

AGENDA

**ENGINEERING COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT
Wednesday November 1, 2023 – 9:00 a.m.
1960 La Costa Avenue, Carlsbad, CA 92009**

1. **Call to Order**
2. **Roll Call**
3. **Public Comment**
4. **New Business**
Authorize the General Manager to execute a sole source procurement with Rockwell Solutions for the purchase of a Vaughan Submersible Chopper Pump as a spare conditioning pump for the Leucadia Pump Station in an amount not to exceed \$36,880. (Pages 2 - 4)
5. **Information Items**
San Marcos Creek Pipeline Issue. (Verbal)
6. **Directors' Comments**
7. **General Manager's Comments**
8. **Adjournment**

MEMORANDUM

DATE: October 26, 2023
TO: Engineering Committee
FROM: Paul J. Bushee, General Manager 
SUBJECT: Purchase of a Spare Vaughan Chopper Pump for Leucadia Pump Station

RECOMMENDATION:

Staff requests that the Engineering Committee recommend that the Leucadia Wastewater District (LWD) Board of Directors:

1. Authorize the General Manager to execute a sole source agreement with Rockwell Solutions for the purchase of a Vaughan Submersible Chopper Pump for the Leucadia Pump Station in an amount not to exceed \$36,880.
2. Discuss and take other action as appropriate.

DISCUSSION:**Tactical Goal: Infrastructure and Technology / Purchases / Spare Conditioning Pump (Leucadia Pump Station)**

The Leucadia Pump Station (LPS) is LWD's second-largest and pumps 2.5 million gallons of wastewater daily. Historically, staff has faced a persistent challenge at both Leucadia and Batiquitos Pump Stations with the accumulation of grease, wet wipes and debris which form a sizable grease mat that at times reached over 1 foot thick in the wet well. This occurrence disrupted pump station operations in several ways:

- It caused interference with electronic level sensors, resulting in false readings.
- It increased maintenance activities as large pieces of grease and wet wipes clogged pumps and required manual cleaning.
- It created odors.

During the LPS Rehabilitation Project in 2021, LWD addressed this issue by installing a Vaughan Submersible Chopper Pump in the wet well to serve as a conditioning pump. The conditioning pump has eliminated the grease mat issue. Because the repair of these type of pumps can often take 8 to 10 weeks, staff is recommending the purchase of a spare pump to maintain operational effectiveness based on the fact that the grease mat can develop rapidly in the absence of a conditioning pump.

Staff recently contacted Rockwell Solutions, who is the authorized dealer of Vaughan Pumps, to obtain a price quote for the spare pump. The price quote of \$36,880 is beyond staff's signature authority and, therefore, requires Board approval. The price quote has been attached for your review. Since the spare pump matches existing equipment, the recommended purchase is consistent with the sole source provisions of LWD's Procurement Policy.

FISCAL IMPACT:

The Fiscal Year 2024 Capital Acquisition Budget includes \$37,000 for this item which is sufficient to cover the cost of the pump.

Attachment

mg:PJB

To: Leucadia Wastewater District
Attn: Gabriel mendez

September 18th, 2023

RE: Vaughan Chopper Pumps – Wet Well Mixing



Gabe: Per your email, here is the information regarding the Duplicate Vaughan Chopper Pumps for the Station Mixing Operation.

As we have shown with yours and many local existing pumps, the chopper pump will cut and chop plastic, wood, rags and misc. other material while eliminating the eliminating the need for bar screens or grinders. We have supplied many chopper pumps to chop and cut the solids that plug or clog other pumps.

These pumps also have a sealed oil bearing design that eliminates abrasion/corrosion contamination of the seal and bearings.

We would like the chance to continue to show you the advantages of the chopper pumps and how we eliminate any need for screens, other pumps, or grinders.

If you have any questions please call.

Sincerely,

Kent Rockwell

Vaughan Model S4S-118

Submersible Chopper Pump consisting of:

Casing, cast ductile iron with 3" ANSI CL 125 discharge flange.
Impeller, Cutter Bar, Cutter Nut Upper Cutter, cast steel, heat treated to minimum Rockwell C60.

Mechanical Seal, cartridge type with ductile iron gland, Viton O-rings, silicon carbide faces, and integral stainless steel sleeve as manufactured by Vaughan.

Elastomers, Buna N

Bearings, oil bath lubricated with minimum 100,000-hour L-10 bearing life.

Bearing Housing, cast ductile iron with piloted motor mount.

Automatic Oil Level Monitor, PVC plastic reservoir with 120V switch and relay and 50 ft. of hose.

Shaft, heat treated steel

Drive, 15 HP, 1200 RPM, 460V, 3 phase, 60 Hz, 1.15 SF, Explosion Proof (Class 1, Group C & D) **continuous in air duty submersible motor** with tandem mechanical seals, moisture sensors, internal thermostats, and 50 feet of power and control cable.

Premium Pump Finish: Solvent wash, sandblast and coat with minimum 30 MDFT Tnemec Perma-Shield PL Series 431 epoxy. (Except Motor)

NOTE: CUSTOMER TO REUSE EXISTING GUIDE RAIL AND RECIRC SYSTEM

DISCOUNTED PRICE:

\$36,880.-

Pump Performance: 900 GPM @ 34 FT. TDH

Application: LIFT STATION

Industry: MUNICIPAL