

**AGENDA**

**ENGINEERING COMMITTEE MEETING  
LEUCADIA WASTEWATER DISTRICT**

Wednesday, June 2, 2021 – 10:30 a.m.

Via Teleconference

Pursuant to the State of California Executive Order N-29-20, and in the interest of public health, the District is temporarily taking actions to mitigate the COVID-19 pandemic by holding meetings by teleconference. The general public may not attend this meeting at the District's office due to social distancing requirements.

Members of the public attending via teleconference will be provided with an opportunity to comment on each agenda item prior to Committee discussion.

**To join this meeting via Teleconference, please dial: 1-669-900-6833**

**Meeting ID: 882 3883 7766**

**Password: 341260**

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1. **Call to Order**
  2. **Roll Call**
  3. **Public Comment**
  4. **New Business**
    - A. Authorize the General Manager to execute a five-year professional services agreement with ADS Environmental Services (ADS). The original ADS cost proposal is being reviewed by both LWD and ADS Legal Counsels in light of the recent prevailing wage case (Kaanaana v. Barrett Business Services, Inc.) ruling by the California State Supreme Court. Staff anticipates having the cost of service prior to the Engineering Committee meeting. (Pages 2 - 3)
    - B. Authorize the General Manager to execute a Purchase Agreement with Rockwell Engineering & Equipment Company, Incorporated for the purchase of a replacement Emergency Bypass Pump in an amount not to exceed \$99,600. (Pages 4 - 7)
  5. **Information Items**
    - A. Development Projects Summary (Page 8)
    - B. Leucadia Pump Station Rehabilitation Project Update (verbal)
    - C. FY21 Cured-In-Place Pipe Lining Project (verbal)
  6. **Directors' Comments**
  7. **General Manager's Comments**
  8. **Adjournment**

**MEMORANDUM**

**DATE:** May 27, 2021  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** **ADS Environmental Services Agreement for Flow Monitoring Services**

**RECOMMENDATION:**

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute a five-year professional services agreement with ADS Environmental Services (ADS). The original ADS cost proposal is being reviewed by ADS Legal Department in light of the recent prevailing wage case (Kaanaana v. Barrett Business Services, Inc.) ruling by the California State Supreme Court. Staff anticipates having the cost of service prior to the Engineering Committee meeting.
  
2. Discuss and take other action as appropriate.

**DISCUSSION:**

In October 2016, the Board of Directors approved a contract with ADS Environmental Services (ADS) for the installation of seven ADS owned flow meters in the District's collection system. In addition to installation, the contract included equipment maintenance and repair along with flow data collection, analysis and reporting. The seven meters were installed at the following locations:

<u>Meter No.</u>	<u>Location</u>
L1	Highway 101
L2	Olivenhain Road
L3	South Green Valley
L4	La Costa Avenue
L5	North Green Valley
L6	Saxony Pump Station (Clamp-on flow meter)
L7	La Costa Pump Station (Clamp-on flow meter)

The ADS contract is up for renewal on July 1, 2021. ADS has proposed to continue providing flow monitoring services to include providing the meters, equipment maintenance, flow metering, data collection, data analysis, graphing, reporting and ADS website access.

In January 2021, staff started an evaluation of the seven meter locations and collection system flow data provided by those meters. As a result, staff discovered that two meters, L2 – Olivenhain Road (L2) and L3 – South Green Valley (L3), were not providing accurate data. The discrepancy was uncovered when the Equivalent Dwelling Unit (EDU) count for each area was compared to the flow being reported by the corresponding meter. Staff worked with ADS to determine the cause and to find a solution to correct the discrepancies. However, no solution was found. As a result, staff decided to have the L2 and L3 meters removed. The combined

flow from those meters, Olivenhain Road and South Green Valley, is captured further downstream by the L5 – North Green Valley meter. Therefore, the removal of the L2 and L3 meters will not significantly impact flow monitoring of the collection system.

As a result of the removal of two meters, staff anticipates a reduction in the cost of this agreement. However, the impact of a prevailing wage determination by the ADS Legal Department due to the recent case ruling by the California State Supreme Court is unknown at this time. It should be noted that ADS has provided excellent service over the past thirteen years.

js:PJB

**MEMORANDUM**

**DATE:** May 27, 2021  
**TO:** Engineering Committee  
**FROM:** Paul J. Bushee, General Manager   
**SUBJECT:** Award of Purchase Agreement for a Replacement Emergency Bypass Pump

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**RECOMMENDATION:**

Staff requests that the Engineering Committee recommend that the Board of Directors:

1. Authorize the General Manager to execute a Purchase Agreement with Rockwell Engineering & Equipment Company, Incorporated for the purchase of a replacement Emergency Bypass Pump in an amount not to exceed \$99,600.
2. Discuss and take other action as appropriate.

**BACKGROUND:**

In November 2019 the Board of Directors approved the purchase of an Emergency Electric Motor Driven Bypass Pump (Electric Pump). This procurement was to replace a trailer mounted Emergency Diesel Driven Bypass Pump. The bypass pump enables the District to completely bypass the largest capacity pump stations, Batiquitos and Leucadia. During an event of a loss of pumping capability at either pump station, staff deploys and sets up the bypass pump to maintain collection system operation to prevent a sewer system overflow.

Prior to conducting the pump procurement staff evaluated whether an electric motor pump would be a viable replacement for a diesel engine pump. As a result of this evaluation, it was determined that an electric motor pump would be a viable option for the following reasons:

1. No annual permit required with San Diego County Air Pollution Control District (APCD), a cost savings of \$230 per year
2. Smaller trailer wheel base making it easier to tow, back-up and position
3. Lower maintenance costs associated with an electric motor
4. No limit on the time an electric motor pump can be connected at a pump station because it is not a violation of APCD regulations

The Electric Pump was received in January 2020. Upon receiving the Electric Pump it was field tested at Batiquitos Pump Station. During the initial field test the Electric Pump failed to pump. Subsequently, the Electric Pump was field tested an additional seven (7) times, with the last test conducted in April 2021. The field tests were conducted by staff and Pioneer Pump (Pioneer), pump manufacturer, Representatives. Additionally, from December 2020 to April 2021 Pioneer replaced the pump impeller and remounted the Electric Pump on the trailer at their factory. Unfortunately, the Electric Pump has not been able to successfully operate during field testing. Therefore, staff has decided to return the Electric Pump to Pioneer and replace it with a diesel engine pump.

**DISCUSSION:**

In order to maintain emergency bypassing capability, a diesel engine pump was rented from Charles King Company (CKC). The CKC rented pump was tested and operated well at Batiquitos Pump Station. Ironically, the rental pump is manufactured by Pioneer. Staff discussed the return of the Electric Pump for a new diesel engine pump with similar specifications of the CKC rental pump with Rockwell Engineering & Equipment Company, Inc (Rockwell), the Pioneer Representative. Through Rockwell, Pioneer has agreed to provide the District with a duplicate of the CKC rented pump.

Pioneer will “buy back” the Electric Pump at the original price, sales tax not included. Pioneer will supply the District with a new Diesel Pump and Trailer System (DPTS). The DPTS will meet all APCD emission requirements and is sound attenuated. Pioneer, through Rockwell, will provide the DPTS at their cost, no extra profit or commissions, see the attached Pioneer quote. The cost summary is provided in the chart below:

Description	Price
Diesel Pump & Trailer System (DPTS) Base Package	\$140,000
Electric Pump Credit	- \$59,100
Net Difference	\$80,900
Options: Exterior Lighting, Interior Lighting, Corner Jacks, 120VAC Trickle Charger, Special Suction Cleanout	\$5,700
Subtotal	\$86,600
Sales Tax (7.75%)	\$6,712
<b>TOTAL</b>	<b>\$93,312</b>

It should be noted that transportation and off-loading cost, estimated at \$6,250, will be added to the total price identified in the chart above, for a total cost of \$99,562.

Staff believes this pump trade is a reasonable solution to replace the Electric Pump. Therefore, staff recommends that the Board award the purchase of the Emergency Diesel Pump and Trailer System to Rockwell Engineering & Equipment Co, Inc. in an amount not to exceed \$99,600.

**FISCAL IMPACT:**

The proposed Fiscal Year 2022 Capital Acquisition Budget includes sufficient funding for the purchase of this emergency bypass pump.

rym:PJB

Attachment

**Franklin Electric / Pioneer Pump  
310 Sequoia Pkwy.  
Canby, OR 97103**

Date: 5/23/2021

RE: LWD / Pioneer PP1212S17 Diesel Package Quote.

**Pioneer SAPP1212S17 1706J-E93TA**

- Impeller Trim: 17.25" Balance quality grade G6.3 as recommended in ANSI/HI 9.6.4.
- Perkins / 1706J-E93TA / 335 HP / FT4 Diesel Engine
- GL3 XL Sound Attenuated Trailer
- 210 Gallon Fuel Tank
- Pump Type: Pioneer Prime **SINGLE VACUUM PUMP** 50 CFM Vacuum Prime
- Volute discharge orientation: Top Horizontal (TH)
- Seal Type: Run Dry Mechanical Seal
- Bearing Frame: SAE Drive Coupling
- Materials of Construction: 71 - **"Ductile Iron Volute w/ CA6Nm Impeller"**
- Paint Color: Pioneer Green Standard
- Entire package completely assembled, primed, and painted prior to shipment

**Package Specifications**

- Control Panel: Murphy MPC-20
- Electric Brakes
- Existing Suction and Discharge Gauges to remain
- Existing 7-pin round trailer connector for trailer electric brakes/lights to remain
- Perkins ECU non-resettable hour meter.
- Existing spare tire and spare tire mount to remain
- Spare Parts (New) to be returned will be inventoried, inspected and compatible parts re-sent .
  - One (1) Full Trim 17.25" pump impeller (CA6NM Stainless Steel)
  - One (1) set of bearings
  - One (1) pump shaft (17-4 PH Stainless Steel)
  - One (1) set of mechanical seals
  - One (1) set of O rings and gaskets
- 2 Year Limited Warranty Included
- Pump will have lowered centerline, oil lubricated frame, and single vacuum pump. See options for suction cleanout pricing.

**Clarification Question Responses:**

**1. "Is the fuel capacity 250 gallons or 210 gallons as both capacities are stated in Brad's email? The cut sheet, Attachment A, specifies 210 gallons."**

210 Gallon Tank Included

**2. What is the gross weight of the new diesel driven pump package?**

The SAPP1212S17 1706J-E93TA package will weigh approx. 15,000 LBS Dry. Actual weight will be determined after completion of assembly.

SAPP1212S17 1706J-E93TA Package, components, and services will conform to attached specification with exception to the itemized pricing for options and adders below..

1. 1.05.3 - Shop Testing is included in base price.
2. 1.05.4 - System Testing is included in base price.
3. 1.05.5 - Hydrostatic Testing Optional Adder Price is itemized below.
4. 1.05.6 - Performance Testing Optional Adder Price is itemized below..

<b>SAPP1212S17 1706J-E93TA BASE Pump Package Price:</b>	<b>\$140,000.00*</b>
200 HP Belt Drive PP1212S17 "buy-back" credit:	(\$55,500.00)
<u>Credit for rental period (4/1-4/20)</u>	<u>(\$3,600.00)</u>
Net Difference Price less options listed below:	\$80,900.00

**Options / Adders:**

Performance Testing (1-3 Weeks.)	\$4,990.00
Head, Capacity, Power, and NPSH (2 Duty points)	
Hydrostatic Testing (2 Days)	\$800.00
Exterior lighting on all 4 sides of pump housing with separate switch	\$1,000.00
2 Interior lights on separate switch,	\$1,000.00
4x Corner Jacks	\$1,000.00
120VAC trickle charger	\$300.00
Special suction cleanout spool piece outside of enclosure,	\$2,400.00
6" BLIND RAISED FACE FLANGE (35215138)	
12" FULL FACE FLANGE GASKET (31871105)	
Transportation Charges Estimated (Pickup and Return) Actual Cost may vary.	\$5,500.00
Loading and Off-loading (Forklift)	\$750.00

**\*NET Price does not include itemized options nor adders.  
Sales tax excluded.**

Regards,



Eric D. Burleigh  
Southwest US Territory Manager  
Franklin Electric / Pioneer Pump  
619-770-7423

New projects this month: 3  
 Total active projects: 19

<b>LEUCADIA WASTEWATER DISTRICT</b>			
<b>Development Services Greater than 5 EDUs, Public Projects, or Sewer Improvements</b>			
<b>May-2021</b>			
District Location Code	Project Name	Project Description	Status
3252-0929	CASCADA VERDE	Development with Sewer Connection	In-Review. Waiting on final plan submittal.
3252-0943	LEUCADIA STREETScape	Streetscape Plan Check	Phase 1 approved and under inspection. Further phases in review.
3252-0996	ENCINITAS BEACH HOTEL	Development with Sewer Connection	Lateral connections complete. Coordinating inspection closeout.
3252-1006	Jason Street Storm Drain	Utility Conflict	Waiting on mylars. Project on hold pending funding.
3252-1015	Orpheus Avenue Drainage Improvements	Utility Conflict	In Review. Provided PC1 and now waiting on City of Encinitas.
3252-1032	Weston Annexation	Annexation/Subdivision with Sewer Connection	In Review. Waiting on plan submittal.
3252-1033	1528 N. Coast Highway	Development with Sewer Connection	Plans approved. Inspection ongoing.
3252-1058	El Camino Real Building	Development with Sewer Connection	Plans approved. Construction start (lateral inspection) pending.
3252-1074	City of Encinitas-Morning Sun & Woodside Lane	City CIP Project	Plans signed. Construction/inspection pending.
3252-1079	City of Encinitas - Leucadia Blvd & Hygeia Roundabout	Public Street Improvement	In-Review
3252-1104	City of Encinitas - N Coast Highway 101 Streetscape Pedestrian Crossing	City CIP Project	Plans signed. Project complete.
3252-1108	Segovia Way Pavement Project	City CIP Project	In-review.
3252-1109	Lagasse Annexation - 395 Sunset Drive	Annexation with Public Sewer Improvement	In-review. Waiting on plug plan.
3252-1111	Marea Village 1900 & 1950 N Coast Hwy 101	Development with Sewer Connection.	Preliminary sewer study approved. Waiting on plan submittal.
3252-1114	1143 Eolus Avenue Public Sewer Improvement Plan	Public Sewer Improvement	In-review.
3252-1115	555 & 571 North Vulcan	Public Sewer Improvement	In-review.
3252-1118	Salon World	Tenant Improvement	In-review.
3252-1119	Harumama 1460 Encinitas Blvd.	Tenant Improvement	In-review.
3252-1121	MRKT Space 774 & 782 N. Coast Highway 101	Tenant Improvement	In-review