

**TEJON-CASTAC WATER DISTRICT (TCWD)  
5665 Santa Elena Drive, Arvin, CA 93203**

Mailing Address  
P.O. Box 478,  
Lebec, CA 93243

Telephone: (661) 248-3000  
Facsimile: (661) 248-3100

**Regular Meeting of the Board of Directors of Tejon-Castac Water District  
June 14, 2022 – 9:00 a.m.; On-Line Only**

Join Zoom Meeting

<https://us06web.zoom.us/j/84731278369?pwd=Q3BHY0RWa2RuMWRkN0tacGtyanZVZz09>

Meeting ID: 847 3127 8369

Passcode: 756755

One tap mobile

+1(669)900-6833

**AGENDA**

- 1) Roll Call**
- 2) Review and Adopt Resolution 2022-03; Initially Authorizing Remote Teleconference Meetings Under AB361**
- 3) Approval of Minutes for the Regular Meeting of April 5, 2022, Special Board Meeting of April 13, 2022, and Special Board Meeting of April 21, 2022**
- 4) Presentation Regarding the South of Kern River GSP – Action Required**
- 5) Presentation Regarding Electronic Meter Proposal**
- 6) Reports & Updates (Review and possibly action on):**
  - A. Facility Reports
  - B. Operations
  - C. SGMA Update
  - D. Financials
    - a) Review and Approval of the 2022-2023 Budget – Action Required

**7) Public Input**

Members of the public may address the Board on matters within the TCWD's jurisdiction, which is not on this agenda, at this time (As required by Gov. Code § 54954.3(a)). However, any such non-agenda matter that requires action will be referred to District staff or a report and action at a subsequent Board meeting.

**8) Adjourn**

**AMERICANS WITH DISABILITIES ACT  
(Government Code Section 54953.2)**

A person with a qualifying disability under the Americans with Disabilities Act of 1990 may request the District to provide disability-related modification or accommodation in order to participate in any public meeting of the Tejon-Castac Water District. Such assistance includes appropriate alternative formats for the agendas and agenda packets. Requests should be made in person, by telephone, facsimile and/or written correspondence to the Districts office, at least 72 hours before a regular public District Meeting.

**TEJON-CASTAC WATER DISTRICT**

**RESOLUTION 2022-03**

**RESOLUTION INITIALLY AUTHORIZING REMOTE  
TELECONFERENCE MEETINGS UNDER AB361**

WHEREAS, meetings of the Board of Directors (“Board”) of Tejon-Castac Water District (“District”) and its committees are open and public, as required by the Ralph M. Brown Act (Cal. Gov. Code 54950 – 54963), so that any member of the public may attend, participate, and watch the District’s legislative bodies conduct their business;

WHEREAS, Government Code section 54953(e), as amended by Assembly Bill 361 (2021) (“AB361”), signed by the Governor on September 16, 2021, provides for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, the District wishes to invoke the provisions of AB361 to authorize teleconference meetings subject to the modified standard of Government Code section 54953(e);

NOW, THEREFORE, BE IT RESOLVED that:

Section 1. Findings. The Board hereby finds as follows:

- (a) As required by Government Code section 54953(e)(1), a proclaimed state of emergency exists under the California Emergency Services Act, as declared by the Governor on March 4, 2020.
- (b) As a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.

Section 2. Procedures for Teleconference Meetings. The District and its committees shall hold teleconference meetings pursuant to the requirements of Government Code section 54953(e).

Section 3. Effective Date. This resolution shall take effect immediately upon its adoption.

**[This Space Left Intentionally Blank]**

Section 4. Renewal. Pursuant to Government Code section 54953(e)(3), the District will reconsider the state of emergency every 30 days.

PASSED AND ADOPTED by the Board of Directors of Tejon-Castac Water District on June 14, 2022, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

ATTEST:

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Angelica Martin, Secretary of the Board

**TEJON-CASTAC WATER DISTRICT (TCWD)**  
**5665 Santa Elena Drive, Arvin, CA 93203**  
**MINUTES**  
**OF THE REGULAR BOARD OF DIRECTORS MEETING**

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Date of Meeting: Tuesday, April 5, 2022

Place of Meeting: 5665 Santa Elena Dr., Arvin, CA 93203

**DIRECTORS PRESENT:** Mark Fanucchi, Dennis Atkinson, George Cappello, and Jeff Mettler

**DIRECTORS ABSENT:** Mark Valpredo.

**OTHERS PRESENT:** Kenny Watkins, Allen Lyda, Robert Velasquez, Ben Mitchell, Alan Doud

Meeting commenced at 1:30 p.m.

Tom McCarthy of the Kern County Water Agency provided a presentation regarding the Delta Conveyance Project and advised the Board that it would need to decide whether to continue to participate in the DCP for the ensuing 2-year planning period. Mr. McCarthy advised that there would be no changes to the schedule or scope of the DCP, and that the District's total share of the costs for planning remain unchanged at approximately \$443,000. Mr. McCarthy responded to questions and concluded his report.

Kenny Watkins provided the facilities report, and spoke specifically to Blue Beacon's restored ponds and ongoing development at TRCC.

Ben Mitchell with PERC confirmed that operations were as expected and he had nothing further to report.

Allen Lyda as TCWD's appointee to the White Wolf GSA Board provided an update on SGMA, including on the White Wolf GSA grant application under the land repurposing program.

Robert Velasquez provided the financial report and confirmed that the District maintained a healthy cash position.

There were no public comments.

The Board met in closed session to discuss two matters of existing litigation and one matter of potential litigation.

There was no action taken in closed session.

The meeting was adjourned at 2:25 p.m.

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Angelica Martin, Secretary, Tejon-Castac Water District

Approved by: Tejon-Castac Water District Board of Directors      Dated: June 14, 2022

**TEJON-CASTAC WATER DISTRICT (TCWD)**  
**5665 Santa Elena Drive, Arvin, CA 93203**  
**MINUTES**  
**OF THE SPECIAL BOARD OF DIRECTORS MEETING**

---

Date of Meeting: Wednesday, April 13, 2022

**Place of Meeting: On-line only**

**DIRECTORS PRESENT:** Mark Fanucchi, Dennis Atkinson, George Cappello, Jeff Mettler, and Mark Valpredo.

**DIRECTORS ABSENT:** None

Meeting commenced at 12:03 p.m.

There was no sign-in sheet because the meeting was remote. No members of the public at the meeting identified themselves. Angelica Martin was present.

On motion by Director Fanucchi, seconded by Director Mettler, draft minutes of the Regular Board Meeting of October 12, 2021 were approved unanimously by roll-call vote.

Next item was the DCP Planning & Design Continued Funding, Final Amendment No. 1. On motion by Director Cappello, seconded by Director Valpredo, the board approved unanimously to sign the document, by roll call vote.

The third action item was the approval of resolution 2022-01 Authorizing the District to Act as a Contracting Party on Behalf of the White Wolf GSA Multibenefit Land Repurposing Program Grant Agreement. On motion by Director Valpredo, seconded by Director Cappello, the board approved Resolution 2022-01 unanimously by roll-call vote.

There were no public comments.

There was no closed session.

The meeting was adjourned at 12:13 p.m.

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Angelica Martin, Secretary, Tejon-Castac Water District

Approved by: Tejon-Castac Water District Board of Directors      Dated: June 14, 2022

**TEJON-CASTAC WATER DISTRICT (TCWD)**  
**5665 Santa Elena Drive, Arvin, CA 93203**  
**MINUTES**  
**OF THE SPECIAL BOARD OF DIRECTORS MEETING**

---

Date of Meeting: Thursday, April 21, 2022

**Place of Meeting: On-line only**

**DIRECTORS PRESENT:** Dennis Atkinson, George Cappello, Jeff Mettler, and Mark Valpredo.

**DIRECTORS ABSENT:** Mark Fanucchi

Meeting commenced at 11:02 a.m.

There was no sign-in sheet because the meeting was remote. No members of the public at the meeting identified themselves. Angelica Martin was present.

Resolution 2022-02 was presented, to allow remote teleconference meetings pursuant AB361. On motion by Director Valpredo, seconded by Director Cappello, Resolution 2022-02 was unanimously approved by roll-call vote.

The meeting adjourned to closed session at 11:04 a.m.:

Conference with Legal Counsel—Potential Litigation (Govt. Code Section 54956.9(b)):  
*(one item)*

There were no items to report from closed session.

Ms Martin presented item four of the agenda. After a brief discussion, the Director's agreed that the best option for the District was to separate from the KGAGSA and operate as a single GSA with a single GSP in conjunction with the Arvin-Edison WSD GSA, and Wheeler-Ridge Maricopa WSD GSA, thus forming the South of the Kern River GSA. On motion by Director Mettler, seconded by Director Cappello, the action was unanimously approved by roll-call vote.

There were no public comments.

The meeting was adjourned at 11:24 p.m.

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Angelica Martin, Secretary, Tejon-Castac Water District

Approved by: Tejon-Castac Water District Board of Directors      Dated: June 14, 2022

Subeca AMI and  
the Future of the  
Smart Utility

TEJON-CASTAC  
WATER  
DISTRICT

 **subeca**  
Genius Water Management

Powered by  IoT Core for LoRaWAN



# Introductions: Subeca Team



- **Don Whitson, Subeca CEO**
  - Chairman of Reno Subsystems (Intel Capital, Samsung Venture, Hitachi, LAM)
  - Chairman of Authentix (Carlyle Group)
  - Principal Noblemen Group (Boutique M&A)
  - Vice Chairman of Tylan General (NASDAQ)
  - Sales, GM, President, CEO of Span Instruments
- **Hank McCarrick, Chief Strategy Officer**
  - 10 years semiconductor engineering
  - 25 years developing new technologies.
  - Holds 12 patents in various technologies
- **John Soulliere, Director of Water Utilities**
  - Nearly 25 years in the Water Industry
  - Deputy City Manager, Interim City Manager
  - CEO of a regional public private partnership



# Presentation Outline

1. Subeca and its mission
2. The Subeca approach: Think Outside The Meter Box™
3. Subeca's Dual Network
4. The Subeca Engage™ Platforms
5. Installation process
6. Summary
7. Additional questions/discussion

# Subeca

- Sunny Beaches of California
- A California Water resource Technology company based out of San Diego, CA
- Product assembly done in Dallas, Texas
- Software and web services done in Woodland Hills, CA





Provide a **holistic** water management platform that enables water utilities and their customers to become **partners** in water use efficiency and **sustainability**.

---

Subeca Mission

# The Subeca Approach

Think Outside The Meter Box™



# The Subeca Approach

Think outside the  
meter box™

1. Subeca believes that the future of water management is about consumer and agency empowerment through technology.
2. Subeca designed the Engage™ Platform to manage metering as well as enhance total agency operations.
3. Subeca's believes it is not necessary to sacrifice the value of existing meters for an agency to enjoy the benefits of advanced metering and IoT technologies.
4. Subeca's believes that a significant investment in AMI technology should get an agency more than a single function metering application.
5. The Subeca Engage™ Platform was built for value and scalability for holistic water management.
6. Unlike most, Subeca includes a consumer and agency interface.



# The Subeca Approach:

- Pin<sup>®</sup> (“smart” register)
  - Retrofit any meter in minutes to extend useful life.
  - Instantly convert an analog meter into a smart meter
  - Ensures continuity of meters of varying brands (you can buy what you want in the future)
  - Communicates securely via BLE5 in the Edge network environment every 900 milliseconds
  - Communicates through the Link to the LoRa Network and Engage™ Platforms
  - Built to AWWA specifications and subjected to “killer” testing for performance.





# The Subeca Approach:

- Link®
  - Transmits and receives information via the LoRa Network
  - Can deliver commands to IoT devices such as the Subeca ACT Valve
  - Interacts with additional IoT devices and sensors at a property or in the water system.
  - Can deliver consumer “authorized” IoT device data to the water utility (irrigation, valves, etc.)
  - Mounts discretely in modified meter box lid





# Subeca ACT™ Valve

- Wireless automated valve.
- Drops into the meter box or anywhere on property.
- Can be controlled from anywhere upon notification of a leak.
- Automated response capable.
- Excellent for rebate or as part of original construction.
- Consumers can have a tool to not only know about a problem, but to also ACT.



# Subeca Dual Network Approach



# “Smart” City/Agency

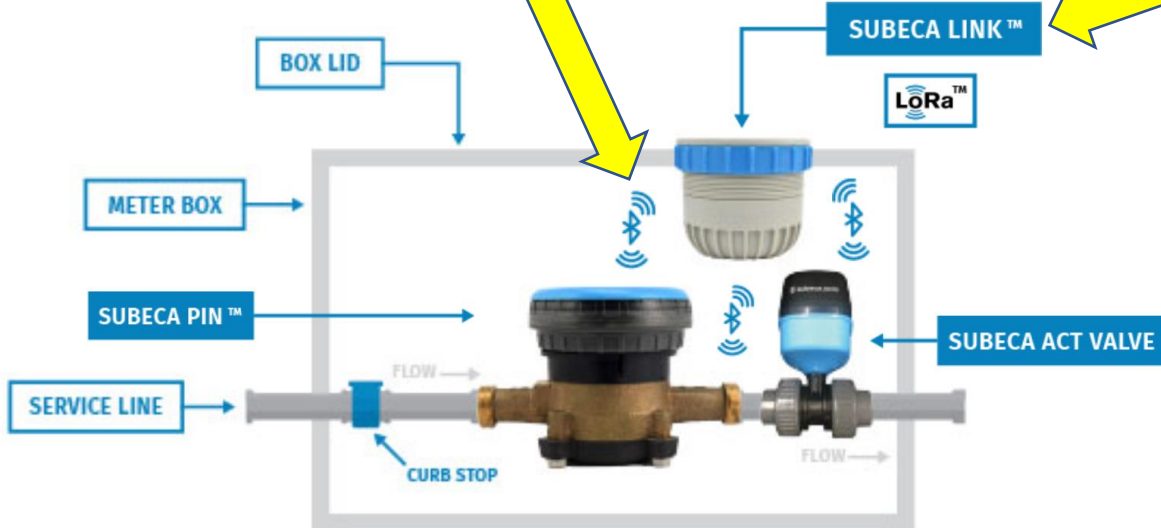
A smart city/agency uses information and communication technology (ICT) to improve operational efficiency, share information with the public and provide a better quality of government service and citizen welfare.



# Subeca Dual-Network Approach

Edge network via Bluetooth<sup>5</sup>

Realtime data to agency and consumer smart device (cell phone)





# LoRaWAN – The Preferred Wireless Network

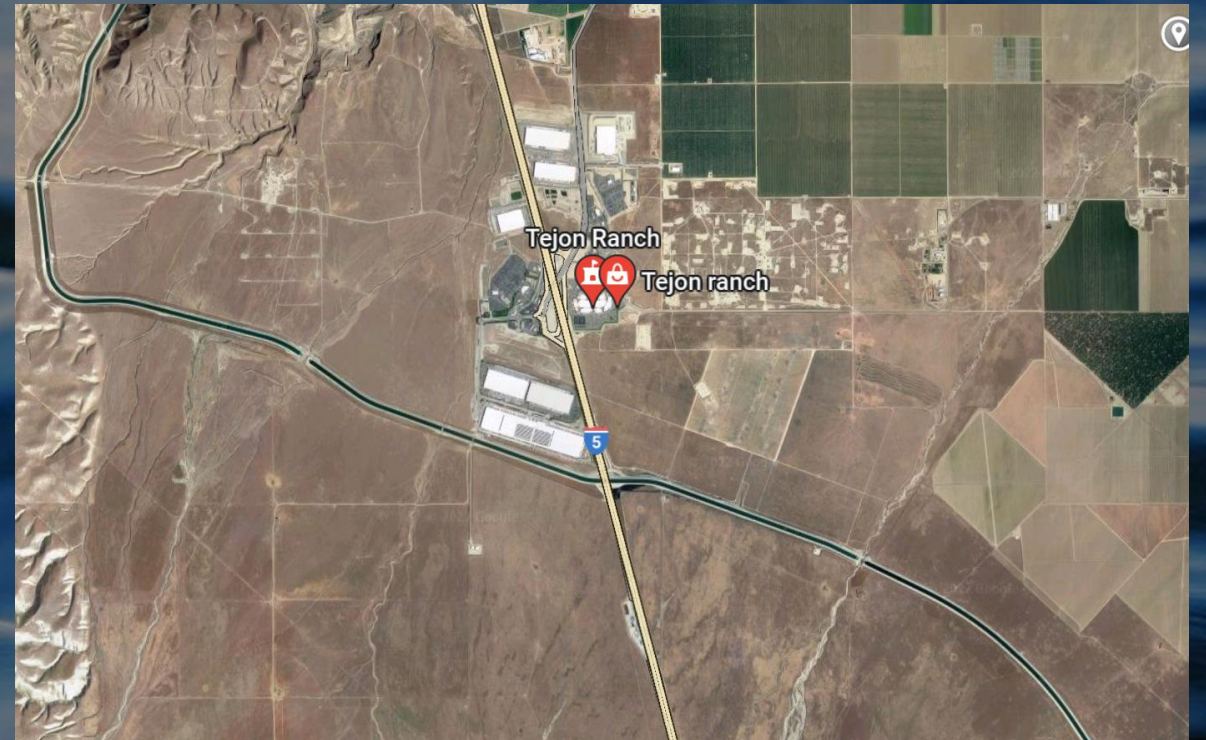
- LoRaWAN = Long Range Wide Area Network
- The LoRaWAN<sup>®</sup> specification is a Low Power, Wide Area (LPWA) networking protocol designed to wirelessly connect **battery operated ‘things’** to the internet
- LoRa is an open global standard for wireless communications.
- Subeca built its platform to integrate with the global IoT standard, not just to perform the AMI function.
- For water utilities: water quality, system pressure, hydrant location, utility meters, flow sensors, irrigation, valves, etc.
- Provides excellent coverage in challenging terrain

[lora-alliance.org](http://lora-alliance.org)





# LoRa Coverage Map – Tejon-Castac



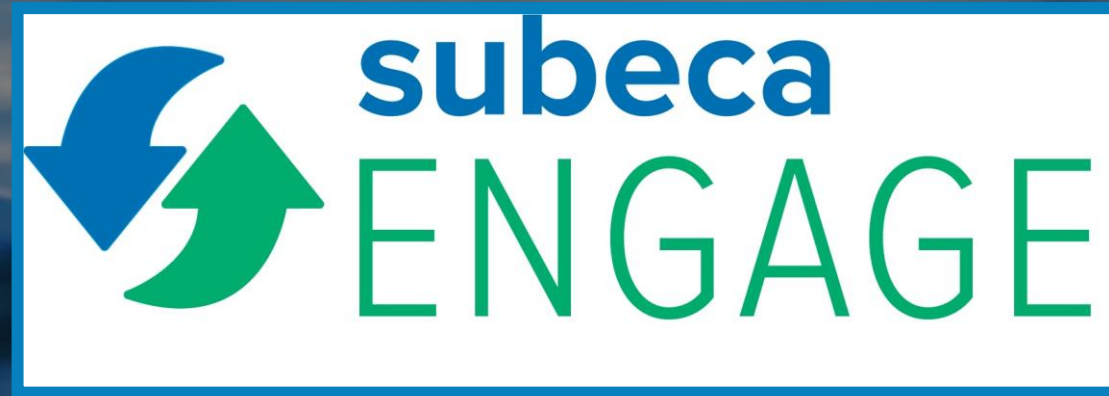


# Subeca Edge Network

True “real time” data

- While most IoT applications rely on devices connecting to the cloud for computing and analytics, Edge networks reduce the cost of backhauling **all IoT data** to the cloud.
- This enables performance of advanced on-device processing known as “edge computing.”
- Consider it the complement to “cloud computing.”
- Subeca includes edge access for capturing granular data for the consumer and agency.

# The Subeca Engage Platform

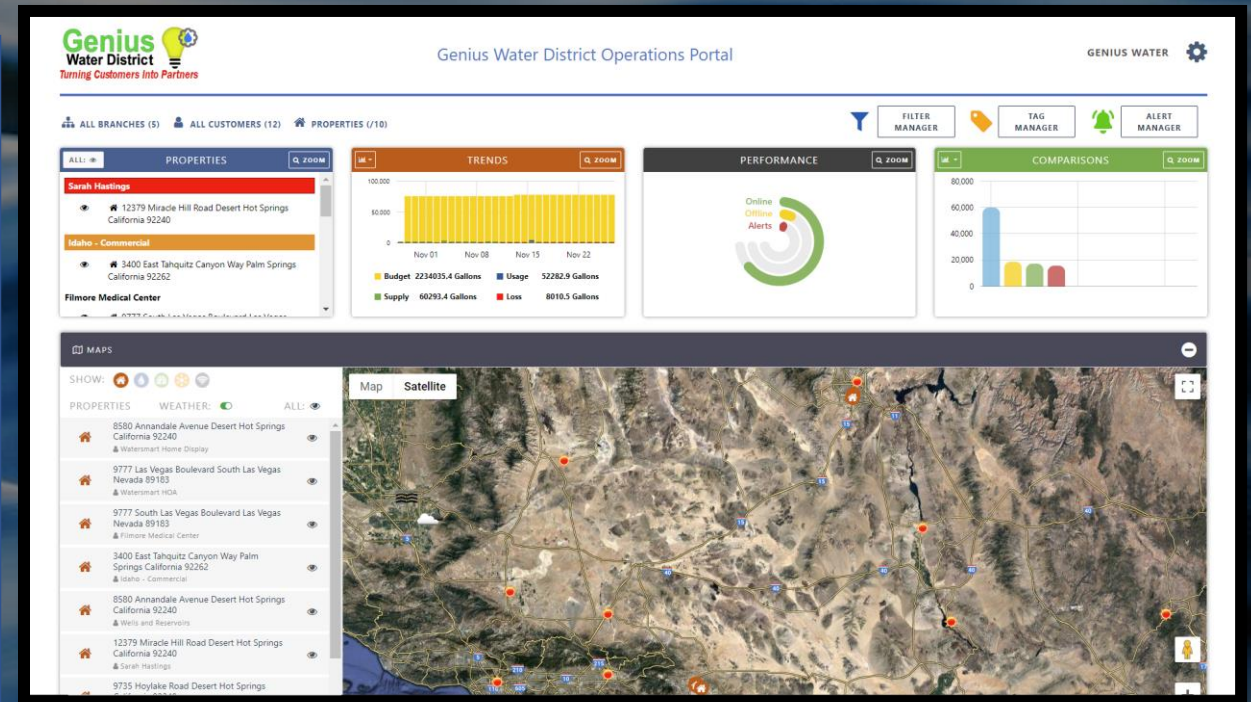




# The Subeca Engage Platform for Utilities



- System-wide or segmented water use analytics (residential, CII, recycled water, etc.)
- Budgeting tools and alerts
- Watering day monitoring capable
- System water loss calculations
- Can integrate with other LoRa-capable devices (water quality, pressure, fleet tracking, etc.)



# EngagedUtility™



## Genius Water District Operations Portal

GENIUS WATER

Navigation: ALL BRANCHES (5) | ALL CUSTOMERS (12) | PROPERTIES (16)

Tools: FILTER MANAGER | CALENDAR MANAGER | NOTES MANAGER | TAG MANAGER | ALERT MANAGER

### PROPERTIES

ALL: **PROPERTIES**

- Sarah Hastings**  
12379 Miracle Hill Road Desert Hot Springs California 92240
- Idaho - Commercial**  
3400 East Tahquitz Canyon Way Palm Springs California 92262
- ACWA HOA**  
9777 Las Vegas Boulevard South Las Vegas Nevada 89143

### TRENDS

**TRENDS**

Category	Value
Budget	2247383.2 Gallons
Usage	35353.6 Gallons
Supply	58153.8 Gallons
Loss	22800.2 Gallons

### PERFORMANCE

**PERFORMANCE**

Online  
Offline  
Alerts

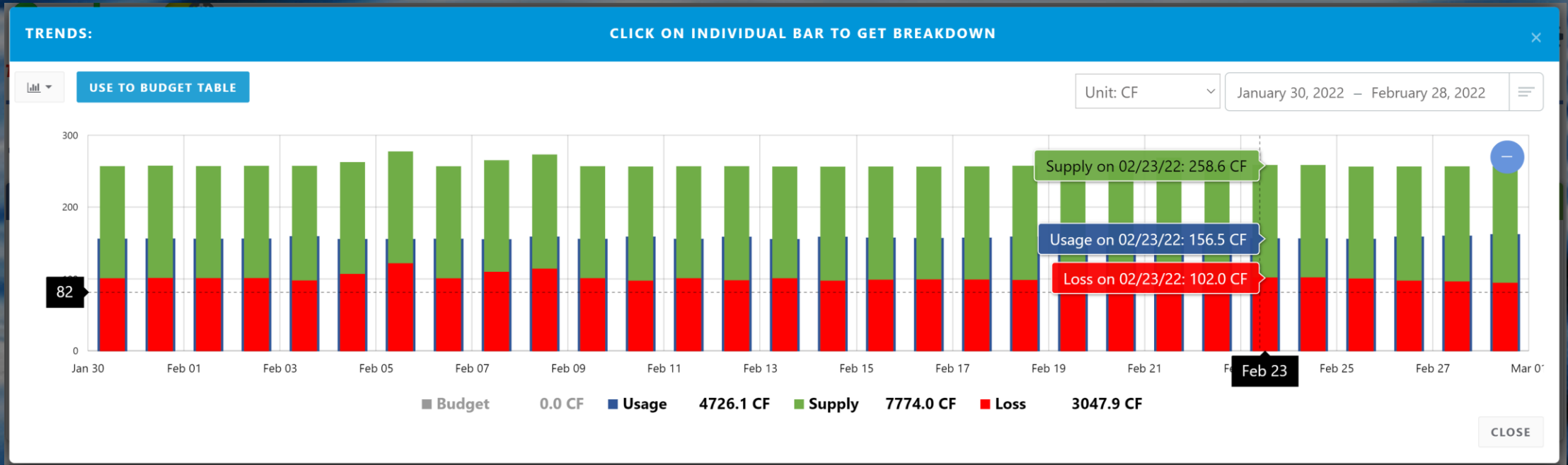
### COMPARISONS

**COMPARISONS**

- MAPS
- ACCOUNTS
- CHARTS
- ANALYTICS



# EngagedUtility™



# EngagedUtility™

**USE TO BUDGET** ×

<input type="checkbox"/>	Address	Type	Budget	Use	Status	+/-	Connect
<input type="checkbox"/>	12379 Miracle Hill Road Desert Hot Springs California 92240 Sarah Hastings		12678.6 CCF	17070.8 CCF	Over	+34.6%	
<input type="checkbox"/>	8580 Annandale Avenue Desert Hot Springs California 92240 Wells and Reservoirs		0.0 CCF	58153.8 CCF	Over	+Infinity%	
<input type="checkbox"/>	Las Vegas Boulevard South Las Vegas Nevada 89123 ACWA Water Production		0.0 CCF	0.0 CCF	Below	-NaN%	
<input type="checkbox"/>	67967 Vista Chino Cathedral City California 92234 Sunlit Skies HOA		0.0 CCF	18282.8 CCF	Over	+Infinity%	
<input type="checkbox"/>	9777 Las Vegas Boulevard South Las Vegas Nevada 89183		0.0 CCF	0.0 CCF	Below	-NaN%	

**DROP MESSAGE TO [ ] SELECTED CUSTOMERS**

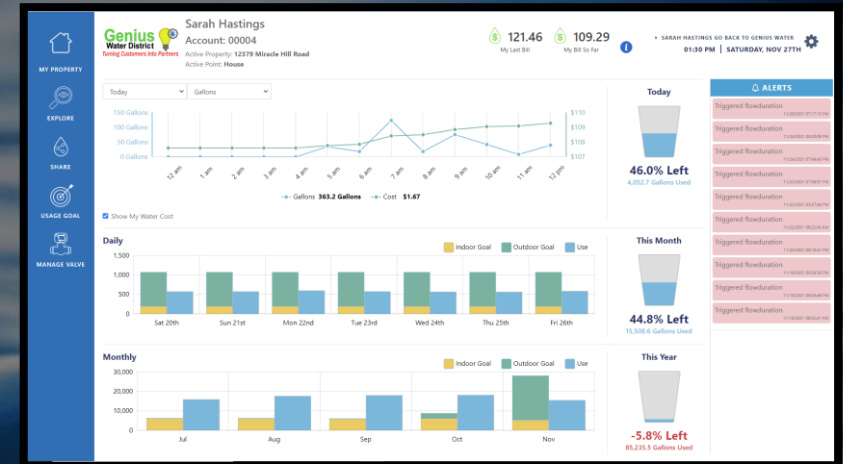
**CLOSE**



# The Subeca Engage Consumer Platform



- Remote leak/waste notification and management
- Water budget (set by agency or customer)
- Up to the minute water cost
- Outdoor v. indoor budget
- Platform accommodates additional smart devices (rebates items, etc.)
- Examples: moisture sensors, flow sensors, irrigation controller, additional meters, automated valves





# EngagedHome™

**Genius Water District** **Sarah Hastings**  
Account: 00004  
Active Property: 12379 Miracle Hill Road  
Active Point: House

My Last Bill: **121.46** My Bill So Far: **109.29** SARAH HASTINGS GO BACK TO GENIUS WATER

01:30 PM | SATURDAY, NOV 27TH

Today

● Gallons **363.2 Gallons** ● Cost **\$1.67**

Show My Water Cost

**Daily**

■ Indoor Goal ■ Outdoor Goal ■ Use

**Monthly**

■ Indoor Goal ■ Outdoor Goal ■ Use

**Today**

**46.0% Left**  
4,052.7 Gallons Used

**This Month**

**44.8% Left**  
15,008.6 Gallons Used

**This Year**

**-5.8% Left**  
85,235.5 Gallons Used

**ALERTS**

- Triggered flowduration 11/26/2021 07:17:15 PM
- Triggered flowduration 11/25/2021 06:20:09 PM
- Triggered flowduration 11/24/2021 07:44:40 PM
- Triggered flowduration 11/23/2021 07:09:57 PM
- Triggered flowduration 11/22/2021 05:27:48 PM
- Triggered flowduration 11/22/2021 06:22:34 AM
- Triggered flowduration 11/20/2021 06:19:41 PM
- Triggered flowduration 11/19/2021 09:39:36 PM
- Triggered flowduration 11/18/2021 06:38:46 PM
- Triggered flowduration 11/18/2021 06:55:41 AM

MY PROPERTY

EXPLORE

SHARE

USAGE GOAL

MANAGE VALVE

CONTACT US

WATER SAVING INFO

PAY BILL ONLINE

# EngagedHome™ (Info icon)

**Genius Water District**  
Turning Customers Into Partners

Sarah Hastings  
Account: 00004

121.46 109.29

SARAH HASTINGS GO BACK TO GENIUS WATER

10 PM | SATURDAY, NOV 27TH

### BILLING TIERS

TIERS FOR RESIDENTIAL

Title	Rate	Limit(HCF)
Tier 1	\$2.53 / HCF	7
Tier 2	\$3.45 / HCF	N/A

METER SIZES

Size	Service Code	Rate
3/4	Residential	\$22.1

CLOSE

Today

150 Gallons  
100 Gallons  
50 Gallons  
0 Gallons

☑ Show My Water Cost

Daily

1,500  
1,000  
500  
0

Sat 20th Sun 21st Mon 22nd Tue 23rd Wed 24th Thu 25th Fri 26th

44.8% Left  
15,508.6 Gallons Used

Monthly

30,000  
20,000  
10,000  
0

Jul Aug Sep Oct Nov

Indoor Goal Outdoor Goal Use

This Year

-5.8% Left  
85,235.5 Gallons Used

### ALERTS

- Triggered flowduration 11/26/2021 07:17:15 PM
- Triggered flowduration 11/25/2021 09:20:09 PM
- Triggered flowduration 11/24/2021 07:44:40 PM
- Triggered flowduration 11/23/2021 07:09:57 PM
- Triggered flowduration 11/22/2021 05:27:48 PM
- Triggered flowduration 11/22/2021 06:22:34 AM
- Triggered flowduration 11/20/2021 06:19:41 PM
- Triggered flowduration 11/19/2021 09:39:36 PM
- Triggered flowduration 11/18/2021 06:38:46 PM
- Triggered flowduration 11/18/2021 06:55:41 AM



# EngagedHome™ (Leak monitoring)

**ALERTS**

ALERT MANAGER | ALERT LIMITS

CHOOSE DEVICE  
Res Meter

**Flow Duration:** The Flow Duration Alert triggers when water flows continuously past a set time limit.

**Leak Detection:** This triggers when water continuously flows below a set threshold.

**Flow Volume:** The Flow Volume Alert triggers when water flows continuously past a set limit in gallons.

### Current Alert Settings

ALERT	DEVICE	HIGH LIMIT	LEAK DURATION	THRESHOLD	TIME RANGE	ADDED	ACTION
flowduration	Res Meter	40	24	0.0002777777777...	daily	09/10/2021	<a href="#">MANAGE</a>
leakdetection	Res Meter	24	12	--	daily	09/10/2021	<a href="#">MANAGE</a>
leakdetection	Res Meter	24	30	0.0002777777777...	daily	09/13/2021	<a href="#">MANAGE</a>

TO GENIUS WATER | TUESDAY, MAR 1ST

**ALERTS**

Triggered flowduration 03/01/2022 10:26:02 AM

Triggered flowduration 02/27/2022 09:19:42 PM

Triggered flowduration 02/26/2022 08:44:30 PM

Triggered flowduration 02/26/2022 08:58:44 AM

Triggered flowduration 02/24/2022 07:04:40 PM

Triggered flowduration 02/24/2022 07:00:31 AM

Triggered flowduration 02/23/2022 09:16:27 AM

Triggered flowduration 02/22/2022 08:38:48 AM

Triggered flowduration 02/21/2022 08:26:45 AM

Triggered flowduration 02/20/2022 08:42:12 AM

**ubeca**  
us Water Management  
AWS IoT Core for LoRaWAN

# EngagedHome™ (Outdoor Budget)

SARAH HASTINGS > 12379 MIRACLE HILL ROAD DESERT HOT SPRINGS CALIFORNIA 92240 > PROPERTY LANDSCAPE

DETAILS WATER BUDGET MEDIA NOTIFICATIONS DEVICES ZONES

Site Area Calculations

BUDGET

Enable Budget Alerts

Imperial [ID: 180, Imperial]  
Imperial [ID: 181, Imperial]  
Tulare [ID: 182, Tulare]  
Inyo [ID: 183, Inyo]  
San Diego [ID: 184, San Diego]  
Imperial [ID: 185, Imperial]  
Imperial [ID: 186, Imperial]  
Marin [ID: 187, Marin]  
Madera [ID: 188, Madera]  
Inyo [ID: 189, Inyo]  
Fresno [ID: 190, Fresno]  
Alameda [ID: 191, Alameda]  
San Bernardino [ID: 192, San Bernardino]  
Monterey [ID: 193, Monterey]  
Stanislaus [ID: 194, Stanislaus]  
Placer [ID: 195, Placer]  
Yolo [ID: 196, Yolo]  
**Los Angeles [ID: 197, Los Angeles]**  
Ventura [ID: 198, Ventura]  
San Bernardino [ID: 199, San Bernardino]

Map Satellite

Google

Point Area: 2,000  
Point Perimeter: 1,000

**DRAW AREA**

.7

Enable Low Budget Alerts

POINT BUDGET HISTORY CLOSE SAVE

Outdoor budget based on CA Model Water Efficient Landscape Ordinance (MWELO)



# Municipal Water Leader

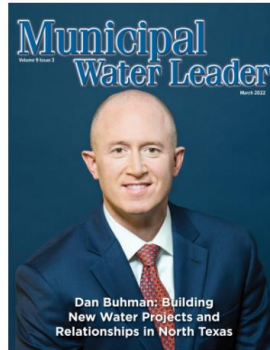
Magazine

municipalwaterleader.com/  
Search: "Subeca"

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In Memoriam



INTERVIEW

## How Subeca's Water Management Platform Goes Beyond Advanced Metering Infrastructure

January 24, 2022

Technology company Subeca offers a total water management platform for water utilities that goes beyond the capabilities of a conventional advanced metering infrastructure (AMI) solution. It uses meters, sensors, and valves to provide utilities and customers with intelligence about water operations and potential problems like leaks and to enable them to react remotely. Further, its customer-facing portal, Engage, not only provides information about water consumption to end users but can also be set up to enable them to control shutoff valves, monitor irrigation systems and consumption, and operate other elements of their home systems. In this interview, Chief Strategy Officer Hank McCarrick provides insight into Subeca's solution and





# Summary

- At its basic level Subeca is superior to legacy AMI as it goes beyond traditional capabilities of AMI.
- Subeca utilizes an open and secure LoRa network that accommodates additional IoT devices to enhance operations and delivery of services to district customers.
- Subeca's retrofit installation model is fast, does not disrupt water service and extends the life of existing meter inventory.
- Subeca's included Engage™ platforms empower both the utility and the consumer to manage water like no other platform.
- The Subeca platform integrates with most billing services or programs
- Subeca's Edge network provides redundancy and true real time data to your residents and customer service team.

# Additional Questions



Tejon Castac Water District  
FY 2023 BUDGET

	2015	2016	2017	2018	2019	2020	2021	2022 BUDGET	2022 FORECAST	2023 BUDGET	VARIANCE FROM FORECAST	VARIANCE FROM PY BUDGET
Sales Water	\$ 5,502,500	\$ 1,152,550	\$ -	\$ 1,054,000	\$ -	\$ -		-	178	-	178	-
Sales Utilities	853,486	902,712	879,188	1,115,560	1,251,958	1,211,960	1,447,542	1,402,896	1,299,590	1,696,765	(397,175)	293,869
Sales Water Bank Reimbursement	144,644	146,951	87,140	44,837	143,227	48,000		-	159,117	-	159,117	-
Tax Assessment	104,888	13,519	13,552	5,264	2,561,366	2,000,000	1,850,000	2,400,000	2,300,000	2,460,000	(160,000)	60,000
Connection Fees	-	-	-	-	-	6,000		6,000	15,964	6,000	9,964	-
Other Reimbursements	-	-	-	-	531,947	100,000	543,742	25,000	555,876	265,002	290,874	240,002
<b>Total Revenue</b>	<b>6,605,518</b>	<b>2,215,732</b>	<b>979,880</b>	<b>2,219,662</b>	<b>4,488,497</b>	<b>3,365,960</b>	<b>3,854,402</b>	<b>3,833,896</b>	<b>4,330,725</b>	<b>4,427,767</b>	<b>(97,042)</b>	<b>593,871</b>
P/R Salaries	-	-	-	126,354	136,980	148,837		150,000	-	150,000	(150,000)	-
P/R Overhead	-	-	-	24,377	36,153	28,146	(14,441)	30,000	-	30,000	(30,000)	-
P/R OHD Bonus	-	-	-	19,000	-	35,000		-	21,610	-	21,610	-
Prof Svcs Consulting	35,687	92,802	22,479	60,152	581,045	471,000	1,096,185	182,467	590,000	440,200	149,800	257,733
Prof Svcs Legal	17,726	23,528	65,824	45,457	92,279	60,000	66,024	42,000	16,917	21,600	(4,683)	(20,400)
Prof Svcs Accounting	10,455	12,500	20,000	29,400	26,100	21,000	36,200	25,000	11,400	25,200	(13,800)	200
Prof Svcs General	164,982	271,364	160,662	156,850	83,144	21,680	68,723	86,400	27,568	29,800	(2,232)	(56,600)
Prof Svcs Engineering	323	88,105	480	-	10,592	-		2,000	-	7,000	(7,000)	5,000
Prof Svcs Other	10,338	58,869	4,345	832	(27,802)	1,200	1,305	25,134	-	5,680	(5,680)	(19,454)
Other Svcs General	236,203	97,897	43,872	206	569	1,250	2,949	-	22,424	-	22,424	-
Licenses Other	-	-	-	-	-	-	12	-	-	-	-	-
Fees Permits	10,390	36,312	35,566	42,669	72,474	64,500	89,805	33,550	116,822	112,700	4,122	79,150
Fees General	(2,031)	-	3,031	4,099	1,056	1,200	4,736	5,500	3,485	2,400	1,085	(3,100)
Fees Other	-	8,850	8,566	-	37,987	150	8,213	-	19,074	-	19,074	-
Repairs & Maintenance	422,437	792,820	686,640	488,909	360,338	121,300	118,829	120,300	94,757	144,325	(49,568)	24,025
Sludge Removal	-	-	-	-	306,834	169,950	165,133	192,000	202,246	258,000	(55,754)	66,000
Manholes/Lift Station Vault Pumping	-	-	-	-	129,325	68,000	7,125	25,500	3,081	24,000	(20,919)	(1,500)
GAC Carbon Exchange Vessel A&B	-	-	-	-	88,632	70,000	79,389	96,000	47,461	135,000	(87,539)	39,000
Water Filtration Plant	3,322	7,206	-	-	188	-	144	-	210	-	210	-
Fuel Company Vehicle	-	-	-	-	4,754	7,500	3,653	1,000	4,284	5,400	(1,116)	4,400
Depr Machinery & Equipment	330,167	490,034	581,070	597,502	599,373	566,204	568,772	554,315	557,100	554,994	2,106	679
Depr Autos & Trucks	-	-	-	9,017	7,729	7,729	7,729	-	-	-	-	-
Depr Building and Improvements	63,329	145,448	21,291	(20,749)	21,290	21,290	21,290	21,291	21,288	21,291	(3)	-
Depr Water Systems	45,668	109,705	118,832	162,288	157,628	179,707	298,789	296,072	296,076	296,072	4	-
Depr Water General	-	-	26,815	40,223	40,223	40,223	48,358	48,358	48,358	48,358	(0)	-
Depr Land Improvements	-	-	38,071	57,106	57,921	58,328	82,141	82,141	82,141	82,141	(0)	-
Depr Computer Software	-	4,022	15,857	21,812	20,104	20,104	20,104	20,104	20,103	19,794	309	(310)
Depr Capital Leases	30,455	30,455	30,455	30,455	-	-	2,538	-	-	-	-	-
Water Purchase Costs	881,487	786,674	665,947	1,085,010	805,284	920,000	611,873	1,000,000	728,859	800,000	(71,141)	(200,000)
Water Banking Costs	444,018	310,685	222,529	173,383	31,332	111,000	341,518	500,000	674,763	675,000	(237)	175,000
Testing	690	-	-	1,899	1,648	62,400	68,432	73,900	73,114	90,750	(17,636)	16,850
Operator Expense	495,000	606,674	659,808	587,394	863,508	588,996	550,076	643,546	618,255	665,160	(46,905)	21,614
Supplies General	22,931	32,015	42,372	12,014	5,163	22,800	24,642	37,600	24,567	57,050	(32,483)	19,450
Supplies Office	6,714	2,260	163	242	183	1,200	48	1,200	419	1,200	(781)	-
Supplies Chemicals	64,591	41,474	62,977	53,024	3,394	43,800	21,540	19,200	18,855	24,000	(5,145)	4,800
Utilities Telephone	1,831	1,681	-	1,073	1,866	6,000	1,186	6,000	2,081	16,200	(14,119)	10,200
Utilities Electricity	280,226	250,800	210,178	355,951	244,887	274,900	642,847	361,300	465,350	482,300	(16,950)	121,000
Natural Gas	-	-	-	-	-	1,350	1,358	1,700	859	840	19	(860)
Insurance	67,302	68,429	42,303	6,050	81,004	75,070	49,031	47,640	74,718	80,400	(5,682)	32,760
Security	1,892	25,783	2,524	2,295	4,948	7,900	5,352	6,300	7,922	5,040	2,882	(1,260)
Refuse Disposal	-	-	-	-	1,466	6,200	2,769	5,400	2,740	5,105	(2,365)	(295)
Postage	-	-	-	-	-	1,200	-	600	149	120	29	(480)
Dues/Memberships	8,656	1,746	13,655	19,916	6,322	8,050	7,036	7,000	7,313	700	6,613	(6,300)
Other	164,957	-	-	-	1,210	-	48,121	-	-	-	-	-
Interest	-	-	-	-	49,505	48,504	74,611	65,733	65,736	65,736	-	3
Other Expense	52,861	52,067	42,840	29,436	(536,333)	-	-	-	1,879	-	1,879	-
<b>Total Expenses</b>	<b>3,872,863</b>	<b>4,450,206</b>	<b>3,849,151</b>	<b>4,223,648</b>	<b>4,410,304</b>	<b>4,363,668</b>	<b>5,234,145</b>	<b>4,816,251</b>	<b>4,973,984</b>	<b>5,383,556</b>	<b>(409,572)</b>	<b>567,305</b>
<b>Net Income/(Loss)</b>	<b>\$ 2,732,655</b>	<b>\$ (2,234,475)</b>	<b>\$ (2,869,271)</b>	<b>\$ (2,003,987)</b>	<b>\$ 78,194</b>	<b>\$ (997,708)</b>	<b>\$ (1,379,743)</b>	<b>\$ (982,355)</b>	<b>\$ (643,259)</b>	<b>\$ (955,789)</b>	<b>\$ (506,614)</b>	<b>\$ 26,566</b>

**TEJON CASTAC WATER DISTRICT  
FY 2023 BUDGET BY PROFIT CENTERS**

	101-Administrative	102-Waste Water Plant	103-Domestic Water	104-Reclaim Water	108-Storm Water System	Consolidated
40050-Sales Water	-	-	-	-	-	-
40055-Sales Utilities	1,696,765	-	-	-	-	1,696,765
40097-Sales Water Bank Reimbursement	-	-	-	-	-	-
Water Sales/Tax Assessment	2,460,000	-	-	-	-	2,460,000
43056-Connection Fees	6,000	-	-	-	-	6,000
Other Reimbursements	265,002	-	-	-	-	265,002
<b>40000-Revenue</b>	<b>4,427,767</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,427,767</b>
60010-P/R Salaries	150,000	-	-	-	-	150,000
60015-P/R Overhead	30,000	-	-	-	-	30,000
60070-P/R OHD Bonus	-	-	-	-	-	-
61001-Prof Svcs Consulting	440,200	-	-	-	-	440,200
61002-Prof Svcs Legal	21,600	-	-	-	-	21,600
61003-Prof Svcs Accounting	25,200	-	-	-	-	25,200
61006-Prof Svcs General	8,400	13,400	8,000	-	-	29,800
61039-Prof Svcs Other	2,000	5,000	-	-	-	7,000
61047-Other Svcs General	360	3,920	1,400	-	-	5,680
62019-Licenses Other	-	-	-	-	-	-
62031-Fees Permits	105,000	700	7,000	-	-	112,700
62039-Fees General	2,400	-	-	-	-	2,400
60149-Fees Other	-	-	-	-	-	-
62051-Repairs & Maintenance	1,500	114,000	26,425	2,400	-	144,325
62052-Sludge Removal WWTP	-	258,000	-	-	-	258,000
62053- Manholes/Lift Station Vault Pumping	-	24,000	-	-	-	24,000
62054-GAC Carbon Exchange Vessel A&B Water Filtration Plant	-	-	135,000	-	-	135,000
62061-Fuel Company Vehicle	4,800	600	-	-	-	5,400
63001-Depr Machinery & Equipment	-	309,523	198,792	4,293	42,386	554,994
63002-Depr Autos & Trucks	-	-	-	-	-	-
63004-Depr Building and Improvements	-	12,312	-	-	8,979	21,291
63006-Depr Water Systems	-	167,503	9,713	-	118,856	296,072
63008-Depr Water General	-	-	48,358	-	-	48,358
63010-Depr Land Improvements	-	-	82,141	-	-	82,141
63012-Depr Computer Software	-	19,794	-	-	-	19,794
63015-Depr Capital Leases	-	-	-	-	-	-
64045-Water Purchase Costs	800,000	-	-	-	-	800,000
64047-Water Banking Costs	675,000	-	-	-	-	675,000
64095-Testing	-	36,000	54,000	-	750	90,750
64096-Operator Expense	-	482,160	69,600	92,400	21,000	665,160
66020-Supplies General	250	26,400	2,400	6,000	22,000	57,050
66025-Supplies Office	1,200	-	-	-	-	1,200
66048-Supplies Chemicals	-	18,000	6,000	-	-	24,000
67010-Utilities Telephone	1,800	5,400	9,000	-	-	16,200
67020-Utilities Electricity	-	200,900	281,400	-	-	482,300
67015-Natural Gas	-	840	-	-	-	840
67067-Insurance	80,400	-	-	-	-	80,400
67068-Security	-	2,640	2,400	-	-	5,040
67095-Refuse Disposal	-	5,105	-	-	-	5,105
67099-Postage	120	-	-	-	-	120
68025-Dues/Memberships	700	-	-	-	-	700
66070-Interest	65,736	-	-	-	-	65,736
<b>60000-Expenses</b>	<b>2,416,666</b>	<b>1,706,197</b>	<b>941,629</b>	<b>105,093</b>	<b>213,971</b>	<b>5,383,556</b>
<b>Net Loss</b>	<b>2,011,101</b>	<b>(1,706,197)</b>	<b>(941,629)</b>	<b>(105,093)</b>	<b>(213,971)</b>	<b>(955,789)</b>



**TEJON CASTAC WATER DISTRICT  
MONTHLY CASH FLOW STATEMENT-FORECAST  
FOR THE FISCAL YEAR 2023**

**BUDGETED CASH FLOWS**

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
REVENUE													
Sales Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Sales Utilities	143,900	139,367	137,453	194,447	143,570	126,924	112,525	133,550	149,228	131,634	139,231	144,936	1,696,765
Sales Water Bank Reimbursement	-	-	-	-	-	-	-	-	-	-	-	-	-
Connection Fees	500	500	500	500	500	500	500	500	500	500	500	500	6,000
Water Sale/Tax Assessment	205,000	205,000	205,000	205,000	205,000	205,000	205,000	205,000	205,000	205,000	205,000	205,000	2,460,000
Other Reimbursements	-	-	107,000	-	-	44,334	25,000	-	44,334	-	-	44,334	265,002
<b>TOTAL REVENUE</b>	<b>349,400</b>	<b>344,867</b>	<b>449,953</b>	<b>399,947</b>	<b>349,070</b>	<b>376,758</b>	<b>343,025</b>	<b>339,050</b>	<b>399,062</b>	<b>337,134</b>	<b>344,731</b>	<b>394,770</b>	<b>4,427,767</b>
EXPENSE:													
ADMINISTRATION	526,701	125,401	125,801	125,451	126,801	630,401	126,851	126,751	125,801	125,451	125,801	125,451	2,416,666
WASTERWATER TREATMENT PLANT	149,909	145,004	144,154	140,704	136,965	136,965	142,265	138,265	143,225	140,465	147,315	140,965	1,706,197
DOMESTIC WATER	128,586	63,901	70,401	63,901	112,901	64,301	68,261	68,001	109,801	63,901	63,837	63,837	941,628
RECLAIMED WATER	9,258	8,508	8,508	9,258	8,508	8,508	9,258	8,508	8,508	9,258	8,508	8,508	105,094
OTHER	20,685	16,435	16,435	20,435	16,685	16,435	20,435	16,435	16,685	20,435	16,435	16,435	213,971
	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENSE</b>	<b>835,139</b>	<b>359,249</b>	<b>365,299</b>	<b>359,749</b>	<b>401,860</b>	<b>856,610</b>	<b>367,070</b>	<b>357,960</b>	<b>404,020</b>	<b>359,510</b>	<b>361,896</b>	<b>355,196</b>	<b>5,383,556</b>
NET FROM OPERATIONS	(485,739)	(14,382)	84,655	40,198	(52,790)	(479,851)	(24,045)	(18,910)	(4,959)	(22,376)	(17,164)	39,575	(955,789)
ADD DEPRECIATION/AMORTIZATION	85,257	85,257	85,257	85,257	85,219	85,219	85,219	85,219	85,219	85,219	85,154	85,154	1,022,649
CAPEX	-	-	-	-	-	-	-	-	-	-	-	-	-
	(400,482)	70,875	169,912	125,455	32,429	(394,633)	61,174	66,309	80,260	62,842	67,990	124,729	66,860
NET CASH AFTER CREDIT FINANCING	(400,482)	70,875	169,912	125,455	32,429	(394,633)	61,174	66,309	80,260	62,842	67,990	124,729	66,860
BEGINNING CASH	96,208	(304,274)	(233,398)	(63,486)	61,969	94,398	(300,235)	(239,062)	(172,753)	(92,493)	(29,651)	38,339	
<b>ENDING CASH AND INVESTMENTS</b>	<b>\$ (304,274)</b>	<b>\$ (233,398)</b>	<b>\$ (63,486)</b>	<b>\$ 61,969</b>	<b>\$ 94,398</b>	<b>\$ (300,235)</b>	<b>\$ (239,062)</b>	<b>\$ (172,753)</b>	<b>\$ (92,493)</b>	<b>\$ (29,651)</b>	<b>\$ 38,339</b>	<b>\$ 163,068</b>	

**TEJON CASTAC WATER DISTRICT  
MONTHLY CASH FLOW STATEMENT-FORECAST  
FOR THE FISCAL YEAR 2022**

**FORECASTED CASH FLOWS**

<b>Budget FY2022</b>	
Beginning Cash and Investments	\$ (3,525)
Net Cash	\$ 39,927
Ending Cash and Investments	\$ 36,402
<b>Forecast FY2022</b>	
Beginning Cash and Investments	\$ 23,136
Net Cash	\$ 73,072
Ending Cash and Investments	\$ 96,208
Variance	\$ 59,806

<b>Bank Balance as of June 8, 2022</b>		<b>\$ 5,895</b>		
		<b>BILLINGS</b>	<b>COLLECTIONS</b>	<b>OUTSTANDING</b>
2022	July	\$ 144,746.73	\$ 144,746.73	\$ -
	August	\$ 191,525.69	\$ 191,525.69	\$ -
	September	\$ 137,398.31	\$ 137,398.31	\$ -
	October	\$ 158,894.94	\$ 159,019.09	\$ (124.15)
	November	\$ 117,425.06	\$ 117,425.06	\$ -
	December	\$ 102,700.87	\$ 105,047.96	\$ (2,347.09)
	January	\$ 90,198.96	\$ 90,195.33	\$ 3.63
	February	\$ 114,480.39	\$ 114,082.88	\$ 397.51
	March	\$ 128,021.19	\$ 120,327.96	\$ 7,693.23
	April	\$ 113,959.00	\$ 65,133.12	\$ 48,825.88
	May	\$ 133,475.28	\$ -	\$ 133,475.28

\$ 187,924.29 Outstanding A/R