

Agenda Report

December 13, 2021

TO: Honorable Mayor and City Council

FROM: Water and Power Department

SUBJECT: AUTHORIZE A CONTRACT WITH CALGON CARBON CORPORATION TO FURNISH AND DELIVER THE WADSWORTH GRANULAR ACTIVATED CARBON GROUNDWATER TREATMENT SYSTEM

RECOMMENDATION:

It is recommended that the City Council:

1. Find that the project is exempt from the California Environmental Quality Act ("CEQA") pursuant to State CEQA Guidelines Sections 15301 (Existing Facilities) and 15303 (New Construction of Small Structures) and that there are no features that distinguish this project from others in the exempt classes and, therefore, there are no unusual circumstances; and
2. Authorize the City Manager to enter into a contract, based on a competitive selection process pursuant to Pasadena Municipal Code Section 4.08.047, with Calgon Carbon Corporation to furnish and deliver the Wadsworth Granular Activated Carbon Groundwater Treatment System per Request for Proposals WD-21-12 for the Water and Power Department ("PWP") in an amount not to exceed \$2,147,945, which includes the base contract amount of \$1,952,677 and a contingency of \$195,268 to provide for any necessary change orders. Competitive price bidding is not required pursuant to City Charter Section 1002(F)(contracts for professional or unique services).

BACKGROUND:

PWP is planning for the construction and operation of a groundwater treatment plant to remove 1,2,3-trichloropropane ("TCP") from the groundwater source. TCP, a volatile organic compound, is a manmade chemical that has a range of industrial uses including use as a binder in rocket fuel. The California State Water Resources Control Board Division of Drinking Water ("DDW") set the maximum contaminant level for TCP at 5 parts per trillion (0.000005 milligrams per liter) in 2017. Maximum contaminant level is the highest level of contamination that is allowed in drinking water by law. In 2019, two east side groundwater wells, Wadsworth Well and Woodbury Well, had detected TCP levels that exceeded the maximum contaminant level established by the DDW. These wells operated only when water delivered has non-detected TCP levels.

The Water System and Resources Plan, a long-term water resources and infrastructure planning document, was adopted by City Council in October 2021 and identified the benefits of installing groundwater treatment rather than purchasing additional imported water from the Metropolitan Water District of Southern California in order to maximize local supply and provide resiliency and reliability in the water system.

The Wadsworth Groundwater Treatment Plant will be constructed on PWP property adjacent to the existing Wadsworth Well located at 115 North Vinedo Avenue. It is designed to remove TCP from Wadsworth and Woodbury wells. The treatment system will use liquid-phase granular activated carbon ("GAC"), which is a proven treatment method and permitted by the DDW for removing TCP. A third nearby well, Craig, is also included in the design of the treatment system. Craig Well has not been operational since 2006 due to mechanical reasons; however, it is planned for rehabilitation and operation in early 2022. If TCP is detected in water from Craig Well at that time, it will also be treated by the Wadsworth Groundwater Treatment Plant.

The project, once completed, will include a disinfection system, an emergency generator, and solar panels to generate renewable power. A new concrete masonry wall and landscaping will be installed around the property for security and visibility improvements. The capacity of the treatment plant will be approximately 2,500 gallons per minute and is expected to be online by summer 2023.

The project will be solicited in two phases. The first, presented here, is a Request for Proposals ("RFP") for the liquid-phase GAC treatment system. The proposers were requested to (1) design the treatment system, (2) demonstrate effectiveness of the proposed treatment system, (3) guarantee the performance after installation, and (4) procure and deliver the treatment system. The design of the treatment system and the required guarantee of the performance of the system within the parameters set by PWP qualified the work as a professional or unique service, which is exempt for competitive bidding as set forth in City Charter Section 1002(F). Per Pasadena Municipal Code 4.08.047, for contracts that are not required to be competitively bid, a competitive selection process shall be provided which will be open to all persons qualified to perform such service.

The second solicitation phase will be a competitively bid contract for the construction of the Wadsworth Groundwater Treatment Plant, which is anticipated to be presented to City Council in March 2022. Staff is proceeding with the purchase of the liquid-phase GAC treatment system in advance of the overall project because in addition to being more cost effective to purchase it directly by the City, the system requires a 10-month lead time for ordering, manufacturing, and delivery. If the purchase was combined with the construction project, it would have delayed the overall completion of the project by 4 months or more.

Contractor Selection Process

PWP issued the RFP on October 12, 2021 and it was posted on the City's website through PlanetBids in accordance with the applicable provisions of the Pasadena Municipal Code. The posting generated notices to all vendors who have previously registered with the City for this particular commodity class. A total of 44 vendors

downloaded the Specifications, of which none were local. Staff conducted research and did not find any local vendors that provide GAC treatment system and associated services. Four proposals were received on November 12, 2021 and the proposals were scored by engineering staff in PWP and the design consultant, based on the criteria shown in Table 1.

Table 1: RFP Scoring Criteria

Scoring Criteria	Max Points
Cost Proposal	40
Performance Criteria	50
Local Pasadena Business Preference	5
Small / Micro-Businesses Preference entitlement	5
Total Score	100

Based upon these criteria, Calgon Carbon Corporation (“Calgon”) received the highest evaluated score as summarized in Table 2 and is the recommended vendor. Attachment A includes a detailed breakdown of the evaluated scores for each respondent. Calgon’s proposal ranked highest based on its comprehensive and detailed performance criteria with a proven track record for safely and successfully removing volatile organic compounds from groundwater. In addition Calgon provided a cost-competitive proposal. The engineer’s estimate was \$2,048,000 which was in line with Calgon’s proposal of \$1,952,677.

Table 2: RFP Respondents

Vendor/Respondent	Company Location City and State	Evaluated Score (Out of 100)
Calgon Carbon Corporation	Moon Township, PA	83
Evoqua Water Technologies, LLC	La Mirada, CA	70
Aqueous Vets	Danville, CA	68
Loprest Division of WRT	Westminster, CO	59

PWP is recommending that the City Manager enter into a contract with Calgon in an amount not to exceed \$2,147,945 for the proposal amount and a 10% contingency to purchase and deliver the liquid-phase GAC treatment system and media, all appurtenances, and in accordance with RFP WD-21-12. The delivery of the system is estimated to occur in November 2022.

PWP administered a contract with Calgon from October 2008 to December 2015 for a total value of \$18,184,798 to fabricate and install the Monk Hill Treatment Plant (“MHTP”). In 2016 and in 2019, Calgon was awarded multi-year purchase order contracts for total values of \$1,751,421 and \$1,915,170, respectively, to provide GAC and ion exchange resin media for the MHTP. In 2018, Calgon was awarded a purchase order for a total value of \$9,162.93 for pre-filters for the MHTP.

COUNCIL POLICY CONSIDERATION:

The proposed contract is consistent with City Council’s Strategic Planning Goals to: (i) Improve, maintain, and enhance public facilities and infrastructure; and, (ii) Ensure public safety. It supports PWP’s Water System and Resources Plan adopted by City

Council in October 2021 by implementing volatile organic compound treatment of groundwater to protect the public, and to provide for a more resilient and reliable water system.

ENVIRONMENTAL ANALYSIS:

The proposed contract is categorically exempt from CEQA pursuant to State CEQA Guidelines Section 15301 (Class 1: Existing Facilities) and 15303 (Class 3: New Construction of Small Structures). Class 1 exempts from environmental review “the operation, repair, maintenance, permitting, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use.” Class 3 exempts construction and location of limited numbers of new, small facilities or structures; and installation of small new equipment and facilities in small structures. The proposed contract would provide for improvements built to facilitate the use of existing groundwater wells. The project would not result in an expansion of use or capacity and following the project, the water served would have the same purpose and capacity as the current facilities. There are no features that distinguish this project from others in the exempt classes and, therefore, there are no unusual circumstances.

FISCAL IMPACT:

The cost of this action will be \$2,147,945 which includes the proposal amount, a 10% contingency of \$195,268, and \$50,000 in anticipated indirect and support costs such as contract administration and consultant services for engineering support. Funding for this action will be addressed by the utilization of existing and future appropriations in Capital Improvement Project 01091 – Treatment Systems. It is anticipated that \$850,000 of the cost will be spent during the current fiscal year. The remainder of the costs will be spent in fiscal year 2023.

The contract summary is shown in Table 3 below:

Table 3: Fiscal Impact

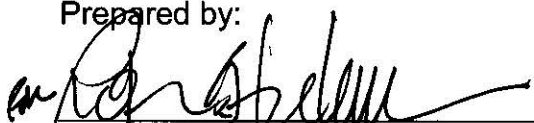
Proposal Amount	\$1,952,677
10% Contingency	\$ 195,268
Total Contract Amount	\$2,147,945
Contract Admin/Engineering Support	\$ 50,000
Total Fiscal Impact: fiscal years 2022 / 2023	\$2,197,945

Respectfully submitted,



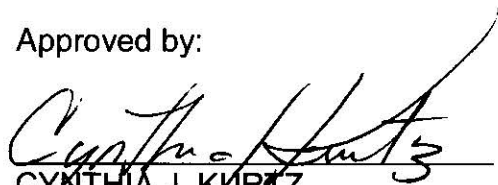
GURCHARAN S. BAWA
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Prepared by:



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Approved by:



CYNTHIA J. KURTZ
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Attachments:

Attachment A: Request for Proposal Evaluation Summary