



# CLEARWATER COOLING TOWER MAINTENANCE

## Riverside Public Utilities

### Board of Public Utilities

January 27, 2025

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## BACKGROUND

1. Clearwater Power Plant (Clearwater)
  - a. Commissioned in 2005
  - b. Acquired by Riverside Public Utilities (RPU) in 2010
  - c. Combined cycle power plant that uses both a gas and steam turbine to produce 30 megawatts of efficient power
2. Cooling Tower
  - a. Essential for plant operations
  - b. Crucial component of the waste heat steam system
  - c. Relies on water, airflow, and evaporation to dissipate heat
  - d. Normal routine maintenance is required



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# BACKGROUND – COOLING TOWER

External Images of the Clearwater Cooling Tower

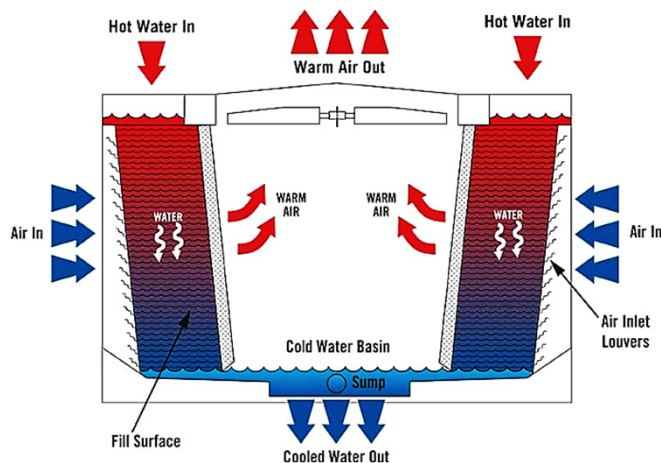


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# BACKGROUND – COOLING PROCESS



1. Hot water from condenser is distributed over fill media
2. It is cooled by the airflow induced by large fans that draw cool air in and expel warm air
3. Cool water collects in the basin at the bottom of the tower
4. Pumped back into the condenser and other plant systems



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# DISCUSSION – RFP 2412

- 1. Request for Proposal (RFP) No. 2412 posted September 5, 2024
  - a. 500 external vendor notified
  - b. 132 City of Riverside vendor notified
  - c. 31 prospective bidder downloaded the RFP
- 2. On October 16, 2024, three proposals were received:

Vendor	Location	Total	Rank
<b>Air Treatment Corporation</b>	<b>San Diego, CA</b>	<b>\$514,899.69</b>	<b>1</b>
American Cooling Tower, Inc.	Santa Ana, CA	\$612,092	2
Energy Options, Inc.	Paramount, CA	\$559,935	3

- 3. Air Treatment Corporation
  - a. Highest rated proposal
  - b. Original Equipment Manufacturer
  - c. Lowest Pricing – Included additional maintenance items



# STRATEGIC PLAN ALIGNMENT



## Strategic Priority 5 – High Performing Government

Goal 5.4 – Achieve and maintain financial health by addressing gaps between revenues and expenditures and aligning resources with strategic priorities to yield the greatest impact.



## Strategic Priority 6 – Infrastructure, Mobility & Connectivity

Goal 6.2 – Maintain, protect, and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

### Cross-Cutting Threads



Community Trust



Equity



Fiscal Responsibility



Innovation



Sustainability & Resiliency



## RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve Services Agreement with Air Treatment Corporation of San Diego, California to perform cooling tower maintenance at the Clearwater Power Plant in the amount of \$514,899.69; and
2. Authorize the City Manager, or his designee, to execute the Services Agreement with Air Treatment Corporation, including making non-substantive changes.



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