

# **Coal Creek Floodplain Restoration**

## ***Upper Middle Fork Willamette Watershed***

### **Request for Proposals (RFP)**



***Proposals due by 5PM on January 28<sup>th</sup>, 2019***

*Submit proposals electronically to:*

[audrey@middleforkwillamette.org](mailto:audrey@middleforkwillamette.org)

*Address RFP questions to:*

Audrey Squires

Office Phone: 458-215-8200

Cell Phone: 541-915-7235

[audrey@middleforkwillamette.org](mailto:audrey@middleforkwillamette.org)

# Table of Contents

1.0 COAL CREEK SUB-WATERSHED .....	4
2.0 PROJECT OVERVIEW.....	4
3.0 REQUEST FOR PROPOSALS.....	5
3.1 Mandatory Pre-Bid Meeting .....	5
3.2 Proposal Requirements.....	5
3.3 Proposal Process .....	5
3.4 Evaluation/Selection Process.....	6
4.0 PROJECT ELEMENTS .....	6
4.1 Element #1: Tree harvest from upland sources.....	6
4.2 Element #2: Transport of wood from upland sources to staging sites along Coal Creek .....	7
4.3 Element #3: Floodplain Activities.....	8
4.4 TENTATIVE Element #4: Hydrologic restoration of FS Road 2133_210 .....	10
5.0 ADDITIONAL REQUIREMENTS/CONSIDERATIONS.....	10
5.1 Contractor’s Supervisor and Furnished Items.....	10
5.2 Permits .....	10
5.3 Environmental Protection.....	10
5.4 Equipment Cleaning .....	11
5.5 Hazardous Material Containment/Clean Up.....	11
5.6 Fire Precautions .....	12
5.7 Heritage Resource Considerations.....	12
5.8 Insurance Requirements .....	12
5.9 Prevailing Wage Rate Law .....	13
5.10 Payments.....	13
APPENDIX A – Tables, Figures and Photos.....	14
Table 1. Upland Tree Harvest.....	14
Figure 1. Project Location in Regional Context .....	15
Figure 2. Project Area.....	16
Figure 3. Project Layout .....	17
Figure 4. Upland Tree Harvest Units and Roads .....	18
Photos 1-3. Coal Creek Current Condition .....	19
Photos 4-5. Staley Creek Post-Project Condition and Complex Log Jam .....	20

APPENDIX B – Fire Protection and Suppression: USDA Forest Service, PNW Region.....	21
Fire Period and Closed Season .....	21
Fire Plan .....	21
Substitute Measures .....	21
Emergency Measures.....	21
Fire Control .....	21
Compliance with State Forest Laws .....	21
Fire Precautions .....	21
Fire Tools.....	24
Fire Security .....	24
Communication.....	24
APPENDIX C – Proposal Forms .....	25
Table 1. Bid Sheet for Lump Sum Elements and Items .....	25
Table 2. Bid Sheet for Time and Materials Elements and Items .....	27
Proposal Questions: .....	30

## 1.0 COAL CREEK SUB-WATERSHED

The Upper Middle Fork Willamette River (UMFWR) 5<sup>th</sup> field watershed has been identified by the Willamette National Forest as the highest priority on the Forest for both aquatic and terrestrial values in need of restoration. Within the UMFWR watershed, Coal Creek, a 6<sup>th</sup> field sub-watershed, is a priority sub-watershed for restoration under the USFS' Watershed Condition Framework. The lower reaches of Coal Creek historically provided spawning, rearing, and foraging habitats for Endangered Species Act (ESA) listed spring Chinook salmon and bull trout. Many avian and terrestrial species have also relied on this habitat. However, the area has been impacted by timber harvest, streamside cutting, road building, and berming. This management history has resulted in a degraded stream that is straight, channelized and disconnected from the floodplain.

## 2.0 PROJECT OVERVIEW

The Middle Fork Willamette Watershed Council (MFWWC) and the USFS Middle Fork Ranger District (MFRD) have jointly designed and planned this project and will provide project management and oversight. The goals of the Coal Creek Floodplain Restoration project are to restore stream process and function and to improve habitat for ESA-listed fish and other native species in the lower Coal Creek floodplain just above the confluence with the upper Middle Fork Willamette River. This project has been modeled after the 2017 Staley Creek Floodplain Restoration project but is of a smaller scale and scope. For more information on this type of project, please visit:

<https://www.middleforkwillamette.org/restore/rivers-and-streams/staley-creek/>.

The Coal Creek project is planned for implementation in summer 2019 and is expected to take approximately three weeks. The in-water work period is July 1 – August 15, however, we are seeking an exemption to allow instream work to begin on June 10<sup>th</sup>. The exact dates of work in and around Coal Creek will depend on water levels, soil moisture, contractor availability, and completion of trail relocation out of the project area. The preferred order of project activities is listed below.

Preferred Order of Project Activities
1. Upland tree tipping of 250 trees from 1.75 acres
2. Transport and staging of trees to project area
3. Post-haul maintenance of NF Roads 2100-270, 2134, 2134-240, 2134-255
4. Vegetation clearing in ~8 acres of floodplain
5. Stream diversion of 16-25 CFS
6. Redistribution of ~17,000 cubic yards of bedload material
7. Placement of ~800 pieces of wood (burial, partial burial and jam building)
8. Hydrologic restoration of FS Road 2133_210 (TENTATIVE)
9. Site clean-up and demobilization

Access to the general site area from Oakridge, OR consists of 23 miles of paved road (Forest Road 21) and one mile of unpaved road (Forest Road 2133) (Appendix A Figure 1). Project elevation is approximately 2200 feet. The project area covers approximately 0.3 stream miles (< 2% grade) and will reconnect approximately 25 acres of floodplain habitat to the stream through regrading the floodplain and placing large wood throughout it (Appendix A Figures 2-3). Large wood for the project will be sourced from 1.75 acres of upland forest within three miles of the project site. The sites for tree harvest and are accessed by unpaved roads (Appendix A Figure 4). Skid and access roads will be identified and/or created as needed and approved by MFWWC and MFRD to access project areas in the floodplain and the forest.

The successful bidder will excavate material from elevated floodplain areas, berms, old roads and a ¼-acre dispersed camp site and will then redistribute that material across low elevation areas of the stream channel and floodplain (Appendix A Figure 3). Approximately 800 pieces of wood of varying sizes will be placed with ground-based equipment in log jams and accumulations throughout the floodplain. Approximately 25% of trees shall be fully buried and 40% partially buried to ensure wood will not move easily. The remainder will be built into jams or scattered throughout the floodplain. Approximately 400 large trees without root wads and 150 short, large-diameter logs have already been staged less than one mile from the project area. The remaining 250 trees will be tipped by the successful bidder with rootwads intact in nearby upland areas (three ¼-acre and two ½-acre units) and transported to staging sites along Coal Creek (Appendix A Table 1).

### **3.0 REQUEST FOR PROPOSALS**

The MFWWC is seeking proposals for implementation of this project between June and August 2019. The project has three main elements offered as one contract, and a tentative fourth element that will be offered as a contract addendum if funding becomes available. We are asking that the applicants bid on the first two elements (tree harvest from upland forest units and tree transport) as lump sum amounts. The third element (floodplain activities) is offered as a time and materials contract. The fourth element (road work) will be negotiated at a later date using the equipment rates provided in the bidder's original proposal. The successful applicant may sub-contract elements of the contract.

#### **3.1 Mandatory Pre-Bid Meeting**

All interested parties are required to attend a site visit with project managers from MFWWC and MFRD in order to bid on this project. Please contact Audrey Squires at the Middle Fork Willamette Watershed Council to schedule (458-215-8200 (office), 541-915-7235 (cell), [audrey@middleforkwillamette.org](mailto:audrey@middleforkwillamette.org)). Pre-bid meetings will be scheduled for January 16, 2019. Meetings may also be scheduled on January 15<sup>th</sup> if needed.

#### **3.2 Proposal Requirements**

Proposals shall include the following:

1. Completed bid sheets (Appendix C Tables 1 and 2);
2. Narrative responses to questions outlined in Appendix C;
3. Summary of work experience, preferably documenting three years of relevant experience; and
4. Contact information for two references who can speak to the applicant's successful execution of the type of work described within this RFP.

#### **3.3 Proposal Process**

Interested parties shall present the MFWWC with electronic proposals by 5PM on (January 28<sup>th</sup>, 2019). The proposal must include a complete proposal packet as outlined in the Proposal Requirements including responses to all questions in the RFP. MFWWC will review bids based on criteria described in Evaluation/Selection Process and will notify applicants of the decision on or before February 11<sup>th</sup>, 2019.

Completed proposals and questions regarding the RFP should be directed to Audrey Squires at the MFWWC: [audrey@middleforkwillamette.org](mailto:audrey@middleforkwillamette.org)  
458-215-8200 (office)  
541-915-7235 (cell)

Responses to questions will be sent to all bidders. Questions received after 3PM on January 23, 2019 will not be answered.

Proposal Timeline	
Mandatory pre-bid meetings	January 15-16, 2019
Question deadline	January 23, 2019, 3PM
Bid proposals due	January 28, 2019, 5PM
Bidders notified of decision	February 11, 2019

### 3.4 Evaluation/Selection Process

Award of the contract will be made based on the following criteria:

1. Proposal submitted on time and containing all requested information;
2. Documentation of relevant experience and technical expertise;
3. Ability to meet preferred schedule;
4. Positive references;
5. Demonstration of clear vision for project implementation including appropriate equipment to successfully and efficiently complete the work; and
6. A technical/cost relationship that is most beneficial for the long-term success of the project as determined by the MFWWC.

Contract awards may not necessarily be made based on lowest offer. Conversely, awards may not be based solely on technical capabilities if associated costs appear to exceed those deemed necessary for the successful completion of the work.

The MFWWC reserves the right to make award decisions without conducting discussions regarding proposals. Discussions (written or oral) regarding proposals may be initiated by the MFWWC at its discretion for proposals deemed to be within a competitive range. The MFWWC will provide a phone consultation regarding unsuccessful proposals upon request.

## 4.0 PROJECT ELEMENTS

The project contains three main elements which are offered as one contract and a tentative fourth element that will be included as a contract addendum at a later date if funding becomes available.

1. Tree harvest from upland sources;
2. Wood transport from upland sources to Coal Creek project area;
3. Floodplain activities (clearing vegetation, stream diversion, redistribution of bedload material and instream wood placement);
4. Hydrologic restoration of FS Road 2133\_210 (*TENTATIVE*)

### 4.1 Element #1: Tree harvest from upland sources

Some of the wood to be used in the project will be sourced from five units within three miles of the project area. Units 1-3 are each ¼-acre in size and accessed via roads 2134 and 2134-240 (Appendix A Figure 4). They are located on a previously decommissioned road (2134-255). Project staff have marked 162 trees of various size classes (8-32" DBH) for harvest (Appendix A Table 1). Trees in these gaps are to be left at 80-90 feet in length when harvested and rootwad shall remain intact. They will then be hauled to Forest roads by ground-based equipment and transported to staging sites along Coal Creek. Tree tops shall be transported to Coal Creek to be used as filler in log jams.

Units 4 and 5 are each ½-acre in size and are accessed via the 2100-270 road. In contrast to units 1-3, these units shall be thinned to reduce disturbance to the site; the contractor shall avoid damaging trees not marked for removal. Tree shall not be tipped into the marked sensitive areas. Thirty nine trees shall be harvested from unit 4 and 50 from unit 5. Sizes range from 8-40" DBH (Appendix A Table 1).

Rootwads must remain intact and trees need to be transported at 90-110' in length. Tree tops shall be transported to Coal Creek to be used as filler in log jams.

The contractor shall create as few entry points and paths in the units as possible to reduce soil disturbance, rehabilitate and decommission skid roads within forest units, reconstruct a berm and water bars on road 2134-255, and spread slash, weed-free straw and seed across units and rehabilitated roads. Contractor shall provide weed-free straw and MFRD shall provide seed. This element of the contract shall be completed before instream work commences.

All actions (creation of temporary skid roads, tree harvest, skid road decommissioning, etc.) shall adhere to design features identified by the MFRD Inter-Disciplinary Team to reduce environmental impacts:

- Only remove trees marked by MFRD personnel, all other trees are to be left. Damaging trees not marked for removal shall be avoided, and trees shall not be tipped into the marked sensitive areas
- Slash shall be spread across disturbed areas.
- Existing landings, old primary skid roads, previously compacted areas from legacy haul roads, and/or tractor fire lines will be utilized as much as possible prior to disturbing new areas.
- Construction or maintenance of roads and haul on native-surfaced roads will not be done when soils are saturated or runoff occurs.
- Best Management Practices including placement of sediment barriers, provision of flow bypass, and other applicable measures, will be included in project design as necessary to control off-site movement of sediment.
- Ground-based equipment used for yarding, processing, or other project activities will operate only when soils are relatively dry or where water is not pooling. Operations will be suspended before rainfall or precipitation results in off-site movement of sediment into drainage courses.
- All equipment trails need to be pre-located and pre-approved. Skid trails will be located outside drainages, seeps, springs and/or concave landforms, which could accumulate and transport overland flow and sediment. Existing skid trails that meet the needs of the yarding system should be used wherever possible.
- All landings, temporary roads and primary skid roads will be sub-soiled to a depth of 18 to 24 inches or bedrock, covered with slash or weed-free straw and the entrance blocked at the completion of project activities.
- All disturbed soils will need to be seeded and covered with slash or weed-free straw.
- All equipment must be cleaned and debris free prior to entering the project area subject to inspection and approval at the Middle Fork Ranger Station.

Preferred technical capabilities:

- Documented experience tipping larger (30-40" DBH) trees and keeping rootwads intact

#### **4.2 Element #2: Transport of wood from upland sources to staging sites along Coal Creek**

Approximately 250 trees and logs of various sizes and associated tree tops are to be transported to staging sites along Coal Creek via National Forest Roads 21, 2100\_270, 2134\_240 and 2134 (Appendix A Figure 4). The sizes of the trees to be harvested are listed in Appendix A Table 1; for project success, these trees need to remain at least 80-110 feet in length with root wads intact. A pilot vehicle and flagger are needed for enhanced safety during log transport on the 21 and 2134 roads; Manual Uniform Traffic Control Devices (MUTCD) will be used when appropriate. Roads may be temporarily closed for public safety while work is occurring. Roads must be able to be re-opened for emergency vehicle traffic and left open when on-site work is not occurring. Because staging areas along Coal Creek are limited in

size, transportation of wood from upland staging sites to Coal Creek may need to be done in stages and coordinated to some degree with instream wood placement.

All log transport shall adhere to features identified by the MFRD Inter-Disciplinary Team to reduce environmental impacts, many of which have already been identified in Element #1 above. Additional features specific to this project element include:

- All haul roads shall be maintained in stable condition. Haul may be suspended during periods of wet weather.
- Dust abatement of road surfaces may be used if roads become excessively dusty during summer months. If lignin sulfate is used, certain restrictions apply.

Preferred technical capabilities:

- Documented experience transporting large logs with root wads intact

### **4.3 Element #3: Floodplain Activities**

The conceptual goal throughout the project area is to lower floodplain elevation and to raise stream bed elevation by redistributing bedload material from previously constructed berms and other high elevation sites within the floodplain to the current channel and other low elevation sites across the floodplain. Ultimately, the stream bed and the floodplain will be the same relative elevation, allowing the stream to create new paths throughout the entire project area. Large trees with and without rootwads will be placed throughout the project area (in the current stream channel and across the floodplain) to add habitat diversity, reduce stream velocity, and catch debris as it moves downstream. To achieve these goals, the sub-elements listed below will need to occur. Project staff from MFWWC and MFRD will be on site at all times to advise the contractor during implementation.

#### ***Clearing Vegetation***

Prior to redistributing bedload material, vegetation from within cut locations in the project area will need to be cleared (approximately 8 acres). Trees shall be removed with rootwads intact. Vegetation (trees and shrubs) shall be set aside to be incorporated into log jams and scattered across the floodplain. Areas to be cleared will be marked in advance by project staff. Disturbance shall be avoided in areas not marked for vegetation clearing.

#### ***Removing Trail Bridge***

The contractor will need to remove a trail bridge that crosses Coal Creek. The stringers shall be removed undamaged and set aside for future use by MFRD.

#### ***Stream Diversion***

Coal Creek will need to be dewatered during implementation to avoid creating turbidity in the stream. At least 90% of surface flow must be diverted; streamflow during the implementation period will be 16-25 cubic feet per second (CFS) or less. The site layout will likely require only one diversion some of which is an old channel (Appendix A Figure 3). Excavation will likely occur at the inlet of the diversion channel, and along the desired flow path. The diversion channel will be located between the staging/access area and the project area and, therefore, will require some form of passage over it (e.g., bridge, culverts). Turbidity requirements will need to be met during implementation of instream activities. Therefore, determining an effective method for dewatering the stream is an important part of this project in order to avoid increased turbidity levels and the subsequent negative impact on aquatic species. Previous similar projects have used a variety of methods including super sacks filled with local material and large wood barriers with local material and/or plastic liners. All foreign material will need to be removed from the project site before project completion.

If MFWWC and MFRD staff observe that turbidity requirements are not being met, the contractor must be prepared with a pump and/or filter bags to divert the excess water out of the channel and onto the forest floor to reduce turbidity levels. Any materials needed for stream diversion should be added into the proposal budget. If pumps are used, fish screens must be installed to avoid mortality. Prior to stream dewatering project staff and volunteers will be on site to salvage fish and other aquatic organisms from the channel and relocate them to the nearby Middle Fork Willamette River to avoid disturbance. The successful bidder will need to be prepared to coordinate with fish salvage activities.

### *Redistributing Bedload Material*

Approximately 17,000 cubic yards of bedload material from berms and a dispersed campsite in the project area will be redistributed across the Coal Creek floodplain and channel. Most of the material to be excavated is adjacent to its destination for filling (Appendix A Figure 3). Additional material may need to be transported from within the project area when immediately available material is insufficient to meet desired elevation. Some sorting of material and strategic redistribution may be necessary in order to have well-dispersed amounts of different material sizes (e.g., silt, sand, gravel, cobble). MFRD and MFWWC will install survey monuments and mark target elevations throughout the project area in advance of implementation to be used as elevational references.

### *Instream Wood Placement*

Approximately 800 trees will be moved from staging sites along Coal Creek to placement sites within the floodplain and stream via ground-based transport methods. Trees range in size from 8-40" DBH and may be up to 110' in length; some will have rootwads intact. Pre-designated skid trails will be identified by MFWWC and MFRD project managers. Trees and other vegetation cleared from within the project area will also be utilized. Some large trees in the floodplain will be tipped into the project area with rootwad intact. Ground-based equipment will be used to place trees in the project area according to design specifications. Approximately 25% of trees will be fully buried and 40% partially buried. Approximately 15 complex log jams will be constructed, as well as smaller log accumulations. MFWWC and MFRD will provide the contractor with general design guidelines, such as the number of logs and size classes per log jam and the frequency and general location of log jams and smaller accumulations of wood and slash across the project area (Appendix A Figure 3).

All actions related to instream work shall adhere to features identified by the MFRD to reduce environmental impacts in Elements #1 and 2 above, as well as features specific to this project element:

- Turbidity requirements listed in all applicable permits will need to be met during implementation of instream activities.
- Water sources used by project operations will be reconstructed or maintained as necessary to protect stream bank stability, riparian vegetation, and water quality.
- If sensitive species (Harlequin duck, Western pond turtle) are observed in the project area, contractor must notify project staff immediately.
- All equipment must be cleaned and debris free prior to entering the project area subject to inspection and approval at the Middle Fork Ranger Station.

Preferred technical capabilities:

- Documented experience placing and creating complex instream log jams
- Documented experience sloping banks and constructing channels
- Documented experience cutting/filling/hauling bedload material within a stream
- Documented experience planning logistics of a complex project with many moving parts and staging of material
- Documented experience of dewatering a stream of at least 16 CFS

#### **4.4 TENTATIVE Element #4: Hydrologic restoration of FS Road 2133\_210**

Upon completion of Elements #1-3 and as funds and time allow, the contractor will have the option to establish a time and materials contract addendum with the MFWWC to hydrologically restore FS Road 2133\_210 located within the Coal Creek watershed. Equipment rates from Element #3 (Floodplain Activities) shall be used for this contract.

The 2133\_210 road was impacted by the 1996 flood, washing out culverts and leaving the road impassable. In order to hydrologically restore the road, the oversteepened banks that remain at old culvert sites need to be sloped at a 2:1 grade or natural contours where not possible. Any remaining culverts at stream crossings will be removed and sloped at a 2:1 grade or natural contours where not possible. Any pulled culverts will be disposed off site by the contractor. In addition, waterbars will be installed and fill slope pullback of unstable road shoulders will occur. Due to the current lack of culverts at stream crossings, initial access to the end of the road will require crossing live streams and negotiating gaps in the road.

### **5.0 ADDITIONAL REQUIREMENTS/CONSIDERATIONS**

#### **5.1 Contractor's Supervisor and Furnished Items**

Contractor shall provide an on-site manager to be physically present when the work is being performed. This person will serve as the point of contact for MFWWC and will be responsible for regular check-ins with MFWWC and MFRD.

The Contractor shall provide all equipment, repair parts, and materials/supplies to perform contract work according to specification. Equipment includes but is not limited to:

- Heavy equipment;
- Materials necessary for stream dewatering;
- Hydraulic fluids, oils, lubricants (biodegradable/vegetable oil mandatory; contractor may select preferred type);
- Hand tools;
- Equipment repair parts;
- Safety equipment;
- Spill containment kit (see *Hazardous Material Containment/Clean Up*); and
- Fire extinguishing tools (see Appendix B).

#### **5.2 Permits**

The MFRD and MFWWC will be responsible for the procurement of all necessary State, Federal and County permits for project implementation. Permits will be supplied to the Contractor prior to the start of work. A copy of relevant permits shall be kept on site while work is performed. The contractor is required to obtain the necessary permits for transporting heavy equipment to the project site (e.g., ODOT permits, USFS bridge permits).

#### **5.3 Environmental Protection**

Contractor shall adhere to all applicable Federal, State and local environmental protection laws and regulations. Any maintenance work, equipment repairs and refueling of equipment shall be completed at fueling stations located in parking lots or existing gravel roads. Equipment furnished shall be free from any leakage of petroleum products. Excessive leakage shall be a basis for issuing an immediate shutdown of the operation.

Care shall be taken to minimize impact to established native vegetation where possible. Impact to and removal of existing native vegetation should be confined to pre-designated skid roads, staging sites, and pre-designated material removal sites. Beyond those locations, if excessive damage to native vegetation is documented, operations shall be halted until techniques can be developed that do not result in excessive damage.

#### **5.4 Equipment Cleaning**

In order to prevent the spread of noxious weeds, the Contractor shall clean all construction equipment prior to moving it to the project area. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only construction and maintenance equipment and the equipment necessary to transport said equipment, shall be cleaned and inspected by the Forest Service prior to operating within the project area. All subsequent move-ins of equipment to the project area shall be treated in the same manner as the initial move-in. This requirement does not apply to service vehicles, water trucks, pickups, cars, and/or similar vehicles.

Contractor shall employ whatever cleaning methods necessary to ensure that construction and maintenance equipment is free of noxious weeds. Equipment shall be considered free of soil, seed, and other such debris when a visual inspection does not disclose such material. Equipment or components disassembly, or the need for specialized tools, are not required.

Unless otherwise agreed, Contractor shall give the Forest Service at least 24 hours' notice when equipment is ready for inspection. Inspection will occur at the Middle Fork Ranger Station in Westfir. Inspection will be required after every subsequent cleaning ordered by the Forest Service. Forest Service shall approve the methods of cleaning and the locations for the subsequent cleaning.

New infestations of noxious weeds of concern to Forest Service and identified by Contractor or Forest Service on the project area or on the haul route shall be promptly reported to the other party. Contractor and Forest Service shall agree on treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. A current list of noxious weeds of concern to Forest Service is available at each Forest Service office.

#### **5.5 Hazardous Material Containment/Clean Up**

The Contractor is responsible for developing a spill prevention, control, and countermeasure (SPCC) plan. Contractor shall submit the SPCC to the MFWWC at least two days prior to commencing work. The MFWWC may either accept the plan or work with Contractor to modify the SPCC plan. Upon request, an example of a SPCC plan may be provided to the Contractor. The SPCC should contain the following information:

1. Response priorities
2. Contractor representative in charge
3. Duties of Contractor personnel
4. Contractor emergency response procedures
5. Contents of a Spill Containment Kit (SCK)

The Contractor shall keep a Spill Containment Kit (SCK) on site as described in the modified SPCC Plan during any operation and provide training to employees on how components of the SCK are used. The SCK must be designed for use with petroleum products and must contain, as a minimum, the following items:

1. Two Bales (4 Booms/Bale, of 8"x10' Absorbent Booms)
2. Two Bales (100 Pads/Bale of Absorbent Pads, minimum of 17"x19"x1/4"). These materials shall be equivalent to Riedel Environment Services HP-156 pads.
3. One Absorbent Sweep (minimum of 18"x100'x3/8")
4. Gloves (PVC and Latex), Goggles, and Garbage Bags

Prior to heavy equipment (excavator) operation in or adjacent to the stream channel, the Contractor shall provide and properly install a petroleum containment boom sufficient to absorb a 40-gallon spill in locations approved by the Contract Officer Representative (COR). Stream channels requiring petroleum containment booms will be designated by the Forest Service. Any and all spills of chemicals, including but not limited to petroleum products, shall be reported to the COR and immediately contained and disposed of in accordance with State and Federal regulations. Disposal includes the removal of any contaminated soil and rock material.

During Contractor operations on lands managed by the Forest Service, in the event of a release as defined in Oregon Administrative Rules (OAR), PART 340, DIVISION 108, HAZARDOUS WASTE MANAGEMENT, the Contractor shall immediately implement the modified SPCC Plan and notify the COR. The Government Representative shall assume function as Incident Commander until relieved by the Hazardous Materials Coordinator or his/her replacement.

### **5.6 Fire Precautions**

All State of Oregon and applicable federal fire laws shall be followed. Fire restrictions may result in limited hours of equipment operations at the work site, including the use of gasoline vehicles and power tools. Contractor is responsible for providing any equipment required by the Oregon Department of Forestry. Smoking or flaming materials are not allowed on the project site or nearby areas with significant fuel loads during fire season. If large accumulations of slash vegetation are created, concentrations shall be reduced by scattering slash or hand piling and burning. See Appendix B for additional details regarding fire protection and suppression on Forest Service lands.

### **5.7 Heritage Resource Considerations**

If cultural resources are encountered during the course of the project, earth disturbing activities in the vicinity must be suspended in accordance with federal regulations and the Project Manager must be notified. Forty-eight-hour notice must be given prior to sub-soiling activities or decommissioning temporary skid roads.

### **5.8 Insurance Requirements**

Contractor shall maintain the minimum of the insurance coverages below and provide MFWWC with certification prior to initiation of work. Contractor shall carry Commercial General Liability Insurance in the amount of \$1,000,000 per occurrence; \$2,000,000 in the aggregate. Contractor shall also carry automobile insurance with limits equal to the minimum required by the State of Oregon. Contractor shall comply with the Oregon Worker's Compensation law by qualifying as a carrier-insured employer or as a self-insured employer and shall comply with all other applicable provisions of such law.

### **5.9 Prevailing Wage Rate Law**

Contractor must comply with Oregon’s prevailing wage rate law which requires that entities using public funds for public works must pay not less than the prevailing rate of wage for an hour’s work, including fringe benefits, in the same trade in the locality where the work is performed. Public works is defined as including “roads, highways, buildings, structures and improvements of all types, the construction, reconstruction, major renovation or painting of which is carried on or contracted for by any public agency to serve the public interest...” ORS 279C.800(6)(a). Construction is defined as “the initial construction of buildings and other structures, or additions thereto, and of highways and roads.” OAR 839-025-0004(5). More information can be found here:

[http://www.oregon.gov/boli/whd/pwr/pages/w\\_pwr\\_pwrbk.aspx](http://www.oregon.gov/boli/whd/pwr/pages/w_pwr_pwrbk.aspx).

### **5.10 Payments**

Contract between the MFWWC and the successful applicant will establish a not-to-exceed amount that is within the funding constraints of the MFWWC. Payment requests from the contractor shall be made within 30 days of receipt and approval by the MFWWC and may be made in two payments.

## APPENDIX A – Tables, Figures and Photos

**Table 1. Upland Tree Harvest**

Gap #	Gap Size (acres)	SIZE CLASSIFICATIONS			Total
		Small (dbh = 8-22")	Medium (dbh = 22-32")	Large (dbh >32")	
1	0.25	31	10	0	41
2	0.25	48	4	0	52
3	0.25	65	4	0	69
4	0.5	24	13	2	39
5	0.5	28	19	3	50
<b>TOTAL</b>	<b>1.75</b>	<b>196</b>	<b>50</b>	<b>5</b>	<b>251</b>

Figure 1. Project Location in Regional Context

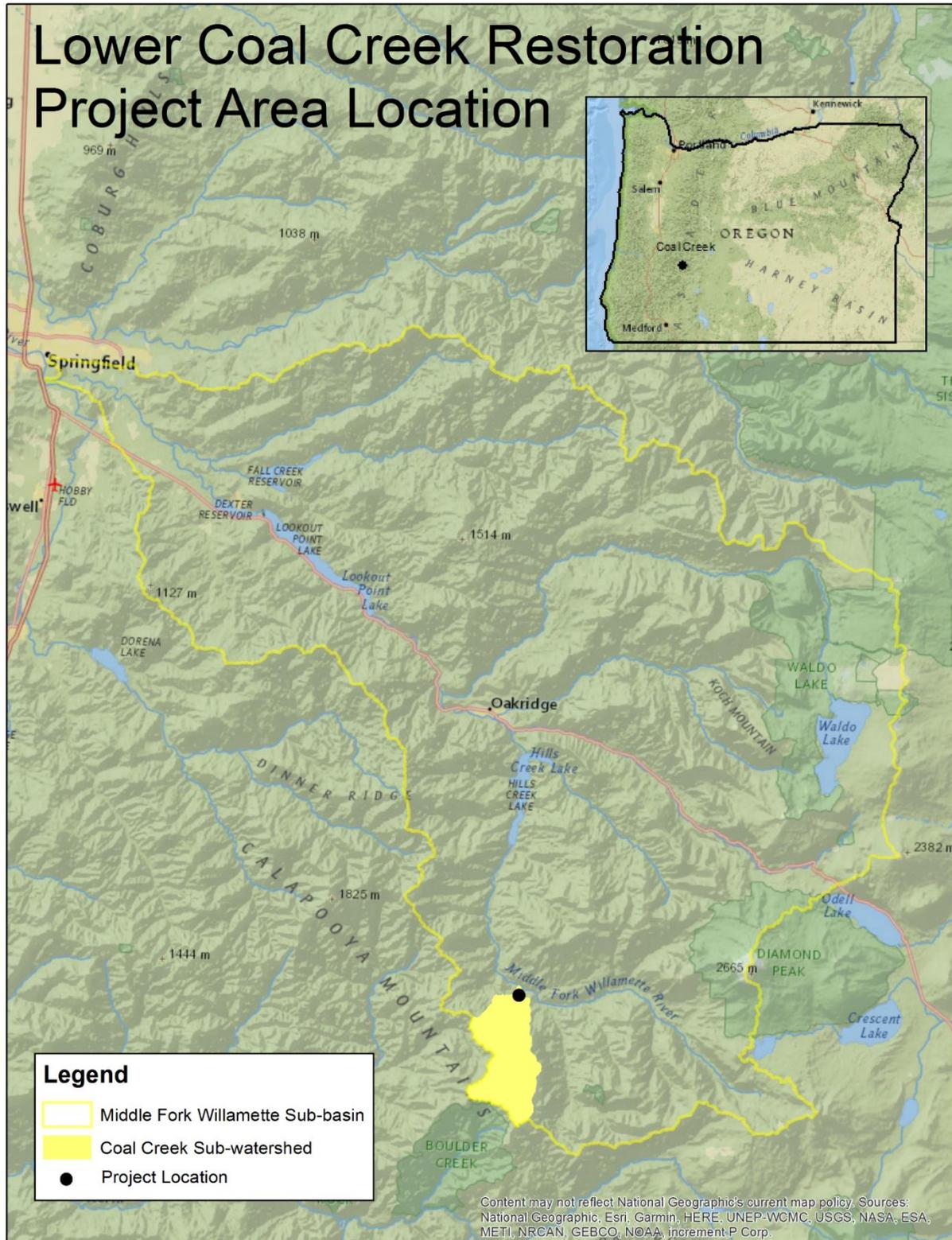


Figure 2. Project Area



### Coal Creek Floodplain Restoration Project Area (Aerial 2016)

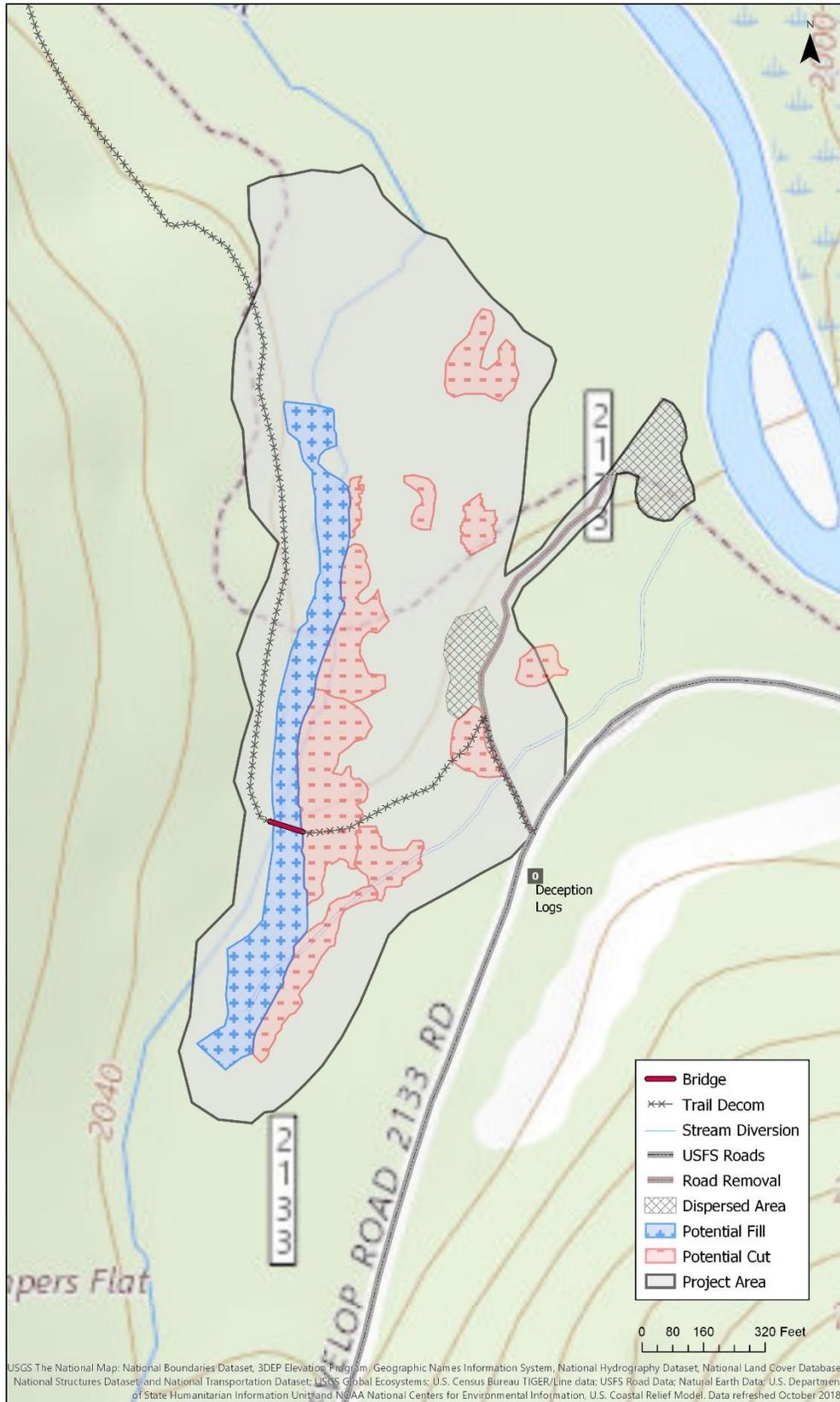


**Legend**

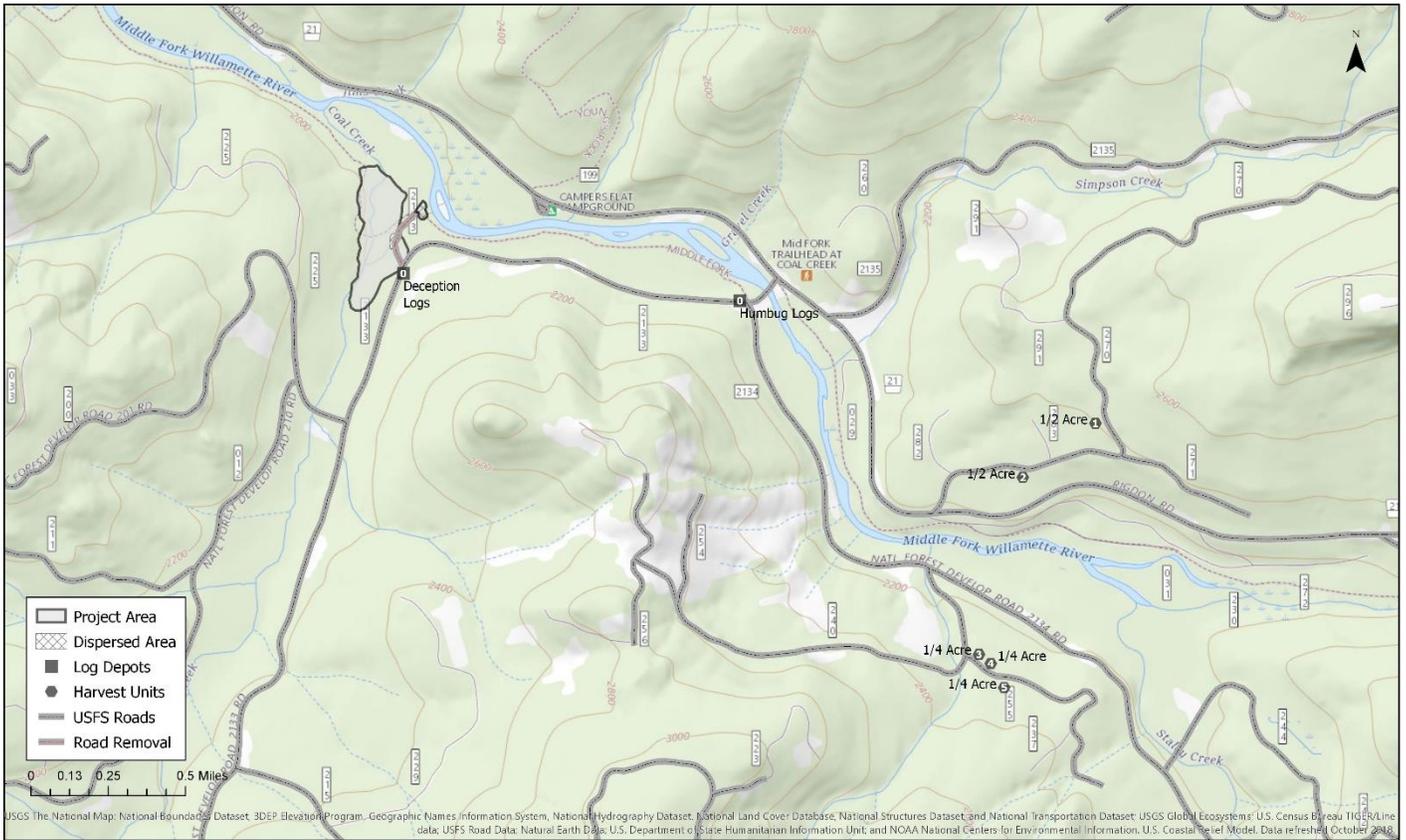
- |                       |                |
|-----------------------|----------------|
| Project Area          | Bridge         |
| Current Single Thread | Existing Trail |
| FS Road               | Proposed Trail |
| Gravel Road           |                |



Figure 3. Project Layout



**Figure 4. Upland Tree Harvest Units and Roads**



### Photos 1-3. Coal Creek Current Condition



Berm is confining main channel and keeping it from accessing floodplain, large cobble is the dominant substrate, and no large woody debris is present.



Dry side channel



Bridge to be removed, stringers retained for future use

**Photos 4-5. Staley Creek Post-Project Condition and Complex Log Jam**



Example of expected post-project condition for Coal Creek



The log jams shall be a combination of fully buried pieces of wood, partially buried pieces, and pieces interlaced above the surface with maximal contact with water.

## **APPENDIX B – Fire Protection and Suppression: USDA Forest Service, PNW Region**

### **Fire Period and Closed Season**

Specific fire prevention measures are listed below and shall be effective for the period April 1 to October 31 of each year. The Forest Service may change the dates of said period by advance written notice if justified by unusual weather or other conditions. Required tools and equipment shall be kept in serviceable condition and immediately available for initial attack on fires.

### **Fire Plan**

Before starting any operations on the project, the Contractor shall prepare a fire plan in cooperation with the USFS Contracting Officer providing for the prevention and control of fires in the project area. The Contractor shall certify compliance with fire protection and suppression requirements before beginning operations during the fire period and closed season, and shall update such certification when operations change.

### **Substitute Measures**

The Contracting Officer may by written notice authorize substitute measures or equipment or may waive specific requirements during periods of low fire danger.

### **Emergency Measures**

The Forest Service may require emergency measures including the necessary shutting down of equipment or portions of operations in the project area during periods of fire emergency created by hazardous climatic conditions.

### **Fire Control**

The Contractor shall, independently and in cooperation with the Forest Service, take all reasonable action to prevent and suppress fires in the project area. Independent initial action shall be prompt and shall include the use of all personnel and equipment available in the project area. For the purpose of fighting forest fires on or in the vicinity of the project which are not caused by the Contractor's operations, the Contractor shall place employees and equipment temporarily at the disposal of the Forest Service. Any individual hired by the Forest Service will be employed in accordance with the Interagency Pay Plan for Emergency Firefighters. The Forest Service will compensate the Contractor for equipment rented at firefighting equipment rates common in the area, or at prior agreed to rates.

### **Compliance with State Forest Laws**

Listing of specific fire precautionary measures herein is not intended to relieve the Contractor in any way from compliance with the State Fire Laws covering fire prevention and suppression equipment, applicable to operations under this contract, permit or license.

### **Fire Precautions**

Specific fire precautionary measures are as follows:

#### ***Smoking and Open Fires***

Smoking and fires shall be permitted only at the option of the Contractor. The Contractor shall not allow open fires on the project area without advance permission in writing from Forest Service. Unless restricted by State Law or Federal Regulation, smoking shall be permitted only in such portions of the project area that are free of flammable material. Smokers shall sit down to smoke in such a position that

any burning material will fall within a cleared area, and shall extinguish and press out in mineral soil all burning material before leaving the cleared area.

### *Fire Extinguishers and Equipment on Trucks, Tractors, etc.*

All power-driven equipment operated by the Contractor on National Forest land, except portable fire pumps, shall be equipped with one fire extinguisher having a UL rating of at least 5 BC, and one "D" handled or long handled round point shovel, size "0" or larger. In addition, each motor patrol, truck and passenger-carrying vehicle shall be equipped with a double-bit axe or Pulaski, 3-1/2 pounds or larger. Equipment shall be kept in a serviceable condition and shall be readily available.

### *Power Saws*

Each gasoline power saw operator shall be equipped with a pressurized chemical fire extinguisher of not less than 8-ounce capacity by weight, and one long-handled round point shovel, size "0" or larger. The extinguisher shall be kept in possession of the saw operator at all times. The shovel shall be accessible to the operator within 1 minute.

### *Extinguishers*

One refill for each type or one extra extinguisher sufficient to replace each size extinguisher required on equipment shall be safely stored in the fire tool box or other agreed upon place on the project area that is protected and readily available.

### *Spark Arresters and Mufflers*

Each internal combustion engine shall be equipped with a spark arrester meeting either (1) USDA Forest Service Standard 5100-1a, or (2) appropriate Society of Automotive Engineers (SAE) recommended practice J335(b) and J350(a) as now or hereafter amended unless it is:

- (1) Equipped with a turbine-driven exhaust supercharger such as the turbocharger. There shall be no exhaust bypass.
- (2) A passenger-carrying vehicle or light truck, or medium truck up to 40,000 GVW, used on roads and equipped with a factory-designed muffler complete with baffles and an exhaust system in good working condition.
- (3) A heavy duty truck, such as a dump or log truck, or other vehicle used for commercial hauling, used only on roads and equipped with a factory designed muffler and with a vertical stack exhaust system extending above the cab.

Exhaust equipment described in this subsection, including spark arresters and mufflers, shall be properly installed and constantly maintained in serviceable condition.

### *Emergency Fire Precautions*

The Contractor shall restrict operations in accordance with the Industrial Fire Precaution Levels listed below. The Forest Service may change the Industrial Fire Precaution Levels to other values upon revision of the National Fire Danger Rating System and may change the specific Industrial Fire Precaution Levels when such changes are necessary for the protection of the National Forest. When sent to the Contractor, the revised Industrial Fire Precaution Levels will supersede the attached levels.

#### INDUSTRIAL FIRE PRECAUTIONS SCHEDULE

-----  
LEVEL INDUSTRIAL FIRE PRECAUTION (IFPL)  
-----

- I. Closed season - Fire precaution requirements are in effect. A fire watch/security is required at this and all higher levels unless otherwise waived.

- II. Partial hootowl - The following may operate only between the hours of 8 p.m. and 1 p.m., local time:
- a. power saws, except at loading sites;
  - b. cable yarding;
  - c. blasting;
  - d. welding or cutting of metal.

- III. Partial shutdown - The following shall be prohibited except as indicated:
- a. cable yarding - except that gravity operated logging systems employing non-motorized carriages may be operated between the hours of 8 p.m. and 1 p.m., local time, when all block and moving lines, except the line between the carriage and the chokers, are suspended 10 feet above the ground;
  - b. power saws - except power saws may be used at loading sites and on tractor/skidder operations between the hours of 8 p.m. and 1 p.m., local time.

In addition, the following are permitted between the hours of 8 p.m. and 1 p.m., local time:

- a. tractor/skidder operations;
- b. mechanized loading and hauling of any product or material;
- c. blasting;
- d. welding or cutting of metal;
- e. any other spark-emitting operation not specifically mentioned.

IV. General shutdown - All operations are prohibited.

The following definitions shall apply to these Industrial Fire Precaution Levels:

*Cable yarding systems:* A yarding system employing cables and winches in a fixed position.

*Closed season (Fire Precautionary Period):* That season of the year when a fire hazard exists as declared by the responsible agency official.

*Contracting Officer:* The person executing the contract, permit or license on behalf of the Government and includes that person's designated representative, acting within the limits of their authority or the duly appointed successor to the individuals.

*Loading sites/woods site/project area:* A place where any product or material (including but not limited to logs, firewood, slash, soil, rock, poles, posts, etc.) is placed in or upon a truck or other vehicle.

*Low hazard area:* Means any area where the responsible agency representative (WDNR, ORF, BIA, BLM) determines the combination of elements reduces the probability of fire starting and/or spreading.

*Tractor/skidder operations:* include a harvesting operation, or portion of a harvesting operation, where tractors, skidders, or other harvesting equipment capable of constructing fire line, are actively yarding forest products and can quickly reach and effectively attack a fire start.

Waivers, written in advance, may be used for any and all activities. Activities for which waivers may be issued include, but are not limited to:

- a. mechanized loading and hauling;
- b. road maintenance such as sprinkling, graveling, grading and paving;
- c. cable yarding using gravity systems or suspended lines and blocks, or other yarding systems where extra prevention measures will significantly reduce the risk of fire;
- d. power saws at loading sites or in felling and bucking where extra prevention measures will significantly reduce the risk of fire;

- e. maintenance of equipment (other than metal cutting and welding) or improvements such as structures, fences and powerlines.

Such waiver, or substitute precautions will prescribe measures to be taken by the Contractor to reduce the risk of ignition, and/or the spread of fire. The Contracting Officer shall consider site specific weather factors, fuel conditions, and specific operations that result in less risk of fire ignition and/or spread than contemplated when precaution level was predicted. Consideration shall also be given to measures that reduce the precaution levels above. The Contractor shall assure that all conditions of such waivers or substitute precautions are met prior to the start of work, from the appropriate Ranger District headquarters. If predictions made after 6:00 p.m., local time, are significantly different than the original prediction, the Forest Service will inform the Contractor when changes in restrictions or industrial precautions are made.

Where hauling involves transit through more than one shutdown/regulated use area, the precaution level at the woods loading site shall govern the level of haul restriction, unless otherwise prohibited by other than industrial precaution level system.

### **Fire Tools**

The Contractor shall furnish serviceable firefighting tools in a readily accessible fire tool box or compartment of sound construction with a hinged lid and hasp so arranged that the box can be secured or sealed. The box shall be red and marked "Fire Tools" in letters one inch high. It shall contain a minimum of:

- a. 2 axes or Pulaskis with a 32-inch handle;
- b. 3 adze eye hoes. One Pulaski may be substituted for 1 adze eye hoe;
- c. 3 long-handled, round point shovels, size "0" or larger.

### **Fire Security**

When the Industrial Fire Precautions Level is "I" or higher, unless a waiver is granted, the Contractor shall designate a person who shall perform fire security services listed below on the project area and vicinity. The designated person shall be capable of operating the Contractor's communications and firefighting equipment specified in the contract, excluding helicopters, and of directing the activities of the Contractor's personnel on forest fires. In lieu of having the designated person perform the required supervisory duties, the Contractor may provide another person meeting the qualifications stated above to direct the activities of Contractor's personnel and equipment during all firefighting activities.

Services described shall be for at least 1 hour from the time the Contractor's operations are shut down. For the purposes of this provision, personnel servicing equipment, and their vehicles, who are not engaged in cutting or welding metal are excluded.

Fire security services shall consist of moving throughout the operation area or areas constantly looking, reporting, and taking suppression action on any fires detected. Where possible, the designated person shall observe inaccessible portions of helicopter operating areas from vantage points within or adjacent to project area.

### **Communication**

The Contractor shall provide adequate two-way communication facilities to report a fire to Forest Service within 15 minutes of detection. FCC Regulations prohibit commercial use of Citizen Band (CB) radios. (CB's are not considered adequate two-way communication). Such communication shall be operable during periods of operation of power-driven equipment, including the time fire security is required.

## APPENDIX C – Proposal Forms

**Table 1. Bid Sheet for Lump Sum Elements and Items**

The aspects of the contract included in this table are offered as lump sum. Please further describe line items as needed and include a lump sum amount for successful completion of that line item. If the bidder intends to subcontract an element of this project, mobilization can be separated out by element.

LUMP SUM BID SHEET		
Task Description	Line Item Cost	
Mobilization / demobilization <i>*Please provide detailed description of what is included (e.g., equipment transport, per diem, fuel, etc.)</i>		
Fire truck and firefighting resources <i>*Describe tank size and other relevant information</i>		
Element #1 – Upland Tree Harvest		
Task Description	Proposed Equipment <i>(please list make, type and class)</i>	Line Item Cost
<b>Tip 162 trees in three ¼-acre upland units</b> (#1-3 in Table 1); deck trees in pre-designated areas in close proximity to haul road; pile tree tops; scatter slash within units; rehabilitate and decommission skid road(s); reconstruct berm and water bar on road 2134_255; spread seed and weed-free straw in disturbed areas	Equipment 1:  Equipment 2:  Equipment 3:	
<b>Tip 39 trees within one ½-acre upland unit</b> (#4 in Table 1); deck trees in pre-designated areas in close proximity to haul road; pile tree tops; scatter slash within unit; rehabilitate and decommission skid road(s); spread seed and weed-free straw in disturbed areas	Equipment 1:  Equipment 2:  Equipment 3:	
<b>Thin 50 trees within one ½-acre upland unit</b> (#5 in Table 1); deck trees in pre-designated areas in close proximity to haul road; pile tree tops; scatter slash within unit; rehabilitate and decommission skid road(s); spread seed and weed-free straw in disturbed areas	Equipment 1:  Equipment 2:  Equipment 3:	

<b>Element #2 – Tree Transport</b>		
<b>Task Description</b>	<b>Proposed Equipment (please list make, type and class)</b>	<b>Line Item Cost</b>
Transport 162 trees (80-90', varying diameters, rootwads intact) less than 3 miles from ¼-acre upland units to floodplain project area; transport tree tops and slash to floodplain project area	Equipment 1:  Equipment 2:  Equipment 3:	
Transport 39 trees (80-110', varying diameters, rootwads intact) and associated tree tops approximately 3 miles from ½-acre upland units to floodplain project area	Equipment 1:  Equipment 2:  Equipment 3:	
Transport 50 trees (80-110', varying diameters, rootwads intact) and associated tree tops approximately 3 miles from ½-acre upland units to floodplain project area	Equipment 1:  Equipment 2:  Equipment 3:	

**Total Amount for Lump Sum Items: \$ \_\_\_\_\_**

**Table 2. Bid Sheet for Time and Materials Elements and Items**

The aspects of the contract included in this table are offered as time and materials. In the first section, please describe materials needed including quantities and unit costs. In the second section, please describe equipment needed (make, type and size) for floodplain activities, expected hours and hourly rates including operator cost. In the third section, please list hourly rates and expected hours for personnel not included in equipment costs for floodplain activities (element #3).

TIME & MATERIALS BID SHEET – page 1				
MATERIALS	Description of Materials	Quantity	Unit Cost	Estimated Line Item Cost
Weed-free straw for upland tree harvest units, skid roads, and disturbed areas in the floodplain	N/A			
Stream diversion and/or diversion crossing materials (e.g., super sacks, culverts, etc.)  <i>Please list in next column</i>				
Other necessary materials  <i>Please list in next column</i>				

**TIME & MATERIALS BID SHEET – page 2**

***Element #3 – Floodplain Activities***

<b>Task Description</b>	<b>Equipment including operator costs (please list make, type and size)</b>	<b>Expected Hours</b>	<b>Hourly Rate</b>	<b>Line Item Cost</b>
Remove trail bridge and retain stringers	Equipment 1:			
	Equipment 2:			
	Equipment 3:			
	Equipment 4:			
	Equipment 5:			
Clear vegetation from 8 acres within the floodplain and set aside for log jams	Equipment 1:			
	Equipment 2:			
	Equipment 3:			
	Equipment 4:			
	Equipment 5:			
Divert at least 90% of streamflow into diversion channel; ensure turbidity standards are met; construct crossing of stream diversion	Equipment 1:			
	Equipment 2:			
	Equipment 3:			
	Equipment 4:			
	Equipment 5:			

**TIME & MATERIALS BID SHEET – page 3**

Excavate ~17,000 cubic yards of material and redistribute throughout project area	Equipment 1:			
	Equipment 2:			
	Equipment 3:			
	Equipment 4:			
	Equipment 5:			
Build complex log jams and accumulations throughout floodplain, including burying logs and scattering remaining slash; includes trees from upland harvest, trees already staged on site, and vegetation cleared from floodplain	Equipment 1:			
	Equipment 2:			
	Equipment 3:			
	Equipment 4:			
	Equipment 5:			
Rehabilitate and decommission skid roads and disturbed areas (spread seed and straw; subsoil)	Equipment 1:			
	Equipment 2:			
	Equipment 3:			
	Equipment 4:			
	Equipment 5:			
Other (describe)				

<b>TIME &amp; MATERIALS BID SHEET – page 4</b>			
<b>PERSONNEL FOR ELEMENT #3 (not included in equipment costs)</b>	<b>Expected Hours</b>	<b>Hourly Rate</b>	<b>Line Item Cost</b>
Fire Watch			
Laborer 1 (describe)			
Laborer 2 (describe)			
Other (describe)			
Other (describe)			

**Not to Exceed Amount for Time & Material Bid Sheet: \$\_\_\_\_\_**

**Proposal Questions:**

- 1. Please describe how you will tip trees in upland forest units, maintaining rootwads intact and not damaging trees not marked for removal.***

**2. Please describe how you will transport trees from upland units to floodplain project site.**

**3. Please describe how you will dewater Coal Creek, including the materials you will use.**

**4. Please describe how you plan to approach this project, including the order in which you will conduct each task.**

**5. Please describe your and/or your company's relevant work experience.**

**References**

Please provide contact information for two references that can speak to your ability to implement a project of this scale:

Reference 1

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Reference 2

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

***Proposal Certification***

The name of the Proposer submitting this Proposal is: \_\_\_\_\_

Business name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Proposer Certifications**

The undersigned, hereinafter called the Proposer, declares that the only person(s) interested in this Proposal are those named herein; that the Proposal is in all respect fair and without fraud; and, that is made without collusion with any other person submitting a Proposal on this Project.

The Proposer further declares that he/she has carefully examined the information presented within the RFP Document and is satisfied as to the type and quantities of materials, conditions, and the work involved. The Proposer further agrees that they have used their own judgement regarding the Project and obtained the information they believe pertinent and appropriate for arriving at their conclusion.

Signature of Proposer: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_