

14 Decontamination

Prior to excavation activities, the Contractor and the QEP will designate areas for decontamination activities. The QEP will also evaluate and establish decontamination procedures for personnel, tools, equipment, and vehicles, prior to construction. Decontamination procedures for personnel and BMPs to limit direct exposure to COCs will also be discussed in the Site-Specific HASP.

14.1 Decontamination of Tools and Personnel

Appropriate personal hygiene practices will be adhered to at all times when handling contaminated soil. Washing facilities will be made available on the jobsite to allow workers to wash their hands and avoid cross-contamination before eating, drinking, smoking, and/or heading home for the day.

After contact with the impacted soil, proper decontamination procedures will be conducted including the removal, segregation, and disposal of PPE. Any used PPE will be placed in plastic garbage bags, double-bagged, and deposited in the site dumpster, or a municipal landfill.

Hand-held and manual tools in direct contact with impacted soil will be decontaminated to remove any contaminated soil or water prior to handling unimpacted materials that are assumed to be uncontaminated and before they are removed from the work area. The decontamination of tools will include the following:

- At the excavation location, physically remove soil adhering to the surface of the equipment using appropriate hand tools. Soil removed during this step will be placed back into the impacted area, excavation, or the appropriate stockpile following removal.
- It is possible that dewatering may be needed at the lowest elevation DUs. Rinse off contaminated groundwater at the excavation location, allowing rinse water to drain back into the excavation or be collected in a container for proper disposal.
- While the tools are located at the excavation, water will be used to wash the surfaces of the tools that were exposed to lead-impacted soil. The water used to wash the exposed surfaces will be directed back to the impacted area or excavation and allowed to infiltrate.

During equipment decontamination, proper PPE will be employed to minimize exposure to COCs. Proper PPE will include Modified Level D PPE with nitrile gloves, rubber boots, waterproof Tyvek, and an appropriate face shield to protect against splash back during decontamination. Air monitoring will be conducted to determine if or what type of respirators are needed for site clearing and bridge repair work. See the Contractor Site Specific HASP that will be provided by the selected contractor.

The QEP will designate Decontamination Areas for the donning and doffing of disposable PPE and the cleaning of materials.

14.2 Decontamination of Vehicles and Equipment

Vehicles and heavy equipment cannot access this project site and soil tracking is not anticipated. The cutting, removal and installation tools will be lowered from the bridge using a small crane or winch system to the workers below.

Lead-impacted soil could transfer from the tools or the existing steel members as they are cut and removed. This limits the quantity and volume of potential contamination.

- Steel members will be removed and packed into lined roll-offs for shipping and disposal at Schnitzer Steel on Oahu. No lead paint remediation will take place on the site or in Hawaii County.
- Physically remove soil adhering to the surface of the steel members or equipment prior to leaving the site. Soil removed during this step will be placed back into the impacted area.
- The equipment decontamination procedures are intended to describe methods for reducing and controlling the spread of site COCs to unimpacted materials and to off-site locations.

During equipment decontamination, proper PPE will be employed to minimize exposure to COCs. Proper PPE may include Modified Level D PPE with nitrile gloves, rubber boots, waterproof Tyvek, and trash bags/bins.