



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL **DATE: APRIL 17, 2018**

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

SUBJECT: RIVERSIDE WATER QUALITY CONTROL PLANT – INCREASE CHANGE ORDER AUTHORITY WITH SOLENIS LLC TO PROVIDE EMULSION POLYMER IN THE AMOUNT OF \$500,000 FOR A REVISED TOTAL OF \$1,300,000 AND INCREASE CHANGE ORDER AUTHORITY WITH UNIVAR USA INC FOR SODIUM BISULFATE SOLUTION IN THE AMOUNT OF \$150,000 FOR A REVISED TOTAL OF \$505,000 THROUGH JUNE 30, 2018

ISSUES:

Authorize an increase to the change order authority for Purchase Order No. 180014 in the amount of \$500,000 for a revised total of \$1,300,000 with Solenis LLC to provide emulsion polymer and authorize change order authority for Purchase Order No. 181158 with Univar USA Inc. in the amount of \$150,000 for a revised total of \$505,000 to provide sodium bisulfate solution for the treatment of wastewater through June 30, 2018.

RECOMMENDATIONS:

That the City Council:

1. Authorize change order authority for Purchase Order No. 180014 with Solenis LLC, of Willington, Delaware in the amount of \$500,000 to provide emulsion polymer revising the total from \$800,000 to \$1,300,000; and
2. Authorize change order authority for Purchase Order No. 181158 with Univar USA Inc., of Redmond, Washington in the amount of \$150,000 to provide sodium bisulfate solution revising the total from \$355,000 to \$505,000; and
3. Authorize the City Manager, or his designee, to approve the increase in change orders to Solenis LLC Purchase Order No. 180014 and Univar USA Inc. Purchase Order No. 181158 for a total cost not to exceed \$1,300,000 and \$505,000, respectively.

BACKGROUND:

The City's Regional Water Quality Control Plant (RWQCP) provides treatment of domestic and industrial wastewater generated within the City and the Rubidoux, Jurupa, and Edgemont Community Service Districts and community of Highgrove. This entails the operation of primary, secondary and tertiary treatment processes to produce high quality effluent that complies with all

State and Federal requirements prior to discharge to the Santa Ana River or reused as recycled water.

The chemicals used at the WQCP were procured under Resolution No. 22576 Section 602, Utilities Exceptions, which allows an exception to Open Market procurement as long as it is in the best interest of the City. For the past five years Solenis LLC and Univar USA Inc. have provided chemicals to the WQCP under the this resolution. On December 20, 2017 Resolution No. 23256 took effect and Section 404 addresses the Utilities exceptions. The request for change order authority is allowed under Section 1104 of the current resolution.

DISCUSSION:

Solenis LLC., provides Polymer, a coagulant used to remove solids from the wastewater and to dewater the solids for disposal in compliance with Federal and State regulations. Solids that are removed are processed through mechanical dewatering equipment to produce biosolids of approximately 15 to 20 percent solids. Under contract, the treated biosolids are hauled to Arizona and are beneficially reused as a soil amendment for non-food crops.

Univar USA Inc., provides Sodium Bisulfite used to neutralize chlorine from the WQCP final effluent disinfected water before discharging to the Santa Ana River per the facility National Pollutant Discharge Elimination System (NPDES) permit effluent limitations.

Several factors have contributed to the deficit of the projected budgeted amount for polymer. The RWQCP plant has been in a transition state due to new construction sequencing, shutdowns, and performance testing of new processes and equipment now online following the completion of the Plant Expansion and Rehabilitation Project. For example, as the first two trains of the Membrane Bioreactor (MBR) system were brought online, operational changes in the overall system led to the production of more waste activated sludge. This resulted in an increase in polymer usage. Also, Hurricane Harvey impacted polymer deliveries from September 2017 to December 2017 due to issues with rail and trucking issues on the East Coast. Staff was forced to rely on available local polymer deliveries made in totes because bulk polymer was not available. The polymer delivered in totes was not the same quality as in bulk, and led to an increase in usage.

Factors that resulted in the deficit of the sodium bisulfite budgeted amount were primarily due to challenges with the MBR trains when they were initially being placed online. While the MBR system was being placed online, a higher chlorine residual in the contact basin effluent was detected. Due to the higher chlorine residual, staff resorted to injecting additional sodium bisulfite in order to neutralize the treated wastewater. This was necessary in order to comply with the Regional Water Quality Control Board Effluent Limitation of 0.10 mg/L before discharging to the Santa Ana River and to avoid mandatory penalties for noncompliance.

Due to these operational impacts during this transitional period, chemicals have been under-budgeted during the current two-year budget cycle (FY 2016/17 and FY 2017/18). In order to have sufficient funds available during this fiscal year, staff is formally requesting City Council to approve the necessary requested change orders which is necessary to continue to comply with Federal, State, Regional and Local regulatory requirements.

The Purchasing Manager agrees that the proposed recommendation is in accordance with the City's Purchasing Resolution.

FISCAL IMPACT:

The total fiscal impact of the action is \$650,000. Funds are available in the Chemical Supplies account number 4125200-426600.

Prepared by: Kris Martinez, Public Works Director
Certified as to
availability of funds: Adam Raymond, Chief Financial Officer/City Treasurer
Approved by: Al Zelinka, FAICP, Assistant City Manager
Approved as to form: Gary G. Geuss, City Attorney