

CEMP-RT

Technical Letter  
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**Engineering and Design  
CHECKLIST FOR DESIGN OF VERTICAL BARRIER  
WALLS FOR HAZARDOUS WASTE SITES**

**1. Purpose**

*a.* This engineer technical letter transmits a document for the design of vertical barrier walls for hazardous waste sites. The document was developed to aid in project planning, scheduling, and budgeting; scoping predesign investigations and architect/engineer (A/E) services; as a guidance document for design of vertical barrier walls; for use in reviewing A/E products; and as a source for technical references.

**2. Applicability**

This letter applies to HQUSACE elements and USACE commands having hazardous, toxic, and radioactive waste (HTRW) investigation, design, and remedial action responsibility.

**3. References**

References are listed in Appendix A.

**4. Discussion**

The document will focus on slurry walls; however, other types of vertical barrier walls will also be discussed. The document is divided into two sections, a narrative section and a checklist. The narrative section briefly discusses design aspects for vertical barrier walls and provides design references. The checklist section contains a list of questions covering pertinent aspects of design that were discussed in the narrative section.

**5. Actions Required**

The topics listed in this checklist are to be considered in the design of vertical barrier walls for hazardous waste sites. It is strongly recommended that input be sought from the appropriate technical staff for all phases of scoping, design, and construction of vertical barrier walls. The involvement of in-house technical expertise is essential to providing a cost-effective, high-quality service to the customer.

FOR THE DIRECTOR OF MILITARY PROGRAMS:

3 Appendices  
APP A - References  
APP B - Vertical Barrier Wall  
Design Considerations  
APP C - Vertical Barrier Wall  
Design Checklist



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