

Department of Public Works

Bureau of Engineering
Bureau of Sanitation
Joint Report No. 1

December 4, 2024
CD No. 4

ISSUE CHANGE ORDER TO PPC CONSTRUCTION, INC. AND SOLE SOURCE PROCUREMENT OF PROCESS EQUIPMENT AND SERVICES AUTHORITY INCREASE FOR THE CAPITAL IMPROVEMENT PROJECT 4200 LOS ANGELES GLENDALE WATER RECLAMATION PLANT SODIUM HYPOCHLORITE FACILITY RELOCATION (WORK ORDER NO. SZL11212, CONTRACT NO. C-144391)

RECOMMENDING THE BOARD OF PUBLIC WORKS (BOARD):

1. AUTHORIZE \$200,000 in additional contingency and APPROVE a revised construction budget of \$6,225,252 for Contract No. C-144391.
2. AUTHORIZE the City Engineer to issue Change Order No. 2 to sole source procure process equipment and services for an amount not to exceed \$200,000.
3. AUTHORIZE the Director and General Manager of the LA Sanitation & Environment (LASAN) to request the City Engineer to increase the not to exceed amount for the sole source procurement of the following equipment and services by \$200,000 for a total authority of a not to exceed amount of \$340,000:
 - One Rockwell Automation's Allen Bradley Local Control Panel (LCP)/Programmable Logic Controller (PLC) hardware, services, engineering, software development, graphics, installation, loop checks, integration with Distributed Control System (DCS), functional testing, start-up and commissioning, and operation and maintenance manuals revisions.

TRANSMITTALS:

1. Copy of the Bureau of Engineering (BOE) and Bureau of Contract Administration Joint Report No. 1, adopted September 6, 2023, awarding the contract for the Capital Improvement Project (CIP) 4200 Los Angeles Glendale Water Reclamation Plant (LAGWRP) Sodium Hypochlorite Facility Relocation Project (Project).
2. Copy of the BOE Report No. 1, adopted January 25, 2023, providing the authority to increase the budget contingency and issue change orders to the contractor for the Project and authorizing Sole Source Procurement of Process Equipment and Service Authority Increase for Project.
3. Copy of the BOE and LASAN Joint Report No. 2, adopted June 28, 2019, authorizing the City Engineer to sole source procure process equipment and services.
4. Copy of Preliminary Change Order No. 2.

DISCUSSION

Background

On September 6, 2023, the Board awarded a contract to PPC Construction, Inc. in the amount \$5,738,335 with a contingency amount of \$286,917 for a total approved construction budget of \$6,025,252 to construct the Project (Transmittal No. 1). The Project will construct a new Sodium Hypochlorite (NaOCl) storage and dosing facility and decommission the existing NaOCl facility which has reached the end of its “useful life.” The Project scope of work includes the following:

- a) Site preparation.
- b) Demolish the unused alum and bisulfite facility.
- c) Install two 12,000-gallon storage tanks with attachments.
- d) Install three skid-mounted pump dosing systems and new piping.
- e) Structural, civil, and electrical improvements.
- f) Instrumentation and control upgrades.
- g) Integrate with the Distributed Control System (DCS).

The following process equipment and services were approved to be sole sourced for this project in multiple approvals by the Board on January 25, 2023 (Transmittal No. 2) and June 28, 2019 (Transmittal No. 3):

- One Rockwell Automation's Allen Bradley LCP/PLC.
- Two Evoqua's Wallace and Tiernan Chlorine Analyzers.
- Two Evoqua's Water Champ FX Chemical Induction Mixers.
- Two Krone Magnetic Flow Meters.
- Four ProMinent Chemical Metering Pumps.

Construction Progress

Construction is approximately 45 percent complete. A significant portion of the construction work is now ongoing. The construction site is shown in the figure below.



Figure: Site Preparation

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Sole Source Justification

The original sole source board reports (Transmittal Nos. 2 and 3) include both justification and costs for the procurement of Rockwell Automation's Allen Bradley LCP/PLC.

Since the adoption of the original sole source board report, material and labor costs have increased, resulting in an increase in the process equipment and service costs from manufacturers. The cost increases have been reviewed and are consistent with cost escalations reported in the industry and in procurement purchase orders by LASAN. To address this, the not to exceed amount for sole-sourced equipment and services is requested to be increased. This increase would impact the total construction by \$200,000. Details are presented in Table 1.

Table 1: Summary of Soles Source Process Equipment and Services Changes

No.	Process Equipment and Services	Approved	Actual Cost	Delta
1	Rockwell Automation's Allen Bradley LCP/PLC hardware, services, engineering, software development, graphics, installation, loop checks, integration with DCS, functional testing, start-up and commissioning, and operation and maintenance manuals revisions	\$140,000	\$340,000	\$200,000

City Attorney' Office Review

The proposed equipment sole sourcing has been reviewed and approved by the City Attorney's Office.

Change Order No. 2

Since the adoption of the original sole source board reports, material and labor cost increases resulted in increases in the equipment and services costs from the sole-sourced manufacturer. Allen Bradley services, engineering, software, and graphics has increased by \$200,000 due to increases in labor costs. To address this, the sole source not to exceed amount is requested to be increased from \$140,000 to \$340,000 and Change Order No. 2 (Transmittal No. 4) would be issued with a not to exceed amount of \$200,000.

Status of Change Orders

A summary of the current change order status is presented below.

Summary of Change Orders as of June 2024			
Category	Total No. of Change Orders	Dollar (\$) Amount	Percent (%) Contract Amount
Fully Executed Change Orders	1	(\$ 10,000)	(0.17%)
Preliminary Change Orders	0	\$ 0	0.00%
Preliminary Change Orders per this Board Report	1	\$200,000	3.48%
Total	2	\$190,000	3.31%

Requested Contingency and Budget Authorization for Entire Contract				
Original Contract	Original Contingency	Original Authorized Budget	Requested Additional Contingency	New Authorized Budget
\$5,738,335	\$286,917	\$6,025,252	\$200,000	\$6,225,252

Program Review Committee (PRC)

The PRC approved a revised authorized construction budget of \$6,225,252 at its meeting on March 6, 2024.

STATUS OF FUNDING

There is no impact to the General Fund. The total additional funding for sole source procurement is not to exceed \$200,000. Additional funding in the amount of \$200,000 is available in Fund No. 761, Sewer Capital Fund, Department No. 50, Appropriation Unit No. 50AE2A, LAG Sodium Hypochlorite Facility Relocation.

Funds and appropriations for future fiscal years are not yet identified and existing appropriations may change based on available cash balances. Therefore, funds and appropriations will be determined by the Director and General Manager of LASAN or the designee.

Funding as of the date of this board report has been verified and approved by the Director of the Office of Accounting subject to terms and conditions and cash availability described above.

The City's liability under this contract shall only be to the extent of the present City appropriation to fund the contract. However, if the City shall appropriate funds for any succeeding years, the City's liability shall be extended to the extent of such appropriation, subject to the terms and conditions of the contract.

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(EBW GSM AM SB TJ RL)

Report reviewed by:

BOE (ADM) and
BOS (FMD and WRID)


Report prepared by:

Environmental Engineering Division

Ethan Wong, PE, CCM, ENV SP
Division Engineer
Phone No. (310) 648-6120


Sarai Bhaga (Nov 1, 2024 09:47 PDT)


Sarai Bhaga
Chief Financial Officer
Bureau of Sanitation
Date:

 11/13/2024
Miguel De La Pena, SHRM-SCP
Director, Office of Accounting
Fund Ref. 761/50/50AE2A \$200,000

Respectfully submitted.


ENGINEERING
Electronically Signed by Ted Allen
Date: 2024 1204 11:00

Ted Allen, PE
City Engineer
Bureau of Engineering


Barbara Romero
Director and General Manager
Bureau of Sanitation

EW/NS/SDH/06-2024-0085 EED.pnc

Questions regarding this report
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Department of Public Works

SEP 06 2023

Bureau of Engineering
Bureau of Contract Administration
Joint Report No. 1
Executive Officer
Board of Public WorksSeptember 6, 2023
CD No. 13**CONTRACT AWARD TO PPC CONSTRUCTION, INC. FOR THE LOS ANGELES GLENDALE WATER RECLAMATION PLANT SODIUM HYPOCHLORITE FACILITY RELOCATION CAPITAL IMPROVEMENT PROJECT 4200 (WORK ORDER NO. SZL11212)****RECOMMENDING THE BOARD OF PUBLIC WORKS (BOARD):**

1. DECLARE PPC Construction, Inc. (PPC), first low bidder, to be the lowest responsive, responsible bidder, and AWARD PPC a contract for the Los Angeles Glendale Water Reclamation Plant (LAGWRP) Sodium Hypochlorite Facility Relocation Capital Improvement Project 4200 (Project) for \$5,738,335.00.
2. AUTHORIZE the President or two members of the Board to execute the contract after approval as-to-form has been obtained from the City Attorney.

TRANSMITTAL

Summary of bids received on May 24, 2023.

DISCUSSION***Background***

The Project involves constructing a new Sodium Hypochlorite (NaOCl) Storage and Dosing Facility, while decommissioning of existing one after its lifespan. Tasks include site preparation, demolishing the unused alum and bisulfite facility, and installing two 12,000-gallon storage tanks with attachments, along with three new skid-mounted pump dosing systems, and new piping. Structural, civil, and electrical improvements will be made, as well as implementing instrumentation work and integrating it with the distributed control system as shown in Figure No. 1. The contract duration is 450 calendar days.

The Project has been reviewed for environmental considerations. It was determined to be categorically exempt pursuant to the provisions of the California Environmental Quality Act (CEQA) of 1970 under Article III of the City of Los Angeles' (City)'s CEQA Guidelines on June 3, 2016.

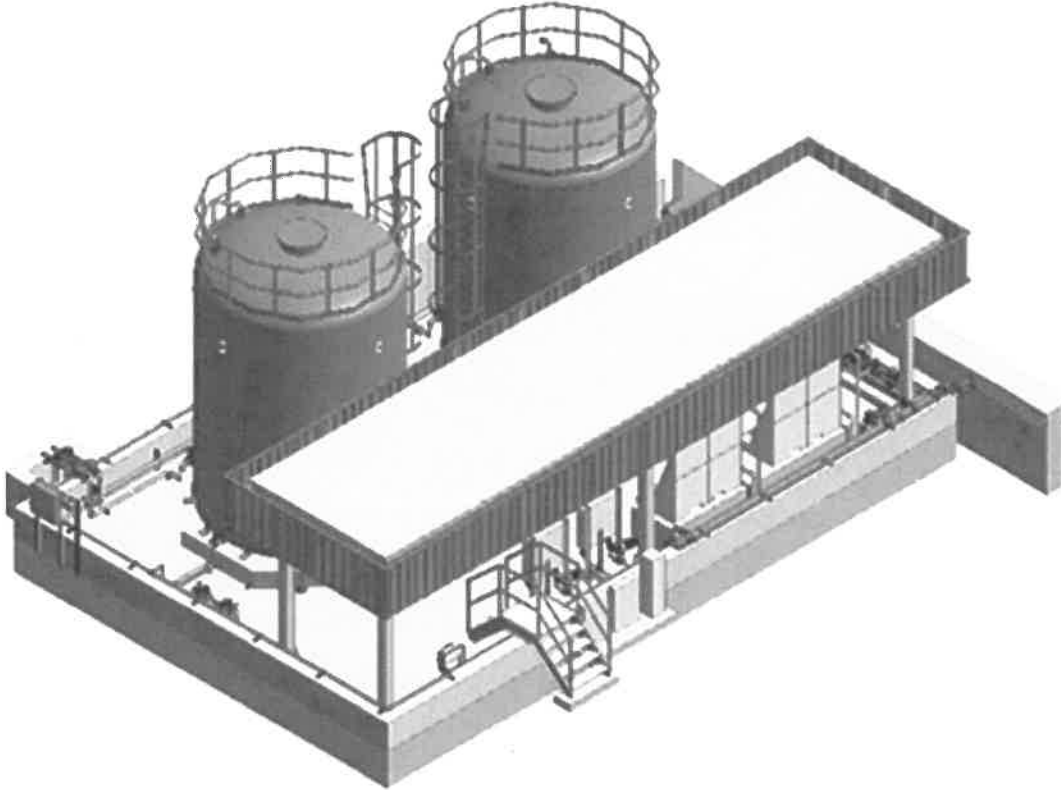


Figure No. 1: LAGWRP Sodium Hypochlorite (NaOCl) Storage and Dosing Facility 3-D Model

Bid Review

The lowest of the two bids received (Transmittal) compared with the City Engineer's estimate of \$8,144,000.00 is:

Business Codes:

MBE = Minority Business Enterprise
WBE = Women Business Enterprise
SBE = Small Business Enterprise
LBE = Local Business Enterprise

EBE = Emerging Business Enterprise
DVBE = Disabled Veteran Business Enterprise
OBE = Other Business Enterprise
LGBTBE = Lesbian, Gay, Bisexual, Transgender Business Enterprise

Bid No.	Contractor Name	Bid Amount	% High/Low	% Pledged			
				MBE	WBE	SBE	LGBTBE
Low Bid	PPC (SBE; LBE)	\$5,738,335.00	29.54% Low	0.37%	0.00%	7.11%	0.00%
				EBE	DVBE	OBE	
				0.92%	0.00%	13.12%	

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Based on the range of bids submitted for this Project, staff believes this bid is reasonable. The contract may be awarded to PPC, first low bidder, subject to verification of all other bidding requirements.

Local Business Preference (LBP) Program

Los Angeles Administrative Code (L.A.A.C.), Division 10, Chapter 1, Article 4, Section 10.25 adopted the LBP Program, which was designed to increase local employment and expenditures in the local private sector. Businesses that qualify as a LBE may be granted an 8.00 percent reduction of their bid amount solely for bid evaluation purposes. If the LBE is also a Local Small Business (LSB) and/or a Local Transitional Employer (LTE), they may be granted an additional 2.00 percent reduction for each of those certifications, up to a total of 12.00 percent. Businesses that qualify as a LBE, but neither as a LSB and/or a LTE, may be granted a 1.00 percent reduction, up to a maximum of 2.00 percent for each of those certifications, for every 10.00 percent of their bid that is to be performed by a LSB and/or a LTE subcontractor. Additionally, all non-LBE businesses may be granted a 1.00 percent reduction, up to a maximum of 5.00 percent, of their bid amount solely for bid evaluation purposes, for every 10.00 percent of their bid that is to be performed by a LBE, a LSB, and/or a LTE subcontractor.

For this project, the Bureau of Contract Administration (BCA) verified that the first low bidder, PPC, is a certified LBE.

Business Inclusion Program (BIP)

On January 12, 2011, the Mayor issued Executive Directive No. 14 which created the BIP. This program provides MBE, WBE, SBE, EBE, DVBE, and OBE firms an equal opportunity to compete for, and participate in, City contracts. Additionally, the BIP requires bidders to perform and document BIP Outreach via the internet utilizing the Los Angeles Regional Alliance Marketplace for Procurement service.

This project was advertised with anticipated participation levels of 4.00 percent MBE, 2.00 percent WBE, 25.00 percent SBE, 8.00 percent EBE, and 3.00 percent DVBE, and with mandatory BIP documentation requirements. Currently, the LGBTBE certification is not required as part of the BIP Outreach but is tracked for statistical purposes. The Office of Contract Compliance, based on a review of the documents submitted by PPC, reported that the contractor pledged participation levels of 0.37 percent MBE, 0.00 percent WBE, 7.11 percent SBE, 0.92 percent EBE, 0.00 percent DVBE, 0.00 percent LGBTBE, and 13.12 percent OBE, and complied with the BIP outreach requirements of the bid. The Mandatory Subcontracting Minimum requirement for this project is 25.00 percent and the contractor has complied by pledging a subcontractor participation level of 25.26 percent.

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This percentage was calculated after subtracting the fixed cost items of \$1,145,000.00 from the total bid amount.

PPC pledged the following subcontractor utilization:

Gender/Ethnicity Codes:

AA = African American
APA = Asian Pacific American
NA = Native American
M = Male

HA = Hispanic American
SAA = Subcontinent Asian American
C = Caucasian
F = Female

Subcontractors	MBE/WBE/ SBE/EBE/ DVBE/OBE/ LGBTBE	Gender/ Ethnicity	% of Bid	Dollar Amount
316 Engineering & Construction, Inc.	SBE		6.19%	\$355,000.00
Barney's Hole Digging Service, Inc.	SBE, EBE		0.92%	\$ 52,865.00
Trans Cal Services ¹	MBE	M/AA	0.37%	\$ 21,000.00
Leed Electric, Inc. ²	OBE		9.53%	\$547,000.00
Next Century Rebar, Inc.	OBE		1.30%	\$ 74,550.00
Performance Abatement Services, Inc.	OBE		0.11%	\$ 6,300.00
Techno Coatings, Inc.	OBE		2.17%	\$124,742.00

Note: Subcontractors may be certified in multiple certification categories; therefore, per the requirements of Executive Directive No. 14, the dollar amounts were credited toward multiple pledged participation categories.

¹Trans Cal Services was bid-listed to perform Jobs Coordinator work totaling \$21,000.00. However, because this firm is providing services that do not provide a Commercially Useful Function, their amount was not credited towards the subcontractor participation percentages above.

²Certified LBE

Compliance with the City's Non-Discrimination Policies

PPC shall comply with the Affirmative Action, Non-Discrimination, and Equal Employment Practices Provisions, Equal Benefits Ordinance, Contractor's Use of Criminal History for Consideration of Employment Application Ordinance, Living Wage Ordinance, Worker Retention Ordinance, First Source Hiring Ordinance, Slavery Disclosure Ordinance, and Disclosure of Border Wall Contracting Ordinance requirements of the bid.

Previous Work Record

PPC has worked on several contracts issued by the Board. No significant or unresolved problems in inspection, contract compliance, or bidder responsibility have been experienced by the BCA.

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The following table summarizes the MBE/WBE/SBE/EBE/DVBE/OBE participation levels pledged by PPC, in the past five years under the BIP:

MBE/WBE/SBE/EBE/DVBE/OBE Pledged Utilization Table					
No. of Contracts	6	Total \$ Amount of Contracts		\$14,601,030.00	
Pledged MBE \$ Amount	Pledged WBE \$ Amount	Pledged SBE \$ Amount	Pledged EBE \$ Amount	Pledged DVBE \$ Amount	Pledged OBE \$ Amount
\$0.00	\$33,620.00	1,439,795.00	\$608,200.00	0.00	\$831,856.00
Total MBE %	Total WBE %	Total SBE %	Total EBE %	Total DVBE %	Total OBE %
0.00%	0.23%	9.86%	4.17%	0.00%	5.70%

Contractor Performance Evaluation

In accordance with Article 13, Chapter 1, Division 10, of the L.A.A.C., the Project Manager and the City Inspector for this construction contract shall submit Contractor Performance Evaluation Reports to the BCA (Department of Public Works) upon completion of this contract.

Peak Hour Construction and Right-of-Way Obstruction Regulations

All contractors must comply with the requirements specified in the Los Angeles Municipal Code, Section 62.61, related to peak hour traffic restrictions, unless an exemption from the Peak Traffic Hours Prohibition is approved.

Contractor Responsibility Ordinance

All contractors participating in this program are subject to compliance with the requirements specified in the City Contractor Responsibility Ordinance No. 173677 (Article 14, Chapter 1, Division 10, L.A.A.C.). Failure to comply with all the requirements specified in the ordinance may render this bidder's contract subject to termination pursuant to the conditions expressed therein.

Project Labor Agreement (PLA)

The project incorporates a PLA. The PLA will facilitate an orderly settlement of labor disputes and grievances without strikes, work stoppages, or lockouts to assure the timely and economical completion of the project. The PLA will also promote employment opportunities for local residents and will provide apprenticeship training for the duration of the construction. The contractor will be bound on all the provisions of the PLA.

Bid Bond Extension

PPC was requested to extend their Bid Bond which expired on August 22, 2023. PPC has agreed to extend their Bid Bond until September 22, 2023.

Conclusion

In view of the above findings, staff recommends that the Board declare PPC, first low bidder, to be the lowest responsive, responsible bidder, and award PPC the contract for this project.

Program Review Committee (PRC) Approval

The PRC approved a total budget of \$8,551,000.00, including contingency, for this project on September 19, 2022.

STATUS OF FUNDING

There is no impact to the General Fund. The total funding for this project is not-to-exceed \$6,025,252.00. Funding for Fiscal Year 2023-24, in the amount of \$1,883,725.00, is available in the Wastewater System Commercial Paper A Construction Fund No. 70W, Appropriation Unit No. 50YE2A. The remaining funding will be budgeted within the Sewer Construction and Maintenance Fund.

Fund No.	Appropriation Unit No.	Budget Fiscal Year	Contract	Contingencies	Total
70W	50YE2A	FY 2023-24	\$1,794,024.00	\$ 89,701.00	\$1,883,725.00
TBD	CWCIP* Budget SZL11212	Future	\$3,944,311.00	\$197,216.00	\$4,141,527.00
Total			\$5,738,335.00	\$286,917.00	\$6,025,252.00

*Clean Water Capital Improvement Program

Funds and appropriations for future fiscal years are not yet identified and existing appropriations may change based on available cash balances. Therefore, funds and appropriations will be determined by the Director and General Manager of LA Sanitation and Environment or the designee.

Funding as of the date of this board report has been verified and approved by the Director of the Office of Accounting subject to terms and conditions and cash availability described above.

The City's liability under this contract shall only be to the extent of the present City appropriation to fund the contract. However, if the City shall appropriate funds for any succeeding years, the City's liability shall be extended to the extent of such appropriation, subject to the terms and conditions of the contract.

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(RS EBW RMK AM)

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BOE (ADM and EED) and BOS

Report prepared by:

Project Award and Control Division

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Compliance review performed
and approved by:

Respectfully submitted,



Ted Allen, PE
City Engineer
Bureau of Engineering



John L. Reamer, Jr.
Inspector of Public Works
Bureau of Contract Administration


Lynda McGlinchey (Aug 30, 2023 10:54 PDT)

Lynda McGlinchey, Program Manager II
Office of Contract Compliance
Bureau of Contract Administration

Statement as to funds approved by:



Miguel De La Peña, Director
Office of Accounting
Fund Ref. 70W/50YE2A/\$1,883,725.00
Date: 8/28/2023


RS/AC/NS/08-2023-0118_PAC.gva

Questions regarding this
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Department of Public Works
Bureau of Engineering
Report No. 1

JAN 25 2023

January 25, 2023
CD No. 4


Executive Officer
Board of Public Works

SOLE SOURCE PROCUREMENT OF PROCESS EQUIPMENT AND SERVICES-AUTHORITY TO INCREASE THE NOT-TO- EXCEED AMOUNT FOR THE CAPITAL IMPROVEMENT PROJECT 4200 LOS ANGELES GLENDALE WATER RECLAMATION PLANT SODIUM HYPOCHLORITE FACILITY RELOCATION (WORK ORDER NO. SZL11212)

RECOMMENDING THE BOARD OF PUBLIC WORKS :

1. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of process equipment and services by Rockwell Automation Allen Bradley Local Control Panel (LCP)/Programmable Logic Controller (PLC) hardware, and services, engineering, software development, graphics, installation, loop checks, integration with Distributed Control System (DCS), functional testing, start-up and commissioning, operation and maintenance manuals revisions, by \$50,000 for a total authority of \$140,000 for the Capital Improvement Project (CIP) 4200 Los Angeles Glendale Water Reclamation Plant (LAGWRP) Sodium Hypochlorite Facility Relocation.
2. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of four ProMinent Chemical Metering Pumps by \$60,000 for a total authority of \$160,000 the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.
3. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of two Evoqua Wallace and Tiernan Chlorine Analyzers magnetic flow meters by \$40,000 for a total authority of \$90,000 for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.
4. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of two Evoqua Water Champ FX Chemical Induction Mixers by \$40,000 for a total authority of \$90,000 for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.
5. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of two Krohne magnetic flow meters by \$1,000 for a total authority of \$30,000 for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.

TRANSMITTAL

Copy of the Bureau of Engineering and Bureau of Sanitation Joint Report No. 2, adopted on June 28, 2019, authorizing the City Engineer to sole source procurement of equipment for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.

DISCUSSION

Background

The LAGWRP was constructed in 1972 and has been operating since 1976. The LAGWRP is the first water reclamation plant in the City of Los Angeles (City). The LA Sanitation and

Environment (LASAN) and the City of Glendale (Glendale), which is located to the east of the LAGWRP, co-own the LAGWRP, where each city pays 50 percent of the costs and receives an equal share of the recycled water produced. The LAGWRP is a regionally strategic facility within both the City and Glendale's overall wastewater system in addition to being a significant recycled water producer. By processing flows in the eastern San Fernando Valley, the LAGWRP is able to provide critical hydraulic relief to the City's major sewers downstream. The LASAN is the sole operator and maintains the LAGWRP.

The LAGWRP is designed and permitted to treat average dry weather flow of 20 million gallons per day. Treatment consists of preliminary and primary treatment processes, biological nitrogen removal activated sludge process, filtration treatment, disinfection (chlorination) and de-chlorination for product water discharged to the Los Angeles River. The plant's product water is pumped to the "Title 22" recycled water distribution system for non-potable reuse customers.

The LASAN is requesting to implement several projects to improve processes and day to day operations and maintenance functions within the LAGWRP. These projects are included in the CIP 4185 LAGWRP Preliminary Treatment Improvements and the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation. Implementation of the two projects will be in parallel to minimize construction time and costs, to maximize efficiency.

Sole Source Justification

CIP 4200 is in the Bid and Award phase. The original sole source board report (Transmittal) includes both justification and costs for the procurement of Rockwell Automation's Allen Bradley LCP/PLC, two EvoquaWallace and Tiernan Chlorine Analyzers, two Evoqua Water Champ ® FX Chemical Induction Mixers, and two Krohne Magnetic Flow Meters (Transmittal).

Since the adoption of the original sole source board reports, COVID 19 and global conflicts have escalated commodities, industrial materials, and labor costs resulting in increase in the equipment and services cost from Rockwell Automation Allen Bradley, Evoqua and Krohne. To address this cost increase, the not-to-exceed amount for sole-sourced equipment needs to be increased. This increase will not impact the total construction budget as the project construction contingency will cover the cost increase.

City Attorney Review

The City Attorney's Office has reviewed this matter and concurs that it is reasonable and justifiable to award this contract on a sole source basis.

Program Review Committee (PRC) or Applicable Oversight Committee

The PRC approved a construction budget of \$8,551,000 for CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation on September 14, 2022 including \$520,000 for sole source procurement of the process equipment and services listed as follows:

- a) One Rockwell Automation's Allen Bradley LCP/Programmable Logic Controller (LCP/PLC) for an amount not-to-exceed \$140,000.
- b) Four ProMinent Chemical Metering Pumps for an amount not-to-exceed \$160,000.

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- c) Two EvoquaWallace and Tiernan Chlorine Analyzers for an amount not-to-exceed \$90,000.
- d) Two EvoquaWater Champ ® FX Chemical Induction Mixers for an amount not-to-exceed \$90,000.
- e) Two Krohne Magnetic Flow Meters for an amount not-to-exceed \$30,000.

STATUS OF FUNDING

No funding is required at this time. The project is funded from the Sewer Construction and Maintenance Fund. Funding information was provided in the awarding board report.

(EBW RMK AM)

Report reviewed by:

BOE (ADM) and BOS (FMD and WRD)

Report prepared by:

Environmental Engineering Division

Ethan B. Wong, PE, ENV SP
Division Engineer
Phone No. (310) 648 6120

Respectfully submitted,



Ted Allen, PE
City Engineer

EBW/NS/SDH/12-2022-0173_EED.gva

Questions regarding this
report may be referred to:
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Department of Public Works

Bureau of Engineering
Bureau of Sanitation
Joint Report No. 2

June 28, 2019
CD No. 4

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles California

JUN 28 2019


Executive Officer
Board of Public Works

LOS ANGELES GLENDALE WATER RECLAMATION PLANT (LAGWRP) PRELIMINARY TREATMENT IMPROVEMENTS [CAPITAL IMPROVEMENT PROJECT (CIP) 4185, WORK ORDER NO. SZL11231] AND LAGWRP SODIUM HYPOCHLORITE FACILITY RELOCATION (CIP 4200, WORK ORDER NO. SZL11212) PROCUREMENT OF PROCESS EQUIPMENT - EQUIPMENT SOLE SOURCING

RECOMMENDATIONS

1. Authorize the City Engineer to sole source the selection of the following equipment for an amount not-to-exceed \$1,135,000, for the LAGWRP Preliminary Treatment Improvements Project (CIP 4185):
 - Three Worthington influent pumps by the FlowServe.
 - Two WEMCO® Torque-Flow® grit pumps by the Weir Group.
 - Nine plug valves by Millikan.
 - Fifteen Rotork actuators.
 - Two Krohne magnetic flow meters.
2. Authorize the City Engineer to sole source the selection of following equipment for an amount not-to-exceed \$335,000, for the LAGWRP Sodium Hypochlorite Facility Relocation Project (CIP 4200):
 - One Rockwell Automation's Allen Bradley Local Control Panel/Programmable Logic Controller (LCP/PLC).
 - Two Evoqua's Wallace and Tiernan Chlorine Analyzers.
 - Two Evoqua's Water Champ® FX Chemical Induction Mixers.
 - Two Krohne Magnetic Flow Meter.
 - Four ProMinent Chemical Metering Pumps.
3. Authorize the City Engineer to negotiate a price agreement with FlowServe, Evoqua, Millikan, Krohne, the Weir Group, ProMinent, and Rotork for the above referenced pumps, flow meters, actuators, valves, and instruments, which will be procured and installed by the general contractor awarded the construction project.

DISCUSSION

Background

The LAGWRP was constructed in 1972 and has been operating since 1976. The LAGWRP is the first water reclamation plant in the City of Los Angeles (City). The Bureau of Sanitation (LASAN) and the City of Glendale (Glendale), which is located to the east of the LAGWRP, co-own the LAGWRP, where each city pays 50 percent of the costs and receives an equal share of the recycled water produced. The LAGWRP is a regionally strategic facility within both the City and Glendale's overall wastewater system in addition to being a significant recycled water producer. By processing flows in the eastern San Fernando Valley, the LAGWRP is able to provide critical hydraulic relief to the City's major sewers downstream. LASAN is the sole operator and maintains the LAGWRP.

The LAGWRP is designed and permitted to treat average dry weather flow of 20 million gallons per day. Treatment consist of preliminary and primary treatment processes, biological nitrogen removal activated sludge process, filtration treatment, disinfection (chloramination), and dechlorination for product water discharged to the Los Angeles River. The plant's product water is pumped to the "Title 22" recycled water distribution system for non-potable reuse customers.

The LASAN is requesting to implement several projects to improve the process, day-to-day operation, and maintenance functions within the LAGWRP. These projects are included in the CIP 4185 (LAGWRP Preliminary Treatment Improvements) and CIP 4200 (LAGWRP Sodium Hypochlorite Facility Relocation). Implementation of the two projects will be in parallel to minimize construction time and costs, to maximize efficiency.

Sole Source Justification

The following is a summary of the proposed sole source items for these projects. The sole sourced equipment will be included in the specifications/bid documents with a budget not-to-exceed \$1,470,000, including contingency.

The following is a justification to sole source the particular equipment:

- Worthington influent pumps by the FlowServe - Existing large capacity solids handling influent pumps are Worthington MNV configuration, vertical with base elbow, motor on separate floor, installed in 1972 and operating efficaciously for the last 47 years. Replacement in-kind is the most cost effective solution due to the minimal pump station modifications required.
- WEMCO® Torque-Flow® grit pumps by the Weir Group - Existing grit pump is WEMCO® Torque-Flow® grit pumps by the Weir Group installed in 1980 and operating efficaciously for the last 39 years. Replacement in-kind is the most cost effective solution due to a minimal pump station modifications required.

Department of Public Works
Bureau of Engineering
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- Millikan Plug Valves - The LASAN has standardized on Millikan plug valves and to date, approximately 200 have been installed at the Water Reclamation Division (WRD) Plants which comprise of the LAGWRP and the Donald C. Tillman Water Reclamation Plant. The benefits of these valves include reliability, safety, and dependable performance.
- Rotork Actuators - The LASAN has standardized on Rotork actuators and to date, approximately 450 have been installed at the WRD Plants. The benefits of these actuators include a double-sealed enclosure, non-intrusive infrared commissioning, data-logging, and predictive maintenance capabilities.
- Krohne Magnetic Flow Meters - The LASAN has standardized on Krohne and to date, approximately 125 have been installed at the WRD Plants. Replacement in-kind of the existing 47-year-old Krohne meters is the most cost effective solution due to no installation modifications required.
- Rockwell Automation's Allen Bradley LCP/PLC - The LASAN has standardized on Rockwell Automation's LCP/PLC, and to date approximately 50 have been installed at the WRD Plants. To facilitate integration with the existing systems, all new PLCs and VFD's must also be manufactured by Rockwell Automation. Compatibility issues will arise and the warranty will be voided if the upgrades are provided by a different manufacturer.
- Evoqua's Wallace and Tiernan Chlorine Analyzers - The LASAN has standardized use of these on-line chlorine analyzers for compliance monitoring of residual chlorine in recycled water with conditions described in permits, disinfection, and discharge permit respectively. To date, approximately 15 have been installed. The benefits of these analyzers include reliable performance, real-time chlorine analysis to optimize disinfection process and/or to report to regulatory agencies as a part of permit compliance, and predictive maintenance capabilities.
- Evoqua's Water Champ® FX chemical induction mixers - The LASAN has standardized on Evoqua's Water Champ® FX mixers with excellent operating track record. Replacement in-kind is the most cost effective solution due to no installation modifications required and no shutdown required for the replacement.
- ProMinent Chemical Metering Pumps - The LASAN has standardized on ProMinent chemical metering pumps in operation for last 20 years. To date, approximately 10 have been installed. The benefits of these pumps include reliable metering under the harshest operating conditions, extremely durable materials that result in fault-free operation important for permit compliance, and predictive maintenance capabilities.

The sole sourced equipment will be purchased from the vendor lists shown in Table 1:

Table 1: Proposed Sole Sourced Process Equipment						
No.	Description	No. of Units	Vendor	Estimated (\$)	Cost	Justification
CIP 4185 LAGWRP Preliminary Treatment Improvement						1. Equipment
1	Worthington Influent Pump	3	Flow Serve	\$ 780,000		is sole sourced to match existing equipment.
2	WEMCO® Torque-Flow® Grit Pump	2	WEIR Group	\$ 95,000		
3	Actuator	15	Rotork	\$ 118,000		
4	Magnetic Flow Meters (48 inches, 6 inches)	2	Krohne	\$ 70,000		
5	Plug Valves	9	Millikan	\$ 18,000		2. Proven
CIP 4185 Total				\$1,135,000		track record,
CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation						current
1	LCP/PLC Allen Bradley CompactLogix 5380 Controller with the PanelView™ 5000, 15-inch screen	1	Rockwell Automation	\$ 90,000		technology,
2	Wallace and Tiernan Chlorine Analyzer	2	Evoqua	\$ 50,000		reduced
3	Water Champ® FX Chemical Induction Mixer	2	Evoqua	\$ 50,000		operation,
4	Magnetic Flow Meters (1-1/2 inches)	2	Krohne	\$ 29,000		maintenance,
5	ProMinent Chemical Metering Pumps	4	ProMinent	\$ 100,000		spare parts,
CIP 4200 Total				\$ 335,000		and training
Total				\$1,470,000		costs.

Recommendation

Based on the information contained in this report, the BOE and the LASAN recommend that the Board authorize the City Engineer to:

1. Approve the selection of process equipment to be sole sourced for these projects.
2. Negotiate and execute sole sourced agreements with the seven manufacturers listed in Table 1 to provide the required equipment for this project. Agreements will be included as the allowance items for purchase and installation by the General Contractor of CIP 4185 and CIP 4200.

Program Review Committee (PRC)

The PRC approved a construction budget of \$7,240,000 for LAGWRP Preliminary Improvements (CIP 4185) on April 11, 2018.

The PRC approved a construction budget of \$2,332,000 for LAGWRP Sodium Hypochlorite Facility Relocation (CIP 4200) on November 14, 2018.

STATUS OF FUNDING

There is no impact to the General Fund. Funds will be provided within the Sewer Construction and Maintenance Fund. Funding information will be provided in the awarding board report.

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Page 5

(MJS RMK KRR MR AKN TJM)

Report reviewed by:

Respectfully submitted,

BOE (ADM) and
BOS (WRD and FMD)



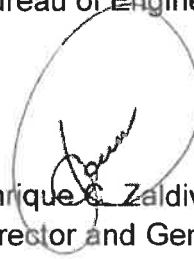
Report prepared by:

Gary Lee Moore, PE, ENV SP
City Engineer

Environmental Engineering Division

Bureau of Engineering

Michael J. Sarullo, PE, ENV SP
Division Engineer
Phone No. (310) 648-6120



Enrique S. Zaldivar, PE
Director and General Manager
Bureau of Sanitation

MJS/SDH/NS/05-2019-0077.EED.mel

Questions regarding this report
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Department of Public Works
Bureau of Engineering
Report No. 1

January 25, 2023
CD No. 4

SOLE SOURCE PROCUREMENT OF PROCESS EQUIPMENT AND SERVICES-AUTHORITY TO INCREASE THE NOT-TO- EXCEED AMOUNT FOR THE CAPITAL IMPROVEMENT PROJECT 4200 LOS ANGELES GLENDALE WATER RECLAMATION PLANT SODIUM HYPOCHLORITE FACILITY RELOCATION (WORK ORDER NO. SZL11212)

RECOMMENDING THE BOARD OF PUBLIC WORKS :

1. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of process equipment and services by Rockwell Automation Allen Bradley Local Control Panel (LCP)/Programmable Logic Controller (PLC) hardware, and services, engineering, software development, graphics, installation, loop checks, integration with Distributed Control System (DCS), functional testing, start-up and commissioning, operation and maintenance manuals revisions, by \$50,000 for a total authority of \$140,000 for the Capital Improvement Project (CIP) 4200 Los Angeles Glendale Water Reclamation Plant (LAGWRP) Sodium Hypochlorite Facility Relocation.
2. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of four ProMinent Chemical Metering Pumps by \$60,000 for a total authority of \$160,000 the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.
3. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of two Evoqua Wallace and Tiernan Chlorine Analyzers magnetic flow meters by \$40,000 for a total authority of \$90,000 for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.
4. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of two Evoqua Water Champ FX Chemical Induction Mixers by \$40,000 for a total authority of \$90,000 for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.
5. AUTHORIZE the City Engineer to increase the not-to-exceed amount for the sole source procurement of two Krohne magnetic flow meters by \$1,000 for a total authority of \$30,000 for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.

TRANSMITTAL

Copy of the Bureau of Engineering and Bureau of Sanitation Joint Report No. 2, adopted on June 28, 2019, authorizing the City Engineer to sole source procurement of equipment for the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation.

DISCUSSION

Background

The LAGWRP was constructed in 1972 and has been operating since 1976. The LAGWRP is the first water reclamation plant in the City of Los Angeles (City). The LA Sanitation and

Environment (LASAN) and the City of Glendale (Glendale), which is located to the east of the LAGWRP, co-own the LAGWRP, where each city pays 50 percent of the costs and receives an equal share of the recycled water produced. The LAGWRP is a regionally strategic facility within both the City and Glendale's overall wastewater system in addition to being a significant recycled water producer. By processing flows in the eastern San Fernando Valley, the LAGWRP is able to provide critical hydraulic relief to the City's major sewers downstream. The LASAN is the sole operator and maintains the LAGWRP.

The LAGWRP is designed and permitted to treat average dry weather flow of 20 million gallons per day. Treatment consists of preliminary and primary treatment processes, biological nitrogen removal activated sludge process, filtration treatment, disinfection (chlorination) and de-chlorination for product water discharged to the Los Angeles River. The plant's product water is pumped to the "Title 22" recycled water distribution system for non-potable reuse customers.

The LASAN is requesting to implement several projects to improve processes and day to day operations and maintenance functions within the LAGWRP. These projects are included in the CIP 4185 LAGWRP Preliminary Treatment Improvements and the CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation. Implementation of the two projects will be in parallel to minimize construction time and costs, to maximize efficiency.

Sole Source Justification

CIP 4200 is in the Bid and Award phase. The original sole source board report (Transmittal) includes both justification and costs for the procurement of Rockwell Automation's Allen Bradley LCP/PLC, two EvoquaWallace and Tiernan Chlorine Analyzers, two Evoqua Water Champ ® FX Chemical Induction Mixers, and two Krohne Magnetic Flow Meters (Transmittal).

Since the adoption of the original sole source board reports, COVID 19 and global conflicts have escalated commodities, industrial materials, and labor costs resulting in increase in the equipment and services cost from Rockwell Automation Allen Bradley, Evoqua and Krohne. To address this cost increase, the not-to-exceed amount for sole-sourced equipment needs to be increased. This increase will not impact the total construction budget as the project construction contingency will cover the cost increase.

City Attorney Review

The City Attorney's Office has reviewed this matter and concurs that it is reasonable and justifiable to award this contract on a sole source basis.

Program Review Committee (PRC) or Applicable Oversight Committee

The PRC approved a construction budget of \$8,551,000 for CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation on September 14, 2022 including \$520,000 for sole source procurement of the process equipment and services listed as follows:

- a) One Rockwell Automation's Allen Bradley LCP/Programmable Logic Controller (LCP/PLC) for an amount not-to-exceed \$140,000.
- b) Four ProMinent Chemical Metering Pumps for an amount not-to-exceed \$160,000.

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- c) Two EvoquaWallace and Tiernan Chlorine Analyzers for an amount not-to-exceed \$90,000.
- d) Two EvoquaWater Champ ® FX Chemical Induction Mixers for an amount not-to-exceed \$90,000.
- e) Two Krohne Magnetic Flow Meters for an amount not-to-exceed \$30,000.

STATUS OF FUNDING

No funding is required at this time. The project is funded from the Sewer Construction and Maintenance Fund. Funding information was provided in the awarding board report.

(EBW RMK AM)

Report reviewed by:

BOE (ADM) and BOS (FMD and WRD)

Report prepared by:

Environmental Engineering Division

Ethan B. Wong, PE, ENV SP
Division Engineer
Phone No. (310) 648 6120

EBW/NS/SDH/12-2022-0173_EED.gva

Questions regarding this
report may be referred to:
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and/or

Slavica D. Hammond, Ph.D, PE, BCCE, ENV SP
Phone No. (310) 648-6204
E-mail: slavica.hammond@lacity.org

Respectfully submitted,


ENGINEERING
Electronically signed by Ted Allen
2023 12:48 PM

Ted Allen, PE
City Engineer

Department of Public Works

Bureau of Engineering
Bureau of Sanitation
Joint Report No. 2

June 28, 2019
CD No. 4

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles California

JUN 28 2019


Executive Officer
Board of Public Works

LOS ANGELES GLENDALE WATER RECLAMATION PLANT (LAGWRP) PRELIMINARY TREATMENT IMPROVEMENTS [CAPITAL IMPROVEMENT PROJECT (CIP) 4185, WORK ORDER NO. SZL11231] AND LAGWRP SODIUM HYPOCHLORITE FACILITY RELOCATION (CIP 4200, WORK ORDER NO. SZL11212) PROCUREMENT OF PROCESS EQUIPMENT - EQUIPMENT SOLE SOURCING

RECOMMENDATIONS

1. Authorize the City Engineer to sole source the selection of the following equipment for an amount not-to-exceed \$1,135,000, for the LAGWRP Preliminary Treatment Improvements Project (CIP 4185):
 - Three Worthington influent pumps by the FlowServe.
 - Two WEMCO® Torque-Flow® grit pumps by the Weir Group.
 - Nine plug valves by Millikan.
 - Fifteen Rotork actuators.
 - Two Krohne magnetic flow meters.
2. Authorize the City Engineer to sole source the selection of following equipment for an amount not-to-exceed \$335,000, for the LAGWRP Sodium Hypochlorite Facility Relocation Project (CIP 4200):
 - One Rockwell Automation's Allen Bradley Local Control Panel/Programmable Logic Controller (LCP/PLC).
 - Two Evoqua's Wallace and Tiernan Chlorine Analyzers.
 - Two Evoqua's Water Champ® FX Chemical Induction Mixers.
 - Two Krohne Magnetic Flow Meter.
 - Four ProMinent Chemical Metering Pumps.
3. Authorize the City Engineer to negotiate a price agreement with FlowServe, Evoqua, Millikan, Krohne, the Weir Group, ProMinent, and Rotork for the above referenced pumps, flow meters, actuators, valves, and instruments, which will be procured and installed by the general contractor awarded the construction project.

TRANSMITTAL NO. 1

DISCUSSION

Background

The LAGWRP was constructed in 1972 and has been operating since 1976. The LAGWRP is the first water reclamation plant in the City of Los Angeles (City). The Bureau of Sanitation (LASAN) and the City of Glendale (Glendale), which is located to the east of the LAGWRP, co-own the LAGWRP, where each city pays 50 percent of the costs and receives an equal share of the recycled water produced. The LAGWRP is a regionally strategic facility within both the City and Glendale's overall wastewater system in addition to being a significant recycled water producer. By processing flows in the eastern San Fernando Valley, the LAGWRP is able to provide critical hydraulic relief to the City's major sewers downstream. LASAN is the sole operator and maintains the LAGWRP.

The LAGWRP is designed and permitted to treat average dry weather flow of 20 million gallons per day. Treatment consist of preliminary and primary treatment processes, biological nitrogen removal activated sludge process, filtration treatment, disinfection (chloramination), and dechlorination for product water discharged to the Los Angeles River. The plant's product water is pumped to the "Title 22" recycled water distribution system for non-potable reuse customers.

The LASAN is requesting to implement several projects to improve the process, day-to-day operation, and maintenance functions within the LAGWRP. These projects are included in the CIP 4185 (LAGWRP Preliminary Treatment Improvements) and CIP 4200 (LAGWRP Sodium Hypochlorite Facility Relocation). Implementation of the two projects will be in parallel to minimize construction time and costs, to maximize efficiency.

Sole Source Justification

The following is a summary of the proposed sole source items for these projects. The sole sourced equipment will be included in the specifications/bid documents with a budget not-to-exceed \$1,470,000, including contingency.

The following is a justification to sole source the particular equipment:

- Worthington influent pumps by the FlowServe - Existing large capacity solids handling influent pumps are Worthington MNV configuration, vertical with base elbow, motor on separate floor, installed in 1972 and operating efficaciously for the last 47 years. Replacement in-kind is the most cost effective solution due to the minimal pump station modifications required.
- WEMCO® Torque-Flow® grit pumps by the Weir Group - Existing grit pump is WEMCO® Torque-Flow® grit pumps by the Weir Group installed in 1980 and operating efficaciously for the last 39 years. Replacement in-kind is the most cost effective solution due to a minimal pump station modifications required.

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- Millikan Plug Valves - The LASAN has standardized on Millikan plug valves and to date, approximately 200 have been installed at the Water Reclamation Division (WRD) Plants which comprise of the LAGWRP and the Donald C. Tillman Water Reclamation Plant. The benefits of these valves include reliability, safety, and dependable performance.
- Rotork Actuators - The LASAN has standardized on Rotork actuators and to date, approximately 450 have been installed at the WRD Plants. The benefits of these actuators include a double-sealed enclosure, non-intrusive infrared commissioning, data-logging, and predictive maintenance capabilities.
- Krohne Magnetic Flow Meters - The LASAN has standardized on Krohne and to date, approximately 125 have been installed at the WRD Plants. Replacement in-kind of the existing 47-year-old Krohne meters is the most cost effective solution due to no installation modifications required.
- Rockwell Automation's Allen Bradley LCP/PLC - The LASAN has standardized on Rockwell Automation's LCP/PLC, and to date approximately 50 have been installed at the WRD Plants. To facilitate integration with the existing systems, all new PLCs and VFD's must also be manufactured by Rockwell Automation. Compatibility issues will arise and the warranty will be voided if the upgrades are provided by a different manufacturer.
- Evoqua's Wallace and Tiernan Chlorine Analyzers - The LASAN has standardized use of these on-line chlorine analyzers for compliance monitoring of residual chlorine in recycled water with conditions described in permits, disinfection, and discharge permit respectively. To date, approximately 15 have been installed. The benefits of these analyzers include reliable performance, real-time chlorine analysis to optimize disinfection process and/or to report to regulatory agencies as a part of permit compliance, and predictive maintenance capabilities.
- Evoqua's Water Champ® FX chemical induction mixers - The LASAN has standardized on Evoqua's Water Champ® FX mixers with excellent operating track record. Replacement in-kind is the most cost effective solution due to no installation modifications required and no shutdown required for the replacement.
- ProMinent Chemical Metering Pumps - The LASAN has standardized on ProMinent chemical metering pumps in operation for last 20 years. To date, approximately 10 have been installed. The benefits of these pumps include reliable metering under the harshest operating conditions, extremely durable materials that result in fault-free operation important for permit compliance, and predictive maintenance capabilities.

The sole sourced equipment will be purchased from the vendor lists shown in Table 1:

Table 1: Proposed Sole Sourced Process Equipment						
No.	Description	No. of Units	Vendor	Estimated (\$)	Cost	Justification
CIP 4185 LAGWRP Preliminary Treatment Improvement						1. Equipment is sole sourced to match existing equipment.
1	Worthington Influent Pump	3	Flow Serve	\$	780,000	
2	WEMCO® Torque-Flow® Grit Pump	2	WEIR Group	\$	95,000	
3	Actuator	15	Rotork	\$	118,000	
4	Magnetic Flow Meters (48 inches, 6 inches)	2	Krohne	\$	70,000	
5	Plug Valves	9	Millikan	\$	18,000	2. Proven track record, current technology, reduced operation, maintenance, spare parts, and training costs.
CIP 4185 Total					\$1,135,000	
CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation						
	LCP/PLC Allen Bradley CompactLogix 5380 Controller with the PanelView™ 5000, 15-inch screen		Rockwell Automation			
1		1		\$	90,000	
2	Wallace and Tiernan Chlorine Analyzer	2	Evoqua	\$	50,000	
3	Water Champ® FX Chemical Induction Mixer	2	Evoqua	\$	50,000	
4	Magnetic Flow Meters (1-1/2 inches)	2	Krohne	\$	29,000	
5	ProMinent Chemical Metering Pumps	4	ProMinent	\$	100,000	
CIP 4200 Total					\$ 335,000	
Total					\$1,470,000	

Recommendation

Based on the information contained in this report, the BOE and the LASAN recommend that the Board authorize the City Engineer to:

1. Approve the selection of process equipment to be sole sourced for these projects.
2. Negotiate and execute sole sourced agreements with the seven manufacturers listed in Table 1 to provide the required equipment for this project. Agreements will be included as the allowance items for purchase and installation by the General Contractor of CIP 4185 and CIP 4200.

Program Review Committee (PRC)

The PRC approved a construction budget of \$7,240,000 for LAGWRP Preliminary Improvements (CIP 4185) on April 11, 2018.

The PRC approved a construction budget of \$2,332,000 for LAGWRP Sodium Hypochlorite Facility Relocation (CIP 4200) on November 14, 2018.

STATUS OF FUNDING

There is no impact to the General Fund. Funds will be provided within the Sewer Construction and Maintenance Fund. Funding information will be provided in the awarding board report.

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Bureau of Engineering
Bureau of Sanitation
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June 28, 2019
Page 5

(MJS RMK KRR MR AKN TJM)

Report reviewed by:

BOE (ADM) and
BOS (WRD and FMD)

Report prepared by:

Environmental Engineering Division

Michael J. Sarullo, PE, ENV SP
Division Engineer
Phone No. (310) 648-6120

MJS/SDH/NS/05-2019-0077.EED.mel

Questions regarding this report
may be referred to:

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E-mail: Nadir.Shah@lacity.org

Respectfully submitted,



Gary Lee Moore, PE, ENV SP
City Engineer
Bureau of Engineering



Enrique C. Zaldivar, PE
Director and General Manager
Bureau of Sanitation

TRANSMITTAL NO. 1

Department of Public Works

Bureau of Engineering
Bureau of Sanitation
Joint Report No. 2

June 28, 2019
CD No. 4

ADOPTED BY THE BOARD
PUBLIC WORKS OF THE CITY
of Los Angeles California

JUN 28 2019


Executive Officer
Board of Public Works

LOS ANGELES GLENDALE WATER RECLAMATION PLANT (LAGWRP) PRELIMINARY TREATMENT IMPROVEMENTS [CAPITAL IMPROVEMENT PROJECT (CIP) 4185, WORK ORDER NO. SZL11231] AND LAGWRP SODIUM HYPOCHLORITE FACILITY RELOCATION (CIP 4200, WORK ORDER NO. SZL11212) PROCUREMENT OF PROCESS EQUIPMENT - EQUIPMENT SOLE SOURCING

RECOMMENDATIONS

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2. Authorize the City Engineer to sole source the selection of following equipment for an amount not-to-exceed \$335,000, for the LAGWRP Sodium Hypochlorite Facility Relocation Project (CIP 4200):
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DISCUSSION

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Sole Source Justification

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- Millikan Plug Valves - The LASAN has standardized on Millikan plug valves and to date, approximately 200 have been installed at the Water Reclamation Division (WRD) Plants which comprise of the LAGWRP and the Donald C. Tillman Water Reclamation Plant. The benefits of these valves include reliability, safety, and dependable performance.
- Rotork Actuators - The LASAN has standardized on Rotork actuators and to date, approximately 450 have been installed at the WRD Plants. The benefits of these actuators include a double-sealed enclosure, non-intrusive infrared commissioning, data-logging, and predictive maintenance capabilities.
- Krohne Magnetic Flow Meters - The LASAN has standardized on Krohne and to date, approximately 125 have been installed at the WRD Plants. Replacement in-kind of the existing 47-year-old Krohne meters is the most cost effective solution due to no installation modifications required.
- Rockwell Automation's Allen Bradley LCP/PLC - The LASAN has standardized on Rockwell Automation's LCP/PLC, and to date approximately 50 have been installed at the WRD Plants. To facilitate integration with the existing systems, all new PLCs and VFD's must also be manufactured by Rockwell Automation. Compatibility issues will arise and the warranty will be voided if the upgrades are provided by a different manufacturer.
- Evoqua's Wallace and Tiernan Chlorine Analyzers - The LASAN has standardized use of these on-line chlorine analyzers for compliance monitoring of residual chlorine in recycled water with conditions described in permits, disinfection, and discharge permit respectively. To date, approximately 15 have been installed. The benefits of these analyzers include reliable performance, real-time chlorine analysis to optimize disinfection process and/or to report to regulatory agencies as a part of permit compliance, and predictive maintenance capabilities.
- Evoqua's Water Champ® FX chemical induction mixers - The LASAN has standardized on Evoqua's Water Champ® FX mixers with excellent operating track record. Replacement in-kind is the most cost effective solution due to no installation modifications required and no shutdown required for the replacement.
- ProMinent Chemical Metering Pumps - The LASAN has standardized on ProMinent chemical metering pumps in operation for last 20 years. To date, approximately 10 have been installed. The benefits of these pumps include reliable metering under the harshest operating conditions, extremely durable materials that result in fault-free operation important for permit compliance, and predictive maintenance capabilities.

The sole sourced equipment will be purchased from the vendor lists shown in Table 1:

Table 1: Proposed Sole Sourced Process Equipment						
No.	Description	No. of Units	Vendor	Estimated (\$)	Cost	Justification
CIP 4185 LAGWRP Preliminary Treatment Improvement						1. Equipment is sole sourced to match existing equipment.
1	Worthington Influent Pump	3	Flow Serve	\$ 780,000		
2	WEMCO® Torque-Flow® Grit Pump	2	WEIR Group	\$ 95,000		
3	Actuator	15	Rotork	\$ 118,000		
4	Magnetic Flow Meters (48 inches, 6 inches)	2	Krohne	\$ 70,000		
5	Plug Valves	9	Millikan	\$ 18,000		2. Proven track record, current technology, reduced operation, maintenance, spare parts, and training costs.
CIP 4185 Total				\$1,135,000		
CIP 4200 LAGWRP Sodium Hypochlorite Facility Relocation						
	LCP/PLC Allen Bradley CompactLogix 5380 Controller with the PanelView™ 5000, 15-inch screen	1	Rockwell Automation	\$ 90,000		
2	Wallace and Tiernan Chlorine Analyzer	2	Evoqua	\$ 50,000		
3	Water Champ® FX Chemical Induction Mixer	2	Evoqua	\$ 50,000		
4	Magnetic Flow Meters (1-1/2 inches)	2	Krohne	\$ 29,000		
5	ProMinent Chemical Metering Pumps	4	ProMinent	\$ 100,000		
CIP 4200 Total				\$ 335,000		
Total				\$1,470,000		

Recommendation

Based on the information contained in this report, the BOE and the LASAN recommend that the Board authorize the City Engineer to:

1. Approve the selection of process equipment to be sole sourced for these projects.
2. Negotiate and execute sole sourced agreements with the seven manufacturers listed in Table 1 to provide the required equipment for this project. Agreements will be included as the allowance items for purchase and installation by the General Contractor of CIP 4185 and CIP 4200.

Program Review Committee (PRC)

The PRC approved a construction budget of \$7,240,000 for LAGWRP Preliminary Improvements (CIP 4185) on April 11, 2018.

The PRC approved a construction budget of \$2,332,000 for LAGWRP Sodium Hypochlorite Facility Relocation (CIP 4200) on November 14, 2018.

STATUS OF FUNDING

There is no impact to the General Fund. Funds will be provided within the Sewer Construction and Maintenance Fund. Funding information will be provided in the awarding board report.

Department of Public Works
Bureau of Engineering
Bureau of Sanitation
Joint Report No. 2

June 28, 2019
Page 5

(MJS RMK KRR MR AKN TJM)

Report reviewed by:

Respectfully submitted,

BOE (ADM) and
BOS (WRD and FMD)



Report prepared by:

Gary Lee Moore, PE, ENV SP
City Engineer

Environmental Engineering Division

Bureau of Engineering

Michael J. Sarullo, PE, ENV SP
Division Engineer
Phone No. (310) 648-6120



Enrique S. Zaldivar, PE
Director and General Manager
Bureau of Sanitation

MJS/SDH/NS/05-2019-0077.EED.mel

Questions regarding this report
may be referred to:

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**BOARD OF PUBLIC WORKS
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MAYOR**DEPARTMENT OF
PUBLIC WORKS
BUREAU OF
ENGINEERING****TED ALLEN, PE**
CITY ENGINEER1149 S. BROADWAY, SUITE 700
LOS ANGELES, CA 90015-2213<http://eng.lacity.org>

May 31, 2024

Samuel Hannah, Project Manager
 PPC Construction, Inc.
 930 Colorado Blvd., Suite 3
 Los Angeles, CA 90041

**Project: 4200 - LAGWRP Sodium Hypochlorite Facility Relocation Capital
 Improvement**

W.O. SZL11212

Subject: Preliminary CO No. 002

CLA Ltr. No.002

Dear Samuel Hannah:

Please see the attached Preliminary CO No. 002 and submit a Lump Sum proposal for the extra work with a complete itemized cost breakdown of all labor, materials and equipment necessary to accomplish this work. Please submit your written cost proposal within two weeks from the date of this letter. This office will review your proposal and, if necessary, it will be negotiated for final resolution to the satisfaction of both parties.

In addition, please provide a CPM schedule analysis for any impact to the critical path of the construction schedule as a result of this change. If applicable, provide an estimate in terms of calendar days, supported by the analysis, to be added or deducted from the critical path of the current project schedule.

No work shall be performed on this change unless a directive to proceed is forwarded from this office.

For all correspondence regarding this change, please reference Preliminary CO No.002. If you have any questions, please contact me at adil.samed@lacity.org.

Sincerely,

Adil Samed
 Construction Manager
 Environmental Engineering Division

cc: Garry.Moody@lacity.org,
dean.w.lee@lacity.org,
john.batthey@lacity.org,
Natalie.Rojas@lacity.org

Transmittal #4



City of Los Angeles - Department of Public Works - Bureau of Engineering

PRELIMINARY CHANGE ORDER

Project Title 4200 - LAGWRP Sodium Hypochlorite Facility Relocation Capital Improvement		Project No 4200	PCO No 002	File No 8.6.4	Page No
W.O. No SZL11212	Contract No C-144391	Bid Item No	Subject Rockwell LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen		
Contractor PPC Construction, Inc.		COR No None Specified	Plan Reference EP101, EP102, IG05, IP01		
Category Error & Omissions		Schedule Activity	Specification Reference 01112, 01212, 17400		

1. Reason for Change

Rockwell PLC/LCP Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen cabinet sole source package updated proposal exceeds the allocated Allowance Order budget. This Change Order will address the remaining costs of the updated proposal.


Note: The Board of Public Works authorization report is being processed.

2. Description of Change

The Contractor shall procure one LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen cabinet package per the attached updated proposal dated February 27, 2024.


This is not an authorization to proceed with the proposed change order. Do not perform any work that may conflict with the proposed change order without further authorization by the City.

Submitted By:


Adil Samed
Construction Manager

Date: 05/31/2024

Approved By:


Alvaro Prada
Sr.Engineer / Division Manager

Date: 05/31/2024

Uploaded Files

File Name	Size(Bytes)	Uploaded By
AO-02-03 LCP-PLC Rockwell.pdf	700298	Bryan Gathuka
Transmittal No. 1.pdf	645898	Bryan Gathuka
Schedule of Work and Prices.pdf	120686	Bryan Gathuka
mini-packet_BPW - Regular Meeting_20240220180456058 adpoted_E7E034.pdf	1465614	Bryan Gathuka

Document links

Allowance Order	02-003: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
Allowance Order	02-006: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
AO Initiation	02-003: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
AO Initiation	02-006: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
AO Record Of Negotiation	02-003: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
AO Record Of Negotiation	02-006: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
AO Request	AOR 007 : AO 02-003 LCP Alternate Proposal
AO Request	AOR 008 : PAO 02-006 Subject: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
CM AO Est	005-R01 - AO 02-003: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
CM AO Est	007-R00 - AO 02-006: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
Preliminary AO	02-003: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen
Preliminary AO	02-006: One LCP/PLC Allen Bradley Compact Logix 5380 Controller with the PanelView 5000, 15-inch Screen