summer, then ignition can be easily started with a large ball of newspaper placed within the bottom of the pile. If fuels are still partially green, or the pile is wet from rain or melting snow, then a hotter and longer burning source may be necessary. Sawdust, saturated with diesel fuel and placed within the bottom of the pile, can be used. Flares used for highway emergencies can also be utilized to ignite the piles. **Do not use gasoline for this purpose!**

One pile should be burned first as a test pile to see how it burns and at what rate prior to igniting other piles. If suitable burning conditions exist, then additional piles may be started. Ignite only those piles that can be watched with the available manpower until the piles have burned down. Depending on weather conditions, pile size, and moisture content of the fuels, piles should burn down in 20 to 35 minutes. As a general rule, 3 to 6 piles per person is a manageable rate if piles are closely situated.

After the piles have burned down, re-pile any unburned slash and large wood chunks (called "chunking-in") into the beds of coals before starting any new groups of piles. Do not start any new piles after 2:00 p.m. Piles started after this time may continue to burn into the evening.

If landowners have questions about possible problems with burning slash, they should contact the Larimer County Sheriff's Department, Office of Emergency Services at 498-5300, 498-5302 or the Colorado State Forest Service, Fort Collins District Office at 491-8660. Information about wildfire hazard reduction for forest land is available from the Fort Collins District, CSFS at 491-8660.

Selby, Diana

From: Lebeda, Boyd
Sent: Wednesday, December 07, 2011 4:40 PM
To: Selby, Diana; Lopez, JANE
Subject: FW: Forestry Treatments on CSU Owned Parcels in the Horsetooth Mountain Area

Diana and Jane – this is the approval from CSURF for FC District to do work on the Horsetooth Parcels.

boyd

From: Hurt, Nancy [<mailto:Nancy.Hurt@ColoState.EDU>]
Sent: Monday, April 05, 2010 7:42 AM
To: Sundstrom, Gregory
Cc: Boyd O. Lebeda (blebeda@lamar.colostate.edu); Kugelman, Amy
Subject: RE: Forestry Treatments on CSU Owned Parcels in the Horsetooth Mountain Area

Greg –

I checked “up the chain” (which includes Mark Gill in the President’s Office) and received support and approval for you to move forward with your plan as outlined.

Please work with Amy Kugelman in our office to coordinate with the current tower lease holders as needed and to get the combination to the road gate as needed.

Thanks
Nancy

From: Sundstrom, Gregory
Sent: Friday, April 02, 2010 11:37 AM
To: Hurt, Nancy
Cc: Boyd O. Lebeda (blebeda@lamar.colostate.edu)
Subject: Forestry Treatments on CSU Owned Parcels in the Horsetooth Mountain Area

Nancy,

Following is the information for proposed forest management work on CSU property that we discussed this morning. Boyd Lebeda, Fort Collins District Forester, prepared the information and would be glad to answer any questions.

Boyd can be contacted at (970) 491-8660 or via email.

Boyd wrote:

"The Colorado State Forest Service (CSFS) Fort Collins District proposes to prepare a forest management plan and implement forest management treatment on CSU owned parcels in the Horsetooth Mountain area. The legal descriptions are:

T7N, R70W, Sec. 26, SW $\frac{1}{4}$ of the NE $\frac{1}{4}$
T7N, R70W, Sec. 26, NW $\frac{1}{4}$ of the SE $\frac{1}{4}$
T7N, R70W, Sec. 23, NE $\frac{1}{4}$ of the SE $\frac{1}{4}$

The proposed treatment is to thin approximately 22 acres of the mixed conifer forest type (ponderosa pine, Douglas-fir, lodgepole pine) to reduce wildfire fuels adjacent to the communications towers and to compliment treatments by neighboring landowners (Larimer County and Lory State Park). Mountain pine beetle affected trees would also be treated. Slash will be piled and burned under prescribed conditions by CSFS.

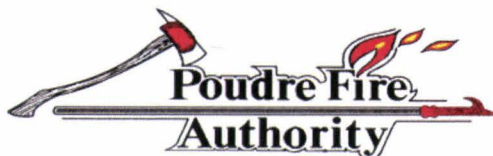
The project is funded by the American Recovery and Reinvestment Act of 2009 (ARRA). CSFS will conduct the forest management planning and oversight for the project. The Larimer County Emergency Services Mitigation Crew will do the cutting and slash piling. Anchor Point Group, LLC is the ARRA recipient and will handle contracting. CSFS will prepare a burn plan, obtain permits, and implement the pile burn. The project would be done at no cost to CSU.

The thinning and piling work will take approximately 4-6 weeks and be done during the summer or fall of 2010. Pile burning will be done in the winter of 2010-2011 as conditions allow (i.e. adequate snow cover and air quality conditions)."

Please respond to both Boyd and I when it has been determined whether or not the project has been approved by those that have decision making authority for the property. Thank you for your assistance.

Greg Sundstrom
CSFS
Forest Management
(970) 491-5342

PERMIT ISSUED BY THE



PERMIT #:
12-003

BURN TYPE:
SLASH

THIS PERMIT ISSUED FOR

OPEN BURNING

IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE INTERNATIONAL FIRE CODE
AND THE POUDRE FIRE AUTHORITY'S OPEN BURNING POLICY.

PERMIT ISSUED TO:

BOYD LEBEDA. (CSFS)

Name of Permit Holder

5060 CAMPUS DELIVERY, FC CO 80523-5060

222-8693

Address

Phone

HORSETOOTH MOUNTAIN PARK - NEAR RADIO TOWERS

Location Open Burning Will Take Place

1. You must notify Fire Dispatch 970-416-2600 on the day of and immediately before burning. You must also notify Fire Dispatch upon completion of the burn.
2. You, or a competent and non-impaired person appointed by you, must constantly and physically attend to the fire with appropriate and adequate extinguishing equipment available and ready for immediate use. This permit must be in your, or the person attending the fire, possession at all times during the burn.
3. You shall not burn when *current* or *expected* winds exceed 10 miles per hour.
4. You must conduct any burn a minimum of 50 feet away from any structure or other combustible material.
5. You must ensure the burn being conducted is free of rubber, tires, plastics, wire insulation, household rubbish or refuse, paper, cardboard, furniture, construction debris, fencing, treated wood, grass, leaves, yard waste, or any other smoke producing material.
6. Tree limbs shall not exceed four inches in diameter.
7. You shall only burn between sun-up to sundown unless the permit states otherwise. Fires must be fully extinguished by dark. Exceptions are cooking, recreational fires, and bonfires.
8. The above criteria apply to all burns including agricultural burns.
9. Violation of the above conditions can be cited under Colorado Statute and the International Fire Code in accordance with City of Fort Collins, Town of Timnath, and Larimer County code adoptions.

Fire Prevention Bureau (970) 221 6570

12/30/11

Date issued

1/1/12 -5/1/12

Effective dates

Additional Requirements

Fire Prevention signature

THIS PERMIT SHALL BE KEPT ON YOUR PERSON WHILE CONDUCTING OPEN BURNING, SHALL BE SUBJECT TO INSPECTION, AND SHALL NOT BE TRANSFERABLE. THIS PERMIT MAY BE REVOKED AT ANY TIME BY THE POUDRE FIRE AUTHORITY IF PUBLIC INTEREST WARRENTS IT. THE HOLDER OF THIS PERMIT IS THEREFORE CAUTIONED AND CHARGED THAT HE/SHE ALONE ASSUMES FULL RESPONSIBILITY TO EXERCISE THE UTMOST CARE AND JUDGEMENT BEFORE IGNITING FIRES.

Fire Weather Forecast:

www.crh.noaa.gov/bou/firewx/fire_mainmap.php
select zone 215 above 6000' or zone 238 below 6000'