

BEFORE THE METRO COUNCIL

FOR THE PURPOSE OF AUTHORIZING)
RELEASE OF RFB #01B-20-REM FOR)
CONSTRUCTION OF A CEMENT-)
BENTONITE SLURRY TRENCH CUTOFF)
WALL AT THE ST. JOHNS LANDFILL)

RESOLUTION NO. 01-3062

Introduced by Mike Burton,
Executive Officer

WHEREAS, an area of the perimeter dike of the St. Johns landfill is in need of the installation of a low-permeable cutoff wall as described in the accompanying staff report; and

WHEREAS, staff has prepared the request for bids attached as Exhibit "A"; and

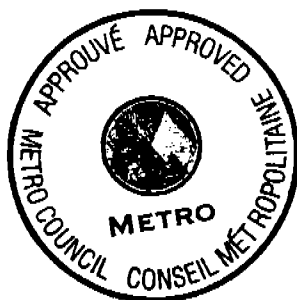
WHEREAS, the project was identified in Metro's Adopted Capital Improvement Plan and the proposed FY 2001-2002 budget; and

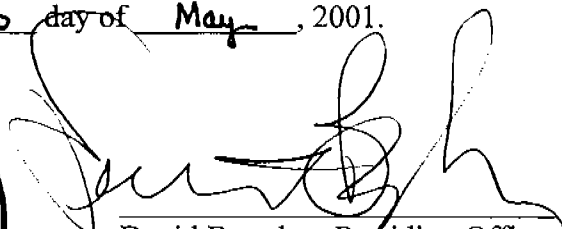
WHEREAS, this resolution was submitted to the Executive Officer for consideration and was forwarded to the Council for approval; now therefore,

BE IT RESOLVED,


1. That the Metro Council authorizes issuance of RFB #01B-20-REMB
2. That the Metro Council, pursuant to Section 2.04.026(b) of the Metro Code, authorizes the Executive Officer to execute a contract with the most responsive, responsible bidder.

ADOPTED by the Metro Council this 3RD day of May, 2001.




David Bragdon, Presiding Officer

Approved as to Form:


Daniel B. Cooper, General Counsel

REQUEST FOR BIDS
FOR THE
ST. JOHNS LANDFILL
CEMENT/BENTONITE SLURRY
CUTOFF WALL

MARCH 2001

RFB #01B-20-REM

Metro
Regional Environmental Management Department
600 N.E. Grand Avenue
Portland, OR 97232-2736
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**EXECUTIVE SUMMARY
RESOLUTION 01-3062
INSTALLATION OF A CEMENT/BENTONITE
SLURRY TRENCH CUTOFF WALL**

PROPOSED ACTION

- Adopt Resolution No. 01-3062, which authorizes release of RFB #01B-20-REM, and authorizes the Executive Officer to execute a contract for the installation of a cement/bentonite slurry trench cutoff wall at the St. Johns Landfill.

WHY NECESSARY

- The perimeter dike of St. Johns Landfill serves as a filter and barrier between the solid waste in St. Johns Landfill and surrounding surface water.
- Metro has located approximately 1,025 feet of the perimeter dike that is contaminated with solid waste.
- Repair will confer long-term stability and reduce the possibility of contaminant migration by improving the barrier between the waste and surface water in North Slough.
- This is the second phase of the dike stabilization project that was approved by the Council in 2000, and is required to complete that work.
- Metro's analysis indicates that the cement/bentonite wall provides the most cost-effective and technically sound solution to the problem.

ISSUES/CONCERNS

- It is necessary to select an experienced contractor without delay in order to perform the slurry design requirements and allow construction of the wall prior to slough water levels dropping in late summer.

BUDGET/FINANCIAL IMPACTS

- The cement/bentonite cutoff wall is included in the CIP and is budgeted in FY2001-2002 at \$459,360. Payments will be made from the St. Johns Landfill Closure Account.

STAFF REPORT

IN CONSIDERATION OF RESOLUTION NO. 01-3062 FOR THE
PURPOSE OF AUTHORIZING RELEASE OF RFB #01B-20-REM
FOR THE INSTALLATION OF A CEMENT/BENTONITE SLURRY
TRENCH CUTOFF WALL AT THE ST JOHNS LANDFILL

Date: March 29, 2001

Presented by: Terry Petersen

PROPOSED ACTION

Adopt Resolution No. 01-3062 that authorizes release of RFB #01B-20-REM and authorizes the Executive Officer to execute a contract with the most responsive, responsible bidder.

EXISTING LAW

This contract is identified as having significant impact on Metro in the FY 2001-2002 budget. In accordance with Metro Code 2.04.026 contracts with significant impact require Council approval.

FACTUAL BACKGROUND AND ANALYSIS

From 1940 to 1991 about 12 to 15 million tons of solid waste were buried in St. Johns Landfill. Some of it may be hazardous waste including pesticide-manufacturing residues. This source of contamination is separated from the surrounding surface water by a perimeter dike, both natural and engineered, consisting mostly of low-permeability silt. This soil retards or stops the movement of most contaminants from the waste, especially the more toxic contaminants. Surface water is eating away at this filter and barrier.

Metro assumed operational responsibility for the St. Johns Landfill from the City of Portland in 1980 and purchased the landfill in 1990. From 1992 to 1996 Metro constructed a 225 acre, membrane based, cover system over the landfill in order to control the impact of the landfill on the surrounding wetland environment. Metro is now concentrating its attention of the perimeter dike and has identified critical sections needing immediate attention.

Metro has identified a 1,025-foot section of the north perimeter dike that is partially constructed of waste contaminated soil. The refuse buried in the dike could increase the permeability of the dike and create a preferential pathway for leachate to enter the North Slough.

To reduce the possibility of contaminant migration, Metro has developed a design for a cement/bentonite cutoff wall based on conditions specific to St. Johns Landfill. Metro retained a consulting engineer to design a means of improving the integrity of the dike in this area. The cement/bentonite wall was selected as the most cost effective and technically sound solution to the problem. A 2½-foot wide trench will be cut in the perimeter road and filled with a cement/bentonite slurry mixture. When solidified, the trench will form a barrier that will reduce

or stop the migration of contaminated liquids. The adjacent bank was protected and stabilized in summer 2000 in preparation for the installation of the cement/bentonite cutoff wall.

Metro has received authorizations from the City of Portland and is submitting the contract documents to DEQ for its review.

BUDGET IMPACT

Construction of the cement/bentonite slurry trench cutoff wall is in the proposed budget in the St. Johns Landfill Closure Account for FY 2001-2002 at \$459,360. The engineers estimate for the CB wall is \$452,000.

EXECUTIVE OFFICER RECOMMENDATION

The Executive Officer recommends approval of Resolution No. 01-3062.