



Board of Directors:

SUSIE KOESTERER, President
ELLEN SPIEGEL, Vice President
KRISTINA BREWER, Director
MARCIA MARCUS, Director
BOB NAST, Director

AKBAR ALIKHAN
General Manager

353 Santa Monica Drive · Channel Islands Beach, CA · 93035-4473 · (805) 985-6021 · FAX (805) 985-7156
A PUBLIC ENTITY SERVING CHANNEL ISLANDS BEACHES AND HARBOR · CIBCS.D.COM

BOARD OF DIRECTORS SPECIAL BOARD MEETING NOTICE & AGENDA

NOTICE IS HEREBY GIVEN that the Board of Directors of the Channel Islands Beach Community Services District will hold a Special Meeting beginning at 1:30 PM on Monday, January 29, 2018. The Meeting will be held at the **District Office Conference Room, 353 Santa Monica Drive, Channel Islands Beach, CA 93035.** The Agenda is as follows:

A. CALL TO ORDER, ROLL CALL, PLEDGE OF ALLEGIANCE:

B. PUBLIC COMMENTS: Opportunity for members of the public to address the Board on matters under the purview of the District and which are not on the agenda. (Time limit 3 minutes per speaker)

C. CONSENT CALENDAR:

1. Approve the Agenda Order

D. ACTION CALENDAR:

1. Authorization to Purchase Smart Cover Devices

Recommendation:

- 1) Authorize reallocation of \$60,000 from Sewer Capital Replacement Fund – Reserves (Account #4280) to Capital Purchases (Account #5300)
- 2) Authorize General Manager to enter into purchase agreement with Plumber's Depot Inc. for a not-to-exceed amount of \$40,000

E. INFORMATION CALENDAR:

NONE

F. BOARD MEMBER COMMENTS:

G. GENERAL COUNSEL & GENERAL MANAGER COMMENTS:

AGENDA POSTING CERTIFICATION

This agenda was posted Friday, January 26, 2018 by 5:00 PM. The agenda is posted at the District Office and two public notice bulletin boards, which are accessible 24 hours per day. The locations include:

- Hollywood Beach School, 4000 Sunset
- Corner Store, 2425 Roosevelt Blvd.
- District Office, 353 Santa Monica Drive

Agendas are also posted on the District's website at www.cibcsd.com.



Akbar Alikhan
General Manager

REQUESTS FOR DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, IN ORDER TO ATTEND OR PARTICIPATE IN A MEETING, SHOULD BE MADE TO THE SECRETARY OF THE BOARD IN ADVANCE OF THE MEETING TO ENSURE THE AVAILABILITY OF REQUESTED SERVICE OR ACCOMODATION. NOTICES, AGENDAS AND PUBLIC DOCUMENTS RELATED TO THE BOARD MEETINGS CAN BE MADE AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST.



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Special Board Meeting, January 29, 2018

To: Board of Directors
From: Akbar Alikhan, *General Manager*
Subject: Authorization to Purchase Smart Cover Devices
Item No. D-1

RECOMMENDATION:

1. Authorize reallocation of \$60,000 from Sewer Capital Replacement Fund – Reserves (Account #4280) to Capital Purchases (Account #5300).
2. Authorize General Manager to enter into purchase agreement with Plumber's Depot Inc. for a not-to-exceed amount of \$40,000.

FINANCIAL IMPACT: Appropriation of \$60,000 from the Sewer Capital Replacement Fund Reserves to the Capital Replacement Fund.

BACKGROUND:

Staff performs routine maintenance and inspection of the sewer system, including frequent monitoring of the District's three sewer pump stations and four sewer lift stations. New technologies are available that can improve the operation and monitoring of the sewer system. One such technology is the Smart Cover.

The Smart Cover System is a web-based smart technology that provides real-time remote sewer overflow monitoring via a reliable satellite communication system. Smart Cover units are installed on the underside of existing manhole covers and can be moved to various locations as monitoring needs change. In addition, the Smart Cover provides real-time security intrusion detection and monitoring of sewage levels in manholes. The Smart Cover systems are proven and will be an asset to the District by preventing Sanitary Sewer Overflows (SSOs), improving response times, and enhancing customer service to our customers.

DISCUSSION:

Over the last two weeks, the District has experienced two sewage back-ups related to the failure to communicate sewer lift station alarms. These incidents caused wastewater to surcharge in the system to the near point of a sewer spill without notification to on-call staff. While staff diagnoses and repairs the communication issues with the sewer pump and lift stations, it is imperative that an alternative notification system is installed to alert staff of sewer issues. Furthermore, the Smart Cover Devices will provide long-term value to the District even after the District makes a full

transition to a modernized supervisory control and data acquisition (SCADA) system, by acting as a backup notification system.

Staff recommends the installation of seven Smart Cover devices upstream of our wastewater lift stations and wastewater pump stations to serve as a secondary source of notification. The Smart Cover Devices will allow staff to monitor, in real-time, the levels of sewer lines. In the event of a communication failure at a sewer pump or lift station, the Smart Cover Device would register a high level in the sewer line and notify staff with ample time to respond.

The cost of the seven Smart Cover Devices is \$34,101, which requires an appropriation from the Sewer Capital Replacement Fund to the Capital Purchases Account. Staff is requesting an appropriation of \$60,000 to allow for further capital expenditures in the current fiscal year. The table below summarizes the new balances for each account, if approved.

Budgeted FY 2017-2018	
Sewer Capital Replacement Fund (Reserves)	\$435,597
Capital Purchases	\$28,000
Adjusted FY 2017-2018	
Sewer Capital Replacement Fund (Reserves)	\$375,597
Capital Purchases	\$88,000

To date, approximately \$6,000 has been expended from the Capital Purchases Account during FY 2017-2018, with a remaining balance of \$22,000. The table below summarizes the remaining balance of the Capital Purchases Account, if approved.

Budgeted Amount	\$28,000
Expended to date	6,000
Current Balance	\$22,000
Appropriation from Reserves	\$60,000
Procurement of Smart Cover Devices	\$40,000
Remaining Balance for FY 2017-2018	\$42,000

ATTACHMENT(S): Plumber's Depot Inc. Procurement Quote & Sole Source Letter



1/26/18

Pete Martinez
Channel Islands Beach CSD
353 Santa Monica
Channel Islands Beach, CA 93035

This letter is to provide notification that Hadronex, Inc. (doing business as **SmartCover® Systems™**) herein known as “Company” with corporate offices located at 2067 Wineridge Place, Suite E, Escondido, CA 92029, is the creator, manufacturer and marketer of systems and products, including the award winning *SmartCover®*, *SmartFLOE™*, *SmartTrend®*, *SmartRain™* and *SmartTide™* systems.

The *SmartCover®* and *SmartFLOE™* systems are **patented and proprietary** systems designed and manufactured by Company and provide users with unique qualities and functions to acquire water level and/or flow data below the manhole cover or lift station lid, or other structures with open channel flows, using ultrasonic technology. The system acquires and transmits data through a satellite network and provides 24/7 user access via a secure web browser and through a dedicated, secure user website.

Company systems distinctively provide real-time, continuous monitoring capability operated by an engineered and proprietary long-life, lithium thionyl chloride battery pack. It *uniquely* communicates by an embedded digital radio through the Iridium Satellite System assuring global, redundant coverage.

Users acquire trend data via the proprietary *SmartTrend™* analysis software tool that issues predictive “Advisories” on developing trends, “Alarms” for surcharges and intrusions, and maintenance “Alerts” that monitor specific operational parameters system. All notifications provide information and resources that improve sewer intelligence and enable effective, informed decision-making for corrective action.

All systems are enabled to accept local rain data via the patent pending *SmartRain™* data service where users are presented a “multigraph view” for fast and easy comparison of the *SmartCover®* (level) or *SmartFLOE™* (flow) data with rain data.

Company *solely provides* ongoing professional services for management and security of data, software maintenance and upgrades, the user website interface, and the Iridium Satellite communications system. These essential services directly enable users to have seamless and ongoing access to real-time data from remote locations.

Company systems are protected by the following US Patents 7,292,143, 7,948,215, 7,944,352, 7,598,858, 7,589,630, 8,607,654, and 9,297,684. The product is also protected by registered trademarks and international patents. Company also has a Madrid Treaty filing for its main trademark. We hope this information will satisfy your requirements and that it clearly demonstrates the special, patented and proprietary features of our systems.

Sincerely,

Jay Boyd
Senior Vice President
jboyd@smartcoversystems.com

PLUMBERS DEPOT INC.

3921 W. 139th Street
 Hawthorne, CA 90250
 Phone: (866) 422-2156
 Fax: (310) 355-1711

Quote

Date	Estimate #
1/19/2018	19313

Name / Address
Channel Island Beach Community Sr. Dist 353 Santa Monica Drive Channel Island Beach, CA 93035

Ship To
Channel Island Beach Community Sr. Dist 353 Santa Monica Drive Channel Island Beach, CA 93035

Item	Description	Qty	Rep		Serial #	
			Price	Total		
SMAT-01SAT	Standard Smart Cover Unit With Battery Pack (SAT)	7	3,985.00	27,895.00T		
DISCT%	Discount Applied %		-5.00%	-1,394.75		
SMART-03	Smart Cover Mounting & Installation Install Units on Manhole Cover Install Antenna on Manhole Cover Set Water Level Cable Length	7	300.00	2,100.00		
SMART-04	ASM-SC1 Service, Yearly Monitoring Service	7	364.00	2,548.00		
SMART-02	Smart Cover Service Set Up and Training (One Time Charge)Initial set-up. Communication protocol, install locations, secure customer website; user interface training.	1	899.00	899.00		
	units in stock**					

Quote good for 30 Days.	Subtotal	\$32,047.25
	Sales Tax (7.75%)	\$2,053.77
	Total	\$34,101.02

Signature and Na... _____

Fax #
(310)355-1711



Authorization to Purchase (7) Smart Cover Devices

JANUARY 29, 2018– SPECIAL BOARD MEETING

PETE MARTINEZ, DEPUTY GM / OPERATIONS MGR
01/29/2018

1

Background



- Channel Islands Beach CSD wastewater system
 - 4 sewer lift stations
 - 3 sewer pump stations
 - 1800 sewer service connections
 - 18.1 miles of sanitary pipelines
 - 2.3 miles of sewer force mains

01/29/2018

2

Alarm Communication Method

- Programmable Logic Controller (PLC)
 - Controls the motor/pump controls at the lift stations
 - Responsible for relaying alarm to third party (Dial Security)
 - Dial Security will contact operations on-call staff
 - Currently do not have an active SCADA system

01/29/2018

3

Recent Issues

- | | |
|---|---|
| <ul style="list-style-type: none"> • Incident 1 (Hueneme Station) <ul style="list-style-type: none"> • PLC faulted • Shut down operation of lift station • Sent alarm to Dial Security • Dial Security failed to relay the alarm to staff • Resident called the office to report drainage issues • Staff encountered lift station in non-operating state • Pumped station down on hand | <ul style="list-style-type: none"> • Incident 2 (Hueneme Station) <ul style="list-style-type: none"> • PLC faulted • Shut down operation of lift station • No alarm was sent to Dial Security • Resident contacted office • Staff found manholes to be 1 foot from spilling • Lift station was not operating • Pumped down in hand |
|---|---|

01/29/2018

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Potential Solution

HANNEL ISLANDS BEACH
COMMUNITY SERVICES DISTRICT

- 24/7 Data Acquisition
- Patented Automated Trending Analysis
- Iridium Satellite Network
- Battery Powered
- Cloud Based / Website Access
- Tilt / Intrusion Alarms
- **No Confined Space Entry**




01/29/2018 5

Lift Station Backup

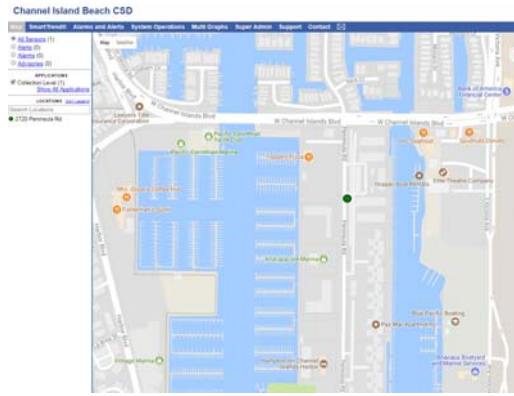
HANNEL ISLANDS BEACH
COMMUNITY SERVICES DISTRICT

- Battery Powered (**Off the Grid**)
- Iridium Satellite (Cellular Overloads & Goes Down)
- **Back-Up Your Back-Up** (SCADA)
 - Pump Failure
 - Partial Failure
 - Accident



01/29/2018 6

H Station



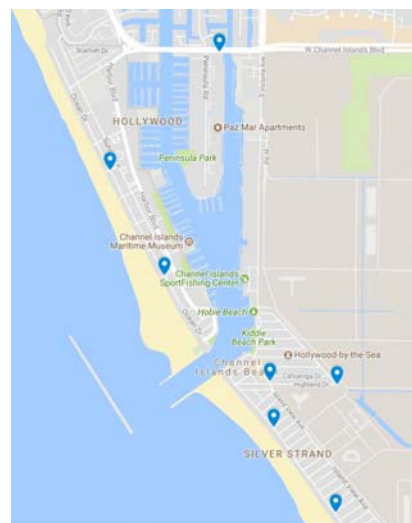
01/29/2018

7

Smart Cover Install Locations



- H Station
- B Station
- Los Robles Station
- A Station
- Panama Station
- Hueneme Station
- Hollywood Station



01/29/2018

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Budget

Budgeted FY 2017-2018	
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*Appropriation of
\$60,000 from Sewer
Capital Reserves*

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*Remaining Balance in
Capital Purchases
Account*