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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

February 2, 1996

CERTIFIED MAIL Z 075 010 992
RETURN RECEIPT REQUESTED

DRP-8J

Mr. G. K. Hill, Deputy Director
Public Works Directorate
Department of the Navy
Naval Surface Warfare Center
300 Highway 361
Crane, Indiana 47522-5001

RE: Interim Measures Work Plan
SWMU 02/11, Dye Burial Grounds
Naval Surface Warfare Center
Crane, Indiana
IN5 170 023 498

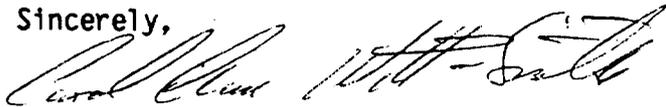
Dear Mr. Hill:

The United States Environmental Protection Agency (U.S. EPA) hereby approves the Work Plan and Task-Specific Site Safety and Health Plan for Interim Measures Cleanup (Capping) at Solid Waste Management Unit (SWMU) #02/11 (Dye Burial Grounds), dated November 9, 1995, with the attached modifications. See Attachment I. This approve is also conditional upon the receipt and approval of a revised design of the drainage trench and anchor trench blueprint details. The current design of this component is not acceptable. The rest of the construction and design aspects are approved.

Please submit a copy of the revised drainage trench and anchor trench blueprint details within 30 days of the date of this letter. The Navy may begin implementation of the construction of the cap for this SWMU (with the exception of the drainage trench and anchor trench). Please notify us of the detailed construction aspects as the construction phases progress (e.g., panel layouts, etc.). We are requesting a verbal two week notice of any construction activities, including tree clearing, in order to afford our travel for any possible oversight inspections.

Due to the pending budget problems of the Agency, if travel cannot be afforded, we would like a video produced showing the key phases of each portion of the construction for the record (i.e., as each layer is constructed, before and after shots, etc.). Your cooperation in this manner is greatly appreciated. If you have any questions regarding this matter, please contact me at (312) 886-6146.

Sincerely,



Carol Ann Witt-Smith
Corrective Action Expert
WMB, IL/IN/MI Section

cc: Tom Linson, IDEM
Mike Sickels, IDEM
Brian Von Gunten, IDEM BRAC
Jim Hunsicker, NSWC
Tom Brent, NSWC
Adrienne Wilson, SOUTHDIV
Robert Hlavacek, Morrison Knudsen Corp.
Steve Downing, Morrison Knudsen Corp. at NSWC

ATTACHMENT I

APPROVAL MODIFICATIONS

Work Plan and Task-Specific Site Safety and Health Plan
for Interim Measures Cleanup
at Solid Waste Management Unit (SWMU) #02/11 (Dye Burial Grounds)

1. Blueprint Sheet 3 of 9, Worksite Limits

The reference "Toe of Cap and Daylight Slope" or "Toe of Cap Area Slope" shall refer to the final toe of the soil cover of the cap, not any geosynthetic materials used.

2. Appendix B, Construction Specifications

- a. Page 01300-2, Section 1.4, B., change "maybe" to "may be."
- b. Page 02200-2, Section 2.1, A., change "geotextiles" to "geosynthetics." All the synthetic layers have to have clean surfaces under them.
- c. All references to "EPA/530/SW-86/031, Construction Quality Assurance for Hazardous Waste Land Disposal Facilities" shall be deleted. The current replacement guidance document: "EPA/600/R-93/182, Quality Assurance and Quality Control for Waste Containment Facilities" shall be used and referenced instead. The Construction Quality Assurance Plan and as-built documentation must reflect the usage of EPA/600/R-93/182.

The text on the following pages is modified:

- i. Page 02250-2, Section C.
- ii. Page 02250-3, Section 1.5, A, 2.
- d. Page 02250-7, Table 1, add the test method number "ASTM D-5199" to the table for the property of thickness.
- e. Page 02250-17, Section D.2.d., the frequency of destructive seam testing shall also consider the size of the unit. Sufficient testing must be implemented to assure the quality of the seaming. A minimum frequency of every 500 linear feet of seam or one destructive seam test per day, if that length of seaming is not met in one day, must be performed.

3. Appendix C, Field Inspection Checklists

- a. Checklist Number GCL-02, Item 7. Delete the use of this item since there are no sumps in the cap design.
- b. Checklist Number GEOTEX-01, Item 2. Typographical errors. "Hae" should be changed to "have", and "confromance" should be changed to "conformance."

- c. Checklist Number DBF-01, Item 5. Typographical error. "complane" should be changed to "compliance."
4. Health and Safety Plan, Section 2.5.1, Page 5
Add the following highlighted text to the end of the paragraph. "...The minimum level of PPE is Level D which includes hard hat, safety glasses with side shields, and steel toe work shoes." **With the exception of shoes used during liner installation, required by the installer to prevent damage to the geosynthetic materials.**
5. Health and Safety, Insects
Please remember to consider the safety hazardous from ticks that are found in the area. Personnel should be informed on proper procedures in dealing with them.

BLUEPRINT DETAIL NOT ACCEPTED NEEDING REVISION

1. Blueprint Sheet 9 of 9, Cap Construction Details
 - a. The "Details of Drain Installation" and "Half-Section of Cap Area" must be modified. The current design reflects that the biotic barrier becomes the drainage trench. These should be two separate components that are not connected.
 - b. The sand drainage layer should be connected to the drainage trench. The geotextile fabric should not be a barrier between the sand layer along the slopes and the drainage trench at the toe.
 - c. Fine material (i.e., silt, etc) must be prevented from clogging the drainage pipe. The pipe should not be directly wrapped, but a zone of gravel around the pipe, and then wrapping, and then sand around it connected to the drainage layer, should be considered. See enclosed figure.
 - d. The anchor trench normally is fitted into the ground. If the existing design is used, explain why it is sufficient to anchor the cap synthetic materials.

Revise any blueprints reflecting the changes to these two components.
2. Appendix B, Construction Specifications, Page 02200-7
Section D. must be changed to reflect the revised design.
3. Appendix C, Checklist Number DBF-02, Item 3
This item does not make sense. "If no contaminated materials have been noted, modify decontamination procedures been re-evaluated and appropriately." Please revise.

