

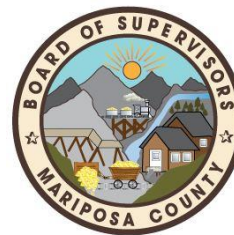


MARIPOSA COUNTY

P.O. Box 784 Mariposa, CA 95338 (209) 966-3222

5100 Bullion Street

<http://www.mariposacounty.org/>



ROSEMARIE SMALLCOMBE, CHAIR

MILES MENETREY, VICE-CHAIR

VACANT

MARSHALL LONG

WAYNE FORSYTHE

DISTRICT I

DISTRICT V

DISTRICT II

DISTRICT IV

DISTRICT IV

ACTION SUMMARY MINUTES

August 30, 2022

SPECIAL MEETING

A. 9:00 AM Called to Order and Roll Call

Attendee Name	Title	Status	Arrived
Rosemarie Smallcombe	District I Supervisor	Present	9:00 AM
Marshall Long	District III Supervisor	Present	9:00 AM
Wayne Forsythe	District IV Supervisor	Present	9:00 AM
Miles Menetrey	District V Supervisor	Present	9:00 AM

B. Pledge of Allegiance

Chair Smallcombe led the Pledge.

C. Regular Agenda

1. Administration 2022-ORD-1178

Adopt an Interim Urgency Ordinance Establishing Procedures and Requirements for Fire Debris and Hazard Tree Removal for Properties Impacted by the Oak Fire 4/5ths Vote Required

Dallin Kimble/CAO and Sarah Williams/Planning Director presented the staff report. No public comment. Board discussion ensued.

RESULT: ADOPTED [UNANIMOUS]

MOVER: Wayne Forsythe, District IV Supervisor

SECONDER: Marshall Long, District III Supervisor

AYES: Rosemarie Smallcombe, Marshall Long, Wayne Forsythe, Miles Menetrey

2. Administration RES-2022-500

Approve a User Agreement with Tetra Tech, Inc., for Assessment and Monitoring Services Related to Disaster Debris Removal and Hazard Tree Removal (\$5,000,000); and Authorize the Board Chair to Sign the Agreement

Dallin Kimble presented the staff report. No public comment. Board discussion ensued.

RESULT: ADOPTED [UNANIMOUS]

MOVER: Wayne Forsythe, District IV Supervisor

SECONDER: Marshall Long, District III Supervisor

AYES: Rosemarie Smallcombe, Marshall Long, Wayne Forsythe, Miles Menetrey

D. Closed Session

1. **Administration (ID # 13340)**

CLOSED SESSION: Public Employment, Title or Position to be Filled: (Government Code Section 54957 (B) (1)); County Librarian

No public comment.

RESULT: CLOSED SESSION HELD

Recessed

9:37 AM Chair Smallcombe moved the meeting into Closed Session.

Reconvened

12:06 PM Chair Smallcombe reported out that information was received.

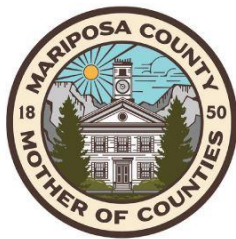
E. Adjournment

12:06 PM Chair Smallcombe adjourned the meeting.

Respectfully submitted,

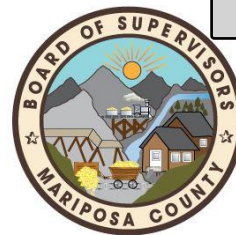
Tracy Gauthier
Deputy Clerk of the Board II

Rosemarie Smallcombe
Chair, Board of Supervisors



MARIPOSA COUNTY

Administration • 966-3222



ORDINANCE 2022-1178

MEETING: August 30, 2022

TO: The Board of Supervisors

FROM: Dallin Kimble, County Administrative Officer

RE: Interim Urgency Ordinance - Procedures and Requirements for Oak Fire Debris and Hazard Tree Removal

RECOMMENDED ACTION AND JUSTIFICATION:

Adopt Interim Urgency Ordinance Establishing Procedures and Requirements for Fire Debris and Hazard Tree Removal for Properties Impacted by the Oak Fire.

To aid in the recovery efforts of counties which have experienced devastating losses due to wildland fires, the California Governor's Office of Emergency Services established the State Consolidated Debris and Hazard Tree Removal Program. In this program, counties work with the State and, if applicable, the Federal Emergency Management Agency (FEMA) to conduct wildfire debris and/or tree removal at no cost to the property owner. As a participant and partner of the State in the execution of the program, **Mariposa County must perform certain tasks**. One of those requirements is the adoption of an urgency ordinance which contains specific provisions. The proposed Interim Urgency Ordinance was developed based on the State's urgency ordinance template.

BACKGROUND:

Requirements of Interim Urgency Ordinance and Program

County must perform certain tasks to be a participant and partner in the State Consolidated Debris and Hazard Tree Removal Program.

County must adopt urgency ordinance.

Property owners in fire impacted area which contains wildfire debris must remediate their site by either:

- Participating in State Consolidated Program
- Pursuing remediation through private option

State Consolidated Program

Right of Entry (ROE) Form

- Property owners must sign Right of Entry (ROE) (form is provided by Cal OES and may not be modified)
- County must ensure that homeowner's insurance information is provided on the ROE
- County must confirm property ownership for ROEs
- County must confirm eligible structure on parcel for which ROE is provided

Insurance Collection

- County will make reasonable efforts to collect insurance proceeds from insured property owners
- County must contact insurance companies
- County must communicate costs of debris removal process to insurance companies
- County must demand payment for reimbursement from insurance companies
- If insurance company paid the policyholder, then County must demand payment from policyholder (for debris and hazard tree removal portion of payment only)
- County must remit insurance payments to state with documentation

Cost Share

- County pays appropriate local cost share (may be as high as 25%)

Homeowner Personal Property

- County responsible for intaking, storing and managing personal property discovered during debris operations
- County responsible for notifying and distributing property to appropriate owner
- Sheriff responsible for intaking, storing and returning firearms discovered during debris operations

Private Option

County must establish alternate program for those not participating in state program.

Alternate program requires property owners to remove fire debris and hazard trees pursuant to state and federal standards.

Enforcement Requirements - Nuisance Abatement

If property owners don't participate in the State Consolidated Program and don't pursue the Private Option, then County must pursue abatement procedures / abatement warrants, to obtain compliance.

Costs for remediation are to be levied against property owners.

Nuisance abatement process are established by the Interim Urgency Ordinance. Once the Interim Urgency Ordinance expires, the nuisance abatement provisions established by the ordinance will also expire. The nuisance abatement provisions will only be applicable to Oak Fire Debris and Hazard Tree Removal (if a property owner doesn't successfully complete the site remediation by either the State Consolidated Program or the Private Option).

Building Permits

No building permits can be issued until all fire debris and hazard tree cleanup is completed on affected property.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

July 26, 2022: Resolution No. 2022-434 ratifying the July 23rd, 2022 Proclamation by the Director of Emergency Services of the County of Mariposa, State of California, Proclaiming the Existence of a Local Emergency (due to the Oak Fire)

July 26, 2022: Resolution No. 2022-4352 ratifying the July 22nd, 2022 Declaration of a Local Health Emergency by the County Health Officer (due to the Oak Fire)

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

Alternative: Amend text of draft Interim Urgency Ordinance. Any significant changes (to the State's Ordinance Template) could affect the County's eligibility for participating in the State Consolidated Debris and Hazard Tree Removal Program.

Negative Action: Do not adopt Interim Urgency Ordinance. The County would not be eligible for partnering with the State in the State Consolidated Debris and Hazard Tree Removal Program. Sites impacted by the Oak Fire may not be properly remediated.

ATTACHMENTS:

220830 Urgency Ordinance-Oak Fire Debris and Tree Removal (PDF)

State Guidance For Counties 2021 (PDF)

State Urgency Ordinance Template (PDF)

220830 Summary of Oak Fire Urgency Ordinance for Publication (DOC)

RESULT: **ADOPTED [UNANIMOUS]**

MOVER: Wayne Forsythe, District IV Supervisor

SECONDER: Marshall Long, District III Supervisor

AYES: Rosemarie Smallcombe, Marshall Long, Wayne Forsythe, Miles Menetrey

MARIPOSA COUNTY ORDINANCE NO. ____

**AN INTERIM URGENCY ORDINANCE ESTABLISHING
PROCEDURES AND REQUIREMENTS FOR FIRE DEBRIS AND HAZARD
TREE REMOVAL FOR PROPERTIES IMPACTED BY THE OAK FIRE**

WHEREAS, this Interim Urgency Ordinance shall be known as “An Interim Urgency Ordinance Establishing Procedures and Requirements for Fire Debris and Hazard Tree Removal for Properties Impacted by the Oak Fire”; and

WHEREAS, this Ordinance shall implement procedures and requirements for the Removal of Fire Debris and Hazard Trees resulting from the Oak Fire and addresses the Local Health Emergency as set forth in the July 22nd, 2022 Declaration by the County Health Officer, which was ratified by the Board of Supervisors on July 26th, 2022.

NOW, THEREFORE, THE BOARD OF SUPERVISORS OF THE COUNTY OF MARIPOSA, a political subdivision of the State of California, does ordain as follows:

Section 1. Findings and Declarations

- A. Pursuant to Article XI, section 7 of the California Constitution, the County of Mariposa (“County”) may adopt and enforce ordinances and regulations not in conflict with general laws to protect and promote the public health, safety, and welfare of its residents.
- B. Pursuant to Government Code section 25123, the County may adopt an urgency ordinance that takes effect immediately, to protect against an immediate threat to the public safety, health, and welfare.
- C. Section 101080 of the California Health and Safety Code empowers the County Health Officer to declare a Local Health Emergency if he or she reasonably determines that conditions of exposure to hazardous waste exist that pose an immediate threat to the public health, and requires the Local Health Emergency to expire after seven (7) days unless ratified by the Board of Supervisors, and requires the Board of Supervisors to review the need for continuing the Local Health Emergency at least once every thirty (30) days and proclaim the termination of the Local Health Emergency at the earliest possible date that conditions warrant the termination.
- D. On Friday, July 22, 2022, at approximately 2:00 p.m., a fire broke out at 4966 Carstens Road in Midpines, approximately five (5) miles east of the town of Mariposa. The Oak Fire rapidly expanded toward the south/southeast, toward Triangle Road, Darrah Road, Silva Road, Lushmeadows, Jerseydale, Bootjack and Ponderosa Basin. Over 200 structures were ultimately destroyed by the Oak Fire, with 127 of those being residential dwelling units.
- E. On Saturday, July 23rd, 2022, the Director of Emergency Services of the County of Mariposa, State of California proclaimed the existence of a Local Emergency due to the Oak Fire.

- F. On Tuesday, July 26th, 2022, the Board of Supervisors ratified the Director of Emergency Services' July 23rd, 2022 proclamation of the existence of a Local Emergency due to the Oak Fire.
- G. On Friday, July 22nd, 2022, the County Health Officer declared a Local Health Emergency due to the Oak Fire.
- H. On Tuesday, July 26th, 2022, the Board of Supervisors ratified the County Health Officer's declaration of a Local Health Emergency due to the Oak Fire.
- I. On Saturday, July 23rd, 2022, pursuant to Government Code section 8625, California Governor Newsom declared a State of Emergency in the County of Mariposa, due to the Oak Fire.
- J. In destroying private structures, the Oak Fire has created an accumulation of Fire Debris, much of which has been determined to be contaminated with heavy metals and asbestos.
- K. The potential for widespread toxic exposures and threats to public health and the environment exist in the aftermath of a major fire disaster. Debris and ash from residential structure fires contain hazardous substances that may lead to acute and chronic health problems and may have serious environmental impacts.
- L. The combustion of building materials such as siding, roofing tiles, and insulation results in dangerous ash that may contain asbestos, heavy metals, and other hazardous materials. Household hazardous waste such as paint, gasoline, cleaning products, pesticides, and other chemicals that may have burned in the fire also produce hazardous materials.
- M. Exposure to hazardous substances may lead to acute and chronic health effects and may cause long-term public health and environmental impacts.
- N. Uncontrolled hazardous materials and debris pose significant threats to public health through inhalation of dust particles and contamination of drinking water supplies. Improper handling of hazardous materials can expose workers to toxic materials, and improper transport and disposal of Fire Debris can spread hazardous substances throughout the community.
- O. Dead and dying trees damaged by the Oak Fire and at risk of falling may threaten the health, safety and welfare of workers conducting debris removal and residents of the affected properties, as well as the general public if the trees are at risk of falling onto a public right of way or public infrastructure.
- P. The anticipated start of the rainy season offers little time to mitigate further environmental contamination resulting from the fire, including contamination of the watershed, and, therefore, time is of the essence in removing hazardous waste, Fire Debris and Hazard Trees from affected properties.
- Q. Pursuant to Article XI, section 7 of the California Constitution and Government Code section 25845, the County may adopt and enforce ordinances and regulations not in conflict with general laws to protect and promote the public health, safety and welfare of its residents.
- R. Government Code section 25123(d) authorizes the adoption of an interim urgency ordinance for the immediate preservation of the public peace, health, or safety, where there is a declaration of the facts constituting the urgency and the ordinance is adopted by a four-fifths vote of the Board.

- S. There is an urgent need to mitigate the harm to public health and the environment from the improper disturbance, removal, transport and/or disposal of hazardous waste, Fire Debris and Hazard Trees resulting from the Oak Fire, to create and implement clear standards and procedures for removal of Fire Debris and Hazard Trees, and to facilitate coordinated, timely, and effective mitigation of the risks to public health and the environment from the health hazards generated by the Oak Fire.
- T. There is no feasible alternative to enactment of this Ordinance that will satisfactorily mitigate or avoid the identified impacts to the public health, safety and welfare with a less burdensome or restrictive effect.

Section 2. Definitions

- A. "Alternative Program." The term "Alternative Program" shall mean the requirements for inspections, clean up and disposal established by the County of Mariposa for property owners that opt out of or are ineligible for a Consolidated Program.
- B. "Board." The term "Board" means the Mariposa County Board of Supervisors.
- C. "Consolidated Debris and Hazard Tree Removal Program" or "Consolidated Program" means the Fire Debris and Hazard Tree Removal Program operated by Mariposa County for the Oak Fire area in conjunction with the California Governor's Office of Emergency Services and involving the removal and disposal of Fire Debris and Hazard Trees on eligible private property at no cost to the property owner.
- D. "County." The term "County" means the County of Mariposa.
- E. "County Building Official." The term "County Building Official" means the Mariposa County Building Director.
- F. "County Health Officer." The term "County Health Officer" means the Mariposa County Public Health Officer.
- G. "Director." The term "Director" means the Director of the Environmental Health Unit of the Mariposa County Health and Human Services Agency.
- H. "Fire Debris." The term "Fire Debris" means ash or other debris resulting from the Oak Fire that is intended to be discarded but does not include structures or portions thereof.
- I. "Hazard Trees." The term "Hazard Trees" means wildfire-damaged trees that have been so damaged by the Oak Fire that their structural integrity is compromised, and they pose an immediate threat of falling onto work crews or obstructing their access to the debris clearance site or falling onto a public right of way or a public improved property.
- J. "Removal of Fire Debris and Hazard Trees." The term "Removal of Fire Debris and Hazard Trees" includes all cleanup of debris from structures and Hazard Trees resulting from the Oak Fire, including removal, transport and disposal of Fire Debris and Hazard Trees, but it does not include the removal of personal property from residential sites unless such removal of personal property involves cleanup and the removal of ash from the property.
- K. "Right of Entry Permit." The term "Right of Entry Permit" means the Debris and Hazard Tree Removal Right of Entry Permit for providing Fire Debris and Hazard Trees removal on private property under the Consolidated Debris and Hazard Tree Removal Program operated by Mariposa County for use in the cleanup after the Oak Fire.

Section 3. Effective Date

This Ordinance shall take effect immediately upon its approval by at least four-fifths vote of the Board of Supervisors pursuant to Government Code section 25123(d), and shall remain in effect until the later of the cleanup of all Fire Debris on all fire-damaged properties from the Oak Fire or the completion of all enforcement matters related to this Ordinance, if any.

Section 4. Prohibition on Removal of Fire Debris from Private Property

No Removal of Fire Debris and Hazard Trees shall occur unless and until a hazardous materials inspection meeting applicable Department of Toxic Substances Control guidelines has been conducted. Notwithstanding the foregoing, Hazard Trees may be removed from vacant properties or properties on which no structures were damaged without a hazardous materials inspection, subject to the other requirements of this Ordinance.

Section 5. Removal of Fire Debris and Hazard Trees

- A. Consolidated Program. Property owners that, pursuant to the rules established by the Consolidated Program that will be set forth in guidelines provided by the Director, are eligible for the removal of some or all of the Fire Debris and Hazard Trees on their properties through the Consolidated Program, may elect to use the Consolidated Program by submitting a Right of Entry Permit to the Director, which includes an assignment of any insurance proceeds covering the costs of the Fire Debris and Hazard Trees removal. Such Right of Entry Permit must be submitted to the Director by the deadline as provided by the Director. The Director may extend this deadline as necessary and appropriate to facilitate the cleanup, avoid undue hardship, and protect public health and safety, and to the extent any such extensions are approved by the Consolidated Program.
- B. Alternative Program.
 - i. Administration. The Director shall administer the Alternative Program. The Director shall utilize applicable state and/or federal standards for the safe removal and disposal of Fire Debris and Hazard Trees, consistent with the cleanup goals of the Consolidated Program, and incorporate additional requirements as necessary to address changes in conditions, needs, or technologies in order to effectively remove Fire Debris and Hazard Trees from the community. The Director shall prepare procedures and requirements for the Removal of Fire Debris and Hazard Trees and make such procedures and requirements available to the public. The Director shall also provide an application with information that identifies appropriately licensed contractors and describes needed plans to meet such procedures and requirements.
 - ii. Participation. Property owners who are not eligible for the Consolidated Program or who elect not to participate in the Consolidated Program for the removal of some or all of the Fire Debris and Hazard Trees on their properties must comply with the requirements of the Alternative Program. Under the Alternative Program, before any Fire Debris and Hazard Trees are removed from a property, the owner

shall submit the required application to the Director together with all required attachments. Work shall not begin until the Director approves the application and the property owner obtains all applicable permits from the County Building Official.

- iii. Completion. The Director shall establish a deadline by which properties in the Alternative Program must be cleaned up. Upon the completion of the Removal of Fire Debris and Hazard Trees under the Alternative Program, the property owner shall submit to the Director required documentation that demonstrates the Removal of Fire Debris and Hazard Trees was completed in compliance with applicable standards and requirements as established by the Director.
 - iv. Deadline. The Director shall establish a deadline by which property owners who are not participating in the Consolidated Program must submit an Alternative Program application to the Director in accordance with Section 5.B.ii of this Ordinance. Such properties that have Fire Debris from structures damaged or destroyed in the Oak Fire or Hazard Trees damaged or destroyed in the Oak Fire that have not submitted an application for the Alternative Program by that date are hereby declared a public nuisance and health hazard and shall be subject to nuisance abatement provisions pursuant to Section 5.E of this Ordinance.
 - v. Extensions. The Director may extend deadlines under the Alternative Program as necessary and appropriate to facilitate the cleanup, avoid undue hardship, and to protect public health and safety.
- C. Restrictions on Building Permits. No building permit from the County to demolish, repair, or reconstruct a structure that has been damaged or destroyed by the Oak Fire shall be issued until Fire Debris and Hazard Trees cleanup is completed on the affected property in accordance with the Alternative Program or the Consolidated Program. Any permit for the demolition, repair, or reconstruction of a structure that has been damaged or destroyed by the Oak Fire shall be held in abeyance and not acted upon until Fire Debris and Hazard Trees cleanup is completed on the affected property and completion is confirmed to the County Building Official by the Director, either through the Alternative Program or the Consolidated Program. This restriction may also apply to permits for power, and well and septic system repair on impacted parcels. Notwithstanding the foregoing, a demolition or miscellaneous permit issued by the County Building Official may be required for Removal of Fire Debris and Hazard Trees for work involving the removal of buildings, structures, or portions thereof, as determined by the Director.
- D. Exigent Circumstances. The Board's intent is to facilitate an orderly remediation of large-scale disasters. Nothing in the deadlines as set forth by this Ordinance shall limit the authority of the County or any County official to abate hazards more quickly where required by exigent circumstances. Nothing in this Ordinance shall limit the authority of the County or any County official to take any enforcement action or pursue any available remedies, including, without limitation, requiring preventive measures as defined in Health and Safety Code section 101040.

E. Nuisance Abatement.

- i. Civil Abatement. Any property deemed a public nuisance in accordance with this Ordinance shall be subject to nuisance abatement pursuant to this Ordinance and other applicable law.
- ii. Summary Abatement. In addition to any other nuisance abatement procedures provided by law, the Director and County Health Officer and their designee are authorized to enter onto any property deemed a public nuisance under this Ordinance. If the County Health Officer finds that the property constitutes an immediate threat to public health or safety, the Director may summarily abate the nuisance upon satisfaction of the summary abatement procedures set forth below, as applicable.
 - a. Pre-Abatement Notice. Unless emergency conditions preclude doing so, the Director shall issue a Summary Abatement Notice and Order to the property owner(s) of record, as listed on the last equalized tax roll or as provided to the Director by the County Assessor-Recorder. A summary of the Notice and Order shall be posted in a conspicuous location on the property to be abated at least ten (10) calendar days prior to the summary abatement action.
 - b. Appeal and Waiver. The property owner(s) or any person or entity having a legal interest in the property may submit a written appeal of the Director's Order, to the Director or the Director's designee, by United States mail, overnight mail, or personal delivery, no later than fifteen (15) calendar days from the date the Director mailed or delivered the Notice and Order. The written appeal shall state the basis for the appeal. The Director or the Director's designee shall review the appeal, if the appeal is timely, and shall issue a written decision no later than ten (10) calendar days after receipt. The Director's or the designee's decision on the appeal shall uphold, rescind or modify the determination of the Notice and Order. The Director's or the designee's decision on the appeal shall be final. A copy of the Director's or the designee's determination shall be delivered, promptly upon its issuance, to the appellant by United States mail or personal delivery at the address listed on the last equalized tax roll or such other address provided by the appellant. Failure to appeal within the time prescribed shall constitute a waiver of the right to contest the Summary Abatement.
 - c. Post-Abatement Notice. After the Summary Abatement is completed, the Director shall promptly deliver to the property owner(s) a Post-Abatement Notice indicating: (a) the action taken by the County; (b) the reasons for the actions; (c) the costs of the abatement and a request that the costs be paid by the property owner(s) to the County within sixty (60) calendar days; and (d) that a lien will be recorded against the property if the property owner(s) fail(s) to pay the requested abatement

costs within sixty (60) calendar days. The Post-Abatement Notice shall be delivered by United States mail or personal delivery.

- F. Judicial Enforcement Action. County Counsel is authorized to initiate judicial enforcement as to a violation of any provision of this Ordinance without further Board approval.
- G. Remedies Not Exclusive. The remedies identified in this Ordinance are in addition to and do not supersede or limit any and all other remedies, civil or criminal, available at law or in equity.

Section 6. Environmental Determination

Adoption of this Interim Urgency Ordinance is exempt from the provisions of the California Environmental Quality Act (“CEQA”) pursuant to California Public Resources Code section 21080(b)(3), which applies to projects undertaken, carried out by, or approved by a public agency to maintain, repair, restore, demolish, or replace property or facilities damaged or destroyed as a result of a disaster in a disaster-stricken area in which a state of emergency has been proclaimed by the Governor pursuant to the California Emergency Services Act, Government Code sections 8550 et seq., and Government Code section 21080(b)(4) regarding specific actions necessary to prevent or mitigate an emergency. These exemptions are also established by State CEQA Guidelines section 15269(a) and (c). The Oak Fire and its aftermath constitute a sudden unexpected occurrence, involving clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services under California Public Resources Code section 21060.3 and State CEQA Guidelines section 15359.

Section 7. Severability

If any provision of this Ordinance or the application thereof to any person, property, or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this Ordinance that can be given effect without the invalid provisions or application thereof, and to this end, the provisions of this Interim Urgency Ordinance are hereby declared to be severable.

Section 8. Conflicting Regulations

If any portion of this Interim Urgency Ordinance conflicts with any existing Mariposa County Code, this Ordinance shall take precedence.

Section 9. Publication and Posting

A fair and accurate summary of this Ordinance shall be published once before the expiration of fifteen (15) calendar days after said passage, with the names of the Supervisors voting for or against the same, in the *Mariposa Gazette*. A certified copy of the full text of this Ordinance shall be posted at the Office of the Clerk of the Board of Supervisors at 5100 Bullion Street, Mariposa, CA, and shall be available for public inspection and copying in that office in

accordance with the Public Records Act, Chapter 3.5 (commencing with Section 6250) of Division 7 of Title 1.

The foregoing Interim Urgency Ordinance was introduced, read and passed at a special meeting of the County of Mariposa Board of Supervisors, State of California, held on Tuesday, August 30th, 2022, by the following four-fifths vote:

AYES:

NOES

ABSTAINED:

EXCUSED:

ROSEMARIE SMALLCOMBE, Chair
 Mariposa County Board of Supervisors

ATTEST:

APPROVED AS TO FORM:

DANIELLE BONDSHU
 Clerk of the Board

STEVEN W. DAHLEM
 County Counsel

State of California Debris Removal Program

Guidance for Counties

I. PURPOSE AND BACKGROUND.

To aid in the recovery efforts the County, the California Governor's Office of Emergency Services (State) established the State Consolidated Debris and Hazard Tree Removal Program (Program), wherein the County will work with the State and, as applicable, the Federal Emergency Management Agency (FEMA) to conduct wildfire debris and/or tree removal.

As a participant and partner of the State in the execution of this Program, the County must perform certain tasks as outlined by this Guidance.

II. COUNTY RESPONSIBILITIES.

A. URGENCY ORDINANCE AND ABATEMENT.

1. The County will ensure requirements in their urgency ordinance are consistent with the Program. A model urgency ordinance is attached here as Exhibit A for the County's reference. The County's urgency ordinance should, at a minimum, contain the following elements:
 - a. An acknowledgement and recognition of the County Public Health Declaration finding that the fire debris, including hazard trees, constitutes an imminent health and safety threat and a public nuisance.
 - b. A requirement that each property owner who's property contains wildfire debris choose an option for remediating the condition on their property, either through the Program or through a private option.
 - c. A delegation of authority to the appropriate County department to develop criteria and metrics for a private cleanup option.
 - d. A notice to all affected property owners that any remaining debris will trigger abatement procedures and costs of removal will be levied against property owners.
2. The County will amend any portion of their urgency ordinance that conflicts with the Program. Cal OES recommends consultation between County Counsel and Cal OES legal prior to publishing urgency ordinance.
3. The County must pursue and execute abatement warrants for property owners who do not enter the Program or pursue an

approved private option (Alternate Program).

B. RIGHT-OF-ENTRY FORMS (ROEs).

1. Cal OES legal will provide an approved ROE template for use by County. County must accept the template as written without modification aside from personalization and placing the template on County letterhead.
2. The County will open and staff a ROE collection and processing center or provide an alternative method of soliciting ROEs and ROE withdrawal forms and answering questions regarding ROEs and the Program.
3. The County will ensure property owners provide homeowner's insurance information as required in the ROE form.
4. The County will collect, review, vet, and verify property ownership and sign off on ROE forms, owner transfer affidavits, ROE withdrawal forms and property owner insurance policies.
5. The County will, to the extent practicable, collect ROEs from all property owners interested in the Program by the target dates established by the State.
6. The County will transfer ROEs on a rolling basis to State debris-planning team via the State-provided system once local jurisdiction has verified that each ROE is signed by the legal property owner(s) and that the parcel contains an eligible structure, potentially eligible hazard trees, or both.
7. The County will respond to public inquiries regarding the ROE and the Program.

C. DUPLICATION OF BENEFITS - INSURANCE COLLECTION.

1. The County will make reasonable efforts to collect available insurance proceeds from all insured property owners.
2. Upon processing of the ROE form, County will notify the insurer by certified mail (Insurer Notice) of the existence of the Program, that the insured has opted to participate in the Program, and that the insured has assigned their benefits to the County. Upon completion of the mission, the State will provide per parcel cost information to

the County to facilitate this process, and the County will forward that information to the insurer.

3. In the Insurer Notice, the County will demand payment for reimbursement with the following limitations.
 - a. Payment will only be made pursuant to a specific debris removal provision in the policy. If such a specific coverage provision exists, reimbursement shall be limited to the particularized debris removal costs for the insured property, or the coverage limits under the debris removal provision, whichever is lower. Further, other documented costs of the property owner for the removal of debris related to the wildfires that are not removed as part of the Program, incurred within six (6) months of the Insurer Notice, shall take priority over reimbursement for the Program. However, any remaining amounts shall be payable to the local jurisdiction.
 - b. If debris removal coverage is contained as a portion of the total amount available for rebuilding, all rebuilding and other debris removal costs incurred within four (4) years of the Insurer Notice shall take priority over reimbursements for the Program. In other words, if the cost of rebuilding equals or exceeds the policy limits, no insurance payment to the program will be required and the owner shall bear no liability for any program costs. However, any remaining amounts shall be payable to the County.
 - c. If debris removal coverage is contained as a portion of the total amount available for rebuilding, and the homeowner decides not to rebuild, no insurance payment to the State Consolidated Debris Removal Program will be required and the property owner shall bear no liability for any program costs.
4. If no payment or response is received from the insurer, the County will continue to pursue contact with the insurer until affirmative contact is made.
5. If the insurer indicates that payment has been made to the policyholder, the County will make a request in line with the above sections by certified mail to the policyholder requesting remittance of unused policy funds.

6. The County will not be required to pursue collection of insurance proceeds beyond the homeowner's insurance proceeds.
7. Should the County engage a contractor to administer the insurance collection process, the costs associated with this contract may be eligible for reimbursement by FEMA and the State subject to the local cost share assuming all applicable local, state, and federal procurement procedures and rules are followed.
8. Once the County has exhausted its efforts to collect the available proceeds, it shall remit the insurance proceeds to the State with accompanying documentation identifying the homeowner, the insurance company, the property address, debris removal completion date and amount remitted per parcel.
9. When a property participating in the Program is transferred to a new owner, the County should seek reimbursement from the policy in effect during the insurable event.

D. COST SHARE. The County agrees to remit 25 percent of the non-federal share of the FEMA Public Assistance costs for the jurisdiction under the Program, except as otherwise documented. In State-only funded events, the County agrees to remit the appropriate local cost share as provided by the California Disaster Assistance Act and corresponding regulations.

E. COUNTY LIAISON.

1. The County will provide a liaison to the Debris Removal Operations Center (DROC) while the Program is active in that jurisdiction.
2. The liaison may work remotely from the DROC.
3. The liaison will attend debris operations meetings for updates on and progress of the Program and provide any local input necessary to facilitate debris operations.

F. HOMEOWNER PERSONAL PROPERTY.

1. The County will intake, store, and manage the personal property discovered during debris operations.

2. The County will notify and distribute property to the appropriate owner.

G. VIN VERIFICATION. The County will verify Vehicle Identification Number for damaged or destroyed vehicles.

H. COUNTY LAW ENFORCEMENT (LE) AND OTHER ASSISTANCE.

1. LE will take onsite possession of any firearms. LE will store and return to property owners to dispose of firearms discovered during debris removal operations.

I. FINAL SIGN-OFF (FSO) AND RETURN OF PROPERTY.

1. The County will receive FSO from the State when the property completes the Program.
2. The County will be responsible for officially informing owner of status of property and returning the property to the owner.

J. ALTERNATE PROGRAM (OPT-OUT PROGRAM).

1. The County will establish, at its discretion, an Alternate Program (or opt-out program).
2. Alternate Programs permit property owners to remove dire debris and hazard trees on their own or with professional contractors.

III. RECORDS RETENTION. The County will retain Program records for at least three (3) years from the date that the State submits to FEMA the final expenditure report. If, however, there is any litigation, claim, negotiation, audit, request for information, or other action involving the project or subaward that starts before that date, the records must be retained until completion of the action and resolution of all issues which arise from it, or until the end of the 3-year period, whichever is later.

Urgency Ordinance Template

Any Urgency Ordinance known as [NAME], to implement the requirements for Fire Debris and Hazard Trees removal resulting from the [NAME] Fire as set forth in the [DATE] Declaration by the County Health Officer, which was ratified by the Board of Supervisors on [DATE].

The Board of Supervisors of the County of [NAME] ordains as follows:

Section 1. Findings and Declarations

- A. Pursuant to Article XI, section 7 of the California Constitution, the County of [NAME] ("County") may adopt and enforce ordinances and regulations not in conflict with general laws to protect and promote the public health, safety, and welfare of its residents.
- B. Pursuant to Government Code section 25123, to protect against an immediate threat to the public safety, health, and welfare, the County may adopt an urgency ordinance that takes effect immediately.
- C. Section 101080 of the California Health and Safety Code empowers the County Health Officer to declare a Local Health Emergency if he or she reasonably determines that conditions of exposure to hazardous waste exist that pose an immediate threat to the public health, and requires the Local Health Emergency to expire after seven days unless ratified by the Board of Supervisors, and requires the Board of Supervisors to review the need for continuing the Local Health Emergency at least once every 30 days and proclaim the termination of the Local Health Emergency at the earliest possible date that conditions warrant the termination.
- D. [FIRE DETAILS: DATE IT BEGAN, DAMAGES, ETC.]
- E. [PROCLAMATION OF LOCAL EMERGENCY]
- F. [DATE BOARD OF SUPERVISORS RATIFIED THE LOCAL PROC]
- G. [COUNTY HEALTH OFFICER ORDER DETAILS REGARDING DEBRIS/HAZARD TREE]
- H. On [DATE], pursuant to Government Code section 8625, California Governor [Newsom] declared a state of emergency in the State of California, and in the County of [NAME], due to the fire(s) around the State, including [NAME] Fire in the County of [NAME].
- I. In destroying private structures, the [NAME] Fire has created an accumulation of Fire Debris, much of which has been determined to be contaminated with heavy metals and asbestos.
- J. The potential for widespread toxic exposures and threats to public health and the environment exists in the aftermath of a major fire disaster. Debris and ash from residential structure fires contain hazardous substances that may lead to acute and chronic health problems and may have serious environmental impacts.
- K. The combustion of building materials such as siding, roofing tiles, and insulation results in dangerous ash that may contain asbestos, heavy metals, and other hazardous materials, and household hazardous waste such as paint, gasoline,

cleaning products, pesticides, and other chemicals that may have burned in the fire also produces hazardous materials.

- L. Exposure to hazardous substances may lead to acute and chronic health effects, and may cause long-term public health and environmental impacts.
- M. Uncontrolled hazardous materials and debris pose significant threats to public health through inhalation of dust particles and contamination of drinking water supplies, and improper handling of hazardous materials can expose workers to toxic materials and improper transport and disposal of Fire Debris can spread hazardous substances throughout the community.
- N. Dead and dying trees damaged by the [NAME] Fire and at risk of falling may threaten the health, safety and welfare of workers conducting debris removal and residents of the affected properties, as well as the general public if the trees are at risk of falling onto a public right of way or public infrastructure.
- O. The anticipated start of the rainy season offers little time to mitigate further environmental contamination resulting from the Fire, including contamination of the watershed, and, therefore, time is of the essence in removing hazardous waste, Fire Debris and Hazard Trees from affected properties.
- P. Pursuant to Article XI, section 7 of the California Constitution and Government Code section 25845, the County may adopt and enforce ordinances and regulations not in conflict with general laws to protect and promote the public health, safety and welfare of its residents.
- Q. Government Code section 25123(d) authorizes the adoption of an urgency ordinance for the immediate preservation of the public peace, health, or safety, where there is a declaration of the facts constituting the urgency and the ordinance is adopted by a four-fifths vote of the Board.
- R. There is an urgent need to mitigate the harm to public health and the environment from the improper disturbance, removal, transport and/or disposal of hazardous waste, Fire Debris and Hazard Trees resulting from the Fire, to create and implement clear standards and procedures for removal of Fire Debris and Hazard Trees, and to facilitate coordinated, timely, and effective mitigation of the risks to public health and the environment from the health hazards generated by the [NAME] Fire.

NOW, THEREFORE, the Board of Supervisors of the County of [NAME] ordains as follows:

Section 2. Definitions

- A. "Alternative Program." For purposes of this Article, the term "Alternative Program" shall mean the requirements for inspections, clean up and disposal established by the County for property owners that opt out of or are ineligible for a State Program.
- B. "Board." The term "Board" means the [COUNTY NAME] Board of Supervisors.
- C. "County." The term "County" shall be defined as the County of [COUNTY NAME].

- D. "County Building Official." The term "County Building Official" means [COUNTY TO DEFINE].
- E. "County Health Officer." The term "County Health Officer" means the [NAME] County Public Health Officer.
- F. "Director." The term "Director" shall be defined as the Director of Environmental Health and Safety, or any person as designated by the Chief Administrative Officer of the County.
- G. "Fire Debris." The term "Fire Debris" means ash or other debris, resulting from the [NAME] Fire that is intended to be discarded but does not include structures or portions thereof.
- H. "Hazard Trees." The term "Hazard Trees" means wildfire-damaged trees that have been so damaged by the fires that their structural integrity is compromised, and they pose an immediate threat of falling onto work crews or obstructing their access to the debris clearance site, or of falling onto a public right of way or a public improved property.
- I. "Removal of Fire Debris and Hazard Tree." The term "Removal of Fire Debris and Hazard Trees" as used in this article includes all cleanup of debris from structures and Hazard Trees resulting from the [DISASTER NAME], including removal, transport and disposal of Fire Debris and Hazard Trees, but it does not include the removal of personal property from residential sites unless such removal of personal property involves cleanup and the removal of ash from the property.
- J. "Right of Entry Permit." The term "Right of Entry Permit" means the Debris and Hazard Tree Removal Right-of-Entry Permit (For Providing Fire Debris and Hazard Trees Removal on Private Property under the State Debris and Hazard Tree Removal Program) approved by the California Office of Emergency Services for use in the cleanup after the [DISASTER NAME].
- K. "State Debris and Hazard Tree Removal Program" or "State Program" means the Fire Debris and Hazard Trees removal program operated by the California Office of Emergency Services ("Cal OES") for the [DISASTER NAME] area in conjunction with other State and Federal agencies and involving the removal and disposal of Fire Debris and Hazard Trees on eligible private property at no cost to the property owner.

Section 3. EFFECTIVE DATE

This Ordinance shall take effect immediately upon its approval by at least four-fifths vote of the Board of Supervisors pursuant to Government Code section 25123(d), and shall remain in effect until the later of the cleanup of all Fire Debris on all fire-damaged properties from the [NAME] Fire or the completion of all enforcement matters related to this Ordinance, if any.

Section 4. Prohibition on Removal of Fire Debris from Private Property

No Removal of Fire Debris and Hazard Trees shall occur unless and until a hazardous materials inspection meeting applicable Department of Toxic Substances Control guidelines has been conducted. Notwithstanding the foregoing, Hazard Trees may be

removed from vacant properties or properties on which no structures were damaged without a hazardous materials inspection, subject to the other requirements of this Ordinance.

Section 5. Removal of Fire Debris and Hazard Trees

- A. State Program. Property owners that, pursuant to the rules established by the State Program that will be set forth in guidelines provided by the Director, are eligible for the removal of some or all of the Fire Debris and Hazard Trees on their properties through the State Program, may elect to use the State Program by submitting a Right of Entry Permit to the Director, which includes an assignment of any insurance proceeds covering the costs of the Fire Debris and Hazard Trees removal. Such Right of Entry Permit must be submitted to the Director by the deadline as provided by the Director. The Director may extend this deadline as necessary and appropriate to facilitate the cleanup, avoid undue hardship, and to protect public health and safety, and to the extent any such extensions are approved by the State Program.
- B. Alternative Program.
 - i. Administration. The Director shall administer the Alternative Program. The Director shall utilize applicable state and/or federal standards for the safe removal and disposal of Fire Debris and Hazard Trees, consistent with the cleanup goals of the State Program, and incorporate additional requirements as necessary to address changes in conditions, needs, or technologies in order to effectively remove Fire Debris and Hazard Trees from the community. The Director shall prepare procedures and requirements for the Removal of Fire Debris and Hazard Trees and make such procedures and requirements available to the public. The Director shall also adopt an application that discloses the appropriate licensed contractors and appropriate plans to meet such procedures and requirements.
 - ii. Participation. Property owners that are not eligible for the State Program or who elect not to participate in the State Program for the removal of some or all of the Fire Debris and Hazard Trees on their properties must comply with the requirements of the Alternative Program. Under the Alternative Program, before any Fire Debris and Hazard Trees are removed from a property, the owner shall submit the application adopted by the Director to the Director. Work shall not begin until the Director approves the application and the property owner obtains all applicable permits from the County Building Official.
 - iii. Completion. The Director shall establish an end date or deadline by which properties in the Alternative Program must be cleaned up. Upon the completion of the Removal of Fire Debris and Hazard Trees under the Alternative Program, the property owner shall submit to the Director documentation that demonstrates the removal of Fire Debris and Hazard

Trees was completed in compliance with applicable standards and requirements as established by the Director.

- iv. Deadline. The Director shall establish an end date or deadline by which property owners who are not participating in the State Program must submit an Alternative Program application to the Director in accordance with Section [5.B.ii] of this Ordinance. Such properties that have Fire Debris from structures damaged or destroyed in the [NAME] Fire or Hazard Trees damaged or destroyed in the [NAME] Fire that have not submitted an application for the Alternative Program by that date are hereby declared a public nuisance and health hazard and shall be subject to nuisance abatement pursuant to Section E of this Ordinance.
 - v. Extensions. The Director may extend deadlines under the Alternative Program as necessary and appropriate to facilitate the cleanup, avoid undue hardship, and to protect public health and safety.
- C. Restrictions on Building Permits. No building permit from the County to demolish, repair, or reconstruct a structure that has been damaged or destroyed by the [NAME] Fire shall be issued until Fire Debris and Hazard Trees cleanup is completed on the affected property in accordance with the Alternative Program or the State Program. Any permit for the demolition, repair, or reconstruction of a structure that has been damaged or destroyed by the [NAME] Fire shall be held in abeyance and not acted upon until Fire Debris and Hazard Trees cleanup is completed on the affected property and completion is confirmed to the County Building Official, either through the Alternative Program or the State Program. Notwithstanding the foregoing, a demolition or miscellaneous permit issued by the County Building Official may be required for Removal of Fire Debris and Hazard Trees for work involving the removal of buildings, structures, or portions thereof, as determined by the Director.
- D. Exigent Circumstances. The Board's intent is to facilitate an orderly remediation of large-scale disasters. Nothing in the deadlines as set forth by this Ordinance shall limit the authority of the County or any County official to abate hazards more quickly where required by exigent circumstances. Nothing in this Ordinance shall limit the authority of the County or any County official to take any enforcement action or pursue any available remedies, including, without limitation, requiring preventive measures as defined in Health and Safety Code section 101040.
- E. Nuisance Abatement.
- i. Civil Abatement. Any property deemed a public nuisance in accordance with this ordinance shall be subject to nuisance abatement, pursuant to [COUNTY CODE SECTION] and other applicable laws.
 - ii. Summary Abatement. In addition to any other nuisance abatement procedures provided by law, the Director and County Health Officer and their designee are authorized to enter onto any property deemed a public nuisance under this ordinance. If the County Health Officer finds that the property constitutes an immediate threat to public health or

safety, the Director may summarily abate the nuisance upon satisfaction of the summary abatement procedures set forth below, as applicable.

- a. Pre-Abatement Notice. Unless emergency conditions preclude doing so, the Director shall issue a summary Abatement Notice and Order with property owner(s) as listed on [the last equalized tax roll]. A summary of the Notice and Order shall be posted in a conspicuous location on the property to be abated at least [ten (10)] days prior to the summary abatement action.
- b. Appeal and Waiver. The property owner(s) or any person or entity having a legal interest in the property may submit a written appeal of the Director's Order to the Director or the Director's designee, by United States mail, overnight mail, or personal delivery, no later than [fifteen (15)] days from the date the Director mailed or delivered the Notice and Order. The written appeal shall state the basis for the appeal. The Director or the Director's designee shall review the appeal, if the appeal is timely, and shall issue a written decision no later than [ten (10)] days after receipt. The Director's or the designee's decision on the appeal shall uphold, rescind or modify the determination of the Notice and Order. The Director's or the designee's decision on the appeal shall be final. A copy of the Director's or the designee's determination shall be delivered, promptly upon its issuance, to the appellant by United states mail or personal delivery at the address listed on the last equalized tax roll or such other address provided by the appellant. Failure to appeal with in the time prescribed shall constitute a waiver of the right to contest the summary abatement.
- c. Post-Abatement Notice. After the summary abatement is completed, the Director shall promptly deliver to the property owner(s) a post-abatement notice indicating: (a) the action taken by the County; (b) the reasons for the actions; (c) the costs of the abatement and a request that the costs be paid by the property owner(s) to the County within [sixty (60)] days; and (d) that a lien will be recorded against the property if the property owner(s) fail(s) to pay the requested abatement costs within [sixty (60)] days. The post-abatement notice shall be delivered by Untied States mail or personal delivery.
- F. Judicial Enforcement Action. County Counsel is authorized to initiate judicial enforcement as to a violation of any provision of this Ordinance without further Board approval.
- G. Remedies Not Exclusive. The remedies identified in this ordinance are in addition to and do not supersede or limit any and all other remedies, civil or criminal, available at law or in equity.

Section 6. Environmental Determination

Adoption of this ordinance is exempt from the provisions of the California Environmental Quality Act ("CEQA") pursuant to California Public Resources Code section 21080(b)(3), which applies to projects undertaken, carried out by, or approved by a public agency to maintain, repair, restore, demolish, or replace property or facilities damaged or destroyed as a result of a disaster in a disaster-stricken area in which a state of emergency has been proclaimed by the Governor pursuant to the California Emergency Services Act, Government Code sections 8550 et seq., and Government Code section 21080(b)(4) regarding specific actions necessary to prevent or mitigate an emergency. These exemptions are also reflected in State CEQA Guidelines section 15269(a) and (c). The [NAME] Fire and their aftermath constitute a sudden unexpected occurrence, involving clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services under California Public Resources Code section 21060.3 and State CEQA Guidelines section 15359.

Section 7. Severability

If any provision of this Ordinance or the application thereof to any person, property, or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this Ordinance that can be given effect without the invalid provisions or application thereof, and to this end, the provisions of this interim Ordinance are hereby declared to be severable.

Section 8. Publication

A fair and accurate summary of this Ordinance shall be published once before the expiration of fifteen (15) days after said passage, with the names of the Supervisors voting for or against the same, in [ADD]. A certified copy of the full text of this Ordinance shall be posted in [ADD] along with the names of those Supervisors voting for and against the Ordinance.

The foregoing Urgency Ordinance was introduced, read and passed at a [regular] meeting of the [NAME] County Board of Supervisors, State of California, held on [DATE], by the following four-fifths vote:

MARIPOSA COUNTY BOARD OF SUPERVISORS

SUMMARY OF ORDINANCE NO. ____, AN INTERIM URGENCY ORDINANCE ESTABLISHING PROCEDURES AND REQUIREMENTS FOR FIRE DEBRIS AND HAZARD TREE REMOVAL FOR PROPERTIES IMPACTED BY THE OAK FIRE

Notice is hereby given that on Tuesday, August 30th, 2022, at a special meeting, the Mariposa County Board of Supervisors adopted Ordinance No. ____, an interim urgency ordinance establishing procedures and requirements for Fire Debris and Hazard Tree Removal for properties impacted by the Oak Fire:

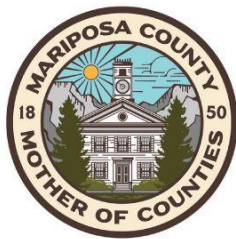
- Section 1:** Establishes findings and declarations supporting the need for the interim urgency ordinance based on identified public health, safety and welfare impacts resulting from the Oak Fire.
- Section 2:** Establishes definitions of terms used in the Interim Urgency Ordinance.
- Section 3:** Establishes that the Interim Urgency Ordinance shall be effective immediately.
- Section 4:** Prohibits removal of Fire Debris from private property until a hazardous materials inspection has been conducted.
- Section 5:** Establishes requirements for Removal of Fire Debris and Hazard Trees from Oak Fire impacted property by either a State Consolidated Program or an Alternative Program. All property owners of improved properties impacted by the Oak Fire must participate in one of the programs. Building permits to impacted properties cannot be issued until Fire Debris and Hazard Trees cleanup is completed. Establishes temporary Nuisance Abatement provisions for properties which are not cleaned up by either the Consolidated Program or the Alternative Program.
- Section 6:** Establishes exemption findings for adoption of the Interim Urgency Ordinance pursuant to the California Environmental Quality Act (CEQA).
- Section 7:** Establishes Severability provisions.
- Section 8:** Establishes that the urgency ordinance shall govern if there are conflicts with other county regulations.
- Section 9:** Establishes publication and posting provisions for Interim Urgency Ordinance action.

A certified copy of the full text of this ordinance is posted for public review in the Office of the Clerk of the Board of Supervisors at 5100 Bullion Street, Mariposa, California, and is available for public inspection and copying in that office in accordance with the California Public Records Act, Chapter 3.5 (commencing with Section 6250) of Division 7 of Title 1.

Voting on the Ordinance was as follows:

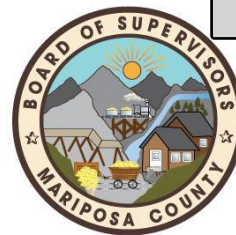
AYES:
NOES:
ABSENT:

DANIELLE BONDSHU
Clerk of the Board



MARIPOSA COUNTY

Administration • 966-3222



RESOLUTION - ACTION REQUESTED 2022-500

MEETING: August 30, 2022

TO: The Board of Supervisors

FROM: Dallin Kimble, County Administrative Officer

RE: Oak Fire Recovery Master Agreements

RECOMMENDATION AND JUSTIFICATION:

Approve a User Agreement with Tetra Tech, Inc., for Assessment and Monitoring Services Related to Disaster Debris Removal and Hazard Tree Removal (\$5,000,000); and Authorize the Board Chair to Sign the Agreement.

The California Office of Emergency Services (CalOES) has two master agreements related to disaster debris and hazard tree removal. Both agreements are necessary: one is for the debris and hazard tree removal itself and the other pertains to the necessary assessment and monitoring related to the removal of hazardous materials.

This user agreement is related to the assessment and monitoring for disaster debris and hazard tree removal. Pursuant to the master agreement negotiated by the State, the firm selected for this work is Tetra Tech, Inc. Tetra Tech performed similar work in Mariposa County following the Detwiler Fire and are familiar to our staff.

CalOES has verified that the County will be eligible for California Disaster Assistance Act (CDAA) funds that will pay for 75% of this cost. Staff has also indicated to CalOES that we will require 100% reimbursement, as was provided after the Detwiler Fire and in several other communities in recent years, in order to complete this project. Formal appeal of the reimbursement amount is concurrent and ongoing.

BACKGROUND AND HISTORY OF BOARD ACTIONS:

This process is significantly changed since the Detwiler Fire in 2017. At that time, CalOES contracted directly with Tetra Tech and handled the administrative aspects of debris cleanup. CalOES staff are embedded with County OES staff and guiding us through this process.

The Board has been generally supportive of disaster recovery efforts in the past.

ALTERNATIVES AND CONSEQUENCES OF NEGATIVE ACTION:

Do not approve. Debris cleanup efforts will be unable to proceed.

FINANCIAL IMPACT:

The not-to-exceed amount for this agreement is \$5,000,000. CalOES will cover 75% of this cost and the County will appeal for CalOES to cover 100% as was done during Detwiler and other incidents across the state.

ATTACHMENTS:

**User Agreement -- Mariposa County Compiled for TT_compressed (TT Signed)
(PDF)**

RESULT: ADOPTED [UNANIMOUS]

MOVER: Wayne Forsythe, District IV Supervisor

SECONDER: Marshall Long, District III Supervisor

AYES: Rosemarie Smallcombe, Marshall Long, Wayne Forsythe, Miles Menetrey

AGREEMENT FOR ASSESSMENT AND MONITORING SERVICES FOR DISASTER DEBRIS AND HAZARD TREE REMOVAL

THIS AGREEMENT (“Agreement”) is made and entered into this 30th day of August 2022, by and between the County of Mariposa, a political subdivision of the State of California, (“County”), and Tetra Tech, Inc. (“Contractor”), pursuant to the following terms and conditions.

W I T N E S S E T H:

1. TERM

The term of this Agreement shall commence on the date first hereinabove written and shall continue until all authorized work is approved by County or May 31st, 2023, whichever is earlier.

2. SERVICES

Contractor shall perform assessment and monitoring services for disaster debris and hazard tree removal as described in Exhibit A, “Scope of Work,” which is attached hereto and incorporated herein by reference. Contractor shall also comply with Exhibit A.1, “Special Provisions”, and Exhibit E, “Definitions” of Master Agreement 5-22-99-33-04, which are incorporated herein by reference. Further, Contractor’s services shall be in accordance with Exhibit F, “Request for Services” and Exhibit G, “Response to Request for Services”, both of which are attached hereto and incorporated herein by reference. Contractor shall provide all staffing and materials necessary to perform the Scope of Work.

3. COMPENSATION

Contractor shall be compensated for services performed in an amount not to exceed \$5,000,000.00 as set forth in Exhibit B, “Payment and Budget Provisions,” and Exhibit B.1, “Rate Sheet”, of Master Agreement 5-22-99-33-04, both of which are incorporated herein by reference. County shall pay Contractor within thirty (30) days of receipt of an approved invoice. In the event payments equal the “not to exceed” amount, Contractor shall complete all services required under this Agreement without further compensation or cost reimbursement.

4. INSURANCE

Contractor shall procure and maintain for the duration of this Agreement insurance as specified in Exhibit D, “Insurance Provisions”, which is attached hereto and incorporated herein by reference.

5. PUBLIC EMPLOYEES’ RETIREMENT SYSTEM (CALPERS)

In the event that Contractor or any employee, agent, or subcontractor of Contractor providing services under this Agreement is determined by a court of competent jurisdiction or the Public Employees Retirement System (CalPERS) to be eligible for enrollment in CalPERS as an

County of Mariposa
and Tetra Tech, Inc.

employee of County, Contractor shall indemnify, defend, and hold harmless County for the payment of any employee and/or employer contributions for CalPERS benefits on behalf of Contractor or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of County.

6. STATE AND FEDERAL TAXES

As Contractor is not County's employee, Contractor is responsible for paying all required state and federal taxes. In particular:

- a. County will not withhold FICA (Social Security) from Contractor's payments;
- b. County will not make state or federal unemployment insurance contributions on behalf of Contractor;
- c. County will not withhold state or federal income tax from payment to Contractor;
- d. County will not make disability insurance contributions on behalf of Contractor;
- e. County will not obtain workers' compensation insurance on behalf of Contractor.

7. NOTICE

Any and all notices, reports or other communications to be given to County or Contractor shall be given to the persons representing the respective parties at the following addresses:

CONTRACTOR:

Betty Kamara
Contracts Manager
(407) 803-2551

TDR.Contracts@TetraTech.com

COUNTY:

Dallin Kimble
County Administrative Officer
dkimble@mariposacounty.org
(209) 966-3222

County of Mariposa
5100 Bullion Street
Mariposa, CA 95338

8. PUBLIC RECORDS ACT

Contractor is aware that this Agreement and any documents provided to County may be subject to the California Public Records Act and may be disclosed to members of the public upon request. It is the responsibility of Contractor to clearly identify information in those documents that it considers to be confidential under the California Public Records Act. To the extent that County agrees with that designation, such information will be held in confidence whenever possible. All other information will be considered public.

9. ENTIRE AGREEMENT AND MODIFICATION

This Agreement contains the entire agreement of the parties relating to the subject matter of this Agreement and supersedes all prior agreements and representations with respect to the subject matter hereof. If there are exhibits attached hereto, and a conflict exists between the terms of this Agreement and any exhibit, the terms of this Agreement shall control.

10. TERMINATION AND RIGHTS UPON TERMINATION

A. This Agreement may be terminated upon mutual written consent of the parties, or as a remedy available at law or in equity. In the event of the termination of this Agreement, Contractor shall be entitled to compensation for services performed acceptably up to the effective date of termination as set forth in Exhibit B.

B. Either party may terminate this Agreement for convenience upon 30 calendar days' written notice to the other party. Upon termination for convenience, Contractor shall be entitled to compensation for services performed acceptably up to the effective date of termination, as set forth in Exhibit B.

C. Additional provisions regarding termination for clause are provided in Exhibit C, "General Terms and Conditions" of Master Agreement 5-22-99-33-04, which are incorporated herein by reference.

11. NO WAIVER

The failure to exercise any right to enforce any remedy contained in this Agreement shall not operate as to be construed to be a waiver or relinquishment of the exercise of such right or remedy, or of any other right or remedy herein contained.

12. DISPUTES

Should it become necessary for a party to this Agreement to bring an action in connection with this Agreement, the prevailing party in any such action shall be entitled to reimbursement for all expenses so incurred, including reasonable attorney's fees.

It is agreed by the parties hereto that unless otherwise expressly waived by them, any action brought to enforce any of the provisions hereof or for declaratory relief hereunder shall be filed and remain in a court of competent jurisdiction in the County of Mariposa, State of California.

Additional provisions regarding disputes are provided in Exhibit C, "General Terms and Conditions".

13. NUMBER AND GENDER

In this Agreement, the neutral gender includes the feminine and masculine, the singular includes the plural, and the word "person" includes corporations, partnerships, firms or associations, wherever the context so requires.

14. MANDATORY AND PERMISSIVE

"Shall" is mandatory. "May" is permissive.

15. SUCCESSORS AND ASSIGNS

All representations, covenants and warranties specifically set forth in this Agreement, by or on behalf of, or for the benefit of any or all of the parties hereto, shall be binding upon and inure to the benefit of such party, its successors and assigns. All successors due to assignments or mergers are not binding until an amendment is made to Master Agreement 5-22-99-33-04 to reflect the company name of the successor. Once such an amendment is executed, an amendment to this Agreement shall be executed to reflect the successor company name.

16. COUNTERPARTS/ELECTRONIC, FACSIMILE, AND PDF SIGNATURES

This agreement may be executed in any number of counterparts, each of which will be an original, but all of which together will constitute one instrument. Each Party of this agreement agrees to the use of electronic signatures, such as digital signatures that meet the requirements of the California Uniform Electronic Transactions Act ("CUETA"), Cal. Civ. Code §§ 1633.1 to 1633.17), for executing this Agreement. The parties further agree that the electronic signatures of the parties included in this Agreement are intended to authenticate this writing and to have the same force and effect as manual signatures. Electronic signature means an electronic sound, symbol, or process attached to or logically associated with an electronic record and executed or adopted by a person with the intent to sign the electronic record pursuant to the CUETA, as amended from time to time. The CUETA authorizes use of an electronic signature for transactions and contracts among parties in California, including a government agency. Digital signature means an electronic identifier, created by computer, intended by the party using it to have the same force and effect as the use of a manual signature, and shall be reasonably relied upon by the parties. For purposes of this section, a digital signature is a type of "electronic signature" as defined in subdivision (i) of Section 1633.2 of the Civil Code. Facsimile signatures or signatures transmitted via pdf document shall be treated as originals for all purposes.

17. OTHER DOCUMENTS

The parties agree that they shall cooperate in good faith to accomplish the object of this Agreement and, to that end, agree to execute and deliver such other and further instruments and documents as may be necessary and convenient to the fulfillment of these purposes.

18. AUTHORITY

Each party and each party's signatory warrant and represent that each has full authority and capacity to enter into this Agreement in accordance with all requirements of law. The parties also warrant that any signed amendment or modification to this Agreement shall comply with all requirements of law, including capacity and authority to amend or modify this Agreement.

19. NEGOTIATED AGREEMENT

This Agreement has been arrived at through negotiation between the parties. Neither party is to be deemed the party which prepared this Agreement within the meaning of California Civil Code section 1654. Each party represents and warrants that in executing this Agreement it does so with full knowledge of the rights and duties it may have with respect to the other party. Each party also warrants and represents that it has received independent legal advice from its attorney

with respect to the matters set forth in this Agreement and the rights and duties arising out of this Agreement, or that such party willingly foregoes any such consultation.

20. NO RELIANCE ON REPRESENTATIONS

Each party warrants and represents that it is not relying and has not relied upon any representation or statement made by the other party with respect to the facts involved or its rights or duties. Each party understands and agrees that the facts relevant, or believed to be relevant to this Agreement, have been independently verified. Each party further understands that it is responsible for verifying the representations of law or fact provided by the other

21. WARRANTY

County has relied upon the professional ability and training of Contractor as a material inducement to enter into this Agreement. Contractor hereby warrants that all work shall be performed in accordance with generally accepted professional practices and standards as well as the requirements of applicable federal, state and local laws, it being understood that acceptance of Contractor's work by County shall not operate as a waiver or release.

22. FUNDING AVAILABILITY

It is mutually agreed that if the County budget of the current fiscal year and/or any subsequent fiscal year covered under this Agreement does not appropriate sufficient funds for this Agreement, this Agreement shall terminate and be of no further force and effect upon the day notice is provided by County to Contractor of such event. Upon termination of this Agreement, County shall have no liability to pay any funds whatsoever to Contractor or to furnish any other considerations under this Agreement except for services rendered prior to such termination and Contractor shall not be obligated to perform any provisions of this Agreement. Contractor's assumption of risk of possible non-appropriation is part of the consideration for this Agreement. County budget decisions are subject to the discretion of the Board of Supervisors.

If funding for any fiscal year is reduced or deleted by the County budget for purposes of this Agreement, the County shall have the option to either cancel this Agreement with no liability occurring to the County, except County must reimburse Contractor for services rendered prior to such reduction or modification of the County budget, or offer an amendment to this Agreement to Contractor to reflect the reduced amount.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the day and year first written above.

COUNTY OF MARIPOSA

CONTRACTOR

Rosemarie Smallcombe, Chair
Board of Supervisors

Jonathan Burgiel, Vice President

County of Mariposa
and Tetra Tech, Inc.

COUNTERSIGNED:
(Government Code §25103)

APPROVED AS TO FORM:

Rene LaRoche
Clerk of the Board

Steven W. Dahlem
County Counsel

Attachment: User Agreement -- Mariposa County Compiled for TT_compressed (TT Signed) (RES-2022-500 : Oak Fire Recovery Master

EXHIBIT A
SCOPE OF WORK

Tetra Tech, Inc. (Contractor) agrees to provide Mariposa County (User Agency), with assessment and monitoring

The Project Coordinators during the term of this Agreement will be:

Mariposa County Contract Manager

Name: Dallin Kimble
Phone: (209) 966-3222
Email: dkimble@mariposacounty.org

Contractor

Name: Betty Kamara
Phone: (407) 803-2551
Email: TDR.Contracts@TetraTech.com

Direct all Agreement inquiries to:

Mariposa County Contract Analyst

To Be Determined

Contractor

To Be Determined

3. Work To Be Performed

The Contractor shall perform assessments, oversight, documentation, and reporting services of all Disaster Debris and Hazard Tree Removal performed by other contractors (hereafter referred to as DDHTR contractors) for all required parcel sites and hazard trees, in accordance with all Exhibits incorporated and made a part of this Agreement. Refer to Exhibit A.1 – Special Provisions for technical requirements.

ORDER OF OPERATIONS

Contractor shall follow the order of Operations as set forth in this Agreement and summarized below:

PLAN

- I. Develop a mobilization and demobilization plan for the operation in consultation with and at the direction of the User Agency.
- II. Receive Right-of-Entry (ROEs) permits from Counties for participating properties.
- III. Organize, manage, and maintain data collected for each ROE.
- IV. Track the Operational status of each parcel and road segment that is part of the Operation.
- V. Determine the division of Operational areas for the program.

- VI. Prepare periodic Incident Action Plans (IAPs), situational status reports, planning meeting agendas, and meeting notes.
- VII. Obtain and maintain daily Incident Command System (ICS) Activity Log (ICS 214) forms, or approved User Agency form, from all User Agency staff, Contractor staff (including any Subcontractors), and any supporting agencies' staff.
- VIII. Provide training, office and equipment space, health and safety planning, and vehicles and safety equipment, including required Personal Protective Equipment (PPE).
- IX. Provide temporary lodging. To assure that no disaster survivors are further displaced as a result of Contractor staff occupying hotels and short-term rentals, the Contractor may be directed by the User Agency not to house its staff, including subcontractors, in hotel rooms, motel rooms, or existing houses within a specified geographic area, generally within a certain distance from the incident location. Contractor may consider other lodging options, including, but not limited to, commuting, establishing a lodging base camp, using trailers, leasing dormitory space, and maximizing the hiring of local staff and subcontractors that will not require lodging. Contractor shall bear the cost of such lodging choice. Any temporary facility established by the Contractor must be approved in advance by the IMT and comply with all documentation, permitting, and environmental review requirements in the User Agreement. At the sole discretion of the User Agency, any lodging restriction instituted may later be reduced or lifted during the contract term if adequate hotel capacity is available.

ASSESS AND MONITOR

- I. Assess and document baseline conditions of debris routes.
- II. Review or assist in developing the project's Environmental Protection Plan (EPP), conduct desktop evaluations of enrolled parcels, and conduct field site assessments of project work areas, to determine the presence of and potential impacts to jurisdictional waterways, special status species and their habitats, and cultural, archaeological, or tribal resources, in accordance with the EPP. Conduct biological and archaeological monitoring of work if determined to be required.
- III. Implement environmental permit requirements.
- IV. Provide Biologists (including specialists), Registered Professional Foresters (RPFs), Arborists, Archaeologists, Certified Asbestos Consultants (CACs) or Certified Site Surveillance Technician (CSSTs).

- V. Prepare soil sampling plans, operationalize cleanup goals, and prepare community air monitoring plans, based on the User Agency's guidance and subject to the User Agency's approval.
- VI. Conduct California Department of Transportation (DOT) inspections on all DDHTR contractor trucks.
- VII. Conduct pre- and post-operation soil sampling and analysis on DDHTR contractor laydown/equipment yards and temporary debris management facilities (i.e., transfer stations).
- VIII. Assess parcels for debris and asbestos and, utilizing an Arborist or RPF, identify hazard trees that pose a threat to the public at large.
- IX. Monitor the DDHTR contractor's progress in the removal of debris (including asbestos) and hazard trees, and placement of erosion control materials.
- X. Verify property boundaries with property owners and/or the County as necessary and appropriate.
- XI. Collect post-debris removal soil sampling.
- XII. Issue tickets for work completed.
- XIII. Review and confirm DDHTR contractor invoices for accuracy and completeness.

REPORT

Prepare final activity and overall operation cost reports for each parcel or Right-of-Way (ROW) segment.

Prepare final activity and overall operation cost reports for the operation, and an after-action review report.

Submit Quarterly Progress Reports to Chief Accounting Officer or designee detailing deliverables milestones, current challenges and financial forecast.

Set up a detailed database collection and management system to enhance the contractor invoicing, invoice review process, and audit capabilities, at the User Agency Finance Unit Leader's direction with concurrence of the Chief Accounting Office or designee. The database shall include, at a minimum, invoiced and actual payment financial data by invoice number and parcel. If applicable, database shall be broken out by Federal Emergency Management Agency (FEMA), eligible, ineligible, and community costs by invoice number and payment amount as directed by the User Agency

Finance Unit Leader with concurrence of the Chief Accounting Officer or designee.

PROJECT-WIDE DOCUMENTATION

CRADLE TO GRAVE DOCUMENTATION

Project documentation shall be “cradle to grave” and reflect all work completed, on a per parcel basis. All Operation costs, including the costs of the DDHTR contractor, that can be directly attributed to an individual property shall be tracked by Contractor on a per Assessor's Parcel Number (APN) basis. These are designated as “individual property costs”.

Other costs that cannot be directly attributed to an individual property but are necessary as part of the success of the operation, such as community water tenders, street sweeping, air monitoring, operation management, community health and safety, or monitoring activities will be tracked as “Community Costs”.

Costs incurred relating to public properties, such as government buildings, certain schools, and institutions, must be tracked separately pursuant to written direction provided by the User Agency. In all cases, Contractor shall track and document costs with a sufficient level of detail, redundancy, and integrity necessary to meet the provisions of the User Agreement.

Contractor shall document the full life cycle of each parcel, in a method compliant with the terms and conditions of the User Agreement, from initial evaluation through site assessment, debris removal, hazard tree removal delivery of a clean, clear parcel, and transport and delivery of debris to end use facility. This shall include documentation of any parcel removed from the Program before all work is complete, in circumstances including, but not limited to, property owner withdrawal or property owner action rendering the property ineligible for the Program.

DATA RETENTION

Contractor shall retain all documents and data, including drafts, notes and summaries, for a period of seven (7) years from document creation, unless otherwise specified by the User Agency.

USER AGENCY ACCESS AND SYSTEM COMPATIBILITY

Upon request of User Agency, Contractor shall allow immediate access to any and all records, including notes, drafts, summaries and all documents required to be prepared and submitted.

All data systems utilized by the Contractor shall be made available to the User Agency and compatible with the User Agency's database software, Incident Management Team (IMT), and any additional County staff requiring access.

Access shall be granted to these systems prior to the commencement of any other activities.

TIMELINESS

Completed work shall be properly documented and uploaded into the required data collection systems as dictated by the User Agency, typically within twenty-four (24) hours unless otherwise specified.

OPERATIONAL, PUBLIC-FACING, AND COST RECOVERY NEEDS

OPERATIONAL

The data framework established by Contractor shall support the requirement of Operational, actionable, and real-time data by tracking all work performed by the County, Contractor, the DDHTR contractor, and other contractors in order to coordinate and schedule daily activities. Data may be collected automatically from the field through the Application Programming Interface (API) integration of software platforms (e.g., Field Maps, Survey 123, etc.) to the primary data repository (e.g., Esri products). Planning staff may also populate data collected on physical forms in the field and transfer that data into the data system. Planning staff shall have necessary, licensed accounts for applicable data repositories as mandated by User Agency.

Documentation of complete work shall be provided to support the requirement for public-facing data. Public-facing data must be available to the County for any public-facing maps/dashboard, at the request of the IMT, and available to both Contractor and User Agency call center staff.

COST RECOVERY

Contractor shall prepare and provide all documentation necessary for cost recovery of FEMA reimbursement, if applicable. Documentation required includes, but is not limited to:

Documentation of all work conducted on a property via assessment forms, sampling forms, sketches, photos, etc.

Documentation of all items that are removed from a property (may include types such as debris, including ash, trees, soil, vehicles, and concrete) to their facility via tickets, hauling logs, and Global Positioning System (GPS) documentation. Specific types of items to be documented shall be dictated by User Agency at the onset of the operation.

Documentation of staffing via Activity Log (ICS 214) form.

DATA COLLECTION TOOLS

Contractor's data collection systems shall be able to operate both in areas with cellular service available and in areas without cellular service. All data systems shall be compatible with existing Geographic Information System (GIS) systems, currently provided by Esri or similar products. If the User Agency deems it necessary, the Contractor data system shall be able to rapidly integrate with the User Agency data systems via API integration.

CALL CENTER OPERATIONS

Contractor shall establish and operate a call center for the purposes of providing information to disaster survivors enrolled in the Program. The call center shall make phone calls to survivors based on phone numbers listed in the Right of Entry Permits provided by the User Agency prior to the commencement of structural debris removal, hazard tree removal, any other operational action as specified by the User Agency. The contractor shall maintain detailed records of each phone call, advise the User Agency of any property owner it is not able to contact, and record any special requests or instructions provided by the property owner, which shall be transmitted to field operations personnel. If directed by the User Agency, contractor shall use alternate communication methods to reach survivors, including but not limited to email, and postage.

The call center shall also receive incoming calls from survivors or other interested parties, and shall provide information on parcel status, the debris removal program, and other subjects as identified by the User Agency. The contractor shall provide all necessary office space and equipment for the call center, unless otherwise directed by the User Agency. To the extent practicable, the contractor shall utilize a local area code for call center operations. The Contractor shall utilize the Office Accounting and Administrative Staff classification for call center staff and the Deputy Planning Section Chief classification for the call center supervisor, if the User Agency determines a call center supervisor is needed.

Contractor shall be prepared to provide effective call center service to all survivors, including those with access and functional needs. The contractor must be equipped to provide services in the below languages, and any other language identified by the User Agency:

- English
- Spanish
- Chinese (simplified and traditional)
- Mandarin
- Cantonese
- Vietnamese
- Korean
- Russian
- Arabic
- Tagalog
- Polish

French

Additionally, Contractor shall implement effective communication practices to serve survivors with disabilities, such as those who are deaf or hearing impaired, including using video remote interpreting (VRI), and/or a world language translation service.

INITIAL TASKS TO BE PERFORMED

Contractor shall complete the following tasks prior to the debris and hazard tree removal monitoring work:

STAFFING

Contractor shall deploy the following staff to the User Agency's designated incident field office within seventy-two (72) hours of receiving the notice to proceed (NTP): Incident Commander (IC), Planning Section Chief (PSC), Operations Section Chief (OSC), the Environmental Unit Manager/Senior Environmental Specialist and, if required by the User Agency, the lead RPF. Within the first week after the NTP is issued, the consultant shall send out the initial Site Assessment (SA) and Asbestos Assessment (AA) teams, the number of which is as specified by the User Agency in the table below. The deployment of additional and other staff will be as directed by the User Agency. All key staff supporting the Operation must be available during the IMT's working hours of 6:00 a.m. to 6:00 p.m. Pacific Time (PT) or as specified by the User Agency.

Personnel Designated	Post-Notice to Proceed Total Personnel*		
	3 Days	7 Days	10 Days
Incident Commander	1	1	1
Safety Officer	1	1	1
Planning Section Chief	1	1	1
Data Packet Manager	1	2	2
Operations Section Chief	1	1	1
Finance Section Chief	1	1	1
Environmental Unit Manager/Senior Environmental Specialist	1	1	1
Biologist	1	1	1
Archaeologist	1	1	1
Registered Professional Forester	1	1	1
Site Assessment Teams	1	3	5
Asbestos Assessment Teams	1	3	5
Background Soil Analysis Team	1	1	1

**Totals represent initial estimates for planning purposes, subject to change based on operational requirements.*

User Agency intends to use the position titles listed herein for this incident. However, in the event User Agency subsequently elects to use different titles, the use of different titles shall have no effect on the required qualifications or rates of the various Contractor staff.

TRAINING

Contractor shall provide and document the following training:

Accredited forty (40) hours of Hazardous Waste Operations and Emergency Response (HAZWOPER) training to Contractor's field staff (specifically staff that does or may enter disaster debris "hot zones"), including Task Force Leaders and all other personnel supporting structural debris removal operations in the field.

ICS-100 and ICS-200 training courses for all Contractor staff.

An operation specific training program, developed with the User Agency, detailing the Operational goals and the User Agency's expectations of how the operation will be managed and monitored by the Contractor staff, for all Contractor Operational staff.

A debris assessment team training, for all Contractor assessment staff.

An Arborist or RPF training, prepared and presented by the lead RPF, detailing the specific assessment methods to be used by all Arborists on the operation for consistency of assessment.

Hazard tree assessment strike team training, detailing how they will mark trees and document hazard tree assessments, and how they coordinate when conducting and documenting the Hazard Tree assessments.

International Society of Arboriculture (ISA) Tree Risk Assessment Qualification training for eligible personnel, if requested by the User Agency.

Any other necessary training as warranted for the specific operation, as directed by the User Agency.

PROVIDE TEMPORARY WATER TRUCK/DRIVER – DUST CONTROL

Within seven (7) days of receiving the NTP, Contractor shall secure a water source and provide water trucks for use throughout the Operational Area, as specified by the User Agency at the rates identified in Exhibit B.1 – Rate Sheet. Contractor's water trucks shall suppress dust from fire debris properties temporarily until the DDHTR contractor can mobilize water trucks to the Area.

The water trucks provided shall have a minimum five thousand (5,000) gallon capacity and include the water truck, driver, and all requirements for operations as identified in the User Agreement. The Contractor shall charge at the daily rate per truck per twelve (12) hour working day and includes water, fuel, hoses and fittings, and all items necessary to apply dust control water using truck mounted spray and manually applied dust control water as needed, and includes water truck mobilization and demobilization, the costs of permits, and use of agency meters.

TRUCK INSPECTIONS, TRAFFIC MANAGEMENT PLANS, AND ROAD ASSESSMENTS**a) DOT TRUCK INSPECTIONS**

Contractor shall provide a DOT commercial truck inspector with a two (2) person crew.

Contractor shall provide certifications and resumes indicating the crew's experience as truck inspectors to the User Agency for approval.

The inspectors shall have the necessary insurance, qualifications, and expertise to perform a Level One Inspection for all commercial trucks assigned to the operation.

Contractor shall provide as many such two (2) person crews as is determined by the User Agency to be necessary to confirm that all trucks pass safety inspections as required by the California Highway Patrol and applicable State and Local regulations.

Inspect all haul trucks, logging trucks, wood chip trucks, water tenders, tow trucks, street sweepers, low-beds, and other commercially licensed vehicles used on the project. Water trucks used specifically for on-site lots are not subject to inspection provided they are not carrying water loads on a public road; these water trucks are considered construction vehicles.

Contractor shall placard each and every truck that has passed inspection with a unique placard and bar-coded identification number.

Contractor shall re-inspect ten (10) percent of all previously certified trucks every thirty (30) days.

Contractor shall provide all inspection records, both pass and fail, to the IMT within twenty-four (24) hours of the inspection.

The DDHTR Contractor shall provide a location(s) for the DOT inspections to be conducted. Contractor shall coordinate closely with DDHTR contractor in order to conduct these inspections prior to deployment of each applicable vehicle the operation. All necessary facilities, including portable offices, restrooms, and shade shelters shall be provided by the DDHTR Contractor.

b) TRAFFIC MANAGEMENT PLANS

If directed by the User Agency, Contractor shall prepare a traffic management plan. The plan shall include an assessment of likely travel routes from the Operational area to the anticipated end use facilities, a summary of recent roadway traffic loadings on the anticipated routes, an assessment of the anticipated traffic impacts of the operation on those roadways, suggested

temporary striping or roadway improvements, and temporary signalization or signage improvements that could minimize or reduce traffic impacts. The contractor should charge the Civil Engineer position identified in Exhibit B.1 – Rate Sheet, to prepare these plans, which are subject to approval by the User Agency.

c) **EXISTING ROADWAY ASSESSMENTS & DOCUMENTATION**

Contractor shall conduct an initial visual and video survey of roadways and infrastructure along those roads that could potentially be impacted by the debris and hazard tree removal Operations. Video recordings shall be of sufficient quality to assist in the post-operation assessment of the impact of the operation on these roadways. As described in the Special Provisions, Contractor shall also prepare engineering reports of road conditions if requested to do so by the User Agency.

OFFICE AND LAYDOWN YARD IDENTIFICATION AND ASSESSMENTS

OFFICE AND STORAGE FACILITIES

Within seven days of receiving the NTP, Contractor shall secure local office and equipment storage space to be used to support the Contractor throughout the duration of the Operation. The facility(ies) shall provide the Contractor (and its Subcontractors) a place to manage its tasks separate from the User Agency's Operations Center. The facility(ies) shall also be used to provide storage of all field and monitoring equipment, support equipment, computers, tablets, PPE, and materials. This facility or other site shall be approved by the OSC as a suitable location for the Contractor to conduct required trainings and daily safety briefings. The User Agency may direct that certain Contractor personnel work from User Agency facilities and/or embed with User Agency staff to ensure close coordination. Costs for these facilities shall not be reimbursable separately, and the Contractor's Exhibit B.1 – Rate Sheet shall be inclusive of these costs.

OTHER FACILITIES

Contractor shall develop and implement a soil sampling plan for facilities provided by the DDHTR contractor, including equipment laydown yards, temporary wood processing and storage yards, debris management facilities, and any other DDHTR contractor selected and permitted facilities approved by the OSC in support of the Operation. These plans shall be reviewed by the OSC prior to implementation.

Once approved by the IMT, the Contractor shall execute the plans and establish baseline soil assessments for each facility. These samples shall be analyzed for California Code of Regulations (CCR) Title 22 metals, Total Recovered

Petroleum Hydrocarbons (TRPH), and benzene, toluene, ethylbenzene and xylene (BTEX) analysis by a California-certified laboratory.

Contractor shall collect and analyze additional soil samples upon demobilizing these facility sites to ensure no residual material or hydrocarbon spill was left behind. The DDHTR contractor shall be responsible for removing contaminated soils contributed by its operation in these staging areas, as verified by the Contractor, following appropriate predetermined soil sampling and analysis protocols.

Contractor shall also, if necessary and as directed by the User Agency, support the DDHTR contractor in obtaining all required local use permits for the development and operation of these facilities. Such permits may also require environmental evaluation requiring that the Contractor also conduct biological and archaeological assessments of proposed locations in accordance with the National Environmental Protection Act, the National Historic Preservation Act, California Environmental Quality Act (CEQA) and the Clean Water Act and report findings to the User Agency.

COMMUNITY AIR MONITORING PLAN

Prior to commencement of debris removal, Contractor shall prepare a draft community air monitoring plan for User Agency review and approval. The plan shall consider:

- a) Where the debris removal Operations will take place.
- b) Where the sensitive receptors are located that could be impacted by dust emissions from the operation.
- c) Inclusion of an air monitoring program to measure air emissions upstream and downstream of active debris removal Operations for a representative one-third of the active debris removal crews.

Upon User Agency approval, Contractor shall collect background air monitoring samples to establish baseline levels for air contaminants collected from community and highly sensitive receptor areas as determined by the OSC, or designee, and Contractor. The background, community, and debris removal property air monitoring will include particulate matter (PM 2.5), airborne metals, and asbestos.

Once debris removal commences, Contractor shall implement the Air Monitoring Plan and perform ongoing air monitoring in the community and at the selected debris removal property, as outlined in the OSC-approved Air Monitoring Plan. The Contractor's Air Monitoring Plan shall include conducting debris removal property air monitoring at a rate specified by the User Agency, typically one-third of the properties with active debris removal activities on a daily basis. Community and selected debris removal property air sampling shall take place during debris removal operation hours only.

BACKGROUND SOIL SAMPLING PLAN AND CLEANUP GOALS REPORT

Contractor shall identify regions with potentially differing soil types within the incident footprint. Soils in the vicinity but not in the ash impacted area shall be collected and sampled to establish the naturally or anthropogenic occurring metal concentrations around the Incident. These samples shall be analyzed for CCR Title 22 metals by a California Environmental Laboratory Accreditation Program. These samples shall also be analyzed for moisture content which the Contractor shall use to correct the metals concentration to determine dry metals concentrations from analytical results.

Contractor shall have a sufficient number of laboratories and Contractor staff available to support the number of air, soil, asbestos, and water samples anticipated throughout the operation to meet the required turn-around times. The turn-around time shall not exceed seven (7) calendar days unless otherwise specified by the User Agency.

Contractor shall:

- a) Utilize laboratories that are appropriately certified throughout the operation.
- b) Ensure that laboratories are geographically located to ensure reliable transportation of material samples.
- c) Verify that laboratories have sufficient testing capacity to meet the operation's needs.
- d) Ensure sufficient qualified staffing to review air, soil, asbestos, and water samples.

SIGNAGE

a) **PARCEL ADDRESS**

As part of the SA team activities (or by separate property scouting teams), Contractor shall install individual address signs for each property with a signed ROE. This new sign will assist in accountability and direct emergency services to the proper address. Contractor shall also Contact Underground Service Alert (USA) or other utility locator service to verify the location of the sign will not impact local utilities.

b) **TRUCK PLACARDS AND IDENTIFICATION NUMBERS**

Contractor shall provide the DDHTR contractor debris removal trucks a placard or other visible means of identification as part of the Operation. Contractor shall also place a bar-coded external sticker to each truck in an easily accessed location on the truck's exterior. The bar-coded sticker shall assist the

Contractor with identifying specific trucks as each truck enters and leaves a debris removal site and/or end use facility.

c) **CREW SIGNS**

Contractor shall verify and report that the DDHTR contractor provides crew number signs for their Debris Removal Crews and for their Hazard Tree Removal Crews that meets specifications.

END USE FACILITY ASSISTANCE

Contractor shall coordinate with the DDHTR contractor-selected debris and tree materials end use facilities for locations at those facilities at which Contractor staff can conduct their tracking and monitoring of DDHTR contractor truck disposal weights/volumes received, so that completion tickets can be issued.

BIOLOGICAL ASSESSMENT

a) **ENVIRONMENTAL PROTECTION PLAN**

If the User Agency prepares an Environmental Protection Plan or other similar document, all work under this section shall be conducted in compliance with the Environmental Protection Plan (EPP), including but not limited to any relevant Programmatic Biological Opinion, Federal Consultations, or other applicable requirements, as identified by the User Agency. If directed to so by the User Agency, the Contractor shall assist in developing the EPP in coordination with Federal, State and Regional resource agencies

b) **DESKTOP REVIEW**

Contractor shall procure and review relevant background information, such as the California Natural Diversity Database, to develop a baseline understanding of what biological resources, such as sensitive species, may be encountered on enrolled parcels and throughout the project area. The results of this review shall be documented in a summary report authored by a Qualified Biologist, which shall be amended as needed throughout the project if additional parcels are enrolled. The results of this review shall assist and inform the biological site assessments described below.

c) **BIOLOGICAL SITE ASSESSMENTS**

Contractor shall assign a two (2) person team to assess each enrolled parcel. The team shall include one (1) biologist or senior biologist and one (1) Task Force Leader who shall assist in preparing documentation. The team will conduct a visual assessment of the expected work area, including the structural debris field, areas proximate to the right-of-way where hazard trees may be removed from, access routes, expected parking areas, and expected water crossings. The biological site assessment shall determine:

If any specific biological concerns exist on the site;

If any BMPs listed in the EPP are applicable to the site;

If biological monitoring, as described in the EPP, is required during work.

These determinations shall be documented in a Biological Site Assessment Report, which shall identify the biologist who conducted the assessment and include any relevant photos. This report shall be made available to the User Agency within twenty-four (24) hours of completion of the site assessment in a User Agency-identified database system, and relevant information shall be uploaded to the designated information system within the same timeframe. Contractor shall ensure these biological site assessments are completed prior to structural debris removal or hazard tree removal operations on the subject parcel.

d) BIOLOGICAL MONITORING

If the Biological Site Assessment determines that onsite biological monitoring is required, in accordance with the EPP, for some or all of the work, the Contractor shall assign a biologist or senior biologist to monitor work completed by the DDHTR Contractor on the site. The biologist shall advise and instruct the DDHTR Contractor of any required BMPs and report any noncompliance to the IMT. The biologist shall prepare a Biological Monitoring Report which shall identify the biologist who conducted the monitoring and describe:

If all applicable BMPs identified in the Biological Site Assessment Report were properly implemented;

If any unexpected biological discoveries were made, and how they were managed;

If any impacts to biological resources were observed, and how they were mitigated, if applicable.

This report shall be prepared at the conclusion of work on the subject parcel, which shall be made available to the User Agency within completion of work.

ARCHAEOLOGICAL ASSESSMENTS

a) ENVIRONMENTAL PROTECTION PLAN

If the User Agency prepares an Environmental Protection Plan or other similar document, all work under this section shall be conducted in compliance with the Environmental Protection Plan (EPP), including but not limited to any relevant Programmatic Agreements, Federal Consultations, Tribal Consultations, or other applicable requirements, as identified by the User Agency. If an Archaeological Treatment Plan (ATP) is prepared for the project, Contractor shall also comply with all relevant requirements stipulated in the ATP. If directed to so by the User Agency, the Contractor shall assist in developing the EPP or other documents, such as the ATP, in coordination with Federal, State and Regional resource agencies.

b) DESKTOP REVIEW

Contractor shall procure and review relevant background information to develop a baseline understanding of what archaeological and cultural resources, such as historic properties or resources, may be encountered on enrolled parcels and throughout the project area. The results of this review shall be documented in a summary report authored by a Secretary of Interior Qualified Archaeologist, which shall be amended as needed throughout the project if additional parcels are enrolled. The results of this review shall assist and inform the archaeological site assessments described below.

c) **ARCHAEOLOGICAL SITE ASSESSMENTS**

Contractor shall assign a two (2) person team to assess each enrolled parcel. The team shall include one (1) archaeologist or senior archaeologist and one (1) Task Force Leader who shall assist in preparing documentation. The team will conduct a pedestrian survey of the expected work area, including the structural debris field, areas proximate to the right-of-way where hazard trees may be removed from, access routes, expected parking areas, and expected water crossings. The archaeological site assessment shall determine:

If any specific archaeological concerns exist on the site;

If any BMPs listed in the EPP are applicable to the site;

If archaeological monitoring is required during work.

These determinations shall be documented in an Archaeological Site Assessment Report, which shall identify the archaeologist who conducted the assessment and include any relevant photos. If the report contains legally confidential information, the report shall be marked "Confidential" and appropriately protected from disclosure. This report shall be made available to the User Agency within twenty-four (24) hours of completion of the site assessment in a User Agency-identified database system, and relevant information shall be uploaded to the designated information system within the same timeframe. Contractor shall ensure these archaeological site assessments are completed prior to structural debris removal or hazard tree removal operations on the subject parcel.

d) **ARCHAEOLOGICAL MONITORING**

If the Archaeological Site Assessment determines that onsite archaeological monitoring is required, in accordance with the EPP, for some or all of the work, the Contractor shall assign an archaeologist or senior archaeologist to monitor work completed by the DDHTR Contractor on the site. The archaeologist shall advise and instruct the DDHTR Contractor of any required BMPs and report any noncompliance to the IMT. The archaeologist shall prepare an Archaeologist Monitoring Report which shall identify the archaeologist who conducted the monitoring and describe:

- I. If all applicable BMPs identified in the Archaeological Site Assessment Report were properly implemented;

- II. If any unexpected archaeological discoveries were made, and how they were managed if applicable;
- III. If any impacts to archaeological resources were observed, and how they were mitigated, if applicable.

This report shall be prepared at the conclusion of work on the subject parcel, which shall be made available to the User Agency within completion of work.

DATA MANAGEMENT SYSTEM ESTABLISHMENT AND OPERATION

Contractor shall provide and perform the following information, data management services (GIS services), and tasks in support of User Agency planning, environmental, and Operational needs prior to the Operational startup:

ESTABLISH GIS AND DATA MANAGEMENT SYSTEM

Contractor shall establish a system to manage all Disaster Debris Operations data and Hazard Tree Removal Operations data, including all project related data requirements as specified by the IMT, with ESRI compatible software or as approved by the User Agency. The Contractor may be required to inventory, evaluate, and integrate GIS products or data from the User Agency or third parties. Contractor may be required to investigate the integrity of this data and identify and resolve any discrepancies, with input from the User Agency.

DEVELOP ROW MAP SEGMENTS

If directed by the User Agency, Contractor shall identify all public roads within the Operational area. The Contractor shall then divide the road network "Right of Way Segments" within the GIS system, for the purposes of managing hazard tree assessments of the right of way. Each Right of Way Segment should include one quarter centerline mile, unless otherwise specified by the User Agency. Certain segments may need to be shorter or longer in length, such as add the terminus of a road.

ADMS INTEGRATION

Ensure licensed Automated Data Monitoring System (ADMS) software and platforms integrate Operational, planning, and environmental needs information directly with data management system(s) as specified by the User Agency, such that the data recorded through ADMS software integrates with the Contractor's GIS database (e.g., trees plotted according to their coordinates, with all recorded information and photos included). Contractor's GIS responsibilities include the support, management and maintenance of other Agency databases as directed by the User Agency (e.g., Cal OES or DTSC). If required, Contractor shall prepare a GIS transition plan.

Investigate and highlight discrepancies between various agency datasets, including GIS errors and APN discrepancies to allow reconciliation of datasets.

If necessary, repair coding scripts in data management system(s) as specified by the User Agency.

Connect the User Agency's data management system(s) to the Contractor's ADMS, allowing for real time updating of the User Agency's data management system(s) and any Public Facing Map (PFM).

Update parcel status after ROEs have been received and entered into the ROE collection tool. Contractor shall regularly update tracking of individual APN's as each parcel progresses through Operational steps, including the cross referencing of the Debris Removal and Hazard Tree Removal Functions identified in this SOW.

DATA RETENTION

Contractor shall retain all documents and data, including drafts, notes and summaries, for a period of seven (7) years from document creation, unless otherwise specified by the User Agency.

USER AGENCY ACCESS AND SYSTEM COMPATIBILITY

Upon request of User Agency, Contractor shall allow immediate access to any and all records, including notes, drafts, summaries and all documents required to be prepared and submitted.

All data systems utilized by the Contractor shall be made available to the User Agency, IMT, and any additional County staff requiring access. Contractor's software shall be compatible with the User Agency's database software. Access shall be granted to these systems prior to the commencement of any other activities covered by this Agreement.

TIMELINESS

Completed work shall be properly documented and uploaded into the required data collection systems as dictated by the User Agency, typically within twenty-four (24) hours unless otherwise specified.

OPERATIONAL AND PUBLIC-FACING NEEDS

OPERATIONAL

The data framework established by Contractor shall support the requirement of Operational, actionable, and real-time data by tracking all work performed by the County, Contractor, the DDHTR contractor, and other contractors in order to coordinate and schedule daily activities. Data may be collected

automatically from the field through the Application Programming Interface (API) integration of software platforms (e.g., Survey123) to the primary data repository (e.g., Esri products). Planning staff may also populate data collected on physical forms in the field and transfer that data into the data system.

DOCUMENTATION

Documentation of complete work shall be provided to support the requirement for public-facing data. Public-facing data must be available to the County for any public-facing maps/dashboard, at the request of the IMT, and available to User Agency call center staff.

DATA COLLECTION TOOLS

Contractor's data collection systems shall be able to operate both in areas with cellular service available and in areas without cellular service. All data systems shall be compatible with and able to rapidly integrate with User Agency data system. If the User Agency deems it necessary, the Contractor data system shall be able to rapidly integrate with the User Agency data systems via API integration. Data collection tools for monitoring hazard tree removal Operations must have the ability to scan the barcodes affixed to hazard trees to ensure efficient data capture.

RIGHT-OF-ENTRY FORM COLLECTION AND TRACKING

The Contractor shall receive and process ROE forms as follows:

Mariposa County will receive and review ROE forms submitted by property owners that elect to have their properties cleaned up by the User Agency's disaster debris and hazard tree removal program. Those ROEs that meet with County requirements will be delivered to the IMT for inclusion in the Operation. Contractor shall incorporate IMT-approved ROEs in its GIS database system and verify street addresses and locations to ensure unique and verifiable parcels are not duplicative. If there are duplicates or APNs that cannot be located, Contractor shall coordinate with the IC and the County to rectify the situation. Contractor shall also set up a system to acknowledge the withdrawal of an ROE parcel owner from the program and note what stage of the operation at which that property left the program, and to track properties deemed ineligible and reason for the ineligibility.

Update parcel status after ROEs have been received and entered into the Contractor's data management system, and as each parcel progresses through Operational steps, including the cross referencing of the Debris Removal and Hazard Tree Removal Functions identified in this SOW.

Update parcel status after the completion of a Site Assessment and required EPP assessments (biological, archaeological) in preparation for Disaster Debris or Hazard Tree Removal.

Conduct and maintain an inventory of County provided surveys, dashboards, groups, and GIS layers.

Manage data access to ensure User Agency, Contractor, DDHTR contractors and Tribal staff have proper access. User Agency shall have full access to data throughout the operation.

Contact property owners to verify the ROE content.

HISTORICAL AND CULTURAL PRESERVATION MONITORING INITIAL TASKS

As specified by the User Agency, consistent with applicable law, prior to Operation startup, and under the direction of the Contractor's Lead Archaeologist, the Contractor shall facilitate historical and cultural preservation monitoring.

Contractor shall maintain confidentiality of Tribal resources upon request of Tribe(s) and shall perform the following tasks:

The Contractor will conduct a historical records search for native and non-native past findings within the operation covered burn scar(s) within the region and determine most likely areas within each burn scar that historical artifacts have been or may be found. As a result of good-faith and reasonable efforts to identify and protect cultural resources, Tribal Monitoring may be a possible mitigation outcome of the Section 106 consultation for the Private Property Debris Removal (PPDR) Operation within a region.

Based on the historical records search, Contractor shall provide the findings to the User Agency. If Tribal Monitoring services are needed, User Agency approval is required before the Contractor can proceed.

Set-up and convene an initial Tribal Consultation meeting with both federally and non-federally recognized Tribe(s) to provide an overview of Operations and ability to engage in mitigation, avoidance, minimization treatment measures to protect cultural and historical artifacts, which may include Tribal Monitoring.

Provide administrative, logistical and programmatic support staff for the User Agency's government-to-government consultations with federally and non-federally recognized Tribe(s). Consultations with individual Tribe(s) may be required as part of the government-to-government consultation process.

Draft scope of work (SOW) for mitigation, avoidance, and minimization treatment measures to protect cultural and historical artifacts, which may include Tribal Monitoring work, with the approval of the User Agency.

In cooperation with the Tribes that will be a part of this operation, develop and present a Tribal/cultural sensitivity training to all the Contractor's Operations staff, User Agency's staff, DDHTR contractor's staff, and other field support staff participating in this Operation.

DEVELOPMENT OF A HAZARD TREE ASSESSMENT METHODOLOGY

Within seven (7) days of receiving the NTP, the Contractor shall develop and present to the User Agency a technical methodology for identifying and assessing hazard trees. As described in the Exhibit A.1 – Special Provisions, Section 6.23, for the purposes of the Operation, hazard trees are trees that are so damaged by the declared incident that they pose an imminent or immediate threat of falling on public improved property or rights of way or pose a hazard to other targets as prescribed by the User Agency. The technical methodology shall describe how the Contractor's Arborists will determine which trees meet the User Agency's definition of a hazard tree and that the is a hazard as a result of the declared incident.

This technical methodology must be based on:

Established standards, academic papers, or guidance from the California Department of Forestry and Fire Protection (CAL FIRE) and the United States Forest Service, and/or other reputable sources;
Standards and guidance set forth in Federal Emergency Management Agency (FEMA) policy including:

The Public Assistance Program and Policy Guide, such as V3.1's (2018) page 49-50;

44 CFR section 206.224 (a)(1)-(4);

44 CFR section 206.221(c);

44 CFR sections 206.220 – 206.228.

Any other relevant Federal standards.

The methodology should describe the specific factors an Arborist will consider when assessing whether a tree poses a threat of falling on public rights of way or other improved property, for each species identified in the Operational area.

Upon approval by the User Agency, the methodology should be implemented within the Contractor's electronic assessment tool for field use by Arborists.

If the Contractor elects to utilize a technical methodology and electronic assessment tool developed by a third party, the Contractor must submit to the User Agency a proposal evidencing what reputable sources support the third party's methodology and tool. The User Agency may accept or reject the proposed methodology or may direct that changes be made to the methodology or tool.

Implementation of any User Agency-directed changes shall not be grounds for additional compensation.

DEBRIS REMOVAL FUNCTIONS

The following is a summary description of the tasks the Contractor shall perform in implementing the Debris Removal Operation. The actual interpretation in implementing the Operation is at the discretion of the IMT in accordance with the User Agreement, including Exhibit A.1 – Special Provisions. The User Agency will direct the Contractor when and where these services are necessary.

INDIVIDUAL PROPERTY SITE ASSESSMENTS, ASBESTOS ASSESSMENTS, AND ENVIRONMENTAL AND HISTORICAL ASSESSMENTS

Contractor shall perform assessments as specified below and in accordance with Exhibit A.1 – Special Provisions:

a) **SITE ASSESSMENTS**

If no address signs are present, Contractor shall install individual address signs for each property with a signed ROE. This new sign will assist in the accountability and direct emergency services to the proper address. Contractor shall also contact USA or other utility locator service to verify the location of the sign will not impact local utilities.

If properties in the Operational area are on septic systems, Contractor shall identify septic tank and leach field locations on each property.

Contractor shall identify water wells on properties not serviced by the local water agency.

Contractor shall photograph each site from all sides to document all aspects of the property both burned and non-burned items.

Contractor shall sketch property boundaries including ash/structure footprints and any debris fields, delineate locations of visible septic tanks, leach fields, water sources, and imminent threat hazards to the DDHTR contractor. Contractor shall describe the type of foundation(s) and sketch other hardscape and vehicles.

Contractor shall sketch and record ash footprints in addition to structures (e.g., vehicles, equipment, ATVs, trailers, recreational vehicles), creek beds, culverts, bridges).

Contractor shall identify and photograph other property-specific hazards (e.g., swimming pools, retaining walls, basements, chimneys, partial walls, hazardous trees, large vehicles, propane tanks).

Contractor shall also document any existing erosion control BMPs, such as wattles or compost socks and sediment collected on each property that may have or could catch structural ash and debris sediment.

Contractor shall conduct Mercury and Radiological site survey sweeps, using handheld equipment described in Exhibit A.1 – Special Provisions, Sections 5.7 and 5.8.

Identify and contact Owner of large partially damaged or undamaged propane tanks.

Contractor shall identify and document any household hazardous waste (HHW) that may remain on the property and notify the User Agency for need of its removal by others (such as DTSC).

If non-residential properties (i.e., commercial, industrial, public properties, etc.) are added to the Operation, Contractor shall provide the following services for each such property:

Evaluate the property based on zoning.

If the presence of hazardous materials is clearly a concern or unknown, conduct Envirostor search (DTSC website).

If the presence of hazardous materials is still unclear, solicit-historical parcel data from Environmental Data Resources, Inc. (EDR) or equal provider. Contractor shall review and assess the report and provide recommendations to the User Agency as to next steps to be taken. Contractor shall be eligible for reimbursement of EDR (or equal) report, and its review, as identified in Exhibit B.1 – Rate Sheet.

If the results indicate the possibility of hazardous materials, the Contractor shall prepare a soil sampling plan, similar to the one in the Special Provisions Section 7.1, analyzing for all appropriate constituents of concern for purposes of proper disposal of materials removed.

ROPE ACCESS PLAN PREPARATION AND TRAINING

The Rope Access Plan will be prepared for specific needs of specific properties. These operations typically require a unique plan for one or very few properties. If the plan for one property does not directly apply to another property, then a separate Rope Access Plan and required training may need to be prepared and implemented. It is unclear at this time the number of staff that will require such training. That will be determined on an as required basis, therefore for purposes of this MSA:

Up to ten (10) maximum employees will require training and gear.

Contractor shall determine, as part of its Rope Access Plan, whether a rescue team is required by reviewing applicable OSHA and Cal/OSHA regulations. Contractor is expected to provide a rescue team if one is required by regulation. User Agency may assist in coordinating with local government for a rescue team if applicable.

That two hundred fifty (250) foot ropes will be required.

Steep slopes may require the use of ropes and rappelling gear to assess and remove debris. If ropes are necessary for access, Contractor will submit a Rope Access Plan per Title 8, CCR, Section 3270.1, Use of Rope Access Equipment. Contractor shall establish, implement, and maintain a written Code of Safe Practices for rope access work. The written plan shall include, but not be limited to the following elements:

- i. Methods of rope access and anchorage used by the employer;
- ii. Employee selection criteria;
- iii. Equipment selection and inspection criteria;
- iv. Roles and responsibilities of rope access team members;
- v. Communication systems;
- vi. Employee training program;
- vii. Rescue and emergency protocol;
- viii. Identification of any unique site hazards that may affect the safety of employees using rope access methods;
- ix. Prevention of rolling debris;
- x. Structure and infrastructure protection.

This work plan, equipment, training, supplies, protection devices, any other material deemed necessary by the User Agency and the User Agency's Health and Safety Professional will be paid at the rate identified in Exhibit B.1 – Rate Sheet.

b) ASBESTOS ASSESSMENTS AND ABATEMENT

- I. Contractor shall coordinate with the OSC and PSC in obtaining National Emission Standards for Hazardous Pollutants (NESHAPs) authorization from delegated regional air quality management districts, or the California Air Resources Board (ARB), whichever applies, to prepare, submit, and gain agency permit approval prior to knocking down any chimneys or walls. As

part of the permit application, Contractor shall develop a submittal protocol for reporting properties requiring knocking down chimneys and/or partial walls.

- II. Contractor's Certified Asbestos Consultant (CAC) or Certified Site Surveillance Technician (CSST) shall conduct surveys to identify, sample, and analyze results for suspected gross asbestos containing materials, including concrete foundations and mortar. Asbestos sample analysis shall be completed within seven (7) working days unless otherwise specified or approved by User Agency. If necessary, the DDHTR contractor will be directed by the IMT to knock down Chimneys and/or partial walls for Contractor's CAC/CSST to safely assess and sample all of the ash and debris footprints for asbestos containing materials.
- III. Contractor shall notify the air agency, a minimum of 1 week prior to DDHTR contractor knocking down chimneys or partial walls as part of NESHAP notification, or as directed by the User Agency.
- IV. Contractor shall monitor and confirm the DDHTR contractor's removal of Asbestos Containing Materials (ACM) for those properties where asbestos is found or suspected, as identified by Contractor's CAC/CSST.
- V. Contractor shall document CAC clearance of abated parcels.

c) ENVIRONMENTAL ASSESSMENTS

- I. Contractor, through its Environmental Unit Manager/Senior Environmental Specialist or designee, shall confirm that the DDHTR contractor is properly installing the required environmental BMPs and AMMs, as well as removing BMPs and AMMs if required. If not, Contractor shall immediately instruct the DDHTR contractor to do so.
- II. Contractor's Environmental Unit Leader shall notify the Environmental Unit Manager/Senior Environmental Specialist, the OSC, and the PSC if there are any unforeseen issues or concerns that the DDHTR contractor is not following the EPP as required.
- III. Throughout the whole debris removal Operation, Contractor, utilizing US Fish and Wildlife Service (USFWS) Qualified Biologists shall assess, monitor, and document identified endangered species, nesting birds (during season), water quality permits, and stormwater. Contractor shall report daily and prepare summary reports prior to each IMT planning meeting.
- IV. All EHP data and documentation shall be uploaded to the DDHTR contractor database for planning section review within twenty-four (24) hours of work.

d) HISTORICAL PRESERVATION ASSESSMENTS

- I. Contractor shall provide monthly (or as otherwise specified) status reports to the User Agency containing actions completed for the preceding month, actions projected for the coming month, and any issues that must be addressed regarding Tribal Monitoring activities.
- II. Contractor shall develop contract(s) with the Tribe(s) to conduct Tribal Monitoring. Upon approval of the User Agency, Contractor shall enter into contract(s) with Tribe(s) to implement Tribal Monitoring Program(s), consistent with applicable law.

DEBRIS REMOVAL PHASES

a) **PREPARATION FOR DEBRIS REMOVAL**

After an APN's pre-operation assessments have been completed, the APN has been listed on the debris crew planning runway and listed on the IAP as needing property owner notification, Contractor shall initiate contact with property owners twenty-four to forty-eight (24-48) hours by phone and e-mail prior to planned commencement of debris removal or as otherwise specified by the User Agency. Contractor shall notify the property owners of the estimated commencement of debris removal. This notification shall be documented and placed on the tracking system.

b) **MONITORING**

During debris removal, Contractor shall monitor the DDHTR contractor's activities, including:

AIR MONITORING

Once debris removal commences, Contractor shall conduct ongoing air monitoring in the community and at selected debris removal properties, as outlined in the OSC-approved Air Monitoring Plan.

Contractor shall conduct debris removal property air monitoring on approximately 1/3 of the properties that are actively having debris removed on a daily basis.

Community and debris removal property air sampling shall take place during debris removal Operational hours only.

Contractor shall provide all air monitoring equipment to be used for community air monitoring per the requirements in Exhibit A.1 – Special Provisions.

Contractor's standard air monitoring stations shall perform real-time monitoring of airborne fine particulate matter concentrations (particulates

with an aerodynamic diameter of 2.5 µm, PM2.5) and air sampling for CAM-17 metals, excluding mercury and beryllium.

Contractor shall perform particulate monitoring and metals sampling at community locations during working hours for the duration of the Operation, or until such time the OSC determines that air monitoring may cease.

Contractor shall direct laboratory to run advance air sample analysis, including asbestos (NIOSH Method 7400 and NIOSH Method 7402), mercury, silica, and hexavalent chromium in air samples, as directed by the User Agency.

Air monitoring equipment will be paid at a daily rate as identified in Exhibit B.1 – Rate Sheet, that includes all items required for the complete placement, maintenance, repair, operation of the air monitoring equipment. The daily rate is to include the rental of the equipment, generator, all laboratory costs, and fuel. These laboratory costs include PM10 and PM2.5 and CAM 17 heavy metals analyses (minus Mercury and Silica) on air monitoring sample particulates, if the particulate level warrants the analyses.

TRIBAL MONITORING

Contractor shall:

In cooperation with the Tribes that will be a part of this operation, develop and present a tribal/cultural sensitivity training to all the Contractor's Operations staff, User Agency's staff, DDHTR contractor's staff, and other field support staff participating in this Operation.

Draft scope of work for mitigation, avoidance, and minimization treatment measures to protect cultural and historical artifacts, which may include Tribal Monitoring work, with the approval of the User Agency.

Coordinate with Tribe(s), under contract, to conduct daily Tribal Monitoring activities in accordance with the Incident Action Plan (IAP), to be issued twice a week or as specified by the User Agency. Provide logistical and programmatic support for the User Agency's government-to-government consultations with federally and non-federally recognized Tribe(s). Consultations with individual Tribe(s) may be required as part of the government-to-government consultation process.

If requested by the User Agency, Contractor shall coordinate a kickoff meeting via phone or in-person to discuss Tribal Monitoring compliance requirements. If an in-person meeting is required, the User Agency will determine the location. The User Agency will identify the parties or individuals that need to be included in the kickoff meeting. The parties or

individuals may include the Tribe(s), the California Governor's Office of Emergency Services (Cal OES), FEMA, the User Agency and other parties as specified by the User Agency.

Provide bi-weekly or as specified by the User Agency, monitoring summary reports to ensure Tribal Monitoring requirements are fulfilled.

Review Tribe's daily Activity Log (ICS 214) form or approved User Agency form that documents the properties monitored and hours worked that day.

Direct each Tribe to prepare a draft monitoring post-implementation summary report to be reviewed and finalized by the Lead Archeologist. Each Tribe's report shall supplement the Contractor's Monitoring Summary Report.

Contractor shall prepare a Monitoring Post Implementation Summary Report to be submitted to the User Agency as a supplemental document to the State Historic Preservation Officer at the conclusion of the Operations. The monitoring report shall include:

- Summary of monitoring activities performed in the field.

- Summary of observed impacts to sites of cultural or religious significance to Tribe(s).

- Summary of mitigation, avoidance, minimization treatment measures applied.

- Summary of protocols followed during field Operations.

Document agreed-upon labor rates (established through government-to-government consultations outside of the MSA) and other Tribal subcontract terms with each Tribe that will be participating as Tribal Monitors in the Operational area.

Contractor shall not offer Tribal Monitoring Services under this MSA for User Agencies unable to accept the compensation model as described in Exhibit B.1 – Rate Sheet. User Agencies reserve the right to contract directly with Tribes for Tribal Monitoring services at any time during the term of MSA.

DEBRIS REMOVAL MONITORING

Contractor, through its TFLs, shall monitor debris removal in accordance with Exhibit A.1 – Special Provisions, and as follows:

1. For each APN at which the TFL is providing monitoring services, the TFL shall have all documentation collected for the APN (including ROE, Site Assessment, other homeowner requests etc.) as hard copies or downloaded pdfs on a tablet or phone that are readable and usable.
2. Along with the TFL and DDHTR contractor's Crew Lead, the TFL shall review the property owner's ROE comments and requests, verify the extent of the property, review the SA Report, and point out locations of items to protect or stay away from (e.g., septic tanks, leach fields, water wells, drop offs, etc.) or that the property owner chooses to keep.
3. Conduct a comprehensive site walk of the full work area ("360 Degree Site Walk") with the those present for the document review in "b" above. Confirm that DDHTR contractor's Crew Lead is aware of all marked septic systems and leach fields, is aware and will comply with requests from the Property Owner, and all other relevant details prior to commencing Operations.
4. The TFL shall also indicate to the DDHTR contractor any existing erosion control BMPs, such as wattles or compost socks and sediment collected to be removed with ash and debris loads, as they are presumed to have captured fire debris runoff from the structural debris footprint.
5. The TFL shall determine with the DDHTR contractor Crew Lead how the site debris will be cleared, order of debris piles, and where the operator intends to load the trucks. They will also agree upon the location(s) of the Exclusion Zone(s). The DDHTR contractor will be responsible for staking and taping off these areas.
6. The TFL shall document every truck that enters and exits the APN with a load of debris materials, note the type of debris (i.e., danger trees, ash and debris, metals, vehicles, concrete, contaminated soil, etc.), the truck identification number, and the time that the truck leaves for the disposal site or end use facility.
7. Contractor shall document any vehicle that is removed from an APN, whether taken directly to an end use facility or to an independent location set up by the DDHTR contractor specifically for the State or Local Government to safely verify VINs for vehicles included in the Operation.
8. Contractor shall provide TFLs to track vehicles taken to and from this VIN identification processing facility in "7." above.
9. Contractor shall check that the DDHTR contractor has removed approximately six (6) inches of soil from below each and every debris pile on the property.

10. Contractor shall verify that the DDHTR contractor crew has removed any previously placed stormwater BMPs, whether placed by the DDHTR contractor or others, and any structural debris sediment trapped upstream of them.
11. Once the DDHTR contractor Crew Lead has indicated that the debris has been sufficiently removed from the APN, the Contractor TFL shall alert the Contractor's Division Supervisor (DS) and the User Agency's OSC or designee with at least two (2) hours or more of lead time that they may be needed for an intermediate site walk.
12. The TFL, together with the DDHTR contractor's crew laborers, shall conduct a site walk to make sure there are no remaining nails, glass shards, or other debris remaining within the former structural debris ash footprint. Contractor shall confirm that, visually, all debris has been removed from the site and is ready for confirmation soil sampling.
13. If applicable, Contractor shall verify that the DDHTR contractor has identified any on-site trip and fall hazards and marked them with a brightly covered spray paint, impalement hazards are capped or cut to grade, and that temporary hazard fencing is installed around any fall hazards or holes.
14. The Contractor's DS (or designee) and the User Agency OSC (or designee) shall conduct the intermediate site walk to confirm that the site is sufficiently cleaned of debris and should be cleared for soil sampling. Then the DDHTR contractor's crew can be directed to mobilize to the next assigned site on the PSC's runway.
15. Contractor shall provide TFLs at all of the DDHTR contractor's designated disposal sites and end use/recycling facilities to document DDHTR contractor trucks by scanning their bar-codes. Contractor shall document arrival times, weights or load volumes, and, if possible, the time each truck leaves the facility.
16. TFLs shall issue a ticket for each DDHTR contractor's truck entering one of these facilities.

17. **DAMAGE CLAIMS**

The TFL shall document any property damage occurring during the Operation, whether witnessed by the TFL or brought to the TFLs attention. Documentation shall include a written description of what happened, a description of the damage, who was present, date and time, witnesses (and contact information), photographs of the damage, and any other relevant information. This includes any damage, whether accidental, negligent, or intentional, including, but not limited to, damage to environmental BMPs, private property

(whether in or out of the Program), roadways, or bridges, that has occurred on-site or due to the DDHTR contractor's Operations or other source. Any such damages shall be reported to the Contractor's DS and to the User Agency, following the User Agency's damage claim protocols. The User Agency may direct that specific forms, such as Incident Report Forms, are utilized for the completion of this task.

After User Agency and IMT review of the documentation, the User Agency and IMT will make a decision regarding the validity of the damage claim and who, if anyone, will be responsible for repairing the reported damage. The DDHTR contractor and/or the Contractor may be liable to repair such damages as directed by the IMT.

c) SOIL SAMPLING AND RESCRAPE

Upon satisfactory completion and approval of the Interim Site Walk inspection by the User Agency OSC, Contractor shall perform soil sampling at each property. Contractor shall:

Sample and analyze soil, as described in the User Agency-approved Contractor Soil Sampling Plan.

Samples must be collected within five (5) working days of the DDHTR contractor completion debris removal, unless otherwise directed or approved by the User Agency.

Compare soil results to cleanup goals, developed in the Soil Sampling Plan. Contractor must ensure the laboratory turnaround time for soil confirmation samples does not exceed seven (7) working days from time of sample collection, unless otherwise directed or approved by the User Agency.

If results exceed cleanup goals, another layer of soil will be removed from the specific area that exceeded these goals (by the DDHTR contractor, while monitored by a Contractor TFL), as directed by the OSC or designee. The decision unit(s) (DUs) will then be re-sampled under the direction of the User Agency.

If the User Agency determines that there is an indication of higher background concentrations of local metals, the Contractor shall collect soil borings outside of the debris footprint but in proximity to the DUs in question, at the direction and discretion of the User Agency.

If the User Agency determines that contamination on the property results from a source other than the structural fire, the property may be returned to the County without meeting the Operational Cleanup Goals, at the discretion of the User Agency.

Once the samples pass the cleanup goals or site-specific goals, at the direction of the User Agency, Contractor shall document that the APN is ready for the DDHTR contractor to place erosion control.

As necessary, when determined by the Contractor and approved by the User Agency, the Contractor shall provide and operate X-Ray Fluorescence (XRF) and or soil boring equipment to assist in assessing if the property has been sufficiently cleaned, prior to sending samples to the laboratory. Contractor shall be eligible for reimbursement as identified in Exhibit B.1 – Rate Sheet.

d) EROSION CONTROL

Contractor shall notify the DDHTR contractor within twenty-four (24) hours when APNs are approved for erosion control to be implemented.

Contractor's Water Quality Environmental Unit Leader will direct the TFLs to oversee and inspect, direct, and document the DDHTR contractor's erosion control crew during erosion control installation on each APN.

e) FINAL SITE WALK

Contractor shall prepare a final site walk checklist/report for the User Agency to review and use for conducting final sign-off inspections and reporting.

Following placement of erosion control, the User Agency or designees will conduct final site walks of each APN. The site walk will consist of a review of the ROE, SA Report, debris removal information, and other relevant information, and a site visit to verify all work has been completed to the specifications outlined in this Agreement and Exhibit A.1 – Special Provisions.

If the User Agency is not satisfied that the APN is ready to return to the County, Contractor shall notify the DDHTR contractor of the deficiencies.

Once the deficiencies are addressed by the DDHTR contractor (under the monitoring of a Contractor TFL), Contractor shall notify the User Agency that a subsequent site walk can be conducted.

Upon conclusion of a satisfactory site walk, the User Agency will note any significant findings and provide a signature. Contractor shall then submit each final sign-off report to the County for the County representative's signature.

Should User Agency determine that the cleanup is not complete, the Contractor shall notify the DDHTR contractor and provide supporting

documentation of findings and further direction within twenty-four (24) hours of completed site walk.

Contractor shall place a copy of the fully executed document in the Operation's document files.

f) SPECIAL CONSIDERATIONS

COMMERCIAL, INDUSTRIAL, PUBLIC, OR OTHER PARCEL TYPE ASSESSMENTS

If commercial properties are added to the Program, Contractor shall provide the following services for each commercial property:

1. Evaluate the property based on zoning, what kind of use it had prior to the fire, and aerial photos, to determine if it is likely to have stored hazardous materials.
2. If the presence of hazardous materials is clearly a concern or unknown, conduct an Environmental Assessment by checking the property against Envirostor (DTSC website) to determine if it is known to be a contaminated site.
3. If the presence of hazardous materials is still unclear, Contractor shall conduct a commercial property ESA prior to conducting an individual parcel SA by soliciting historical parcel data from EDR.
4. If the results indicate the possibility that hazardous materials were used and/or stored on the property, Contractor shall prepare a soil sampling plan, similar to the one in the Special Provisions Section 7.1. Contractor should be prepared to provide all services described herein on commercial, industrial, public, or other properties where materials have been designated as hazardous waste. Contractor shall provide all appropriate monitoring and screening services, PPE, laboratory analysis necessary to complete debris removal operations on sites where materials have been designated as hazardous waste in full compliance with all applicable laws and regulations. The analysis shall include:
 - i. CAM 17 Metals
 - ii. Mercury
 - iii. DRO/MRO (diesel and motor oil range organics)
 - iv. GRO (gasoline range organics)
 - v. EPA Method 8260D (SW-846)
 - vi. SVOCs

- vii. PCBs
- viii. Pesticides
- ix. Herbicides
- x. Dioxins (as necessary)
- xi. TCLP/WET (as necessary)

ABATEMENTS

Contractor shall provide assessment and monitoring for properties entering the Program through a local abatement process. Abatement properties will require the same set of tasks as required for properties for which ROEs have been submitted, under substantially shorter timeframes. The process, including SAs, AAs and removal, debris removal, soil sampling and analysis, and erosion control placement may be required to be conducted within two (2) weeks. Contractor shall expedite all aspects of the operation, as directed by the User Agency, to complete the property in the timeframe reflected on the abatement warrant.

CHANGE ORDERS

No change orders outside the scope of services in the MSA will be allowed.

HAZARD TREE REMOVAL FUNCTIONS

The Hazard Tree Removal Functions shall be conducted when there is no ash and debris in the area within which trees could be felled. The Hazard Tree Removal Functions are likely to follow the Disaster Debris Removal functions in most circumstances. The debris removal crews and hazard tree removal crews should not impede each other's efficient Operations.

Contractor shall provide IMT staff and equipment required to support the IMT in implementing Exhibit A.1 – Special Provisions, at the discretion of the User Agency, as follows:

INITIAL HAZARD TREE REMOVAL OPERATION TRAINING

Contractor shall develop a training program for operation specific requirements. Contractor shall certify that all Contractor RPFs and Arborists are trained to identify eligible hazard trees for the Operation, prior to being sent out for any field work.

In support of Operational specific activities identified in the field, Contractor shall provide additional services, which may include, but are not limited to, providing a trainer and training for Arborist TRAQ Certification.

HAZARD TREE ASSESSMENTS

Contractor shall perform hazard tree assessment on individual properties and county road right-of-way segments. The following tasks may be completed concurrently with Disaster Debris Removal SA tasks. However, hazard tree assessments shall be conducted to not interfere with the DDHTR contractors. Contractor's Arborists, if not HAZWOPER trained, cannot access hazard trees through debris fields.

Contractor's RPFs and Arborists shall delineate those trees that are determined to be hazard trees and mark those hazard trees in a manner directed by the User Agency on each property or segment of ROW.

Under no circumstances shall Contractor mark a tree for removal that does not meet the User Agency's definition of hazard tree unless otherwise directed and approved by the User Agency. Contractor shall be responsible for any fines or penalties incurred by the User Agency for removal of improperly marked trees, in addition to any other remedy pursuant to this User Agreement.

At least one Contractor TFL shall be paired with each Contractor Arborist on each property. Together, they will be called a Strike Team.

As part of the Strike Team, the Contractor TFL shall:

Review the ROE and/or ROW documentation for the property before any DDHTR contractor staff enter the property. The TFL shall communicate any hazards, unusual conditions, or other relevant information reported on the ROE/ROW to any other staff entering the property.

Confirm that each property, upon arrival, has an address sign installed.

If no address sign is installed, the TFL will install such a sign prior to proceeding onto the property.

Observe any overhead utilities and record in the TFL's documentation. This documentation shall be included in the database pursuant to GIS Management Services, Section 5.B.11 above, with all other property specific information.

Identify and document other property-specific hazards (e.g., animals, swimming pools, steep hillsides, large vehicles).

As part of the Strike Team, the Contractor Arborist shall mark and document all hazard trees with a User Agency approved Esri-compatible data collection software. The User Agency approved Esri-compatible data collection software shall be accessible and viewable by the User Agency at all times during the operation.

Data collected shall include:

Unique identification numbers for all trees.

The number of trees (on the parcel or county road segment) on a SA map.

Each tree's species (as determined by the Arborist).

Tree height.

Tree diameter (at 4.5 feet above ground level).

The relative height of the tree measured by hypsometer or measuring tape and a clinometer or equal industry standard method.

Tree GPS coordinates.

Distance of tree to eligible target measured by hypsometer or measuring tape.

Photographs of each tree before removal showing all of the following unless directed and approved by the User Agency:

- i. The unique identification number on the tree trunk prior to felling.
- ii. The diameter on the measuring tape.
- iii. The tree standing and in context (photo should be taken from sufficient distance away from the tree to show the tree alongside the rest of the parcel).
- iv. The threatened public improved property or right of way from the perspective of the hazard tree.

Contractor shall place all data and photographs collected (including the map prepared in "f" below) in a database folder for each property by APN and available to the IMT electronically in the GIS management services database (refer to Section 5.B.11 above). Information shall be uploaded to the Contractor's database and accessible by the User Agency and IMT within twenty-four (24) hours of the day the tree was assessed.

Contractor shall mark each hazard tree in accordance with the specifications provided below, unless otherwise directed by the User Agency:

Three blue dots shall be painted with marking paint on the bole of tree at breast height, in a manner such that the dots will be visible from multiple angles.

A metal tag or abrasion resistant hard plastic tag marked with both the Unique ID number of the hazard tree and a barcode connected to the

Unique ID number should be affixed with a nail to the tree below the cut line (less than six (6) inches from the ground). The tag should be circled with blue marking paint to ensure it is noticeable.

The Contractor may propose alternative marking specifications if the alternative marking specifications will provide significant efficiencies.

Contractor shall create a map showing the location of the trees included on the property or ROW. This survey map shall include a tree represented as a circle and tagged with a tree identification number. As necessary, Contractor shall utilize Licensed Land Surveyor(s) (with all required survey equipment) as part of a two (2) person survey team(s) to delineate hazard tree locations with respect to property lines.

When necessary, the Strike Team shall:

Mark approximate property boundaries if access to hazard trees that are marked to be cut may require access across such a boundary or if the trees may fall across such boundaries after being felled. Mark this possibility on the site map.

Unless otherwise specified by the User Agency, Arborists shall maintain a production rate of fifty (50) hazard tree assessments per Arborist per workday. Contractor shall maintain this production rate unless otherwise approved and directed by the User Agency.

MONITORING AND OVERSIGHT OF FELLING AND REMOVAL OF HAZARD TREES

- a) The TFL shall document in the GIS data management system all hazard trees felled, to include the following items:
 - I. Photograph of each tree immediately prior to, but no more than twenty-four (24) hours prior to, felling. This photograph must show that the tree is standing and has not been felled by others.
 - II. Photograph of the stump after felling showing the identification number on the remaining stump.
 - III. Date of felling.
 - IV. Truck number on which each tree was placed and transported to the log storage and processing yard or end use facility.
 - V. Other documentation as specified by User Agency and IMT.

- VI. All Data collected on each felled tree, and listed above, must be uploaded to the Contractor's database and accessible by the User Agency and the IMT within twenty-four (24) hours of the day the tree was felled.
- VII. To ensure efficient hazard tree removal operations, Contractor's data collection system must allow TFLs to scan barcodes affixed to hazard trees when collecting data prior to or after hazard tree felling/removal. Processes that rely on manual entry are not permitted.
- b) Contractor shall also document the removal of any incidental tree (a non-hazard tree that must be removed to safely fell and remove a marked hazard tree) as approved by the User Agency, including identification of personnel responsible for the approval.
- c) Once the marked trees are felled, limbs and tops processed as necessary, and either chipped and left for erosion control or otherwise removed from each property, the TFL shall document, and ensure tree stumps are marked with the same unique identification number (prior to felling), take a photo of the stump, with the UIN visible and record the GPS coordinates of the stump location. This information shall be logged into the Contractor database, undergo a thorough quality control check, and be accessible by the IMT by the next day.
- d) Contractor shall inspect each DDHTR contractor truck supporting work on each property or segment of ROW to ensure that each has a safety check placard, issued by the Contractor's DOT commercial truck inspector teams.
- e) Contractor shall monitor the tree removal crew's activities for compliance with any health and safety or environmental controls and/or activities (i.e., controlling dust, traffic control, water run-off of burn ash, etc.) which should be addressed during the hazard tree felling, processing, removal, and transport Operations. Upon determination of a safety or environmental violation, the Contractor shall direct crew to stop work immediately and report to the User Agency. If hazard tree removal Operations are being conducted prior to structural debris removal or the completion of the soil confirmation process, Contractor will advise the DDHTR contractor's hazard tree removal personnel and equipment on how to avoid disturbance to structural debris footprints. The Contractor will report any disturbance to structural debris removal footprints to the OSC.
- f) Contractor shall monitor and advise the DDHTR contractor about minimizing the release of dust and sawdust from their work Contractor shall verify installed, on-property storm water BMPs, such as chipped slash, wattles, erosion control mats (for steeper slopes), and compost socks installed to prevent off-site migration of waste into municipal drainage system inlets or nearby waterways. If there are any existing stormwater BMPs (such as wattles, compost socks, hay bales, erosion control matting or other such BMP) on the property, ensure that they are not disturbed by the Tree Removal Operation.

- g) After tree felling and removal, Contractor shall document and ensure the DDHTR contractor's installation of new stormwater BMPs necessary to meet Operational permits enforced by California Department of Forestry and Fire Protection (CAL FIRE) and operationally required BMPs to minimize both soil erosion and generated sawdust from being carried down to local waterways and streambeds.
- h) Contractor shall confirm that environmental and/or archaeological BMPs or AMMs required are in place and noted to the DDHTR contractor prior to commencing Tree Removal Operations. The DDHTR contractor will not be allowed to work on any property that is not appropriately protected per the Operational permits enforced by CAL FIRE. If the necessary measures are not in place, the Contractor shall direct the crew to stop work immediately and report to the OSC.
- i) Contractor shall complete and submit daily activity logs per property documenting Contractor and DDHTR contractor field labor staff and hours, equipment used, trucks that hauled materials from the property, and log storage and processing yards or timber end use locations.
- j) Contractor shall inspect traffic control devices and procedures for compliance with the operation-specific traffic control plan.
- k) Contractor shall obtain site completion approval from OSC once all designated hazard trees have been removed from the property to allow for a final walk through by the OSC or designee.

MONITORING AND OVERSIGHT RELATING TO HAULING, PROCESSING, AND END USE OF HAZARD TREES

Contractor shall perform the following monitoring and oversight tasks related to the hauling, processing, and end use of hazard trees:

Document instances where the User Agency has directed DDHTR contractor to leave felled trees in place.

Track each truck and weigh-in the tonnage of vegetative debris entering and leaving the log storage and processing yards.

Track each truck and weigh-in the tonnage of vegetative debris entering end use facilities.

Track each tree log that is brought to an end use facility.

Photograph each truck, including identifying information and load contents, delivering vegetative debris and/or wood materials to each end use facility.

Verify and document: 1) source of wood materials (i.e., ROWs or private properties) that are in the truck payloads, 2) quantity of materials delivered by each truck, 3) safety and inspection stickers on the transportation trucks.

Weigh and document truck weights or trucks taken from the tree removal locations directly to end use facilities with temporary scales provided by the DDHTR contractor.

OVERALL PROJECT-WIDE DATA MANAGEMENT REQUIREMENTS

Contractor shall provide and perform the following information and data management services and tasks in support of User Agency planning, environmental, and Operational needs:

1) GIS SERVICES

GIS and Data Management: Manage all Disaster Debris Operations data and Hazard Tree Removal Operations data, including all project related data requirements as specified by the IMT, with software approved by the User Agency.

Conduct and maintain an inventory of User Agency-provided surveys, dashboards, groups, and GIS layers.

Enter and track all parcels enrolled in the User Agency's debris removal program. Update enrolled parcels that either withdraw or are deemed ineligible.

Reconcile County eligible parcel data with the User Agency parcel layer.

ROW Map Segments: Provide dynamic area maps in a standardized, geographically based, GIS-produced system.

Develop a ROW map segment system, breaking eligible ROWs into discrete static segments, as necessary.

Update parcel status after the completion of each disaster debris or, hazard tree removal step or function, from initial SA to final sign off.

Conduct and maintain an inventory of User Agency and other agency incident provided surveys, dashboards, groups, and GIS layers.

Manage data access to ensure User Agency, Contractor, DDHTR contractor, and Tribal staff have proper access.

Ensure Automated Data Monitoring System (ADMS) software and platforms integrate Operational, planning, and environmental needs information directly with data management system(s) as specified by the User Agency, such that the data recorded through ADMS software integrates with the Contractor's GIS database (e.g., trees plotted according to their coordinates, with all recorded

information and photos included). Contractor's GIS responsibilities include the support, management and maintenance of other Agency databases as directed by the User Agency (e.g., Cal OES, DTSC, or other). If required, Contractor shall prepare a GIS transition plan.

Investigate and highlight discrepancies between various agency datasets, including GIS errors and APN discrepancies, to allow reconciliation of datasets.

If necessary, repair coding scripts in data management system(s), as specified by the User Agency.

Update, maintain, and provide developed data, web maps, applications, and dashboards.

Assess and repair scripting routines developed by User Agency and other agencies, related to the User Agency data management system(s) data access.

Connect the User Agency's data management system(s) to the Contractor's ADMS, allowing for real time updating of the User Agency's data management system(s) and any Public Facing Map (PFM).

Manually update the PFM, as requested by User Agency.

Automate PFM updates and the Incident Action Plan (IAP) and Schedulers for crew dispatching and property scheduling. This may require the development of Microsoft Structured Query Language (SQL) Server Integration Services (SSIS) routines or other specified software by User Agency, which will take information from the User Agency and Private Program ROE Trackers and populate a database linked to the parcel data powering the PFM.

Develop individual property maps for viewing by field staff to assist in locating property boundaries during assessments and tree removal to ensure the accurate marking of eligible hazard trees on a property. This includes functionality to download maps for offline use in areas of poor cell reception.

Create collector maps, as requested by the User Agency, for the field staff.

Complete requests from User Agency for data and application updates.

Update datasets and maps of eligible roads, as applicable to the Operation.

Incorporate information related to road closures and related detours as notified by other agencies (e.g., a public works department, public safety officials, or utility companies).

Develop automated workflow to share deliverables with the User Agency using SharePoint, Box, or similar platform.

Provide for an electronic Final Sign Off (FSO) survey form and tablets (to download the form) for use by the User Agency. FSO Surveys shall include the ability to generate reports, including documentation to be determined by the IMT. Consultant shall provide up to fifteen (15) tablets to conduct final sign-offs (FSOs).

Provide a system for intaking, tracking, and addressing damage claim forms from TFLs, property owners, or other Operations staff. Provide for electronic tracking and sharing of damage claim information.

Perform frequent and thorough quality control reviews, as determined by the User Agency, on the User Agency-approved ROW data and attach available photographs.

Ensure that personnel are identified for data review and correction. All data shall be continuously reviewed, and quality checked and updated in a timely manner when discrepancies are identified.

Publish all data within twenty-four (24) hours of daily completed work. This includes, but is not limited to, data that populates the PFM, scheduling systems, and invoice documents.

2) PROJECT COMPLETION DOCUMENTATION

Prepare Final Site Reports for each property and segment of ROW, summarizing all work performed, including pre-debris removal, pre-tree removal, post-debris, and post-tree removal conditions as well as work performed during debris and tree removal. Documentation shall include, but is not limited to, the initial and final assessments, a copy of the ROE form, a summary of the quantities of materials removed from the property, the type of erosion control BMPs conducted on the property, and an indication of any unique or unexpected circumstances that occurred during the Disaster Debris and Hazard Tree Removal Operations, or any other documentation determined to be needed by the IMT. Each report shall include photos from throughout the Operation including both pre- and post-Operations for both functions. The Final Site Report format and content is subject to User Agency approval.

Conduct an after-action meeting summarizing the Operation with User Agency and other consultants, contractors, and stakeholders to evaluate the overall operation and recommend improvement to the means and methods of the operation. The after-action meeting shall address key findings and recommendations made in a summary report including a review of the monthly budget status reports. The summary report will include an improvement plan for User Agency to track improvement action items. The final report shall include an evaluation of BMPs instituted for this operation. The report shall include a comparison to historical similar or comparable Operations to recommend to the User Agency enhancements to the effectiveness and efficiencies of their emergency recovery Operations. Contractor shall also be

available to meet, answer questions, and provide records requested by third party auditors.

Provide cost summary information as part of the close out process. Such information is required prior to release of payment withholding as specified in the User Agreement. Refer to the [ICS 214](#) and [Cost Summary Template](#) for a sample format ([https://training.fema.gov/emiweb/is/icsresource/assets/ics%20forms/ics%20form%20214,%20activity%20log%20\(v3\).pdf](https://training.fema.gov/emiweb/is/icsresource/assets/ics%20forms/ics%20form%20214,%20activity%20log%20(v3).pdf) and <https://www.dgs.ca.gov/-/media/76FBB4E3C57046118B8FE8E05791E1CB.ashx>). Contractor shall provide electronic versions in the format specified by the User Agency.

Incorporate User Agency edits to the final report and provide the final version electronically in the format specified by the User Agency.

3) SUPPORTING DOCUMENTATION

Collect, develop, draft, edit, circulate for signatory authorization, manage, organize, maintain, and store all User Agency DDHTR contractor contracts, invoices, reports (including if applicable, Tribal reports that include collecting, organizing, and maintaining accurate records of Tribal Monitoring activities documented during the operation), and other pertinent documentation, which may be required by applicable State or Federal requirements in support of operation expense reimbursement (Project Documentation). Examples of Project Documentation include, but are not limited to, work orders, change orders, Activity Log (ICS 214) form, invoices and related supporting information, operation reports, damage claims, electronic mail, meeting minutes, project descriptions, data, photographs, videos, road surveys, tickets, and all other media documenting contract-related decisions. Contractor may also be required to similarly collect and manage ICS 214 forms generated by the User Agency and other agencies and/or contractors. All documentation must be finalized and submitted within two (2) months of receiving the final invoice from the DDHTR contractor, unless otherwise specified by the User Agency.

4) DOCUMENT RETENTION AND CONTROL

Establish, organize, maintain, and provide, according to applicable State or Federal law, an information management system for ultimate use and ownership by User Agency to manage and maintain all Project Documents and data between the DDHTR contractor, the Tribe(s), the User Agency and other designated State Agency (if any), for User Agency's record.

5) COST VALIDATION

Provide validation and verification of all costs claimed on all invoices submitted to User Agency by the DDHTR contractor and Tribe(s). Cost validation shall include establishing a cost tracking management database for ownership and use by User Agency which compares and reconciles invoice amounts against the supporting

field tickets issued by the Contractor, the DDHTR contractor, and other supporting documentation. Also validate and verify the Tribal Monitor time invoiced versus reported on the Activity Log (ICS 214) forms and other supporting documentation. Provide priority review to all Tribal Monitoring costs, if applicable. Specifically, within ten (10) business days of receipt, or as specified in the User Agreement, of each Tribal Monitoring invoice, the Contractor shall complete its review of the Tribal Monitoring invoice and issue a Payment Recommendation Report, or in case of a discrepancy, shall provide written notice of dispute to the User Agency. Upon approval by User Agency, Contractor shall provide timely payment to Tribe(s) in accordance with Exhibit B – Payment and Budget Provisions, Section C. Tribal Monitoring.

6) BUDGET TRACKING AND REPORTING

Collect, manage and track invoice payment amounts, payments made by the County, work order numbers, amendments, retention amounts, projected remaining budget amounts, other relevant invoice information, and maintain all invoice documentation, cost tracking, budget analyses, and budget projections. Contractor shall provide the following items:

Daily Dispatch Reports for the Contractor, at a minimum shall include a tally of predicted staff deployment and other resources or metrics, as directed by the IMT. The Daily Dispatch shall be provided to the IMT by 6:00 p.m. PT, or as specified in the User Agreement, on the day prior to the date of expected work.

Daily Budget Status Reports for the Contractor, the DDHTR contractors, and any Tribe(s). The daily budget status reports shall include tallies (including debris stream tonnages), costs, projections, invoice progress reports, and evaluation of integrity controls and recommendations for each respective contractor and Tribe(s).

Monthly Budget Project Completion Status Reports, due at the first of each month, or as specified in the User Agreement, shall summarize the previous months' daily budget status reports and make budget projections through the end of the DDHTR contractor contract term, including a projection of project completion status.

Create on-demand budget reports based upon data collected by the Contractor as specified by the User Agency or designee(s).

7) DOCUMENTATION DELIVERABLES

Contractor shall provide consistent and detailed supporting documentation on all expenditure requests. This includes, but is not limited to, detailed cost allocations, ensuring timely vendor job status updates, and accurate invoice submissions. Contractor shall use and accurately complete User Agency's accounting forms. All documentation must be finalized and submitted within two (2) months of receiving the final invoice from the DDHTR contractor, unless otherwise specified by the User Agency.

8) INTEGRITY CONTROLS

Develop and implement recommended integrity controls including fraud prevention and detection measures and protocols and identification of potential conflicts of interests, as directed by the User Agency.

9) ADMINISTRATIVE RECORD

Compile, organize, maintain, and provide a complete administrative record of the Operation that shall be the ultimate property of the User Agency.

10) FINANCIAL REPORT

Prepare a financial report that includes total costs incurred in the Operation and information for each individual property within the counties served, by county, and segments of rights of way also separating those segments by counties served in a manner and level of detail acceptable to the User Agency. The acceptable level of detail in financial reports includes itemized expenses incurred, timeframe in which the work occurred, and related supporting documents, for each segment of the public ROW and private property (APN) separated by county (if applicable). The financial reports shall be organized in a manner readily usable to multiple audiences including, but not limited to public and private property owners, User Agency, Cal OES, FEMA (if applicable), and insurers for use in insurance cost reconciliation. A preliminary draft financial report shall be provided to the User Agency no later than two (2) months from receiving the notice to proceed or 1/3 of the way through the IMT anticipated field operation length (whichever comes first), or as specified in the User Agreement, for purposes of approving the report format and supporting level of supporting documentation. The draft financial report shall be provided to the User Agency within two (2) months of receipt of the final Contractor invoice, unless otherwise specified by the User Agency, for final review and comment. The final financial report shall be due within one (1) month of receiving User Agency comments on the draft, or as specified in the User Agreement, but no later than the end date of the User Agreement. Reports shall follow digital Americans with Disabilities Act (ADA) compliance standards to ensure accessibility, as specified by the User Agency.

STAFF MINIMUM REQUIREMENTS

Contractor shall provide staff to perform services meeting the minimum requirements for each position identified in this Agreement. Contractor's failure to provide staff meeting the minimum requirements shall be cause for termination of a position, the User Agreement, and/or the MSA.

Contractor's staff shall perform the tasks required to provide services to the User Agency's satisfaction under the terms and conditions of this Agreement consistent with required experience, certification, license, and/or education required herein. For the education requirements, an accredited institution shall mean a federally recognized accrediting institution recognized by the U.S. Department of Education, Office of

Postsecondary Education (OPE). A degree that is equivalent or higher shall mean a degree awarded by an accredited institution commensurate with the appropriate number of years for the degree specified (i.e., bachelor's degree shall mean a four (4) year degree and master's degree shall mean five (5) years or more of post-secondary education, etc.). Contractor shall render services as stated and as required by applicable law. Staff shall perform services in accordance with Federal, State laws and regulations, and the User Agency policies and procedures. Staff shall at all times comply with safety precautions and maintain User Agency security measures to ensure a safe work environment.

User Agency shall have the discretion to require, at User Agency specification and direction, additional levels of experience for the positions listed below. User Agencies may require resumes, and additional experience, training and/or certifications. The User Agency reserves the right to reject any recommended staff at any time. The Contractor must provide replacement staff within seventy-two (72) hours or as specified by the User Agency.

POSITIONS

The following are User Agency's requirements for the specific roles and responsibilities of Contractor's staff in the performance of this Agreement. All staff conducting work in and around the Debris Removal and Hazard Tree Removal Operations shall be trained in industry and Operational specific safety training prior to commencing work. Contractor's staff will work collaboratively with the County IMT to meet Operation objectives, facilitate effective field supervision, resolve issues as they arise, and ensure Operational efficiency. If required, Contractor shall integrate staff into the County's overall operation management structure as directed by the User Agency.

All staff must be persons with training provided by Contractor that is applicable to their duties and satisfies the minimum qualifications set forth herein.

PROGRAM MANAGER

The Program Manager is responsible for overseeing the Operations of Contractor's staff deployed as part of the Contractor Incident Management Team. This position is dedicated to making sure that the Operation has sufficient staff, equipment and materials to complete the work defined by the County's Incident Commander, Operations Section Chief, Planning Section Chief, Logistics Unit Leader, and the County's Finance Section Chief/ Contract Manager (FSC or CM) Manager.

Experience

This position must have a minimum of five (5) years' experience in managing or overseeing one (1) or more of the following: construction Operations, demolition Operations, debris removal Operations, environmental remediation teams, hazard tree removal Operations or fixed works Operations.

Must also have experience managing multi-disciplined professionals and overseeing debris and tree monitoring and removal contracts or other similar environmental remediation project.

And

Education

This position requires the possession of a bachelor's degree (equivalent or higher) from an accredited institution in a discipline such as construction management, environmental engineering, environmental science, project management, waste management, silviculture, forestry, arboriculture, or management.

INCIDENT COMMANDER

The Incident Commander (IC) shall be responsible for overseeing the on-site Contractor ICS staff and be full-time in the field.

Experience

This position must have a minimum of five (5) years' experience managing or overseeing one (1) or more of the following: construction Operations, demolition Operations, debris removal Operations, environmental remediation teams, hazard tree removal Operations or fixed works Operations.

Must also have experience managing multi-disciplined professionals and overseeing debris and tree monitoring and removal contracts or other similar environmental remediation project.

And

Education

This position requires the possession of a bachelor's degree (equivalent or higher) from an accredited institution in a discipline such as construction management, environmental engineering, environmental science, project management, waste management, silviculture, forestry, arboriculture, or management.

HEALTH AND SAFETY OFFICER

The Health and Safety Officer shall prepare the Safe Work Plan that is reviewed and signed by a Certified Safety Professional (CSP) or Certified Industrial Hygienist (CIH). The Health and Safety Officer shall be responsible for implementing a Safe Work Plan covering all Contractor Activities, listed in this SOW, for Contractor's staff and/or Contractor's Subcontractors, and User Agency staff at all the hazard tree removal and processing sites. The Health and Safety Officer shall coordinate with the other Safety Officers provided by the User Agency and the DDHTR contractor.

The Health and Safety Officer shall be a registered safety professional, CIH or CSP, and have appropriate experience to oversee and/or perform the tasks outlined in the Scope of Services in the User Agreement.

Experience

This position must have a minimum of two (2) years field experience with debris Operations, environmental remediation Operations or comparable experience to oversee and/or perform the tasks outlined in the Scope of Services.

And

Education

This position must be a registered safety professional (CIH or CSP).

In addition, the Health and Safety Officer must have a HAZWOPER Certification.

OPERATIONS SECTION CHIEF

The Operations Section Chief (OSC) will be responsible for developing and implementing strategy and tactics to accomplish the operation objectives by directing and/or supervising all aspects of the Disaster Debris and Hazard Tree Removal Operation, including assessments, monitoring, and removal Operations. The OSC will coordinate closely with the User Agency's OSC to support overall field Operations management. The OSC's duties include but are not limited to:

- a) Direct management of all operation related Operational activities.
- b) Support the IC, PSC, Branch Directors, Division Supervisors, and RPFs (in formulating and updating the Operational permits enforced by CAL FIRE).
- c) Establish and direct all tactical objectives for each Operational period.
- d) Organize, assign, and supervise all the field operation resources assigned to the operation.
- e) Direct the Operations Team.
- f) Record, maintain documentation, and track all damage claims submitted to the IMT, the counties, the Task Force Leaders, and Contractor's IMT.

Experience

This position must have a minimum of five (5) years' experience managing or overseeing one (1) or more of the following: construction Operations, demolition Operations, debris removal Operations, environmental remediation teams, hazard tree removal Operations or fixed works Operations.

And**Education**

This position must have current HAZWOPER Certification and fit testing as well as a HAZWOPER Certification for supervisors.

REGISTERED PROFESSIONAL FORESTER

The Registered Professional Foresters (RPFs) shall help the County and the IMT manage the DDHTR contractor and Subcontractors to ensure the proper implementation of the California Forest Practice Rules for Operational permits enforced by CAL FIRE. The RPFs duties include but are not limited to:

- a) Assist the hazard tree removal contractor's Licensed Timber Operator (LTO) in obtaining Timber Harvest Plans/ Conversion Exemptions (THPs/CEs) for each subarea.
- b) Oversee the LTOs felling, removing, and processing marked hazard trees in such a manner as to protect any personal property and/or utilities in the process.
- c) Train all Arborists as to how trees will be assessed as part of the specific Operations, for consistency of assessments.
- d) Ensure all hazard tree assessments conducted by Arborists comply with the eligibility and assessment criteria outlined in this agreement and as provided by the IMT.

Experience

This position must have a minimum of seven (7) years' experience, at least three (3) years must be the lead of forestry work, or forestry work under the supervision of a person registered.

And**Education**

This position requires the possession of a bachelor's degree in forestry. Must be a RPF pursuant to California Forest Practice Rules, Public Resources Code (PRC), Division 1, Chapter 2.5, and Article 3.

REGISTERED PROFESSIONAL FORESTER DESIGNEE

The Registered Professional Foresters Designee shall assist the Contractor's RPF manage the DDHTR contractor and Subcontractors to ensure the proper implementation of the California Forest Practice Rules for Operational permits enforced by CalFire. The RPFs duties include but are not limited to:

Assist the hazard tree removal contractor's LTO in obtaining Timber Harvest Plans/ Conversion Exemptions (THPs/CEs) for each subarea.

Oversee the LTOs felling, removing, and processing marked hazard trees in such a manner as to protect any personal property and/or utilities in the process.

Train all Arborists as to how trees will be assessed as part of the specific Operations, for consistency of assessments.

Ensure all hazard tree assessments conducted by Arborists comply with the eligibility and assessment criteria outlined in this agreement and as provided by the IMT.

Experience

This position must have a minimum of two (2) years' experience.

And

Education

This position requires the possession of a bachelor's degree in forestry or closely related field from a Society of American Foresters accredited university OR if no college degree, work under a RPF for three (3) years.

ARBORIST (TRAQ)

The Certified Arborists are ISA Certified (or similar) and TRAQ qualified and trained in assessing the health of fire-damaged trees. Arborists, when not a part of a Hazard Tree Assessment Strike Team, may perform other tree assessment services as directed by the IMT. The Arborists shall all be trained by the RPF as to how the hazard trees will be assessed for consistency of assessments during the operation.

At least seventy-five (75) percent of Arborists provided under this MSA shall have a minimum of three (3) years' experience performing the duties of an Arborist.

Experience

This position must have a minimum of two (2) years' experience as a Certified Arborist (i.e., International Society of Arboriculture (ISA), America Society of Consulting Arborist (ASCA), or certified or a degreed Forester).

And

Education

This position requires a Certified Arborist (i.e., International Society of Arboriculture (ISA), America Society of Consulting Arborist (ASCA), or certified or a degreed Forester) who are also Tree Risk Assessment Qualified (TRAQ).

BRANCH DIRECTOR

The Branch Director (BD) is responsible to supervise and support all Division Supervisors (responsible for both overseeing their Division Supervisors and supporting their tasks as well as coordinating with the DDHTR contractor to address field activities concerns/issues) and to report back to the OSC and IC about status or issues/concerns with Operations in their purview. The duties for this position include:

Provide and/or verify that the Division Supervisors are properly trained to conduct the work assigned.

Provide direct supervision of and direction to the Division Supervisor and the work they are conducting.

Inform the OSC of issues and concerns learned from within the Branch from the DS's and TFLs. The BD shall provide suggestions on more efficient and effective improvements to the operation.

Provide the necessary health and safety equipment and materials required for the Division Supervisors for the work they are conducting.

Provide the forms, tools, and communication equipment to keep in contact with the Division Supervisor at all times.

Report directly to the OSC and be the line of contact between the OSC and the Division Supervisors in fulfilling the responsibilities of the Branch as assigned by the OSC.

Experience

This position must have a minimum of three (3) years' experience managing or overseeing one (1) or more of the following: construction Operations, demolition Operations, debris removal Operations, environmental remediation teams, hazard tree removal Operations or fixed works Operations. Works directly with the OSC and/or the DOSC.

And

Education

Must have current HAZWOPER Certification and fit testing.

DIVISION SUPERVISOR

The Division Supervisors (DSs) are responsible to supervise and support all Task Force Leaders (both responsible for overseeing the DDHTR contractor's Field Activities including documenting the trees removed from each property within their

logistical area of supervision and working with the DDHTR contractor's Superintendents addressing Operational issues) and other staff/resources assigned to their Division, and reporting their status to the BD. The duties for this position include:

Understand the DDHTR contractor's contract and their Special Provisions requirements and monitor the DDHTR contractor's implementation of these requirements and of the Operational permits enforced by CAL FIRE (that covers their logistical area, provided by the PSC and the Lead Forester).

Provide and/or verify that the Task Force Leaders are properly trained to conduct the work assigned.

Provide direct supervision of and direction to the Task Force Leaders and the work they are conducting.

Inform the BD of issues or suggestions on how to conduct the Operation more efficiently and effectively.

Provide the necessary health and safety equipment and materials required for the Task Force Leaders for the work they are conducting.

Provide the forms, tools, and communication equipment to keep in contact with the Task Force Leaders at all times.

Report directly to the BD and be the line of contact between the BD and the Task Force Leaders in fulfilling the responsibilities of the Division as assigned by the OSC.

Experience

This position must have a minimum of (3) years' experience managing or overseeing one (1) or more of the following: construction Operations, demolition Operations, debris removal Operations, environmental remediation teams, hazard tree removal Operations or fixed works Operations.

And

Education

This position must have current HAZWOPER Certification and fit testing.

TASK FORCE LEADER

Task Force Leaders include:

Task Force Leader/ Debris Assessments or Removal Monitor.

Task Force Leader/ Hazard Tree Assessments or Tree Removal Monitors.

Task Force Leader/ Materials Receiving Facilities.

Task Force Leaders (TFLs) shall be selected and assigned by Contractor's Program Manager and report directly to and work for the DS, the BD, and ultimately the OSC. The TFLs are responsible for conducting Site Assessments, working with the disaster debris removal crews, hazard tree removal crews, monitoring Operations at processing and end use facilities, documenting hazard tree assessments as part of a Hazard Tree Assessment Strike Team, and performing other duties as described in this agreement and/or as prescribed by the CM, in support of the IMT. The TFL will ensure Operations are conducted in accordance with the terms of this agreement, including Exhibit A.1 – Special Provisions. Additionally, the TFLs shall:

Be responsible for bringing to each property, understanding, and following the requirements included in the initial site plan and the ROE or other IMT approved document anytime they are at an Operational property.

Attend all OSC and/or DDHTR contractor-initiated safety meetings to discuss possible personal and community hazards.

Carry out, under the direction of the OSC, the BD, and the DS, the Operational permits enforced by CAL FIRE requirements for each individual property assigned, and to read and follow the property owners' directions, listed on the signed and county approved ROE forms or within the town or county ROWs.

Inspect each Tree Removal Contractors' truck supporting work on each property and ensure that they each have a safety check placard, issued by the Assessment and Monitoring Contractor's DOT commercial truck inspector teams.

Complete and submit to PSC and/or any additional governmental agency all documentation that is required for User Agency to validate work for all covered trees removed and related costs.

Provide daily oral status reports to the DS, the BD, and the OSC, or designees, at the end of each day.

Coordinate and work cooperatively with the DDHTR contractor, air sampling consultants, the County Health and Safety Officer, and the DDHTR contractor's Health and Safety Officers, and other Operations officials, as determined by the IMT.

Coordinate and communicate with the County OSC and PSC on a regular basis or as needed, including reporting any unresolved issues, concerns, or complications that may be occurring with the DDHTR contractor.

Be present during any disaster debris removal or hazard tree related activities, and related on-site management, during Operational hours unless otherwise stated by the OSC.

Perform other requests as directed by the User Agency CM or designated proxy, in consultation with the OSC and/or the PSC, the CM, and/or the IMT.

Document each tree that is chipped and taken to the end use facilities.

Experience

This position must have a minimum of five (5) years of field/construction experience only, or two (2) years of fire debris monitoring experience only.

And

Education

This position must have current HAZWOPER Certification and fit testing.

CERTIFIED ASBESTOS CONSULTANT

This position serves as a Certified Asbestos Consultant (CAC), per Cal OSHA requirements and per the California Department of Industrial Relations (DIR). Per Title 8, CCR, Article 2.6, Section 341.15 f. This position requires current CAC Certification.

Based on the general age of the buildings that were impacted by the fire Operation, if there is good reason to believe that these buildings were or could have been constructed during a time when asbestos containing building materials were available for use, conduct a per site Asbestos Survey, after and in reference to DTSC Report summarizing their initial findings based on their preliminary hazardous waste assessment for ACM for these properties.

Asbestos qualified site inspectors shall conduct visual assessment of each property in the program base on a modified Asbestos Hazard Emergency Response Act (AHERA) sampling approach on each lot for suspect ACM. Sampling of potential ACM will be conducted by a CAC or CSSTs working under the direction of a CAC. The CAC or CSST will collect bulk samples for asbestos in representative lots and have them analyzed as appropriate. Full NESHAP asbestos surveys may be performed on partially burned structures as directed by the Debris Group Supervisor.

At a minimum, the CAC shall contact and direct the registered Asbestos Removal Contractor debris removal team to properly collect, package, remove and dispose of the verified asbestos containing materials following BMPs for ACM removal. The CAC shall document the materials found, removed and disposed of, to be included as part of the Final Site Clean Report.

Experience

This position must have a minimum of three (3) years of field experience, in assessing asbestos post-fire conditions.

And**Education**

This position requires a current CAC Certification.

CERTIFIED SITE SURVEILLANCE TECHNICIAN

This position serves as a Certified Site Surveillance Technician (CSSTs) per Cal OSHA requirements and per DIR. Per Title 8, CCR, Article 2.6, Section 341.15 f. This position requires a current CSST Certification. The CSST works under the direction of a CAC.

Based on the general age of the buildings that were impacted by the fire Operation, if there is good reason to believe that these buildings were or could have been constructed during a time when asbestos containing building materials were available for use, conduct a per site Asbestos Survey, after and in reference to DTSC Report summarizing their initial findings based on their preliminary hazardous waste assessment for ACM for these properties.

Asbestos qualified site inspectors shall conduct visual assessment of each property in the program base on a modified Asbestos Hazard Emergency Response Act (AHERA) sampling approach on each lot for suspect ACM. Sampling of potential ACM will be conducted by a Certified Asbestos Consultant (CAC) or Certified Site Surveillance Technician (CSSTs) working under the direction of a CAC. The CAC or CSST will collect bulk samples for asbestos in representative lots and have them analyzed as appropriate. Full NESHAP asbestos surveys may be performed on partially burned structures as directed by the Debris Group Supervisor.

At a minimum, the CAC shall contact and direct the registered Asbestos Removal Contractor debris removal team to properly collect, package, remove and dispose of the verified asbestos containing materials following BMPs for ACM removal. The CAC shall document the materials found, removed and disposed of, to be included as part of the Final Site Clean Report.

Experience

This position must have a minimum of one (1) year of field experience, in assessing asbestos post-fire conditions.

And

Education

This position requires a current CSST Certification.

ENVIRONMENTAL GROUP SUPERVISOR/ WATER QUALITY

The Water Quality Group Supervisor (WQ-EGS) will be responsible for training and directing the Water Quality Environmental Unit Leaders (EUL)s in assessing parcels for the appropriate BMPs to be used to meet the Federal, State, Regional and Local water quality protection requirements. The EULs, under the WQ-EGS's supervision will also inspect the BMPs installed by the DDHTR contractor. The WQ-EGS must hold a Construction General Permit Qualified SWPPP Practitioner (QSP) and/or a Qualified SWPPP Developer (QSD) as certified.

Experience

This position must have a minimum of five (5) years of field experience conducting stormwater bmp systems design, construction and/or bmp systems monitoring or other comparable background.

And**Education**

This position requires the possession of a bachelor's degree in civil engineering, geology, engineering geology or similar technical field. Must have one of the three professional licenses with the California Board of Professional Engineers, Land Surveyors or Geologists at the Department of Consumer Affairs in the State of California. The position must also be trained and certified as a Qualified Storm Water Pollution Prevention Plan (SWPPP) Developer (QSD) and/or a Qualified SWPPP Practitioner (QSP) by the State Water Resources Control Board (SWRCB) or SWRCB approved program. Must have received training by degreed professionals experienced in stormwater BMP systems design and/or construction.

ENVIRONMENTAL GROUP SUPERVISOR/ SITE ASSESSMENT/ SOIL SAMPLING

The Site Assessment/Soil Sampling Environmental Group Supervisor (SA/SS EGS) shall oversee the environmental assessment EUL staff assessing and documenting the disaster debris on program properties. The SA/SS EGS shall also ensure that the data collected by the EULs are uploaded to the Contractor's database system by the end of the day and that the data is reviewed for quality assurance by noon the following workday.

The SA/SS EGS shall also direct and supervise the soil sampling EULs, once directed by the User Agency, as to the sites ready for soil sampling. The SA/SS EGS shall also be responsible for determining the decision units for each APN based on the requirements of the Special Provisions.

Experience

This position must have a minimum of five (5) years of environmental site assessments for disaster debris removal Operations and/or environmental remediation or environmental assessment soil sampling experience. Also, have experience conducting environmental field monitoring programs or other comparable background.

And**Education**

This position requires the possession of a bachelor's degree in a field of geology or similar field and shall have a professional geologist or engineering geologist license.

ENVIRONMENTAL GROUP SUPERVISOR/ AIR QUALITY

The Air Quality Group Supervisor (AQ-EGS) for criteria air contaminants shall oversee the collection of air pollutants that may cause health hazards from the debris recovery Operations. Criteria air contaminants are typically emitted from many sources and the Environmental DSs/Air Quality is responsible for providing and implementing an air monitoring and sampling plan.

Experience

This position must have a minimum of two (2) years of environmental permitting experience. Experience shall include understanding and preparation of documents meeting CEQA and NEPA environmental review requirements as well as the implementation of such requirements. Also, have experience conducting environmental field monitoring programs or other comparable background.

And**Education**

This position requires the possession of a minimum of a bachelor's degree in a field of science or environmental engineering, or other applicable area of science.

ENVIRONMENTAL GROUP SUPERVISOR/ ENVIRONMENTAL PERMITTING

Provide an Environmental Group Supervisor (EP-EGS) to assist the RPFs and the User Agency in preparing and overseeing the appropriate implementation of each of the water quality BMPs required in the Operational permits enforced by CAL FIRE with respect to CEQA and NEPA environmental protection requirements, for protection of endangered and impacted species and their habitats under emergency Operations, summarized in the EPP.

Experience

This position must have a minimum of five (5) years of environmental protection permit preparation including experience in preparing California Environmental Impact Reports (EIRs) and/or monitoring the implementation of required environmental impact mitigation measures. This position must also have experience in preparing environmental permit documents, coordinating with Federal, State and Regional resource Agencies in obtaining such permits and overseeing the implementation of the environmental protective permit requirements.

And**Education**

This position requires the possession of a minimum of a bachelor's degree in environmental science, geography, environmental engineering field or other applicable field of science.

ENVIRONMENTAL GROUP MANAGER/ SENIOR ENVIRONMENTAL SPECIALIST

Provide an Environmental Group Manager/ Senior Environmental Specialist will act as the overall environmental services manager, directly supervising the EGSs listed above, coordinate with the RPFs and the OSC and the PSC to make sure that the environmental services are properly staffed and supported with field equipment, enough analytical laboratories, and other requirements to ensure efficient and timely environmental services in support of the operation.

Experience

This position must have a minimum of seven (7) years of supervising or managing environmental aspects of disaster debris removal Operations, environmental protective mitigation measure implementation, environmental permit bmp installation and/or environmental remediation field programs environmental support experience. Also, have experience directing/managing environmental field monitoring programs or other comparable background.

And**Education**

This position requires the possession of a minimum of a bachelor's degree in a field of science or environmental engineering.

OPERATIONAL SPECIFIC EXPERT/ OPERATIONAL SPECIFIC EXPERT SUPERVISOR

An Operational Specific Expert or Operational Specific Expert Supervisor is a person who has comprehensive and authoritative knowledge, abilities or skills through extensive practice and/or education in a particular area not found in any of the above positions. Examples may include, but not limited to, biological, geospatial, historic, archeological, or geotechnical engineering (slope stability evaluation) specialties. Qualifying experience and education, determined by User Agencies, are at the highest, specialized level. Contractor must provide objective measures of expertise, which may include but are not limited to unique credentials, patents, research, and publication history, etc.

ENVIRONMENTAL UNIT LEADER

Environmental Unit Leaders include:

Environmental Unit Leader/ Water Quality BMPs.

Environmental Unit Leader/ Site Assessment/ Soil Sampling.

Environmental Unit Leader/ Air Quality.

The Environmental Unit Leaders (EULs), under the direction of their respective EUL Supervisors, will be responsible for monitoring and supporting the field work conducted by the water quality professionals, Biologists and Archaeologists in addressing the environmental requirements of the disaster debris removal and hazard tree EPP, inclusive of meeting the Forest Practice Rules environmental protection measures (as appropriate).

The Site Assessment/Soil Sampling EUL shall also be qualified to use XRF equipment.

Experience

The Environmental Unit Leader for Water Quality will have a minimum of two (2) years of experience conducting stormwater bmp assessment, monitoring, and/or installation on debris removal and hazard tree removal Operations or similar projects.

The Environmental Unit Leader for Site Assessment/Soil Sampling must have a minimum of two (2) years of environmental site assessments for disaster debris removal Operations and/or environmental remediation or environmental assessment soil sampling experience. Alternatively, may have experience conducting environmental field monitoring programs or other comparable background.

The Environmental Unit Leader for Air Quality will have a minimum of two (2) years of experience conducting ambient and construction related air monitoring sampling

equipment setup and take down on debris removal and hazard tree removal Operations or similar projects.

And

Education

This position must have current HAZWOPER Certification and fit testing.

DATA/ PACKET MANAGER

The Data Packet manager shall electronically manage and track all the site documentation including, but not limited to the following: ROEs (or source ROW segment), all site documentation, and daily activity documentation, trucking documentation, damage claim records, and site data reconciliation with the DDHTR contractor. The Data/Packet Manager shall compile documentation for cost tracking and reconciliation.

The Data/Packet Manager shall also make collected data available to the Debris Group Supervisor, Planner, and Finance Lead and the entire IMT as requested to help improve the effectiveness and efficiency of the operation.

Experience

This position must have a minimum of two (2) years' experience electronically managing and tracking site documentation on debris removal and hazard tree removal Operations.

And

Education

This position requires the possession of a bachelor's degree in Information Technology (IT) database, finance, or applicable field.

PLANNING SECTION CHIEF

The Planning Section Chief (PSC) oversees incident-related data gathering and analysis regarding incident operations and assigned resources, facilitates incident action planning. Through the Incident Action Planning Process, the PSC shall track and manage the status of all operational resources, including A&M Contractor and DDHTR contractor resources. The PSC shall review and interpret the information collected during field assessments and relay findings to the proper parties. The PSC shall also track and manage the status of all enrolled parcels and ensure they are progressing through the debris removal and hazard tree removal processes as efficiently as possible, including but not limited to:

- a) Validating Right-of-Entry Permits submitted by User Agency to ensure all fields have been properly completed.
- b) Scheduling parcels for field assessments conducted by the A&M Contractor, including site assessments, asbestos assessments, archaeological site assessments, biological site assessments, and hazard tree assessments.
- c) Scheduling parcels for work by the DDHTR Contractor, including asbestos abatement, debris removal, rescape, hazard tree removal, and erosion control.
- d) Notifying the User Agency when parcels are ready for a final inspection.

The PSC shall develop daily work schedules for all operational resources, using GIS tools and other analysis to ensure User Agency's priorities are executed and operations are conducted in an efficient manner. Developing work schedules includes sequencing enrolled parcels in a logical manner to ensure efficient work, while accounting for various variables such as weather, property access issues, property owner concerns, special means and methods required for certain parcels, environmental and historic preservation issues, and overlap with other operators such as utilities or other government agencies. The PSC should possess a working knowledge of debris removal and hazard tree removal means and methods to ensure work schedules are practical and realistic and shall collect information from the Operation Section to inform work schedules and Incident Action Plans. If directed to do so by the User Agency, the PSC shall utilize User Agency provided systems for managing information and developing work schedules (for example, Smartsheet, ArcGIS Online, or other similar systems). The PSC shall also prepare project schedules, schedule projections, and other project management tools as directed by the User Agency. The PSC is responsible for overseeing all information and data management tasks, as described throughout this Exhibit.

The PSC shall be well versed in the Incident Action Planning Process (as defined in the FEMA Incident Action Planning Guide, 2015 Version) and shall be responsible for implementing the process on the operation, to include scheduling and facilitating planning process meetings (for example, Objectives Meetings, Tactics Meetings,

Planning Meetings, and Operations Briefings), preparing the Incident Action Plan for the operational period, and ensuring User Agency priorities are properly accounted for in the Planning Process.

The PSC may perform these duties in support of the User Agency's PSC or may independently execute these duties as the overall PSC for the operation. If serving as the overall PSC, the PSC may serve on the User Agency's IMT, reporting directly to the User Agency's Incident Commander. When serving on the User Agency's IMT, the PSC shall communicate directly with other User Agency IMT personnel in a transparent manner, and may participate in sensitive or confidential meetings. The PSC shall coordinate closely with other A&M Contractor personnel,

the DDHTR Contractor, the User Agency's OSC, the User Agency's FSC, and the User Agency's IC. As needed, the PSC shall manage Deputy Planning Section Chiefs, GIS Professionals, and other supporting personnel responsible for call center operations, packet/data management, quality assurance, quality control, work scheduling, coordination with local government, and other Planning Section functions.

Experience

This position must have a minimum of five (5) years' experience managing or supporting one or more of the following: large-scale construction operations, demolition operations, debris removal operations, environmental remediation operations, hazard tree removal operations, or other similar operations of similar size and complexity, including at least one (1) year of experience in a management or coordination role sufficiently similar to Planning Section Chief or Deputy Planning Section Chief position described herein.

And

Education

This position requires the possession of an associate degree (equivalent or higher) from an accredited institution in a discipline such as construction management, environmental engineering, environmental science, project management, waste management, silviculture, forestry, arboriculture, or disaster management. The PSC shall also have taken both FEMA ICS-300 (Intermediate ICS for Expanding Incidents) and FEMA ICS-400 (Advanced ICS: Command and General Staff—Complex Incidents).

DEPUTY PLANNING SECTION CHIEF

Deputy Planning Section Chiefs (DPSCs) support the PSC overseeing either the Disaster Debris Removal Operation or the Hazard Tree Removal Operation. DPSCs assist the PSC in overseeing the collection, evaluation, and dissemination of Operational information related to the operation. It is the DPSCs responsibility to prepare and assist the PSC in implementing the Disaster Debris and Hazard Tree Removal Operations Planning, as well as track the status of all operation resources and all the preparations for, data management from, and the final dispositions of each property that has entered into the tree removal program.

The Deputy Planning Section Chief shall be prepared and qualified to fulfill the requirements of the Planning Section Chief role.

Experience

This position must have a minimum of five (5) years' experience managing or overseeing or supporting one or more of the following: construction Operations,

demolition Operations, debris removal Operations, environmental remediation teams, hazard tree removal Operations or other similar size staff management Operations.

And

Education

This position requires the possession of an associate degree (equivalent or higher) from an accredited institution in a discipline such as construction management, environmental engineering, environmental science, project management, waste management, silviculture, forestry, arboriculture, or disaster management.

GIS PROFESSIONAL

GIS professional shall be responsible for taking all local fire Operation information, local agency information, mapping, and infrastructure information and building it into a cohesive database that can be used to assess, coordinate, and summarize all the tree removal activities that have taken place. The database shall be developed by the GIS professional to provide the PSC, OSC, and the FSC/CM an easy way to access information that will assist them in performing their duties. This database shall include all daily activity logs, truck tickets, site tree assessments, and closure reports for each participating property, using a User Agency as specified data structure. The Database shall be based on Esri-compatible system with the User Agency's GIS systems and standards.

Experience

This position must have a minimum of five (5) years' experience in GIS and other database management systems.

And

Education

This position requires the possession of a bachelor's degree in geographic information science, geography, computer science, surveying, or urban planning.

FINANCE SECTION CHIEF

Finance Section Chiefs (FSCs) are responsible for the Contractor's financial and cost analysis and cost efficiency aspects of the Disaster Debris Removal Operation and for the Hazard Tree Removal Operation. These include the DDHTR contractor's' Agreement negotiations (if appropriate), recording or auditing staff and equipment time, documenting and processing claims for accidents and injuries occurring at the operation, and keeping a running tally of the quantities and costs associated with the operation. The FSC will work cooperatively in support of the IC and the operation requirements as defined by IC, Cal OES and the User Agency

Contract Manager with concurrence of the User Agency Chief Accounting Officer. User Agency will likely use the Contractor's FSC as support to User Agency's own FSC/CM but requires the Contractor's FSC to be fully qualified to assist and even take over the role on an as-needed basis.

The FSC is responsible for the following:

Assist User Agency in tracking, assembling, documenting, and administering damage claim and damage claim evaluations.

Assist User Agency's FSC in continuously monitoring the DDHTR contractor's expenses, costs, and quantities, for which they have issued tickets, and provide periodic reports to the CM. The Contractor shall also be available to meet, answer questions, and provide records requested by third party auditors.

Prepare or support User Agency Staff in the implementation of the DDHTR contractor(s) contract.

Support User Agency staff in the oversight and implementation of the DDHTR contractor(s) contract.

Assist User Agency staff in setting up the DDHTR contractor(s) and their Subcontractor's invoice requirements to provide ease of invoice review and cost tracking of debris removal Operations conducted per site cleaned up as part of the Debris Removal Program, to best meet User Agency's Staff, Cal OES needs for ease of State and/or Federal (if applicable) reimbursement.

Establish a detailed database collection and management system to enhance the Contractor invoicing, invoice review process, and audit capabilities, at the User Agency FSC/CM's direction with concurrence of the Chief Accounting Officer of User Agency. The database shall include, at a minimum, invoiced and actual payment financial data by invoice number and parcel. If applicable, database shall be broken out by FEMA eligible (if applicable), ineligible, and community costs by invoice number and payment amount as directed by the User Agency FSC with concurrence of the Chief Accounting Officer of User Agency.

Implement Changes to the tickets issued by TFLs to include Change Orders, as directed by the FSC.

Under the direction of the Chief Accounting Officer of User Agency, assist User Agency staff in the detailed review and processing of invoices for payment. This support may take place either in the DROC/TROC office in the field, or (at the end of the project) at User Agency's offices. At a minimum, the detailed review shall ensure that:

- I. Invoices and charges comply with provisions of purchase orders, sub-purchase orders, contracts, leases, service agreements, grants, etc. This

includes ensuring completed work orders, adherence to contract terms and invoicing, and that there is proper authorization and internal control of purchases and assets in accordance with applicable County rules, regulations, and policies.

- II. Invoices are itemized and presented in accordance with contract provisions, and that charges are broken out as appropriate, such as by task, project, sub-contractor amounts and services. Invoices must contain supporting documentation as defined by the User Agency Chief Accounting Officer.
- III. Items or services invoiced have been received or provided, as evidenced by stock received reports, receipts or similar documents or verification by authorized individuals, and is fully documented for audit or other external review.
- IV. Document the authority to obtain the goods or services.
- V. Invoices are not duplicate, and payment has not been previously made.

Assist User Agency staff in the detailed review and processing of invoices for payment. This support may take place either in the DROC office in the field, or (at the end of the project) at User Agency's offices.

Assist User Agency in assembling and assessing Agreement correspondence. This includes assistance in responding to the Contractor's requests for information, notices of potential claims, and claims review, assessment, and recommendations.

Experience

This position must have a minimum of five (5) years' experience providing office administrative support in the following areas: finance, report preparation, staff communication, preparing invoices, and maintaining financial records.

And

Education

This position requires the possession of a bachelor's degree from an accredited institution in accounting, finance, business, or related disciplines. The FSC, or DFSC, shall also have one of the following qualifications:

- a. Certified public accountant (CPA)
- b. Certified Construction Auditor
- c. Construction Control Professional
- d. Certified Management Accountant

- e. Certified Fraud Examiner
- f. Certified Bookkeeper
- g. Certified Inspector General
- h. Certified Inspector General Auditor
- i. Certified Inspector General Investigator
- j. Certified Information Technology Professional
- k. Attorneys in good standing with the State Bar of California

DEPUTY FINANCE SECTION CHIEF

Deputy Finance Section Chiefs (DFSCs) are responsible for supporting the FSC and in managing the Contractor's financial and cost analysis and cost efficiency aspects of the Disaster Debris Removal Operation and for the Hazard Tree Removal Operation. These include the DDHTR contractor's contract negotiations (if appropriate), recording or auditing staff and equipment time, documenting and processing claims for accidents and injuries occurring at the operation, and keeping a running tally of the quantities and costs associated with the operation.

The Deputy Finance Section Chief shall fulfill the minimum qualifications of the Finance Section Chief role if and as necessary.

Experience

This position must have a minimum of five (5) years' experience providing office administrative support in the following areas: finance, report preparation, staff communication, preparing invoices, and maintaining financial records.

And

Education

This position requires the possession of a bachelor's degree from an accredited institution in accounting, finance, business, or related disciplines. The FSC, or DFSC, shall have one of the following qualifications:

- a. Certified public accountant (CPA)
- b. Certified Construction Auditor
- c. Construction Control Professional
- d. Certified Management Accountant

- e. Certified Fraud Examiner
- f. Certified Bookkeeper
- g. Certified Inspector General
- h. Certified Inspector General Auditor
- i. Certified Inspector General Investigator
- j. Certified Information Technology Professional
- k. Attorneys in good standing with the State Bar of California

ADMINISTRATIVE STAFF RESPONSIBILITIES

Administrative Staff include:

Field Accounting and Administrative Staff

Accounting and Administrative Staff

Office Accounting and Administrative Staff

Administrative staff shall be selected by Contractor's Program Manager and report directly to User Agency's PSC supporting the disaster debris and hazard tree removal functions. The services to be provided include:

- a) Develop with the DDHTR contractor and the User Agency an acceptable method for accounting of billable activities and an agreed upon format for invoices to be submitted to the Contractor for review prior to submission to User Agency for approval and payment.
- b) Track disaster debris and hazard trees removed, hauled, and deposited at final destinations by managing daily work sheets prepared by the TFLs, and collecting and collating truck tickets and destination (landfill, recycle facility, end use facility, etc.) tickets from each cleanup property on a daily basis.
- c) Tabulate and reporting daily and total project quantities for the disaster debris and hazard tree removal functions.
- d) Receive, review, and compare Contractor invoices with the daily logs and materials disposal tickets for costs expended.
- e) Evaluate invoices to verify that all costs have been charged per the Agreement approved unit rates.
- f) Report to the Finance Lead any discrepancies between the daily logs, other per lot documentation, and the invoices.

g) Other administrative requests made by either the PSC or the FSC/CM.

Experience

This position must have a minimum of two (2) years of experience providing one or all of the following services: accounting, bookkeeping, finance, administration and/or capable of supporting the FSC and DFSC required duties for Disaster Debris Removal or Hazard Tree Removal Operations.

And**Education**

This position requires the possession of a high school diploma or equivalent, at a minimum.

SENIOR BIOLOGIST

The Senior Biologist shall help to direct and oversee the Biologists interpret and implement the EPP and the operational permits enforced by the applicable resource agencies for environmental protection supporting documentation assessments as well as recommended environmental/historical BMPs and AMMs to protect these areas from negative impacts from the Operation.

The Senior Biologist shall train the Biologists so that they can conduct required environmental assessments and monitor the DDHTR contractor's debris removal and tree felling/removal crews to ensure operational permits are enforced by EPP required BMPs and AMMs.

The Senior Biologist is responsible for directing and supervising the Biologists in California and Federal Endangered Species Act Section 7 and Clean Water Act compliance.

Experience

This position must have a minimum of five (5) years of field experience, in their respective fields.

And**Education**

This position requires the possession of a minimum of a bachelor's degree in biological science.

BIOLOGIST

The Biologist shall help to interpret and implement the EPP and the operational permits enforced by the applicable resource agencies for environmental protection

supporting documentation assessments as well as recommended environmental/historical BMPs and AMMs to protect these areas from negative impacts from the Operation.

Biologist, trained by the Senior Biologist, will conduct required environmental assessments and monitor both of the DDHTR contractor's debris removal and tree felling/removal crews to ensure operational permits are enforced by CalFire required BMPs and AMMs. Some of the Biologist shall be required to have aviary and amphibian specialties to assist in necessary evaluation and protection of species (endangered and otherwise).

The Biologist are responsible for meeting the requirements, of the California and Federal Endangered Species Act Section 7 and Clean Water Act compliance.

Experience

This position must have a minimum of three (3) years of field experience. At least one Biologist shall be required to have training in aviary and amphibian specialties to assist in necessary evaluation and protection of species (endangered and otherwise).

And

Education

This position requires the possession of a minimum of a bachelor's degree in biological science or archaeology, respectively.

SENIOR ARCHAEOLOGIST

The Senior Archaeologist shall help to direct and oversee the Archaeologists interpret and implement the EPP and the operational permits enforced by the applicable resource agencies for environmental protection supporting documentation assessments as well as recommended historical BMPs and AMMs to protect these areas from negative impacts from the Operation.

The Senior Archeologist shall train the Archaeologists so that they can conduct required archaeological assessments and monitor the DDHTR contractor's debris removal and tree felling/removal crews to ensure operational permits are enforced by EPP required BMPs and AMMs.

The Senior Archaeologist will be responsible for directing, supervising, and/or carrying out actions required for compliance with Section 106 of the National Historic Preservation Act as directed by the IMT. These actions shall be conducted in coordination with Tribal Partners. The Senior Archaeologist who will need to meet the Secretary of the Interior's Professional Qualifications Standards for archaeology (36 CFR 61).

Experience

This position must have a minimum of five (5) years of field experience, in their respective fields.

And**Education**

This position requires the possession of a minimum of a bachelor's degree in archaeology.

ARCHAEOLOGIST

The Archaeologists shall help to interpret and implement the EPP and the operational permits enforced by the applicable resource agencies for environmental protection supporting documentation assessments as well as recommended environmental/historical BMPs and AMMs to protect these areas from negative impacts from the Operation.

Archaeologists, trained by the Senior Archeologist, will conduct required archaeological assessments and monitor both of the DDHTR contractor's debris removal and tree felling/removal crews to ensure operational permits are enforced by CalFire required BMPs and AMMs.

Contractor shall assign at least one Archaeologist (or Senior Archaeologist, if necessary) to be responsible for carrying out actions required for compliance with Section 106 of the National Historic Preservation Act as directed by the IMT. These actions shall be conducted in coordination with Tribal Partners. Archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for archaeology (36 CFR 61). The Senior Archaeology may also be tasked with developing relevant final reports for the Operation, at the request of User Agency.

Experience

This position must have a minimum of three (3) years of field experience.

And**Education**

This position requires the possession of a minimum of a bachelor's degree in archaeology.

PROFESSIONAL LAND SURVEYOR CREW

This position serves as a two (2) member crew of a California Department of Consumer Affairs Certified Land Surveyor (Lead) and a Land Surveyor-in-Training (LSIT). The LSIT is under the direction of the Lead. The Survey Crew will include all required survey equipment to perform the services described in the SOW tasks above.

Experience

This Certified Land Surveyor must have a minimum of five (5) years of field experience as a licensed surveyor and the LSIT shall have a minimum of one (1) year of experience.

And

Education

These positions require the possession of a high school diploma or equivalent, at a minimum.

TRUCK INSPECTION CREWS (DOT LEVEL 1)

This position serves as a two (2) member crew of DOT commercial truck inspectors. The Contractor shall:

Provide certifications and resumes indicating their experience as truck inspectors to the CM for approval. The inspectors shall have the necessary insurance, qualifications, and expertise to perform a level one inspection for all commercial trucks assigned to the operation. All inspection records, both pass and fail, shall be submitted to the IMT within twenty-four (24) hours of the inspection.

Provide two (2) person crews as directed and determined by the User Agency to be necessary to confirm that all trucks pass safety inspections as required by the State Highway Patrol and applicable State and Local regulations. The Contractor will placard each and every truck that has been inspected with a unique placard number.

Inspect all logging trucks, haul trucks, wood chip trucks, water tenders, tow trucks, street sweepers, low-beds, and other commercially licensed vehicles used on the project. Water trucks used specifically on-site lots are not subject to inspection provided they are not carrying water loads on a public road; these water trucks are considered construction vehicles.

Re-inspect ten (10) percent of all previously certified trucks every thirty (30) days.

Experience

This position must have a minimum of three (3) years' experience performing a level one inspection for commercial trucks and conducting inspections for the California Highway Patrol (CHP) or under a contract for the CHP.

CIVIL ENGINEER

The Civil Engineer shall have knowledge of methods, tools, and equipment used in one or more of the following areas of expertise (as required by the User Agency and/or the IMT): traffic analysis, traffic management, slope stability, foundation and retaining wall design and/or assessment, structure design, construction, and maintenance, as well as post disaster structure evaluation (due to earthquake, flooding or other cause of structural stress).

The Civil Engineer shall also have knowledge of methods of stress analysis for both statically determinate and indeterminate structures, of the determination and influence of deflection on the stresses in structures and of design practices and bridge or structure engineering as applied to fire/earthquake/flood or other damaged/impacted buildings, structures, bridges, and other water crossings.

The Civil Engineer shall also have the knowledge, skills, and abilities to perform any of the above listed skill sets and apply them to one or more of the following tasks: preparing traffic management plans, conducting inspections for all types of fire damaged and non-damaged bridges, major structures or transportation related structures (buildings, retaining walls, including bridge foundations, etc.). They shall be able to analyze situations and adopt an effective course of action and prepare correspondence and reports to be submitted timely to the IMT.

Contractor shall provide Civil Engineers with knowledge of method, tools, and equipment of all areas of expertise and methods described above. It is not expected that each individual Civil Engineer is individually proficient in all listed areas of expertise and methods.

Experience

This position must have a minimum of two (2) years of engineering experience in the above listed areas of expertise including but not limited to design, construction, and/or inspection of bridges, major structures, transportation related buildings, building foundations, retaining walls, and/or traffic analysis and management, as appropriate for the duties to be performed.

Experience shall include the preparation and/or reviewing of preliminary design studies, calculations, detailed designs, construction drawings, and technical specifications, and evaluation of existing buildings, structures, bridges post-disaster (depending on the services directed to be provided by the IMT).

And

Education

This position requires the possession of a minimum of a bachelor's degree in Civil, Structural, or other related fields of Engineering. Alternatively, the Civil Engineer may be in possession of a valid license as a Professional Engineer, in the state of California.

CIVIL ENGINEER SUPERVISOR

The Civil Engineer Supervisor shall have knowledge of methods, tools, and equipment used one or many of the following areas of expertise (as required by the User Agency and/or the IMT): traffic analysis, traffic management, slope stability, foundation, and retaining wall design and assessment, in structure design, construction, and maintenance as well as post disaster structure evaluation (due to earthquake, flooding or other cause of structural stress). The Civil Engineer Supervisor shall also have knowledge of methods of stress analysis for both statically determinate and indeterminate structures, of the determination and influence of deflection on the stresses in structures and of design practices and bridge or structure engineering as applied to transportation related structures that can be applied to fire/earthquake/flood or other damaged/impacted buildings, structures, bridges, and other water crossings. The Civil Engineer Supervisor, if necessary, will oversee and direct the tasks conducted by the Civil Engineer.

The Civil Engineer Supervisor shall have the skills and abilities to perform any of the above listed services including preparing traffic management plans and conducting inspections for all types of fire damaged and non-damaged bridges, major structures, or transportation related buildings, including bridge foundations; analyzing situations and adopt an effective course of action; prepare correspondence and reports to be submitted timely to the IMT.

Experience

This position must have a minimum of five (5) years of engineering experience in the above listed areas of expertise including but not limited to the design, construction, and/or inspection of bridges, major structures, or transportation related buildings, as appropriate for the duties to be performed. This experience shall include managing other professional engineering staff, including specifically managing one or more Civil Engineers.

Experience shall include the preparation and/or reviewing of preliminary design studies, calculations, detailed designs, construction drawings, and technical specifications, and evaluation of existing buildings, structures, bridges post-disaster (depending on the services directed to be provided by the IMT).

And

Education

This position requires the possession of a minimum of a bachelor's degree in Civil, Structural, or other related field of Engineering. This position also requires possession of a valid license as a Professional Civil Engineer issued by the California State Board of Registration for Professional Engineers.

SUBSTITUTION OF KEY STAFF

Contractor shall obtain written approval prior to making any substitutions or alterations to the Contractor's originally proposed key staff in the User Agreement, Subcontractors, and project organization. The Contractor shall petition the User Agency to add or remove Contractor key staff or Subcontractors at any time during the life of the User Agreement by providing the following information to the User Agency in writing:

A transmittal letter stating the reasons why the modification to the Contractor's team is necessary, including a statement as to whether and how such a substitution may affect the Contractor's ability to perform in accordance with this Agreement.

A resume for the individual proposed to be added to the Contractor's staff.

A revised organizational chart for the Contractor's team depicting all Subcontractors and key staff.

The User Agency may direct the Contractor to replace staff, including key staff. These decisions shall be at the sole discretion of the User Agency.

MISCELLANEOUS SERVICES**TRIBAL MONITORING**

Under the direction of the User Agency, Contractor shall provide the following services for the oversight of Tribal Monitoring Operations, including but not limited to:

Administrative staff to assist User Agency's government-to-government consultations with Tribe(s).

Administrative staff to assist Contractor's execution of a negotiated SOW with the Tribe(s) for Tribal Monitoring services, with the approval of User Agency.

Field staff to ensure Tribal Partners providing services under the Contractor perform all aspects of the SOW consistent with Tribal cultural norms and expectations, submit documentation as required in the SOW, and verify costs are reasonable and appropriate.

GPS TRACKING OF COMMERCIAL FLEET

The Contractor shall be responsible for installing and monitoring GPS tracking on all DDHTR contractor haul trucks, street sweepers, and community water tenders. The Contractor shall provide access to the tracking software to the IMT and DDHTR contractor.

LABORATORY ANALYSES

The Contractor shall send soil, water, air, and asbestos samples to outside laboratories for analysis. The User Agency will reimburse the Contractor for laboratory services for samples collected on a chain of custody basis (assuming the standard laboratory chain of custody form includes a minimum of ten (10) separate samples). The laboratory chain of custody form will be filled out documenting samples collected from a property for which soil or air samples are collected. One chain of custody form per property, per sample event. A sample event encompasses soil, water, air, or bulk asbestos samples collected from one property on the same day.

The Contractor shall ensure laboratory sample analysis reporting turn-around-times do not exceed seven (7) calendar days from the date of sample collection.

When directed by the IMT to run expedited analytical sample analyses (24-hour lab analysis turn-around-times) the A&M Contractor will be reimbursed at a fixed rate of two (2) times Proposer's laboratory base rate rates per COC for the listed constituents.

All laboratory sample containers, packaging, sample preservation, storage, shipping, handling, preparation, processing, and reporting of results shall be provided by the contractor at no additional cost.

ADDITIONAL EQUIPMENT AND ASSOCIATED SERVICES

At no additional costs, the Contractor shall provide the additional equipment and services which may include but are not limited to:

- 1) The Contractor shall provide notification of pre-planned shutdowns, non-working days and holidays.
- 2) Health & Safety equipment, PPE, personal air monitoring equipment and analysis, cameras, computers, cell phones, navigation devices, tablets and vehicle.
- 3) Operation office and/or equipment storage facilities, administrative support.
- 4) Contractor shall provide rental equipment, generators, and fuel as specified by the User Agency as part of the air monitoring equipment.
- 5) A&M Contractor's Arborists and other field staff that are directed by the IMT to be working in the field during days of poor air quality and are not HAZWOPER trained shall be required to wear respirator protection. This bid line item includes providing such staff with medical spirometry testing, respirator fit testing, respirator training, and personal respirators and appropriate filter cartridges. Contractor shall perform

work in accordance with this Agreement during days when AQI is less than five hundred (500). For days when User Agency directs Contractor to continue work under this Agreement when AQI is greater than five hundred (500), Contractor shall supply staff with Respirators complying with 8 CCR 5144. For days when Contractor performs work on days with AQI above five hundred (500), Contractor shall be eligible for reimbursement as identified in Exhibit B.1 – Rate Sheet.

BREACH/REMEDY FOR DEFAULT

Contractor shall perform all work pursuant to this Agreement in a safe, workmanlike, professional, efficient, and expeditious manner to the satisfaction of the User Agency. Contractor shall coordinate with User Agency for access to each parcel to inspect and audit work conducted, documentation provided, and data required under this Agreement.

STOP WORK NOTICE

Immediately upon receiving a written notice from user Agency to stop work, Contractor shall cease all work under this Agreement.

User Agency shall not compensate Contractor for any rework or deficient work.

DELAY

In the event that User Agency determines the Contractor is responsible for any unapproved delay or damages caused by the Contractor's delay, the Contractor shall immediately implement all measures directed by the User Agency to remedy the issue at the Contractor's sole expense. User Agency reserves the right to retain withheld funds in order to remedy any unapproved delay or damages caused by the Contractor's delay. Such remedy may include, but is not limited to, reimbursement of the User Agency for any non-working day costs incurred by the DDHTR contractor.

BREACH

In the event of Contractor's breach of any condition or term of this Agreement, User Agency will provide Contractor written notice describing the breach. If Contractor does not, within three (3) days after notice is provided, 1) cure the breach described in User Agency's Notice or 2) if the User Agency agrees the breach is not curable within three (3) days, cure the breach within the number of days specified by the User Agency, Contractor shall be in default under this Agreement.

In the event of Contractor's default under this Agreement, User Agency shall be entitled to all remedies available at law including, but not limited to, termination of this Agreement, withholding of any amount billed, and/or recovery of funds disbursed.

EXPERIENCE MODIFICATION RATE SUBMITTAL

The Contractor shall provide their current Workers Compensation Insurance Experience Modification Rate (EMR) to the User Agency or proof of non-eligibility. If the EMR number exceeds one (1.00) at any time, the User Agency at their sole discretion may terminate the individual User Agreement within thirty (30) days of verifying the rate has exceeded one (1.00).

The Contractor shall provide their OSHA lost time injury/illness incidence and OSHA recordable injury/illness incidence records at the User Agency request.

HOURS AND LOCATION OF SERVICES

All work will be conducted on Pacific Time; Pacific Standard Time (early November to mid-March) and Pacific Daylight Time (mid-March to early November).

Services shall be provided on site in the county(ies) identified for each respective operation by the User Agency, unless remote work is authorized by the User Agency.

DEMOBILIZATION

The User Agency may order Contractor to demobilize from the operation for a duration specified by the User Agency. Reasons for this decision could include, but are not limited to, inclement weather, conflicting Operations, or Operational needs. This decision is in the sole discretion of the User Agency.

User Agency shall endeavor to provide notice of demobilization twelve (12) or more hours in advance. If User Agency does not provide Contractor with notice of demobilization twelve (12) or more hours in advance, Contractor shall be eligible for compensation based on Exhibit B (7)(A)(3).

EXHIBIT D – INSURANCE REQUIREMENTS**1. GENERAL PROVISIONS APPLYING TO ALL POLICIES****A. COVERAGE TERM**

Coverage needs to be in force for the complete term of the contract. If insurance expires during the term of the contract, a new certificate must be received by the State at least thirty (30) days prior to the expiration of this insurance. Any new insurance must still comply to the original terms of the contract.

B. POLICY CANCELLATION OR TERMINATION & NOTICE OF NON-RENEWAL

Contractor is responsible to notify the State within five (5) business days before the effective date of any cancellation, non-renewal or material change that affects required insurance coverage. In the event Contractor fails to keep in effect at all times the specified insurance coverage, the State may, in addition to any other remedies it may have, terminate this Contract upon the occurrence of such event, subject to the provisions of this Contract.

C. DEDUCTIBLE

Contractor is responsible for any deductible or self-insured retention contained within their insurance program.

D. PRIMARY CLAUSE

Any required insurance contained in this contract shall be primary, and not excess or contributory, to any other insurance carried by the State.

E. INSURANCE CARRIER REQUIRED RATING

All insurance companies must carry a rating acceptable to the Office of Risk and Insurance Management – A or better and financial size category of VII or better to the latest edition of the A.M. Best Key Rating Guide. If the Contractor is self-insured for a portion or all of its insurance, review of financial information including a letter of credit may be required.

F. ENDORSEMENTS

Any required endorsements requested by the State must be physically attached to all requested certificates of insurance and not substituted by referring to such coverage on the certificate of insurance.

G. INADEQUATE INSURANCE

Inadequate or lack of insurance does not negate the contractor's obligations under the contract.

H. SATISFYING A SELF-INSURED RETENTION (SIR)

All insurance policies required by this contract/permit must allow the State to pay and/or act as the contractor's agent in satisfying any self-insured retention. The choice to pay and/or act as the contractor's agent in satisfying any SIR is at the State's discretion.

I. AVAILABLE COVERAGES/LIMITS

All coverage and limits available to the contractor shall also be available and applicable to the State.

J. SUBCONTRACTORS

In the case of Contractor utilization of subcontractors to complete the contracted scope of work, contractor shall include all subcontractors as insured under Contractor's insurance or supply evidence of insurance to The State equal to policies, coverages and limits required of Contractor.

2. INSURANCE REQUIREMENTS**A. COMMERCIAL GENERAL LIABILITY**

Contractor shall maintain general liability on an occurrence form with limits not less than two million dollars (\$2,000,000) per occurrence for bodily injury and property damage liability combined with a four million dollars (\$4,000,000) annual policy aggregate. The policy shall include coverage for liabilities arising out of premises, operations, independent contractors, products, completed operations, personal and advertising injury, and liability assumed under an insured contract. This insurance shall apply separately to each insured against whom claim is made or suit is brought subject to the Contractor's limit of liability.

The policy must include The State of California, its officers, agents, employees and servants as additional insureds, but only with respect to work performed under the contract.

This endorsement must be supplied under form acceptable to the Office of Risk and Insurance Management.

B. AUTOMOBILE LIABILITY

By signing this Agreement, the Contractor certifies that the Contractor and any employees, subcontractors or servants possess valid automobile coverage in accordance with California Vehicle Code sections 16450 to 16457, inclusive. The State reserves the right to request proof at any time.

Contractor shall tender an ISO Form Number CA 00 01 covering any auto (Code 1), or if Contractor has no owned autos, hired (Code 8) and non-owned autos (Code), with limits no less than \$1,000,000 per accident for bodily injury and property damage.

C. WORKERS COMPENSATION AND EMPLOYERS' LIABILITY

Contractor shall maintain statutory worker's compensation and employer's liability coverage for all its employees who will be engaged in the performance of the Contract. Employer's liability limits of one million dollars (\$1,000,000) are required. The insurer waives any right of recovery the insurer may have against the State because of payments the insurer makes for injury or damage arising out of the work done under contract/permit with the State.

A Waiver of Subrogation or Right to Recover endorsement in favor of the State must be attached to the certificate.

D. ERRORS AND OMISSIONS/PROFESSIONAL LIABILITY

Contractor shall maintain errors and omissions/professional liability insurance with limits no less than two million dollars (\$2,000,000) each occurrence and four million dollars (\$4,000,000) annual aggregate.

If the policy is written on a claims-made basis provide the following:

- i. The retroactive date must be shown and must be before the date of the contract or the beginning of contract work.
- ii. Insurance must be maintained, and evidence of insurance must be provided for at least three (3) years after completion of the contract work.
- iii. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective date, the contractor must purchase "extended reporting" coverage for a minimum of three (3) years after completion of the work.



MARIPOSA COUNTY
August 17th, 2022
REQUEST FOR SERVICES

Notice to Rank 1 – Tetra Tech, Inc.

Title: 2022 Oak Fire Debris and Hazard Tree Removal Operation

SERVICES NEEDED: In compliance with Master Service Agreement (MSA) #5-22-99-33-04 the purpose of this Request for Services (RFS) is to obtain Assessment and Monitoring (A&M) Services for Disaster Debris and Hazard Tree Removal for the 2022 Oak Fire in Mariposa County. According to CAL FIRE, the Oak Fire destroyed 127 homes and 66 other structures.

CONTRACT TERM: The term of this Agreement will span approximately nine (9) months and the anticipated start date is August 24th, 2022, subject to Mariposa County's Notice to Proceed.

CONTRACT BUDGET: Subject to the availability of funds and approval by Mariposa County, the total estimated cost is \$5,000,000.00.

Mariposa County reserves the right to amend the budget for the Agreement represented by this RFS as needs arise. Per the terms of the MSA, all rates shall be firm fixed for the MSA term, including any optional year extensions.

RESPONSE DEADLINE: Contractor must acknowledge and respond to a written User Agency request for services within twenty-four (24) hours of the request unless a different response timeframe is specified by the User Agency. Should contractor require additional time to develop its Project Response Plan, it should notify Mariposa County and request an extension. The Contractor must provide services within seventy-two (72) hours of accepting a request for services, unless otherwise specified by the User Agency.

SERVICE CATEGORIES:

Contractor shall provide staff to perform services in the following category

Category 1: 1-150 APNs – Provide Assessment and Monitoring Services for Disaster Debris and Hazard Tree Removal for quantities of 1-150.

Contractor shall provide staff to perform services in the Regions and Categories identified in Exhibit B.1 – Rate Sheet.

SERVICE REGIONS: Services shall be provided in the following Region comprised of the following California county:

Region 1 – Northeastern

Mariposa County

CONTRACTOR RESPONSE REQUIREMENTS:

- 1) Contractor must acknowledge and respond to Mariposa County's Request for Services within twenty-four (24) hours of the request.
- 2) Contractor must respond and include Experience Modification Rate (EMR) documentation of one (1.00) or less or proof of non-eligibility as identified in Section 16 of the MSA.
- 3) If the User Agency determines at its sole discretion that the Contractor's response is not acceptable, it may move to the next Ranked Contractor.
- 4) Should all Contractors within the same Region and Category fail to respond and/or provide services as required, a User Agency may request services from the Rank 1 Contractor in the next highest Category within the same Region, and so forth by Rank until services can be provided. If requesting services for Category 3 (1501+ APNs) where no next highest Category is available, Users may request services from any Rank 1 Contractor of Neighboring Region(s) that shares a border within the same Category. The selected Contractor rates shall apply.
- 5) User Agencies must notify the DGS-PD State Contract Administrator of a Contractor's failure to respond and/or provide services.
- 6) The Contractor must provide services within seventy-two (72) hours of accepting a request for services, unless otherwise specified by the User Agency

REQUIREMENTS FOR THE CONTRACTOR'S PROJECT RESPONSE PLAN:

The Contractor shall prepare and submit a Project Response Plan. The Project Response Plan should demonstrate how the Contractor will implement both the Scope of Work of the MSA and address the specific requirements outlined in Mariposa County's Request for Service. The Project Response Plan is expected to include, but not be limited to, the following:

Operation-specific organization charts;
 Resumes of key personnel, as specified in the MSA Scope of Work;
 Staffing plans and whether key personnel are currently engaged in similar projects under the MSA;
 Project or staff specific conflicts of interest;
 Certifications and/or registrations of personnel;
 Listing of subcontractors;
 Special requirements including conflicts of interest; and
 Pricing offered by the Contractor shall not exceed the rates specified in Exhibit B.1 – Rate Sheet for the Category and Region selected by the User Agency.

INVOICING AND PAYMENT

Payment Terms

Refer to Exhibit B – Payment and Budget Provisions of the MSA for payment terms and provisions.

SMALL BUSINESS (SB) PARTICIPATION

The Contractors listed below committed to subcontract at least twenty-five (25) percent of its net bid price with California-certified Small Business (SB). User Agencies can verify whether the certifications are currently valid on [Cal eProcure](http://www.caleprocure.ca.gov) (www.caleprocure.ca.gov).

Master Agreement Number	Contractor
5-22-99-33-01	Arcadis U.S., Inc.
5-22-99-33-04	Tetra Tech, Inc.
5-22-99-33-07	Witt O'Brien's, LLC

Use of any Subcontractor(s) is subject to pre-approval by User Agencies. User Agencies should request the Contractor(s) to submit a completed [Bidder Declaration Form](#) (GSPD-05-105) (<http://www.documents.dgs.ca.gov/dgs/fmc/gspd/gspd05-105.pdf>).

Upon request from a User Agency, a Contractor shall submit written clarifying information regarding Commercially Useful Function (CUF) for a User Agreement. Contractors that involve a California-certified SB, whether the Contractor is a SB or subcontracting to a SB, must perform a CUF as defined in California Government Code Section 14837(d)(4)(A).

DISABLED VETERAN BUSINESS ENTERPRISE (DVBE) PARTICIPATION

The Disabled Veteran Business Enterprise (DVBE) Requirements and the DVBE Incentive have been waived for the MSA. User Agencies are encouraged to utilize California-certified DVBE Subcontractors if available.

Upon request from a User Agency, a Contractor shall submit written clarifying information regarding Commercially Useful Function (CUF) for a User Agreement. Contractors that involve a California-certified DVBE, whether the Contractor is a DVBE or subcontracting to a DVBE, must perform a CUF as defined in California Military and Veterans Code Section 999(b)(5)(B).

Certification of payments to DVBE Subcontractors and withholding to be enforced by State Agencies.

In accordance with the State Contracting Manual, Volume 2, Section 1203.1, State Agencies shall require the Contractor to submit a complete and accurate Prime Contractor's Certification – DVBE Subcontracting Report (Std. 817) upon

acceptance of ordered goods or services for which the Contractor committed to DVBE subcontractor participation.

Upon delivery or completion of ordered goods or services, State Agencies shall do the following:

Provide proper withhold notification to prime contractors;

Withhold ten thousand dollars (\$10,000), or the full amount of the final invoice if less than ten thousand dollars (\$10,000), pending receipt of the complete and accurate Std. 817;

Review the Std. 817. If it is determined to be complete and accurate, authorize payment of the withhold;

If the Std. 817 is late or incomplete, department must send the prime contractor a cure notice allowing at least fifteen (15) days, but not more than thirty (30) days, to meet the Certification of Payments to DVBE Subcontractors requirements;

If the prime contractor does not comply by the identified deadline, permanently deduct the withhold; and

Retain all records for a minimum of six (6) years.

EXPERIENCE MODIFICATION RATE (EMR) SUBMITTAL

The Contractor shall provide their current Workers Compensation Insurance Experience Modification Rate (EMR) to Mariposa County or proof of non-eligibility. If the EMR number exceeds one (1.00) at any time, Mariposa County at our sole discretion may terminate the Agreement within thirty (30) days of verifying the rate has exceeded one (1.00).

The Contractor shall provide their Occupational Safety and Health Administration (OSHA) lost time injury/illness incidence and OSHA recordable injury/illness incidence records at Mariposa County's request.

HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE (HAZWOPER) CERTIFICATIONS

The Contractor shall provide Mariposa County with Hazardous Waste Operations and Emergency Response (HAZWOPER) Certifications for the classifications required per Exhibit A – Scope of Work.

FEDERAL DEBARMENT CERTIFICATION:

The Contractor shall provide the User Agency a new Federal Debarment Certification form within five (5) business days from the User Agency request.

Response to Request for Services Mariposa County, California

MSA #5-22-99-33-04

August 18, 2022



TETRA TECH

Submitted Electronically

August 18, 2022

Subject: Response to Request for Services under Master Service Agreement #5-22-99-33-04

Dear Dallin Kimble and Mariposa County team:

Tetra Tech, Inc. (Tetra Tech) is honored to submit the enclosed proposal to provide assessment and monitoring of disaster debris and hazard tree removal services to Mariposa County (the County). The Tetra Tech team is the most experienced, qualified, and prepared to support the County and its communities affected by California wildfires and debris-generating events because:

We bring unparalleled experience nationally and throughout California to execute a successful program.

Since 2001, our team has assisted state and local governments with debris monitoring and hazardous tree removal monitoring efforts following catastrophic natural disasters. We have served as the ground-zero debris and hazardous tree monitoring consultant for over 320 clients affected by our nation's most devastating natural disasters, including California Wildfires for the past 6 years. **Collectively we have overseen and managed recovery of more than 160 million cubic yards (CY) of debris, 6.8 million tons of fire damaged structural debris and soil, and over 2.3 million hazardous trees** on behalf of our public sector clients in compliance with Federal Emergency Management Agency (FEMA) policies.

For CalRecycle and other federal and local California agencies, Tetra Tech has been contracted to provide project management and oversight of 13 major wildfire recovery efforts, including responses to the Erskine, Clayton, NorCal, Detwiler, Helena, Mendocino, Carr, Thomas, Camp, Northern Branch, and Dixie-Caldor wildfires. Additionally, as a sub-consultant to another firm, Tetra Tech performed site assessments and developed individual site reports regarding fire-damaged commercial properties as part of the Valley and Butte Fire recovery. As a result of our recent experience working directly for CalRecycle under the 2021 wildfire operation, our staff thoroughly understands the State's debris removal operations plan, scope of work, and standards. **Tetra Tech's Wildfire Standard Operating Procedures (SOPs) are Best-in-Class – many of which have been adopted by CalRecycle as Best Management Practices and used on other State of California Wildfire projects.**

Our vast footprint across California allows us to respond immediately.

With Tetra Tech disaster response and recovery experts located throughout the State of California, we can stage a full-scale mobilization upon notification of award. **Tetra Tech has more staff with wildfire Assessment and Management (A&M) experience than any other firm in the country.** Most recently, we deployed more than 1,100 staff for the Northern Branch project. At the height of the Camp Fire Response, more than 1,000 Tetra Tech staff were active. For the NorCal Fire response in 2017–2018, more than 600 Tetra Tech staff members were working on the field project team.

We are a trusted and proven resource to the State of California, our partners, and the local community. For our partners, we provide carefully considered opportunities for Small Businesses, Disabled Veteran Owned Businesses, women-owned businesses, and other subcontractors to equitably participate in project work. Tetra Tech provides comprehensive support to its subcontractors throughout the project lifecycle and we make a concerted effort to hire locally. These factors combined drive a clear result: **building capacity of local businesses to respond to current and future disasters.**

We provide turnkey service to the County's exact specifications with no learning curve.

Tetra Tech has performed a similar scope of work for the State of California (via CalRecycle) in response to multiple wildfires since 2016, therefore **there is zero learning curve in responding to this project.** Our firm understands the logistical challenges of working in the County's diverse terrain and are primed to adapt to any requirement as needed.

We have established SOPs that have been previously approved by prior State-run response missions. Our stringent SOPs are supported by an integrated quality assurance and quality control program that adheres to established compliance

Attachment: User Agreement -- Mariposa County Compiled for TT_compressed (TT Signed) (RES-2022-500 : Oak Fire Recovery Master

monitoring processes. In all, we implement compliant protocols from ramp-up to demobilization to provide truly turnkey and reliable service.

We've dedicated financial and operational resources to meet the County's needs.

As a publicly traded company headquartered in Pasadena, CA, **our firm will dedicate the necessary operational, logistical, technical, and financial resources to see this project reach a successful outcome.** Our project team has been carefully selected based on the requirements of the solicitation and are prepared to meet the immediate response needs, as well as long-term recovery needs.

As evidenced throughout this response, our firm thought through many of the logistical and technical challenges a large-scale program of this nature will encounter. Our team stands at the ready to mitigate these risks by assigning seasoned staff who are experienced with complex programs at key positions, leveraging technology to streamline operations, and oversight by our division and corporate leadership. Finally, with our cash reserves approaching \$1 billion and available credit facilities, Tetra Tech is financially well prepared to perform the work in a timely and cost-effective fashion.

Tetra Tech would be honored to serve as the County's disaster debris and hazard tree removal assessment and monitoring service provider. We are fully prepared to provide the high-quality service the County expects.

Sincerely,

Tetra Tech, Inc.



Jonathan Burgiel | Business Unit President, Tetra Tech Disaster Recovery

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1. Response to Request for Services

1.1 Contractor must acknowledge and respond to Mariposa County's Request for Services within twenty-four (24) hours of the request.

Tetra Tech has provided this response within 24 hours of the request received on August 17, 2022.

1.2 Contractor must respond and include Experience Modification Rate (EMR) documentation of one (1.00) or less or proof of non-eligibility as identified in Section 16 of the MSA.

Tetra Tech has an outstanding record of safety across our organization. As evidenced in the following pages, our Experience Modification Rate (EMR) for the past 3 years is:

- 10/1/2021 to 10/1/2022: 0.74
- 10/1/2020 to 10/1/2021: 0.77
- 10/1/2019 to 10/1/2020: 0.79

We understand that OSHA lost time injury/illness incidence and OSHA recordable injury/illness incidence records may be required at the User Agency request. Documentation for these records has also been provided as a proactive measure.

1.3 If the User Agency determines at its sole discretion that the Contractor's response is not acceptable, it may move to the next Ranked Contractor.

Tetra Tech acknowledges.

1.4 Should all Contractors within the same Region and Category fail to respond and/or provide services as required, a User Agency may request services from the Rank 1 Contractor in the next highest Category within the same Region, and so forth by Rank until services can be provided. If requesting services for Category 3 (1501+ APNs) where no next highest Category is available, Users may request services from any Rank 1 Contractor of Neighboring Region(s) that shares a border within the same Category. The selected Contractor rates shall apply.

Tetra Tech acknowledges.

1.5 User Agencies must notify the DGS-PD State Contract Administrator of a Contractor's failure to respond and/or provide services.

Tetra Tech acknowledges.

1.6 The Contractor must provide services within seventy-two (72) hours of accepting a request for services, unless otherwise specified by the User Agency

Tetra Tech acknowledges.



Aon Risk Insurance Services West, Inc.

Construction Services Group

September 15, 2021

Mr. Chad Smith, ARM, CPCU, CRIS
Corporate Risk Management Administrator
Tetra Tech, Inc.
3475 E. Foothill Blvd.
Pasadena, CA 91107

RE: NCCI Interstate Experience Modification for Tetra Tech Inc.

Dear Chad:

Please be advised that the NCCI Interstate Experience Modification for Tetra Tech Inc. for the policy periods listed below is as follows:

Effective Dates Listed Below:

10/1/2021 to 10/1/2022: 0.74

10/1/2020 to 10/1/2021: 0.77

10/1/2019 to 10/1/2020: 0.79

Please let me know if you have any questions.

Sincerely,

Ann G. Whisenhunt
Senior Account Specialist
213-630-3270

Aon Risk Insurance Services West, Inc.
707 Wilshire Boulevard, Suite 2600 • Los Angeles, California 90017 •
New USPS Mailing Address:
MSC# 17188, Aon, PO Box 19640, Irvine, CA 92623 •
tel: (213) 630-3270 • fax (847) 953-4529 License No. 0530733

Attachment: User Agreement -- Mariposa County Compiled for TT_compressed (TT Signed) (RES-2022-500 : Oak Fire Recovery Master

OSHA's Form 300A (Rev. 01/2004) Summary of Work-Related Injuries and Illnesses

Year 2019
U.S. Department of Labor
Occupational Safety and Health Administration

All establishments covered by Part 1910 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the log to verify that the entries are complete and accurate before completing this summary.

Form OSHA-300A (Rev. 01/2004)

Using the log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the log. If you had no cases write "0".

Employees (or their representatives) have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 300A or its equivalent. See 29 CFR 1904.30, in OSHA's Recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total number of cases	Total number of cases with job transfer or restriction	Total number of other cases
<u>0</u>	<u>1</u>	<u>1</u>	<u>0</u>
(C)	(B)	(D)	(E)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
<u>3</u>	<u>4</u>
(F)	(G)

Injury and Illness Types

Total number of:			
(1) Injury	<u>2</u>	(4) Poisoning	<u>0</u>
(2) Skin Disorder	<u>1</u>	(5) Hearing Loss	<u>0</u>
(3) Respiratory Condition	<u>0</u>	(6) All Other Illnesses	<u>1</u>

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 55 minutes per response, including time for reviewing the instructions, searching existing data sources, gathering the data needed, and completing and reviewing the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about this estimate of any aspect of the data collection burden, U.S. Department of Labor, OSHA Office of Statistics, Paper 19-344, 200 Constitution Ave. NW, Washington, DC 20210. Do not send the completed form to this office.

Establishment Information	
your establishment name	<u>Tetra Tech - US F&E</u>
Street	<u>2101 Lorton Way</u>
City	<u>Martinez</u> State: <u>FL</u> Zip: <u>32751</u>
Industry description (e.g., Manufacture of motor truck trailers)	
Standard Industrial Classification (SIC), if known (e.g., 333715)	
OR North American Industrial Classification (NAICS), if known (e.g., 336212)	
Employment Information	
Annual average number of employees	<u>409</u>
Total hours worked by all employees last year	<u>2,015,985</u>
Sign here	
Knowingly falsifying this document may result in a fine.	
I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.	
<u>[Signature]</u>	Director, Operations
Company executive	Title
<u>407-588-8184</u>	<u>1/30/2020</u>
Phone	Date

OSHA's Form 300A (Rev. 01/2004) Summary of Work-Related Injuries and Illnesses

Year 2020
U.S. Department of Labor
Occupational Safety and Health Administration

All establishments covered by Part 1904 must complete this Summary page, even if no injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries correctly. If you had no entries with "0".

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR 1904.35, in OSHA's Recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases

Total number of deaths	Total # of cases with days away from work	Total number of cases with job transfer or restriction	Total # of other recordable cases
<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
(1)	(4)	(3)	(4)

Number of Days

Total number of days away from work	Total number of days of job transfer or restriction
<u>34</u>	<u>01</u>
(6)	(5)

Injury and Illness Types

Total number of	(M)	(4)	(5)	(6)
(1) Injury	<u>0</u>	(4) Poisoning	<u>0</u>	
(2) Skin Disorder	<u>0</u>	(5) Hearing Loss	<u>0</u>	
(3) Respiratory Condition	<u>0</u>	(6) All Other Illnesses	<u>0</u>	

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Service, Paperwork Project (0182-0001), Washington, DC 20503. Send all other correspondence to the Office of Management and Enterprise Services, Paperwork Project (0182-0001), Washington, DC 20503.

Establishment information

Your establishment name: Tetra Tech - OBTID
 Street: 2395 Locust Way
 City: Alhambra State: CA Zip: 91804
 Industry description (e.g., Manufacturer of metal parts, painter)
Disruptive Technology and Public Assistance Consulting
 Standard Industrial Classification (SIC), if known (e.g., SIC 3333)
 NAICS, if known (e.g., NAICS 333310)

Employment information

Annual average number of employees: 300
 Total hours worked by all employees last year: 1,032,000

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have prepared this document and that to the best of my knowledge the entries are true, accurate, and complete.

Signature: _____
 Title: _____
 Date: _____

Signature: _____
 Title: _____
 Date: _____

Year 2021

U.S. Department of Labor
Occupational Safety and Health Administration

2. Project Response Plan

2.1 The Contractor shall prepare and submit a Project Response Plan. The Project Response Plan should demonstrate how the Contractor will implement both the Scope of Work of the MSA and address the specific requirements outlined in Mariposa County's Request for Service. The Project Response Plan is expected to include, but not be limited to, the following:

Tetra Tech has been at the forefront of the disaster debris monitoring industry for 25 years. We have assisted hundreds of state and local governments over the last 25 years with their response to our nation's most catastrophic natural disasters, including wildfires throughout the State of California since 2015. Through decades of experience, Tetra Tech has built the staff expertise, standard operating procedures, logistical capabilities, and technologies to handle the most difficult disasters.

Our fire disaster debris monitoring efforts have removed over **6.8 million tons of fire debris, as well as the demolition and debris removal of over 22,000 fire-damaged residential and commercial structures in the State of California.** We have provided project management and recovery oversight for some of the nation's largest wildfires. Throughout these projects, our team has monitored the removal of hazardous trees, conducted site surveys (including hazardous material, asbestos, archaeological, and biological) and environmental sampling, completed complex air monitoring and sampling activities, coordinated and monitored debris removal operations, monitored hauling/disposal operations, and provided extensive data management. The magnitude and nature of these events have allowed us to develop real-time data collection platforms, operational, and logistical methodologies that will be utilized for this project.

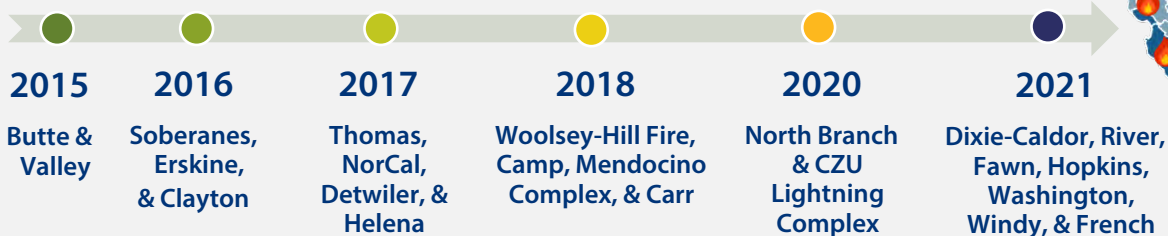
When it comes to wildfire recovery management experience, Tetra Tech has more experience than other disaster recovery firms, both in terms of absolute number of wildfire projects managed and the breadth of services provided to our wildfire recovery clients. Our team has assisted in the recovery from the most catastrophic wildfires in recent history, with millions of dollars in reimbursed funds.

Tetra Tech has provided the requested information within the following pages.

Tetra Tech provides best in class post-fire A&M services.

Our team has responded to 22 major wildfire disasters across 23 California Counties.

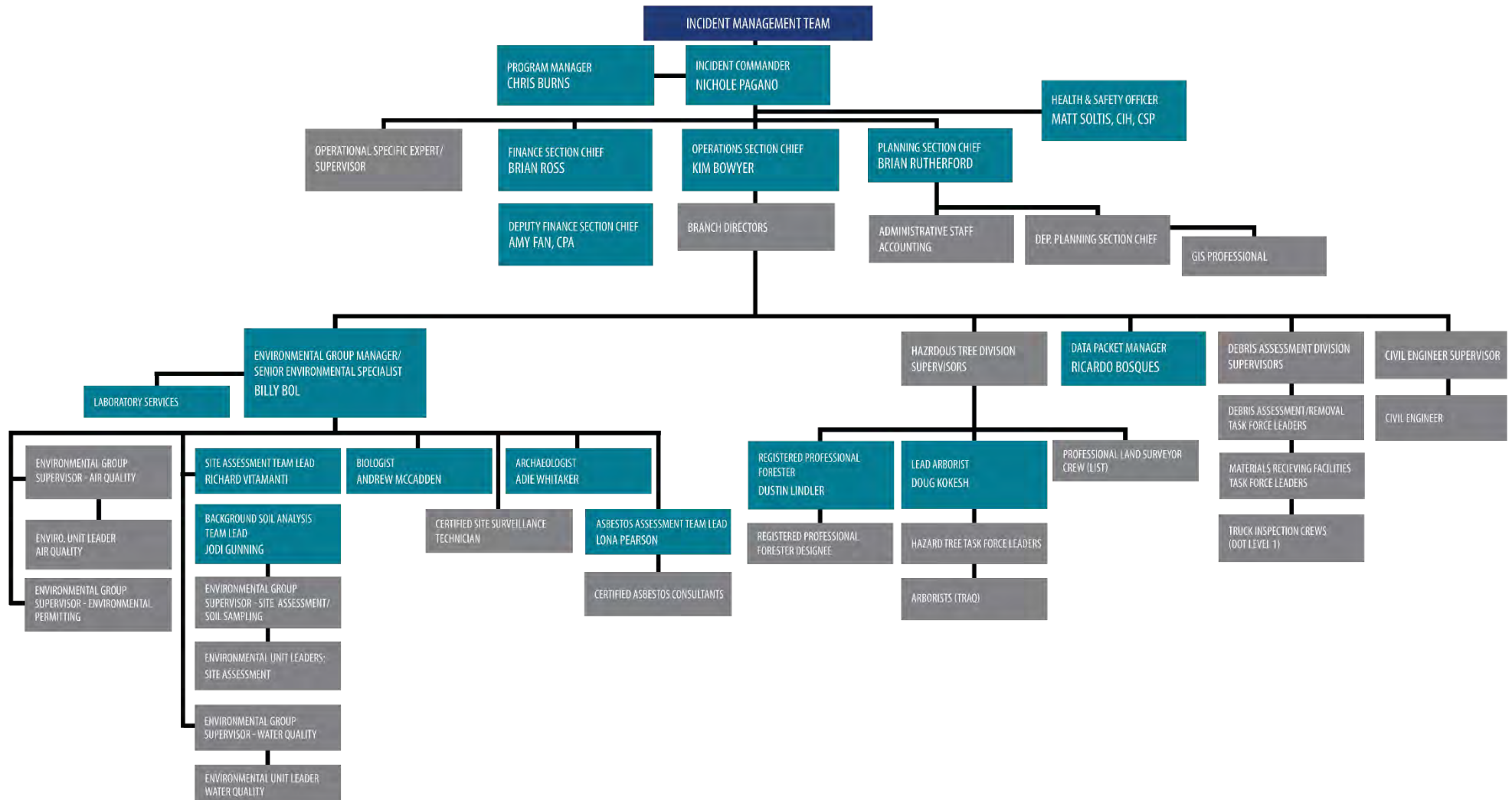
Tetra Tech has unmatched wildfire debris management experience with monitoring over 6.8 million tons of debris



2.1.1 Operation-specific organization charts

The organization structure is based on industry best practices and an understanding of geography and the distinct management responsibilities of each position. Our proposed organizational structure ensures orderly communication, distribution of information, effective coordination of activities, and accountability. Tetra Tech's project team can scale as needed, coordinate response, establish common processes for planning and managing resources, and adapt organizational structure to match the needs and complexities of projects. As indicated below, Tetra Tech has provided resumes for **key personnel** and is prepared to mobilize **additional staff**.

Project Organization Chart



2.1.2 Resumes of key personnel, as specified in the MSA Scope of Work

Tetra Tech has assembled a team of debris removal monitoring experts with direct experience responding to recent disasters. Our dedicated project management team is deeply familiar with the policies, procedures, and requirements associated with delivering successful wildfire recovery projects in California.

Key Personnel

Position	Resource
Program Manager	Chris Burns
Incident Commander	Nichole Pagano
Safety Officer	Matt Soltis, CIH, CSP
Planning Section Chief	Brian Rutherford
Data Packet Manager	Ricardo Bosques
Operations Section Chief	Kim Bowyer
Finance Section Chief	Brian Ross
Deputy Finance Section Chief	Amy Fan, CPA
Environmental Unit Manager/Senior Environmental Specialist	Billy Bol
Biologist	Andrew McCadden
Archaeologist	Adie Whitaker
Registered Professional Forester	Dustin Lindler
Site Assessment Team Lead	Richard Vitamanti
Asbestos Assessment Team Lead	Lona Pearson
Background Soil Analysis Team Lead	Jodi Gunning
Lead Arborist	Doug Kokesh

Tetra Tech has provided resumes for the above-listed individuals as Appendix 1.

2.1.3 Staffing plans and whether key personnel are currently engaged in similar projects under the MSA

Our team has demonstrated the ability to execute large and complex programs, recognize and understand challenges unique to wildfire recovery, and support California communities as a capable service provider. We thoroughly understand the requirements in the project Scope of Work as detailed in the MSA, and we are prepared to deliver these tasks with an appropriate level of commitment from our staff. **For our key personnel, this means 100% availability to complete the proposed scope of work.**

The proposed key team members were chosen specifically not only due to their functional expertise but also their availability to provide dedicated support to the tasks within the scope of work. Tetra Tech affirms that no key personnel are currently engaged in similar projects under the MSA, and will be 100% available to respond to the County's needs. Tetra Tech staff that have current commitments to other projects will be demobilized and reallocated to this scope of work as appropriate.

2.1.4 Project or staff specific conflicts of interest

Tetra Tech certifies that in the preparation and submission of this proposal, to the best of our knowledge, neither Tetra Tech, nor any employee, has a conflict of interest directly in connection with the services required in the County's RFS.

2.1.5 Certifications and/or registrations of personnel

Tetra Tech has mobilized more than 1,100 staff in compliance with the State's qualification, certification, and fit testing requirements. Our staffing procedures operate in lock-step with the State and County's requirements, resulting in seamless

and compliant deployment of staff with Hazardous Waste Operations and Emergency Response (HAZWOPER) certification and fit testing (in conjunction with full medical monitoring).

Our team possesses many of the key certifications necessary to provide quality technical services. Team members have completed numerous certification and training courses related to debris operations and emergency management, such as:

- Occupational Safety and Health Administration (OSHA) Disaster Site Worker Course
- OSHA 10-Hour Construction Safety Certification
- OSHA 40-Hour HAZWOPER Certification
- G-202 Debris Management
- ICS-100: Introduction to Incident Command System
- ICS-200: ICS for Single Resources and Initial Action Incidents
- ICS-300: Intermediate Incident Command System
- IS-120: Introduction to Exercises
- IS-547: Introduction to Continuity of Operations (COOP)
- IS-631: Public Assistance Operations I
- IS-632: Introduction to Debris Operations
- IS-634: Introduction to FEMA's Public Assistance Program
- IS-700: National Incident Management System
- IS-800: National Response Program

Relevant certifications and registrations of key personnel have been provided within Appendix 2.

2.1.6 Listing of subcontractors

Tetra Tech, as a large, multi-national firm with ample resources to complete most any project, is well acquainted with the practice of contracting with local businesses and small, minority-owned, and/or women-owned businesses included within 2 CFR 200.321 and within the MSA. By actively maximizing opportunities for SB participation, the local economy benefits significantly, often underdeveloped firms are promoted, and projects are cost-effective for our clients.

Tetra Tech has been involved in several major projects in which our clients established overall SB or other goals for subcontracting and workforce participation. As evidence of the Tetra Tech Disaster Recovery Division's commitment to local and minority participation in our projects, Tetra Tech received the City of Houston Goods and Services Prime Contractor of the Year Award at the 6th Annual Champions of Diversity Awards Ceremony. Our success in meeting and surpassing these goals illustrates our commitment to the design and implementation of effective and meaningful participation programs, resulting in exceeded project goals. **Since 2016, Tetra Tech has worked with 56 California-based and certified SB/MWDVBE firms, representing approximately \$47 million in subcontract value.**

We have identified the local and small businesses listed below with proven experience to provide trained personnel and support Tetra Tech on an as-needed basis. Upon mobilization, in conjunction with Tetra Tech's policy to embrace and utilize small and local businesses, **Tetra Tech will continue its efforts to identify pre-approved firms under the existing MSA and engage additional certified/local firms to participate under this RFS to the extent feasible and practical.** As stated in the RFS, a Bidder Declaration Form can be provided upon request.

Listing of Subcontractors

Subcontractor Name	Services	SB, MWDVBE	Cert #
Alpha Analytical, Inc	Laboratory	SB(Micro)	1025
Analytical Consulting Group, Inc.	Environmental Services	SB(Micro)	1242960
Area West Environmental, Inc.	Biologist	SB(Micro), SB-PW	32614
EMSL Analytical, Inc.	Laboratory	n/a	
Engstrom Inspection	DOT Truck Inspection	n/a	
Essel Technology Services, Inc.	Environmental Services	SB(Micro)	31857
Eurofins	Laboratory	n/a	
Far Western Anthropological Research Group, Inc.	Cultural and Historic Resources	n/a	
ForensisGroup, Inc.	Arborist/Env Consulting	SB	2025369
Guzi-West Inspection and Consulting, LLC	CAC/CSST	SB(Micro)	2017326

Subcontractor Name	Services	SB, MWDVBE	Cert #
Jefferson Resource Company, Inc	Forestry/TRAQ Arborist	WBE	13010036
Kleinfelder, Inc.	Biologist/Archaeologist	n/a	
Paxon Energy & Infrastructure Services	Forestry/TRAQ Arborist	WBE	17000575
Ross Infrastructure Development LLC	Finance/Accounting	SB(Micro), DVBE	1786614
Tommy's Water Truck Rentals, Inc	Water Truck (Dusk Control)	SB(Micro)	1283660
West Coast Water & Trucking, Inc	Water Truck (Dusk Control)	SB-PW	1207321
William Esparza Consulting Services	Environmental Services	SB(Micro), DVBE	2019925

Tetra Tech shall make a good faith effort to subcontract 25% of the total contract services to California Certified SBs through the combination of our Certified SB subcontractors. Additional information or certifications can be provided upon request.

2.1.7 Special requirements including conflicts of interest

As detailed above in Section 2.1.4, Tetra Tech is not aware of any relevant facts or circumstances that could give rise to an actual or potential personal conflict of interest related to the services requested. If an actual or potential personal conflict of interest is identified during the performance of any work assignment, we will immediately make full disclosure to the County.

2.1.8 Pricing offered by the Contractor shall not exceed the rates specified in Exhibit B.1 – Rate Sheet for the Category and Region selected by the User Agency.

Tetra Tech affirms that the rates utilized under this RFS will align with the rates established under MSA #5-22-99-33-04. The rates established for Category 1, Region 1 have been provided below for reference.

Rate Schedule: MSA #5-22-99-33-04 Category 1, Region 1

Item	Units	Rate
Program Manager	Per Hour Per Person	\$174.90
Incident Commander (IC)	Per Hour Per Person	\$148.40
Health and Safety Officer	Per Hour Per Person	\$111.30
Operations Section Chief (OSC)	Per Hour Per Person	\$111.30
Registered Professional Forester (RPF)	Per Hour Per Person	\$148.40
Registered Professional Forester (RPF) Designee	Per Hour Per Person	\$132.50
Arborist (TRAQ)	Per Hour Per Person	\$127.20
Branch Director (BD)	Per Hour Per Person	\$102.82
Division Supervisor (DS)	Per Hour Per Person	\$90.10
Task Force Leader/ Debris Assessments or Removal Monitor	Per Hour Per Person	\$73.14
Task Force Leader/ Hazard Tree Assessments or Tree Removal Monitor	Per Hour Per Person	\$76.32
Task Force Leader/ Materials Receiving Facilities	Per Hour Per Person	\$79.50
Certified Asbestos Consultant (CAC)	Per Hour Per Person	\$143.10
Certified Site Surveillance Technician (CSST)	Per Hour Per Person	\$121.90
Environmental Group Supervisor/ Water Quality	Per Hour Per Person	\$143.10
Environmental Group Supervisor/ Site Assessment/ Soil Sampling	Per Hour Per Person	\$132.50
Environmental Group Supervisor/ Air Quality	Per Hour Per Person	\$127.20
Environmental Group Supervisor/ Environmental Permitting	Per Hour Per Person	\$132.50
Environmental Group Manager/ Senior Environmental Specialist	Per Hour Per Person	\$148.40
Operational Specific Expert	Per Hour Per Person	\$174.90
Operational Specific Expert Supervisor	Per Hour Per Person	\$201.40

Environmental Unit Leader/ Water Quality BMPs	Per Hour Per Person	\$100.70
Environmental Unit Leader/ Site Assessment/ Soil Sampling	Per Hour Per Person	\$106.00
Environmental Unit Leader/ Air Quality	Per Hour Per Person	\$121.90
Data/ Packet Manager	Per Hour Per Person	\$79.50
Planning Section Chief (PSC)	Per Hour Per Person	\$121.90
Deputy Planning Section Chief (DPSC)	Per Hour Per Person	\$90.10
GIS Professional	Per Hour Per Person	\$58.30
Finance Section Chief (FSC)	Per Hour Per Person	\$137.80
Deputy Finance Section Chief (DSFC)	Per Hour Per Person	\$90.10
Field Accounting and Administrative Staff	Per Hour Per Person	\$73.14
Office Accounting and Administrative Staff	Per Hour Per Person	\$66.78
Senior Biologist	Per Hour Per Person	\$143.10
Biologist	Per Hour Per Person	\$121.90
Senior Archaeologist	Per Hour Per Person	\$159.00
Archaeologist	Per Hour Per Person	\$121.90
Professional Land Surveyor Crew	Per Surveyor Crew Per Day	\$5,300.00
Truck Inspection Crews (DOT Level 1)	Per Inspection Crew Day	\$2,968.00
Civil Engineer	Per Hour Per Person	\$153.70
Civil Engineer Supervisor	Per Hour Per Person	\$206.70
Environmental Site Assessment (ESA) Report	Per ESA Report	\$954.00
Rope Access Plan Preparation and Training	Per Plan Event	\$21,200.00

3. Appendix 1: Resumes



Chris R. Burns

Program Manager

17+ YEARS OF
EXPERIENCE

Areas of Expertise

Program / Project Management

Wildfire Fire Assessment

CDBG-DR

Emergency Response

Oil Spill Response

Lead and Asbestos

Radiation

Grant Experience

FEMA PA

CDBG-DR

HMGP

Key Training/Certifications

40-hour OSHA HAZWOPER with 8-hour Refreshers

Incident Command System Training (100, 200, 300, 301, 400, 700, 800)

IATA Dangerous Goods Shipping Certified

EPA Air Monitoring for Hazardous Materials 165.4, 2007 and 2005 EPA RCRA Compliance and Enforcement Workshop

EPA Sampling for Hazardous Materials 165.9

Education

B.S., Fisheries and Wildlife Science, Penn State University - 2003

EXPERIENCE SUMMARY

Mr. Burns has more than 17 years of experience providing management, scientific, and technical consulting services, including private and public sector clients under a variety of technical assistance, CDBG, emergency response, emergency management, planning, and training and exercise programs. Mr. Burns has held various positions throughout his career, including Program Manager, senior project manager, emergency preparedness and response coordinator, technical lead, and incident commander. He has experience overseeing multi-disciplinary teams made of internal and subcontracted staff resources and has managed projects and complex programs with values in excess of \$70 million.

RELEVANT EXPERIENCE

U.S. EPA START Program Manager (January 2020 – Present)

Mr. Burns is responsible for ensuring compliance with terms of the contract and work assignments; cost control, monitoring work schedules, budgets, and developing/approving cost estimates; providing monthly status reports on accomplishments, budgets and contract issues; and implementation of HSE policy and procedures to ensure field compliance.

U.S. EPA START Readiness Coordinator and Deputy Program Manager, (2014- January 2020)

Mr. Burns serves as the US EPA Region 5 readiness Coordinator and Deputy Program Manager. Mr. Burns manages all aspects of deployment readiness and tracks deployment readiness for a 40-person core team of responders and 300 additional reach-back staff. Coordinates on-call schedules and deployments for more than 150 short- and long-term emergency response actions across the six-state region, with mobilization offices and prepositioned staff in Chicago, Minneapolis, Traverse City, Detroit, Cleveland, Cincinnati, Indianapolis, Milwaukee, Green Bay, and St. Louis. Manages the field schedule for the START contract and office employees, with as many as 150+ simultaneous projects with durations ranging from 1 day to 2 years. Manages a preparedness training program, involving approximately 10 training courses and exercises annually for contractor staff. Develops and presents training to keep personnel current on technological advances, data management techniques, and technical disaster management skills necessary to respond to any type of manmade or natural disaster.

Greenfield Trust Program Manager (March 2018 – Present)

Mr. Burns is responsible for overall work performance for all Tetra Tech Greenfield Trust projects ranging in cost from \$80,000 to \$4 million. Tetra Tech is responsible for large complex remedial design, modeling, implementation, and assessment. Mr. Burns is responsible for overall management of several project managers completing this work across the country.

California Wildfire Environmental Program Manager (October 2016 – Present)

Mr. Burns has served in management roles overseeing in the field environmental services conducted on 11 of the 12 past California Wildfires. During these responses Mr. Burns has lead the setup, coordination, and overall management of assessing damage, hazardous materials surveys, air monitoring, asbestos assessments, sample collection, and report preparation. Mr. Burns also manages all environmental logistics and staff coordination on these projects.

Camp Fire Incident (January 2019 – Present)

Incident Commander, responsible for overall completion of all debris and environmental work related to the hazardous material removal of over 13,000 parcels in total located in Butte County California. Task under this contract include debris removal monitoring, air sampling and monitoring (community and personal), soil sampling and evaluation, site assessment, traffic management, and documentation, financial tracking and invoice reconciliation, data management, erosion plan review and oversight of implementation, and health and safety.

Carr and Mendocino Complex Fire Incident (August 2018 – January 2020)

Incident Commander, responsible for overall completion of all debris and environmental work related to the hazardous material removal of over 1300 parcels in total located in Shasta and Lake Counties. Task under this contract include debris removal monitoring, air sampling and monitoring (community and personal), soil sampling and evaluation, site assessment and documentation, financial tracking and invoice reconciliation, data management, erosion plan review and oversight of implementation, and health and safety.

Thomas Fire Incident (January 2018 - Decemebr 2018).

Incident Commander, responsible for overall completion of all debris and environmental work related to the hazardous material removal of over 700 parcels in Ventura County. Task under this contract include debris removal monitoring, air sampling and monitoring (community and personal), soil sampling and evaluation, site assessment and documentation, financial tracking and invoice reconciliation, data management, erosion plan review and oversight of implementation, and health and safety.

Florida, Texas, South Carolina, North Carolina CDBG Programs (March 2018 - January 2020)

Mr. Burns serves as an Environmental Inspection Program Manager for the Lead Based Paint Risk Assessors, Asbestos Inspections, and all other environmental inspections covered under these three CDBG Programs. Mr. Burns is responsible for overall management of over 20 lead-based paint risk assessors completing risk assessment throughout all three states in relation to Hurricane Irma and Matthew.

Restore Louisiana Program (RELA)-CDBG-DR (2017 - July 2018)

Mr. Burns served as an Environmental Inspection Program Manager for the Lead Based Paint Risk Assessors following HUD Guidelines. Mr. Burns is responsible for overall management of 20 lead-based paint risk assessors completing risk assessment throughout Louisiana in relation to the floods of 2016. During this program Tetra Tech completed over 6,000 lead-based paint risk assessments in under 1 year.

Northern California (NORCAL) Wildfire Response (November 2017-September 2018)

Environmental Program Manager responsible for environmental portion of work associated with the cleanup of over 8,000 homes. Responsible for hazard assessments on each parcel, background soil sampling and confirmation soil sampling, air sampling and monitoring, and OSHA personal air sampling. Mr. Burns is also responsible for overall coordination, staffing, and logistics for this four-county response, overseeing over 100 staff in the field collecting data.



Nichole L. Pagano

Incident Commander

17 YEARS OF
EXPERIENCE

2 DISASTERS

Areas of Expertise

Project Management

Debris Removal Management

Data Analysis

Budget Tracking

Client Coordination

Key Training/Certifications

Certified Professional Geologist – WA

HAZWOPER 8-Hour Refresher

Education

SUNY College at New Paltz, Bachelor of Science in Geology, 2005

EXPERIENCE SUMMARY

Ms. Pagano is a Project Manager and Principal Geologist with over 15 years of experience in environmental consulting and currently manages sites for government, mining, rail, and manufacturing clients.

RELEVANT EXPERIENCE

Project Manager

Hazard Tree Removal Management for the Camp Fire | CalRecycle, Paradise, California

Project Manager for hazard tree removal assessment and management services for an estimated 150,000 trees. This role included coordination and management of an Arcadis incident management team and technical staff including registered professional foresters, TRAQ certified arborists, biologists and archaeologists. Coordinated with town, county, state and federal agencies.

Woolsey-Hill Fire | CalRecycle, Malibu, California

Project Manager for emergency response effort, including debris removal management and environmental sampling for approximately 1,000 burned residential properties. The field effort had approximately 180 field staff supporting the effort. Coordinated with town, county, state and federal agencies. *Based on exemplary work on this project, Nichole was awarded Project Star of the Month (November 2019), an internal Arcadis U.S. award. She was honored for handling unexpected requirements by working closely with the field team to develop training plans, daily reporting templates, an improved QC process, and tracking of staff performance.*

Lead Residential Sampling Program | California Dept. of Toxics Control, East Los Angeles, California

Project Manager for soil and paint sampling of 3,565 homes over 9 months in East Los Angeles for potential lead impacts deposited by aerial emissions. Over 37,000 soil samples were analyzed by XRF technology and by conventional methods according to EPA 6200. A cost-effective reporting process was developed using digital data collection and task management software collecting real-time on tablets in the field.

Environmental Compliance and Construction Oversight | Cleveland-Cliffs Mining, Northern Minnesota

Project Manager for environmental and construction related work, including feasibility studies for mine expansion and tailing disposal and management, construction oversight of a new processing facility, groundwater evaluations.

Remedial Operations and Maintenance | Union Pacific Railroad, Northern Idaho

Project Manager for two superfund sites associated with heavy metal impacts to soil and surface water due to the use of slag as ballast material. 80 miles of rail-line was converted to a multi-use pedestrian trail known as the Trail of the Coeur d'Alene. Current activities include routine inspections of the trail and associated repairs to the cap.

Train Collision and Derailment | Confidential Rail Client, Tacoma, Washington

Project Manager for an emergency response to a train collision and subsequent release of 1,200 gallons of diesel fuel. Most of the impacted soil was removed from the site and then a treatment system was installed as a remedial action.

Train Derailment | Confidential Rail Client, Eastern Washington

Project Manager for an emergency response effort to a train derailment and release of multiple contaminants of concern. The derailment occurred in a remote area and involved removal of tank cars from a tunnel and ravine. The potentially impacted soil was excavated and remaining soil was treated to remove the contaminants of concern.

Time Critical Removal Actions | Confidential Mining Client, Northport, Washington

Associate Project Manager for the Time Critical Removal Actions at the Upper Columbia River Superfund site, focusing on the removal of high concentrations of lead and arsenic in residential soils. The scope included targeted removal and restoration of 28 units on 15 properties, covering an excavated area of 240,000 square feet. Staff were mobilized to the remote area of Northeast Washington and work began within 6 weeks of project award. 7,741 tons of soil were removed from the properties. A combination of XRF technology and laboratory confirmation sampling was conducted to confirm soil was removed to the action levels at each property. Properties were restored to property owner specifications and the project was completed on time and under budget.

Metals Study - Ecological Risk Assessment | Confidential Mining Client, Northport, Washington

APM for an extensive soil and sediment study. Developed, implemented and managed the field program and assisted in project management activities; including costing, budget tracking, project planning, developing and tracking schedules, health and safety preparation and tracking. 46 Arcadis field staff were mobilized to a remote area in northeast Washington with a month notice to implement the soil study. Over 6,000 samples were collected along the Upper Columbia River over two months. Sediment and soil media was collected and analyzed for metals and other constituents of concern. Planning, implementation and reporting involved oversight and coordination with the Environmental Protection Agency, Washington State Department of Ecology (Ecology), local Tribal Nations and the public.

Site Assessment | Georgia Pacific, Camas, Washington

Project Manager and technical lead for a multiple soil and groundwater investigations. These investigations were an emergency response to a few releases of black liquor products and diesel. Soil and groundwater were assessed to determine the extent of the impacts and in each investigation the area of impacts were determined, and the additional impacted soil was removed. Worked within ecology regulations to implement appropriate measures at the site.

Residential Soil Assessment/Remediation | United States Coast Guard, Seattle, Washington and Carquinez, California

Associate Project manager for a creosote vapor study of a berthing building on a wharf in 2015. A toxicology study and human health risk assessment were conducted as a result of the study. Associate Project Manager of a site assessment and implementation of a soil removal for a government housing property with lead impacts to soil. An XRF analyzer was used to support human health risk assessment and clean-up boundaries. Multiple phases soil removal and confirmation sampling occurred.

Remedial Investigation and Human Health Risk Assessment | Confidential Pulp and Paper Client, St. Helens, Oregon

Technical hydrogeologic and sediment evaluations for potential impacts to upland, lowland and in-water areas of a former paper mill facility. A feasibility study of impacted sediment material occurred.

Yellowstone River Sediment Investigation | Confidential Oil and Gas Client, Billings, Montana

Managed and designed a sampling effort for an emergency response to a petroleum product release to surface water. Sediment and soil data was collected to identify the extent of impacts along 500 miles of the Yellowstone River. Performed data analysis and evaluation and developed a complex data analysis report which identified focus areas for remedial implementation. Worked directly with the USEPA and the public to access lands impacted by the release.

Site Assessment | Confidential Oil and Gas Client, Valloy, Norway

Associate Project Manager for the evaluation of impacted sediment associated with the release of acid tar associated with the former manufacturing activities at the site. A sediment sampling investigation of the ocean floor was conducted and biological testing was performed within the fjord. Geotechnical design was performed which included the installation of a sea wall as

unusual hazards were present at the site such as hydrogen sulfide gas, unexploded ordinances, working over water, sea diving, etc.

Remediation | Confidential Oil and Gas Client, Arizona, California, Nevada and Oregon

Management of many contaminated gas station and bulk plant sites. The scope included site investigations, remedial system installations, operations and maintenance and site closures.

RCRA, CERCLA, VCP and Portland Harbor Superfund | BNSF Railway Company, Oregon and Washington

Project Manager of three former rail yard sites and one former derailment site. Managed the development of site assessment plans for excavations, soil studies, and long-term groundwater monitoring plans. Aided in allocation activities and investigations for Portland Harbor environmental impact assessment. Field duties included soil sampling, groundwater monitoring, observation of monitoring well installation and abandonment. Contributed to future remediation site plans and aided in the development of site assessment workplans and JARPA permitting of wetland areas.

Assessment/Remediation | San Diego and Lake Elsinore, California

APM and technical lead for the evaluation of petroleum products in fractured bedrock and fault zones. Conducted extensive studies at the sites which include soil, bedrock, groundwater, soil vapor and indoor air evaluations and hydrogeologic testing and analyses in preparation for remedial design and implementation. Developed groundwater monitoring programs and remediation operations and maintenance programs. Worked directly with the California Regional Water Quality Control Board (CARWQCB) to develop aggressive assessment and clean-up plans and site-specific risk-based screening levels and standards to address abnormal conditions and move the sites toward closure.

Assessment/Remediation | Confidential Client, California

CPM for multiple sites with petroleum hydrocarbon contaminated media and hydrogeologic focused assessments. Oversees site assessment, remedial implantation in an effort to develop robust conceptual site models in an effort to drive projects to closure. Communicates regularly with the CARWQCB, local oversight programs and multiple stakeholders and is well versed in California risk-based standards and low threat closure criteria. APM for maintenance dredging site in San Francisco. Yearly dredging and sample analysis of large wharf in San Francisco Bay.



Matt Soltis, CIH, CSP, FAIHA

Health and Safety Officer

EXPERIENCE SUMMARY

Mr. Soltis is an occupational safety, health and environmental professional with over 30 years of professional experience. Mr. Soltis has overseen Tetra Tech's Wildfire Air Program since 2015. Most recently, he served as Project Certified Industrial Hygienist for the CalRecycle California Camp Fire recovery efforts. This support has included developing comprehensive air monitoring and sampling plans to assess air quality during debris removal operations for residential, commercial, and industrial properties.

Mr. Soltis is dual-certified in comprehensive practices of occupational safety and industrial hygiene (CSP and CIH) and he has achieved national recognition in his areas of expertise by the American Industrial Hygiene Association, having been elected as a Fellow (FAIHA) of that organization, an honor that is bestowed upon only the top 3% of CIHs worldwide. He has provided technical and management services to a wide diversity of clients both in the United States and overseas.

As the Vice President of Health and Safety, responsible for instituting proactive programs and procedures for effective risk management by integrating safety and health into all business aspects (from initial business pursuits through to project performance and review). He is also responsible for the development, implementation and management of programs and procedures designed to protect the safety and health of staff and resources, including such elements as employee training, medical surveillance, project-specific health and safety planning, accident intervention and prevention, incident case management, root cause analysis incident investigations, and others. As a measure of the effectiveness of these programs and procedures, the organization has achieved and maintained an excellent, long-term record of health and safety performance and regulatory compliance. This is evidenced by excellent metrics including injury and illness rates, Workers Compensation EMRs and associated claims costs, receipt of multiple National Safety Council awards, and other indicators.

Previously, Mr. Soltis served as the Company Health and Safety Program Manager for several large, multi-million contracts. In that capacity, responsibilities have included providing oversight and approval for the performance of efforts by Tetra Tech personnel, as well as those performed by team and lower-tier contractor organizations. Mr. Soltis also served in this Health and Safety Manager role for multiple large contracts for the Navy, the US Corps of Engineers, and the National Guard Bureau.

RELEVANT EXPERIENCE

Project CIH

CalRecycle – Multiple Sites in California

As the Project CIH, Mr. Soltis provided consultation services for debris removal solutions for properties destroyed by the Camp Fire Incident in Butte County, CA. This support included developing comprehensive air monitoring and sampling plans to assess air quality during debris removal operations for

YEARS OF EXPERIENCE

30 years

EDUCATION

B.S., Industrial Safety Sciences, Indiana University of Pennsylvania, 1983

TRAINING/CERTIFICATIONS

- Certified Industrial Hygienist, Comprehensive Practice, American Board of Industrial Hygiene, Cert. No. 6484; 1994.
- Certified Safety Professional, Comprehensive Practice, Board Certified Safety Professionals, Cert. No. 9206; 1989.
- Accident Investigator, DOE, NASA, NRC; 1986.
- Accredited Lead Risk Assessor and Lead Inspector, Act 44 PA Code, October 2001 (Cert. Nos. PTA 01-33-7678 and PTA 01-32-7656).
- Accredited Lead Supervisor, PTA Inc.; 2005.
- Accredited Asbestos Inspector, Professional Service Industries, Cert. No. 7PSI15973; 1993.

AREA OF EXPERTISE

- Health and Safety Programs
- Industrial Hygiene
- Occupational Safety
- Safety Engineering

residential, commercial, and industrial properties. As part of that planning effort, he provided input and IH counsel to CalRecycle and multiple California State and County Agencies to establish acceptable air quality values and indices for substances including volatile organic substances, lead, mercury and other metals, asbestos, PCBs, particulates, and others. This support has also included evaluating thousands of air sampling and air monitoring results and the preparation of hundreds of letters presenting residents and owners with summary results of the air sampling and monitoring.

Certified Industrial Hygienist for Asbestos, Lead, Mold, and Indoor Air Quality

United States Postal Services – Nationwide US Locations

Mr. Soltis provided industrial hygiene consultation services including reviewing projects with environmental/safety aspects. This has included providing assistance to facility lessors performing abatement and/or abatement contractors employed by owners of leased facilities to perform abatement services, including communication of USPS abatement requirements and work plan design elements. This has also included reviewing abatement work plans, providing industrial hygiene consultation services to USPS management, and providing direction and approval to many abatement contractors. To date, support on this project has included reviewing over 150 abatement contractor work plans, reviewing asbestos sampling results from over 200 surveys, preparing technical specifications for abatement work, and advising the USPS on federal and state regulatory matters.

Project Manager (2019 - Present)

Mold, Lead-Based Paint Assessments at Residential Properties on US Military Installations; Balfour Beatty Investments, LLC

Assigned and managed staff to this large commercial entity that manages and operates residential properties at over 40,000 properties at USDoD military installations in the US. This work has included on-site Project Management for mold inspection and remediation activities at nearly 100 residents within the West Point Military Academy in New York, mold inspections at dozens of properties at Whiteman Air Force Base in Missouri, and for lead based paint assessments at Ft. Bliss in Texas.



Brian Rutherford

Planning Section Chief

20+ YEARS OF
EXPERIENCE

Areas of Expertise

Emergency Planning, Response and Recovery

Continuity of Operations Planning

Debris Management

Hazard Mitigation

Regional Coordination

Training and Exercises

Public Health Preparedness

Infectious Disease Planning

Meeting Facilitation

Public Information

Key Training/Certifications

Professional Continuity Practitioner

FEMA Public Assistance Program and Eligibility

FEMA Emergency Management Institute: Personal Development Series

Homeland Security Exercise Evaluation Program

National Incident Management System 700

Incident Command System 100, 200, 300, 400

National Response Plan 800

Debris Management

Fatalities Management

40 Hour HAZWOPER and refresher

Public Information

Hazard Mitigation

Education

Bachelor of Business Administration,
University of Houston-Downtown,
2002

EXPERIENCE SUMMARY

Mr. Brian Rutherford has over 20 years of emergency management experience. His areas of expertise include disaster debris management, continuity of operations, emergency planning, mitigation, and recovery.

Mr. Rutherford has been involved in a wide range of emergency management planning and response projects. Some of these include: disaster debris management planning and response, public health emergency plan development, continuity of operations planning, infectious disease planning, plan assessments, public information plan development, hazard mitigation planning, hurricane planning and response, wildfire response, flooding response, training design and meeting facilitation. Mr. Rutherford is also experienced in the design and evaluation of exercises following Homeland Security Exercise and Evaluation Program principles.

Prior to joining our team, Mr. Rutherford served as a public health planner for the Galveston County Health District in Texas. His responsibilities included coordinating public health preparedness activities, overseeing the county's Strategic National Stockpile program, developing emergency plans, coordinating exercises, conducting training, and organizing conferences. While there, he also helped coordinate the public health response to several emergencies, including Hurricane Rita, Hurricane Humberto, and the BP explosion in Texas City.

Mr. Rutherford also held a position as an information specialist for the Texas Department of State Health Services, where he was responsible for coordinating responses to media inquiries, public health preparedness planning, and response to public health emergencies.

RELEVANT EXPERIENCE

Project Manager (February 2022 – April 2022)

Sarasota County, Florida | Disaster Debris Management Training

Mr. Rutherford was the project manager and trainer in a project to train Sarasota County staff in planning, operations, public information, and continuity of operations in response to a debris generating disaster.

Project Manager (August 2020 – Present)

Marin County, California | Disaster Debris Management Planning

Mr. Rutherford is managing a project to develop disaster debris management plans for Marin County, California, develop a disaster debris plan template for other counties in the region, conduct training and exercises.

Project Manager (July 2020 – Present)

Burleson, Texas | Disaster Debris Management Planning

Mr. Rutherford is managing a project to develop a disaster debris management plan and provide analysis of debris management sites for Burleson, Texas.

Project Manager (March 2020 – Present)

Brazoria County, Texas | Disaster Debris Management Planning

Mr. Rutherford is managing a project to update the disaster debris management plan and provide analysis of debris management sites for Brazoria County.

Project Manager (February 2020 – Present)**City of Culver City, California | Disaster Debris Management Planning**

Mr. Rutherford is managing a project to develop disaster debris management plans for the City of Culver City, California

Project Manager (February 2020 – September 2020)**Walton County, Florida | Hazard Mitigation Plan Update Planning**

Mr. Rutherford managed a project to update the hazard mitigation plan for Walton County, Florida.

Planner (November 2019 – August 2020)**San Mateo County, California | Disaster Debris Management Planning**

Mr. Rutherford was the lead planner in a project to develop a disaster debris management plan for San Mateo County, California.

Consultant (October 2019)**Harris County, Texas | Disaster Recovery Housing Program**

Mr. Rutherford assisted in a project to assess the Community Development Block Grant – Disaster Recovery (CDBG-DR) housing program for Harris County, Texas in response to Hurricane Harvey.

Project Manager (March 2018 – Ongoing)**City of Bellevue, Washington | Disaster Debris Management Planning**

Mr. Rutherford is coordinating with Perteet, Inc. to develop disaster debris management plans and evaluate debris management sites to speed recovery from a debris generating incident for the City of Bellevue, Washington.

Planner (April 2018 – November 2018)**City of Miami, Florida | Disaster Debris Management Planning**

Mr. Rutherford assisted in a project to update the disaster debris management plan for the city of Miami, Florida. In addition to updating the plan, Mr. Rutherford was also involved in developing a scope of work for debris removal contractors that will be procured to by the city following a disaster.

Planner and Facilitator (September 2019 – February 2020)**Southeast Pennsylvania Regional Task Force | Tabletop Exercise**

Mr. Rutherford coordinated with Bucks County, Chester County, Delaware County, Montgomery County, and the City of Philadelphia, to develop and conduct a debris management tabletop exercise.

Trainer and Exercise Facilitator (September 2019 – December 2019)**Metro Boston Homeland Security Region | Training and Tabletop Exercise**

Mr. Rutherford coordinated with the cities of Boston, Brookline, Chelsea, Cambridge, Everett, Quincy, Revere, Somerville, and Winthrop, to develop and facilitate training and conduct exercises in disaster debris management.

Planner (August 2019 – Ongoing)**City of Sugar Land, Texas | Hazard Mitigation Plan Update Planning**

Mr. Rutherford assisted in a project to update the hazard mitigation plan for the City of Sugar Land, Texas.

Project Manager (April 2019 – October 2019)**Debris Management Webinars and Workshop**

Mr. Rutherford managed a project to develop two webinars and a workshop for the Houston – Galveston Area Council jurisdictions. The webinars and workshop provide guidance in response to wildfires, tornadoes and terrorism incidents. They also provided updates in Federal guidance, laws, and best practices in debris management. In addition, Mr. Rutherford prepared a report highlighting disaster debris and its effect on the lifespan of area landfills.

Project Manager (November 2018 – March 2019)**City of Livermore, California | Disaster Debris Management Planning**

Mr. Rutherford managed a project to develop disaster debris management plans for the City of Livermore, California.



Ricardo Bosques

Data Packet Manager

6+

YEARS OF
EXPERIENCE

9

DISASTERS

8.2M+

CBYS
DEBRIS
REMOVED

Areas of Expertise

Disaster Debris Management

Data Collection, Utilization, and
Validation

Data Management

Report designs

Reimbursement Policies and
Procedures

Public Relations

Invoice Reconciliation

Disasters

5278 California Camp Fire

5259 California Carr Fire

5192 California Detwiler Fire

4332 Hurricane Harvey

4286 Hurricane Matthew

4272 Severe Storms and Flooding

4269 Severe Storms and Flooding

4240 CA Wildfires

4245 Texas Severe Storms

Education

University of Texas at San Antonio,
Bachelor of Science

Biology with a concentration in
Microbiology/Immunology
San Antonio, TX, May 2013

EXPERIENCE SUMMARY

Mr. Bosques is a regional data manager and ADMS technology specialist for Tetra Tech, Inc., where his understanding of Federal Emergency Management Agency (FEMA) eligibility and documentation requirements for public assistance debris removal programs have aided him in quality control and oversight of multiple projects. As a regional manager Mr. Bosques is responsible for the implementation of Tetra Tech's *RecoveryTrac*™ ADMS technology as well as oversight and management of field data managers and invoice analysts.. Mr. Bosques and Tetra Tech have focused on providing complete auditable datasets that maximize reimbursement and are project worksheet ready.

Mr. Bosques also has an in-depth understanding of our *RecoveryTrac*™ Automated Debris Management System (ADMS). As such, he can support the implementation of ADMS in the field as well as establish quality assurance and project reporting

RELEVANT EXPERIENCE

Senior Data Manager (January 2022 - Present)

Various Locations | Kentucky Severe Winter Storm

Mr. Bosques handled overall project setup through Tetra Tech's ADMS (*RecoveryTrac*™), created and oversaw specialized reporting requested by the clients, handled debris contractor invoicing data and documentation, provided client demonstrations of the geoportal GIS tracking system, and sat in on initial project meetings with clients to answer and advise on any questions regarding their FEMA compliance pertaining to the debris removal operations and data tracking.

- **Virginia Department of Transportation:** Culpeper District, Fredericksburg District, Richmond District

Senior Data Manager (December 2021 - Present)

City of Houston, Texas | Lake Houston Silt Removal

Mr. Bosques handled overall project setup through Tetra Tech's ADMS (*RecoveryTrac*™), created and oversaw specialized reporting requested by the clients, handled debris contractor invoicing data and documentation, provided client demonstrations of the geoportal GIS tracking system, and sat in on initial project meetings with clients to answer and advise on any questions regarding their FEMA compliance pertaining to the debris removal operations and data tracking.

Senior Data Manager (December 2021 - Present)

Various Locations | Kentucky Severe Storms & Tornadoes (DR-4630)

Mr. Bosques handled overall project setup through Tetra Tech's ADMS (*RecoveryTrac*™), created and oversaw specialized reporting requested by the clients, handled debris contractor invoicing data and documentation, provided client demonstrations of the geoportal GIS tracking system, and sat in on initial project meetings with clients to answer and advise on any questions regarding their FEMA compliance pertaining to the debris removal operations and data tracking.

- **Kentucky:** Bowling Green, Warren County

Senior Data Manager (August 2021 - Present)

Various Locations | Hurricane Ida

Mr. Bosques handled overall project setup through Tetra Tech's ADMS (RecoveryTrac™), created and oversaw specialized reporting requested by the clients, handled debris contractor invoicing data and documentation, provided client demonstrations of the geoportal GIS tracking system, and sat in on initial project meetings with clients to answer and advise on any questions regarding their FEMA compliance pertaining to the debris removal operations and data tracking.

- **Louisiana:** Audubon Nature Institute, Central, Covington, Iberville Parish, St. John the Baptist Parish, St. Helena Parish, St. James Parish, Tangipahoa Parish, Gramercy, Litcher

Senior Data Manager (November 2020 – June 2021)

Various Locations | Hurricane Zeta

Mr. Bosques handled overall project setup through Tetra Tech's ADMS (RecoveryTrac™), created and oversaw specialized reporting requested by the clients, handled debris contractor invoicing data and documentation, provided client demonstrations of the geoportal GIS tracking system, and sat in on initial project meetings with clients to answer and advise on any questions regarding their FEMA compliance pertaining to the debris removal operations and data tracking.

- **Alabama:** Dallas County, Marengo County, Wilcox County
- **Mississippi:** Diamondhead, Gulfport, Hancock County

Senior Data Manager (September 2020 – October 2021)

Various Locations | Hurricane Laura

Mr. Bosques handled overall project setup through Tetra Tech's ADMS (RecoveryTrac™), created and oversaw specialized reporting requested by the clients, handled debris contractor invoicing data and documentation, provided client demonstrations of the geoportal GIS tracking system, and sat in on initial project meetings with clients to answer and advise on any questions regarding their FEMA compliance pertaining to the debris removal operations and data tracking.

- **Louisiana:** Lake Charles, Calcasieu Parish Acadia Parish, Rapides Parish, Jefferson Davis Parish, Dequincy, Crowley, Sulphur, Vinton, Westlake, Iowa
- **Texas:** Orange County

Invoice Reconciliation Manager (January 2019-December 2019)

CalRecycle | Camp Fire

Mr. Bosques served as the invoice reconciliation manager for the prime debris contractor Ceres Environmental, Inc. following the Camp Fire incident.

- Provided oversight, quality control, and guidance during the invoice reconciliation process for over 6.6 million cubic yards of debris removed across 2,800 parcels.

Regional ADMS / Data Manager (August 2017- Present)

City of Houston, Texas | Hurricane Harvey

While Hurricane Harvey made landfall near Rockport, TX, the slow moving tropical system brought bands of heavy rain. An average of 40 inches of total rainfall, the equivalent of 1.2 trillion gallons of water, dropped onto Harris County and the City of Houston. As a result, the City experienced widespread flooding and activated program management and monitoring services from Tetra Tech.

- Mr. Bosques, a local resident of the City, was designated as the lead data manager and has overseen the documentation of over 1.4 million cubic yard of debris removed.
- He oversaw the reconciliation with the multiple prime contractors the City tasked with debris removal following Hurricane Harvey.

Data Manager (October 2016 – May 2017)

Town of Hilton Head, South Carolina | Hurricane Matthew Debris Program Management

Mr. Bosques was deployed to the Town of Hilton Head, South Carolina after Hurricane Matthew affected the area causing flooding and extensive damage. Mr. Bosques has been overseeing data management efforts and validating the documentation being reported for 2.1 million cubic yards of debris and over 40,000 hazardous trees.

Data Manager (August 2016 – October 2016)

CalRecycle | Erskine Fire Remediation and Disaster Recovery Services

Following catastrophic fires that impacted California in August 2016, Tetra Tech was contracted through CalRecycle to provide project management and oversight of the Erskine wildfire recovery efforts. Mr. Bosques served as the data manager for the environmental and debris project involving over 200 parcels.

PPDR Data Manager (January 2016-August 2016)

Calaveras County, California | Catastrophic Fires

The catastrophic fires that impacted Calaveras County left severe destruction and damage. As part of the selected contractor's team, Tetra Tech provided data management and administrative functions to support debris removal efforts of fire related debris and hazards from private property in the impacted areas.

- Mr. Bosques was deployed as the PPDR data manager for over 300 parcels.

Data Manager (October 2015 – January 2016)

San Marcos, Texas | Severe Storms and Flooding Disaster Debris Program Management

Mr. Bosques was deployed to the City of San Marcos, Texas following severe storms and flooding that resulted in concentrated volumes of disaster debris in the City. As data manager,

- Mr. Bosques managed a variety of projects related to Post-Event recovery and monitoring services, and also interacted with clients, consultants, staff members and strategic partners to accurately document and efficiently recover disaster debris.
- Produced reports, documents, graphs and other management tools for tracking project process, and provided ongoing communication and project management tasks for both client and company use, utilizing a variety of technology to ensure both client satisfaction and project success.
- Responsible for monitoring site safety and maintaining safety awareness to ensure safe working environment.

Data Manager (October 2015 – March 2016)

Hays County, Texas | Memorial Day Flooding Disaster Debris Management

- Provided quality assurance and quality control (QA/QC) of debris monitoring documentation.
- Prepared daily status reports to provide the County with visibility into debris removal operations, and worked with the County and FEMA to meet supporting documentation requests needed for the development of PWs.

Assistant Data Manager (June 2015 – August 2015)

City of Houston, Texas | Severe Storms and Flooding Disaster Debris Program Management

Mr. Bosques served as Assistant Data Manager for the City of Houston, Texas following severe storms and flooding that resulted in 300,000 cubic yard of disaster debris in the City.

- Worked alongside the data manager of the FEMA funded destruction relief program for the City of Houston and was also in charge of zone clearances as well as the daily input of collection logs and data documentation.



Kim Bowyer

Operations Section Chief

15 YEARS OF
EXPERIENCE

24 DISASTERS

Areas of Expertise

FEMA Compliance Monitoring
Disaster Debris Management
Field Monitoring
Project Staffing
Truck Certification
Multiagency Coordination
FEMA Reimbursement

Disasters

Hurricane Ida
Surfside Condo Collapse
VA Winter Storm
Hurricane Delta
Hurricane Hanna
Hurricane Laura
5278 Camp Fire
4400 GA Hurricane Michael
4337 FL Hurricane Irma
4240 Valley & Butte Fire
4245 Severe Storms Texas
4166 SC Winter Storm
4165 GA Winter Storm
4145 Colorado Floods
4087 Hurricane Sandy
4084 Hurricane Isaac
4024 Hurricane Irene
4106 CT Winter Storm
1791 Hurricane Ike
1786 Hurricane Gustav
1780 Hurricane Dolly
1676 MO Winter Storms
1606 Hurricane Rita
1602 Hurricane Katrina

Key Training/Certifications

NIMS Certified
40- Hour HAZWOPER
Supervisor Certification – HAZWOPER
IS-235.b Emergency Planning

Education

Thomas Edison State College,
Bachelor of Science, Marketing, 2005

EXPERIENCE SUMMARY

Mr. Kim Bowyer is an industry expert in large-scale mobilizations, project staffing, and debris monitoring operations and has extensive experience in disaster debris project management support under the FEMA PA program. He has provided regional project management support, and overseen state-level projects, involving multiple municipalities. Mr. Bowyer recently served as project manager for the Virginia Department of Transportation following the worst ice storm in Virginia in the past 20 years. He has also overseen projects for the Connecticut Department of Transportation following Hurricane Sandy and Winter Storm Alfred. In 2020, Mr. Bowyer was recognized by our corporate office as Tetra Tech's Project Manager of the Month due to his excellent customer service and ability to provide efficient and cost-effective programs for our clients.

Mr. Bowyer is also experienced in all aspects of disaster planning and recovery, including mobilizing response teams, permitting debris management site locations, public information, call center operations, private property right-of-entry administration, waterway cleanup, ADMS implementation, and residential/commercial demolition.

RELEVANT EXPERIENCE

Regional Manager (August 2021 – Present)

State of Louisiana | Hurricane Ida

Mr. Bowyer is currently serving as a regional manager as part of Tetra Tech's engagement with clients across Louisiana including St. James, St. Johns, and Iberville Parishes, in response to Hurricane Ida. Mr. Bowyer has been intimately involved in client planning meetings, staff training, disposal operations and ensuring Tetra Tech's health and safety plans are executed.

Project Manager (July 2021 -August 2021)

City of Miami, Florida | Surfside Building Collapse

Following the devastating 2021 Surfside Building collapse, Tetra Tech was on the ground in Miami-Dade County to provide debris monitoring and evidentiary chain of custody tracking. The building collapse required calculated operations to remove debris as building investigation and search for missing persons was still underway. In total, Tetra Tech monitored the removal of 10,264 tons of debris from the site.

Mr. Bowyer was responsible for the following:

- Documented removal of evidentiary debris a transport to staging area for evidentiary review
- Oversaw removal of Demolition debris
- Oversaw and documented final processing of all debris

Project Manager (Feb 2021 – June 2021)

Virginia Department of Transportation – Richmond District | Winter Storm

Mr. Bowyer managed debris removal monitoring for a 14 County region in Central Virginia following the worst ice storm to impact Virginia in the past 20 years. It was

anticipated that over 200 local monitors would be hired and trained during peak operations, and would include an estimated 80,000 leaners and hangers.

Regional Manager (August 2020 – February 2021)

SW Louisiana | Hurricanes Laura & Delta

Mr. Bowyer was responsible for project oversight of 6 congruent recovery operations, including 200+ local debris monitors. He oversaw overall operations, recruiting of local staff, and was responsible for weekly progress reporting to the State of Louisiana.

Project Manager (July 2020 – August 2020)

Cities of Edinburgh and Pharr, TX | Hurricane Hanna

Tetra Tech provided an immediate response to the Cities of Edinburgh and Pharr, Texas. Mr. Bowyer served as project manager where he was responsible for staff training and scheduling, operational coordination between contracted debris haulers and City stakeholders. Over the course of the project, Mr. Bowyer oversaw day-to-day operations of 2 congruent projects with 40+ staff.

Project Manager (April 2020 – Current)

Harris County, TX | Homeless Medical Isolation

Mr. Bowyer oversaw intake of patients and documented length of stay, and provided daily and weekly occupancy and staffing reports to the Harris County Community Development Services. He ensured proper distribution of essentials (meals, water, etc.), and coordinated arrivals and departures of residents with Harris County Sheriff's office.

Quality Control Officer (January 2019 – Present)

CalRecycle, CA | Camp Fire

Mr. Bowyer serves as Quality Control Officer on the CalRecycle Camp Fire project. His responsibilities include oversight, quality control, and planning in relation to the environmental sampling and debris removal from nearly 17,000 structures.

Regional Project Manager (October 2018-December 2018)

State of Georgia | United States Army Corps of Engineers (USACE) | Hurricane Michael

Mr. Bowyer served a regional project manager for the USACE mission to remove debris that was a result of Hurricane Michael in the State of Georgia. He oversaw debris removal documentation requirements for the southern region counties that were part of the USACE mission.

Regional Lead (August 2017 – September 2017)

Various Clients in Texas | Hurricane Harvey

Following Hurricane Harvey and the record rainfall in Texas, Mr. Bowyer headed up debris removal operations in the City of Victoria and Victoria County. He was also tasked with the oversight of several other projects in the Houston area.

Project Manager (Periods of work since 2015)

Calaveras County, CA | Butte Fire

Following catastrophic fires that impacted Calaveras County in September 2015, many dead or dying trees that were a threat to fall and threaten citizens along the County right-of-way (ROW) were in need of mitigation. Tetra Tech was hired to complete a hazardous tree mitigation program, which included both ROW trees and private property. Mr. Bowyer was tasked with project management of 12,000 ROW and private property trees that were located on 86 miles of County ROW and 500 private properties.

Project Manager (November 2015 – August 2017)

Lake County, CA | Catastrophic Fires | Disaster Debris Program Management

Following catastrophic fires that impacted Lake County in September 2015, many dead or dying trees that were a threat to fall and threaten citizens along the County right-of-way (ROW) were in need of mitigation. Tetra Tech was hired to complete a hazardous tree mitigation program, which included both ROW trees and private property. Mr. Bowyer was tasked with project management of 20,000 ROW and private property trees that were located on 130 miles of County ROW and 2500 private properties.

Project Manager (May 2015 – September 2015)

Hays County, TX | Flood Debris Removal Project Management

Mr. Bowyer served as project manager for Hays County's debris removal project on County public ROW following the May 2015 flooding along the Blanco River. To date, our team has removed close to 45,000 yards of debris. Mr. Bowyer is also assisting in managing the identification of eligible debris for reimbursement and administering the project management for the County's private property debris removal project.

Project Manager (March 2014 – April 2015)

Boulder County, Colorado | Flood Debris Removal Project Management

Our team removed close to 10,000 tons of debris. Mr. Bowyer assisted in managing the identification of eligible debris for reimbursement and administering the project management for the County's demolition project.

Regional Project Manager (February 2014 – March 2014)

City of Augusta, Georgia; City of Sumter, South Carolina; Counties of Colleton, Dorchester, Sumter County, South Carolina | Winter Storm Pax Debris Removal Project Management

Mr. Bowyer was a critical component of our response to Winter Storm Pax in South Carolina and Georgia. Mr. Bowyer was tasked with leading our team of recruiters to staff projects that spanned nearly 4,000 square miles of South Carolina and Georgia. Mr. Bowyer's team identified, hired, and trained over 150 monitors within the first few days of operations. Mr. Bowyer also oversaw debris site openings, project initiation, and data management.

Regional Operations Manager (February 2013 – January 2014)

New Jersey Department of Environmental Protection | Hurricane Sandy Waterways Debris Removal Project Management

Following Hurricane Sandy, Mr. Bowyer served as regional operations manager for the New Jersey Department of Environmental Protection, which included the removal of debris, vessels, and silt along two-thirds of New Jersey's coastline.

Deputy Project Manager (October 2012 – December 2012)

State of Connecticut | Hurricane Sandy Disaster Debris Project Management

Following Hurricane Sandy, Mr. Bowyer managed the debris removal project for the State of Connecticut Department of Transportation, Connecticut Department of Energy and Environmental Protection, and eight separate municipalities. Mr. Bowyer trained monitors for duties as tower monitors and ROW vegetative and construction and demolition debris collection monitors, organized the staffing of monitor positions, and tracked the progress of the debris collection.

Project Manager (August 2012 – November 2012)

Jefferson Parish, LA | Hurricane Isaac Disaster Debris Project Management

He managed the debris removal, leaners and hangers, and parks projects. He met with city officials regularly to report progress and plan operations. He worked with city officials, contractor management, and disposal site operators to plan disposal site operations, traffic flow through the site, and debris staging strategies.

Deputy Project Manager (October 2011 – April 2012)

Connecticut Department of Transportation | Winter Storm Alfred Disaster Management Support Services

Following Winter Storm Alfred, Mr. Bowyer managed debris and hazardous tree removal operations involving 160 monitors and field staff. His territory totaled 1,800 miles of state routes and several interstate highways. Mr. Bowyer also maintained separate records for FEMA and Federal Highway Administration-Emergency Relief (FHWA-ER) routes to facilitate reimbursement for the State of Connecticut.

Project Manager (August 2011 – December 2011)

Henrico County, VA | Hurricane Irene Disaster Debris Project Management

Following Hurricane Irene, Mr. Bowyer oversaw the removal of debris and hazardous trees from County-maintained roads. He also expanded the debris management project to include the removal of hazardous trees and branches from County parks.

Operations Manager (July 2008 – November 2008)

Hidalgo County, TX | Hurricane Dolly Disaster Debris Project Management

Mr. Bowyer served as operations manager following Hurricane Dolly for Hidalgo County, where he managed the debris removal and time and materials operations. Mr. Bowyer properly allocated personnel to match the demands of the contractor, while maintaining the proper staffing levels. He was responsible for truck certifications and properly staffing personnel at all debris

management site towers. Mr. Bowyer also served as project manager for the City of Alamo, Texas, which is located in Hidalgo County.

Operations Manager (March 2010 – May 2010)

Comanche Nation, OK | Winter Storm Disaster Debris Project Management

Mr. Bowyer trained Comanche Nation tribal members on debris removal, leaners and hangers, and tower and truck certification. Mr. Bowyer assisted with identifying and assessing the properties owned by the Comanche Nation.

Operations Manager (November 2009 – December 2009)

Arkansas Game and Fish Commission | Ice Storm Disaster Debris Project Management

Following the ice storms in 2009, Mr. Bowyer was responsible for training monitors and certifying over 40 crew members for a fast-paced urgent hazardous tree removal in two wildlife management areas. He also assisted in FEMA validations for proper reimbursement.

Project Manager (September 2008 – August 2009)

Iberville Parish, LA | Hurricane Gustav Disaster Debris Project Management

Following Hurricane Gustav, Mr. Bowyer managed ROW debris removal and the removal of hazardous branches and leaning trees on Parish ROWs. He also managed the Parish-wide private property debris removal project and the removal of storm-generated debris from several Parish waterways and bayous.

Project Manager (July 2009)

City of Lynn, AR | Shirey Bay Wildlife Management

Mr. Bowyer served as the project manager for the leaner and hanger removal from ROW and boat lanes after the severe ice storm of 2009. He was responsible for the quick onboarding and training of monitors to ensure staffing levels matched the contractor levels.

Operations Manager (December 2007 – May 2008)

City of Norman, Oklahoma | Winter Storm Disaster Debris Project Management

Following severe winter storms in 2007, Mr. Bowyer supervised and provided quality assurance for monitors involved in ROW debris removal and the removal of hazardous branches and leaning trees. He also scheduled and reported on the progress made in 15 city parks within the City of Norman.

Operations Manager (January – July 2007)

Greene County, Missouri | Winter Storm Disaster Debris Project Management

Following severe ice storms in the Midwest in 2007, Mr. Bowyer supervised and provided quality assurance checks for up to 60 monitors doing debris and tree removal.

Brian Ross

Finance Section Chief



Years of experience

- Over 18 years of experience.

Education, Licenses & Certifications

- MBA, Hass School of Business, UC Berkeley
- MSE Civil Engineering Stanford University
- BS Construction Management, CalPoly, San Luis Obispo
- FINRA Series 65 (Investment Advisor)
- MSRB Series 50 (Municipal Financial Advisor)
- Class A Contractors License
- LEED AP certified

Key Skills

P3 and alternative finance

- Financial Modeling
- Business Case development
- Value for Money analysis

Capital Program financial management and planning

- Financial strategy
- Grant funding/Benefit Cost Analysis
- Budgeting and cash flow management
- Bond financing
- Financial reporting

Construction Management and project delivery

- Estimating
- Scheduling
- Contract Management

Honors and Awards

- 2019 Engineering News Record Top 20 Under 40
- Bronze Star

Summary of Background and Qualifications

Brian has over 18 years of experience in the development of public transportation/transit infrastructure projects. His wealth of experience in construction engineering management, combined with his expertise in project funding and financing, provides a rare combination of skills that is valuable in all stages of the infrastructure project lifecycle.

Relevant Project Experience

- Los Angeles County Metropolitan Transportation Authority (Metro): Brian, working as a sub-consultant to EY, participated in the market sounding for the Sepulveda Pass Transit Corridor PDA and is an integral part of the team developing the P3 PDA procurement documents.
- Riverside County Transportation Commission (RCTC): Brian developed the financial analysis and investment packaging strategy for the Commission's Long-Range Transportation Plan (LRTP).
- Los Angeles County Metropolitan Transportation Authority (Metro): Brian led the financial modelling effort in developing an independent financial strategy for LA Metro's Sepulveda Transit Corridor as well as producing reports on topics such as Pre-Development Agreements (PDA), EB-5, RRIF lending, PAB's, and Design-Build-Finance P3s.
- California High Speed Rail Authority: Working as a sub-consultant to KPMG, Brian is part of the team performing budgeting, commercial strategy, financial reporting and financial strategy for the Authority CFO. Brian has also participated in developing financing strategies involving TIFIA, RRIF, and Cap-and-Trade securitization.
- Caltrans: As a sub-consultant to Sperry Capital, Brian supports financial advisory services including debt structuring, federal loan applications (TIFIA), P3 structuring, financial modeling, Value for Money (VfM) analysis, and procurement strategy advisory services to Caltrans.
- BUILD Grant Application (2018), City of Freemont: The City of Fremont submitted a grant application for their signal modernization project in response to the 2018 Notice of Funding Opportunity. As part of the Mott MacDonald team, Brian Ross preformed the Cost Benefit Analysis (CBA) required for grant application.
- INFRA Grant Application, Santa Clara Valley Transportation Authority (VTA) (2017): The VTA submitted a grant application for their SR85 Express Lanes project. As part of the Mott MacDonald team, Brian Ross preformed the CBA required for grant application.
- TIGER grant application CBA for the I-680 NB Express Lanes, Alameda County Transportation Commission (ACTC) (2016): The ACTC submitted a grant application for their I-680 NB Express Lanes project. As part of the Mott MacDonald team, Brian Ross preformed the CBA required for grant application.

- 2011 Army Engineer Platoon Leader of the Year

- Silicon Valley BART Extension, Milpitas CA: As a Project Manager for Skanska on the \$880 million Design/Build extension of the BART system, Brian managed various subcontracts, worked on large material/equipment procurements, design coordination, environmental compliance, project scheduling, cost estimating, and public outreach.

Professional and Military Experience

- Ross Infrastructure Development LLC. (Mar. 2017 – Present) Owner: As an SBE/DVBE certified firm, Ross Infrastructure Development provides consulting services related to public agencies on infrastructure project funding, finance, and delivery.
- InfraShares Inc. (Mar 2017 – Present) CEO/Co-Founder: Infrashares was formed after Brian collaborated with the Executive Director at USDOT Build America Bureau on a research paper for the Transportation Research Board (TRB) exploring the potential application of investment crowdfunding in the financing of P3s. InfraShares leverages proven technology and deep industry expertise to provide a platform for projects to raise capital from a broad base of investors who support infrastructure development.
- Mott MacDonald Inc. (Mar. 2016 – Mar. 2017) Project Director, San Francisco CA: As a Project Director for the Infrastructure Finance Advisory (IFA) practice Brian provided alternative funding and finance advisory services to public and private clients.
- Sperry Capital Inc. (Aug. 2014 – March 2016) Principal Consultant, Sausalito CA: As a principal consultant for Sperry, Brian supported financial advisory services to various clients on projects relating to infrastructure finance and P3s.
- Table Rock Capital (Oct. 2012 – Jul. 2014) General Manager, San Francisco, CA: Brian acted as Asset Manager for the private equity developer of a 30-year concession to privately operate the water & wastewater systems for the city of Rialto, CA.
- United States Army (Dec. 2010 – Dec. 2011) 2nd Platoon Leader 649th Engineers, Afghanistan: As Platoon Leader for a Horizontal Engineering unit deployed to Afghanistan in support of OEF, Brian personally led over 30 engineering missions including route improvement, bridge construction, route clearance and FOB/COP construction. Brian was awarded the Bronze Star in addition to being named the Army National Guard Engineer Platoon Leader of the Year in 2011.
- Skanska USA (Aug 2008 – Sept. 2012) Project Manager, Various Projects: Brian managed various subcontracts, worked on large material/equipment procurements, design coordination, environmental compliance, quantity take-offs, project scheduling, cost estimating, and public outreach.
- Townsend Management Inc. (Aug. 2005 – Dec. 2006) Project Manager: Brian served as Project Manager for Townsend Management Inc. (TMI) acting as Prologis' construction manager on construction of infrastructure including bridges, light-rail, roadwork, utilities, pump stations, and parks in support of the SF Mission Bay redevelopment.



Amy Fan

Deputy Finance/Administrative Chief

EXPERIENCE SUMMARY

Ms. Amy Fan is a Certified Public Accountant with nearly 8 years of auditing and accounting experience. Her educational foundation in economics and accounting allow her to apply industry best practices to each project, including GAAP and Sarbanes-Oxley.

RELEVANT EXPERIENCE

Deputy Finance Chief, Contractor

Tetra Tech Inc., Maitland, FL | August 2020 – Present | Camp Tree Removal Project

- Reviewed contractor invoices to ensure accuracy and completeness of labor, equipment, laboratories, and other billable cost.
- Performed various integrity control on project personnel and invoice elements.

Audit Manager

Tetra Tech Inc., Maitland, FL | May 2019 – March 2020 | Camp Fire 2018

- Reviewed invoices to ensure accuracy and completeness of labor, equipment, laboratories, and other billable cost.
- Developed Policies & Procedures on various invoicing processes.

Senior Auditor (July 2016 to Present)

Express Scripts, Inc. | Franklin Lakes, NJ

- Lead risk-based financial, operational, and cross-functional IT audit engagements. Supervise staff auditors through planning, execution, and reporting stages. Monitor the progress of the audit engagement and identified necessary changes to the audit plan as the engagement progresses. Ensure that audits are completed in a well-documented and timely manner.

Corporate Auditor (March 2015 to July 2016)

Realogy Holding INC - Madison, NJ

- Led risk-based audit engagements, including reviewing, and assessing financial, operational, and compliance controls.
- Participated in developing the department's Policies & Procedures and developing the department's continuous Quality Assurance and Improvement Program.

Senior Internal Auditor (December 2012 to February 2015)

Holman Automotive Group INC - Maple Shade, NJ

- Performed risk-based financial audits and internal control testing.

Staff Accountant (August 2012 to November 2012)

HUA GAO CPA LLC - Edison, NJ

- Assisted in audits of major clients' financial statements.

YEARS OF EXPERIENCE

8 years

AREA OF EXPERTISE

- Accounting
- Internal Auditing
- Sarbanes-Oxley
- Generally Accepted Accounting Principles (GAAP)

TRAINING/CERTIFICATIONS

- Certified Public Accountant
- Certified Internal Auditor

EDUCATION

Master in Accountancy, Rutgers Business School, 2012

Bachelor of Science in Accounting with a Minor in Economics, Rutgers University, 2011



Billy Bol

Environmental Unit Manager/Senior Environmental Specialist

22 YEARS OF
EXPERIENCE

Areas of Expertise

Multimedia sampling

Project Management

Key Training/Certifications

OSHA 30-hr construction, 2011

CPR-First Aid, 2016

Supervisor Training, 2006

Education

South Dakota State University,
Bachelor of Science in Wildlife &
Fisheries, 1999

EXPERIENCE SUMMARY

Mr. Bol is a project manager and field lead with 20 years of experience supporting federal, state and private clients, including the U.S. Environmental Protection Agency (EPA), Navy, state, local, and private clients. His duties include planning and implementing field work and managing site teams to support site investigation and remediation. This includes a full range of sampling activities for groundwater, soil, sediment, surface water and air. He also supports a range of spill response needs for private clients in the Colorado area, working with subcontractors, Tetra Tech technical and regulatory specialists, and clients/insured parties. He also supports studies of the ecology of various site-specific habitats in support of Superfund and RCRA ecological risk assessments (screening level, baseline, and combustion), and characterizes the natural resources at facilities regulated under the National Environmental Policy Act.

RELEVANT EXPERIENCE

Environmental Group Manager (2021 – Present)

CalRecycle | Caldor Fire, California

Mr. Bol is the Environmental Group Manager for the Dixie Fire under the contract with CalRecycle. Mr. Bol's responsibilities include managing all group leads (Site Assessment, Asbestos Assessment, Archeological Assessment, Biological Assessment, Air Monitoring and Soil Sampling). Mr. Bol has daily meeting and calls with the client, CalRecycle, as well as with the California Governor's Office of Emergency Service (CalOES) and other Contractors. Mr. Bol is responsible that the Environmental Groups get and follow directives from the client and operate efficiently and safely. Mr. Bol provides summaries of daily activities and problems encountered with mitigation recommendations on evening operations calls. Mr. Bol is responsible for his staff to follow Health & Safety (H&S) protocol, defined goals and objectives, and other directives given by the client. Mr. Bol is responsible that information and directives are given to the staff and the client in a timely manner to ensure project objectives are met. Mr. Bol will field calls from the client and proactively answer the questions and complete other tasks, as requested by the client.

Responder 1 (July 2020– Present)

U.S. Environmental Protection Agency (EPA), Region 8 | START Contract

Mr. Bol is part of the EPA START contract in Region 8. Mr. Bol serves as an R1 responder. Mr. Bol is on-call every other week to respond as needed. Mr. Bol participated in the DHS Biowatch program exercise to sample for CBRN.

Project Manager/Field Team Leader (January 2021 – Present)

EPA, Region 8 | Andreas Petroleum Spill, Yellowstone National Park, Wyoming

Mr. Bol is the Project Manager for the Andreas Petroleum Spill site in Yellowstone National Park, Wyoming. Mr. Bol is responsible for project management task such as cost tracking and scheduling of deliverables. Mr. Bol was also the Team Leader for the first groundwater sampling and sub-surface geophysical survey event.

Field Lead

Federated Insurance Company (Federated), Colorado, Various Locations

Mr. Bol support emergency response field work for Federated, a company that insures gasoline and diesel fuel tanker trucks. He provides "rapid response" support in the field to tanker truck accidents throughout the Front Range area. Recent Colorado projects supported for Federated have included: (1) Boulder, Colorado —about 4,000 gallons of diesel was spilled during an accident. More than 2,400 cubic yards (cy) of petroleum-contaminated soil was excavated, profiled, and disposed. The project was in Boulder Canyon, creating a challenging work environment as a result of traffic and the adjacent Boulder Creek; (2) Parker, Colorado — a surface spill occurred during a routine delivery of fuel. A site inspection determined that overfill protection at the facility was not present; (3) Loveland Pass, Colorado —about 2,300 gallons of diesel was spilled during an accident. More than 4,100 cy of petroleum-contaminated soil was excavated, profiled, and disposed. The project occurred on a high elevation mountain road, making traffic control and site security a high priority; (4) Thornton, Colorado — about 1,000 gallons of gasoline was spilled during an accident. More than 6,000 cy of petroleum-contaminated soil was excavated, profiled, and disposed. Work was completed along the City of Thornton right-of-way; therefore, close coordination was required with the city regarding traffic control and site security. The spill also affected two private property owners, which also required close coordination. The site received concurrence for no further action from CDHPHE; and (5) Monument, Colorado — approximately 1,000 gallons of gasoline and diesel fuel were spilled during an accident. More than 900 cy of petroleum-contaminated soil along an environmentally sensitive area was excavated, profiled, and disposed of. Work was completed along Interstate 25; therefore, close coordination with CDOT regarding traffic control and site security was required. The site received concurrence for no further action from CDOT. Mr. Bol also has supported field work, documentation, and coordination for other Colorado spill sites.

Field Technician (November 2019)

Confidential | Weld County, Colorado

Mr. Bol was part of a team that conducted an inventory of oil and gas assets for a confidential oil and gas client. Mr. Bol visited many operator oil and gas well production sites and took an inventory of all the major components of the line.

Document Quality Control (February 2019 – Present)

Camp Fire, California

Mr. Bol provided quality control for documents regarding the Camp Fire project in California. Mr. Bol reviewed several documents per property sampled to ensure all the information within the documents was accurate.

Project Manager (2016 –2019)

UC Health, Broomfield, Colorado

Mr. Bol managed compliance work for UC Health Broomfield Hospital, including quarterly sampling. UC Health Broomfield Hospital discharged waste water into the City of Broomfield's sewer system. Mr. Bol reviewed the permit and collected samples to ensure that the discharge water was within the permit guidelines. Mr. Bol prepared quarterly discharge monitoring reports for the client, interacted with city representatives, and has supported a successful compliance track record.

Field Team Leader (2016)

Reservoir Sampling, Cherry Creek Reservoir, Broomfield, Colorado

Mr. Bol served as the field team leader for stream sampling along tributaries to the Cherry Creek Reservoir. This work included planning, coordinating logistics, trouble-shooting equipment, implementing regular and storm even sampling, and documenting findings for reporting purposes.

Field Team Leader & Safety Office (2015 – Present)

Pacific Western Technologies (PWT) and EPA Region 8 | Colorado Smelter Superfund Site

Mr. Bol served as a Field Team Leader for Demonstration of Methods Applicability and Remedial Investigation/Feasibility Study (RI/FS) work at the Colorado Smelter Site. The site work includes evaluating the nature and extent of lead and arsenic contamination in about 1,600 homes surrounding the former smelter; investigation of the former smelter site is also planned. Activities have included:

- Sampling of soil in residential yards using an incremental sampling methodology and utilizing manual drive core samplers.
- Sampling of residential indoor dust using a High Volume Small Surface Sampler (HVS3).
- Preparing soil samples for analysis through a process of drying, disaggregating, and sieving samples into different grain-size fractions.
- Analyzing soil samples with X-Ray Fluorescence (XRF) technology and calculating within-sample variability in real time.
- Interacting with the homeowners and the community, including selection of dust sampling locations based on SOP guidance and a resident questionnaire.
- Assuring quality in all aspects of the project in accordance with the Quality Assurance Project Plan (QAPP)

Field Technician (2012)

Confidential Refinery Client | Sewer Study

Mr. Bol was part of a field team that conducted a sewer study. Mr. Bol was responsible for identifying potential sewer features, inventorying the features, and conducting flush and dye-testing to test the connectivity of sewer features.

Field Manager (2011 – 2014)

Various Oil and Gas Clients

Mr. Bol has provided construction management oversight and field team leadership for several oil and gas clients. Mr. Bol has prepared Health & Safety plans, implemented field work, prepared daily reports, and acted as a go-between for clients and other contractors. He has supervised the daily construction activities and ensured a safe working environment.

Field Manager (2008 - 2012)

Nas Lemoore, NAS Fallon, CO

Mr. Bol has lead several field investigations at various U.S. Navy bases, conducting multimedia sampling, drilling, and other environmental data acquisition. For this site, Mr. Bol prepared site-specific Health & Safety plans, schedule contractors and subcontractors, and led daily field activities.

Field Technician (2002)

Montana Department of Environmental Quality | Groundwater Well Development, Montana

Mr. Bol conducted development of groundwater monitoring wells for the Montana Department of Environmental Quality. Mr. Bol properly developed the wells after installation to ensure tight and complete sand pack and the removal of siltation from well installation process. Mr. Bol also conducted groundwater sampling on several of the wells.

Field Team Leader (2008 & 2009)

EPA | National Rivers and Streams Assessment

Mr. Bol served as field team leader during a National Rivers and Streams Assessment project for EPA. Mr. Bol was responsible for planning the sited to be assessed, logistics, delegating team member responsibilities, field work, shipping sample coolers, and tracking paperwork.

Field Manager (2014)

Confidential Oil & Gas Clients | Purgatoire River Project, CO

Mr. Bol led a field crew during monthly sampling events on the Purgatoire River for two Oil and Gas (O&G) private clients. Mr. Bol and the crew calibrated equipment and gauged water levels at several river stations. Mr. Bol collected water samples and delivered them to the laboratory for analysis and supporting documentation, chain of custody, and reporting needs.

Field Team Leader (2010)

EPA | BP Oil Spill Response, Gulf of Mexico

Mr. Bol was a field crew leader for a team supporting water column and sediment sampling in the Gulf of Mexico in response to the BP Oil Spill under a response action contract with the EPA. Mr. Bol coordinated sample locations with the boat captain, collected samples, oversaw the sample crew, and coordinated supplies, sampling, and chain of custody needs.

Project Manager (2015)

Confidential Client | Phase II ESA and Flammable Gas Survey, Adams County, CO

Mr. Bol was the project manager for a Phase II ESA and Flammable Gas Survey. Mr. Bol prepared the cost proposal, coordinated subcontractors, conducted the field effort and managed the deliverables. The project was performed on a very quick-turn around timeframe as the client needed to complete a land purchase based on the results of the ESA within three weeks on the work being awarded.

Project Manager (2007 – Present)**Sandoz, Broomfield, CO**

Mr. Bol manages compliance work for a pharmaceutical manufacturing facility, including monthly and biannual sampling. Sandoz discharges process waste water into the City of Broomfield's sewer system. Mr. Bol reviews the permit and collects samples to ensure that the discharge water is within the permit guidelines. Mr. Bol prepares quarterly discharge monitoring reports for the client, interacts with city representatives, and has supported a successful compliance track record.

Removal Manager/SHSO (July 2006 – February 2007)**Barker Chemical Site, Inglis, FL**

Mr. Bol was the Removal Manager and Site Health and Safety Officer at the Barker Chemical site in Inglis, Florida during removal assessment and removal phases under the START IV contract. Mr. Bol's responsibilities included overall site management of the ERRS contractors, detailing where to excavate in residential yards contaminated with lead and arsenic in soil. Mr. Bol integrated SADA calculation maps converted to shape-files into the Trimble GPS unit. Mr. Bol was responsible for all health and safety aspects associated with the field work. Mr. Bol utilized GPS technology to record all sample locations and outlines of all excavations. Mr. Bol also managed the GIS and sample databases and wrote the removal report.

Project Manager/Field Oversight (March 2006 – May 2006)**START Removal, Former Caraleigh Phosphate Site in Raleigh, NC**

Mr. Bol was the project manager for a START removal at the former Caraleigh Phosphate site in Raleigh, North Carolina under the START IV contract. Mr. Bol was responsible for writing the HASP, conducting oversight of the ERRS contractor, and conduct XRF sampling to delineate and confirm excavation areas. Mr. Bol was responsible for updating the EPA OSC of the project schedule and progress, as well as writing the removal report.

Removal Manager/SHSO (May 2007 – July 2007)**START Removal, Crozet Township Site in Crozet, VA**

Mr. Bol was the Removal Manager and Site Health and Safety Officer at the Crozet Township site in Crozet, Virginia during removal assessment and removal phases under the START III contract. Mr. Bol's responsibilities included overall site management of the ERRS contractors, detailing where to excavate in residential yards contaminated with lead and arsenic in soil, writing weekly reports to the OSC, and also to collect soil samples for laboratory analysis.

Project Manager (2005 – Present)**Thomas Steel Drums, Inc. | Cost Estimate and Quarterly Air Emissions**

Mr. Bol prepares the cost estimate yearly and prepares quarterly air emissions reports for Thomas Steel Drums, Inc. The client sends Mr. Bol information regarding particulates, and other variables, and Mr. Bol prepares air emissions calculations that are submitted to the State of Texas.

Anthrax Sampling/Crew Leader (November 2001 – March 2002)**START III**

Mr. Bol conducted Anthrax sampling in Washington DC as part of the START III contract tasked to sample/monitor buildings on Capitol Hill. Mr. Bol was a sample team leader in charge of sampling Senators suites in the Hart Senator Office Building. Mr. Bol also performed air monitoring/sampling in the Hart Senate Office Building.

Mr. Bol also conducted air monitoring during the fumigation effort of Senator Daschle's Office. Used Mono-Tox device to monitor chlorine dioxide levels in suites surrounding Senator Daschle's.

Mr. Bol conducted anthrax sampling at a facility used to store critical items taken from the Hart senate Office Building. Mr. Bol was a sample crew leader responsible for sampling items in the building and building as well.

Mr. Bol also conducted air monitoring during the fumigation effort of Senate mail that was taken from the Hart Senate Office Building. Used Mono-Tox unit to monitor chlorine dioxide levels around the trailer being used for gassing. Took inventory of all mail articles prior to the fumigation.



Andrew McCadden

Biologist

10 YEARS OF
EXPERIENCE

Areas of Expertise

Project Management

Wildlife Survey and Monitoring

Compliance Monitoring

Key Training/Certifications

CEQA Basics

NEPA Basics

Adult CPR/First Aid

Education

State University of New York, College of Environmental Science and Forestry, B.S. Conservation Biology, 2009

EXPERIENCE SUMMARY

Mr. McCadden is a project manager and field biologist with 10 years of experience throughout California. Mr. McCadden has worked on large multi-phased projects including wind, natural gas pipelines, natural gas pipeline testing, and linear transmission lines. Mr. McCadden's field work experience includes: burrowing owl surveys; desert tortoise surveys; desert kit fox telemetry; botanical surveys; noxious weed inventories; construction monitoring for desert tortoise, giant garter snake, Swainson's hawk, California tiger salamander, wetlands, and environmental compliance. Mr. McCadden has also provided onsite environmental awareness training for construction crews. During the last two years, he has mapped and monitored noxious weed populations on PG&E hydroelectric projects for both comprehensive baseline inventory surveys and annual post-treatment monitoring. As a project manager, Mr. McCadden has managed several utility, hazard tree and energy projects throughout California.

RELEVANT EXPERIENCE

Project Manager

CalRecycle | Camp Fire Debris Removal

The project consisted of removing debris from burned structures associated with the 2018 Camp Fire within Butte County. Under contract with Tetra Tech, Mr. McCadden was responsible for managing biological monitors, coordinating schedules, assignments and logistics for the client.

Project Manager and Field Biologist

CalRecycle | Butte Fire Hazardous Tree Removal

The project involved the removal of hazardous trees that posed an immediate threat to life, public health and safety, and trees that were identified to improve properties along county roads. The area in which the Project occurred was affected by the September 2015 Butte Fire. The Project designated over 8,000 trees for removal on both private land and public right-of-way. Under contract with Tetra Tech, Mr. McCadden was responsible for managing 10-15 onsite biological monitors and acted as the primary contact between GANDA and the client. As an onsite biological monitor, Mr. McCadden monitored and surveyed for California red-legged frog, lone buckwheat, lone manzanita and valley elderberry longhorn beetle. He provided onsite worker environmental awareness training, documented daily activities in a daily monitoring report and conducted surveys and monitoring for special status species. Mr. McCadden also surveyed and monitored for nesting birds throughout the project area.

Project Manager

Southern California Edison | Drought Tree and Hazardous Tree Removal Project

The project involved the evaluation, trimming and removal of hazardous trees associated with SCE infrastructure on Forest Service lands throughout SCE's service territory. Under contract with Environmental Intelligence, Mr. McCadden was responsible for managing biological and archeological monitors. Mr. McCadden coordinated schedules, assignments and logistics for the client.

Field Biologist**Pacific Gas & Electric Company | Vegetation Management Program**

Monitored tree trimming crews for California red-legged frog presence and conducted nesting bird surveys. Also provided worker environmental awareness training to all crew members.

Environmental Specialist**Southern California Edison | Distribution Support Program**

Under contract with SWCA, Mr. McCadden supported SCE's Non-MSUP Deteriorated Pole Replacement Program during the construction phase. Mr. McCadden supported requests in the following SCE Regions; Desert, Rurals, and San Jacinto. Throughout Mr. McCadden's time on the project, he helped support and clear several thousand poles for construction. Mr. McCadden was part of a team responsible for tracking construction support requests, evaluating the request against the environmental clearance or any other supporting documents on SCE's VPN service EHSync. Once cleared for construction, Mr. McCadden worked with several subconsultants to either conduct a required survey or staff a construction monitoring shift. Due to additional requirements and sensitive nature of BLM lands, Mr. McCadden was also assigned to take the lead on any requests occurring on BLM lands to allow for consistency. Mr. McCadden conducted QAQC for BLM survey and monitoring reports and submitted to SCE for review.

Project Manager**Southern California Edison | Doble 33kV Rebuild Project**

The project consists of replacement of approximately 385 wood poles with light weight steel poles, replacement of approximately 200 anchors and down guys, and re-conductoring the overhead line along the Doble 33kV Circuit within an approximate 15-mile span. Under contract with CH2M, Mr. McCadden was the Project Manager and oversaw field surveys for desert tortoise (*Gopherus agassizii*) and rare plants to support the Biological Assessment/Evaluation for planning and permitting.

Project Manager**Clearway Energy | Alta Wind**

Under contract with Clearway Energy, Mr. McCadden was the Project Manager for this on-call biological contract in support of the Alta Wind Farm in Mojave, CA. Biological services included Bakersfield cactus mitigation, general wildlife and botanical surveys, desert tortoise mitigation, and biological construction monitoring.

Project Manager**Southern California Edison | Tehachapi Renewable Transmission Line Project**

This project consisted of a series of new and updated high-voltage transmission lines and substations, totaling approximately 173 miles that planned to deliver renewable wind energy from Kern County south to Los Angeles County. Under contract with ICF, Mr. McCadden was responsible for managing the day to day operations of 15-20 biological monitors and the liaison between GANDA project staff and the client. Mr. McCadden coordinated schedules, crew assignments, and logistics for the client. As an onsite Biological Monitor, Mr. McCadden was responsible for assuring compliance with project mitigation measures and the Biological Opinion.

Adrian Whitaker, Ph.D., RPA

Archaeologist

20 YEARS OF
EXPERIENCE

Areas of Expertise

Prehistoric Archaeology
Cultural Resources Management
Regulatory Compliance

Key Training/Certifications

Register of Professional Archaeologists
Meets US Secretary of Interior's
Standards for Archaeology

Education

University of California, Davis, Ph.D. in
Anthropology, 2008
University of California, Davis, M.A. in
Anthropology, 2004
University of California, Davis, B.A. in
Anthropology, 2001

EXPERIENCE SUMMARY

Dr. Whitaker is a Far Western Principal and serves as Project Manager, Principal Investigator, and Faunal Analyst with experience in the Sierra Nevada foothills, Central Valley, and San Francisco Bay Area. At Far Western he has taken on a variety of projects that run the gamut of cultural resources management, including all stages of archaeological inquiry, and ranging from small surveys of less than 100 acres to large-scale data recovery and test excavations with multiple sites. Dr. Whitaker has worked extensively on transportation-related projects under the California Department of Transportation (Caltrans) Local Assistance program for Section 106 review or are being implemented directly by Caltrans and is an expert on the 2014 First Amended Caltrans Section 106 Programmatic Agreement.

Dr. Whitaker currently manages cultural resources on-call contracts with Caltrans District 5 (Central Coast), Caltrans District 6 (San Joaquin Valley), Caltrans District 10 (Central Sierra Nevada), Naval Facilities Command Southwest (California, Nevada, Arizona, and Utah), University of California at Davis, the San Mateo Joint Powers Board, and the Counties of Contra Costa and Fresno.

Dr. Whitaker has authored numerous excavation reports on the archaeology of the central Sierra Nevada, Central Valley, and San Francisco Bay Area in northern California and on the Santa Barbara Channel Islands and coast of southern California. Data from these reports have led to the publication of numerous scholarly articles in regional, national, and international journals, including American Antiquity, Journal of Anthropological Archaeology, Journal of Archaeological Science, Journal of Coastal and Island Archaeology, Quaternary International, California Archaeology, and Journal of California and Great Basin Anthropology.

RELEVANT EXPERIENCE

Project Manager/Archaeological Coordinator—North Branch Tetra Tech | 2021 CalRecycle Wildfire Clean-up Program

The State Hazard Debris Removal Program (Project) is in the process of conducting debris removal at approximately 2,200 properties and removing an estimated 300,000 trees across ten counties (Butte, Del Norte, Lassen, Nevada, Plumas, Sierra, Siskiyou, Shasta, Trinity, and Yuba). In this role Whitaker designed and implemented cultural resource training in concert with Native American tribal entities, oversaw the assessment and monitoring of Private Property Debris and Hazard Tree removal in 10 counties, trained and oversaw up to 20 archaeological monitors in the field, and ensured that the contractor was implementing the ECP and operational permits enforced by EPP and ECP required BMPs and AMMs. Far Western ensured compliance with Section 106 and minimized adverse effects to resources as a result of the project.

Project Manager GeomorphIS, LLC | Railroad Fire

The Railroad Fire burned approximately 12,400 acres in the Sierra National Forest in 2017. Far Western conducted follow-up fieldwork in 2019 to ensure that archaeological sites were properly flagged and recorded and would be protected during any tree removal activities to allow a timber sale (in portions of the burn area)

to remove hazard trees and reduce fuel load. Dr. Whitaker oversaw and managed archaeological field efforts including revisiting 43 sites or resource elements including six newly identified resources, 11 previously identified resources, and 26 elements of the Madera Sugar Pine Lumber Company Railroad network. The activities associated with these sites may be eligible for listing on the National Register of Historic Places (National Register) under Criterion A. Far Western prepared an Archaeological Survey Management Summary and provided GIS shapefiles that represent the most up-to-date site boundaries as recorded by Far Western.

Project Manager, Co-Author

Geomorph Information Systems, LLC | Carr Fire, Delta Fire, and Hirz Fire

Dr. Whitaker oversaw and managed the cultural resources monitoring and National Register evaluations of 23 sites that may have been impacted by fire suppression activities associated with the Carr Fire, Delta Fire, and Hirz Fire in Shasta County, California, on lands administered by the Shasta-Trinity National Forest. Project components included a records search, relevant background/historical contexts, inventory and evaluations, and preparation of a Records Search and Work Plan and an Archaeological Testing Report. Of the 23 sites, nine are recommended eligible for listing on the National Register, 13 are recommended not eligible, one could not be accessed and therefore could not be evaluated.

Contract Manager, Principal Investigator, Co-Author

California Department of Transportation | Director's Orders Tree Removal

Far Western assisted Caltrans in its efforts to remove thousands of dead and dying trees from the sides of rural highways as part of the 2015 Emergency Declaration (i.e., ongoing drought), which included surveying segments of rural roads subject to nearby tree removal, and monitoring tree removal activities in areas in close proximity to cultural resources in Amador, Calaveras, Fresno, Kern, Madera, Mariposa, Merced, San Joaquin, Stanislaus, Tulare, and Tuolumne Counties, California. Far Western prepared Archaeological Survey Reports and Archaeological Site Conditions Assessment Documents for work along various state route rights-of-way. As Contract Manager/Principal Investigator, Dr. Whitaker managed scope and scale of research required for each task order and ensured compliance with Section 106 of the National Historic Preservation Act.

Contract Manager, Principal Investigator, Co-Author

California Department of Transportation | Director's Orders Hazard Tree Removal Project

Far Western assisted Caltrans in its efforts to remove thousands of dead and dying trees from the sides of rural highways as part of the 2015 Emergency Declaration (i.e., ongoing drought), which included surveying segments of rural roads subject to nearby tree removal, and monitoring tree removal activities in areas in close proximity to cultural resources. Dr. Whitaker oversaw and managed the field inventory efforts along SR 120 (approximately 185 miles of roadway) in Mariposa and Tuolumne Counties, California. Far Western also revisited, flagged, and updated all previously recorded archaeological sites on SR 120 between Priest Station and the entrance to Yosemite National Park when recorded (or newly identified) archaeological sites fell within 200 feet of a tree slated for removal. Far Western prepared Archaeological Survey Reports and Archaeological Site Conditions Assessment Documents to report study findings.

Dustin Lindler

Registered Professional Forester

Dustin Lindler has been working in the forest products industry since 1994 and is the COO of Jefferson Resource Company, Inc. Dustin, with his wife Danielle, purchased Berryman & Associates in 2002 and renamed the company after incorporation. Dustin has been involved in all aspects of forest management for clients ranging from small woodlot sales to large federal timber sales.

Relevant Work Experience

2001 to present : COO. Jefferson Resource Company (formerly Berryman and Associates), Yreka, CA. Manages 100,000 acres of private timberland in California. Prepares Timber Harvest Plans (THP) and Non-industrial Timber Management Plans (NTMP) for most industrial timberland owners in Siskiyou County, large ranch holdings, Siskiyou County Flood Control District Lands and many small non-industrial ownerships. Supervises and conducts timber marking, timber inventory and wildlife surveys. Arranges and provides oversight on timber sales. Oversees professional staff of 40 foresters, biologists and botanists. Developed, performed and provided oversight of forest inventory activities on parcels in Northern California. Performs timber appraisals. Compiled and analyzed inventory data for sustained yield analysis for clients in Northern California. Oversaw multi year gas line program for PGE for the Northern Counties in CA,

2000 - 2001 : Timber Cruiser / Field Technician. Olympic Resource Management, McCloud, CA. Marked timber on several forest tracts in Northern California. Conducted variable plot inventory on parcels near McCloud, CA. Performed check-cruising of contract inventory crews. Conducted and provided oversight of three-person field crew during layout activities on large timber sales in Southwest Oregon.

1999 - 2000 : Planning Forester / GIS Specialist. Alpine Land Information Services, Redding, CA. Responsibilities included writing and layout of THPs, development and maintenance of a GIS database, conducting archaeological surveys. Responsible for harvest scheduling in conjunction with option "a" THP development on large industrial ownerships. Supervised six-person field crew during THP layout and GIS development on timberlands near McCloud, Bieber, Weaverville, Sonora and Arnold, CA. Provided quality control of field crews during layout activities across Northern California.

1997 - 1999 : Forester. Fruit Growers Supply Company, Hilt, CA. Worked as assistant to district forester. Work involved layout and writing of timber harvest plans, including silvicultural determination, yarding method determination and most other operational issues common to THP development. Performed variable and fixed plot inventory on Klamath River, Scott Valley, Trinity and Foresthill timberlands. Conducted pre-harvest timber inventory for calculation of sale volume. Provided oversight of two other field technicians during marking, layout and inventory activities.

1996 : Inventory Technician. Fruit Growers Supply Company, Burney, CA. Conducted variable and fixed plot inventory on Lassen, Burney and Foresthill timber tracts. Performed timber sale layout for several timber sales on Burney and Lassen timberlands. Marked timber for several timber sales on Burney and Lassen timberlands. Cruised blowdown for salvage sale on timberlands near Burney, CA.

1995 : Forestry Technician. A&D Forestry Services, Hydesville, CA. Conducted layout of several timber sales in Northern California ranging from Covelo to Hoopa, CA. Conducted pre-harvest cruising to determine sale volume. Marked timber on several THPs. Additional activities included road layout, silviculture determination, yarding method determination and wildlife surveys.

1994 : Wildlife Technician. Criss & Company Consultants, Redding, CA. Conducted Northern Spotted Owl surveys on several tracts of timberland across Northern California.

Education

BS, Forestry Production, Minors in Business Administration & Environmental Ethics Humboldt State University, 1998

Licenses and Certifications

California Registered Professional Forester No. 2701

Archaeological Training Certificate Course 164R

Cal Fire approved Spotted Owl Expert (SOE)

Professional Memberships

California Licensed Foresters Association.

California Forestry Association



Richard Coid Vitamanti

Site Assessment Team Lead

EXPERIENCE SUMMARY

Mr. Vitamanti is an environmental scientist providing project support of environmental emergency response planning, field survey and sampling operations.

Mr. Vitamanti is trained in the operation and maintenance of equipment for use in field activities. Specific equipment used includes (but is not limited to) radiation detection meters, XRF analyzers, multi-media sampling equipment, and air monitoring equipment such as multi-RAEs, FIDs, and PIDs.

RELEVANT EXPERIENCE

Wildfire Response (CalRecycle/CalOES)

Central Division Fire Incident (2021 Wildfires), Placerville, California, 2021-Current

Northern Branch Fire Incident (2020 Wildfires), California, 2020-Current

Camp Fire Incident, Paradise, California, 2019-2020

Carr Fire Incident, Redding, California, 2018-2019

Acting State Division Planner, Consultant Planner: Developed and maintain all runways for debris and tree crews. Tracked public and commercial through the Special Inclusion process. Facilitated All-Hands, Objectives, Tactics, Planning Meetings. Developed, reviewed, submitted and distributed the Incident Action Plans. Verified contractor and consultant resources a verification. Monitored and reported on bridge and creek crossings that needed to be completed. Developed and distributed priority lists and metrics report. Tracked asbestos abatement and verified that parcels were ready for debris removal and required eligibility reviews. Updated and maintained the Department of Toxic Substance Control Milk Run/Phase 1 Revisit Tracker which identified parcels that needed to be revisited for hazardous waste removal.

Environmental Unit Leader for the wildfire response in Northern California. Performed site hazard assessments and collected ash, soil, and water samples. Site assessment activities include photo documentation, mercury, radiation and VOC screenings, locating utilities and potential hazards, recording ash footprint dimensions, and a creating a survey sketch for each parcel. Managed and maintained Tetraforms database for site assessment and soil

EDUCATION

B.S. in Environmental Science, Hydrology (Honors in the Major), California State University, Chico, 2017

AREAS OF EXPERTISE

Wildfire Assessment

Soil, Groundwater, Surface Water, Soil Gas Sampling

Environmental Emergency Response and Planning

Air Sampling and Monitoring

KEY TRAINING/ CERTIFICATIONS

40-hour OSHA HAZWOPER with 8-hour Refresher

OFFICE

Chicago, Illinois

YEARS OF EXPERIENCE

4 Years

CONTACT

530-798-9772

richard.vitamanti@tetrattech.com

sampling documentation. Field team lead providing environmental support to document the extent of residual metal concentrations during cleanup of wildfire debris and soil. Surface and subsurface confirmation soil samples were collected and screened in the field using an X-Ray Florescence device (XRF) for preliminary identification of metal concentrations in the soil and were used to guide real-time decisions for

Emergency Responder for EPAs Superfund Technical Assessment and Response Team (START)

Shiloh Church Road Site – Nathalie, Virginia, 2020 - Current

Provided field support, oversight, and documentation of field activities related to the removal of various contaminants of concern including trichloroethene, tetrachloroethene, Radium 226, polychlorinated biphenyl (PCBs) compounds, lead, and cadmium. Performed surface soil sampling, residential water sampling, air monitoring, radiation screenings, and XRF screenings of soil for excavation.

Taracorp Industries Soil Site– Lyons, Michigan, 2020 - Current

Provided field support, oversight, and documentation of field activities related to the removal of lead and arsenic contaminated soil. Performed surface and subsurface soil sampling, air monitoring, and XRF screenings of soil for excavation.

Trowbridge Township Dam Area – Allegan, Michigan, 2020 - Current

Provided field support, oversight, and documentation of field activities associated with a time critical removal action in the Trowbridge Township Dam Area, which is located in the Kalamazoo River Superfund Site. The project involves removal of PCB contaminated in-stream sediments and riverbank soils within an approximate 2.4 mile section of the river immediately upstream of the Trowbridge Township Dam in Trowbridge Township, Michigan.

Electro-Plating Services Hexavalent Chromium Release –Madison Heights, Michigan, 2019 - 2020

Provided field support, oversight, and documentation of field activities including soil boring and vapor intrusion investigation. Assisted with sample procurement and management. Collected ambient air, soil, and groundwater samples, and PFAS samples.

Dearborn Refining Site – Dearborn, Michigan, 2019-2020

Provided field support and reported field activities involving quarterly gas monitoring in monitoring wells and gas probes at a former petroleum refinery in Dearborn, Michigan.

Work Under Michigan’s Environment, Great Lakes, and Energy Department

Medical Center Court Apartments Investigation and Mitigation – Ann Arbor, Michigan, 2019-2020

Provided field support, and field oversight, and documented field activities at an apartment complex. Support includes activities such as soil gas, sub-slab soil vapor and indoor air sampling.

further excavation or final confirmation sample collection. Served as the point of contact for the client to answer any questions or concerns throughout the project.

ADDITIONAL EXPERIENCE

Software proficiencies: MS Office (Word, Excel, Power Point, Outlook), MS Teams, Scribe, Collector, Survey123, iForms, VIPER, Google Earth, AQTESolv, MITEQ.

Equipment proficiencies: L Lumex RA-915+, Ludlum 44-9, 19, and 192, Multi RAE Pro, Ultra RAE, AreaRAE, Hach FH950 Portable Flow Meter, YSI Multi Meter, Horiba U-52, Toxic Vapor Analyzer 2020, SPM Flex, DustTrak II, GilAir 3 and 5, GilAir Plus, Aircon-2+, SKC QuickTake High Volume Air Sampler, DustTrak DRX 8534, Olympus and Bruker XRF Analyzers, Hach DR 1900 Portable Spectrometer, Shimadzu TOC-L Series, Shimadzu UV-1800 Spectrophotometer, Hanna Turbidity Meter, Thermo-Orion Multi-Parameter Probe, GPS, Clinometer, Peristaltic and Submersible Pumps, Piezometer Installation.

Sampling techniques: Surface Water Ambient Monitoring Program (SWAMP) Method, Stream Flow Analysis: Area-Velocity Method, Channel Reach Morphology: Montgomery and Buffington (1997) Method, EPA 1969 Ultra Clean Hands/Dirty Hands Grab Sample Method, Soil Moisture Analysis: Gravimetric Sampling Method, Particle Size Analysis: Wolman Pebble Count Method, Colorimetric Analysis of Nutrients, Infiltration Analysis, Measuring of Fuel Load (Brown 1974), Point-Intercept Method, Measuring of Tree's Basal Area.

EMPLOYMENT HISTORY

2019 – Present	Environmental Scientist, Tetra Tech, Inc., Rancho Cordova, CA – Madison Heights, MI – Chicago, IL
2018	Environmental Scientist, Essel Environmental, San Francisco, CA
2017 – 2018	Teaching Assistant, California State University, Chico
2016 – 2018	Research Assistant, California State University, Chico



24 YEARS OF
EXPERIENCE

Areas of Expertise

Hazardous Materials

Industrial Hygiene

Environmental Assessment

Staff Management

Registrations/Affiliations

California Certified Asbestos
Consultant, # 13-5051

CDPH Lead-Related Construction
Inspector/Risk Assessor #484 and
Project Monitor, #483

EPA Lead Inspector

Nevada Asbestos Consultant # IJPM-
1707

Department of Defense Common
Access Card

Key Training/Certifications

AHERA BI, MP, CS, PD –Current

CPR/First Aid, 2003 – Current

NIOSH 582E Microscopy

OSHA HAZWOPER 40 Hour 2003 –
Current

OSHA HAZWOPER Supervisor–
Current

OSHA 30-Hour Construction Safety –
2010

USACE EM 385 1-1 – 2020

Education

Hiram Johnson High School

Lona Pearson, CAC, LRCIA/PM

Asbestos Assessment Team Lead

EXPERIENCE SUMMARY

Ms. Pearson is an environmental professional that has over 24 years of diverse environmental experience with Tetra Tech, Inc. Ms. Pearson conducts hazardous material surveys; asbestos, lead paint, and mold inspections and surveillance; designs abatement work plans and specifications; performs abatement and demolition oversight; provides industrial hygiene equipment testing and personnel monitoring, provides staff training and safety monitoring, and manages teams of technical personnel. Ms. Pearson has worked technically and administratively for government and private clients concerning facility-wide project management and remedial investigation of Superfund Sites. Ms. Pearson has performed Phase I and II Environmental Site Assessments (ESAs) per American Society for Testing and Materials (ASTM) standards for commercial/retail/residential properties construction, and wireless antenna construction. Her varied experience includes site history research; regulator interaction; industrial hygiene; site and hazardous material assessment; staff supervision and management, and report and specification preparation. Ms. Pearson has sampling, data interpretation and reporting experience with most media including air, soil, water (stormwater, groundwater, surface water), fungal/microbial, and building materials. Ms. Pearson has conducted site assessments and investigations in several US states including; Arizona, Alabama, Arkansas, California, Florida, Iowa, Illinois, Kansas, Louisiana, Michigan, Montana, Nevada, New Mexico, New Jersey, New York, North Carolina, North Dakota, Oklahoma, Oregon, Pennsylvania, Texas, Utah, Virginia, Washington and Wisconsin.

RELEVANT EXPERIENCE

Hazardous Materials

Environmental Operations - Asbestos Program Lead for Debris Removal Operations, 2021 California Wildfires, Northern Division and Central Divisions for Sixteen Counties (Alpine, El Dorado, Kern, Lake, Lassen, Mendocino, Nevada, Placer, Plumas, Lassen, Shasta, Siskiyou, Tehama, Trinity, Tuolumne and Tulare), California (2021 – Present)

Ms. Pearson manages up to 16 teams of asbestos consultants, and technical data staff (38 staff) conducting asbestos assessment, asbestos removal, and data management during the wildfire recovery operations with staff deployed within the two divisions in up to eight counties at any one time. Ms. Pearson provides program and staff training, provides suspect asbestos materials identification and sampling, provides data and regulation interpretation, performs abatement oversight and clearance inspections, coordinates schedule of asbestos certified field staff teams, manages data interpretation and assists with coordination of abatement contractors and prime contractor resources. Ms. Pearson communicates strategies and procedures at technical meetings and other interactions with clients (Calrecycle/OES), contractors (BOP, Anvil, ECC), subcontractors, Federal, State and local government and regulatory agencies; and community members.

Environmental Branch Director - Asbestos Program for Debris Removal Operations, North Branch Fires, Nine Counties (Butte, Del Norte, Lassen, Nevada, Plumas, Siskiyou, Trinity, Yuba), California (2020 – Present)

Ms. Pearson manages up to 15 teams of asbestos consultants, and technical data staff (35 staff) conducting asbestos assessment, asbestos removal, and data management during the wildfire recovery operations with staff deployed up to four counties at any one time. Ms. Pearson provides suspect asbestos materials identification and sampling, provides staff training; provides data and regulation interpretation, performs abatement oversight and clearance inspections, coordinates schedule of asbestos certified field staff teams, manages data interpretation and assists with coordination of abatement contractors and prime contractor resources. Ms. Pearson communicates strategies and procedures at technical meetings and other interactions with clients (Calrecycle/OES), contractors (PSP), subcontractors, Federal, State and local government and regulatory agencies; and community members.

Technical Lead, EPA RCRA REPA TBA Program, Region 9 (December 2019 – Present)

Ms. Pearson conducts hazardous material surveys (asbestos, lead-based paint, mold, soil, groundwater) under the EPA Region 9 REPA TBA program. The EPA Region 9 REPA TBA Program scope includes Phase I ESAs, Phase II ESA investigations and reports, Analysis of Brownfields Cleanup Alternatives to evaluate clean up alternatives to address environmental impacts and the production of fact sheets. Ms. Pearson has performed and provided support for Phase II ESAs including conducting environmental sampling (soil, groundwater and building material) to confirm or eliminate recognized environmental conditions (REC) identified during the Phase I ESAs for the sites. Ms. Pearson conducts field work and sampling, develops and interprets field and analytical data, provides reporting of findings, and completes expert technical reviews of documents written by associate staff.

- A hazardous materials assessment of three residential structures on a property planned for redevelopment on behalf of the Elk Valley Rancheria, California. The assessment included an asbestos survey, lead-based paint survey via XRF, a hazardous household waste assessment, soil sampling, and reporting of findings.
- A hazardous materials assessment of a former farmhouse/schoolhouse for proposed structural renovation on behalf of the Goshute Tribe, Utah. The assessment included an asbestos survey, lead-based paint survey via XRF, a hazardous household waste assessment, soil sampling, and reporting of findings.
- A hazardous materials assessment of three commercial structures for proposed renovation on behalf of the Temple Beth Shalom, California. The assessment included an asbestos survey, lead-based paint survey via XRF and chip sampling, polychlorinated biphenols (PCB) sampling, and reporting of findings
- A hazardous materials assessment of 26 vacant and occupied commercial and residential structures proposed for renovation and demolition on behalf of the Pinal County Pinal/Marana Airpark, Arizona. The assessment included an asbestos survey, lead-based paint survey via XRF and chip sampling, soil sampling, mold assessment, and reporting of findings.
- A hazardous materials assessment of an active and occupied eight suite commercial structure proposed for renovation and building code upgrades, on behalf of the city of San Manuel, Arizona. The assessment included an asbestos survey, lead-based paint survey via XRF and chip sampling, soil sampling, mold assessment, and reporting of findings.

Environmental Branch Director - Asbestos Program for Debris Removal Operations, Camp Fire Incident, Butte County, California (2019 – 2020)

Ms. Pearson directly managed 25 teams of asbestos consultants and technical data management staff (over 60 staff) conducting asbestos assessment, asbestos removal, and data management during the wildfire recovery operations in the cities of Butte County (Paradise, Concow and Magalia) affected by the Camp Fire Incident, where over 12,000 properties were affected and destroyed. Ms. Pearson provides suspect asbestos materials identification and sampling, provides staff training; provides data and regulation interpretation, performs abatement oversight and clearance inspections, coordinates schedule of asbestos certified field staff teams, and assists with coordination of abatement contractors and prime contractor resources. Ms. Pearson communicates strategies and procedures at technical meetings and other interactions with clients (Calrecycle/OES), contractors (ECC, SPSG, CERES), subcontractors, Federal, State and local government and regulatory agencies; and community members.

Technical Lead / Resource Director - Hazardous Materials Assessment and Debris Removal Operations, Multiple Locations in California (2015 – 2018)

Ms. Pearson acted as Tetra Tech's technical lead for asbestos assessment and removal oversight during wildfire recovery operations in California. Ms. Pearson has led teams of asbestos consultants in these services for seven major fire events - Middletown Fire in Lake County, assessed approximately 200 commercial structures – client AJ Diani; Erskine Fire in Kern County, assessed approximately 300 residential properties – clients Calrecycle/OES, Kern County; Clayton Fire in Lake County, assessed approximately 150 residential properties – clients Calrecycle/OES, Lake County; Detwiler Fire in Mariposa County, assessed approximately 350 residential properties– clients Calrecycle/OES, Mariposa County; Helena Fire in Trinity County, assessed approximately 110 properties – clients Calrecycle/OES and Trinity County; and Thomas Fire in Ventura County, assessed approximately 600 residential properties – clients Calrecycle/OES and Ventura County; CARR Fire – Redding assessing approximately 1,200 residential properties; clients Calrecycle/OES, Shasta County and City of Redding. Ms. Pearson provided suspect asbestos materials identification and sampling, provided data and regulation interpretation, performed abatement oversight and clearance inspections, coordinated schedule of asbestos certified field staff teams and assists with coordination of abatement contractors.

Technical Lead – Hazardous Materials Assessment for Debris Removal Operations, Northern California Wildfires Sonoma County, California (2017)

Ms. Pearson acted as Tetra Tech's CAC lead for asbestos assessments during the Northern California wildfire federal agency response action in the City of Santa Rosa. Ms. Pearson performed assessments, laboratory coordination, and assessment data interpretation and provided fire-related assessment training, on-going technical guidance, and management of subcontracted asbestos consultants. Clients included US Army Corps of Engineers and Ashbritt Environmental.

Environmental Professional, Hazardous Materials Pre-Renovation Survey (Asbestos, Lead Based Paint, Mold, and Household Hazardous Waste) Military Facility Structure Upgrades (2016 – Present)

Ms. Pearson is the technical leader of a team of Tetra Tech scientists conducting hazardous materials renovation surveys at active military bases throughout the United States in preparation for structure upgrade or demo activities. Ms. Pearson conducts the surveys, interprets sample results and writes the survey reports.

- NAS Lemoore, Lemoore, CA– Commissary Building
- Yuma MCAS, Yuma, AZ – Commissary Building
- NAF El Centro, El Centro, CA – Commissary Building
- DMAFB Tucson, AZ – Building 5406, Building 5045, Building 5314
- NFARS, Niagara Falls, NY – Building 907-905, Building 917/915
- Beale AFB, Marysville CA, - Repair Fuel Cell, Dock 4, Building 1077
- JBLM, Tacoma, WA – Elementary School conversion
- TAFB, Panama Beach, FL –Demolition Buildings 214, 131 and 138
- NAS/JRB Ft Worth, Ft Worth TX – Commissary Building
- Grand Forks AFB, Grand Forks, ND – Building 203
- LRAFB, Jacksonville, AR – Hangar Building 282
- ILANG, Springfield IL, Building P19
- JANG, Jacksonville FL- Building 1006 – Logistics Readiness
- PAFB, Brevard County, FL – Bldgs 264, 265, 404, 429, 543, and 577
- USARC Manitowoc, Manitowoc, WI – Administration Building
- MCLB Barstow, Barstow CA – Building 364 Commissary Building
- JBLM YTC, Yakima, WA – YTC Wastewater Treatment Plant
- IL ANG, Scott AFB, IL - Building 5022
- Fort Hood, TX – Commisary Building
- Tinker AFB, OK – Building 230

Field Team Lead – Hazardous Materials Assessments for Facility Decommissioning Operations, Georgia Pacific Paper, Alabama and Arkansas (2020)

Ms. Pearson acted as field lead for a team of Tetra Tech building inspector's during pre-demolition/decommissioning facility assessments for two large active paper manufacturing facilities. Ms. Pearson coordinated field activities with team members and facility points of contact, including schedule, safety, sample and data management and performed field assessments with team members. The assessments included sampling and quantity estimation of suspect asbestos materials, X-Ray fluorescence (XRF) screening of damaged and intact paint suspected to contain lead, naturally occurring radiological materials screening and conducting a walkthrough inventory of other hazardous materials present at each facility.

Field Team Lead – USCG Safe Housing Initiative, Residential Hazard Assessments, Petaluma, California (2020)

Ms. Pearson led a six person team of Tetra Tech inspectors conducting residential property assessments of occupied and vacant single and multi-family housing at an active military training installation. The assessments included asbestos survey and sampling, lead-based paint surveys and risk assessments (including XRF screening, dust wipe sampling and soil sampling) and Radon testing. The team completed assessments of 97 individual units within a 3 week window. Ms. Pearson coordinated field activities with team members, base housing staff and residents, conducted property assessments, and managed sample shipments and laboratory data management.

Technical Lead - USPS Environmental Services and Minor Construction for Area 4, Multiple Locations in Area 4 and Nationwide (Ongoing)

Ms. Pearson is the technical lead of Tetra Tech industrial hygienists (IH) providing first level review of asbestos survey reports for the Roofing Asset Management Program (RAMP), providing abatement work plan development and review services for roof abatement, and assessment surveys. The IHs document their review on USPS' First Level Asbestos Roof Survey Report checklist. In multiple survey reports, the IHs have noted lack of proper or current inspector or laboratory certifications, insufficient sampling methodology, failure to follow more stringent state regulations, failure to perform USPS-required transmission electron microscopy non-friable organically bound (TEM NOB) laboratory analysis, and other issues that could expose USPS to liability. Ms. Pearson also conducts building inspections (asbestos, lead, mold) and environmental assessments of current or future own/lease facilities and provides third party oversight services during abatement activities.

Technical Lead – Hazardous Materials Services, Rental Car Quick Turnaround (QTA) Structure, Portland International Airport, Portland, Oregon (2017)

Ms. Pearson conducted a pre-demolition survey for the Portland Airport QTA before the vehicle maintenance operations were moved to their new facility. Ms. Pearson coordinated field activities with airport security and points of contact for the five rental car agencies active at the facility. The survey included sampling and quantity estimation of suspect asbestos materials, damaged and intact paint suspected to contain lead, and an inventory of other hazardous materials that required removal prior to building demolition. Ms. Pearson, conducted the surveys, interpreted sample results, and authored the survey reports. No asbestos containing materials or lead-based paint were identified during the survey.

Project Manager - Industrial Hygiene Services, AMPAC Fine Chemicals, Sacramento, California, (2006 – Present)

Ms. Pearson served as lead professional personnel for on-call industrial hygiene services for AMPAC Fine Chemicals. Ms. Pearson performs fume hood testing of laboratory work areas to ensure worker safety according to regulations, supplied air (grade D breathing air) testing and certifications, leak detection and repair (LDAR) testing of process equipment lines according to Sacramento Metropolitan Air Quality Control Board regulations, and respirator fit testing for employees using quantitative assessment for various types of respirators to ensure that all environmental, health and safety regulations are met according to OSHA standards. Ms. Pearson has also conducted asbestos materials inspection, passive badge testing and employee observations during testing.

Environmental Professional, Industrial Hygiene and Abatement Contractor Oversight Services, CenturyLink Garage, Billings, Montana (2015)

Ms. Pearson provided air monitoring and contractor oversight services during abatement of asbestos containing material (ACM) vinyl floor tiles associated mastic and wallboard within an occupied office area of the Billings garage. Ms. Pearson monitored the abatement contractor's procedures and controls for compliance with applicable regulations, performed perimeter air

sampling to monitor effectiveness of engineering controls and prevent employee exposure, conducted post abatement inspections for removal completion and conducted final air clearance sampling for re-occupancy of the work area.

Environmental Professional, Environmental Compliance Due Diligence in Support of the United States Coast Guard Housing Sales: Three Housing Locations in California (2014 – 2016)

Ms. Pearson was part of a team of Tetra Tech scientists that conducted Phase I Environmental Due Diligence Audit (EDDA) investigations at three northern California United States Coast Guard (USCG) surplus properties (101 structures) planned for disposal. The EDDA were performed following 1998 Civilian Federal Agency Task Force Guide on Evaluating Environmental Liability for Property Transfer (CFATF Guide). The EDDA scope of work also included lead-based paint (LBP) inspection and condition assessment using X-Ray fluorescence (XRF) hand held analyzers, dust wipe sampling, and lead in soil sampling for housing units constructed prior to 1980. ACM survey and condition risk assessment survey were also conducted for all structures within the three housing villages. Ms. Pearson coordinated site visit logistics between site owners, site contacts and Tetra Tech personnel as well as scheduling equipment logistics and laboratory analyses. Ms. Pearson also acted as field team lead and point-of-contact for each housing village, coordinated field staff and subcontractors; performed XRF, dust wipe and soil sampling; performed ACM sampling, interpreted sample analysis, and authored the summary reports.

Environmental Professional, Hazardous Materials Services, Rockridge Shopping Center, Oakland, California (2014 – 2018)

Ms. Pearson was the field team leader of a team of Tetra Tech scientists that conducted a hazardous materials demolition survey of a strip-type mall containing two anchor stores, 12 retail tenant spaces and a separate free-standing bank. The survey including sampling and quantity estimation of ACM and damaged LBP and a detailed inventory of other hazardous materials (HHW) requiring removal prior to building demolition. Ms. Pearson coordinated field activities with the property manager and each tenant, scheduled Tetra Tech staff, conducted the surveys, interpreted sample results, authored the survey reports, wrote abatement specifications and conducted a bid walk with prospective abatement contractors. Ms. Pearson also performed oversight and air monitoring during abatement to verify compliance with regulatory requirements and verify removal completion. Ms. Pearson also initiated communication with local regulatory agency representatives as needed, to ensure compliance with regulations and reduce cost of waste disposal.

Environmental Professional. Boulder City Bypass Naturally Occurring Asbestos Project, Phase I Site Characterization, Railroad Pass to Silverline Road, Boulder City, Nevada (2014 – 2017)

Ms. Pearson was part of Tetra Tech's team of scientists that conducted the Nevada Department of Transportation (NDOT) Boulder City Bypass (BCB) Phase I site characterization project. The site characterization project defined the concentrations of naturally-occurring asbestos (NOA) in soils and bedrock materials that will be disturbed during road construction and determine the potential NOA levels during that construction and potential health risks to construction workers and community residents. The NOA concentration determinations supported an initial estimate of the human health risks from potential exposures to NOA, specifically for the construction workers and community residents. Ms. Pearson participated in collection of hundreds of surface soils, subsurface soils, deep alluvial materials, and bedrock samples for determination of actinolite concentrations along the nearly 15-mile-long project. Ms. Pearson also provided industrial hygiene services including air sampling equipment staging and calibration, personal air monitoring, and coordination of activity-based air sampling for each task expected during the construction project. Ms. Pearson also conducted exposure assessment sampling (air and dust) during aggregate processing in the Carson City and Las Vegas, Nevada materials processing facilities.

Environmental Professional, Asbestos Reevaluation Investigation of Inland Area Buildings, Former Naval Weapons Station, Seal Beach Detachment, Concord, California (2013 – 2014)

Ms. Pearson was part of a team of Tetra Tech scientists that completed an asbestos reevaluation (AR) to assess and report the current condition of known asbestos-containing materials (ACM) at all the buildings in the Inland Area at former Naval Weapons Station Seal Beach Detachment (NAVWPNSTA) Concord. The project involved three phases of work: (1) Phase 1 research phase, requiring a review of historical Navy and contractor asbestos inspection and abatement reports to determine the historical condition of ACM at the base; (2) Phase 2 field investigation phase, documented the presence and current condition of ACM identified in previous surveys and those surveyed for the first time, and (3) Phase 3, the reporting phase that presented the

information gathered from the previous assessment and abatement reports and the current status of ACM in each building and provides recommendations of possible O&M or abatement requirements, if needed. Asbestos reevaluation surveys were performed for 60 previously surveyed buildings and structures, and initial surveys were completed at 72 buildings and structures and 19 of the 190 munitions bunkers. Ms. Pearson was involved in all phases of the project and was field team lead during field investigation activities.

Environmental Professional, Hazardous Materials Services, RESD - Chiller Line Upgrade, California Department of Corrections, California Medical Facility, Vacaville California (2012 – 2014)

Ms. Pearson conducted a limited hazardous material survey for the chiller upgrade project in Wing A, Wing B and Little Wing at the CMF facility that identified asbestos and lead-based paint within the project areas, requiring abatement prior to renovation activities and a work plan was prepared. As field lead, Ms. Pearson performed air monitoring services, assessment services as needed, abatement oversight, and final visual and air clearances. Ms. Pearson also prepared the project's final abatement report.

Environmental Professional, Asbestos-Containing Materials Surveys, Bureau of Land Management Properties, Northern and Central California on Behalf of Aarcher, Inc. (2013)

Ms. Pearson was part of a two-person Tetra Tech team that conducted AHERA protocol asbestos surveys, abatement cost estimating, and reporting for Government facilities in the Bureau of Land Management's (BLM) Northern California District Office and Central California District Office regions. Approximately 30 structures were surveyed within northern California including the Arcata, Redding, Alturas, Surprise, and Eagle Lake Field Offices. Approximately 50 structures were surveyed in central California and included the Carrizo Plain National Monument, Bakersfield, Hollister, Motherlode, and Bishop Field Offices. The surveys were completed under budget, on time with an expedited schedule.

Environmental Professional. Hazardous Material Assessment, AMC Theatres, Various Locations throughout the United States (2013 – Present)

Ms. Pearson is part of a team of Tetra Tech professionals performing asbestos, lead paint and mold hazardous materials surveys of movie theaters proposed for acquisition and renovation. As field team lead, Ms. Pearson ensures each survey is completed per client specific work plan and data documentation procedures, ensures the projects remain in compliance with all applicable regulations, and ensures the survey team perform safely without risk to team, occupants or public. Ms. Pearson has completed projects for this client in states across the United States.

Environmental Technician. Hazardous Materials Services, Coddington Mall Renovation and Demolition Project. Coddington Mall, Santa Rosa, California (2012 – 2013)

Ms. Pearson was part of a team of Tetra Tech professionals that conducted pre-demolition hazardous material services of a large retail mall, including a two-story Gottschalks anchor store and 46 retail stores comprising approximately 180,000 square feet of floor space. Ms. Pearson was part of a three-person team that conducted a hazardous material building survey to identify asbestos, lead paint, mercury containing light tubes and thermostats, and potential PCB containing light ballasts that would be disturbed during the abatement and demolition. Ms. Pearson also assisted with preparation of the hazardous materials abatement and demolition design work plan to remove materials identified during the survey. Ms. Pearson facilitated the contractor bid walk and assisted the client with contractor evaluation and selection recommendations. Ms. Pearson provided continuous on-site abatement oversight, air monitoring and clearance inspections and sampling over the course of the project and authored the final abatement report.

Environmental Technician, Hazardous Materials Services, Libby Amtrak Station – ADA Improvements, Libby Asbestos Superfund Site, Libby, Montana (2011)

Ms. Pearson conducted oversight and industrial hygiene services that involved air monitoring, soil sampling, and project documentation throughout the excavation phases of the Americans with Disabilities Act (ADA) improvements on the passenger ramp at the Libby Amtrak station. The oversight and air monitoring protocol were based on guidelines outlined in the work plan titled Site-Specific Asbestos Project Work Plan, Contract #1033, Amtrak ARRA Program at Libby, Montana, dated June 24, 2011. The asbestos project work plans addressed worker protection and other health and safety precautions related to excavation of soil that may contain vermiculite and asbestos fill materials within Operable Unit 6 (OU-6) of the Libby Asbestos Superfund Site. The U.S. EPA is the lead agency for the Libby Asbestos Superfund Site and the U.S. Army Corp of Engineers (USACE) is supporting

EPA with the removal activities in various operable units within the Superfund site. Ms. Pearson provided daily air monitoring, soil sampling for vermiculite during construction, monitored worker health and safety procedures and conducted visual and air clearances at completion of the project. Ms. Pearson also authored the project's final summary report.

Environmental Technician, Hazardous Materials Services, California Conservation Corps (CCC), RESD - Tahoe Base Center Relocation, Meyers, California (2010 – 2013)

Ms. Pearson conducts hazardous materials abatement oversight, industrial hygiene services and final clearance air sampling for asbestos and mold on behalf of the California DGS-RESD. Ms. Pearson's duties included (1) monitoring and documenting contractors' abatement work methods, (2) performing perimeter and worker excursion and duration air monitoring and providing for air sample analysis, (3) conducting visual clearance inspections of each regulated area upon completion of asbestos abatement, lead-related removal, and molded building materials abatement; (4) providing air clearance monitoring prior to deregulating regulated work areas, and (5) preparing final reports of activities after each phase of the project.

Environmental Technician, Hazardous Material Assessment, RESD Oroville Department of Motor Vehicles, Oroville, California (2011)

Ms. Pearson led a team that conducted a limited hazardous material building inspection for asbestos and lead based paint that would be disturbed during the planned heating, ventilation and air conditioning upgrades at the site. Ms. Pearson prepared the Health and Safety Plan, Sampling and Analysis Plan, conducted the survey and produced the results report of the survey. Americans with Disabilities Act renovations were also planned for the site; however, Ms. Pearson assisted the client with a review of previously conducted hazardous materials surveys completed at the facility. Results of the previous report reviews eliminated the need for additional construction material sampling and resulted in a substantial cost reduction for the client.

Environmental Technician, AFCEE Hurlburt Field, Hazardous Material Assessment, Fort Walton Beach, Florida (2010)

Ms. Pearson was part of a team of Tetra Tech professionals that conducted a pre-renovation hazardous materials survey (asbestos and lead-based paint) for Dormitory 90334 at Hurlburt Field near Fort Walton Beach, Florida. Ms. Pearson collected bulk samples of suspect building materials and paint chips, quantified suspect materials, and prepared chain of custody paperwork and samples for shipping.

Project Manager, 500 4th Street, Limited Asbestos and Lead-based Paint Investigation, West Sacramento, California (2010)

Ms. Pearson conducted a pre-renovation inspection and sampling survey for potential asbestos containing building materials and damaged lead-based paint that could be disturbed during structure remodeling activities. Ms. Pearson prepared the sampling and analysis plan, health and safety plan, collected samples, interpreted laboratory results, and prepared the summary report of findings. Ms. Pearson also recommended specific materials handling and worker protection methods based on investigation results.

Environmental Technician, On-Call Hazardous Materials Surveys, Private Pharmaceutical Chemical Manufacturer, Rancho Cordova, California (2010 – Present)

Ms. Pearson conducts on-call hazardous material (asbestos) surveys of suspect building construction materials prior to remodeling or disturbance. Ms. Pearson conducts the sampling, interprets laboratory analyses, interprets regulations applicable to analyses and recommends materials handling and worker protection levels in each project summary report.

Environmental Technician, Caltrans FRE-168pm45-65 Shaver Lake Limited Environmental Assessment Bridges BR 42-0111, BR 42-0121, BR 42-0122, Fresno County, California (2010)

Ms. Pearson was project manager for a limited environmental assessment for the California Department of Transportation (Caltrans) under the Caltrans quick response contract. The limited environmental assessment activities were conducted at three Highway 168 bridges planned for repair and construction in eastern Fresno County. The limited environmental assessment included pre-construction air monitoring - up wind and downwind of each bridge structure, an asbestos survey of bridge construction materials, a lead-based paint survey of bridge coatings, and limited soil sampling for metals along the roadway shoulders at each bridge. Ms. Pearson authored the project work plan and health and safety plan, collected samples of all proposed media, interpreted laboratory sample analyses, and authored the project's final summary report.

Environmental Technician, Environmental Assessment Services, City of Cedar Rapids, Cedar Rapids, Iowa (2010)

Ms. Pearson was part of a team of Tetra Tech professionals that conducted pre-demolition asbestos and mold surveys, household hazardous waste identification, and pre- and post-abatement visual inspections of 1,500 flood damaged residential properties in the City of Cedar Rapids. The work was conducted under the direction of the Federal Emergency Management Agency (FEMA), in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations as adopted by the U.S. Environmental Protection Agency (EPA). The assessments performed include the collection of asbestos-containing building materials and molded building materials and inventorying household hazardous waste, chemicals and appliances. Visual inspections of abatement areas were completed to ensure hazardous materials were removed per scope of work prior to building demolition and parcel restoration.

Environmental Technician, Troy Asbestos Property Evaluations (TAPE) (Libby Superfund Site), Troy, Montana (2009)

Ms. Pearson was part of a team of Tetra Tech scientists working for the State of Montana Department of Environmental Quality (DEQ) and the EPA Region 8 to perform property evaluations of all residential, commercial and roadway properties throughout the town of Troy, Montana. Ms. Pearson performed environmental investigations to search for Libby Amphibole (LA) contamination, which is associated with the vermiculite mine of Libby, Montana. Ms. Pearson conducted interior and exterior structure investigations, soil sampling, resident interviews, and aggressive attic inspections to determine whether LA-contaminated vermiculite had been transported to these sites and if it exists at concentrations that pose risks to human health.

Project Manager, Vagabond Inn - Limited Asbestos and Lead-based Paint Investigation, Rancho Cordova, California, (2009)

Ms. Pearson conducted a pre-renovation inspection and sampling survey for potential asbestos containing building materials and potential lead-based paint that could be disturbed during hotel remodeling activities. Ms. Pearson prepared the sampling and analysis plan, health and safety plan, collected samples, reported findings and submitted investigation results to the local permitting agency.

Environmental Technician, Asbestos Surveys for Vandenberg Air Force Base, California (Army Corp of Engineers and Environmental Flight Plan, Vandenberg Air Force Base) (2008 – 2009)

Ms. Pearson was part of a team of Tetra Tech scientists that conducted hazardous building material surveys for asbestos on Vandenberg Air Force Base facilities encompassing approximately 600 buildings and 3,250,000 square feet. The purpose of these surveys is to evaluate the buildings for the presence, quantity, locations, and characterization of ACM that may require pre-renovation/demolition abatement in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations as adopted by the U.S. Environmental Protection Agency (EPA).

Environmental Technician, Hazardous Materials Services, AOC Sisk Building, Fresno, California (2008 – 2009)

Ms. Pearson was part of a team of Tetra Tech scientists conducting hazardous materials abatement oversight and final clearance air sampling. Duties include visual clearance of asbestos abatement areas, containment inspection, and final clearance air monitoring for the work areas as described in the abatement specifications. The final clearance air monitoring was performed by phase contrast microscopy (PCM) analysis as specified in 40 CFR 763 to determine the acceptability of the work areas for re-occupancy without the use of personal protective equipment.

Project Manager, Hazardous Material Survey for Alvarado Middle School, Union City, California (2008)

Under direction of a Certified Asbestos Consultant, Ms. Pearson led a team that conducted a hazardous material building inspection for asbestos, lead-based paint, mercury switches and lighting ballasts of an occupied school building. Ms. Pearson prepared the Health and Safety Plan, Sampling and Analysis Plan, conducted the inspection, and prepared the results report of the survey.

Environmental Technician, Limited Soil Investigation, Sacramento Municipal Utilities District (SMUD), Sacramento, California (2008)

Ms. Pearson led a team that conducted a limited soil investigation for asbestos in soil at the SMUD former nuclear generation plant Rancho Seco, California. Ms. Pearson prepared the Health and Safety Plan, Sampling and Analysis Plan, conducted sampling, and prepared the results report of the investigation.

Emergency Response

Technical Lead - Hazardous Materials Assessment and Debris Removal Operations, Multiple Locations in California (2015 – 2018)

Ms. Pearson is Tetra Tech's field lead CAC for asbestos assessment and removal oversight during wildfire recovery operations in California. Ms. Pearson has led a team of asbestos consultants in these services for five major fire events - Middletown Fire in Lake County, assessed approximately 200 commercial structures – client A.J. Diani; Erskine Fire in Kern County, assessed approximately 300 residential properties – clients Calrecycle/OES, Kern County; Clayton Fire in Lake County, assessed approximately 150 residential properties – clients Calrecycle/OES, Lake County; Detwiler Fire in Mariposa County, assessed approximately 350 residential properties – clients Calrecycle/OES, Mariposa County; and Helena Fire in Trinity County, assessed approximately 110 properties, – clients Calrecycle/OES and Trinity County; Thomas Fire in Ventura County, assessed approximately 500 residential properties – clients Calrecycle/OES and Ventura County. Ms. Pearson provided suspect asbestos materials identification and sampling, provides data and regulation interpretation, performs abatement oversight and clearance inspections, coordinates schedule of asbestos certified field staff and assists with coordination of abatement contractors.

Environmental Technician, Enbridge Line 6B Pipeline Release – U.S. EPA START Response, Marshall, Michigan (2011)

Ms. Pearson was part of a team of Tetra Tech scientists conducting fieldwork to characterize and delineate the extent of submerged oil in the Kalamazoo river channel, oxbows, islands and ponds. Ms. Pearson accessed remote river locations by air boat and conducted an innovative method of real time assessments of visually assessing areas of mobilized subsurface oil and then mapping them using a Leica global positioning satellite (GPS) unit. This innovative approach worked to confirm the effectiveness of ongoing cleanup activities and help focus submerged oil recovery efforts along the river. Ms. Pearson also delineated buoy placement locations and verified cleanup areas. The team also developed a quality control program to determine the effectiveness of measuring and mobilizing submerged oil from river sediments at decreasing temperatures. This program was used to confirm to regulatory agencies when cleanup efforts should be completed for the season due to decreasing surface water temperatures.

Environmental Technician, EPA START Support for the Pittsburg Zinc Investigation. Pittsburg, Kansas (2009)

Ms. Pearson conducted field work for the EPA Region 7 START Pittsburg Zinc project in Pittsburg, Kansas. Her work included surface soil sample collection in sensitive receptor areas such as schools, parks, and daycares; x-ray fluorescent (XRF) screening for lead; and reporting activities.

Environmental Technician, EPA START Emergency Response Support for the Iowa 2008 Flood Event (2008)

Ms. Pearson provided on-site response support during the Iowa River floods in eastern Iowa. Ms. Pearson conducted air-sampling using real-time DataRam particulate analysis and asbestos TEM cassette sampling, monitored sampling results and reported daily activities and schedule. Ms. Pearson also conducted hazardous waste site reconnaissance to identify hazardous materials and bulk petroleum tanks/vessels that were swept from their associated facilities into the river, and onto private properties located along the flood line of the Iowa River. Ms. Pearson also interacted with community members and scheduled materials pick up.

Site Investigation

Environmental Technician, Military Ocean Terminal Concord, Litigation Area, Long-Term Groundwater Monitoring, Concord, California (2011)

Ms. Pearson was part of a team of Tetra Tech scientists conducting long-term monitoring of contaminant transport within the Litigation Area marsh surface and slough, during semi-annual monitoring events. Field work includes multiple mobilizations for collection of groundwater, slough sediment, marsh surface sediment, soil, slough surface water, plant and invertebrate tissue, and groundwater water level data. Ms. Pearson's duties include groundwater depth measurement, well development, low-flow sample collection using peristaltic pumps, sample preparation and packaging, and chain-of-custody documentation.

Environmental Technician, Groundwater Monitoring, NRTF Dixon, Dixon, California (2010)

Ms. Pearson was part of a team of Tetra Tech scientists working for the U.S. Navy collecting groundwater monitoring data to support remedial investigation activities at Installation Restoration (IR) Sites 1, 2, 3 and 4. Ms. Pearson collected groundwater using low-flow micro purge pumps. Her duties include groundwater well development, sample collection at multiple well sites,

recording detailed information relating to each well (purge rate, flow volume, etc.), preparing samples for the lab (labeling, bottling, packaging, etc.), and preparing chain of custody paperwork.

Field Technician, Domestic Well Monitoring Program, Yerington Mine Site, Yerington, Nevada; Environmental Protection Agency, Region IX (2010 – Present)

Ms. Pearson is part of a team of Tetra Tech scientists performing domestic well water sampling for contaminant characterization and potential migration analysis of mine related chemicals within the water table. On behalf of the EPA, Tetra Tech collected water samples from selected residential wells concurrently with the consultant for the former mine. Her duties included sample collection at multiple well sites, recording detailed information relating to each well (water quality parameters, flow volume, etc.); preparing samples for the lab (labeling, bottling, packaging, etc.), and preparing chain of custody paperwork.

Environmental Technician, Phase I Environmental Site Investigation, Sacramento Municipal Utility District Sacramento, California (2009)

Ms. Pearson conducted a Phase I ESA for three contiguous parcels of industrial land equaling approximately 16 acres. The property was previously used as electrical cogeneration plant and is suspected to contain unregulated fill from historical landfill activities. Several on site and off site recognized environmental concerns (RECs) were discovered and a Phase II ESA investigation was recommended.

Environmental Technician, Groundwater Monitoring, Naval Air Station Lemoore, Lemoore, California (2009)

Ms. Pearson was part of a team of Tetra Tech scientists working for the U.S. Air Force collecting annual groundwater monitoring data to support remedial investigation activities at Installation Restoration (IR) Sites 5 and 14. Ms. Pearson collected groundwater using low-flow micro purge pumps and with manual bailers. Her duties include gathering samples at multiple well sites, recording detailed information relating to each well (purge rate, flow volume, etc.), preparing samples for the lab (labeling, bottling, packaging, etc.), and preparing chain of custody paperwork.

Environmental Technician, Storm Water Sampling, Caltrans, Northern California (2008 – 2011)

Ms. Pearson is part of a team of Tetra Tech scientists working for the California Department of Transportation on the Porous Pavement Storm Water monitoring project in Davis, Red Bluff, and Marysville, California. Her duties include gathering samples at multiple monitoring stations, recording detailed information relating to each site (collection time, rainfall amount, etc.), preparing samples for the lab (labeling, bottling, packaging, etc.), preparing chain of custody paperwork, and resetting monitoring stations.

Environmental Technician, Remedial Investigation/Feasibility Study, Aerojet Corporation, Sacramento, California (2005 – 2009)

Ms. Pearson provided technical and administrative support for a team of Tetra Tech scientists on remedial investigation and feasibility study planning and investigation for a 5,900-acre Superfund site that was used to develop rocket propulsion systems. Activities included preparation of sampling and analysis plans and quality assurance project plans for multiple operable units. This has involved reviewing historical information, aerial photo review, compilation of past data, preparation of site summaries, and site reconnaissance. Administrative duties include report preparation, formatting, and production, and monitoring well log development.

Environmental Technician. Phase I and II ESA, DR Horton/Western Pacific Housing, Central and Northern California, and Oregon (2003 – Present)

Ms. Pearson is part of the team of Tetra Tech scientists working for DR Horton/Western Pacific Housing in the completion of real estate due diligence reporting including Phase I and Phase II Environmental Site Assessments. The team also conducts soil sampling of historical agricultural land prior to its redevelopment as residential land, emergency response actions, and asbestos and lead-based paint surveys. The team has completed hundreds of projects for this client in Central and Northern California.

Environmental Technician, Phase I ESA and NEPA Compliance, Telecommunication Companies throughout California (2000 – 2004)

Ms. Pearson was part of a team of Tetra Tech scientists working for private clients in the completion of real estate due diligence reporting under ASTM Phase I Environmental Site Assessments and Transaction Screening Process for wireless antenna sites and

commercial/retail locations. The team also completes NEPA reports for construction of wireless antenna sites. The team completed over 300 Phase I ESA and NEPA reports for clients in California, Nevada and Colorado.

Project Administration

Project Administrator. Base Wide Program Management, U.S. Navy Alameda Point/FISCA. Alameda, California (2003 – 2011)

Ms. Pearson provided project management support for the U.S. Navy base wide project management program at the former Naval Air Station Alameda, Alameda Point, and the Fleet Industrial Supply Center Oakland/Alameda Annex (FISCA), in Alameda, California. Ms. Pearson managed community and regulatory meetings, tracked regulatory schedules, coordinated public relations activities and interfaced between the Navy, regulatory agencies, and the public.

Environmental Technician, U.S. Navy Alameda Point (2000 – 2011)

Ms. Pearson has provided technical, project management and data management support to the RI/FS, RCRA, UST, and conveyance programs at the former U.S. Navy Alameda Naval Air Station (Alameda Point), which is a Superfund site. Activities included preparation of project documents including but not limited to remedial investigation (RI) and feasibility study (FS) reports, technical memorandums, proposed plans and records of decision; participation in Base Realignment and Closure Cleanup Team and Restoration Advisory Board meetings; maintaining documentation of and negotiation of Navy and regulatory agency agreements; and project schedules. Ms. Pearson also co-authored the draft base wide finding of suitability for transfer (FOST) report.

Environmental Technician, Naval Computer and Telecommunications Station, U.S. Navy, Stockton, California (1998 – 2002)

Ms. Pearson performed data management support and assisted Tetra Tech project chemists and scientists conducting remedial investigation projects at NCTS Stockton. Three of the largest Contract Task Orders (CTO), when combined, required collection, analysis, and data validation of over 5000 samples. Analyses required included CLP Semi volatiles, CLP Volatiles, CLP Metals, CLP Pesticides, volatile and semi volatile TPH, California Waste Extraction Technique (WET) analyses, and landfill gases, as well as analyses performed by mobile laboratories at the site. Ms. Pearson reviewed laboratory data packages, logged analyses into SAMTRAK database, reviewed data validation packages and prepared hard copy data packages for storage.

ADDITIONAL TRAINING/CERTIFICATIONS

ASTM Technical and Professional Training, 'Environmental Site Assessments for Commercial Real Estate', March 2001

California Department of Public Health (CDPH) - Lead in Construction Inspector and Risk Assessor Training, 2010 – Current (general lead refresher)

CDPH - Lead in Construction Supervisor and Project Monitor Training, 2015 – Current (general lead refresher)

CPR/First Aid, 2003 – Current

OSHA Hazardous Waste Operator (HAZWOPER 40 Hour Training) 2003 – Current

OSHA HAZWOPER Supervisor - Current

OSHA 30-Hour Construction Safety – 2010

EPA Accredited:

- Asbestos Inspector Training, 2008 – Current
- Asbestos Management Planner Training, 2008 – Current
- Asbestos Contractor Supervisor Training, 2008 – Current
- Asbestos Project Designer Training, 2013 – Current

EPA Certified Lead-Based Paint Inspector - Current

EMLab P&K:

- Mold: Health Effects, Sampling and Data Interpretation 2011, 2012, 2018
- Strategies for Mold Investigations and Sampling, 2014, 2015, 2017
- The Science and Ambiguity of Asbestos Testing, 2013, 2015
- Bacteria, including Legionella, and MRSA, Allergens and Risk Communication, 2012

EPA Introduction to Mold and Mold Remediation for Environmental and Public Health Professionals

FEMA: IS-00100.b Introduction to Incident Command System ICS-100

FEMA: IS-00200.b ICS for Single Resources and Initial Action Incident, ICS-200

Florida Asbestos Inspector –expired

Illinois Asbestos Inspector - expired

Nevada Asbestos Abatement Consultant – current

North Dakota Asbestos Inspector – expired

NIOSH 582E Microscopy

Radiation Safety and Operator Training (X-Ray fluorescence)

Tetra Tech Technical Writers Training Course

Tetra Tech Project Manager Training

Tetra Tech Confined Space Awareness Training

USACE EM 385 1-1 - currentList

ADDITIONAL EXPERIENCE

Windows Office, Adobe Professional

EMPLOYMENT HISTORY

1998 – Present	Environmental Professional, Tetra Tech, Sacramento, California
1997-1998	Kelly Services, Sacramento, California
1997	Newbold Cleaners, Sacramento, California
1990 – 1997	Chicago West Nightclub, Carmichael, California



Jodi Gunning, Background Soil Analysis Team Lead

EXPERIENCE SUMMARY

Ms. Gunning is an Environmental Scientist with nearly two years of experience in wildfire ecology surveys and three years in fire remediation work. Ms. Gunning provides troubleshooting/problem resolution for field soil samplers and sample coordination. Ms. Gunning trains field and data team members to ensure the highest quality of production and efficiency is achieved while keeping safety a priority. Ms. Gunning conducts hazard site assessments, asbestos surveys, soil sampling, air monitoring, and data management for debris removal operations.

RELEVANT EXPERIENCE

Fire Remediation

Environmental Crew Lead, Dixie Fire, CalRecycle – October 2020-Current. Ms. Gunning is managing the soil sampling field quality control team. She is training and managing staff to perform quality control measures on sampling forms coming in from field teams. She performs document review, auditing and editing. She is also a back-up soils field supervisor. She uses problem solving skills to support field staff and QC staff.

Environmental Crew Lead, North Branch Fire, CalRecycle – December 2020- September 2021. Ms. Gunning is managing the soils field QC team. She is performing quality control measures on sampling forms coming in from field teams. She is doing field document review and editing. She is also a back-up soils field supervisor. She is an active member on the soils daily reporting crew and helps process data from the lab.

Environmental Unit Lead, Camp Fire, CalRecycle - January 2019-July 2020. During Individual Property Report (IPR) production Ms. Gunning managed quality control for 16,000 soil maps for 12,000 sites. She supported 100+ staff members in preparing 12,000 summary reports. Ms. Gunning performed document production and quality control of IPRs. Ms. Gunning performed quality control analysis of soil data results from labs. She supported field teams by providing quality control review of field documents. Ms. Gunning performed hazard site assessments surveys in which she assessed the area for hazards, photographed the site and drew a map of debris for removal. She assisted in conducting asbestos assessments and collecting asbestos samples. She returned to sites after debris removal to collect soil samples where debris had been removed during the wildfire recovery efforts from the

Environmental Unit Lead, Carr Fire, CalRecycle - January 2019-August 2019. Ms. Gunning performed document production and quality control of IPRs during the wildfire recovery efforts from the Carr Fire Incident; over 1,200 program-registered residential properties were affected in an area (Redding, Shasta, French Gulch) of Shasta County, CA. Ms. Gunning completed data summary reporting and IPR compilation and review.

Environmental Unit Lead, Mendocino Fire, CalRecycle - January 2019-October 2020. Ms. Gunning performed hazard site assessments surveys in which she assessed the area for hazards, photographed the site and drew a map of debris for removal. She assisted in conducting asbestos assessments and collecting asbestos samples. She returned to sites after debris removal to collect soil samples where debris had been removed during the wildfire recovery efforts from the Mendocino Complex Fire Incident; over 170 program-registered residential properties were affected in an area (Lakeport, Upper Lake, Lucerne, Nice, Lake Pillsbury) of Lake, Mendocino, Colusa, and Glenn Counties, CA

EDUCATION

B.A., Environmental Science,
University of California Santa
Cruz, 2017

Graduate Certificate, Fish and
Wildlife Management, Oregon
State University, 2022

AREA OF EXPERTISE

Quality Control,
Data Management
Data Analytics/Validations
Troubleshooting
Report Writing
Ecology Surveys
Endangered Species Surveys
Environmental Risk
Assessments

KEY TRAINING/ CERTIFICATIONS

40 Hour HAZWOPER 2019
8 Hour Confined Space 2020
8 Hour HAZWOPER 2021
8 Hour HAZWOPER 2022

OFFICE

Oakland, CA

YEARS OF EXPERIENCE

4

CONTACT

510-302-6271

Jodi.Gunning@tetratech.com

Risk Assessment

United States Environmental Protection Agency - Region 9, Response, Assessment, and Evaluation Services (RAES) - October 2019-Current. Ms. Gunning has written several ecological risk assessments for the RAES project. She pulls data from field documents and other resources to evaluate ecological risk for each site. She makes a removal action recommendation based on the data she analyzed.

Phase 1 Site Assessment

National Aeronautics and Space Administration (NASA) - November 2019-January 2020. Ms. Gunning assisted with a phase 1 site assessment at NASA AMES looking into Per- and polyfluoroalkyl substances (PFAS) contamination. She analyzed historical documents and conducted interviews with people on site to identify sources and potential sinks of PFAs contamination. She is planning to lead the PFAs field sampling efforts in spring 2020.

Environmental Sampling

Prometheus Real Estate Group - February 2020-Current. Ms. Gunning was the lead for a construction site for Prometheus at 1710 Villa. Where she conducted routine air monitoring for dust pollution. She also conducted periodic air sampling for contaminants at different stages of the project.

UC Berkeley - March 2019, October 2019. On several occasions Ms. Gunning participated in well monitoring at Richmond Field Station. She worked with a team to locate and measure depth to water in wells. She collected samples for the ongoing study to analyze water quality on site.

Port of Redwood City - April 2019. Ms. Gunning conducted a quarterly review of at Port of Redwood City. She collected storm water from the outlets releasing water from site into the bay. She took photos and took details notes regarding the condition of storm drainages to be used in a report to client on how to better manage storm drains.

OTHER EXPERIENCE

Natural Resources Intern, Redwood City, CA, San Mateo County Parks, 2018. While working for the San Mateo County Park department Ms. Gunning monitored San Bruno Mountain County Park's endangered species including Mission Blue, San Bruno Elf, and Callippe Silverspot butterflies. She supervised contractors assisting with monitoring. She identified and mapped butterfly host plants, nectar plants and invasive plants of San Bruno Mountain on GIS. Collected and analyzed data for annual Habitat Conservation report. She assisted leading the annual Habitat Conservation Plan hike with state and local government agencies and neighbors of San Bruno Mountain. She led volunteers in restoration planting and invasive species removal at multiple county parks.

Park Ranger, Redwood City, CA, San Mateo County Parks, 2017-2018. Ms. Gunning supervised and trained seasonal park staff. She provided customer service and educated guests about parks services and ecology of the park. She organized and lead Bike Sunday, Dia de Los Muertos, Wunderlich Christmas and other special events for the community. Planned and lead guided educational hikes for the public and Peninsula Open Space Trust. She performed year around trail maintenance to ensure accessibility for park patrons. She operated small motor equipment including leaf blower, pole saw, weed eater, and hedger. She performed and supervised weekly parks upkeep of facilities.

California Ecology, University of California Santa Cruz, 2017. Traveled around California to executed field ecology work in a variety of weather conditions in rugged accommodations. Learned and practiced identifying wildlife and plants. Designed research to study caterpillar substrate preference, plant distribution in correlation to Creosote bush composition of burned and unburned plants serpentine soil. Designed, conducted a research study and collaborated to write a formal scientific paper analyzing Coast mule deer foraging patterns across temporal scales to understand and analyze preferences. Presented analysis in scientific paper as well as formal presentation.

Fish Hatchery Intern, Davenport, CA, University of California Santa Cruz, 2016. Ms. Gunning performed spawning procedure on Coho Salmon with a group of professional biologists at the fish hatchery located in Davenport, CA. Studied and cared for fingerling Coho Salmon to ensure they had not contracted an airborne fungus that was prevalent that year. Daily tasks included feeding and general site maintenance. Weekly tasks involved measuring fish growth rates, water flow and tank cleaning.



Doug Kokesh

Lead Arborist

25+ YEARS OF
EXPERIENCE

Education

Chapman University System, Master of Business Administration (MBA) with concentration in Human Resources Management

Chapman University System, Master of Public Administration (MPA) with concentration in Executive Public and Non-Profit Leadership

Chapman University System, Master of Arts in Organizational Leadership (MAOL)

Northern Arizona University, Bachelor of Science Degree in Forestry / Multi-Resource Management (1992)

Fullerton College, Associates Degree in Pre-Forestry (1990)

EXPERIENCE SUMMARY

Mr. Kokesh's dedication, conscientiousness and focused approach, including a collaborative management style blends well with his 25+ years' experience in state, municipal, institutional, consulting and private work environments. Coupled with graduate degrees in business/public administration and organizational leadership, an undergraduate science degree in forestry/multi-resource management, and credentialing and/or experience in line clearance/vegetation management, municipal & institutional arboriculture and urban forestry, pest control/plant growth regulation, landscape design, irrigation auditing, recycled water site management, erosion & storm water protection, and playground safety; Mr. Kokesh is primed to provide excellent operational leadership at an executive level in which he can actively and enthusiastically engage in the achievement of private, institutional or local government-related agencies' mission statement goals and objectives. His wealth of knowledge, experience and skills can be used to add credibility and expertise to most any agency or firm looking for ethical leadership, sound decision-making capabilities, and a positive approach to building and sustaining morale.

RELEVANT EXPERIENCE

Registered Professional Forester Designee / Senior Lead Arborist / Project Manager (July 2020 – Present)

Tetra Tech, Inc. | Maitland, FL

Essential worker providing wildfire disaster response to Butte County and Town of Paradise (Northern California Branch). Facilitated 1000's of on-site tree assessment property surveys to determine imminent threat and short and medium-term viability (1-5 years) of trees moderately-severely impacted by wildfire. Clearly marked confirmed hazard trees, recorded pertinent information and catalogued tree(s) in an electronic database. Determined whether tree(s) met the eligibility criteria outlined by FEMA. Depending on project phase and/or reporting entity, tree risk assessments were performed to identify hazardous trees with the potential for posing a threat to the safety of incident hazmat/structural debris removal crews, public and utility rights-of-way, and other improved public and private property or infrastructure. Trained arborist team members using outlined rating criteria and reporting expectations provided by client(s). Additional training provided in the use of forestry-specific and general use measurement tools (i.e., laser rangefinder/hypsometer, clinometer, Trimble/Garmin/Magellan geospatial handheld & backpack unit data collectors, comprehensive 2-D interactive parcel data mobile apps, pertinent government supported GIS land/parcel survey lookups & infrastructure overlays). Provided a high-level of oversight, advisement and affirmation in the development and mentoring of team members using a task repetition approach aimed toward fostering confidence and competence. Geared arborists' mindsets toward understanding the importance of work product consistency amongst all members of the team, especially accuracy and eliminating as much subjectivity as possible when applying provided rating criteria. Acted as cross-over crew leader (as needed and outside of the scope of solely being used as Tetra Tech's Senior Arborist/Forester) often being heavily relied upon to be the point of contact for government officials, sub-contractors, suppliers, non-profit/advocacy groups, the general public and as media/public relations

spokesperson (as needed and/or called upon). Performed administrative duties, including timesheet verifications, safety and COVID-19 briefings, daily dispatch preparation, expense tracking and reporting, supplies and materials acquisition.

Urban Forestry Consultant / Parks, Landscape & Urban Greenspace Planner (March 1999 – Present)
Owner/Self-Employed | Orange, CA

Over 4,000 hours of documented and billed time for work performed in conjunction with the development and/or implementation of approximately 350 arborist reports, urban forest management plans, master street tree plans, park and tree improvement inventories, tree valuation estimates, standard specifications for tree transplantation and tree protection guidelines (i.e. – for grading contractor operations around historic, landmark, and/or trees of significance), contracted by municipalities to perform independent inspection/auditing of line clearance companies retained by Pacific Gas & Electric and Southern California Edison, miscellaneous technical correspondences, expert witness testimony, landscape/greenbelt designs, comprehensive park assessments & recommendations, playground safety inspections, species palette recommendations, grant package preparations, Tree City/Campus USA & Growth Award applications, tree risk assessments, civic and professional speaking engagements & workshops, and municipal and non-profit project management associated with bond monies earmarked for landscape, park, turf/irrigation water-wise renovations/retrofits and urban forestry-related initiatives.

Tree Care Division & Regional Accounts Interim Manager / Senior Arborist (September 2015 – July 2017)
Bemus Landscape, Inc. & Harvest Landscape Enterprises, Inc. – San Clemente & Orange, CA

For both companies, responsible for the management of all aspects of tree service jobs through the efficient use of labor and materials. Provided staff supervision that produced desired profit margins and achieved optimal customer satisfaction. Responsible for solely creating up to \$7.6M in proposals and generating \$2.6M in revenue annually. Inspected trees for a diverse assortment of insect, injury and disease. Reviewed all customer requests for pruning and removals. Oversaw the performance of specialized pruning and takedowns, including the installation of cabling and bracing. Recommended solutions regarding species selections and site locations. Produced tree pruning schedules, proposals and inventories. Addressed organic and environmental hazards associated with tree pruning (i.e., utility lines, space requirements, work that necessitated the use of a crane/aerial lift, etc.) while ensuring that all mandated safety compliances were being adhered to, including the training, site monitoring and verification that individuals were certified (if required), properly equipped and competent to perform high risk tree care activities.

Tracked project statuses and closed projects appropriately through the completion of necessary paperwork, invoicing, timecard verifications and safety documentation sign-offs. Secured all local safety permits and right-of-way considerations inclusive of the preparation of traffic control plans as needed. Trained, coached, and disciplined all tree division staff while role modeling all administrative policies and procedures. Certified Tree Care Safety Professional (CTSP) credential holder.

Maintenance Superintendent, Parks & Urban Forestry / City Arborist (June 2014 – May 2015)
City of Costa Mesa, CA – Department of Public Services – Maintenance Division

Responsible for the creation and oversight of annual budget of \$5.5M consisting of three (3) of the Maintenance Division's programs. Prepared annual budget recommendations, proposals and forms for Division Manager and Department Director for Landscape, Urban Forestry and Graffiti Programs, including requested budget increases, capital improvement projects (with priority rankings), labor forecasts and staffing increase justifications, professional development funding considerations, bilingual pay, and asset replacement (high dollar equipment/fleet purchases). Responsible for the skilled supervisory and administrative work in the planning, design/development, and coordination of activities associated with the following: landscaping and irrigation of citywide medians, parks & parkways; urban forestry programs & management; outdoor recreation, sports complexes, bathroom and picnicking facilities/structures; pest, & apian control; janitorial & graffiti services. Directly oversaw and monitored all in-house and contracted work for the Parks & Urban Forestry Section, including tree maintenance, landscape maintenance, park & athletic facilities maintenance and repair (e.g., bathrooms, playground equipment, picnic shelters, designated historical landmarks, snack bars & gift shops and informational kiosks), herbicide and pesticide application, program-specific contractual janitorial services, graffiti crew and lake maintenance contracts. Administered the execution of various CIPs from inception/planning phase to completion. Directed staff of 19 employees and 2 supervisors on day-to-day operations, special event needs and emergency service dispatch. Provided plan checks and reviews, conditions of approval and contractual/price agreement "sign-offs". Additional provisions provided to Engineering Division in the form of proposed project assessments, recommendations and tracking that involved landscaping and irrigation improvements citywide. Created and maintained cyclic

Attachment: User Agreement -- Mariposa County Compiled for TT_compressed (TT Signed) (RES-2022-500 : Oak Fire Recovery Master

schedules for subordinates to follow and submit (i.e. - budget proposals, end-of-year spending, employee evaluations, etc.). Inspected locations related to tree issues requiring certified arborist input and final decision-making.

Acted as City Arborist in dual capacity while also acting as Maintenance Superintendent performing the duties as described above. Coordinated Park maintenance activities with outside departments and agencies to insure that no conflicts occurred in terms of scheduling or agendas associated with specific resources (e.g., fields, group picnic areas). Coordinated \$100K tree planting program in first year of employment as a City Council funded special project in addition to regular duties. Worked directly with Southern California Edison line clearance inspectors and their contractor to carefully develop and implement grid trimming operations and removals. Daily inspection and consultations with contracted crews during the periods of the year in which City right-of-way trees were being maintained for line clearance. Developed and presented reports and presentation materials for/to City Council and the Parks and Recreation Commission pertaining to public requests and Division accomplishments. Researched and prepared informational packages and synopses for the City Attorney regarding received Claims for Damages. Represented City in court proceedings associated with Claims for Damages. Participated in design review process as Maintenance Services Division committee member and City Arborist. Active involvement with Costa Mesa Water District regarding new drought restrictions & in developing expanded recycled water use plan for the City to better conform to State water usage mandates.

Manager, Grounds & Landscape Services, Roadway and Parking Lot Maintenance - Admin II (August 2006 – June 2014)

Humboldt State University – Facilities Management / Plant Operations | Arcata, CA

Provided professional, technical and managerial leadership for the University's 145-acre campus, while responsible for the daily operation and maintenance of all campus outdoor facilities and resources. Advised on the future development of the campus landscape including responsibility for the design, stewardship and preservation of the campus's heritage and reputation for aesthetic beauty. Implementation of IIPP, hazardous materials handling and Cal OSHA required programs. Principal duties and responsibilities:

- Provided daily leadership, work instruction, training and performance evaluations to full-time permanent, seasonal temporary/intermittent-hourly and student assistant staff of 8-22 employees from two different CSU Bargaining Units (staffing fluctuations due to needs based on time of the year, project loads & available departmental funding)
- Development and oversight of maintenance unit budgets that ranged between \$1.1M – \$1.4M annually
- Prepared and/or updated numerous job classifications/position descriptions and recommended career path development training curricula for future advancement among classifications
- Responsible for upkeep of unit's asset inventory maintenance, inclusive of repair coordination and in making researched recommendations for future vehicle and equipment replacement with plant operations fleet services
- Developed Unit's annual goals and objectives in alignment with University's mission and values statement and current strategic plan
- Read, interpreted and provided "take offs" from blueprints and plans; prepared landscape, conceptual, site improvement and presentation drawings, plans and specifications for University Vice Presidents and Directors
- Responsible for the efficient operation and maintenance of the campus centrally controlled irrigation system, including the design and construction oversight of new and replacement systems (i.e., RainMaster Evolution DXII Pro-Max UA Series cross-compatibility with newly installed WeatherTrak ET Pro Irrigation Management System)
- Biannual implementation and execution of a campuswide tree maintenance program, including tree risk assessments of particularly Coast Redwoods and including line clearance operations monitoring and coordination in an advisement role with Pacific Gas & Electric consultants and contractors (e.g., Davey Tree Expert, Mowbray) to insure mitigation of tree hazard/structural integrity issues related to concerns associated with the safety of campus community members & property and wildlife habitat protection at the campus/wildland interface
- Maintenance of control implements (e.g., wattles, silt fence, gravel bags, drain intake filter socks), adherence to BMPs, and oversight pertaining to new construction sites and existing pathways associated with storm water run-off campuswide, inclusive of suspended sediment movement and observed contaminants potentially in violation of NPDES or other storm water related regulations. Performed required on and off-site pre-storm event, concurrent and post-storm event turbidity inspections/tests to monitor for compliance; initiated regulatory agency notification and clean-up efforts per either

contractor developed SWPPP or by recommending solutions/mitigation measures as Certified Erosion, Sediment and Stormwater Inspector (CESSWI) and Qualified SWPPP Practitioner (QSP).

- Participated in cooperative and shared resource allocation with City of Arcata and the California Conservation Corps (CCC) in managing and maintaining 790-acre Arcata Community Forest, a developed trail system connected to and abutting the northern and eastern boundaries of the Humboldt State University campus. This unique trail system is a multi-use woodland recreation area with an 18-hole disc golf course, trails for hiking, mountain biking and horseback riding, and with several split log “natural” bridges and stairways crossing steep ravines and redwood-forested hillsides. The Forest Guild, a national organization of professional foresters, declared The Arcata Community Forest as one of only 20 “Model Forests” in the United States (the guild’s top designation for excellent forestry in practice in the United States).
- Specified, spotted and oversaw installation of perennial/woody plant material campuswide, inclusive of designing new bio-swales and riparian corridors throughout the campus
- Maintenance, operation and cyclic renovations (i.e., seeding/overseeding, core or deep tine aeration, dethatching, sodding, etc.) of multiple NCAA Division II sports fields, including synthetic turf fields (football and soccer), turfgrass fields (softball, lacrosse, & rugby) and urethane track and field sport surfaces
- Regular inspection and monitoring of the health of campus flora, incorporation of fertilization program adjustments (as needed) and control of weed and vertebrate/invertebrate pests using highly scrutinized IPM practices. Safe and effective use of pesticides as part of IPM approach relied heavily on poison-free applications (specifically chemicals not containing 2,4-D) and alternative “green” methods to achieve eradication.

Urban Forestry Specialist I & II (Consultant) & Project Manager (September 1994 – January 1997 & March 2006 – August 2006)

Integrated Urban Forestry, Inc. / Dudek & Associates, Inc. - Laguna Hills & Irvine, CA

- Applied for and awarded California Department of Forestry Technical Assistance Contract on behalf of The Nature Conservancy, land proprietor for The Irvine Company. Developed and site evaluated Oak Woodland Restoration and Habitat Enhancement Stewardship Plan for Limestone Canyon. Attended public hearings; documented public comments for Plan inclusion. Performed habitat mitigation to preserve Oak Woodlands in the Plan through the use of field data, a global positioning system, aerial photos, archeological reports, wildlife and biological surveys, riparian protection statutes and documentation of any endangered or threatened species siting(s). Worked with Nature Conservancy staff developing an Oak Woodland Regeneration Program. Generated support of local schools and student participation in acorn gathering and oak seedling planting events.
- Coordinated one-day tree planting event of 350, 15-gallon size trees for the City of South Gate, California. Recruited and trained over 200 volunteers. Developed elementary school tree appreciation program, an event theme, flyer and banner. Solicited corporate sponsorships. Surveyed and marked locations for tree placement in parks, city parkways and medians. Advised and acted as “contract” project manager for City regarding the selection of tree species, suitable planting sites and sub-contracting of nursery suppliers, tree installation & stewardship maintenance services, and concrete cutting and paver installation services. Inspected and signed off on work of all sub-contractors for compliance to contract specifications.
- Prepared and administered contracts for The Irvine Company and the City of Irvine for evaluations and recommendations requested to assist in improving current eucalyptus windrow management practices. Detailed trees that were candidates for removal; Created specifications for the grading contractor as to proper root protection, irrigation installation guidelines and watering schedules, pruning guidelines for the tree maintenance contractor and considerations to be taken when managing the trees (i.e. – control of the eucalyptus long-horned beetle).
- Prepared Wingate Park Management Plan and Cursory Review and Assessment for the City of Covina, California. The Plan assessed each park tree as a candidate for integration into proposed redesign plans based on current health, structure, value, regional rarity, and wildlife benefits.
- Developed Iguala Landfill Site soil maps and pH overlays from blueprints for the Environmental Protection Agency and the City of Montebello, California. Gathered field samples at random landfill perimeter locations to test for soil pH fluctuations. Compiled and plotted data on a GIS overlay formatted site map that cross-referenced areas of varying pH levels with recommended soil amendments necessary to sustain planned vegetative cover.
- Developed and administered pilot shade tree energy conservation program for the San Diego Gas and Electric Company. Trained staff; served as liaison and advisor. Prepared monthly reports to SDG&E detailing the program’s progress, identifying

problem areas and presenting solutions to staffing inadequacies, lack of customer exposure, qualification stringency, inadequate product and service presentation, etc.

- Performed research associated with and assisted in the development and authoring of A Carbon Dioxide Mitigation Plan Using Urban Trees for Southern California Edison (SCE); explored concept with researchers from around the country and created a hypothetical measurement tool for quantifying carbon dioxide sequestration in urban trees. The Plan supports, when employed on the largest of scales, the planting and use of trees as a viable and cost-effective solution to mitigating sustained quantities of carbon dioxide over an extended period.

Regional Operations Supervisor & Consulting Arborist (October 2005 to March 2006)

West Coast Arborists, Inc. – Pleasanton/Stockton, CA

Ensured and oversaw crew and job safety management principles by performing weekly crew evaluations, monthly foreman's meetings and quarterly safety meetings. Followed a workload regiment to properly address the needs of excellent customer relations, while meeting production and profit goals and supporting the various needs of field crews and internal administrative demands. Serviced and acted as "bridge supervisor" in the early stages of company's expansion into 30 cities in Northern California (Monterey to Sacramento), establishing and coordinating the tree trimming, line clearance, removal, stump grinding, tree planting, cabling and bracing and field arborist report writing needs of each municipal client as called upon. Maintained weekly schedules and contract balance sheets, monitored all projects for completion, work quality and proper billing. Estimated and prepared various types of formal and informal bid packages, proposals and proformas. Attended pre-bid and pre-construction meetings and bid openings. Developed critical network of outside suppliers of products and services in a new market area while establishing close relations with clientele base.

Right-of-Way Landscape & Tree Services Coordinator - City Arborist (April 1998 to October 2005)

City of Orange, CA – Public Works Department – Street Maintenance Division

Administered and planned annual operating budget with complete oversight of City contracted tree and landscape services. Prepared bid specifications and contractual stipulations; inspected projects to ensure adherence to established work quality, quantity and best management practice standards. Supervised and coordinated work schedules of maintenance employees responsible for herbicide and pesticide spraying, manual weed abatement activities and small tree and tree well maintenance and watering of all City Street trees and landscaped rights-of-way. Prepared and/or maintained performance evaluations, employee development training plans, material requisitions, green waste tonnage reports and a variety of records, correspondence and reports pertaining to City maintenance programs and policies.

Developed and implemented the City's first Comprehensive Inventory and Master Plan of Street Trees and Integrated Pest Management Plan. Provided technical advice and training related to tree care, preservation and stewardship, disease, pest identification and control and landscape maintenance. Represented and acted as liaison between City staff, council, community members, and public interest/non-profit groups while attending, participating in, speaking at and/or conducting various presentations, workshops, conferences, design review boards, planning commission and city council meetings, ad hoc committees, etc. Applied for and managed grant monies from State and County initiatives, bonds and matching fund sources. Responded to and inspected City and public requests and inquiries regarding tree location, condition, suspected ailment(s) and/or described hazard or nuisance.

Acted as City's line clearance liaison and mediator between SCE contractors (e.g., Asplundh, Mowbray, Utility) and concerned residents to reach mutually acceptable agreements that adhered to ANSI standards and industry best management practice. Provided daily monitoring of line clearance activities and worked with foremen to establish grid completion patterns, in areas that fell within City rights-of-way, that would minimally impact citywide traffic flows.

Experienced in concrete and asphalt damage and reconstruction options as a result of tree damage. Recommended and developed capital improvement projects. Oversaw erosion control product installations by contractors and city staff to ensure city compliance with stormwater regulations. Redeveloped City Standard Specifications for Street Tree Removal, Planting and Maintenance (Street Tree Ordinance) and Standard Tree Planting Plan Diagram, referenced by all City project blueprints designating the use of street trees. Drafted City Sewer Lateral Replacement Policy relating to parkway trees. Promoted City reforestation efforts through the annual application processes involved with attaining recognition through the National Arbor

Day Foundation's Tree City U.S.A. and Growth Award programs. Represented City at League of California Cities events, Council Meeting, Parks & Recreation and Planning Commission Committee Meetings.

VOCATIONAL CERTIFICATIONS & LICENSES

Certified Arborist #WE-1637AUM with Utility & Municipal Specialist credentials (*est. 1994*) – *International Society of Arboriculture*

Certified Arborist Tree Risk Assessment Qualification (TRAQ) – *International Society of Arboriculture*

Pest Control Adviser (PCA #151216), Qualified Applicator Certificate & License (QAC #95102) / (QAL #151536) (*est. 1994*) – *California Department of Pesticide Regulation*

Registered Consulting Arborist Certification Academy Graduate – *American Society of Consulting Arborists*

Urban / Community Forester Certification Academy Graduate – *CalPoly State University – San Luis Obispo College of Agriculture, Natural Resources Management Department, Urban Forest Ecosystem Institute*

Certified Wildlife Protector #812 – *Wildlife Training Institute*

Certified Playground Safety Inspector (CPSI #40133-1220) – *National Recreation and Park Association*

Certified Landscape Irrigation Auditor, Drip Irrigation Auditor, & Irrigation Technician (CLIA, CLIA-D & CIT #114068) – *Irrigation Association* • **Water Sense Partner** – *Environmental Protection Agency*

Aquatic Facility Operator (AFO #120829) – *National Recreation and Park Association*

Certified Erosion, Sediment and Stormwater Inspector (CESSWI #1658) – *EnviroCert International, Inc.*

Qualified SWPPP Developer & Practitioner (QSD/QSP #20276) – *California Storm Water Quality Association*

Recycled Water Site Supervisor Training Certification #5342 – *Public Utilities Department, San Diego, CA*

PAST & PRESENT MEMBER/BOARD SERVICE

- International Society of Arboriculture (Western and Pacific Northwest Chapters)
- Utility Arborists Association
- Tree Care Industry Association
- Society of Municipal Arborists (and Urban Foresters)
- American Society of Consulting Arborists
- Society of American Foresters
- California Urban Forests Council
- Street Tree Seminar, Inc.
- Irrigation Association
- Professional Grounds Management Society
- Maintenance Superintendents Association (Los Angeles/Orange Area Chapter)
- National Recreation and Park Association
- California Parks and Recreation Society
- California ReLeaf Anaheim Beautiful / Community ReLeaf Anaheim
- Orange for Trees
- National Arbor Day Foundation
- American Forests
- Trout Unlimited
- Nature Conservancy
- Mono Lake Committee

4. Appendix 2: Certifications and Registrations

U.S. ENVIRONMENTAL PROTECTION AGENCY

This certifies that

CHRISTOPHER R. BURNS, Jr.

Has completed the

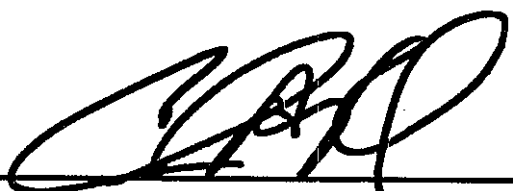
HAZARDOUS MATERIALS INCIDENT RESPONSE OPERATIONS (165.5)
Training Course

*Edison, New Jersey
November 29 – December 3, 2004*

3.8 Continuing Education Units

Presented by the

ENVIRONMENTAL RESPONSE TRAINING PROGRAM


Course Director, Tetra Tech NUS, Inc.


U.S. EPA Project Officer

Certificate of Training

Chris Burns

is hereby awarded this certificate to acknowledge completion of the
8-hour HAZWOPER Supervisor Course

Hazardous Waste Operations and Emergency Response
(HAZWOPER) Refresher Training for Compliance with OSHA
29 CFR 1910.120(e)(8), including supervisor training
in accordance with 1910.120(e)(2) & (e)(4)

prepared and instructed by

Tetra Tech

Date Course Completed: **January 15, 2020**
(expires one year from the date of training)



Chris Draper
Safety Manager

Certificate of Training

Chris Burns

is hereby awarded this certificate to acknowledge completion of the
8-hour HAZWOPER Supervisor Course

Hazardous Waste Operations and Emergency Response
(HAZWOPER) Refresher Training for Compliance with OSHA
29 CFR 1910.120(e)(8), including supervisor training
in accordance with 1910.120(e)(2) & (e)(4)

prepared and instructed by

Tetra Tech

Date Course Completed: **January 12, 2022**
(expires one year from the date of training)



Chris Draper
Safety Manager

CERTIFICATE OF TRAINING

Nichole Pagano

Has completed:

ANA - Hazwoper Refresher - Virtual - Classroom 10/07/2021

In accordance with 29 CFR 1910.120 and 1926.65

on

07-Oct-2021

Instructor Name:

Professional Development Hours: 3.0

Continuing Education Units: 0.3



Julie Santaniello
H&S Manager of Technical Programs



The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

Matthew M. Soltis

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene's (ABIH*) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist* (CIH*)

The aforementioned individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.



Credential Number: 6484 CP

Award Date: July 22, 1994

Expiration Date: December 1, 2025

A handwritten signature in blue ink, reading "Cynthia Hanko", written over a horizontal line.

Cynthia Hanko, CIH
Chair of the Board of Directors

A handwritten signature in blue ink, reading "Ulric K. Chung", written over a horizontal line.

Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

BOARD OF CERTIFIED SAFETY PROFESSIONALS

AFFIRMS THAT

Matthew M. Soltis

HAVING MADE APPLICATION FOR AND GIVEN SATISFACTORY EVIDENCE
OF QUALIFICATION AS REQUIRED IN THE BY-LAWS; IS QUALIFIED TO
RECEIVE AND IS HEREBY AUTHORIZED TO USE THE DESIGNATION

CERTIFIED SAFETY PROFESSIONAL

IN

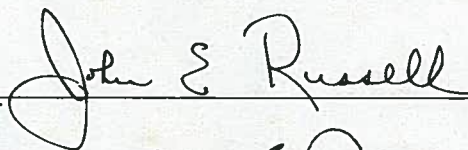
COMPREHENSIVE PRACTICE

SO LONG AS THIS CERTIFICATE OF QUALIFICATION IS RENEWED ANNUALLY AND NOT REVOKED

BOARD OF EXAMINERS IN WITNESS WHEREOF
WE HAVE HEREUNTO SET OUR HANDS AND
AFFIXED THE SEAL OF THE BOARD THIS

1st DAY OF JANUARY, 1999

PRESIDENT



SECRETARY



SERIAL NO. 9206



The BCSP Certification Management System (CMS/My Profile) will be offline as it undergoes scheduled maintenance on September 8 at 6:00 P.M. (ET). We apologize for any inconvenience.



Recertification cycle dates have changed:

Cycle Start Date: **July 1** | Cycle End Date: **June 30** | Worksheet Submission Date: **July 31**

Welcome, Matthew M Sutter
Customer ID: 1001734563

BCSP/US Users

Certification Code	Certification Title	Level	Certification Number	Area of Expertise	Annual Recertification Point Threshold	Next Available Recertification Exam Date	Next Available Recertification Exam Date
CSP	Certified Safety Professional (CSP)	Certified	CSP-2006	12161680	12161681	07/01/2017	06/30/2018
ASP	Advanced Safety Professional (ASP)	Specialty Eligible	ASP-40133	12161684	12161684	10/01/2014	02/28/2016

Expiration of Statuses

Certified (Designation Awarded)	Current active credential
Resignation - Rescinded	Certification/Designation is not valid due to not paying Annual Renewal Fee. Credential can be reinstated prior September 31 by returning to membership and paying the "Certificate Reinstatement Fee" Payment button.
Resignation - Rescinded	Certification is not valid due to not meeting Recertification requirements. Certification can be reinstated until September 31 by returning to membership and paying the "Certificate Reinstatement Fee" Payment button. Once Recertification requirements (e.g., any credit/Annual Renewal Fee) are met, you can pay.
Expired - General Recertification	Certification was invalidated and can no longer be reinstated. Must reapply from non-member status to reapply.
Expired	Certification/Designation was invalidated and can no longer be reinstated. Must reapply and meet all current requirements.



TETRA TECH

CERTIFICATE OF TRAINING

THIS CERTIFIES THAT

Matthew M. Soltis

**has successfully completed a course of instruction
in accordance with**

OSHA 29 CFR 1910.120

**GENERAL SITE WORKER REFRESHER
AND SUPERVISOR REFRESHER TRAINING**

**prepared and instructed by
Tetra Tech, Inc.
Pittsburgh, Pennsylvania**

January 27, 2021

Date of Award

**Matthew M. Soltis, CIH, CSP
Vice President, Health and Safety**

TEXAS ENGINEERING EXTENSION SERVICE

The Texas A&M University System



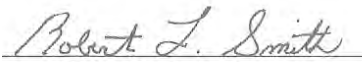
C.2.a

Brian P. Rutherford

has successfully completed

**ICS-300: Intermediate Incident Command System
for Expanding Incidents for Operational First
Responders (H-465)**

April 2 - 3, 2007
16 Hours


Robert L. Smith, Director
Texas Engineering Extension Service


Les Bunte, Division Director
Emergency Services Training Institute

TEXAS ENGINEERING EXTENSION SERVICE

The Texas A&M University System



C.2.a

Brian P. Rutherford

has successfully completed

**ICS-400: Advanced Incident Command System for
Command and General Staff, Complex Incidents
and MACS for Operational First Responders
(H-467)**

April 4 - 5, 2007
16 Hours


Robert L. Smith, Director
Texas Engineering Extension Service


Les Bunte, Division Director
Emergency Services Training Institute

Certificate of Completion

This certifies that

Kim D Bowyer

Has Successfully completed

OSHA 40 Hour HAZWOPER Training

Annual Refresher Training Required

In Accordance With Federal OSHA Regulation 29 CFR 1910.120(e)

This course is approved for 16 Contact Hours (1.6 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) issued by Safety Unlimited, Inc. (Accreditation # 044)

Julius P. Griggs

Julius P. Griggs
Instructor #892

1510291152988

Certificate Number

10/29/2015

Issue Date



UNLIMITED, Inc.

OSHA Compliant Safety Training Since 1993

2139 Tapo St., Suite 228 Simi Valley, CA 93063
888 309-SAFE (7233) or 805 306-8027 866-869-7097 (fax)
www.safetyunlimited.com

And State OSHA/EPA Regulations as well including 29 CFR 1926.65(e)
Want to be sure this certificate is valid? Visit safetyunlimited.com/verification

Certificate of Completion

This certifies that

Kim Bowyer

has successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance w/Federal OSHA Regulation 29 CFR 1910.120(e) & (p)

And all State OSHA/EPA Regulations as well including 29 CFR 1926.65 for Construction.

This course (Version 1) is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) (Accreditation # 044).

Safety Unlimited, Inc., Provider #5660170-2, is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU. As an IACET Accredited Provider, Safety Unlimited, Inc. offers CEUs for its programs that qualify under the ANSI/IACET Standard. Safety Unlimited, Inc. is authorized by IACET to offer 0.8 CEUs for this program.

Julius P. Griggs

Julius P. Griggs
Instructor #892

2111215245631

Certificate Number

11/21/2021

Issue Date



Scan this code or visit [safetyunlimited.com/v](https://www.safetyunlimited.com/v) to verify certificate.

Proof of initial certification and subsequent refresher training is NOT required to take refresher training



UNLIMITED, Inc.
OSHA Compliant Safety Training Since 1993

2139 Tapo St., Suite 228 Simi Valley, CA 93063
(855) 784-2677 or 805 306-8027
<https://www.safetyunlimited.com>



Certificate of Completion

This certifies that

Kim Bowyer

has successfully completed

8 Hour HAZWOPER Supervisor Training

In Accordance With Federal OSHA Regulation 29 CFR 1910.120(e)(4)

Annual Refresher Training NOT Required

Julius Griggs

Outreach Instructor

Rod Zierenberg

Training Director

Julius P. Griggs

Julius P. Griggs

Program Administrator

130110473715

Certificate Number

1/10/2013

Issue Date

ONLINE TRAINING
GTS
SYSTEMS

HazMat Student, LLC

2828 Cochran St. Suite 322 Simi Valley, CA 93065

<http://hazmatstudent.otsystems.net>

This certificate does not in itself indicate initial 24 or 40 Hour HAZWOPER Training

C.2.a

New Jersey State Board of Accountancy

Certifies that

Amy U Fan

having presented due evidence of competency to practice as a Certified Public Accountant and having met the requirements of the New Jersey State Board of Accountancy, is hereby licensed to practice as a

Certified Public Accountant

in the State of New Jersey. Therefore, be it recognized by these present that you are licensed as a Certified Public Accountant for the State of New Jersey, and to have, hold and enjoy said office with all the privileges, rights and emoluments thereof.



Attest

[Signature]

Acting Executive Director

In Testimony Whereof are hereunto affixed the names of the officers of the New Jersey State Board of Accountancy on this 23rd day of April

[Signature]

President

[Signature]

Certificate Number 20CC03841800


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NEW JERSEY DIVISION OF CONSUMER AFFAIRS

Paul R.
Act

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Full Name	License Number	Profession	License Type	License Status	
AMY Y FAN	20CC03841800	Accountancy	Certified Public Accountant	Active	Fa

1

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Be It Known That

Amy Y. Fan

Has successfully met the prescribed requirements
for certification as established by The Institute of Internal Auditors
and is hereby awarded the professional designation of

Certified Internal Auditor

Conferred by the Professional Certification Board and the Board of Directors
of The Institute of Internal Auditors

This month of

December 2015

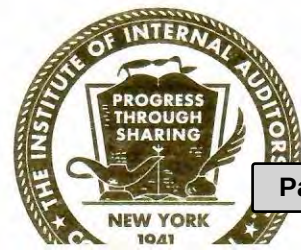
CHAIRMAN OF THE BOARD OF DIRECTORS

CHAIRMAN OF THE PROFESSIONAL
CERTIFICATION BOARD



142266

CERTIFICATE NO.



The Compliance Edge Online Institute
Certificate of Completion

Billy Bol

has met the online course completion requirements for

HAZWOPER 8-Hour Refresher

in accordance with 29 CFR 1910.120 and 1926.65

Certificate ID 1746002-2427
Continuing Education Units 0.8
AdvanceOnline Solutions, Inc. offers
0.8 CEUs for this program.

AdvanceOnline, Inc. is authorized to issue the ICSR CEU.



Date 12/25/2020 10:14:00 AM
Time Online 13:10:23
AdvanceOnline Solutions, Inc.
1811 Bering Drive, Suite 430
Houston, Texas 77057
www.advanceonline.com
(713) 621-1100

AdvanceOnline
S O L U T I O N S

Certificate of Completion

This certifies that

Billy Bol

has successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance w/Federal OSHA Regulation 29 CFR 1910.120(e) & (p)

And all State OSHA/EPA Regulations as well including 29 CFR 1926.65 for Construction.

This course (Version 1) is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) (Accreditation # 044).

Online Training Systems, LLC., Provider #5660170-2, is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU. As an IACET Accredited Provider, Online Training Systems, LLC. offers CEUs for its programs that qualify under the ANSI/IACET Standard. Online Training Systems, LLC. is authorized by IACET to offer 0.8 CEUs for this program.

Jules Griggs

Instructor

Julius P. Griggs

Julius P. Griggs
Program Administrator

2208185435825

Certificate Number



8/18/2022

Issue Date

Dana Burnham

Training Director



AdvanceOnline Solutions, Inc.

1811 Bering Drive, Suite 430 Houston, TX 77057

Scan this code or visit otsystems.net/v to verify certificate.

This course is distributed by AdvanceOnline Solutions, Inc. (<http://www.advanceonline10hour.com>)
Proof of initial certification and subsequent refresher training is NOT required to take refresher training

STATE OF CALIFORNIA
Board of Forestry
and Fire Protection



It is hereby certified that
DUSTIN BROOKS LINDLER
is a duly registered
PROFESSIONAL FORESTER

License No. **2701**

CALIFORNIA STATE BOARD OF FORESTRY AND FIRE PROTECTION

By

Stan Dixon
Chairman

Erin J. Hurd
Executive Officer

This 26th day of January 2001

STATE OF CALIFORNIA

Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health-Asbestos Certification

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> actu@dir.ca.gov

305155051C

375

June 13, 2022

Lona S Pearson
 5534 20th Avenue
 Sacramento CA 95820

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/ mailing information within 15 days of the change.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jeff Ferrell'.

Jeff Ferrell
 Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached



NES

Network Environmental Systems, Inc.®

Certificate of Completion

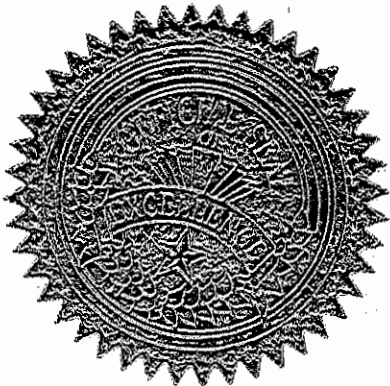
Lona Pearson

has successfully completed

40-Hour Hazardous Waste Operations Training

presented by

Network Environmental Systems

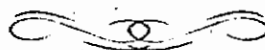


Melvin R. Hempstead

Instructor

5/5/03 - 5/9/03

Date



CERTIFICATE OF TRAINING

PRESENTED TO

Lona Pearson

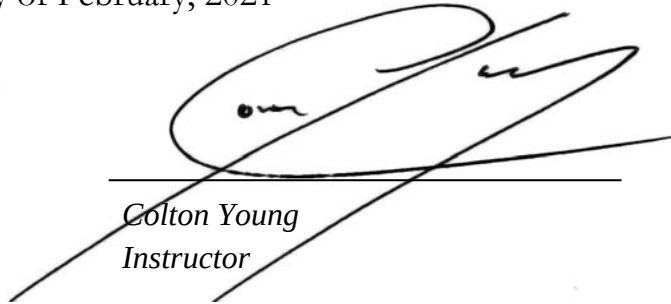
Having successfully completed 8 hours of instruction in OSHA 29 CFR 1910.120
(Hazardous Waste Operations and Emergency Response) as

GENERAL SITE WORKER REFRESHER

Conducted this 15th day of February, 2021



**FIELD ENVIRONMENTAL
INSTRUMENTS, INC.**


Colton Young
Instructor



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<u>First Name</u>	<u>Last Name</u>	<u>City</u>	<u>State \ Province</u>	<u>Country</u>	<u>Credentials</u>
Douglas	Kokes	Anaheim Hills	CA	UNITED STATES	ISA Certified Arborist® ISA Certified Arborist Utility Specialist™ ISA Certified Arborist Municipal Specialist® ISA Tree Risk Assessment Qualification

[Explanation of ISA certification credentials](#)[Explanation of ISA qualifications](#)

International Society of Arboriculture
www.isa-arbor.com • p. +1 678.367.0981 • isa@isa-arbor.com

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Email comments and questions to ISA

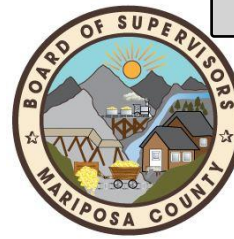
Thursday, August 18, 2022 5:41:45 PM (EST/ISA Headquarters Time)

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MARIPOSA COUNTY

Administration • 966-3222



MEETING: August 30, 2022

TO: The Board of Supervisors

FROM: Dallin Kimble, County Administrative Officer

RE: Closed Session - Librarian Interviews

☐ **CONFERENCE WITH LEGAL COUNSEL:**

☐ **Existing Litigation:**

☐ Disclosure will jeopardize existing settlement negotiations.

☐ **Anticipated Litigation**

☐ Significant exposure to litigation pursuant to subdivision (b) of Government Code section 54956.9.

Number of cases to be discussed:

☐ Initiating of litigation pursuant to subdivision (c) of Government Code section 54956.9.

Number of cases to be discussed: 1

☐ **CONFERENCE WITH COUNTY LABOR NEGOTIATOR**

Name of Employee Organization: _____

Name of County Designated Representative: _____

Title(s) of unrepresented individuals with whom negotiations are being conducted: _____

☒ **PUBLIC EMPLOYEE EMPLOYMENT TITLE OR POSITION TO BE FILLED:**

(Government Code Section 54957 (b) (1))

County Librarian

☐ **PUBLIC EMPLOYEE PERFORMANCE EVALUATION**

Position of employee under review: _____ (Government Code Section 54954.5)

☐ **PUBLIC EMPLOYEE DISCIPLINE/DISMISSAL/RELEASE** (Government Code Section 54954.5)

☐ **CONFERENCE WITH REAL PROPERTY NEGOTIATOR**

Description of real property: _____

Agency negotiator: _____

Closed session will concern: () price; () terms of lease/purchase.

☐ **THREAT TO PUBLIC SERVICE FACILITIES**

Name of law enforcement agency involved: _____

Title of officer of law enforcement agency: _____

☐ **LICENSE/PERMIT DETERMINATION**

License or Permit applied for: _____

Number of license or permit applicants: _____

Name of applicant(s): _____

Agenda Item - No Resolution Requested

RESULT: CLOSED SESSION HELD