

SITE AND SAFETY PLAN

FOR

U.S. ARMY FORT MONMOUTH

DRUM SAMPLING PROJECT

This Health and safety plan has been developed by Best Environmental Systems (BEST) to assist in protecting BEST employees during the unknown drum sampling project at Fort Monmouth. This health and safety plan addresses the hazards which are to be expected to be present during this project. Should unforeseen hazards occur or scope of work changes, this health and safety plan shall be amended to address these changes. The BEST project manager shall be responsible to ensure this health and safety plan is current for the conditions present at the job site.

TRAINING REQUIREMENTS

Best Environmental Systems employees, working on the unknown drum sampling project, have a minimum of 40 hours training and 8 hours annual refresher training, as mandated by the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120.

The on-site BEST supervisor has received the required 8 hour hazardous waste supervisor training. In addition, BEST personnel are monitored annually in BEST's medical surveillance program. All training records and medical surveillance information are on file and may be inspected at the Belford office.

RESPONSIBILITIES OF BEST PERSONNEL

The project manager or his designee will be responsible to ensure that this health and safety plan is strictly followed by all BEST personnel assigned to this project. The project manager will be responsible to ensure that this health and safety plan is appropriate for the project and to ensure a copy of the plan is present at the job site.

PROJECT DESCRIPTION

Using self-contained breathing apparatus and chemical protective clothing, BEST personnel will first visually inspect the drums that are to be sampled for crystallization around the bungs, pressure buildup inside the drum and general drum integrity. When access is deemed safe, the drums will be opened and sampled. In the event of a gaseous discharge, the drum in question will immediately be resealed and further courses of action will be undertaken based upon the type of discharge.

Additional safety equipment and safety protocol shall be utilized during this project should additional hazards occur or the scope of work is altered. The BEST project manager will be responsible to ensure appropriate health and safety requirements are incorporated when necessary during this project.

JOB SITE HAZARDS

Initial inspection of the job site documented the following possible physical and chemical hazards:

Confined space entry

Presence of hazardous waste

HEALTH AND SAFETY CHAIN OF COMMAND

The Project Manager shall be designated as the Health and Safety Officer for this project after evaluation of the site by the Health and Safety Coordinator. The Project Manager is responsible to ensure all health and safety procedures are followed during the duration of this job. In the Project Managers absence, the field supervisor shall assume his responsibilities. On-site job foremen shall be responsible that their personnel conform with standard health and safety procedures.

CONTINGENCY / EMERGENCY PROCEDURES

In case of an unplanned event which can cause a disruption on the job site, i.e. fire, injury, etc., all personnel shall be notified by word of mouth and assemble at the command area. The command area will be designated at the job-site, prior to commencement of work. Supervisors will assure that all personnel have been evacuated to the safe zone.

The evacuation route from the site shall be determined prior to the job start up, with the assistance of US Army personnel and communicated to BEST personnel assigned to this project.

The safe distance and refuge site shall be determined prior to commencement of the project and will be coordinated with US Army personnel and communicated to BEST personnel assigned to this project.

CONTINGENCY/EMERGENCY PROCEDURES

No fire will be controlled on the job site by BEST personnel with portable fire extinguisher, until the fire department is notified and the fire is within the capabilities of available fire extinguisher. The life and safety of personnel in a fire area is the number one priority.

Should an employee become injured, the supervisor shall contact the BEST office to report the injury. The supervisor shall determine if the injured employee should be taken to the nearest hospital / emergency room or if first aid can be administered at the job site. If possible, injured personnel shall be escorted from the job site unless the extent of injuries prohibits movement of injured personnel. Should the extent of injuries require medical transportation, the local first aid / emergency room shall be contacted and on arrival will be informed by the project manager / supervisor concerning the exposure of the injured person to hazardous materials. The first aid / ambulance personnel shall be provided with necessary personal protective equipment to prevent contamination themselves.

Work shall not start up until causes of injury / unplanned event are determined and further instances or occurrences are prevented.

STATION EMERGENCY NUMBERS

532-9911

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BEST's HAZARD COMMUNICATION POLICY

All personnel will be briefed concerning the hazardous materials which may be present in the Work Zone. The hazardous product present is:

"Unknown/Suspected RCRA Hazards"

Material safety data sheets (MSDS) shall be provided for all hazardous materials present on the job site controlled by BEST. BEST's personnel are aware of the basics of the BEST Hazard Communication Policy.

SAFETY EQUIPMENT FOR JOB SITE

The following safety equipment shall be available at the job site to include, but not limited to, the following:

"Appropriate Fire Extinguisher"
"First Aid Kit, Eye Wash"
"Monitoring Equipment"
"GX-82 combination LEL o2"
"Hard hat, Safety glasses, Steel toe shoes"

LEVEL OF PERSONAL PROTECTION

The levels of personal protection for this job site will range from level D to level B. The types of protection are described:

Level D - sturdy work clothes
gloves
hard hat
safety glasses
steel toe shoes

Level C - air purifying
respirator
tyvek suit
rubber gloves
hard hat
steel toe shoes
booties

Level B - air supplied breathing apparatus
(supplied air lines-cascade system)
protective clothing providing the
required permeation resistance (tyvek)
steel toe chemical resistant boots
oil/chemical resistant gloves

In accordance with the unknown drum standard operating procedure, personnel shall be wearing Level B protection when sampling drums. This level of protection has been determined from the following factors: possible presence of toxic fumes in the atmosphere and possible lack of adequate amounts of oxygen

GENERAL JOB SITE SAFETY REQUIREMENTS

Work areas, with hazardous locations, shall be secured from unauthorized personnel by appropriate means.

No eating, drinking or smoking will be allowed in the work area.

In air monitored work areas providing atmospheres with vapor levels above 20% of the LEL, work shall cease and employees leave the area immediately.

Work zones shall be designated to inform personnel of potential contamination and for proper locations of decontamination set-up. These zones shall be designated by appropriate markings.

All spark producing equipment (i.e. generators, etc.) will be located at least 50 ft. up wind of all potential combustible storage areas.

BEST personnel shall be aware of potential heat stress and heat stroke symptoms.

SPECIFIC HAZARD ANALYSIS FOR WORK AREAS

Personnel shall enter the work zone in Level B with SCBA. The cascade system shall be appropriately located to provide the most efficient operation.

The supervisor shall appoint a "safety watch" who will be responsible for the safety of personnel inside the work zone and to ensure that the supplied breathing air is constantly monitored. The safety watch shall not enter the work zone unless another person is /will be designated as the "safety watch". The safety watch will be wearing Level C protection. Should toxic vapor readings stay below 5 ppm, Level D protection shall be worn.

SPILL CONTINGENCY

Sorbent materials will be readily available and will include, sorbent pads, sorbent booms and speedy dry. All personnel working to clean up any spill shall wear, as a minimum, Level B protection.

DECONTAMINATION PROCEDURES

A decontamination area shall be designated at the job-site and will consist of a staging area constructed of plastic with sorbent pads and appropriate washing materials readily available.

Personnel shall step onto the plastic and use sorbent pads to remove any excess/residual oils from themselves.

Personnel shall remove all contaminated clothing and the clothing will be placed in sturdy plastic bags.

Respirator equipment shall be adequately decontaminated and properly stored. All equipment leaving the site shall be decontaminated to remove contaminated materials prior to leaving the site. The project manager will be responsible to ensure that all personnel and equipment are adequately decontaminated.