



# What We Do

Verno has developed revolutionary water desalination and decontamination technology that can process seawater, brackish and other contaminated waters, resulting in potable water at a cost that is less than half of Reverse Osmosis.

**Sea Water**

**Brackish & Brine  
Water**

**Water Purification  
and Treatment**

**Markets**

**Oil & Gas Industries**

**Agriculture**

**Municipal Water Districts**

**Government & Military**

# Our Product

Returns 70-80%  
of Input into  
Potable Water

Meets EPA TDS  
Drinking  
Water Standards

Low Capital  
and Operating  
Costs  
(Energy Etc.)

- Highly Mobile
- Small Footprint
- Scalable

Minimal  
Volume  
of Brine



Water is  
vaporized by  
vacuum  
distillation & a  
cavitation  
process,  
centrifugal  
force  
separates the  
contaminates  
from the vapor

# Patents & Trade Marks

Verno Water, Inc. is the exclusive licensee of Verno Holdings,(VH) for the decontamination of water. VH has applied for and received four patents from the U.S. Patent and Trademark Office (USPTO). The filing permits Verno Water, Inc. to use the Patent terminology in the Company's literature and on its products. These patents will further enhance Verno Holding's intellectual property portfolio. To protect its technology worldwide, Verno Holdings has sixteen foreign patents approved, Australia, Canada, Chile, China, Colombia, Eurasian Federation, France, Germany, Great Britain, Hong Kong. India, Israel, Italy, Korea, Mexico, and Spain; additional Patents pending. The USPTO has been granted three Registered Trademarks, Verno®, Verno Water® and Verno RainMaker® and one Trademark, Verno VaporMaker™. The Patents address the following areas;

- ✓ **Operational reliability and maintainability**
- ✓ **Design and manufacturing efficiencies**
- ✓ **Significant brine reduction**
- ✓ **Controlled operational outcomes**
- ✓ **Increased potable water recovery percentages**



Company: Verno Water, Inc.  
3040 Caselli Way  
Santa Maria, CA 93455

Date: 09/08/15

Lab No: LFX-0036  
Non-Regulatory

Field: Mamou - Produced Water Tank

Attention: Mr. John Riley

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**Sample Data:**

Sample Date: 09-02-15

Sample Time: 1325 hrs.

Sampled By: Charlie Voinche

## Water Analysis

**Laboratory Data:**

Parameter - units	Results
pH – s.u.	6.7 @ 30.0 °C
Chloride – mg/l	41,552
Sulfate - mg/l	<1
Carbonate - mg/l	0
Bicarbonate - mg/l	684
Hydroxide - mg/l	0
Iron – mg/l	16
TDS – mg/l	72,850
Conductivity – mS/cm	90.6
Sodium – mg/l	23,240
Calcium – mg/l	1,220
Magnesium – mg/l	235
Oil & Grease – mg/L	567



Company: Verno Water, Inc.  
3040 Caselli Way  
Santa Maria, CA 93455

Date: 09/08/15

Field: Mamou - Produced Water Processed

Lab No: LFX-0038  
Non-Regulatory

Attention: Mr. John Riley

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**Sample Data:**

Sample Date: 09-02-15

Sample Time: 1340 hrs.

Sampled By: Charlie Voinche

## Water Analysis

**Laboratory Data:**

Parameter - units	Results
pH - s.u.	9.6 @ 26.0 °C
Chloride - mg/l	86
Sulfate - mg/l	4
Carbonate - mg/l	176
Bicarbonate - mg/l	8
Hydroxide - mg/l	0
Iron - mg/l	0.38
TDS - mg/l	94
Conductivity - mS/cm	0.387
Sodium - mg/l	28
Calcium - mg/l	2
Magnesium - mg/l	0.43
Oil & Grease - mg/L	16

Company: Verno Water, Inc.  
3040 Caselli Way  
Santa Maria, CA 93455

Date: 09/08/15

Field: Mamou-Prod. Water Processed #2

Lab No: LFX-0040  
Non-Regulatory

Attention: Mr. John Riley

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**Sample Data:**

Sample Date: 09-02-15

Sample Time: 1545 hrs.

Sampled By: Charlie Voinche

**Water Analysis**

**Laboratory Data:**

Parameter - units	Results
pH – s.u.	9.1 @ 35.0 °C
Chloride – mg/l	465
Sulfate - mg/l	6
Carbonate - mg/l	116
Bicarbonate - mg/l	48
Hydroxide - mg/l	0
Iron – mg/l	0.20
TDS – mg/l	764
Conductivity – mS/cm	1.619
Sodium – mg/l	271
Calcium – mg/l	14
Magnesium – mg/l	2
Oil & Grease – mg/L	---

Company: Verno Water, Inc.  
3040 Caselli Way  
Santa Maria, CA 93455

Date: 09/08/15

Lab No: LFX-0037  
Non-Regulatory

Field: Mamou - Brackish Water Tank

Attention: Mr. John Riley

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**Sample Data:**

Sample Date: 09-02-15

Sample Time: 1310 hrs.

Sampled By: Charlie Voinche

**Water Analysis**

**Laboratory Data:**

Parameter - units	Results
pH – s.u.	7.3 @ 30.0 °C
Chloride – mg/l	525
Sulfate - mg/l	40
Carbonate - mg/l	0
Bicarbonate - mg/l	86
Hydroxide - mg/l	0
Iron – mg/l	0.43
TDS – mg/l	1,092
Conductivity – mS/cm	1.871
Sodium – mg/l	296
Calcium – mg/l	47
Magnesium – mg/l	27
Oil & Grease – mg/L	37



Company: Verno Water, Inc.  
3040 Caselli Way  
Santa Maria, CA 93455

Date: 09/08/15

Field: Mamou-Brackish Water Processed

Lab No: LFX-0042  
Non-Regulatory

Attention: Mr. John Riley

**Sample Data:**

Sample Date: 09-02-15

Sample Time: 1620 hrs.

Sampled By: Charlie Voinche

**Water Analysis**

**Laboratory Data:**

Parameter - units	Results
pH – s.u.	8.9 @ 37.0 °C
Chloride – mg/l	25
Sulfate - mg/l	<1
Carbonate - mg/l	8
Bicarbonate - mg/l	36
Hydroxide - mg/l	0
Iron – mg/l	0.21
TDS – mg/l	36
Conductivity – mS/cm	0.1491
Sodium – mg/l	11
Calcium – mg/l	2
Magnesium – mg/l	<1
Oil & Grease – mg/L	13

# Verno Product Development Summary

## **Computational Fluid Dynamics (CFD)**

Stonewall Consulting has completed the Computational Fluid Dynamics (CFD) assessment of the existing Verno test unit and subsequently ran additional tests.

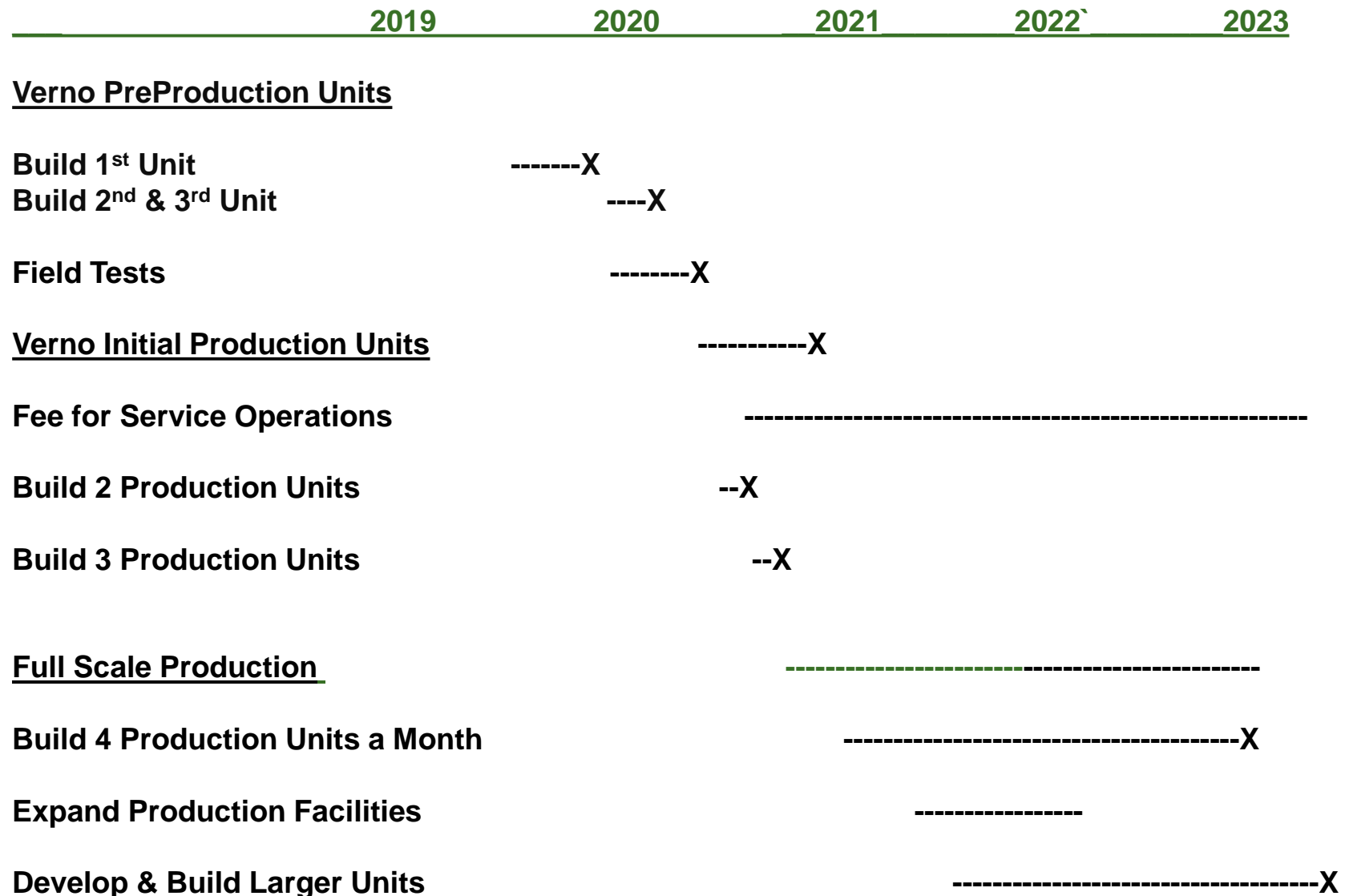
- As a result of the CFD, StoneWall has confirmed the technology is scalable.
- Its efficiency will increase as the size and input volumes are increased.
- The commercial redesign will result in high reliability and operating efficiency as well.

## **Verno RainMaker® Commercial Design**

Planned Commercial Performance:

- Recover 75% of the water content.
- Lab reports indicate the removal of over 99% of the Total Dissolved Solids.
- Therefore, blending with untreated water is feasible.
- Trailer Mounted for high mobility or skid mounted for fixed site operations.
- Powered by electric motor, diesel, or natural gas, gas powered gen set also.
- Planned output is around 1000 Gallons per Minute, 3000 GPM units planned.

# Verno Water Gantt Chart



# VW Proposed United Development Plan

	2019	2020	2021	2022	2023
<b><u>Demo Phase</u></b>					
Development Plan		-----X			
Desal UWCD Well Water w/Test Unit		-X			
Obtain Permits		-----X			
Disposal Well					
Diesel Engine + Electric					
Tanks & Plumbing					
<b><u>On Site Demonstrations</u></b>					
Production VRM Demo			--X		
<b><u>Fee for Service Operations</u></b>					
3 VRMs Desal Deep Wells			---X		
3 VRMS Desal Shallow Wells				---X	
<b><u>AG Water Augmentation</u></b>					
AWA Development Plan			-----X		
Funding			-----X		
Permits			-----X		
Infrastructure				-----X	
VRMs Operations					-----X



# Where Verno Goes, Clean Water Flows



**John D. Riley, President/CEO**

**805) 570.7706**