Ref: 26-9579

AGENDA

ENGINEERING COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT
Wednesday, June 3, 2026 – 1:00 p.m.
1960 La Costa Avenue, Carlsbad, CA 92009

Join: https://teams.microsoft.com/meet/239089885910343?p=VTJS9W1tClwlWmu03n
Meeting ID: 239 089 885 910 343
Passcode: 6Mf3hr3R

1. **Call to Order**
   Teleconference with President Brown at the following location:
   Moulton Niguel Water District
   26161 Gordon Road
   Laguna Hills, CA 92653

   Teleconference with Director Roesink at the following location:
   7509 Solano Street
   Carlsbad, CA 92009

2. **Roll Call**

3. **Public Comment**

4. **ADS Environmental Services Agreement for Flow Monitoring Services**
   Authorize the General Manager to execute a sole source five-year professional services agreement with ADS Environmental Services for sewer flow monitoring services for a cost not to exceed $320,520. (Pages 2-7)

5. **Information Items**
   None.

6. **Directors' Comments**

7. **General Manager's Comments**

8. **Adjournment**

Ref: 26-9577

MEMORANDUM

DATE: May 28, 2026

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 (EC) recommend that the Board of Directors:

1. Authorize the General Manager to execute a sole source five-year professional services agreement with ADS Environmental Services (ADS) for sewer flow monitoring services for a cost not to exceed $320,520.00.
2. Discuss and take other action as appropriate.

BACKGROUND:

The Leucadia Wastewater District (LWD or District) has utilized ADS for sewer flow monitoring services since 2009. ADS flow meters have proven to be a reliable and effective tool for monitoring wastewater flows, evaluating storm impacts, supporting engineering and planning efforts, and providing early warnings for potential wastewater spills.

The Board of Directors last approved a five-year agreement with ADS in 2021. The current agreement expires on **June 30, 2026**, making it necessary to renew the contract to ensure continued monitoring and data collection services for the District's collection system. The five meters are installed at the following locations:

Meter No.	Location
L1	Highway 101 (near La Costa Avenue intersection)
L4	La Costa Golf Course access road (just to south of District Headquarters)
L5	District's Shopping Center
L6	Saxony Pump Station (Clamp-on flow meter)
L8	Leucadia Pump Station

DISCUSSION:

ADS has submitted a proposal to provide comprehensive sewer flow monitoring services for a five-year term from **July 1, 2026 through June 30, 2031**. Services include providing and operating ADS Triton+™ flow meters, routine diagnostics and maintenance, annual hydraulic confirmations, continuous data collection and analysis, monthly reporting through ADS Prism® software, and real-time alarming capabilities.

ADS provides specialized equipment, proprietary software, and consistent historical flow data that are critical for operational response, regulatory compliance, and engineering planning. Continuity of service is essential to maintain data integrity and effective system monitoring.

The proposed agreement is structured with a three percent annual increase beginning after the first year. The annualized breakdown is as follows:

Contract Year	Annual Cost
Year 1	$60,408
Year 2	$62,196
Year 3	$64,044
Year 4	$65,952
Year 5	$67,920
5 Year Total	**$320,520**

Staff believes that the pricing is fair and reasonable and, given the proprietary nature of the ADS System and their positive work experience with LWD, staff recommends sole source approval of the agreement.

FISCAL IMPACT:

The proposed FY27 budget includes sufficient funding for flow monitoring services. Staff plans to propose sufficient funding in subsequent budget years.

Attachment

mg:PJB

ATTACHMENT A

Scope of Work

ADS Environmental Services ("ADS") will perform turn-key sewer flow monitoring services at five (5) locations for the Leucadia Wastewater District ("District") in the City of Carlsbad, California. The objective of this project is to deliver highly reliable and accurate sewer flow data for the term of this contract. The work will be performed as set forth below:

1.0 Mobilization

ADS will utilize the ADS® Model Triton+™ flow monitor during the course of this project. This is a multiple technology monitor that is flexible enough to collect data from almost every available sensor technology that is used in wastewater applications today. The Triton+ monitor will be equipped with wireless communication which will allow for remote collection and review of all data. The ADS Triton+ Flow meters are certified under IECEx (International Electrotechnical Commission Explosion Proof) Intrinsic Safety standards for use in Zone 0/Class I, Div. 1, Groups C&D rated hazardous areas.

2.0 Comprehensive Service

ADS will provide professional services to maintain and operate the flow monitoring equipment for five (5) years (July 1, 2026 through June 30, 2031). As part of this Comprehensive Service Program, ADS will perform the following services:

1) **Diagnostics:** Remote diagnostic inspection of all equipment using the most current procedures and programs from its facilities in San Diego, CA. or other service locations.

   Repair: Repair and preventative maintenance services, including battery replacement (assuming a 15-minute sample rate), necessary to keep the equipment operating in accordance with the manufacturer's design specifications. ADS will respond to a malfunction within two (2) business days and perform repairs or temporary repairs within (2) business days thereafter. The types of conditions to be repaired and repair services to be performed under this Agreement include but are not limited to the following:

   a) Communication link failure – including control boards, modem, and modem interface;
   b) Area-Velocity (A/V) sensor replacement – An A/V sensor shall be replaced if either the ultrasonic or if velocity readings are a constant value or zero, indicating a loss of sensitivity,

c) Battery replacement - Battery voltages shall be considered as being low when the voltage is less than 7.0 VDC;

d) Sensor scrubbing; and

2) **Hydraulic Confirmations:** ADS will perform annual field confirmations according to ADS's current internal quality procedures for all of the ADS Triton+ flow monitors including:
   a) Verification of the depth of flow measurement;
   b) Verification of the velocity measurement;
   c) Manual field flow to monitor flow comparison;
   d) Pipe condition assessment; and
   e) Statement of confirmation with the exception of the closed pipe flow meters,

3) **Service Schedule:** The field service shall occur during the normal operating hours of 8:00 a.m. to 12:00 noon and 1:00 p.m. to 5:00 p.m. Monday through Friday (excluding holidays).

4) **Service Statement:** ADS shall prepare a statement of repair whenever service or site visits are performed. These forms will be made available to the District when requested.

5) **Primary Contact:** ADS shall designate a field service representative who shall be the primary contact with the District for the resolution of field problems.

3.0 Data Analysis, Alarming, and Reporting Services Performed

Data services will be conducted by trained Data Analysts and utilize ADS Prism® software, as well as Six Sigma quality assurance procedures to maximize data usability and ensure data up-time.

1) **Data Collection and Diagnosis:** Raw data will be uploaded from the flow monitors every twenty-four (24) hours to the Prism™ cloud-based system. ADS data analysts will review the data (e.g. bi-weekly) to verify that equipment is in working order and will dispatch ADS field crews to perform equipment repair or hydraulic confirmations as needed.

2) **Data Editing and Analysis:** A trained ADS data analyst will use ADS software to directly calculate flow using the continuity equation from recorded depth and average velocity data. Flow quantities as determined by the continuity equation will be plotted. The analyst will also utilize scatter plots (depth vs. velocity readings) and field hydraulic confirmation both to verify monitor accuracy.

3) **Data Reporting:** The Final flow data will be reported to the District on a monthly basis via our PRISM™ website no later than thirty (30) days after the end of the monthly monitoring period and will include the following.

   a) Key manhole identification, pipe diameter, pipe shape, and silt levels;
   b) Days of the week constituting the long table, up to seven (7) days;
   c) Depth of flow in fifteen (15) minute intervals from 0:00 to 23:45;
   d) Average Velocity in fifteen (15) minute increments in feet per second (fps);
   e) Flows calculated in fifteen (15) minute increments in millions of gallons per day (mgd);
   f) Minimum and maximum flows with time of occurrence measured daily in millions of gallons per day (mgd);
   g) Average weekly flow measured in millions of gallons per day (mgd);
   h) Daily and weekly flow totals in millions of gallons.

4) **Data Alarming:** The Prism™ cloud based software will send out real-time alarms (via text or emails) if any set triggers are reached at the individual flow monitors. Alarm triggers can be set for High Depth and Low Flow.

4.0 Exclusions

1) Civil Engineer's Stamp on any plans submitted for permitting;
2) Work conducted outside of Service Schedule;
3) ADS is not responsible for repair of the Districts owned Mag Mater;
4) Changes or alterations in specifications;
5) Painting, refinishing or furnishing materials therefore except as damaged by ADS during service work;
6) Installation, moving, or removing of equipment unless required as part of the repair process;
7) Repairs made necessary due to the negligence of the District, its employees, agents, invitees, or contractors;
8) Repairs made necessary due to attempts by the District to repair or maintain the equipment unless authorized by ADS;
9) Maintenance and repair necessary to put equipment not under the comprehensive scheduled service contract in good repair;
10) Equipment repair or replacement outside manufacturer's design specifications when knowingly directed by the District; and
11) Repairs made necessary due to events beyond ADS's control (force majeure).

5.0 District Responsibilities

1) Access to the site of work with sufficient area for placement of personnel and equipment, including all right-of-way and ramps, if required. This includes, but is not limited to, exposing manholes, clearing easements and/or constructing roads or ramps suitable for truck/van, if necessary.
2) Pay all local licenses and permits fees, if required;
3) Assist in obtaining and complying with any special permits;
4) Ensure that selected sites have been jet cleaned to minimize hydraulic deficiencies; and
5) Provide any information concerning bypasses, overflows, base flows, critical surcharge areas, and maintenance habits.

Three-Year Service Period
July 1, 2026- June 30, 2031

Monthly Field Services, Analysis and Prism Reporting Costs:

Item	QTY	Description	Monthly Unit Cost	Yearly Extended Cost
1	3	Sites 1-3 - Gravity Area Velocity Flow Meters. Includes Prism Software Per/Month/Meter (Year 1)	$ 1,108.00	$ 39,888.00
2	2	Sites 4 & 5 - Pump Station Flow Meters. Includes Prism Software (Year 1)	$ 855.00	$ 20,520.00
		1st. Year Contract Value:		$ 60,408.00
		2nd. Year Contract Value:		$ 62,196.00
		3rd. Year Contract Value:		$ 64,044.00
		4th. Year Contract Value:		$ 65,952.00
		5th. Year Contract Value:		$ 67,920.00
		2026-2031 Total Contract Value:		**$ 320,520.00**

* = 3% increase to unit prices for years 2, 3, 4, and 5

Any applicable Federal, state, or local taxes are not included; Prevailing Wage applies.

Acceptance of this proposal for the purchase of ADS Products and Services constitutes your and/or your company's agreement to ADS' Standard Terms and Conditions of Sale found at https://www.adsenv.com/sites/default/files/documentation/ADS-Equipment-and-Services-Combined-Terms-and-Conditions.pdf.