



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL **DATE: AUGUST 18, 2020**

FROM: PUBLIC WORKS DEPARTMENT **WARDS: ALL**

SUBJECT: SERVICE AGREEMENT FOR MONITORING, DATA ANALYTICS, BI-WEEKLY KPI REPORTS AND 24/7 EMERGENCY TELEPHONE TECHNICAL SUPPORT FOR SUEZ WATER ZEEWEED MEMBRANE BIOREACTOR WITH ZENON ENVIRONMENTAL CORPORATION, OF DUNDAS, ONTARIO, CANADA, THROUGH JUNE 30, 2024 IN AN AMOUNT NOT TO EXCEED \$90,280

ISSUE:

Approve the Service Agreement for monitoring, data analytics, bi-weekly KPI reports and 24/7 emergency telephone technical support for SUEZ Water ZeeWeed Membrane Bioreactor with Zenon Environmental Corporation, of Dundas, Ontario, Canada through June 30, 2024 in an amount not to exceed \$90,280.

RECOMMENDATIONS:

That the City Council:

1. Approve the Service Agreement with Zenon Environmental Corporation of Dundas, Ontario, Canada, to provide monitoring, analytics, bi-weekly KPI reports and 24/7 emergency telephone technical support for SUEZ Water ZeeWeed Membrane Bioreactor with Zenon Environmental Corporation through June 30, 2024 in an amount not to exceed \$90,280; and
2. Authorize the City Manager, or his designee, to execute the Service Agreement with Zenon Environmental Corporation, including making any minor non-substantive changes.

BACKGROUND:

The Public Works Department Wastewater Division Regional Water Quality Control Plant (RWQCP) is responsible for the collection and treatment of wastewater generated within the City of Riverside and the communities of Edgemont, Highgrove, Jurupa, and Rubidoux. The RWQCP is comprised of two plants co-located on the same campus; both plants contribute to the total capacity of the facility. RWQCP staff recently completed a plant-wide expansion and rehabilitation project that increased total plant capacity to 46 million gallons per day (MGD), upgraded processes to meet new lower nitrogen limitations, converted Plant 1 to state-of-the-art Membrane Bioreactor (MBR) Technology designated for Title 22 water reuse. Wastewater is reclaimed,

treated and disinfected at the RWQCP so that it can be reused for irrigation or discharged to the Santa Ana River in accordance with federal, state and local regulations.

The RWQCP currently operates and maintains the new MBR system, which is comprised of reinforced hollow-fiber ultrafiltration (UF) membranes, scour aeration blowers, permeate pumps, back pulse pumps, clean in place (CIP) equipment and associated complex instrumentation. MBR technology is proven to deliver greater effluent and productivity, while reducing the overall lifecycle cost. MBR technology utilizes fully automated processes that enable liquid/solids separation by combining biological waste oxidation and membrane separation; this results in the production of high-purity effluent water and the removal of bio-accumulative or bio-degradable micro pollutants.

DISCUSSION:

RWQCP's MBR system has specialized membranes and associated parts and instrumentation that must be maintained to the manufacturer's specifications and warranty specification. In order to ensure optimal performance, MBR processes are monitored by key performance indicators. If not properly maintained, there is the possibility that the equipment could malfunction and result in premature failure or damage to the membranes. This kind of malfunction could potentially void existing warranties or cause a violation under the waste discharge requirements from the State of California, who oversees the regulation of operations and maintenance of the RWQCP. A serious violation would result in penalties from regulatory agencies.

Zenon Environmental Corporation provides a knowledge and management solution that captures and transforms the RWQCP MBR data. This data can then be translated into meaningful and actionable information to maximize performance, avoid operational interruption, optimize process, and reduce the cost of operations. A professional SUEZ expert is specifically assigned to the RWQCP and staff have access to 24/7 technical support, which has already proven its worth. Zenon Environmental Corporation is the original authorized service provider for the SUEZ Water ZeeWeed Membrane Bioreactor. Bi-Weekly KPI reports and 24/7 emergency telephone technical support provided by Zenon, ensures membranes are maintained to a set standard and remain available for effective and reliable use.

Section 702(c) of Purchasing Resolution 23256 allows for the exception to competitive procurement "When the Procurement can only be obtained from a sole source or timely from a single source and the Manager is satisfied that the best price, terms and conditions for the Procurement thereof have been negotiated."

The Purchasing Manager concurs this purchase is in compliance with Purchasing Resolution 23256, Section 702(c).

FISCAL IMPACT:

The total fiscal impact of the action is \$90,280. Sufficient funds for fiscal year 2020/21 are available in General Fund Public Works Contract Compliance account 4125200-425900. Appropriations for future fiscal years will be included in the Department's budget submissions for those fiscal years to be presented to the City Council for approval.

Prepared by: Kris Martinez, Public Works Director
Certified as to

availability of funds: Edward Enriquez, Chief Financial Officer/Treasurer

Approved by: Rafael Guzman, Assistant City Manager

Approved as to form: Gary G. Geuss, City Attorney

Attachment: Service Agreement