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.

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- 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.

Corey Martin, Council President Pro Tempore

Hanks, MMC City Clerk



City of Fairhope, AL June of 9 Softments 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:

1

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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, Oponness, 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: 3315691106 Vehicle: 3rd Eye ESG Demo / RevAMP / ASL-PD1868RH-RV0001 Stop IDF: D Name: Type: Status: Unimoren Stop Route: Stop Address: 212 Southchase C. / Fairhope, AL 38532 Contract: Customer Number: Confidence Level:







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7 PROPRIETARY AND CONFIDENTIAL

- DOVER

Heil[®] RevAMP[™] 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 hydraulic hoses or tubes that can leak or break



ENERGY

- More than 1,200 containers on an overnight battery charge (6-8 hours)
- No power required from a chassis diesel engine
- ♂ Type 2 AC charging with 208/240 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 suger, tapered from 30 inches to 24 inches, requires less energy than a typical compactor ram.
- Self-cleaning hopper to avoid material bridging
- Sturdy 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



Benefits

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

P3933 Environmental Cabo and Can in





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
- Fuel savings of up to 35% on diesel chassis; 100% fuel savings on electric chassis
- Z Easily 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 methods ised to drive the ejection simel
- ack=troug innovation (patent pending, provides tu reject capability indititition dump)
- eject des gnimproves stability at the landfil
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LIFT ARM

- ast 8-second cycle time and precise a mimotion enables ighly productive refise collection while on io te
- S are free smooth operation reduces driver fillique
- arm kick out lows for the collection of refuse in alleyways and other tight areas
- I ully electric arm is remarkably quiet and itas no hydrauliu hoses or tubes that can eak or break





ENERGY

- 46 W Battery Up to 400A available at 100V
- More than 1 200 container. an overnight battery charge (approx 6.8) ours to charge?
- No power equired from licit assidie ellegilicit
- # Type _ AC ultarging with 208, 240 VAC shop power



AUGER

- The auger tapered from 30 inches to 24 riches inclusive less energy than a typical compactor rate.
- Seficieaning hopper to avoid material bridging
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- Surface treatment on the hopper and auger is designed specifically her transformater with



No More Hydraulic Leaks





Charging

Charging Considerations





Heil RevAMP uses level 2

3rd 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

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Open architect for future expansion

17 PROPRIETARY AND CONFIDENTIAL

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



18

18 PROPRIETARY AND CONFIDENTIAL

Public Safety- Exoneration



19 PROPRIETAPY AND CONFIDENTIAL

- DOVER

Verif-Eye- Positive Service Verification





Blocked Containers

Identifying Container Location



Failed Set-Outs

A A



Recycling Contamination

**** 4 -1 2 1



Overloaded Containers



Tracking & Quantifying a Fleet in

Transit

Certif-Eye - What does it do?

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





- Odometer Value Current Odometer reading
- Distance Traveled Total miles driven
- F
- Fuei 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

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

KREBS



OVERVIEW OF DISCUSSION

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

KREBS

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS





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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

KREBS

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

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

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS



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. 1
- 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

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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 | 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





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

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS

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QUESTIONS?

KREBSENG.COM



MONDAY, OCTOBER 9, 2023

PROGRESS UPDATE FOR FAIRHOPE WATER SYSTEM IMPROVEMENTS 19