Small Forest Landowner Assistance Program (SFLAP)

I. Project Summary

Introduction to SFLAP

The purpose of the Small Forest Landowner Assistance Program (SFLAP) is to provide no-cost treatments toward fire recovery and resilience to small, non-industrial, private landowners. The cost-share programs available to landowners currently exclude landowners with properties smaller than 20 acres, are cost-prohibitive to low-income households, and have low award rates. The Butte County Resources Conservation District (BCRCD) is in an ideal position to function as a "one-stop forest and fire resilience shop" because it serves as a CEQA lead agency, has grant writing and management capacity, can furnish prescribed fire technical assistance through its Prescribed Burn Association (PBA), and employs a Registered Professional Forester (RPF) with forestry technicians experienced in writing forest management plans and implementing forestry projects. The SFLAP program is a pilot program for Resource Conservation Districts across California to demonstrate the RCDs’ capacity to increase the pace and scale of forest health work in the state.

What SFLAP Does

Up to 10 acres of treatment units per landowner were identified by the RPF and the landowners. Recommended treatments include removal of large hazard trees, dead vegetation, and brush; thinning and pruning of desirable, resprouting hardwoods; disposing of woody residue either by chipping and hauling or prescribed fire (piles); fuel transformation either by tracked chipping or mastication; limbing up live trees; and—after the site has been prepped—conifer planting.

Current Conditions Description

The first round of SFLAP is in Berry Creek and includes 15 landowners for a total of 93 acres. Berry Creek was burnt at high to moderate severity in the North/Bear Complex Fire of 2020. In this planning phase of the program, treatment unit conditions have been summarized as **Extreme, High, Moderate**, and **Low** as well
as units where Hazard Tree Removal is the only treatment. Descriptions of these terms are as follows:

- **Extreme**: High density of large-diameter hazard trees (3-year-old dead trees with varying levels of decay and wind damage at approximately 150 TPA in the overstory, 800 in the understory, and BA of 300), vigorous hardwood resprouts and high brush density contributing to 100% ground cover, large amounts of downed woody debris. Conditions are often complex with water features, large amounts of rock, and moderately steep slopes.
- **Heavy**: Same description as Extreme, however, large hazard trees are at a lower density (approximately 100 TPA overstory, 400 TPA understory, and BA of 200), but there remains a high density of dead trees throughout the size classes.
- **Moderate**: Some large hazard trees, mostly small to mid-diameter dead trees (50 TPA overstory, 200 TPA understory, and BA of 150), hardwoods and brush account for 60% ground cover, conditions more conducive to machine work.
- **Low**: Hazard tree density is moderate to low, live trees need to be limbed up, thinning needed for dead and dying trees 20” and smaller.
- **Hazard Tree Removal**: Isolated hazard trees either burnt or beetle-killed. Need felling and removal.

<table>
<thead>
<tr>
<th>Treatment Type</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme</td>
<td>42.1</td>
</tr>
<tr>
<td>Heavy</td>
<td>32.7</td>
</tr>
<tr>
<td>Moderate</td>
<td>6.5</td>
</tr>
<tr>
<td>Low</td>
<td>2.6</td>
</tr>
<tr>
<td>Hazard Tree</td>
<td>8.1</td>
</tr>
</tbody>
</table>

Species of hazard trees are listed from highest to lowest occurrence: Ponderosa Pine, Tan Oak, Incense Cedar, Live Oak, Douglas Fir, Black Oak, Sugar Pine, and Maple.

II. Contractor Qualifications

The Contractor selected for the treatment of large, standing fuels must be a Licensed Timber Operator with a feedstock agreement with biomass facilities, firewood vendors, or other entities willing to take the removed woody material.
III. Contractor’s Obligations

The Bidder must analyze and respond to all sections for this Request for Proposals (RFP) providing sufficient information to allow the Butte County Resource Conservation District (BCRCD) to evaluate the proposals. The Contractor, by submitting its proposal, agrees that any costs incurred by the Contractor in responding to this RFP, are to be borne by the contractor and may not be billed to the BCRCD.

The Bidder must complete and submit all attachments, in the order listed. If the BCRCD has any confusion or difficulty in retrieving the required information from a Contractor’s bid, it may result in the disqualification of such bid.

IV. Proposal Submission Requirements

The Contractor should email, mail, or hand deliver their sealed proposal to the address listed below by Friday, August 11th at 1700, or COB.

Butte County Resource Conservation District
150 Chuck Yeager Way, Suite A
Oroville, CA 95965
Or
forestry@bcrcd.org

The envelope shall be plainly marked in the upper left-hand corner with the name and address of the bidder and shall bear the words “SFLAP, Berry Creek”

V. Critical Dates

A. Pre-proposal Site Visit (Bid Walk): **Tuesday, August 1 at 0900.** Contractors wishing to submit a proposal on this project must attend a mandatory pre-proposal meeting on Tuesday, August 1 at 0900 meeting at the Berry Creek Post Office: 5 Whispering Chapel Ln, Berry Creek, CA 95916.

B. Question Submission: **Friday August, 4 at 1700** Contractors may submit questions by email to cameron@bcrcd.org before Friday, August 4 at 1700. All pertinent questions will be answered and shared via email with all the other Contractors who attend the mandatory pre-proposal site visit. The contractor understands and agrees that it has a duty to inquire about and clarify any RFP questions that the Contractor does not fully understand or believes may be...
interpreted in more than one way. The BCRCD, however, is not required to answer
questions that are not pertinent to the RFP or are proprietary information.
Questions will be answered by **Monday, August 7 at 1700**.
Please address questions to:
    Cameron Musser
    Email: cameron@bcrcd.org

**C. Proposal Due Date: Friday, August 11 at 1700**
Proposals shall be received by the BCRCD on or before Friday, August 11 at 1700 at
the BCRCD address listed above. Late submissions will not be accepted.

**D. Contract Dates: After Notice to Proceed is issued through March 1, 2024.**
The Contractor shall not begin operation until the Notice to Proceed is issued. All
work shall be completed based on the phases outlined in the project specifications.
All work must be completed by **March 1, 2024**.

**VI. Contractual Commitment of Proposal**
The contents of submitted proposals will be considered the obligations of the successful
Contractor. No information should be submitted that is not intended to be incorporated
into the proposal and any contract which may result from such proposal. If there is any
inconsistency between the terms herein and any of the contract documents, the terms
in the contract documents shall prevail.

**VII. Scope of Work**

**A. Desired Conditions**
For each property, safety is of the highest concern—removing the threat of standing
dead trees is the program’s highest priority. Secondary is reducing future fire risk by
site prepping the properties through removal of biomass from the properties and/or
rearranging the fuels so that planting is feasible this following spring.

**B. Treatments**
The following types of treatments were offered to landowners upon signing up for
SFLAP. It is at the discretion of the RPF and Contractor—**ensuring compliance with**
the CA Forest Practice Rules—as to what equipment will implement the following tasks and where (while adhering to equipment exclusion zones*):

- **Felling of hazardous trees** of all diameter classes
- **Removal of non-merchantable saw logs**: either for firewood, biomass, or burning at an alternative location, for example.
- Brush, slash, and large, down woody **material removal or reduction**. Implementation examples are mastication, hand cut and chip, or hand cut and pile.
- **Pruning** of desirable resprouting hardwoods:
  - Removal of dead stem and all resprouts apart from 2-4 of the strongest leaders. Desirable species listed in descending prioritization: black oak/maple, madrone, live oak, and (if necessary for retention) tan oak.
  - Limbing living trees such that the canopy is at minimum 10 feet above the ground.
- **Hand piling** of brush and hazard trees 14 inches and below in equipment exclusion zones.

*Equipment exclusion zones outside of WPLZ currently being identified during summer 2023 archaeology survey season.

### C. Summary of resource protection project design features

- **Hydrological Resources**
  - WLPZs will remain flagged and buffered from mechanical work and use of accelerants. Buffer size outlined in table:

<table>
<thead>
<tr>
<th>Watercourse Classification</th>
<th>Slope 0-30%</th>
<th>Slope 30-50%</th>
<th>Slope &gt;50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I (Non-Anadromous)</td>
<td>75’</td>
<td>100’</td>
<td>150’</td>
</tr>
<tr>
<td>Ponds hosting fish</td>
<td>75’</td>
<td>100’</td>
<td>150’</td>
</tr>
<tr>
<td>Class II (including all springs with surface water)</td>
<td>50’</td>
<td>75’</td>
<td>100’</td>
</tr>
<tr>
<td>Class III</td>
<td>25’</td>
<td>50’</td>
<td>50’</td>
</tr>
</tbody>
</table>

- Leave an average of 50% of the canopy within the WLPZ for shade and bank stability- canopy shall be composed of at least an average of 25% of the existing overstory conifers.
- Broadcast/prescribed burns may only back into WLPZ buffer zones
- Heavy equipment shall be prohibited where any of the following conditions are present:
  - Slopes steeper than 50%.
  - Slopes steeper than 40% where the Erosion Hazard Rating is high or extreme.
• Cultural Resources
  ○ The boundaries of all cultural resources in the project area will be marked prior to vegetation clearing activities by a cultural resource specialist or their supervised designee.
  ○ The preferred treatment for archaeological/cultural resources is avoidance. If avoidance is not possible, then after the resource boundaries are marked/flagged the following activities are allowed but not required within the resource boundaries:
    ■ Hand cutting, if cut vegetation is carried out from site.
    ■ Directional felling of trees, and removal of felled trees by vehicles parked outside of resource boundaries (if trees are not dragged).
    ■ Prescribed burning (backing fire only, no use of accelerants) for non-flammable resources, e.g., ditches, stone tools. Prescribed burning is not allowed around flammable resources e.g., cabins.
  ○ The following activities are not allowed within the resource boundaries:
    ■ Pile burning
    ■ Ignition, head fire, or use of accelerants
    ■ Lop and scatter
    ■ Mechanical treatment by a masticator or any other vehicle
  ○ If hand cutting and or directional felling is planned for within the boundaries of prehistoric sites with house pits, midden, pits for dance houses, petroglyphs, or burials – a Native American monitor will be present during vegetation management activities.
  ○ If any new archaeological resources are inadvertently discovered during operations, CAL FIRE standard procedure will be followed (e.g. halting all work within 50 feet, contacting RPF who will contact the appropriate historical specialists and/or Tribes, etc.).
  ○ If human remains are located during any ground disturbing activity, all work within 50 feet shall stop and the area remain undisturbed until the County Coroner has been contacted and, if the human remains are determined to be of Native American origin, the NAHC and most likely descendant have been consulted (Butte County General Plan Policy COS.P16.4).

• Wildlife
  ○ For any implementation occurring Feb 1 - Sept 15, Nesting bird surveys will be conducted pre-implementation. Contractor must avoid wildlife buffers surrounding bird nests until after Sept 15 or after the nest has been proven vacant.
  ○ If a nest is identified during implementation, halt all work within 100 feet of the site and contact RPF.
  ○ If a den or nursery site of a fisher or other forest carnivore is discovered (or bat maternity site is discovered), halt all work within 100 feet of site and contact RPF who will follow CDFW protocol to buffer and avoid the site appropriately.
**Botany**
- If any sensitive plant species are identified before or during implementation of treatments, operators will avoid trampling species of concern or rare plants, by hanging equipment exclusion zone flagging (or using pin flags if more effective) and directing crews away from the site(s) to protect these species.

**D. Project Timeline**

Environmental compliance through CALFIRE permitting and CEQA NOE is anticipated for September 2023. Work may start late that September. The end date is subject to weather conditions, but completion before December 25, 2023, is ideal. Work rescheduled due to weather **must be completed by March 1, 2024.**

**E. Unit Descriptions**

<table>
<thead>
<tr>
<th>Treatment Type</th>
<th>Acres</th>
<th>Land Owner</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme</td>
<td>1.2</td>
<td>Bethune</td>
<td>Dense mid-sized hazard trees steep slope</td>
</tr>
<tr>
<td>Extreme</td>
<td>9.4</td>
<td>Mathies</td>
<td>High number of large DBH hazard trees; high brush; high complexity falling</td>
</tr>
<tr>
<td>Extreme</td>
<td>8.7</td>
<td>Mazzarino</td>
<td>High number of large DBH hazard trees; high brush and resprout density; large amount of rock and spring with wet area</td>
</tr>
<tr>
<td>Extreme</td>
<td>8.7</td>
<td>Perry</td>
<td>High number of large DBH hazard trees; high brush and resprout density; steeper with large amount of rock</td>
</tr>
<tr>
<td>Extreme</td>
<td>9.7</td>
<td>Rankin</td>
<td>High number of large DBH hazard trees, vigorous resprout and high density brush; steep with water features</td>
</tr>
<tr>
<td>Extreme</td>
<td>4.4</td>
<td>Wiley</td>
<td>High number of large DBH Hazard trees; high hardwood and brush density</td>
</tr>
<tr>
<td>Hazard Tree Removal</td>
<td>1.8</td>
<td>Bethune</td>
<td>Large diameter hazard trees with some brush</td>
</tr>
<tr>
<td>Hazard Tree Removal</td>
<td>6.0</td>
<td>Meyer/Lusk</td>
<td>Beetle-killed in 2021; 15-20&quot; DBH</td>
</tr>
<tr>
<td>Hazard Tree Removal</td>
<td>0.3</td>
<td>Porter</td>
<td>Live Oaks and Cedars</td>
</tr>
<tr>
<td>Heavy</td>
<td>5.0</td>
<td>Bell</td>
<td>Large number of large DBH hazard trees; high brush and resprout density; shallow slope with less rocks</td>
</tr>
<tr>
<td>Heavy</td>
<td>1.7</td>
<td>Bethune</td>
<td>Doug Fir 100% mortality high TPA</td>
</tr>
<tr>
<td>Heavy</td>
<td>4.2</td>
<td>Bethune</td>
<td>Moderate number of mid-size hazard trees; high density resprout and brush; steep with water features but many roads</td>
</tr>
<tr>
<td>Heavy</td>
<td>4.7</td>
<td>Carda</td>
<td>Large number of large DBH hazard trees; high brush and resprout density; shallow slope with less rocks</td>
</tr>
<tr>
<td>Heavy</td>
<td>7.5</td>
<td>Durham</td>
<td>Moderate number of large and small diameter hazards; thinning living material; pruning</td>
</tr>
<tr>
<td>Class</td>
<td>Value</td>
<td>Landowner</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------</td>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>Heavy</td>
<td>5.5</td>
<td>Leonard</td>
<td>Some large DBH Hazard trees; high amount of dead manzanita; moderate dead TPA</td>
</tr>
<tr>
<td>Heavy</td>
<td>2.5</td>
<td>Morgan</td>
<td>Moderate number of large hazard trees w/ complicated falling; low to moderate brush</td>
</tr>
<tr>
<td>Heavy</td>
<td>1.7</td>
<td>Porter</td>
<td>Some hazardous trees of large DBH, low-moderate brush and hardwood resprout; rocky and has watercourse</td>
</tr>
<tr>
<td>Low</td>
<td>0.3</td>
<td>Durham</td>
<td>Thinning dead and dying ponderosa thicket</td>
</tr>
<tr>
<td>Low</td>
<td>0.6</td>
<td>Navarro</td>
<td>Thinning hardwood resprout; some amount of small diameter hazard trees</td>
</tr>
<tr>
<td>Low</td>
<td>1.0</td>
<td>Navarro</td>
<td>Hardwood sprout and brush thinning; some small standing dead</td>
</tr>
<tr>
<td>Low</td>
<td>0.7</td>
<td>Porter</td>
<td>Thinning reprouts; some smaller diameter hazard trees</td>
</tr>
<tr>
<td>Moderate</td>
<td>4.1</td>
<td>Meyer/Lusk</td>
<td>Burnt at 100% mortality; rocky and steep.</td>
</tr>
<tr>
<td>Moderate</td>
<td>1.3</td>
<td>Navarro</td>
<td>High number of mid DBH hazard trees; moderate brush and resprout; in wet area</td>
</tr>
<tr>
<td>Moderate</td>
<td>1.1</td>
<td>White</td>
<td>Small number of larger DBH Hazard Trees; high density dead manzanita; moderate small dead tree density</td>
</tr>
</tbody>
</table>

*Table 1. Properties by landowner last name. See Exhibit B and C.*

### VIII. Payment Schedule

Contractor will be paid for expenses based on the invoices submitted on a monthly basis. The BCRCD must receive invoices no later than the 10th of each month to adhere to the BCRCD’s billing schedule. Payments will be made on a per-acre basis, following inspection of work. Work must be in compliance with specifications before payment will be made.

Payments to the contractors shall be paid within sixty (60) days from receipt of the funds by the BCRCD from the funding agency, which can be as much as three months after invoice submittal for this grant. BCRCD will make every effort to expedite payment to the contractor.

### IX. Proposal Details

This contract will not be awarded based solely on the lowest proposal. This project requires experience and references as described in the Additional Information section under the subheading References & Required Experience.

The Contractor shall submit the proposal for activities identified in this Request for Proposals using the Bid Form Attachment. Proposals may be rejected if the Bid Forms are not used or are incomplete.
X. Additional Information

A. Site Locations:
Exact addresses will be disclosed upon award of contract. The project’s 15 units are across the Berry Creek, Brush Creek, Forbestown, and Oroville Dam USGS quadrangles, including parts of T21N, R06E sections 5 & 31; T21N R05E sns 14, 28, 29, 34 & 35; and T20N R05E sns 1, 3, & 17 (Exhibit A).

B. Subcontracting:
Any subcontractors must be identified along with the defined work they will perform on the bid form provided. The BCRCD will not refuse a proposal based on the use of subcontractors but does retain the right to refuse the subcontractors selected. Contractor shall remain solely responsible for all subcontracted work.

C. References & Required Experience:
This project requires that the contractor has experience in manual brush treatment, pruning, pile construction, and handline construction as well as hazard tree felling, mechanical operations, and biomass removal. Contractor will provide proof of completion and references for three (3) projects of similar size and scope (as determined by the BCRCD Project Manager). References should speak to the contractor’s experience in the type of work identified in the Project Specifications. References should include a contact name and current phone numbers.

D. Contractor Residual Woody Debris Obligations:
Should the Contractor elect to remove biomass from the site—rather than rearrange the fuel onsite via mastication, chipping, or piling—then they must do so before the end of this contract: March 1, 2024. For the properties that require biomass removal, the property owners will sign a waiver of ownership to their wood products to the LTO. It is therefore the responsibility of the LTO to ensure the material is either cleared from the landowners’ properties or arranged in the safest possible manner for the upcoming fire season.

E. Performance Bonding:
The awarded Contractor will be required to provide a Performance Bond for 100% of the awarded amount.
F. Insurance:
The successful bidder will be required to provide BCRCD with proof of appropriate insurance.

G. Disputes:
Disputes regarding awarding of contract will be decided by the BCRCD Board. Written appeal must be received within 10 days of the award.

H. Maps & Measurements:
The maps are provided as Attachments. They are intended to show only the general size, shape, and location of the areas. If the maps conflict with the field marking, the field markings shall govern. The positions of features are approximate. The units have been determined by Global Positioning Systems (GPS) and/or Geographic Information Systems (GIS). If re-measurement of the acreage is desired by the contractor, notification shall be made upon written request. Requests for re-measurement shall be made within 10 days after work has been completed on the unit.

I. Rework & Re-inspection after Rework:
If inspection results are below 90% and excess trees or brush constitute a part of the deficiency, payment may not be made until the problem has been corrected, unless the Project Manager determines that a reduction in pay in lieu of rework is acceptable.

J. Safety:
When Contractor’s operations are in progress adjacent to or on County or Forest Service Roads, Contractor shall furnish, install, and maintain all temporary traffic controls which provide the road user with adequate warning of hazardous or potentially hazardous conditions associated with Contractor’s operations. Devices shall be specified as in the “Manual on Uniform Traffic Control Devices for Street and Highway” (MUTCD). Devices shall be appropriate to current conditions and covered or removed when not needed.
K. Protection of Improvements and Survey Monuments:
The Contractor shall avoid any damage to improvements such as, but not limited to trails, telephone lines, pipelines, structures, roads, fences, gates, utility poles, power lines, pedestals, survey markers or monuments, and survey witness trees. The contractor will be required to repair or pay fair market value to replace any damaged improvements.

L. Certification of Compliance:
Contractor shall certify compliance with specific fire precautionary measures included in the attached Fire Plan. The certification shall be made prior to commencement of work and shall be updated if at any time during performance the conditions change.

XI. Attachments
A. Bid Form Attachment No. 1: Contractor Information
B. Bid Form Attachment No. 2: Proposed Sub-Contractors
C. Bid Form Attachment No. 3: Bid Schedule
D. Bid Form Attachment No. 4: Project Questionnaire
E. Bid Form Attachment No. 5: Work Plan
F. Attachment No. 6: Project Maps
   i. Exhibit A: Project Overview Map
   ii. Exhibit B: Bald Rock Rd. Map
   iii. Exhibit C: Oro/Quincy Hwy. Map
G. Attachment No. 7: Fire Plan
SFLAP, Berry Creek
Attachment 1- Contractor Information
Proposal Due Date: Friday, August 11 at 1700

Company Name: ________________________________________________________________

Company Address: ________________________________________________________________

Contact Name: ________________________________________________________________

Phone: ___________________________________ Email: ________________________________

Federal ID or SSN#: _________________________ Years in Business: _____________________________

References: Provide 3 references, with contact names and phone numbers for each reference.

1. Contact Name: ______________________________ Phone: ________________________________
   Business Name/ Client: ________________________________________________________________

2. Contact Name: ______________________________ Phone: ________________________________
   Business Name/ Client: ________________________________________________________________

3. Contact Name: ______________________________ Phone: ________________________________
   Business Name/ Client: ________________________________________________________________

Bid Validity: Please specify the length of time this bid is valid for (minimum of 30 days). 

Bid Information

Bidder agrees to accept as full payment the following total base bid price:
_________________________________________________________ dollars 
   (in words) 
_________________________________________________________ 
   (in numerals) 

In the event of a discrepancy, amount in words shall prevail.

The bidder hereby acknowledges that the total base bid price is based solely on the bidder’s own 
estimate of costs and includes all applicable taxes, overheads, and profit.

Contractor Signature__________________________________________________________________
SFLAP, Berry Creek
Attachment No. 2: Proposed Sub-Contractors

The BIDDER should submit with the Bid Form a listing of names and business addresses of subcontracting firms or businesses that will be awarded subcontractors for portions of Work as described above.

The Subcontractor list shall be completed and should include the following information:

1. Subcontractors, listing each subcontractor whose subcontract amount is more than 10 percent of the Contract price with whom the bidder, if awarded the Contract, will subcontract for performance.

2. The categories of work those subcontractors will perform on the Contract.

A bid will be considered non-responsive and will be rejected if the BIDDER does not correctly complete the Subcontract List contained herein and include this Proposed Subcontractor list with the Bid Form.

A. List of Subcontractors to be used

<table>
<thead>
<tr>
<th>Subcontractor</th>
<th>Work</th>
<th>Dollar Amount</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Task and Description
<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Felling of hazardous trees of all diameter classes</td>
<td>93</td>
<td>acre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Removal of non-merchantable saw logs: either for firewood, biomass, or burning at an alternative location, for example.</td>
<td>93</td>
<td>acres</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brush, slash, and large, down woody material removal or reduction. Implementation examples are mastication, hand cut and chip, or hand cut and pile.</td>
<td>93</td>
<td>acres</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand piling of brush and hazard trees 14 inches and below in equipment exclusion zones.</td>
<td>tbd</td>
<td>acres</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pay Items Description:**
The bid price for this item shall include all equipment, plastic covering, manpower, mobilization, insurance, and bonding to complete the work described in the specifications.
SFLAP, Berry Creek
Attachment No. 4: Project Questionnaire

Please initial _____ if the contractor has direct previous experience fulfilling labor
If no direct previous experience, please list below who will assist in meeting this requirement. Please
compliance requirements, including, but not limited to, wage determinations, submission of payroll
include contact information and experience.
records, etc.

List and describe three similar projects contractor has successfully completed, provide contact
information for client:

1. ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

2. ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________

3. ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
   ____________________________________________________________
SFLAP, Berry Creek
Attachment No. 5 Work Plan

Please use the following space to describe in sufficient detail the work plan or methods you will employ to gain site access and accomplish the project according to specifications. This will include a full description of how the project will meet the site requirements and prevent damage to infrastructure.

You may attach a written response to this packet if needed.

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
Exhibit A: SFLAP Berry Creek Project Overview

0 0.75 1.5 3 Miles

SFLAP_Parcles

N

RESOURCE
CONSERVATION DISTRICT
OF BUTTE COUNTY

Paradise

Lake Oroville State Park

Oroville

Thermalito

South Yuba River

Oroville

Thermalito
Butte Unit Fuels Reduction
Fire Prevention Plan
Intent - This Fire Prevention Plan ensures personnel are aware of, and comply with, the State of California’s (State) fire prevention laws and additional fire preventive measures required by the Department. Some of the Departments’ required fire preventive measures are stricter than the state fire prevention laws. Personnel should recognize conditions that may allow a fire to start. Personnel should take the appropriate precautionary measures to avoid a fire and be properly equipped and prepared to take appropriate action in the event of a fire.

Compliance with the Public Resources Code and Forest Practice Rules - The California Public Resources Code (PRC) and Forest Practice Rules (FPR) contain many provisions to reduce the risk of fire. Although our personnel are not “timber operators” as specified in the FPR or necessarily conducting “timber operations”, the FPR do provide a sound basis for the best management practices when working in conditions that may ignite a fire. These rules are also a State standard for timber regulations. By reference they are both incorporated into this Plan, and this Plan requires strict adherence to the PRC and FPR.

Effective Period and Project Activity Level (PAL) - In addition to requirements of the FPR and PRC, the Effective Period for all additional requirements of this Policy shall be determined by the CAL FIRE Unit Chief or designee. The CAL FIRE Unit Chief or designee has authority to invoke a more restrictive PAL (or waive PAL requirements in burned salvage areas), based on local conditions, resource availability or other appropriate considerations. CAL FIRE Unit Chief or designee shall notify personnel verbally or in writing when either increased or decreased PAL measures or patrol requirements are invoked.

Fuel Reduction Fire Prevention Requirements:

- Obtain the appropriate permits as necessary for fire protection within the federal, state or local government authority.

- Maintain fire suppression related tools and devices as required by PRC §§ 4427, 4428, 4429, 4431, and 4442
  - Basis - FPR - Article 8 Fire Protection, 918, 938, 958 Fire Protection [Coast, Northern, Southern]

- Keep all roads passible until slash disposal has been completed
  - Basis - FPR - Article 8 Fire Protection, 918.3, 938.3, 958.3 Roads to be Kept Passable [All Districts]

- Smoking by persons shall be confined to cleared landings and areas of bare soil at least three feet (.914 m) in diameter.
  - Basis - FPR - Article 8 Fire Protection, 918.4, 938.4, 958.4 Smoking and Matches [All Districts]

- Crew use fires for warming or other needs shall be limited to the following:
  - 10-foot clearance to flammable vegetation
  - Built in a depression to hold the ash
  - Fires will be completely out when leaving the work site.
  - Basis - FPR - Article 8 Fire Protection, 918.5, 938.5, 958.5 Lunch and Warming Fires
Company Officers or designee shall review reporting and safety procedures, daily, while providing adequate supervision with the crew.

- **Basis - FPR - Article 8 Fire Protection, 918.6, 938.6, 958.6 Posting Procedures [All Districts]**

Personnel shall provide for a diligent fire watch service at the scene of any operations to prevent and extinguish fires.

- **Basis - FPR - Article 8 Fire Protection, 918.7, 938.7, 958.7 Blasting and Welding [All Districts]**

Personnel will provide a diligent inspection of the operational area prior to leaving for the day. The person conducting the inspection shall have adequate communication available for prompt reporting of any fire that may be detected. Note: Fire preventive measures are stricter; requiring 2 continuous hours or more of patrol under certain conditions.

- **Basis - FPR - Article 8 Fire Protection, 918.8, 938.8, 958.8 Inspection for Fire [All Districts]**

Operations using equipment such as any motor, engine, boiler, stationary equipment, welding equipment, cutting torches, tar pots, or grinding devices from which a spark, fire, or flame may originate, which is located on or near any forest-covered land, brush-covered land, or grass-covered land, without doing the following:

- Provide a 10-foot clearance from object.
- Maintain one serviceable point shovel no shorter that 46 inches & one backpack pump water-type fire extinguisher.

- **Basis - Public Resources Code, Division 4, Chapter 6. 4427.**

Personnel will maintain the following tools in the event of a fire:

- One backpack pump-type fire extinguisher filled with water, two axes, two McLeod fire tools, and enough shovels so that each employee at the operation can be equipped to fight fire.
- One or more serviceable chainsaws of three and one-half or more horsepower with a cutting bar 20 inches in length or longer shall be immediately available within the operating area.
- Each vehicle will carry at least one shovel.

- **Basis - Public Resources Code, Division 4, Chapter 6. 4428.**

When gasoline powered saws are use, one serviceable round point shovel, with an overall length of not less than 46 inches, or one serviceable fire extinguisher shall be within the cutting proximity (25 feet).

- **Basis - Public Resources Code, Division 4, Chapter 6. 4431.**

If an exhaust system is not designed with a muffler as defined in the Vehicle Code, then a spark arrester is required.

- A spark arrester is a device constructed of nonflammable materials specifically for the purpose of removing and retaining carbon and other flammable particles over 0.0232 of an inch in size from the exhaust flow of an internal combustion engine that uses hydrocarbon fuels or which is qualified and rated by the United States Forest Service.
- Turbocharged engines are not subject to this section if all exhausted gases pass through the rotating turbine wheel, there is no exhaust bypass to the atmosphere, and the turbocharger is in effective mechanical condition.

- **Basis - Public Resources Code, Division 4, Chapter 6. 4442.**
**Additional Preventive Measures Required by the Department**

The Effective Period of additional requirements under this Policy shall be determined by the CAL FIRE Unit Chief or designee. The Effective Period may be waived or invoked under specific conditions identified by the CAL FIRE Unit Chief or designee, verbally **or** in writing, of the Effective Period start date. The suspension of PALs for operations will be based on one or more of the following conditions:

- Current weather conditions (accumulated snow on the ground, significant rainfall, sub-freezing temperatures) and spot forecasts.
- Current and predicted PALs forecast data
- Lifting of the burn ban
- Closure of fire season

**Determination of Project Activity Level Monitoring and Operational Requirements** - The PAL is a rating of predicted fire risk based on local fuel and weather data. Each PAL contains specific procedures and restrictions to be implemented to reduce the risk of fire. These are summarized in the Table 1 - Daily Procedures and Restrictions by Project Activity Level

Table 2 - Operational Categories and Requirements lists: categories of activities, PALs applicability, and procedures or equipment necessary for each activity.

The Pal can be accessed through the Northern California Geographical Coordination Center Predictive Services at [https://gacc.nifc.gov/oncc/predictive/weather/](https://gacc.nifc.gov/oncc/predictive/weather/) or the local ECC.

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Note: If the Fire Danger Rating Area personnel are working in is not listed they can look up the ERC [https://gacc.nifc.gov/oncc/fuelsFireDanger.php](https://gacc.nifc.gov/oncc/fuelsFireDanger.php) and Calculate the Probability of Ignition and use the above chart to determine what the PAL is in the area they are working.
Table 1. Daily Procedures and Restrictions by Project Activity Level

Each PAL includes all preceding (lower) PAL requirements.

Note: On-site weather should be taken regularly and regardless of the predicted PAL if a combination of the (10) Ten Hour Fuel Stick reaching 4% and the Relative Humidity reaching 20% the PAL will be considered E.

<table>
<thead>
<tr>
<th>PAL</th>
<th>PROCEDURES AND RESTRICTIONS</th>
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<tbody>
<tr>
<td>A</td>
<td>Immediately following the cessation of operations using Masticators, a walking foot patrol</td>
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<tr>
<td>B</td>
<td>Immediately following the cessation of operations using Chainsaws, road side chipping, ground-based tracked equipment, clearing or mastication, a walking foot patrol is required over all of the areas operated that day.</td>
</tr>
<tr>
<td>C</td>
<td>Immediately following the cessation of operations using Chainsaws, road side chipping ground-based tracked equipment, clearing or mastication, a walking foot patrol is required over all of the areas operated that day.</td>
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<td>D</td>
<td>Operations using Chainsaws, road side chipping, ground-based tracked equipment, clearing or mastication must be suspended at 1:00 P.M. and a walking foot patrol for 2 continuous hours is required over all of the areas operated that day. These operational activities may continue if a walking foot patrol is conducted once every hour on all areas operated that day, with patrols commencing at 1:00 P.M. and continuing for 2 continuous hours after cessation of</td>
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<td>Ev</td>
<td>Chainsaws, road side chipping, ground based tracked equipment, clearing, and mastication may operate until 1:00 PM as long as a walking foot patrol is conducted once every hour on all areas operated that day, with patrols commencing at 9:00 AM and continuing for 2 continuous hours after cessation of</td>
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<td>E &amp; Red Flag (Non-Lightning)</td>
<td>All non-road side chainsaw operations, road side chipping, ground based tracked equipment, clearing and mastication, are prohibited.</td>
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</table>

Table 2. Operational Categories and Requirements

“X” - Denotes that the specific requirements apply to the listed Operational Categories

<table>
<thead>
<tr>
<th>Operational Categories</th>
<th>PAL</th>
<th>Designated Patrolman</th>
<th>Walking Patrol</th>
<th>Fire Engine/Water Tender</th>
<th>Fire Tools, Back Pump</th>
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<td>Chainsaw Operations</td>
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<td>Tracked Vehicle Operations</td>
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</table>

Note: When an operation is conducted that requires a Designated Patrolman for PAL D and Ev in Table 2, the 2 continuous hours of patrol will be performed by a “Designated Patrolman. All other operations within the Operational Categories in Table 2 that require Walking Patrol (but not by a Designated Patrolman) still require a walking patrol for 2 continuous hours on PAL D and Ev days.
Definitions and Conditions

Brush and Blade Guards - Ensure that operators clean out guards no less frequently than every two hours during operations to prevent the build-up of vegetative material.

Communication Devices - On site of every operation, Crew shall possess a communication device that is capable of contacting fire dispatch directly or indirectly through other contacts.

Designated Patrolman - For those activities specified in Table 1 - Operational Categories and Requirements walking patrols described under PAL’s D or Ev must be conducted by a designated patrolman who has no other duties to complete during the requisite patrol period. Designated patrolmen must be equipped as described in the “Foot Patrol”

Foot Patrol - The individual doing the walking foot patrol shall have a vehicle parked within or as close as possible to the patrolled area, and the vehicle shall be equipped to fight fire with all the following:

1) A serviceable 5 gallon backpack pump filled with water,
2) A shovel or McLeod fire tool,
3) Either a double bit ax or a serviceable chainsaw with a minimum 20-inch bar, and
4) Communications equipment capable of summoning additional fire suppression resources

In situations where the individual doing the walking foot patrol is the only person on the operation and a fire is detected, the individual will report the fire and take immediate action to contain and suppress the fire.

Note - The patrol shall carry around point shovel or McLeod fire tool during the entire walking foot patrol.

On-Site Supervisor - When the daily PAL is D, Ev, or E/Red Flag. The on-site supervisor shall be capable of receiving notices, taking action, and directing a response to a fire.

Fire Engine/Water Tenders - As designated in Table 1 - Operational Categories and Requirements several activities and operations require either a staffed water tender with communication devices (as required above) or a fire engine with a minimum capacity of 250 gallons and 200 feet of minimum 1 inch hose. The fire engine, and water tender shall be in working order and capable of delivering water under sufficient pressure at 200 feet to properly operate a standard fire nozzle.

Red Flag Warning (Non-Lightning) - Should the Crew become aware through contact with an ECC, National Weather Service or other fire weather web sites, that “Red Flag Warning” conditions have been issued and are in effect for the Crew’s area of operations, the Crew shall follow the procedures and restrictions of PAL E and shall be in effect for the time period in which the Red Flag Warning is in place.

Red Flag Warning (For Lightning) - Operations under a Red Flag Warning (For Lightning), declared specifically in response to predicted lightning activity, may proceed under the PAL assigned to the operation for that day.