

Environmental Management Procedure (EMP) 4.4.6.8 Tab 3

Subject: Installation Clean Soil Program (CSP)

1. Purpose: This EMP establishes procedures for managing soil associated with JBLE-E Activities to prevent inadvertent movement of contamination either on, off, or to new areas of the installation.
2. Document Control: This is a controlled document. Controlled documents are updated as required, reviewed at least annually, and re-dated if changed. Any documents to include blank forms appearing in paper form are not controlled and should be checked against the file version prior to use on the:

JBLE – Eustis Environmental website: <http://www.jble.af.mil/Units/Army/Eustis-Enviromental/>

3. References:
 - A. JBLE-I 32-101, Environmental Management
 - B. EMP 4.4.6.8 Hazardous Waste Management (HWM)
 - C. EMP 4.4.6.16 Tab 1 JBLE-Eustis Assessment Management Special Conditions and Affirmative Procurement
 - D. EMP Dictionary
4. Scope: This EMP applies to all Activities and personnel, including military, civilians, vendors, suppliers, and contractor personnel who enter JBLE-Eustis. The definition of an Activity can be found in JBLE I 32-101.
5. Roles and Responsibilities:
 - A. Civil Engineer Directorate (CED); Environmental (CEIE) will:
 - (1). Manage the Installation's HWM program.
 - (2). Establish procedures for managing soil associated with JBLE-E Activities to prevent inadvertent movement of contamination either on, off, or to new areas of the installation.
 - B. Activities will:
 - (1). Comply procedures for managing soil associated with JBLE-E Activities to prevent inadvertent movement of contamination either on, off, or to new areas of the installation..
 - (2). Comply with all HWM procedures in EMP 4.4.6.8 and its related EMPs, unless otherwise modified in paragraph 6 below.
6. Procedures: The Clean Soil Program (CSP):
 - A. The soils associated with JBLE-E Activities must be controlled to prevent inadvertent movement of contamination either on, off, or to new areas of the installation. Any projects on JBLE-E, which involves any of the foregoing action categories listed below, must be coordinated and approved by the CE PM and the CEIE. The contractor will prepare a Soil Management Plan (SMP) for this process. The contractor is responsible for all associated costs. These categories include, but are not limited to:
 - (1). Soil removed from a project site and taken off the installation
 - (2). Soil moved to the project site from off the installation

- (3). Soil removed from a project site and moved to a new installation location
- (4). Soil moved to the project site from another installation location
- (5). Soil disturbed on site as part of a project and remains on the project site
- (6). NOTE: UNDER NO CIRCUMSTANCES will soil be brought onto the Installation, removed from the Installation, or relocated on the Installation without prior written approval by the CEIE.

B. Definitions:

- (1). Soil: Soil is generally defined as earthen materials, a mixture of inorganic materials from the weathering of rocks and minerals and the decay of vegetation. Soils include, but not limited to the following, top soil, fill, back fill, barrow sourced materials, etc. Undisturbed pristine soils are not inherently contaminated and substances contained in the soil are considered to be at normal background levels for the surrounding area. These background level substances may not be suitable for use in other areas.
- (2). Clean Soil: Clean soil is defined as being free of chemical and biological contaminants. These contaminants include, but are not limited to:
 - (a). U.S. Environmental Protection Agency (EPA) RCRA and any State hazardous waste characteristics (i.e., corrosivity, ignitability, reactivity, and toxicity) and listed wastes (waste codes P,U, F, K); total metals; volatile organic compounds; semi-volatile compounds; total petroleum hydrocarbons (TPH), pesticides/herbicides; polychlorinated bi-phenyls (PCBs); and total organic halides (TOX).
 - (b). Specific contaminate levels will be the smaller value of the EPA/VDEQ characteristic Hazardous Waste IAW 40 CFR 261.24 or VDEQ's Memo No. LPR-SW-04-2012 (Sensitive Environments table 1)
(<http://www.deq.virginia.gov/Portals/0/DEQ/Land/Guidance/managementandreuseofcontaminatedmedia.pdf>). Coordinate with the CE PM and the CEIE to make a case-by-case determination where levels are not specified.
 - (c). Red Imported Fire Ants (*Solenopsis invicta*)

C. Soil Requirements:

- (1). All soils must meet the Clean Soil provisions in paragraph 20.1.1.2 above.
- (2). Physical (Geo Technical): All soils will meet geotechnical specifications appropriate for the type of project being accomplished and typically identified elsewhere in the project specifications. Topsoil may require additional testing for gradation, organic matter, potential of Hydrogen (pH), soluble salts, and various chemical constituents.
- (3). Red Imported Fire Ants (*Solenopsis invicta*): Contractor will comply with the provisions of the Federal Imported Fire Ant Quarantine. JBLE-Eustis exist within the quarantine area. All soils and regulated articles (listed below) removed from the installations requires the contractor to provide a written notice as to the recipient and location destination (name, address and phone number) of such articles to the Government project manager. Movement from the installations to a non-quarantine area shall be accomplished by the contractor entering into a written cooperative agreement with Virginia Department of Agriculture and Consumer Services (VDACS) of IAW this quarantine. A copy of this cooperative agreement and all related documents (permits, certificates, etc.) will be provided to the Government project manager.
- (4). The media used must have been generated from property in the Commonwealth of Virginia.

(5). Regulated articles:

- (a). Any life stage of imported fire ant.
- (b). Soil (except potting soil that is shipped in original containers after commercial preparation, and soil samples shipped to approve labs).
- (c). Plants with roots, rhizomes, and plants roots and rhizomes.
- (d). Grass sod.
- (e). Used soil moving equipment (earth moving equipment such as hand shovels, backhoes, bulldozers, etc.).
- (f). Hay and straw, including pine straw that has been stored/used in direct contact with soil.
- (g). Honey bee hives and honey bee stands that have been in direct contact with the soil.
- (h). Logs, pulpwood, mulch, and stump wood that has been in contact with soil.
- (i). Any other article or means of conveyance when determined that it presents a risk of spreading the imported fore ant.

(6). Excavation, Delivery, and Transport Screening:

- (a). Should contamination be detected (e.g. free product, stained soils, chemical odors) during excavation or delivery, soil operations shall be immediately discontinued until CEIE notification and resolution. Additional soil testing and screening may be required to determine if continued use site is acceptable.
- (b). To prevent unwanted spread of contamination or a stormwater illicit discharge:
 - i. Trucks and other vehicles for over the road work by bringing materials onto the installation; taking materials off the installation; or moving materials on the installation being used to transport soil/dirt or other materials which:
 - a. Could be blown off the vehicle must be covered.
 - b. Fall from the transport vehicle during transport must be at least "Broom Clean."
 - c. Could leak liquids cannot be transported
 - ii. Off road or other material moving equipment being use to move solids on the installation must:
 - a. Immediately recover or clean up any spilled materials to prevent stormwater illicit discharges
 - b. At the end of shift or by the end of the day clean up spilled materials which didn't have an immediate impact of stormwater.
 - c. During rain events, all materials must be clean up immediately to prevent an illicit discharge.
 - iii. Clean up operations must prevent fugitive emissions e.g., windblown dust clouds, etc.

- (7). Contaminated Soils: No contaminated soils (Hazardous Waste; Non-Hazardous Waste; Petroleum Contaminated) will be used on JBLE-E and must be appropriately removed from the installation and disposed at a JBLE-E approved facility (see 20.1.3).

D. Disposition of soils:

- (1). All soils (Hazardous Waste; Non-Hazardous Waste; Petroleum Contaminated, etc.) removed from the Installation must be transported to an approved Treatment, Storage, or Disposal Facility (TSDF), landfill, soil remediation facility, or other approved facility by the CEIE. NOTE: UNDER NO CIRCUMSTANCES will soil taken from the installation be donated to off-base sources for reuse or utilized for any off-base actions other than disposal/remediation as stated above.
- (2). Transporters must be approved in writing by the CEIE.
- (3). Copies of manifests and bills of lading will be provided to and signed by CEIE as required (All Manifests).

E. Soil Management Plan (SMP): The SMP will specify and include as a minimum the following:

- (1). Categories of Soil actions from paragraph 20.1.
- (2). How and where soils will be used on the Installation.
- (3). Sampling Plan.
- (4). Certifications and sampling reports.
- (5). Transportation; Disposal of soils on and off the Installation.

F. Clean Soil Testing Standards:

- (1). The analysis must be performed by a laboratory approved by CEIE and by a Virginia Environmental Laboratory Accreditation Program laboratory. All sampling and analysis will be completed IAW SW846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods.
- (2). Submit a copy of the chain of custody and complete validated report of analysis to CEIE for review and approval.
 - (a). At least 30-days prior to use of any borrow soils or other off Installation sources.
 - (b). A Hazardous Waste determination must be made prior to any excavation or stockpiling for any soils destined disposal or relocation on the installation. This must be coordinated with the CEIE.
 - (c). Chemical testing will include, but is not limited to the following based on the sampling plan:
 - i. Total Petroleum Hydrocarbons (TPH) to include Gasoline Range Organics (GRO) and Diesel Range Organics (DRO);
 - ii. Volatile Organic Compounds (VOCs) to include Benzene, Toluene, ethyl benzene, and Xylene (BTEX);
 - iii. Semi-volatile Organic Compounds (SVOCs);
 - iv. Pesticides & Herbicides;

- v. Polychlorinated Biphenyls (PCBs);
 - vi. Total Organic Halides (TOX)
 - vii. EPA target compound list/target analyte list (TCL/TAL)
 - viii. RCRA TCLP Hazardous Waste Characteristics (i.e.,toxicity)
- G. Sample Plan: The project specific sampling plan will be will be prepared and completed IAW SW846. The contractor shall submit a Sample Plan for the CEIE review and approval. The sampling plan should address the following as appropriate:
- (1). Site map
 - (2). Excavation area;
 - (3). Location and depth of samples (laterally and vertically).
 - (4). Source of the materials;
 - (5). Sampling methodology;
 - (6). Historical use data from where soil is obtained.
 - (7). Volume of materials to be disposed, relocated, etc.
 - (8). Certification of no listed wastes from corporate officer for offsite source