



Summary of:

MWRA Board of Directors' Meeting

January 27, 1999

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A meeting of the Board of Directors of the Massachusetts Water Resources Authority was held on January 27, 1999 at the University of Massachusetts, Boston campus. **Present:** Chair Robert Durand, Gubernatorial Representative; John Carroll, Andrew Pappastergion, Norman Jacques, Advisory Board Representatives; Vincent Mannering, Andrea d'Amato, City of Boston Representatives; Joseph MacRitchie, City of Quincy Representative; Lucile Hicks, Gubernatorial Representative. **Absent:** Marie Turner, Town of Winthrop Representative; Donald Mitchell, Gubernatorial Representative; Robert Spinney, City of Boston Representative.

[Contract Amendments/Change Orders](#)

[Other Business](#)

AGENDA

Report of the Chair

No Report.

Report of the Executive Director

No Report.

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CONTRACT AMENDMENTS/CHANGE ORDERS

Effluent Outfall Tunnel: Kiewit/Atkinson/Kenny, J.V.

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 61 to increase the contract price on Contract No. 5637, Effluent Outfall Tunnel, with Kiewit/Atkinson/Kenny, J.V., in the amount of \$2,128,685 and to extend the time for completion by 31 calendar days to November 27, 1998. Further, the Board authorized the Executive Director to approve additional change orders as may be needed to Contract No. 5637

in amounts not to exceed the aggregate of \$250,000, and time extensions not to exceed the aggregate of 180 calendar days. The original contract price was \$210,959,987. Change orders now total \$23,798,640 or 11.78% of the original contract amount.

This change order includes the installation of a sodium bisulfite system in the Effluent Outfall Tunnel which requires drilling two vertical shafts, lining the shafts with fiberglass pipe, installation of 870 linear feet of piping along the wall on both sides of the finished tunnel, and installation of a valve chamber, associated piping and hangers at a cost of \$2,128,685. This system will reduce the residual chlorine in the effluent, an expected requirement in the discharge permit. Staff explained that the original concept design for disinfection facilities on Deer Island called for four basins to disinfect and dechlorinate plant effluent. After award of the Effluent Outfall Tunnel contract, another design solution was developed where only two disinfection basins would be constructed and the outfall tunnel itself would be used to provide the remaining disinfectant contact time. This change resulted in savings of approximately \$12.6 million in capital costs.

Nut Island Headworks: Modern Continental/SAE Americon, J.V.

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Change Order No. 110 to increase the contract price on Contract No. 5850A, Nut Island Headworks, with Modern Continental/SAE Americon, J.V., in the amount of \$942,000. Further, the Board authorized the Executive Director to approve additional change orders as may be needed to Contract No. 5850A in amounts not to exceed the aggregate of \$250,000. The original contract price was \$62,864,000. Change orders now total \$21,882,461 or 34% of the original contract amount.

This contract includes the final landscaping of the landforms at Nut Island, including the planting of trees and shrubs. Although, excess fill material stockpiled on Deer Island meets the contract requirements for use as fill material to construct the landform and for fill material for the area below or around trees and shrubs, recent percolation tests determined that the material would not provide adequate drainage for the plantings. Since the material is not appropriate for this purpose, the contract documents are defective and this change order is due to a designer error. The change order will allow the contractor to furnish and place 26,000 cubic yards of select borrow material for the area below and around the plantings at a total cost of \$942,000.

Emergency Evaluation of High Level Sewer, Sections 70 & 71, Roslindale: Simpson, Gumpertz & Heger

The Board voted to authorize the Executive Director, on behalf of the Authority, to approve Amendment No. 2 to increase the contract price on Contract No. 6519, Emergency Evaluation of High Level Sewer, Sections 70 & 71, Roslindale, with Simpson, Gumpertz & Heger in an amount not to exceed \$100,000 and to extend the time for completion by 244 days to August 31, 1999. The original contract price was \$83,929. Amendments now total \$128,390.

The staff summary explains that Simpson Gempertz & Heger Inc. (SGH) has recently completed its emergency evaluation and presented findings to the MWRA regarding overflows from the High Level Sewer in the Washington Street/Archdale Road area of Roslindale. Based on inspections of the High Level Sewer, SGH has identified significant cracking at the 77 degree bend in the Archdale Road area which requires immediate attention. This amendment will provide the scope of services necessary for Simpson Gumpertz & Heger Inc. to prepare final contract bid documents for, and oversee construction of, urgent repairs required at the 77 degree bend.

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OTHER BUSINESS

Board Retreat/Business Plan Discussion

The Board reviewed the Authority's five-year Business Plan. Staff explained that the Business Plan is a strategic road map which presents specific steps that the organization will undertake to improve customer service, upgrade operations and maintenance, and pursue aggressive rates management. The Business Plan includes forty-four goals which were each briefly reviewed by the Board. In addition, staff provided the Board with information on future rates and options

for rates management. The Authority is projecting annual wholesale rate increases of 7.3% over the next six years.

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