



## **MINUTES**

### **Supervisory Committee Meeting**

**Thursday, October 24, 2019**

**South Platte Water Renewal Partners (SPWRP)**

**2900 South Platte River Drive, Englewood, CO 80110 - Colorado Room 9:00 a.m.**

### **COMMITTEE MEMBERS PRESENT:**

Maria D'Andrea	City of Englewood, Public Works Director
Shawn Lewis	City of Englewood, City Manager
Keith Reester	City of Littleton, Public Works Director
Mark Relph	City of Littleton, City Manager

### **STAFF/CONSULTANTS PRESENT:**

Kacie Allard	SPWRP Deputy Director – Business Solutions
Blair Corning	SPWRP Deputy Director – Environmental Programs
Samma Fox	Executive Assistant to the City Manager of Littleton
Alyssa Hoffman	SPWRP Business Services Specialist
Jamie Safulko	SPWRP Engineering Project Manager
Matt Montgomery	Hill & Robbins, SPWRP Attorney
Brian Tracy	SPWRP Deputy Director – Operations & Maintenance
Pieter Van Ry	SPWRP Director
Brenda Varner	SPWRP Government Communications Specialist
Chong Woo	SPWRP Deputy Director – Engineering

### **GUESTS:**

Cynthia Lane	Platte Canyon Water & Sanitation District, Assistant Manager
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## **I. Call to Order**

The October Supervisory Committee (Committee) meeting was called to order by Pieter Van Ry, the Director of South Platte Water Renewal Partners (SPWRP).

## **II. Consideration of Minutes for Previous Supervisory Committee Meetings**

The September Supervisory Committee meeting minutes were approved via email by Committee Member Reester, Committee Member Lewis, Committee Member Relph and Committee Member D'Andrea on October 16 and 19, 2019.

### III. Action Item(s)

#### Chemical Phosphorus Removal and UV Disinfection Design Project:

Ms. Jamie Safulko, SPWRP Engineering Project Manager, discussed the recommendation for a professional services agreement with Stantec Consulting Services Inc. (Stantec), in the amount of \$1,298,558, for the Chemical Phosphorus and UV Disinfection Design Project (Project).

The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission (WQCC) instituted new discharge permit limitations, Regulation No. 85 (Reg. 85), for phosphorus and nitrogen, which need to be met by June 2023. Also included in Reg. 85, is a 10-year voluntary incentive program which grants extended permit compliance timeframe to meet Reg. 31, for wastewater treatment plants who are able to achieve these voluntary nutrient reductions between 2018 and 2027.

With SPWRP's existing treatment, the facility is treating to low enough TIN (total inorganic nitrogen) limits to gain incentive credits and intends to pursue these credits through the program.

Currently, the SPWRP does not have the capacity to treat phosphorus to comply with the Reg. 85 phosphorus limits or incentive program limits. In order to decrease effluent phosphorus concentrations at SPWRP, chemical phosphorus removal is the preferential method since Reg. 85 limits can be achieved with lower capital costs, minimal modifications to existing infrastructure, and the ability to complement the selected solution to meet Reg. 31 in the future. Additional benefits to chemical phosphorus include the potential to increase biogas production from increased solids, it is a mature technology, and it is adaptable to changing influent conditions.

In addition to the chemical phosphorus removal system design, SPWRP included the analysis and design of converting the existing chloramine disinfection system to Ultraviolet (UV) disinfection. SPWRP combined chemical phosphorus removal and UV disinfection into one Project due to the impacts chemical phosphorus treatment can have on water quality and the disinfection processes. The goal of having a combined project is to facilitate a holistic implementation approach and improve overall project efficiency.

SPWRP's existing disinfection system combines process ammonia with sodium hypochlorite to form chloramines. By converting the disinfection system from sodium hypochlorite and ammonia to UV disinfection the facility can drastically decrease chemical usage, have consistent and reliable control over the disinfection process by fully eliminating the process ammonia, and effectively meet all discharge permit requirements for disinfection.

SPWRP received seven (7) proposals for engineering and design consultant services for this Project. The SPWRP Selection Committee reviewed, evaluated and ranked the proposals focusing on specific criteria. Based on the Selection Committee's evaluation of

the proposals and interviews conducted, Stantec Consulting Services, Inc. is the recommended consultant for the Project and recommends the Committee approve an award of contract to Stantec Consulting Services Inc. to conduct the Chemical Phosphorus and UV Disinfection Design Project, in the amount of \$1,298,558. The Project was identified in the 2019 Capital Budget, as well as planned in the proposed 2020 Capital Budget

***ACTION TAKEN – The Supervisory Committee considered the recommendation to approve a professional services agreement with Stantec Consulting Services, Inc., for the Chemical Phosphorus Removal and Ultraviolet Disinfection Project, in the amount of \$1,298,558. Committee Member Lewis moved to approve, Committee Member Relph seconded the motion, four ayes, no nays. Motion approved.***

Network Hardware Replacements – Purchase Recommendation:

Mr. Chong Woo, SPWRP Deputy Director – Engineering, discussed the recommendation to approve a purchase order agreement with High Point Networks, LLC, in the amount of \$222,363, for Network Hardware Replacements.

Computer network hardware are physical devices which are required for communication and interaction between nodes on a computer network. The purpose of this purchase is to replace the aging network equipment in all SPWRP plant site buildings. This equipment is at the end of service life, meaning the manufacturer will no longer support or provide security patches for the equipment. When security patches are stopped, the firmware updates are also stopped, which creates system vulnerabilities and places SPWRP at risk. Replacing network equipment will maximize SPWRP investment in its computing infrastructure as well as enhance the reliability, versatility, and security of the enterprise systems.

This purchase was identified in the 2020 Capital Budget. However, staff was recently made aware of a potential price increase in 2020 due to the threat of new tariffs being imposed. This 2020 price was estimated to increase the cost by approximately 20-25%. Based on this new information, staff is recommending the purchase in 2019. No additional appropriations in the Capital Budget will be necessary as the expense is covered in the existing budget.

***ACTION TAKEN – The Supervisory Committee considered the recommendation to approve a purchase order agreement with High Point Networks, LLC, for Network Hardware Replacements, in the amount of \$222,363. Committee Member Relph moved to approve, Committee Member Lewis seconded the motion, four ayes, no nays. Motion approved.***

#### IV. Informational Items

SPWRP staff discussed these informational items with the Committee:

- School of Mines Partnership
  - Director Van Ry discussed a pilot study called, "CHARGE" (Coupled Hybrid Reactor for the Generation of Energy), between the SPWRP and the Colorado School of Mines. This study takes primary influent and sends it through a series of anaerobic compartments to remove BOD (biochemical oxygen demand) and TSS (total suspended solids), while simultaneously producing energy in the form of methane. SPWRP is being recognized on a national level for our participation in promoting graduate research opportunities.
- Building Envelope Repairs 2019 Design Services
  - Director Van Ry updated the Committee on the status of the Building Envelope Repairs Project. In 2018, Intergroup Architects (IGA) was selected to conduct a detailed condition assessment. In 2019, SPWRP initiated discussions with IGA to conduct design services, based on the condition assessment analysis recently completed. Staff decided to issue a new RFP in order to ensure competitive pricing. Results of the RFP evaluation by staff recommended a new consultant be selected, Amtech Solutions. Amtech Solutions provided the lowest cost proposal and best value.
- Director Updates:
  - Electrical Improvements Project – Director Van Ry updated the Committee on a current project that required a change order increase.
  - SPWRP Uniforms – staff selected new options for staff uniforms and cleaning services for SPWRP. An update will be provided at the November Committee meeting.
  - EPA Visit –Staff from EPA, Region 8, visited and toured SPWRP on Wednesday, October 23, 2019.
  - SPWRP Purchasing Policy – Changes to the policy will be recommended to clarify cumulative purchases and change orders. An update will be provided at the December Committee meeting.
  - Xcel Energy Easement – Draft ordinance for easement is with Xcel for approval.
  - Upcoming Biogas Ribbon Cutting Ceremony – Currently testing equipment prior to ceremony. Expecting 80-100 in attendance for the event.





- Three (3)-Month Outlook for Supervisory Committee Action Items
- SPWRP Influent Flow and Load Summary:
  - The measured flow to SPWRP averaged 18.2 mgd in September 2019, which is a decrease of approximately 2.3 mgd from September 2018. The measured flow split was 44.4 / 55.6 percent between the cities of Littleton and Englewood.
- Fiscal Management and Reporting

## V. Adjournment

The next Supervisory Committee meeting is scheduled for Thursday, November 21, 2019, 9:00 a.m., in the Colorado Room, at the South Platte Water Renewal Partners facility.

Adjourned at 10:05 a.m.

Recording Secretary Signature \_\_\_\_\_

Brenda J. Varner

***The SPWRP Supervisory Committee approved the October 24, 2019 meeting minutes via email on November 15 and 18, 2019. Committee Member Relph, Committee Member D'Andrea, Committee Member Lewis, and Committee Member Reester voted; four ayes, zero nays. Minutes approved.***