

# Open Reservoirs

## Council Resolution and Next Steps

July 28, 2004

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## Council Action Item

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- Resolution for Council approval
  - Responds to Council directives and comments from Council Informal on June 8, 2004
  - Provides direction for the Water Bureau to implement interim measures until Long Term 2 Enhanced Surface Water Treatment Rule (LT2) is final

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## Resolution – What it Does

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- Accepts report and majority recommendation of Mt Tabor Open Reservoirs Independent Review Panel
  - Responds to panel recommendation to wait for LT2 to be finalized prior to any actions to meet rule
  - Provides direction for Bureau to work with members of the public, Parks and Police to develop and submit a risk mitigation plan to regulators when LT2 is finalized

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## Resolution – What it Does

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- Directs Bureau to implement Interim Security Plan
  - Implements security goals of reducing risk of contamination, improving response
  - Provides for additional security staff to patrol water system
  - Interim capital security investment for open reservoirs consistent with recommendations in security vulnerability assessment, and with input from Parks, Police Bureau

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## Resolution – What it Does

- Directs Bureau to implement deferred maintenance measures at reservoirs
  - Maintenance investment will provide additional safety and security, and improved response at reservoirs
  - Deferred maintenance measures have been prioritized so as not to conflict with potential LT2 outcomes

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## Phase I Enhanced Security Measures and Infrastructure Investments

- Phase I includes the following in operations and maintenance investments:
  - 5 additional contract security staff for onsite patrol of both reservoir sites
  - 1 additional bureau security staff to provide lead coverage
- Phase I includes the following capital infrastructure investments:
  - Mt. Tabor
    - Additional video camera, alarm upgrades and monitoring sensors
    - Design work for remote controls of isolation valves
    - Upgrades to Reservoir 5 gatehouse for onsite security monitoring and office facility for security staff
    - Pressure reducing valve (PRV) allowing emergency flow into distribution system
    - Vegetation control, improved signage and tennis court barrier

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## Phase I Enhanced Security Measures and Infrastructure Investments

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- Phase I includes the following capital infrastructure investments:
  - Washington Park
    - Perimeter detection system, gate improvements and vehicle access controls
    - Finish installation of remote controls on isolation valves
    - Monitoring sensors and security upgrades to on-site buildings
- Phase I will also include sidewalk repairs at both reservoir sites to provide a safer walking surface.

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## Resolution – What it Does

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- Other Actions
  - Places covers at Washington Park on hold pending LT2 outcome and further Council direction
  - Outlines FY 05-06 security and maintenance measures to be further developed and discussed as part of next budget process

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## Funding

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- Rate Savings of 0.5% from FY 04-05 approved 1.2% rate for Open Reservoirs Program deposited in an escrow account in the City Treasury and applied to FY 05-06 Water rates (\$280,000)
- 0.7% of rate used to increase security staff coverage (\$392,000)
- Capital investments (security and deferred maintenance) from reprioritized FY 04-05 CIP

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## Limitations

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- Interim measures will not provide the level of security recommended in the Security Vulnerability Assessment (HDR, 2003)
- Measures will improve detection of site access
- Measures will only partially improve detection of intrusion affecting the drinking water
- Measures do not constitute a risk mitigation plan for purposes of meeting LT2

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## Summary of Proposed Interim Costs

	<b>Phase I FY 04-05</b>	<b>Phase II* FY 05-06 Preliminary</b>
<b>Capital Security</b>	<b>\$ 1,270,000</b>	<b>\$2,013,000</b>
<b>Deferred Maintenance</b>	<b>\$4,901,000</b>	<b>\$2,420,000</b>
<b>Total Capital</b>	<b>\$6,171,000</b>	<b>\$4,433,000</b>
<b>O&amp;M Security (equal to 0.7% rate impact)</b>	<b>\$392,000</b>	<b>\$392,000</b>

\*Subject to additional analysis and Council approval of  
FY 05-06 budget

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