#### STATE OF ALABAMA ) ( : COUNTY OF BALDWIN ) (

The City Council met in a Work Session at 4:30 p.m., Fairhope Municipal Complex Council Chamber, 161 North Section Street, Fairhope, Alabama 36532, on Monday, 9 October 2023.

Present were Council President Pro Tempore Corey Martin, Councilmembers: Jack Burrell and Kevin Boone, Mayor Sherry Sullivan, City Attorney Marcus E. McDowell, and City Clerk Lisa A. Hanks. Council President Jay Robinson, Councilmember Jimmy Conyers, and City Attorney Marcus E. McDowell were absent.

Council President Pro Tempore Martin called the meeting to order at 4:30 p.m.

The following topics were discussed:

- The first item on the agenda was the Presentation on the Litter Getter Project and Osprey Initiative by Code Enforcement Officer Kim Burmeister who gave an update on the Winn Dixie Retention Pond. She mentioned a GOMESA grant that is 100 percent funded to purchase 12 collectors for storm drains.
- The Next item on the agenda was the Presentation on the Demo of Heil RevAMP Electric Side Loader by Public Works Director Richard Johnson. See Power Point Presentation titled "RevAMP The future of Refuse Collection is now." He gave an update on the City trying out one of these trucks and how it worked.
- Caleb Leach, P.E. and Mark Smith, P.E. with Krebs Engineering, Inc. began the Water Well Expansion Discussion. See Power Point Presentation titled "Fairhope Water System Improvements Progress Update." This presentation will give a summary of existing water system, water demands (historical and projected), construction progress for Phase I improvements, schedule for Phase 2 improvements, and planning for future improvements. The City Council asked about reusing wastewater and reclaiming surface water.
- Councilmember Burrell said the Airport Authority meeting is tomorrow. Councilmember Burrell commented he was opposed to cosigning on the new terminal; and attorneys need to look at new contract.
- Recreation Director Pat White addressed the City Council and introduced the new Marina Manager Mark Redditt. Mr. White explained Agenda Item No. 23; and answered any questions if needed. He told the City Council his department uses 1,340 man hours painting.
- Gas Superintendent Wes Boyette addressed the City Council regarding Agenda Item No. 29; and answered any questions if needed.
- IT Director Jeff Montgomery addressed the City Council regarding Agenda Item No. 25; and answered any questions if needed.

Monday, 9 October 2023 Page -2-

- Community Affairs Director Paige Crawford addressed the City Council regarding Hannah Legg and the murals in Arts Alley. Ms. Legg explained she used anti-graffiti finish on the murals. She announced the City hired another part-time shuttle driver. Ms. Crawford explained Agenda Items No. 9 through No. 22, No. 34, and No. 35 are appropriations; and answered any questions if needed.
- Public Works Director Richard Johnson addressed the City Council and gave an update on the following projects: Track at Founders Park, Roof Project at City Hall and Civic Center, Road Paving Project, and the Haven Project.
- Electric Superintendent Ben Patterson addressed the City Council and mentioned Public Power Week was last week. He explained Agenda Item No. 24; and answered any questions. Mayor Sullivan said that it pinpoints weather for our area.
- Water and Wastewater Superintendent Daryl Morefield addressed the City Council regarding Agenda Items No. 26 and No. 27; and answered any questions if needed.
- City Treasurer Kim Creech addressed the City Council regarding Agenda Items No. 28 and No. 30; and answered any questions if needed. Councilmember Burrell questioned the grant contract.
- Mayor Sherry Sullivan addressed the City Council regarding Agenda Items No. 32, No. 33, No. 34, and No. 35; and answered any questions if needed. She commented the FEEF resolution is only for Bronze, Silver, and Gold sponsorships.

There being no further business to come before the City Council, the meeting was duly adjourned at 5:50 p.m.

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Corey Martin, Council President Pro Tempore

Lisa A. Hanks, MMC City Clerk



# City of Fairhope, AL June of 9 Softmonts Group

## Heil RevAMP eASL







Route – June 19th

- Demo Driver:
- Site: Fairhope, AL
- Starting Mileage: 8369
- Ending Mileage:8387
- Total Mileage:18
- Battery state of charge (Start): 96%
- Containers Serviced: 120
- Battery State of charge (EOD): 86%
- Avg. # cans in single charge-1200
- Type of Service: Trash/Waste
- Daily Payload Tonnage:

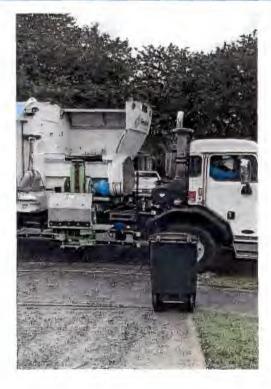


PROPRIETARY AND CONFIDENTIAL





Collaborative Entrepreneurial Spirit 🛞 Winning Through Customers 🛞 High Ethical Standards, Openness, and Trust 🛞 Expectations for Results 🛞 Respects and Values People





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# **RevAMP Electric Body on Route**



Collaborative Entrepreneurial Spirit 🚳 Winning Through Customers 🚳 High Ethical Standards, Openness, and Trust 🛞 Expectations for Results 🛞 Respects and Values People



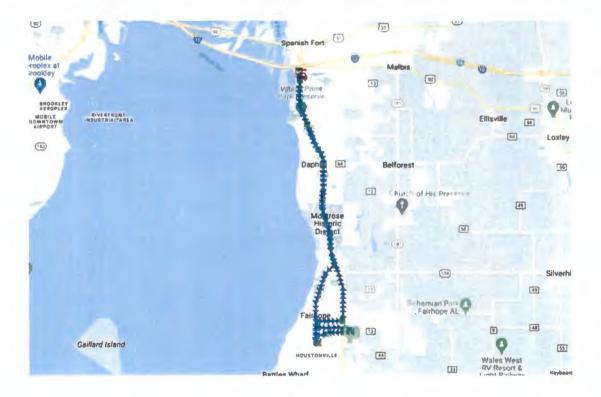


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- Total Number of Containers Serviced:120
- Times on route: 8:30 AM to 9:36 AM
- · Total Hours: 1.1 Hours
- Container Serviced per Hour: 109



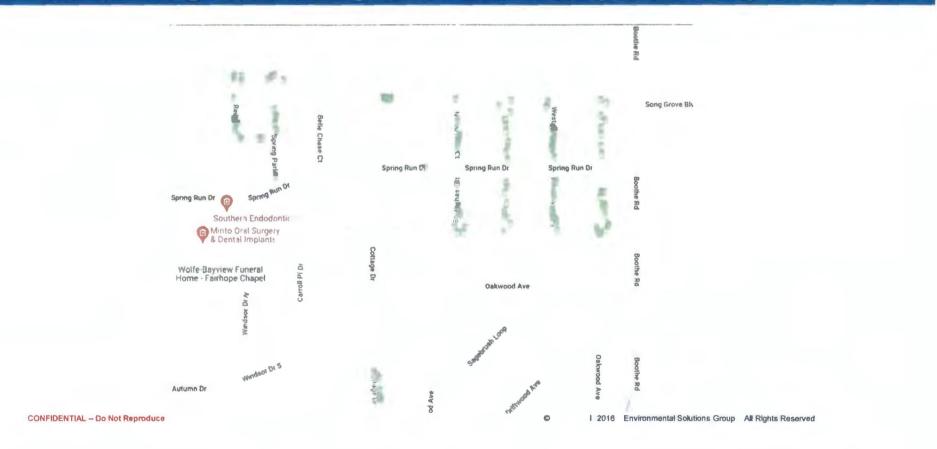
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# Positive Service Verification- (Green Cans)-Birmingham Route June 6th 2023



Collaborative Entrepreneurial Spirit 🛞 Winning Through Customers 🛞 High Ethical Standards, Openness, and Trust 🛞 Expectations for Results 🛞 Respects and Values People



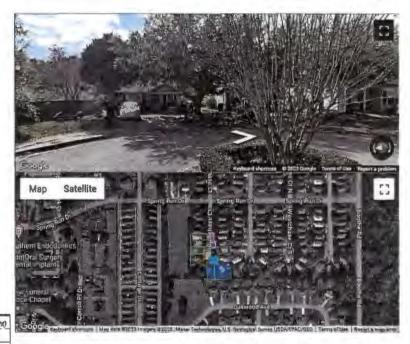




Collaborative Entrepreneurial Spirit 🚳 Winning Through Customers 🛞 High Ethical Standards, Openness, and Trust 🛞 Expectations for Results 🛞 Respects and Values People

06/19/2023 08:25:31 AM Event: 3315591106 Vehicle: 3rd Eye ESG Demo / RevAMP / ASL-PD1868RH-RV0001 Stop IDR: D. Name: Type: Status: Unknown Stop Route: Stop Address: 212 Southchass CI, Fairhope, AL 36532 Contract: Customer Number: Confidence Level: 🛑

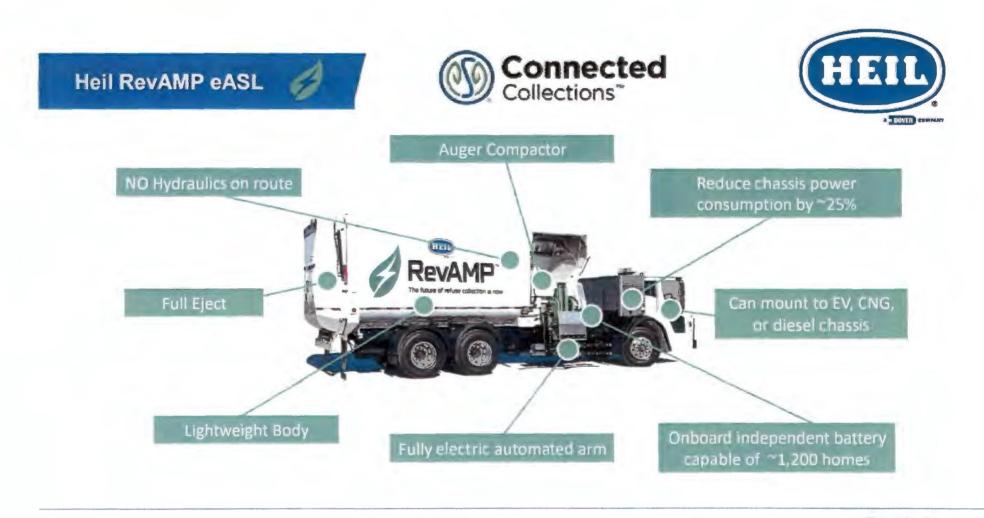




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- DOVER

#### Heil<sup>®</sup> RevAMP<sup>™</sup> Electric Automated Side Loader

The Future of Refuse Collection is Now.

#### Discover What Sets The Heil® RevAMP™ Apart





#### LIFT ARM

- Fast, precise arm motion enables highly productive refuse collection while on route
- Shake-free, smooth operation reduces driver fatigue
  No arm kick-out allows for the collection of refuse in
- alleyways and other light areas. Fully electric arm is remarkably quiet and has no
- Puty electric annis remarkacy que ano reas no hydraulic hoses or fubes that can leak or break



#### ENERGY

- ✓ 47 kWh Battery, Up to 400A available at 100V
- More than 1,200 containers on an overhight battery charge (6-8 hours)
- No power required from a chasse diesel engine
- ♂ Type 2 AC charging with 205/240 VAC shop power



#### **EJECTION PANEL**

- An electric motor is used to drive the ejection panel
- Pack-through innovation (patent pending) provides fullexect capability (no tilt-to-dump)
- Full-eject design improves stability at the landfill
- Body fixed to frame allows for shortening wiring, simplified body installation
- Large entrance points for easy access behind the ejector



#### AUGER

- The auger, tapered from 30 inches to 24 inches, requires less energy than a typical compactor ram.
- Self-cleaning hopper to avoid material bridging
- Sturtly endless auger design allows the refuse material to dump over it while in operation, so that the hopper cleans quickly
- Surface treatment on the hopper and auger is designed specifically for harsh material



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PROPF.



# Key Benefits of an Electric Body



Electric arm and auger reduces the energy required. This means you use less fuel and increase your chassis range.

Onboard battery option can be paired with any chassis fuel type. Or choose the integrated power configuration with your preferred EV chassis.

Eliminate leaks on route that generate expensive clean-ups and angry customers.

Homeowners and drivers both agree that a quieter garbage truck is a better garbage truck.

### **RevAMP Electric ASL delivers benefits that a hydraulic body cannot**

MINIT Condestantial Cabie and Pan -





# IMPROVE YOUR SUSTAINABILITY. IMPROVE YOUR BOTTOM LINE.

The Heil RevAMP electric side loader is more environmentally friendly than any other standard automated truck on the market.

- 🥔 100% electric on-route NO hydraulics NO hydraulic leaks
- J Fuel savings of up to 35% on diesel chassis; 100% fuel savings on electric chassis
- Zesily charge overnight with plenty of energy for a day's work
- GHG reduction of 41 tons/year/truck on diesel chassis
- ✓ Lighter body (less than 16,400 lbs.) less fuel consumed better payload



# **GET AMPED ABOUT FUEL SAVINGS**



When the RevAMP body is configured with a diesel-fuel chassis, fuel consumption is reduced by up to **35%** when compared to an hydraulic body. This pairing can result in dramatic fuel savings per year.



When the RevAMP body is configured with an electric-powered chassis, range is extended due to elimination of the power take off from the EV chassis.



# INFINITELY CUSTOMIZABLE CONFIGURATIONS TO MAXIMIZE YOUR ROUTE PRODUCTIVITY



Available with electric powered chassis, with the option to integrate into the chassis to use a common battery pack



Available with conventional diesel chassis



Available with CNG chassis



#### DISCOVER WHAT SETS THE HEIL REVAMP APART



#### **EJECTION PANEL**

- An electric motor is sed to drive the ejection signal
- ack\*troug innovation (patent pending, provides tu reject capability indititition dump)
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#### LIFT ARM

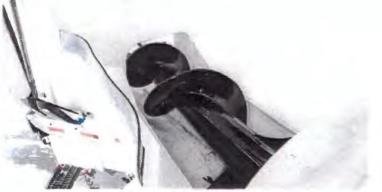
- ast 8-second cycle time and precise a mimotion enables ighly productive refise collection while an io te
- S ake free smooth operation reduces driver fittigue.
- arm kick out ows for the collection of refuse in alleyways and other tight areas
- I ully electric arm is remarkably quiet and itas the hydraulic hoses or tubes that can eak or break





#### ENERGY

- # -16 kW Bittery Up to 400A available at 100V
- More than 1 200 container. an overnight battery charge (approx 6.8) ours to charge.
- No power legal red trottle of assigned and generative of generative and the second second
- ✓ Type \_ AC ultarging with 208, 240 VAC shop power



#### AUGER

- The auger tapered from 30 inches to 24 inches requires less energy than a typical compactor ratio
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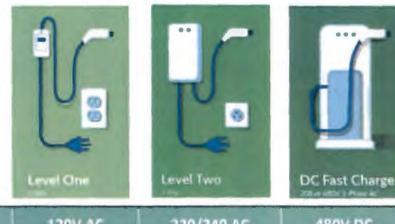
# No More Hydraulic Leaks

#### **The Cost Of Hydraulic Leaks One Drop Every 10 Seconds One Drop Every Second** Stream 13 13 13 Gallons Per Day: 0.11 Gallons Per Day: 11 Gallons Per Day: 24 2023 2121 Gallons Per Year: 27.5 Gallons Per Year: 375 Gallons Per Year: 0,000 Cost Per Gallon: \$8.50 Cost Per Gallon: 58.50 Cost Per Gallon: \$8 50 S **Cost Per Year:** \$234 Cost Per Year: \$2,338 S Cost Per Year: \$51,000 S



# Charging

# **Charging Considerations**

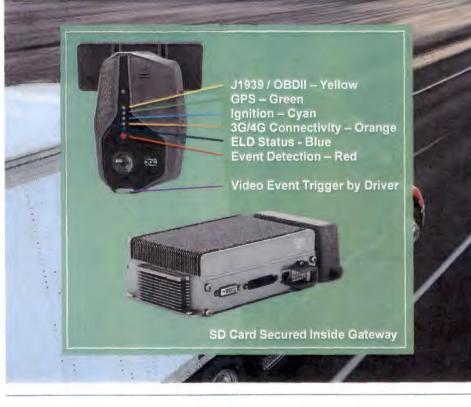




Heil RevAMP uses level 2

	120V AC	220/240 AC	480V DC
Charging Time	Slow	6-8 hours	Fastest
Cost	\$	\$	\$\$\$
Infrastructure	n/a	Available	Consult your power company

#### 3<sup>rd</sup> Eye Digital



# Hardware Features & Design

- Up to 256GB MicroSD card (Approximately 300 hours)
- Up to 8 cameras recording
- Real time video analytics and driver event processing
- Linux Operating System

17

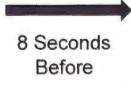
Open architect for future expansion

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#### Safety- How it Works: Triggered Events

- Event Recording Device
  - Records all installed cameras
  - Audio is recorded as desired
- Gathers Information From:
  - · Outside the vehicle
  - Live tracking of truck (GPS)
  - J1939 Information Speed, Telemetry





4 Seconds After

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- DOVER

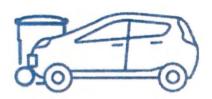
## Public Safety- Exoneration



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# Verif-Eye- Positive Service Verification





**Blocked Containers** 

Identifying Container Location



Failed Set-Outs



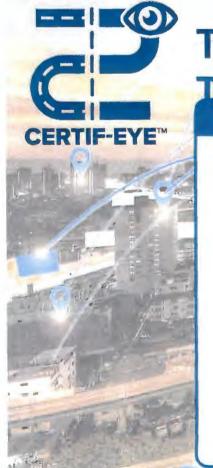
Property Damage Claims



**Overloaded Containers** 



Recycling Contamination



# **Tracking & Quantifying a Fleet in**

## Transit

#### Certif-Eye - What does it do?

- Tracks key data points about the vehicle's activity and travels
  - HQ;)

0

- 0000 Odometer Value
  - Odometer Value Current Odometer reading

• Engine Hours - Total time the engine was running "Ignition On"

- Distance Traveled Total miles driven
- Fuel Consumed Total gallons burned
- All values are summarized by:
  - Hourly
  - Daily
  - State/Province
  - On/Off Road

- Data can be consumed via:
  - Reports
  - Delimited data file (csv)
  - API Feed



# Fairhope Water System Improvements Progress Update

Caleb Leach, P.E. and Mark Smith, P.E. Krebs Engineering, Inc.

MONDAY, OCTOBER 9, 2023

**KREBS** 

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

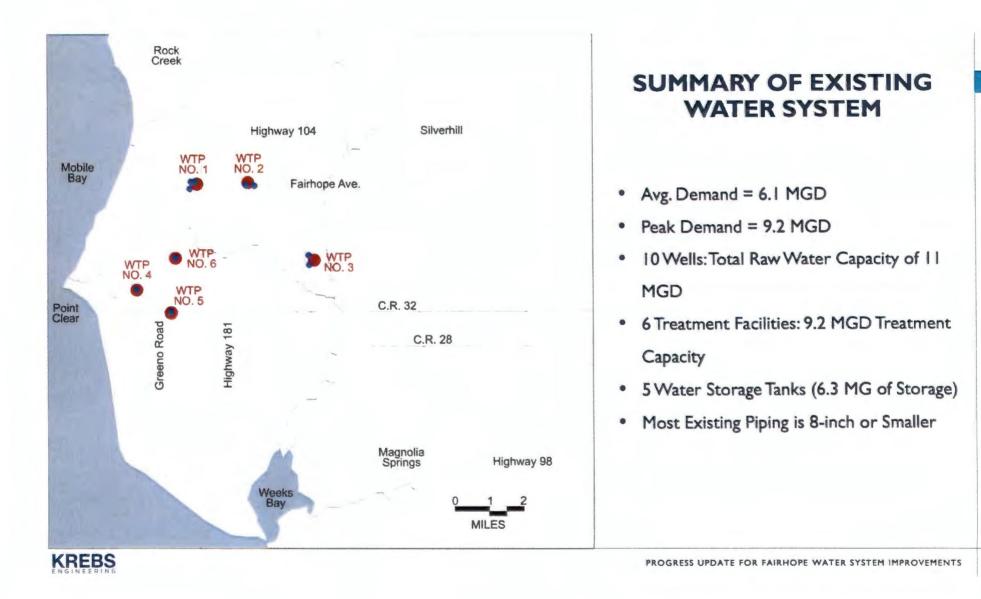


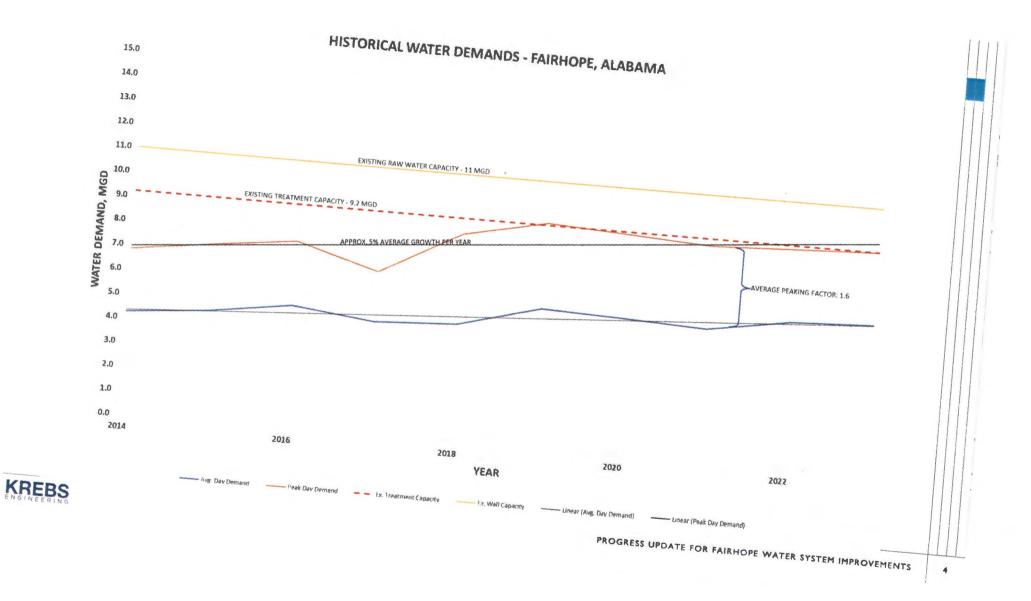
# OVERVIEW OF DISCUSSION

- Summary of Existing Water System
- Water Demands (Historical and Projected)
- Construction Progress for Phase I Improvements
- Schedule for Phase 2 Improvements (May 2024)
- Planning for Future Improvements

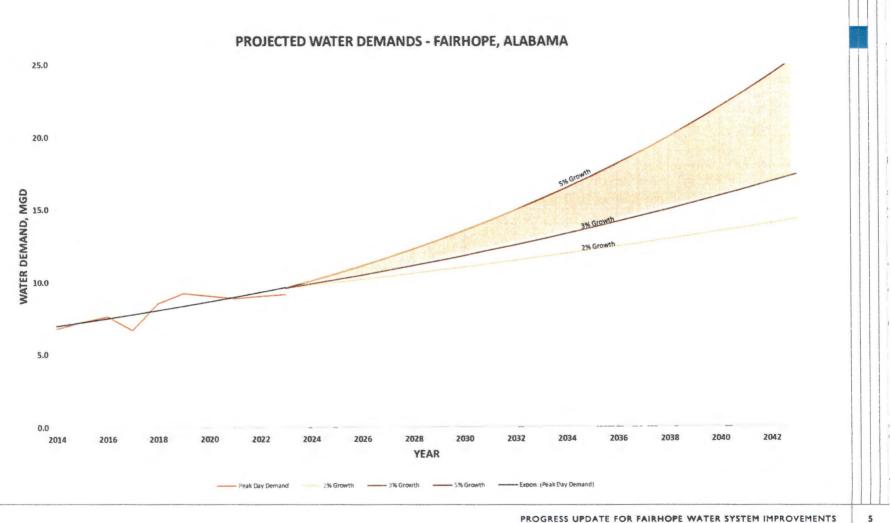
KREBS

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

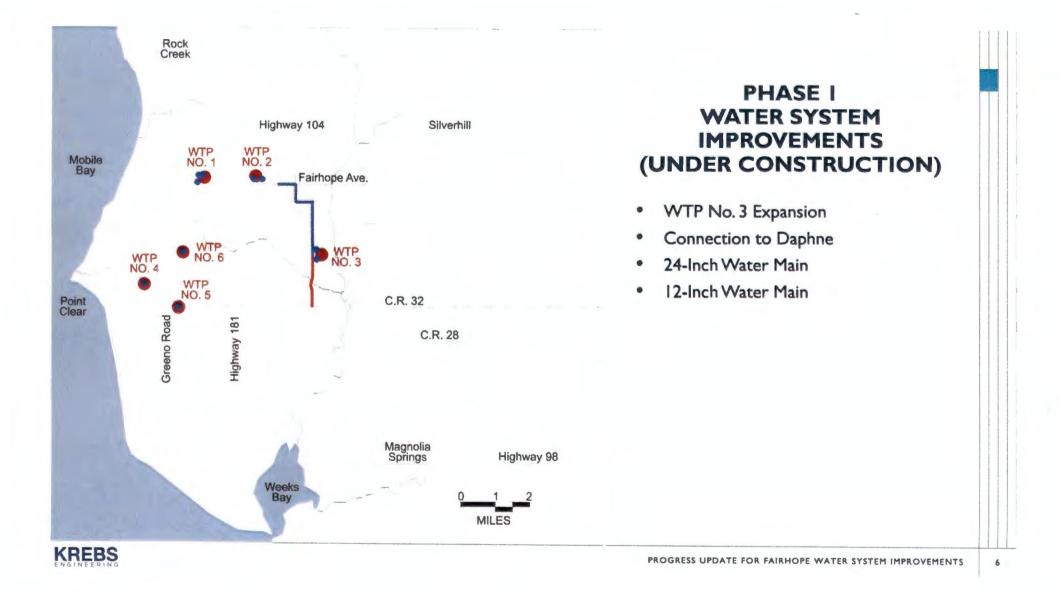




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KREBS



## PHASE I WATER SYSTEM IMPROVEMENTS



# CONSTRUCTION PROGRESS FOR WATER TREATMENT PLANT NO. 3

- Overall Project: 65% Complete
- FWPS Building: 90% Complete
- Concrete: 95% Complete
- Equipment: 90% Complete
- Electrical: 30% Complete
- March 2024 Completion

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

KREBS

## PHASE I WATER SYSTEM IMPROVEMENTS



Photo from WKRG - Mobile

## CONSTRUCTION PROGRESS FOR CONNECTION TO DAPHNE WATER SYSTEM

- Completed in September
- 6" Connection Near High Demand Area
- Estimated of Capacity: I MGD (Approximate)
- No Pump Station Required (32' Difference in Elevation of Tanks)



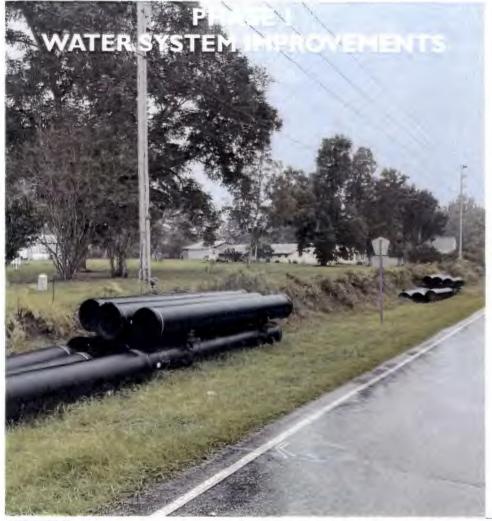
PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS



## CONSTRUCTION PROGRESS FOR 24-INCH WATER MAIN

- 24-inch Diameter Water Main
- Total Length = 19,900 Feet (3.8 Miles)
- \$6.5 Million
- 70% of Pipe has been Delivered
- 9,700 Feet (49% Of Total) Installed To Date
- Estimated Completion March 2024





## CONSTRUCTION PROGRESS FOR 12-INCH WATER MAIN

- 12-Inch Diameter Water Main
- Total Length = 8,000 Feet (1.5 Miles)
- \$1 Million
- All Pipe Has Been Delivered except for HPDE for Creek Crossing
- Beginning Work this Month
- Estimated Completion March 2024

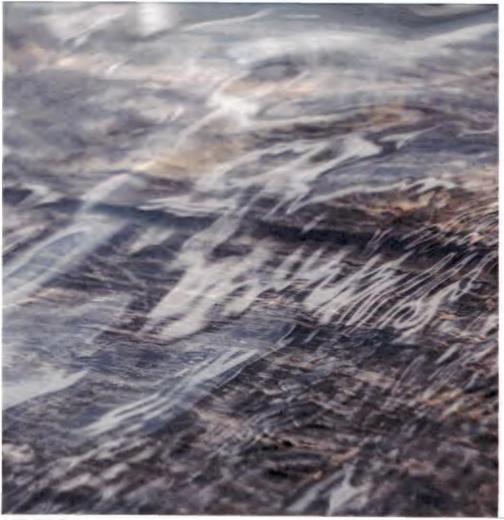
PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

## WHAT TO EXPECT UPON COMPLETION OF THE PHASE I WATER SYSTEM IMPROVEMENTS?

- Includes a New Well (No. 11) at WTP No. 3
- Will Increase WTP Capacity by Approximately 1.7 MGD
- Will Increase Total Water System Capacity from 9.2 MGD to 10.9 MGD
- Daphne Connection Can Be Used to Provide Additional Capacity



PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS



## PHASE 2 WATER SYSTEM IMPROVEMENTS (MAY 2024 COMPLETION)

- Develop New Well at WTP No. I
- Expand WTP No. I Capacity
- Develop New Well at WTP No. 3
- Expand WTP No. 3 Capacity by I MGD
- Goal of Expanding Total System Capacity from 10.9 MGD to 13.8 MGD by May 2024



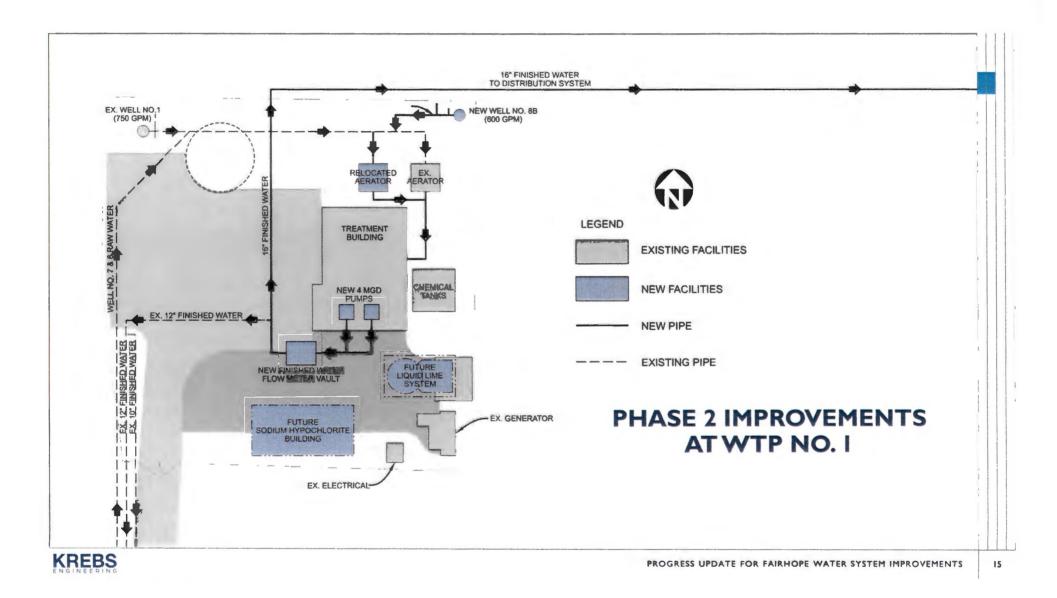
PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS



### PHASE 2 IMPROVEMENTS INCREASE CAPACITY AT WTP NO. I

- Develop New 0.9 MGD Well
- Increase Tray Aeration Capacity
- Increase Finished Water Pump Capacity
- Increase Chemical Feed Capacity
- Increase Distribution Capacity Leaving the WTP
- Increase Treatment Capacity from 2.4 MGD to 4 MGD

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS



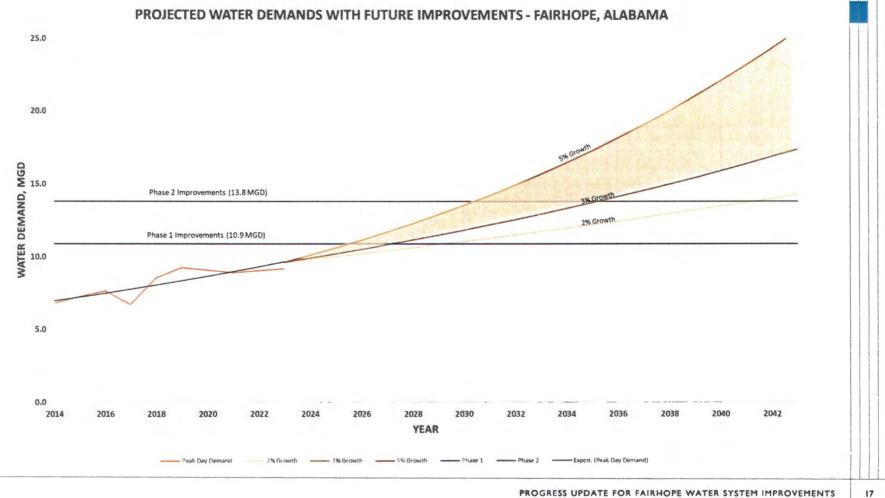


## PHASE 2 IMPROVEMENTS AT WATER TREATMENT PLANT NO. 3

- Develop I New Well
- Increase Finished Water Pump Capacity
- New Raw Water Transmission Main from New Well

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PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS



IPROVEME

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## PLANNING FOR FUTURE IMPROVEMENTS

- Water System Evaluation
- Hydraulic Modeling
- Pilot Well Exploration
  - Vicinity of St. Michael Way
  - Morphy Ave
  - Nichols Street
- Identify Recommended Water System Improvements
- Technical Memorandum to Summarize
  Water System Evaluation and
  Recommended Improvements

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PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

# **QUESTIONS?**

KREBSENG.COM



MONDAY, OCTOBER 9, 2023

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS