APPENDIX R

DREDGED MATERIAL AT LANDFILLS
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The need for feasible alternatives to in-Bay disposal and use of dredged material as a resource can be accomplished in part by substituting dredged material for traditional sources of cover, construction, capping, or lining material at sanitary landfills. Landfills are able to use dredged material unsuitable for unconfined aquatic disposal, which makes them a promising disposal option for such material.

LANDFILL ACCEPTANCE OF DREDGED MATERIAL

In order for dredged material to be used at landfills, arrangements must be made on a case-by-case basis with the landfill operator. Currently, it is the burden of the dredger to contact individual landfills in order to determine where dredged material is appropriate for disposal. Dredged material must meet the facility’s waste acceptance criteria, as well as meet any physical characteristics required for a particular use. In order to be accepted at a facility, all material, either for disposal or reuse, must contain at least 50 percent solids and must not contain moisture in excess of the moisture-holding capacity of the landfill, either initially or as a result of waste management operations, compaction, or settlement.\(^1\) The moisture requirement, however, does not affect the possible acceptance of dredged material at landfill sites with rehandling and stockpiling capabilities.

TESTING OF MATERIAL

In accordance with the testing guidelines set out by the U.S. Army Corps of Engineers (USACE) and the U.S. Environmental Protection Agency (USEPA), dredged material proposed for aquatic disposal must undergo elutriate analysis and be evaluated for water-column toxicity. The tests required for aquatic disposal are distinct from the bulk chemical and Waste Extraction Test (WET) analyses required for disposal at a landfill.

LANDFILL DISPOSAL FEES

Landfills charge a tipping fee for accepting waste, which varies from facility to facility. Tipping fees for landfill units with greater engineering controls (Class II) are higher than for units with less stringent controls (Class III). Landfills may also discount or waive fees for material that will be used in operations (e.g., for daily cover), depending on the composition of the waste and the need of the landfill to acquire such material. The Solid Waste Facility permit limits the daily tonnage of waste that a landfill can accept. All waste, upon arrival, is weighed and subjected to a state disposal surcharge. All material accepted at a landfill is included in the permitted daily tonnage of the facility and is subjected to the state surcharge, except for soil, either clean or contaminated, used for daily cover, or approved Alternative Daily Cover.\(^2\) The exemption of contaminated soil from the state

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\(^1\) Typical Wastes Acceptable at Class III Landfills

\(^2\) Scott Walker, IWMB. Personal Communication, 1/7/94.
surcharge and daily tonnage is outlined in *LEA Advisory No. 5 “Use of Non-Hazardous Contaminated Soil as Daily Cover,”* issued by the Integrated Waste Management Board on December 15, 1993.

**LANDFILL FEASIBILITY**

Sixteen of the 127 Bay and Delta area landfills that were studied through the LTMS have been identified as highly feasible for accepting dredged material for reuse purposes. (This does not include Redwood Landfill in Marin County which is already accepting dredged material for use as daily cover.) The sixteen highly feasible landfill sites are located in eight different counties. They have a total capacity to accept over five million cubic yards (mcy) of dredged material for use in the landfills’ operations, with individual site acceptance ranging from 35,000 cy to 2 mcy per year. The life expectancy for these sixteen landfills ranges from one to more than fifty years, with the mean average being nineteen years.