

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RISK MANAGEMENT WORKSHEET**

1. Organization and Location: CA-CND, Mother Lode Field Office, Cosumnes River Preserve 2. Page 1 of 8

3. Operation / Task: Field Work – All CRP Staff, Interns, Volunteers, et al. 4. Beginning Date: 05/01/2019 5. Ending Date: On-Going 6. Date Prepared: 04/25/2019

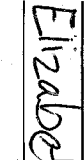
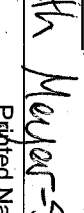
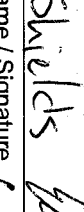


7. Prepared by (Name / Duty Position): Harry L. McQuillen, Manager, Cosumnes River Preserve

8. Identified Hazards	9. Assess the Hazards: Initial Risk				10. Control Measures Developed for Identified Hazards: (Specific measures taken to reduce the probability of a hazard) Include all PPE	11. Assess the Hazards: Residual Risk				12. How to Implement the Controls: (May Be Filled in By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)	
	N	M	M	S		C	N	M	M			S
<ul style="list-style-type: none"> Operating an unfamiliar vehicle, especially if not properly trained to do so and/or without adequate supervision. Driving on dusty, narrow roads and levees in summer, and wet and muddy roads and levees in winter, with the potential for hidden holes, ruts, gullies, trenches, and other hazards. 			X		<ul style="list-style-type: none"> Possess a valid, state-issued driver's license. Complete the mandatory BLM Defensive Driver's Training once every three years (if operating BLM vehicles). Use the vehicle maintenance checklist to inspect each vehicle prior to use. Drive defensively at all times. Stay off of muddy roads and levees for at least 24-72 hours after rainfall. Drive slowly through tall vegetation that blocks the view of potential hazards. Yield the right-of-way to oncoming vehicles or equipment. Use safe pull-overs. Back up and/or turn around slowly, using a spotter when available, if forced to reverse the direction of travel. 				X		<ul style="list-style-type: none"> Staff, interns and volunteers are required to read and sign a copy of this Risk Management Assessment before operating vehicles on Cosumnes River Preserve lands and/or on behalf of the Cosumnes River Preserve partnership. Staff, interns and volunteers are required to receive a familiarization tour of each BLM vehicle prior to operating and maintaining the vehicles. 	<ul style="list-style-type: none"> The Preserve Manager will ensure that staff, interns and volunteers possess a valid, state-issued driver's license. The Preserve Manager will ensure the training and vehicle familiarization tours have been completed. The Preserve Manager will evaluate staff, interns and volunteers to ensure they are proficient in the use of government vehicles prior to use.

14. Remaining Risk Level After Control Measures Are Implemented: **(CIRCLE HIGHEST REMAINING RISK LEVEL)**

NEGLIGIBLE (Supervisor)	MINOR (Associate/Assistant Mgr. / Branch Chief)	MODERATE (Field Manager)	SERIOUS (District Manager)	CRITICAL (State Director/Associate)
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15. RISK DECISION AUTHORITY: (Approval/Authority signature Block) (If Initial Risk Level is CRITICAL, SERIOUS or MODERATE: Brief Risk Decision Authority at that level on Controls and Control Measures used to reduce risks) (Note: if the person preparing the form signs this block, the signature indicates only that the appropriate risk decision authority was notified of the initial risk level, control measures taken and appropriate resources requested; and that the risk was accepted by the decision authority.)

Elizabeth Meyer-Shields

 Elizabeth Meyer-Shields

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Printed Name / Signature

Employee Signature

CONTINUED

8. Identified Hazards	9. Assess the Hazards: Initial Risk					10. Control Measures Developed for Identified Hazards: (Specific measures taken to reduce the probability of a hazard) Include all PPE	11. Assess the Hazards: Residual Risk					12. How to Implement the Controls: (May Be Filled In By Hand)	13. Supervisors and Evaluation by: (Continuous Leader Checks, Buddy System, etc.)
(Be Specific)	N	M	M	S	C	(Be Specific)	N	M	M	S	C	(Be Specific)	(Be Specific)
<ul style="list-style-type: none"> Driving on public roads while conducting wildlife surveys on behalf of the Cosumnes River Preserve. Encountering wildlife on public and Preserve roads and levees. 			X			<ul style="list-style-type: none"> Possess a valid, state-issued driver's license. Complete the mandatory BLM Defensive Driver's Training once every three years (if operating BLM vehicles). Drive the posted speed limit and obey all traffic rules. Vehicle operator must not participate in the surveying activities. If parking along the side of public roads for any reason, move completely off the road or set cones or other warning devices around the vehicle to warn traffic. Do not step from behind or in front of the vehicle into traffic. Safely turn out with as much room as possible. Know what is ahead and behind the vehicle. Use a spotter to back up or turn around, if available. Exercise extreme caution in areas with tall, overgrown vegetation. Look for hidden hazards before proceeding, turning, pulling over or backing up. Drive slowly, especially at night or in low visibility situations or areas (fog). Watch for wildlife on roads, especially during the winter migratory waterfowl season when birds (and predators) use roads and levees more frequently. Stop and allow all wildlife to cross or move off the roads and levees at their own pace. 		X				<ul style="list-style-type: none"> Staff, interns and volunteers are required to read and sign a copy of this Risk Management Assessment before conducting any activity covered in this Risk Management Assessment including, operating vehicles on Cosumnes River Preserve lands and/or on behalf of the Cosumnes River Preserve. BLM staff and/or BLM Volunteer Team Leaders will include a safety briefing and/or safety message as part of the morning brief prior to implementing each wildlife survey. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of the wildlife surveys.

<ul style="list-style-type: none"> Transporting fuel, oil, water, herbicides, or other fluids and lubricants in the back of a vehicle and/or in a trailer that is attached to the vehicle. 	X	<ul style="list-style-type: none"> Transport fuel, oil, water, herbicides, or other fluids or lubricants in approved containers only (e.g., Justrite Safety fuel cans). Only carry enough fuel, oil, water, herbicides, or other fluids or lubricants to a project site to complete the day's work. Ensure that fuel, oil, water, herbicides, or other fluid or lubricant containers are properly secured in vehicles or trailers to prevent spills. Use an approved spill containment system, when and where needed and required by the BLM, manufacturer's label and/or Safety Data Sheet. 	X	<ul style="list-style-type: none"> Staff, interns and volunteers are required to read and sign a copy of this Risk Management Assessment before operating vehicles on Cosumnes River Preserve lands and/or on behalf of the Cosumnes River Preserve. Prior to transporting any fluids or lubricants, conduct a safety briefing using this Risk Management Assessment and any BLM guidance, manufacturer's labels and/or Safety Data Sheets associated with the fluids. 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of work projects that require the transportation of fluids and lubricants.
<ul style="list-style-type: none"> Use of common hand and power tools/equipment including, but not limited to chainsaw, weed eater, hedge trimmer, edger, lawn mower, etc. 	X	<ul style="list-style-type: none"> Transport, store, service and maintain hand and power tools/equipment properly. Keep safety distances between power tools/equipment and users, especially when using items such as chainsaws, weed eaters, etc. Use the proper tools and equipment for the assigned task. Do not use broken or damaged tools or equipment. Flag and/or repair broken tools and equipment immediately. Discard tools and equipment that are beyond repair. Frequently clear work areas of obstructions and debris. 	X	<ul style="list-style-type: none"> Train Preserve staff, interns and volunteers in the proper care, maintenance and use of common hand and power tools. Staff, interns and volunteers must, at a minimum, attend and pass the S-212 Wildland Fire Chainsaw course prior to handling and operating a chainsaw. BLM will provide Personal Protective Equipment including, but not limited to, leather gloves, hard hats, Z87 eye protection, ear protection, chainsaw chaps that extend at least two inches over the tops of the boots, and other protective equipment, as required. 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure: 1) that tools remain in a safe condition through periodic inspection and repair, 2) that tools are not modified or used in a manner that increases the risk of injury, 3) Monitor staff, intern and volunteers to ensure procedures are followed.
<ul style="list-style-type: none"> Operating, fueling, lubricating and maintaining farm and heavy equipment including, but not 	X	<ul style="list-style-type: none"> Never mount, start or operate a piece of farm or heavy equipment for which you have not been 	X	<ul style="list-style-type: none"> Staff, interns and volunteers are required to read and sign a copy 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM

limited to, farm tractors, rotary and flail mowers, disks, scrapers, backhoes, etc.

<ul style="list-style-type: none"> Neck, back, and extremity injuries from lifting 	X							
			<ul style="list-style-type: none"> properly trained and authorized to operate. Allow hot equipment to cool for at least 15 minutes prior to refueling or lubricating. Never attempt to fuel a piece of equipment that is running or is still hot. Use a funnel or flexible hose or spout when pouring fuel into equipment. Refill the fuel on bare ground, or on another non-combustible, grounded surface. Do NOT refuel equipment in the bed, or on the tailgate of a pickup truck, especially trucks with plastic bed liners (Static electric ignited explosion!). Re-fuel equipment at least 20 feet from any open flame or other potential source of ignition. NO SMOKING while fueling or operating fuel-powered equipment. Properly control and abate spills using absorbent materials. Wipe spilled fuel, oil, and other lubricants off of equipment prior to re-starting. Mix fuels and additives in open areas, not in enclosed areas with little to no ventilation. Wear latex or nitrile gloves to prevent skin contamination from fuel, oil and other lubricants. Wash hands with soap and water immediately after handling fuel, oil and other lubricants. 					
<ul style="list-style-type: none"> Use your legs and not your back. Ask for help if the load is too heavy or awkward in 	X							
<ul style="list-style-type: none"> Include a safety briefing and/or safety message about lifting heavy 								<ul style="list-style-type: none"> The Preserve Manager or designated BLM

				<ul style="list-style-type: none"> shape. Do not try to lift or otherwise move materials or objects beyond one's personal abilities. Take breaks from repetitive motions. 					<ul style="list-style-type: none"> objects prior to implementing all work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. 	<ul style="list-style-type: none"> staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of activities involving lifting of objects.
				<ul style="list-style-type: none"> Use extra caution around water control structures, valves, pumps, and other infrastructure in the managed wetland and organic rice units, or other areas of the Preserve. Consider an alternate route if on steeper levee slopes and around water control structures, pumps stands, valves and other infrastructure that are hazardous under wet, slippery conditions. Holes, gullies, ditches, trenches and other hidden hazards in levees and other areas are prevalent and should be flagged, avoided and reported to staff and supervisors so that they can be repaired as soon as possible. Work boots, hiking boots, sturdy shoes, and hip or chest waders are required, as appropriate, for specific work assignments. Make sure boots are tied and hip boots and chest waders are properly secured with straps and buckles at all times. Open toed shoes such as; sandals, tennis shoes, and the like are prohibited while working. 					<ul style="list-style-type: none"> Include a safety briefing and/or safety message prior to implementing all work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. Staff, interns and volunteers must provide and wear proper footwear (e.g., leather boots) prior to engaging in outdoor activities. The BLM does not provide leather boots for field work, but will provide specialty footwear such as hip boots and chest waders. 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of work projects.
				<ul style="list-style-type: none"> Falling, twisted ankles and knees, poor footing 						
				<ul style="list-style-type: none"> Climbing, working on ladders, scaffolding, high-lift apparatus, etc. (e.g., roof repairs) 						<ul style="list-style-type: none"> The Preserve Manager or designated BLM

					<ul style="list-style-type: none"> limited to, OSHA-approved fall restraints systems and other standard safety equipment and procedures when working on elevated platforms, ladders, etc. Terminate all work in situations where individuals feel unsafe or otherwise exposed to unnecessary risk. 					<ul style="list-style-type: none"> work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. 	<ul style="list-style-type: none"> staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of work projects.
		X			<ul style="list-style-type: none"> Wear BLM-provided hardhats and other personal protective equipment, as required, for protection from falling limbs and trees when working in and around wooded areas (e.g., during chainsaw operations to remove invasive trees). Terminate all work in or near forested areas during periods of high winds and storms due to potential snags or falling limbs. 					<ul style="list-style-type: none"> Provide staff, interns, volunteers and others with all required and approved training and Personal Protective Equipment Include a safety briefing and/or safety message prior to implementing all work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of work projects.
		X			<ul style="list-style-type: none"> Wear appropriate BLM-provided eye protection (ANSI Z87 rated) at all times when walking or working with or around trees, brush, fencing or other sharp objects, power equipment, herbicides and other chemicals, fluids or lubricants. Sunglasses are not an appropriate substitute for ANSI Z87 rated safety glasses. 					<ul style="list-style-type: none"> Include a safety briefing and/or safety message prior to implementing all work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the proper training has been completed and that safety briefings are being conducted prior to the start of work projects.
<ul style="list-style-type: none"> Flooding and drowning 		X			<ul style="list-style-type: none"> Use BLM-provided, properly fitted, and properly worn 					<ul style="list-style-type: none"> Include a safety briefing and/or safety message 	<ul style="list-style-type: none"> The Preserve Manager or

		<ul style="list-style-type: none"> personal flotation devices at all times when working or recreating near the Preserve's waterways. Keep safe distances from the water's edge when working in and near waterways (e.g., herbicide treatments adjacent to the waterways). Maintain positive footing and/or handholds when it is necessary to work at the water's edge. Work in teams or with a partner when working near waterways. Stay out of areas of potential flooding during the winter storm season. Do not attempt to cross the Cosumnes River, Mokelumne River or any associated sloughs, channels, ditches, etc. during high-water events. 		<p>prior to implementing all work assignments along waterways. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity.</p>	<p>designated BLM staff will ensure the proper training has been completed in the use of personal flotation devices, canoes, kayaks, motorboats, and other modes of transportation on waterways.</p> <ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure that safety briefings and/or safety messages are being conducted prior to the commencement of work projects along waterways.
<ul style="list-style-type: none"> Bee and wasp stings, ticks, mosquitos, spiders and other biting/stinging insects 	X	<ul style="list-style-type: none"> Notify other Preserve staff, interns, and volunteers know when you see a potential insect hazard (e.g., wasp nests near the public access trails). Flag and avoid working near known insect hazards. Wear long-sleeved shirts, long pants, and gloves when working to help prevent stings and bites. Perform work in bee and wasp-prone areas during the winter season or earlier part of day before they become active. Inspect and watch an area for bee and hornet activity before disturbing the area. Do not work in the area if bees or wasps are present, especially during the heat of the day when they are more active and easily agitated. Do not walk single file through the woods or grassland areas if possible. The 2nd-3rd person usually gets stung the worst. 	X	<ul style="list-style-type: none"> Include a safety briefing and/or safety message prior to implementing all work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. Know who is allergic to insect stings and bites. Watch for respiratory problems or other signs of allergic reaction following stings and bites. Notify Supervisors and Emergency Medical Services (911) and get the injured person to a doctor immediately if 	<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the proper training has been completed and that safety briefings and/or safety messages are being conducted prior to the commencement of work projects.

									<ul style="list-style-type: none"> Drop tools and other equipment or gear and run if bees, wasps or hornets are attacking. 												
									<ul style="list-style-type: none"> Several species of snakes can be found on the Cosumnes River Preserve. Only one is poisonous - rattlesnakes. This species is very uncommon on the Preserve and it occurs primarily in the upper reaches of the Preserve above Highway 99 and Dillard Road. If encountered, avoid contact and move away from the snake. Do not attempt to handle, kill, remove, photograph, or get closer for further inspection or identification. Suspend all activities in the area until the snake leaves on its own. 												
									<ul style="list-style-type: none"> there is trouble breathing. Advise staff, interns and volunteers to carry an Inhaler and Benadryl/ or Epi-pen if they think that they are prone to severe allergic reaction. 												
									<ul style="list-style-type: none"> Include a safety briefing and/or safety message prior to implementing all work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. If bitten, call 911 immediately. Notify the Preserve Manager and/or his designee immediately and get the injured person to a doctor immediately. Watch for signs of troubled breathing, severe allergic reaction, and other serious life-threatening medical emergencies. 												
									<ul style="list-style-type: none"> Heat and cold stress & fatigue 												
									<ul style="list-style-type: none"> Maintain adequate water intake by drinking water periodically in small amounts throughout the day. Start drinking water the 												
									<ul style="list-style-type: none"> Snakes 												
									<ul style="list-style-type: none"> The Preserve Manager or designated BLM staff will ensure the 												

			<ul style="list-style-type: none"> • night before the work day begins. • Tailor the work schedule to fit the climate, the physical condition of employees, and mission requirements. <ul style="list-style-type: none"> a. A reduction of work load markedly decreases total heat stress during hot, dry summer months. b. Lessen work load and/or duration of physical exertion the first days of heat exposure to allow gradual acclimatization. c. Alternate work and rest periods. More severe conditions may require longer rest periods and electrolyte fluid replacement. • Curtail or suspend physical work when conditions are severe. • Cover all exposed skin and be aware of temperatures, especially during the early morning winter hours working around wetland and riparian areas at the Preserve. • Dress in layers with wicking garments (those that carry moisture away from the body) and a weatherproof slicker. • Take layers off as you heat up; put them on as you cool down. • Wear head protection that provides adequate insulation weatherproofing, as needed, during colder temperatures. • Maintain energy levels. Avoid exhaustion and over-exertion which causes sweating, dampens clothing, and accelerates the loss of body heat and increases the risk of hypothermia. 		<ul style="list-style-type: none"> • work assignments. This Risk Management Assessment will be used, and will be available for reference, during every safety briefing to ensure that staff, interns and volunteers fully understand the risks and control measures prior to conducting the activity. • If a heat or cold emergency is suspected, call 911 immediately. Notify the Preserve Manager and/or his designee immediately and get the injured person to a doctor immediately. 	<p>proper training has been completed and that safety briefings and/or safety messages are being conducted prior to the commencement of work projects.</p>
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