



510 N. Baker St.
Mount Dora, FL 32757
352-735-7126

DATE: January 21, 2025

TO: Honorable Mayor and City Council Members

FROM: Vince Sandersfeld, City Manager

SUBJECT: Request Approval of First Reading of **Ordinance No. 2025-01**, Amendment to Chapter 42, Traffic and Vehicles of the Mount Dora Code of Ordinances for School Zone Child Safety Initiative

Introduction:

This is a request for First Reading of Ordinance No. 2025-01 and hold hearing for second reading and adoption.

Call Up Item
Mayor Asks Attorney to Read Ordinance by Title Only
City Manager Background
Public Hearing
Discussion
Council Action

Discussion:

School zone speed detection systems and cameras play a crucial role in enhancing safety for our students and pedestrians around the schools in Mount Dora. Speed detection systems will help reduce vehicle speeds; will serve as a deterrent to reckless driving, and they will improve the overall safety of our children going to and leaving our schools.

The Florida Legislature has authorized municipalities to enact ordinances whereas they may install speed detection systems within the school zones, in an effort to improve the safety of children and pedestrians around the schools. Ordinance number 2025-01 is the first phase of the implementation of Mount Dora's School Zone Child Safety Initiative.

Pursuant to Florida Statutes, Section 166.041(4), Attachment No. 1, is the completed Ordinance Business Impact Estimate. The sequence of events leading to the presentation to the City Council are as follows: The City Council at their regularly scheduled meeting held on August 20, 2024, was provided a presentation on the merits of implementing a School Zone Child

Safety Initiative. At this meeting City Council directed staff to develop the program and associated ordinance.

Budget Impact:

There is no direct cost to the City. Codification of the amendment into the Code of Ordinances estimated at \$2,500.

Strategic Impact:

GOAL 2: Infrastructure / Public Safety

Objective 2.2. Enhance pedestrian safety-crosswalk & traffic calming solutions for schools within the City of Mount Dora

Recommendation:

City Council to approve First Reading of Ordinance No. 2025-01, School Zone Child Safety Initiative, and hold hearing for second reading and adoption.

Attachment(s):

1. Ordinance Business Impact Statement
2. Ordinance 2025-01 School Zone Child Safety Initiative (2025-01-13)

Prepared by: Jeanann Hand, City Clerk

Reviewed by: Michael Gibson, Chief of Police
Matthew Dodson, Budget Officer
Rita Meade, Finance Director
City Attorney, City Attorney
Jeanann Hand, City Clerk
Vince Sandersfeld, City Manager

Approved - 1/13/2025
Approved - 1/14/2025
Approved - 1/14/2025
Approved - 1/14/2025
Approved - 1/14/2025
Final Approval - 1/14/2025

ORDINANCE BUSINESS IMPACT ESTIMATE

Florida Statutes, Section 166.041(4)

ORDINANCE NUMBER: 2025-01

ORDINANCE TITLE: School Zone Child Safety Initiative

DEPARTMENT: Police Department

**MEETING DATE: January 21, 2025
February 4, 2025**

This form should be included in the agenda packet for the item under which the proposed ordinance is to be considered and must be posted on the City of Mount Dora's website by the time notice of the proposed ordinance is published.

ORDINANCE NO. 2025-01

AN ORDINANCE OF THE CITY OF MOUNT DORA, FLORIDA, AMENDING THE CITY CODE BY ESTABLISHING THE "SCHOOL ZONE CHILD SAFETY INITIATIVE"; CREATING CHAPTER 42, ARTICLE I, SECTION 42-4; PROVIDING THE AUTHORIZATION TO USE SPEED DETECTION SYSTEMS WITHIN THE CITY; PROVIDING FOR PROGRAM IMPLEMENTATION REQUIREMENTS; PROVIDING FOR DESIGNATION OF SCHOOL ZONES; PROVIDING FOR ENFORCEMENT PROCEDURES; PROVIDING FOR COLLECTION OF EVIDENCE, PUBLIC RECORDS, AND RETENTION REQUIREMENTS; PROVIDING FOR ANNUAL REPORTING REQUIREMENTS; PROVIDING FOR THE REMITTANCE OF COLLECTED FINES AND COSTS; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; PROVIDING FOR CODIFICATION; PROVIDING AN EFFECTIVE DATE.

This Business Impact Estimate is provided in accordance with section 166.041(4), Florida Statutes. If one or more boxes are checked below, this means the City is of the view that a business impact estimate is not required by state law¹ for the proposed ordinance, but the City is, nevertheless, providing this Business Impact Estimate as a courtesy and to avoid any procedural issues that could impact the enactment of the proposed ordinance. This Business Impact Estimate may be revised following its initial posting.

- The proposed ordinance is required for compliance with Federal or State law or regulation;
- The proposed ordinance relates to the issuance or refinancing of debt;
- The proposed ordinance relates to the adoption of budgets or budget amendments, including revenue sources necessary to fund the budget;
- The proposed ordinance is required to implement a contract or an agreement, including, but not limited to, any Federal, State, local, or private grant or other financial assistance accepted by the municipal government;
- The proposed ordinance is an emergency ordinance;

¹ See Section 166.041(4)(c), Florida Statutes.

- The ordinance relates to procurement; or
- The proposed ordinance is enacted to implement the following:
 - a. Development orders and development permits, as those terms are defined in s. 163.3164, and development agreements, as authorized by the Florida Local Government Development Agreement Act under ss. 163.3220-163.3243;
 - b. Comprehensive plan amendments and land development regulation amendments initiated by an application by a private party other than the City of Mount Dora;
 - c. Sections 190.005 and 190.046, Florida Statutes, regarding community development districts;
 - d. Section 553.73, Florida Statutes, relating to the Florida Building Code; or
 - e. Section 633.202, Florida Statutes, relating to the Florida Fire Prevention Code.

In accordance with the provisions of controlling law, the City hereby publishes the following information:

1. Summary of the proposed ordinance (must include a statement of the public purpose, such as serving the public health, safety, morals, and welfare):

The purpose and intent of the School Zone Child Safety Initiative is to protect the health, safety, and welfare of the citizens of the City of Mount Dora, especially its children, by authorizing the placement or installation and use of speed detection systems on roadways within the jurisdiction of the City that are properly maintained as school zones to promote traffic safety and student welfare, and to adopt a quasi-judicial system to enforce violations.

2. An estimate of the direct economic impact of the proposed ordinance on private, for-profit businesses in the City, if any:

- (a) An estimate of direct compliance costs that businesses may reasonably incur;

No direct impact to general businesses.

- (b) Any new charge or fee imposed by the proposed ordinance or for which businesses will be financially responsible; and

No new charges or fees are set forth in the ordinance.

- (c) An estimate of the City's regulatory costs, including estimated revenues from any new charges or fees to cover such costs.

No additional regulatory costs, staff administration only.

3. Good faith estimate of the number of businesses likely to be impacted by the proposed ordinance:

This ordinance is not anticipated to affect businesses.

4. Additional information the governing body deems useful (if any):

N/A

ORDINANCE #2025-01

AN ORDINANCE OF THE CITY OF MOUNT DORA, FLORIDA, AMENDING THE CITY CODE BY ESTABLISHING THE “SCHOOL ZONE CHILD SAFETY INITIATIVE”; CREATING CHAPTER 42, ARTICLE I, SECTION 42-4; PROVIDING THE AUTHORIZATION TO USE SPEED DETECTION SYSTEMS WITHIN THE CITY; PROVIDING FOR PROGRAM IMPLEMENTATION REQUIREMENTS; PROVIDING FOR DESIGNATION OF SCHOOL ZONES; PROVIDING FOR ENFORCEMENT PROCEDURES; PROVIDING FOR COLLECTION OF EVIDENCE, PUBLIC RECORDS, AND RETENTION REQUIREMENTS; PROVIDING FOR ANNUAL REPORTING REQUIREMENTS; PROVIDING FOR THE REMITTANCE OF COLLECTED FINES AND COSTS; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; PROVIDING FOR CODIFICATION; PROVIDING AN EFFECTIVE DATE.

WHEREAS, during the 2023 state legislative session, the Florida Legislature passed House Bill (“HB”) 657, which provides that a municipality may enforce the applicable speed limit on a roadway properly maintained as a school zone through the use of a speed detection system; and

WHEREAS, on May 31, 2023, Governor Ron DeSantis signed HB 657 into law, codified as Chapter 2023-174, Laws of Florida; and

WHEREAS, HB 657 authorizes a municipality to place or install, or contract with a vendor to place or install, speed detection systems in accordance with certain technical specifications established by the Florida Department of Transportation; and

WHEREAS, HB 657 provides that a municipality may issue notices of violation and may authorize a law enforcement officer or traffic infraction enforcement officer to issue uniform traffic citations for violations of §§ 316.1895 and 316.183, *Florida Statutes*, that are captured by speed detection systems during specified time periods and further provides for notice to the registered owner of the subject vehicle, hearing procedures, appellate remedies, and the assessment and remittance of civil penalties; and

WHEREAS, HB 657 requires municipalities that elect to operate a school speed zone detection program to implement a public awareness campaign at least thirty (30) days before commencing with the enforcement of violations and to annually report information about the program to both the public and the Florida Department of Highway Safety and Motor Vehicles; and

WHEREAS, HB 657 restricts the location and use of speed detection systems to school zones that the City determines constitute a heightened safety risk warranting additional enforcement measures based on data or other evidence presented at a public hearing; and

WHEREAS, the City desires to deter drivers from speeding through school zones and provide a supplemental means for the enforcement of unlawful speed violations by enacting an ordinance to implement a school zone speed enforcement program; and

WHEREAS, the City of Mount Dora Police Department has collected and provided data to the City Council demonstrating that motor vehicles routinely exceed applicable school zone speed limits in certain school zones within the jurisdiction of the City; and

WHEREAS, the City Council has considered the traffic data and evidence provided by the City of Mount Dora Police Department supporting the installation and operation of speed detection systems on roadways maintained as school zones and has determined that each school zone where a speed detection system is to be placed or installed constitutes a heightened safety risk that warrants additional enforcement measures; and

WHEREAS, the City Council finds that motor vehicles speeding in school zones are unacceptable hazards that threaten the health, safety, and welfare of students and pedestrians in the City of Mount Dora, and that enforcement of applicable speed limits in school zones during school sessions through the use of a speed detection system may reduce instances of speeding in school zones, the City Council wishes to implement a school zone speed detection program pursuant to the rules and regulations of HB 657 and other applicable state law; and

WHEREAS, the City Council finds that this Ordinance serves a legitimate governmental purpose and is in the best interests of the public health, safety, and welfare of the citizens of Mount Dora, Florida.

Note: Underlined words of this constitute the new text of the City of Mount Dora Code of Ordinances, asterisks (***) indicate an omission from the original text of the Code of Ordinances, City of Mount Dora, which is intended to remain unchanged, and ~~strikethrough~~ constitutes deletions from the original Code of Ordinances.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MOUNT DORA, FLORIDA, AS FOLLOWS:

SECTION 1. LEGISLATIVE FINDINGS AND INTENT. The City of Mount Dora has complied with all requirements and procedures of Florida Law in processing this Ordinance. The above recitals are hereby adopted.

SECTION 2. ESTABLISHING CITY OF MOUNT DORA CODE OF ORDINANCES, CHAPTER 42, TRAFFIC AND VEHICLES, ARTICLE I, SECTION 42-4, SCHOOL ZONE CHILD SAFETY INITIATIVE. City of Mount Dora Code Ordinances, Chapter 42, Traffic and

Vehicles, Article I, Section 42-4, School Zone Child Safety Initiative, is hereby established as follows:

CHAPTER 42 – TRAFFIC AND VEHICLES
ARTICLE I. – IN GENERAL

* * * *

Sec. 42-4. – School Zone Child Safety Initiative.

- (a) Purpose and Intent. The purpose and intent of the School Zone Child Safety Initiative is to protect the health, safety, and welfare of the citizens of the City of Mount Dora, especially its children, by authorizing the placement or installation and use of speed detection systems on roadways within the jurisdiction of the City that are properly maintained as school zones to promote traffic safety and student welfare, and to adopt a quasi-judicial system to enforce violations. This Section provides a supplemental means of enforcing unlawful speed violations in school zones and shall not prohibit a law enforcement officer from issuing a uniform traffic citation for a traffic violation in accordance with F.S. Chapter 316.
- (b) Definitions. For purposes of this Section, the following terms shall have the stated meanings, except where the context clearly indicates a different meaning:

FLHSMV shall mean the Florida Department of Highway Safety and Motor Vehicles.

FDOT shall mean the Florida Department of Transportation.

Hearing procedures shall mean the procedures set forth in a corresponding City resolution governing the notice, scheduling, and conducting of hearings before a local hearing officer.

Law enforcement officer shall mean, as defined by F.S. § 943.10(1), any person who is elected, appointed, or employed full time by a municipality or the state or any political subdivision thereof; who is vested with authority to bear arms and make arrests; and whose primary responsibility is the prevention and detection of crime or the enforcement of the penal, criminal, traffic, or highway laws of the state.

Local hearing officer shall mean the special magistrate appointed by the City Council, as permitted by law.

Motor vehicle shall mean, as defined by F.S. § 316.003, a self-propelled vehicle not operated upon rails or guideway, but not including any bicycle, electric bicycle, motorized scooter, electric personal assistive mobility device, mobile carrier, personal delivery device, swamp buggy, or moped.

Notice of violation shall mean the written notification sent to the registered owner of a vehicle after a school zone speed infraction by that vehicle has been captured by a speed detection system and thereafter reviewed and approved by a law enforcement officer or traffic infraction enforcement officer. A notice of violation must be in the form and include the contents prescribed by F.S. § 316.1896, as it may be amended.

School zone shall mean that portion of a street or highway established as a school zone pursuant to F.S. § 316.1895, as may be amended.

School zone speed enforcement program shall mean the regulations and procedures governing the use of speed detection systems in school zones within the jurisdiction of the City, as provided for by applicable law and set forth in Chapter 42, Article I, Section 42-4 of this Code.

School zone speed infraction shall mean a violation of F.S. §§ 316.183 or 316.1895, captured by a speed detection system within a school zone during the hours provided for by applicable law.

School zone speed limit shall mean the regularly posted or reduced posted speed limit within a school zone pursuant to F.S. § 316.1895.

Speed detection system shall mean a portable or fixed automated system used to detect a motor vehicle's speed using radar or LiDAR and to capture a photograph or video of the rear of a motor vehicle that exceeds the speed limit in force at the time of the violation. This term is synonymous with the term "Speed Detection System" defined in F.S. § 316.003(82), as it may be amended.

Traffic infraction enforcement officer shall mean a person who meets the qualifications established by F.S. § 316.640, as it may be amended.

Uniform traffic citation shall mean the citation issued to the registered owner of a vehicle for a school zone speed infraction, in the form and including the contents prescribed by F.S. § 316.1896, as it may be amended.

- (c) Use of speed detection systems. Pursuant to the authority granted under F.S. Chapter 316, the City hereby elects to use speed detection systems to enforce school zone speed limits within the City's jurisdiction. The City will implement the speed detection system within the City's boundaries in a manner consistent with the placement and installation specifications established by the FDOT, as may be amended from time to time, to enforce unlawful speed violations on roadways maintained as school zones.
- (d) Program administration.
- (1) The Mount Dora Police Department, in cooperation with any necessary City staff, shall be enabled and empowered by this Section to assist with the City's school zone speed enforcement program. This Section shall further enable the City to enter into agreements with one or more vendors to place or install speed detection systems and carry out services consistent with the implementation and enforcement of the provisions of F.S. § 316.1896, subject to any other applicable state law requirements and this Section.
 - (2) As permitted and defined by applicable law and as set forth in this Section, the City may utilize its code enforcement special magistrate as its local hearing officer, who shall have

jurisdiction to conduct proceedings challenging the issuance of a notice of violation, in accordance with State law and City Code.

(e) Program Implementation Requirements.

- (1) Vendor contract. Pursuant to F.S. § 316.0776, before the City contracts or renews a contract with a vendor to place or install a speed detection system in a school zone, the contract or contract renewal must be approved by the City Council at a regular or special meeting of the Council. The contract or contract renewal may not be heard on the consent agenda and the public must be allowed to comment pursuant to the City's public comment policies.
- (2) Signage requirements. The installation and operation of speed detection systems, including required signage, shall be in accordance with F.S. Chapter 316, all applicable regulations of the FDOT and the FLHSMV, and any other terms pursuant to a written agreement that the City may enter into with a vendor.
- (3) Public Awareness. At least 30 days before initiating enforcement under the speed detection system program, the City shall publicly announce and conduct a public awareness campaign detailing the proposed use of the speed detection systems and the specific date of program commencement. During the campaign, only a warning may be issued to the registered owner of a motor vehicle for a school speed zone infraction and a fine shall not be imposed.

(f) Designation of school zones. Having considered evidence at a public hearing supporting the installation and operation of speed detection systems on certain roadways maintained as school zones within the jurisdiction of the City, the school zones on the roadways surrounding the following schools constitute a heightened safety risk that warrants additional enforcement measures by installation or placement of speed detection systems pursuant to F.S. § 316.008. Additional speed detection systems may be approved via amendment to this subsection in accordance with applicable law.

- (1) Triangle Elementary School - 1707 Eudora Road, Mount Dora, FL 32757
- (2) Round Lake Charter - 31333 Round Lake Road, Mount Dora, FL 32757
- (3) Mount Dora Middle School - 1405 Lincoln Avenue, Mount Dora, FL 32757

(g) Enforcement procedures.

- (1) General powers. The Mount Dora Police Department, acting on behalf of the City, shall be authorized to enforce the applicable speed limit on a roadway properly maintained as a school zone pursuant to F.S. § 316.1895, through the use of a speed detection system for the detection of speed and capturing of photographs or videos for violations in excess of 10 miles per hour over the speed limit in force at the time of the violation.
- (2) Review of speed detection system images. Information captured by a speed detection system shall be reviewed by an authorized employee or agent of the City of Mount Dora.

- (3) School zone speed infraction. The applicable speed limit on a roadway properly maintained as a school zone may be enforced through the capturing of a violation by a speed detection system as follows:
- (i) For a violation of F.S. § 316.1895 in excess of 10 miles per hour over the school zone speed limit which occurs within 30 minutes before through 30 minutes after the start of a regularly scheduled breakfast program.
 - (ii) For a violation of F.S. § 316.1895 in excess of 10 miles per hour over the school zone speed limit which occurs within 30 minutes before through 30 minutes after the start of a regularly scheduled school session.
 - (iii) For a violation of F.S. § 316.183 in excess of 10 miles per hour over the posted speed limit during the entirety of a regularly scheduled school session.
 - (iv) For a violation of F.S. § 316.1895 in excess of 10 miles per hour over the school zone speed limit which occurs within 30 minutes before through 30 minutes after the end of a regularly scheduled school session.
- (4) Notice of violation. Within 30 days after a school zone speed infraction, a notice of violation shall be sent by first-class mail to the registered owner of the motor vehicle involved in the violation in accordance with F.S. § 316.1896. A registered owner who receives a notice of violation may, within 30 days:
- (i) Pay the fine of \$100.00, as fixed by F.S. §§ 318.18(3)(d), as it may be amended; or
 - (ii) Submit an affidavit establishing an exception to liability pursuant to F.S. § 316.1896(8), as it may be amended; or
 - (iii) Request a hearing.
- (5) Hearing procedures and appeals. Hearings to contest notices of violations shall be scheduled, noticed, and conducted in accordance with F.S. §§ 316.0083(5) and 316.1896. If a notice of violation is upheld at the conclusion of a hearing, the local hearing officer shall assess the penalty authorized by statute and may also require the petitioner to pay municipal administrative costs of the hearing not to exceed an additional \$250.00 per violation. An aggrieved party may appeal a final administrative order of the local hearing officer in accordance with F.S. § 316.1896.
- (6) Defenses and penalties. The enforcement of school zone speed infractions, including the issuance of notices of violation and uniform traffic citations, the processing of affidavits to assert an exception to liability, and the assessment of fines, shall comply with F.S. § 316.1896.
- (7) Issuance of a uniform traffic citation. A law enforcement officer or traffic infraction enforcement officer shall be authorized, pursuant to F.S. § 316.1896, to issue uniform traffic citations for violations of F.S. §§ 316.1895 or 316.183 as authorized by F.S. § 316.008(9). If the registered owner of a vehicle does not timely pay the fine reflected on the notice of violation, submit a sufficient affidavit, or request a hearing, a uniform traffic

citation shall be issued to the registered owner and transmitted to the Lake County Clerk of the Court for disposition by the county court.

(h) Collection of evidence, public records, and retention requirements.

(1) In accordance with F.S. § 316.1896, a speed detection system in a school zone may not be used for remote surveillance. The collection of evidence by a speed detection system to enforce school zone speed infractions, or user-controlled pan or tilt adjustments of speed detection components, do not constitute remote surveillance. Recorded video or photographs collected as part of a speed detection system in a school zone may only be used to document school zone speed infractions and for purposes of determining criminal or civil liability for incidents captured by the speed detection system incidental to the permissible use of the speed detection system.

(2) Any recorded video or photograph obtained via a speed detection system must be destroyed within 90 days after the final disposition of the recorded event, pursuant to F.S. § 316.1896. Written notice that such records have been destroyed shall be provided by December 31st of each year. All public records related to the administration of this Section shall be maintained in accordance with Florida law and all requests for such records shall be addressed in accordance with F.S. Chapter 119, and any other applicable state law.

(i) Annual reporting requirements. The City, with the assistance of the Mount Dora Police Department and/or the City's vendor, shall annually report on the City's school zone speed enforcement program to the public and to the FLHSMV in accordance with F.S. §§ 316.0776 and 316.1896, as they may be amended. Pursuant to F.S. § 316.0776(3)(c), the compliance or sufficiency of compliance with this Section may not be raised in a proceeding challenging a notice of violation for a school zone speed infraction.

(j) Remittance of collected fines and costs. All fines and costs collected pursuant to this Section must be remitted in accordance with F.S. §§ 316.1896 and 318.18, and any other applicable State law.

SECTION 4. CODIFICATION AND SCRIVENER'S ERRORS.

A. The revisions to the City of Mount Dora Code of Ordinances, Chapter 42, Article 1, Section 42-4, as set forth above, shall be codified in the City of Mount Dora Code of Ordinances.

B. The sections, divisions and provisions of this Ordinance may be renumbered or re-lettered as deemed appropriate by the codifier of the City of Mount Dora Code of Ordinances.

C. Typographical errors and other matters of a similar nature that do not affect the intent of this Ordinance, as determined by the City Clerk and City Attorney, may be corrected with the endorsement of the City Manager, or designee, without the need for a public hearing.

SECTION 5. SAVINGS CLAUSE. All prior actions of the City pertaining to the City of Mount Dora Code of Ordinances, Chapter 42, Traffic and Vehicles, Section 42-4, as well as any

and all other applicable matters set forth herein, are hereby ratified and affirmed consistent with the provisions of this Ordinance.

SECTION 6. SEVERABILITY. If any section, sentence, phrase, word, or portion of this Ordinance is determined to be invalid, unlawful or unconstitutional, said determination shall not be held to invalidate or impair the validity, force or effect of any other section, sentence, phrase, word, or portion of this Ordinance not otherwise determined to be invalid, unlawful, or unconstitutional.

SECTION 7. CONFLICTS. All ordinances or part of ordinances in conflict with this Ordinance are hereby repealed; provided, however, that any code or ordinance that provides for an alternative process to effectuate the general purposes of this Ordinance shall not be deemed a conflicting code or ordinance

SECTION 8. EFFECTIVE DATE. This Ordinance shall become effective immediately upon its passage and adoption; however, the enforcement provisions of this Ordinance shall not become effective until 30 days after the public awareness campaign set forth in Section 42-4(e)(3) above.

[Signatures on Following Page]

FIRST READING: _____ 2025

SECOND READING: _____ 2025

PASSED AND ADOPTED this __ day of __, 2025.

James Homich, Mayor

ATTEST:

Jeanann Hand, City Clerk

For the use and reliance of City of Mount Dora only.
Approved as to form:

Patrick Brackins, City Attorney



510 N. Baker St.
Mount Dora, FL 32757
352-735-7126

DATE: January 21, 2025
TO: Honorable Mayor and City Council Members
FROM: Vince Sandersfeld, City Manager
SUBJECT: Donnelly Street Boardwalk Replacement

Introduction:

This is an opportunity for staff to provide any updates for this important pedestrian walkway located at Donnelley Street (west side) from Limit Avenue to the Waterman Village bridge.

Discussion:

Staff to provide status updates. As of the printing of this staff report, the City is waiting for grant determination by the Florida Division of Emergency Management. Anticipated to receive grant feedback January 2025.

Budget Impact:

Project cost for replacement of pedestrian walkway \$1.5 million. City is seeking a grant from the Florida Division of Emergency Management.

Strategic Impact:

Objective 1.2. Enhance mobility, connectivity, and expand trail network
GOAL 2: Infrastructure / Public Safety
Objective 2.2. Enhance pedestrian safety-crosswalk & traffic calming solutions
Objective 2.4. Sustain City Infrastructure

Recommendation:

Informational item.

Attachment(s):

Prepared by: Jeanann Hand, City Clerk
Reviewed by: GEORGE MAREK, Public Works Director
Jeanann Hand, City Clerk
Vince Sandersfeld, City Manager

Approved - 1/6/2025
Approved - 1/6/2025
Final Approval - 1/6/2025



510 N. Baker St.
Mount Dora, FL 32757
352-735-7126

DATE: January 21, 2025
TO: Honorable Mayor and City Council Members
FROM: Vince Sandersfeld, City Manager
SUBJECT: Odor Issues

Introduction:

Project: Odor issues and status of City's Wastewater Plant #2

Discussion:

City utility staff to provide updates.

Wastewater Treatment Plant #2 (Located on US Highway 441). City's Web Page Link:

<https://ci.mount-dora.fl.us/1459/Wastewater-Treatment-Plant-2>

Budget Impact:

City's Utilities Department has budget items for on-going maintenance items.

Strategic Impact:

GOAL 2: Infrastructure / Public Safety

Recommendation:

Informational Item.

Attachment(s):

1. DRAFT.Mount Dora Q4-2024 Report.KMH

Prepared by: Vince Sandersfeld, City Manager
Reviewed by: Andrew Marsian, Director of Utilities and Plant Operations
Jeanann Hand, City Clerk
Vince Sandersfeld, City Manager

Approved - 1/6/2025
Approved - 1/10/2025
Final Approval - 1/10/2025

January 3, 2025

DEP_CD@floridaDEP.gov

Re: **Quarter 4, 2024 Progress Report**

City of Mount Dora

CO#23-0151

As required by item 6.h. of the Consent Order, this quarterly report has been prepared to update the Department on the status of the work being performed and the projected work for the upcoming 12 months. The Odor Control Plan (OCP) was submitted at the end of the Quarter 1, 2024 and was approved by FDEP in early second quarter 2024.

Equipment procurement began immediately upon approval of the plan by the Department. The study began by May 9, 2024. The equipment deployed included seven (7) hydrogen sulfide (H₂S) sensors at locations 3, 4, 6, 7, 8, 9, and 10 shown on Figure 1 and Figure 2. Four (4) mercaptan sensors were installed at locations: 4, 5, 6, and 8, concurrent with the plan. Four additional hydrogen sulfide monitoring devices were received and deployed on May 23, 2024 at locations 1, 2, 5, and 11. A toll-free number and voice mailbox was established on May 3, 2024 for residents within the study area to call in and note odor events. Data from weather stations, hydrogen sulfide monitoring devices, and mercaptan monitoring devices were collected, while the voice mailbox was closely monitored. An additional location, location 12, was added at the beginning of October. The location was further north of location 9, within the Wolf Branch Sink.

Data from the loggers was collected weekly. There were loggers that were unable to collect data due to depleted battery life. Locations 8 and 9 had more than 2 consecutive days of data not captured. Each respective logger had a total of A, B, and C days of data not collected between October and November. The data collection ran for 6 months, until November 14, which the equipment was retrieved, and the data was collected.

The odor threshold for H₂S and Methyl Mercaptan is 0.5 to 1,500 ppb and 0.5 ppm, respectively. The H₂S has a range because of the variable sensitivity of peoples sense of smell. The low level is based on individuals with a highly sensitive sense of smell, while the high limit is where everyone would be able to detect the odor. According to OSHA, the range of 10 to 1,500 ppb is where the sulfur or "rotten egg smell" is first noticeable to some. Prolonged exposure to concentrations greater than 1,500 ppb have been known to cause nausea, tearing of the eyes, headaches, or loss of sleep. Table 1, below, shows the concentrations of H₂S and the corresponding symptoms or effects.

The voice mailbox was checked several times per day, Monday through Friday, and during late morning and late evening on Saturdays and Sundays during Q4. There were a total of 834 recorded odor event observations made by 178 residents. Observations varied by time as well as the duration the odor lasted. Events were noticed during the following times: 7% between 12:00 AM and 6:00 AM,

58% between 6:00 AM and 12:00 PM, 20% between times of 12:00 PM and 6:00 PM, and 16% between 6:00 PM to 12:00 AM.

Table 1: OSHA Symptoms for H2S Concentrations

H ₂ S Concentration (ppb)	Symptoms
0.11 – 0.33	Typical background concentrations
10 – 1,500	Odor threshold (rotten egg smell noticeable)
1,500 – 5,000	Prolonged exposure may cause nausea, tearing of eyes, headaches or loss of sleep
20,000	Possible fatigue, loss of appetite, headache, irritability, poor memory
50,000 – 100,000	Slight conjunctivitis (“gas eye”) and respiratory tract irritation after 1 hour
100,000	Coughing, eye irritation, loss of smell after 2-15 minutes, altered breathing, drowsiness, throat irritation after 1 hour
100,000 – 150,000	Loss of smell
200,000 – 300,000	Marked conjunctivitis and respiratory tract irritation after 1 hour; Pulmonary edema from prolonged exposure
500,000 – 700,000	Staggering, collapse in 5 minutes, serious damage to the eyes in 30 minutes. Death in 30-60 minutes
700,000 – 1,000,000	Rapid unconsciousness, or immediate collapse within 1 to 2 breaths, death within minutes
1,000,000 – 2,000,000	Nearly instant death

There were four additional silonite canister tests performed, two on November 14, and two on November 26. The two locations on November 14 were at the WWTF above the equalization (EQ) basin and in front of a residence in the Stoneybrook community. The two locations on November 26 were at the LS#47 vent (location 8) and in front of a residence in the Sullivan Ranch community. Locations were determined by residence observations and the address was in the direction where the wind was consistently blowing towards that day. Sample results are currently being evaluated and compared to previous sample results and will be discussed in the updated odor control plan.

Weather data was obtained from the weather station located on the ground storage tank at the James P. Snell WWTF and at the weather station located near 30238 Tokara Terrace within the Sullivan Ranch Community. Wind direction, wind speed, precipitation, and pressure were taken from these weather stations every day in increments of 5 minutes. Wind direction is defined as the direction in which the wind is coming from.

The analysis of Q4 data included the following observations:

1. Approximately 29% of resident odor observations in Q4 had an northeast, north-northeast, or east-northeast wind, and only 19% had north, northwest, north-northwest, or west-

- northwestern wind. Any type of southern wind occurred 33% of the time when residents submitted an observation. Eastern winds were recorded for 10% of the odor observations.
2. There was at least 1 daily odor observation. For the five days with most observations made, only 1 day recorded larger concentrations of H2S at WWTF#2 than outside the facility limits (10/25). Only 1 day recorded larger concentrations of H2S at a lift station (LS#47) than the surrounding area (10/1). Three of the five days recorded primarily SW winds, while the other two days had NW winds. Outside contributors should be investigated.
 3. Methyl Mercaptan sensors did not yield concentrations equal to or greater than 0.5 ppm.
 4. The maximum concentration of H2S measured at the loggers was found to be slightly higher than Q3 maximum concentrations. October measured H2S as approximately 350 ppb higher in concentration compared to Q3, while November measured H2S to be approximately 50 ppb higher compared to Q3. Maximum concentrations were typically higher in Sullivan Ranch and at the northern fence line of WWTF#2 in October. In November, maximum concentrations were substantially lower in Sullivan Ranch, by approximately 1,000 ppb, but higher at WWTF#2 by approximately 450 ppb. Maximum concentrations of 1,000 ppb or greater of H2S at WWTF#2 occurred on two days (10/25 and 11/14), whereas concentrations over 1,000 ppb were found on at least 7 days outside of the facility with predominately southwestern winds, see Table 3.

The City had completed upgrades to the odor control system at the headworks of WWTF#2. Additionally, the City began injecting a solution, DAZZel, into the influent. This chemical reduces odors by breaking down the chemical structure of odorous compounds, see Appendix B for additional information. There were also Hi-Vent odor neutralizers installed on ten lift stations, shown in Figure 4.

Within the next month, the updated odor control plan will be compiled and submitted to FDEP for review. Within 4 months, the City will submit the complete application for a wastewater permit specific to the modifications proposed within the Updated Odor Control Plan if a permit is required for such modifications. Within 6 months, the wastewater permit is to be approved for the City to begin soliciting contractors to install the upgrades. Within 12 months, construction and installation of the upgrades should be underway. Upgrades should be completed within 18 months.

Please contact me if you have any questions at steve.romano@kimley-horn.com or 321-239-5958.

KIMLEY-HORN AND ASSOCIATES, INC.



Steve Romano, PE
Vice President

Table 2: Quarter 4 Five Days of Most Odor Observations and Respective Measured Maximum H₂S Concentrations

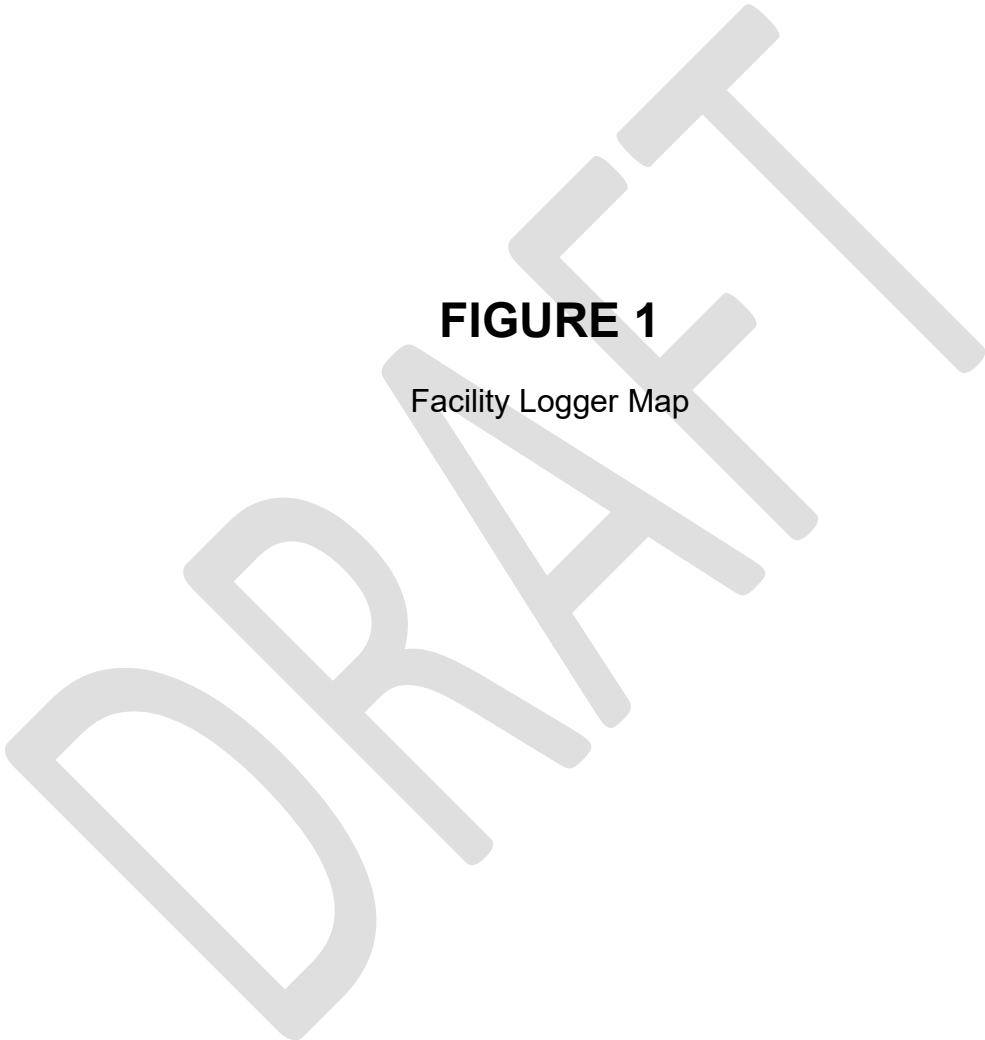
	Q4 Maximum H ₂ S Concentration (ppb)				
	10/1/2024 (SW Wind)	10/14/2024 (West/NW Wind)	10/15/2024 (NW Wind)	10/24/2024 (West/SW Wind)	10/25/2024 (SW Wind)
Location 1	9	91	122	144	507
Location 2	5	120	47	369	502
Location 3	33	115	183	295	1158
Location 4	4	165	168	260	552
Location 5	0	4	37	52	123
Location 6	60	379	14	14	1179
Location 7	34	0	185	32	48
Location 8	2072	351	204	146	461
Location 9	1409	1642	322	265	837
Location 10	502	1730	19	382	113
Location 11	166	127	19	84	55
Location 12	1218	2136	301	501	530

Table 3: Q4 Maximum H₂S Concentrations by Location

	October (10/1 - 10/31)				November (11/1-11/14)				Lift Station Vent Compared to Logger Location	WWTF Equalization Tank Compared to Logger Location
	Date (Calls)	Time of H ₂ S Concentration Recording	H ₂ S (ppb)	Wind Dir.	Date (Calls)	Time of H ₂ S Concentration Recording	H ₂ S (ppb)	Wind Dir.		
Location 1	10/31/2024 (9)	9:47 PM	240	East	11/14/2024 (35)	4:05 AM	910	ENE	N/A	East
Location 2	10/26/2024 (38)	2:39 AM	556	ENE	11/14/2024 (35)	4:09 AM	794	ENE	N/A	North
Location 3	10/25/2024 (90)	11:36 PM	1158	SW	11/14/2024 (35)	4:10 AM	980	ENE	N/A	South
Location 4	10/26/2024 (38)	2:28 AM	678	ENE	11/14/2024 (35)	4:08 AM	1048	ENE	N/A	West
Location 5	10/27/2024 (39)	9:40 PM	164	East	11/8/2024 (9)	1:45 AM	592	East	West	East/SE
Location 6	10/28/2024 (13)	2:06 AM	1450	NE	11/11/2024 (26)	6:12 AM	1901	South	East	NW
Location 7	10/15/2024 (48)	2:42 AM	185	SW	11/1/2024 (16)	7:11 AM	128	ENE	East	SW
Location 8	10/1/2024 (91)	4:40 AM	2072	SSW	11/11/2024 (26)	5:46 PM	100	South	North	WNW
Location 9	10/14/2024 (48)	7:01 AM	1642	SW	11/1/2024 (16)	1:19 AM	278	ENE	South	WNW
Location 10	10/14/2024 (48)	6:16 AM	1730	SW	11/11/2024 (26)	5:46 PM	100	South	South	West
Location 11	10/16/2024 (18)	2:17 AM	262	North	11/11/2024 (26)	12:30 PM	18	South	SSE	WNW
Location 12	10/14/2024 (48)	6:46 AM	2136	SW	11/12/2024 (26)	1:33 AM	1426	North	South	WNW


FIGURE 1

Facility Logger Map





Legend

 Proposed Loggers

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 PHONE: 407-898-1511
 WWW.KIMLEY-HORN.COM

Odor Control Plan
 PREPARED FOR
City of Mount Dora

MOUNT DORA FLORIDA

Odor Control Plan
Odor Logger Facility Map

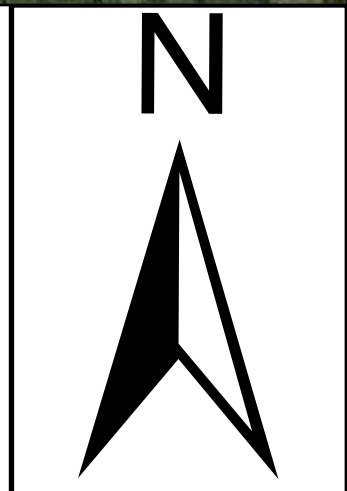
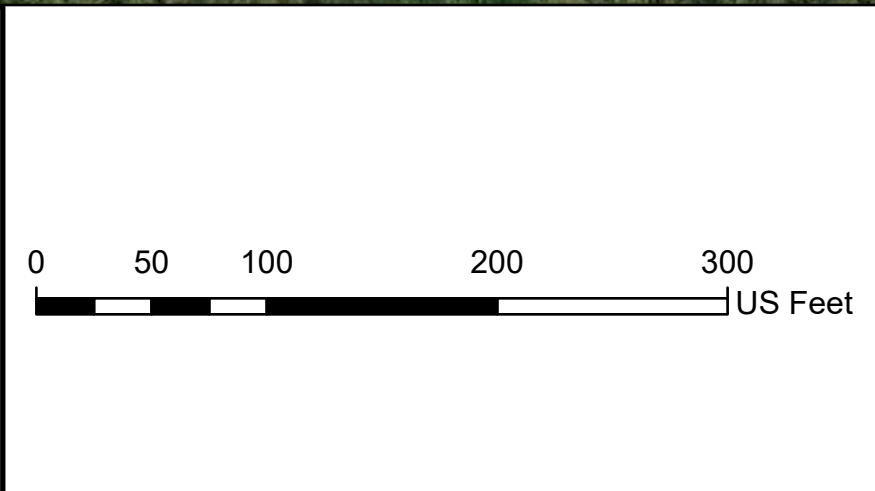


FIGURE 2

Study Area Logger Map

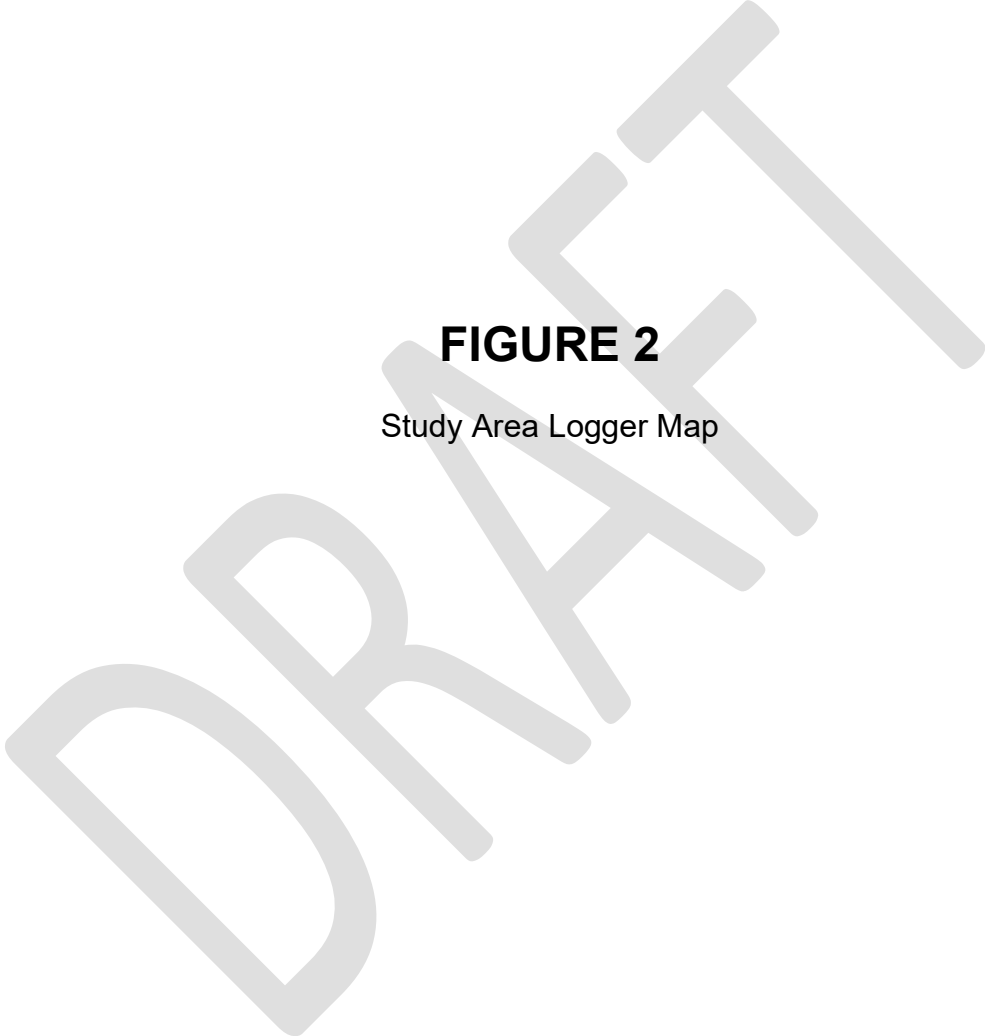
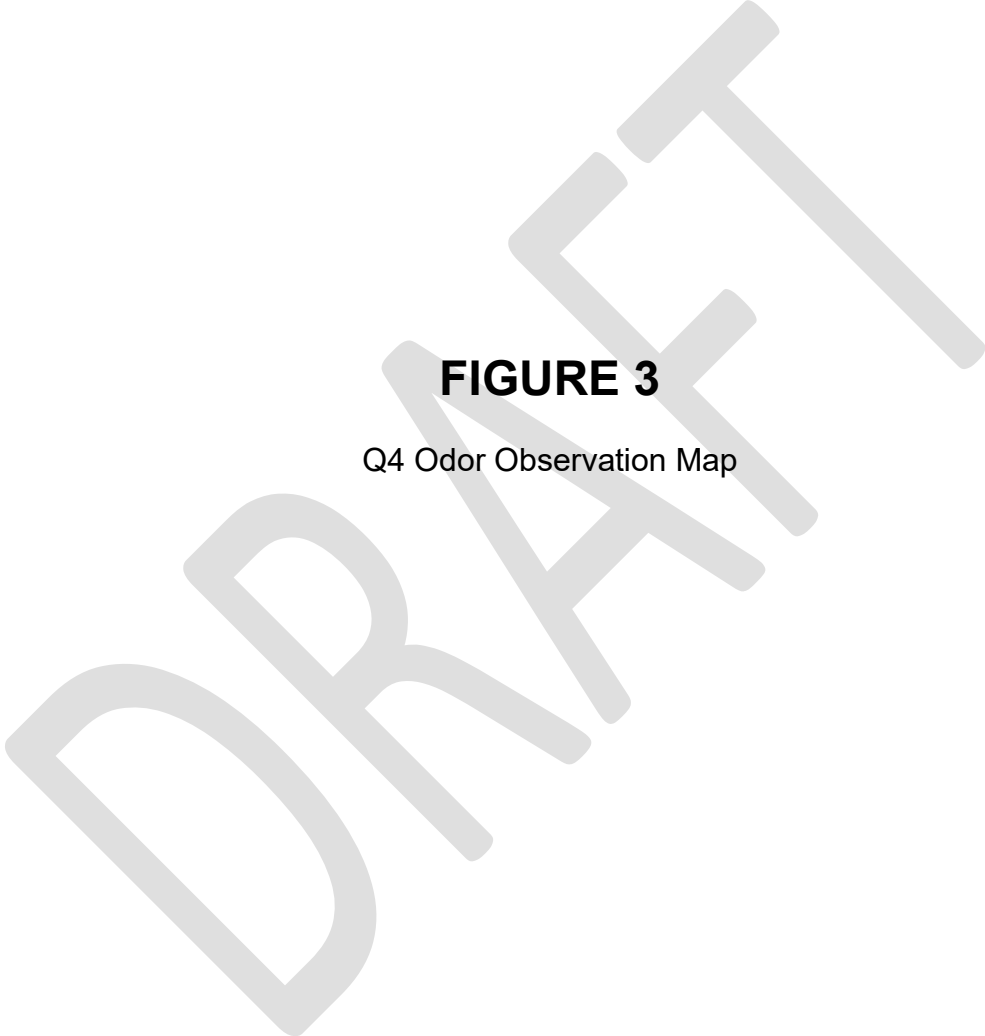
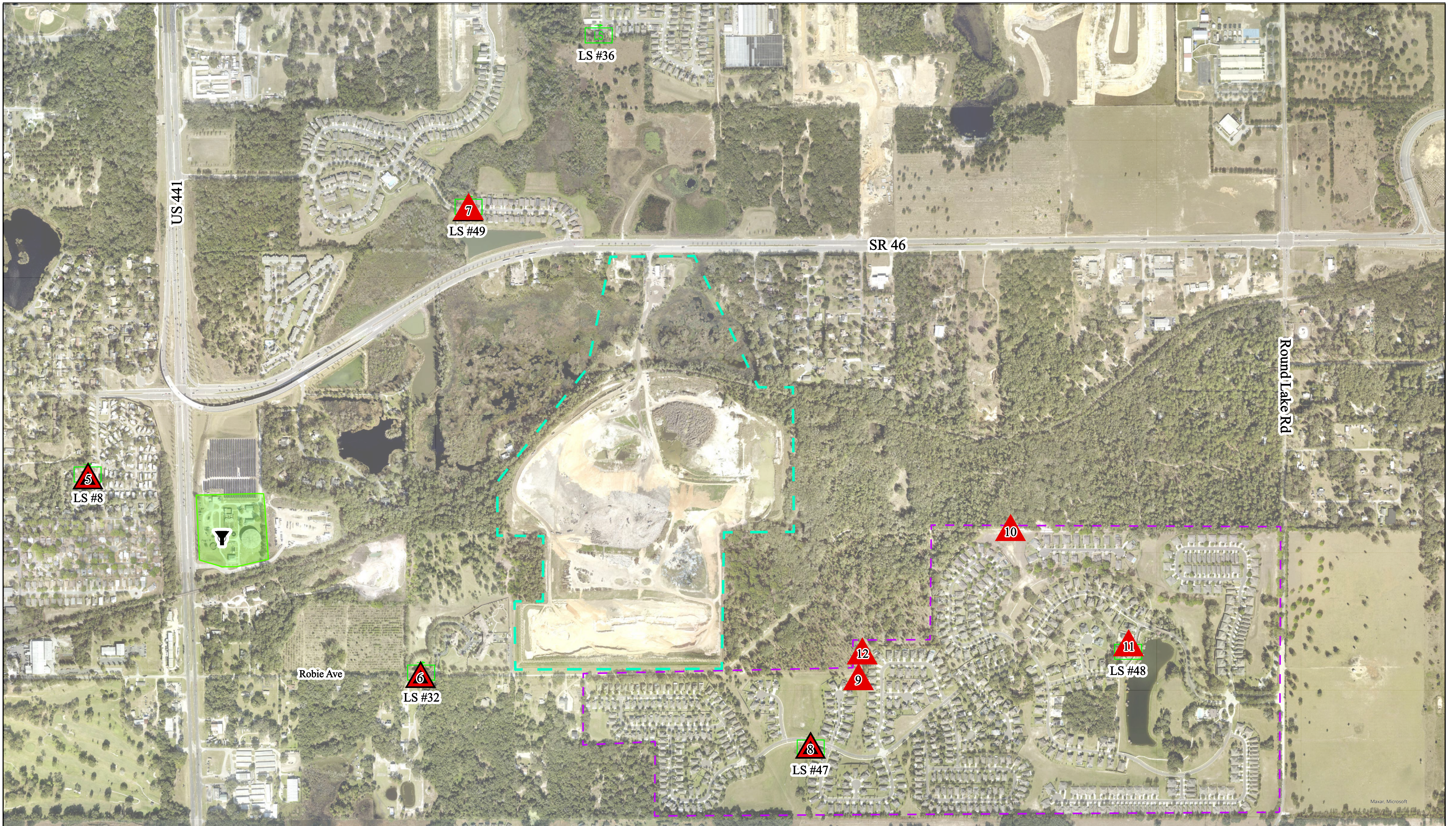


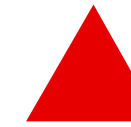






FIGURE 3

Q4 Odor Observation Map





Legend

-  Hydrogen Sulfide Odor Logger
-  Hydrogen Sulfide & Mercaptan Odor Logger
-  WWTP No. 2
-  WWTP No. 2 Extents
-  Lift Station
-  C&D Landfill Extents
-  Sullivan Range Community Extents

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Odor Control Plan
 PREPARED FOR
City of Mount Dora
 MOUNT DORA FLORIDA

Odor Control Plan
 Service Area
Odor Logger Locations

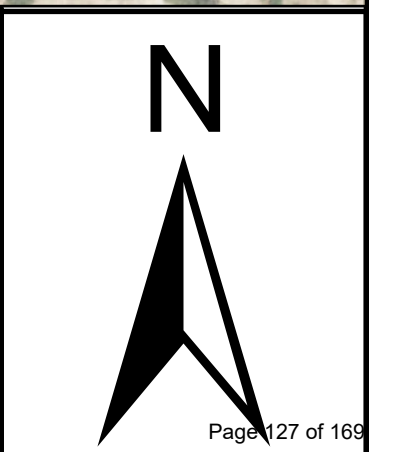
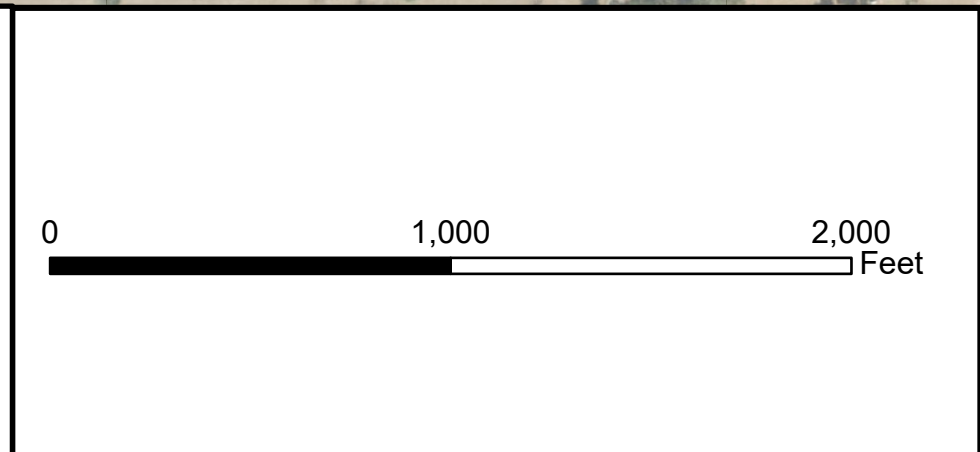
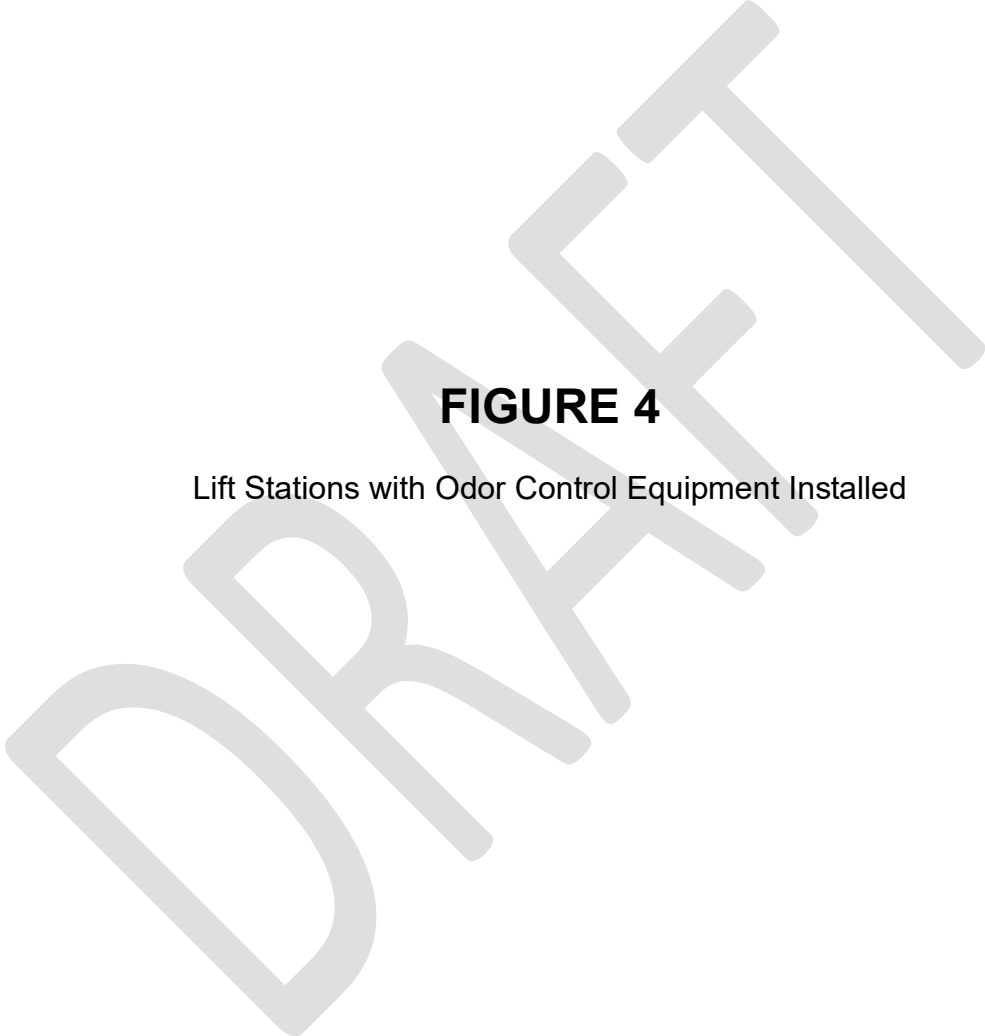


FIGURE 4

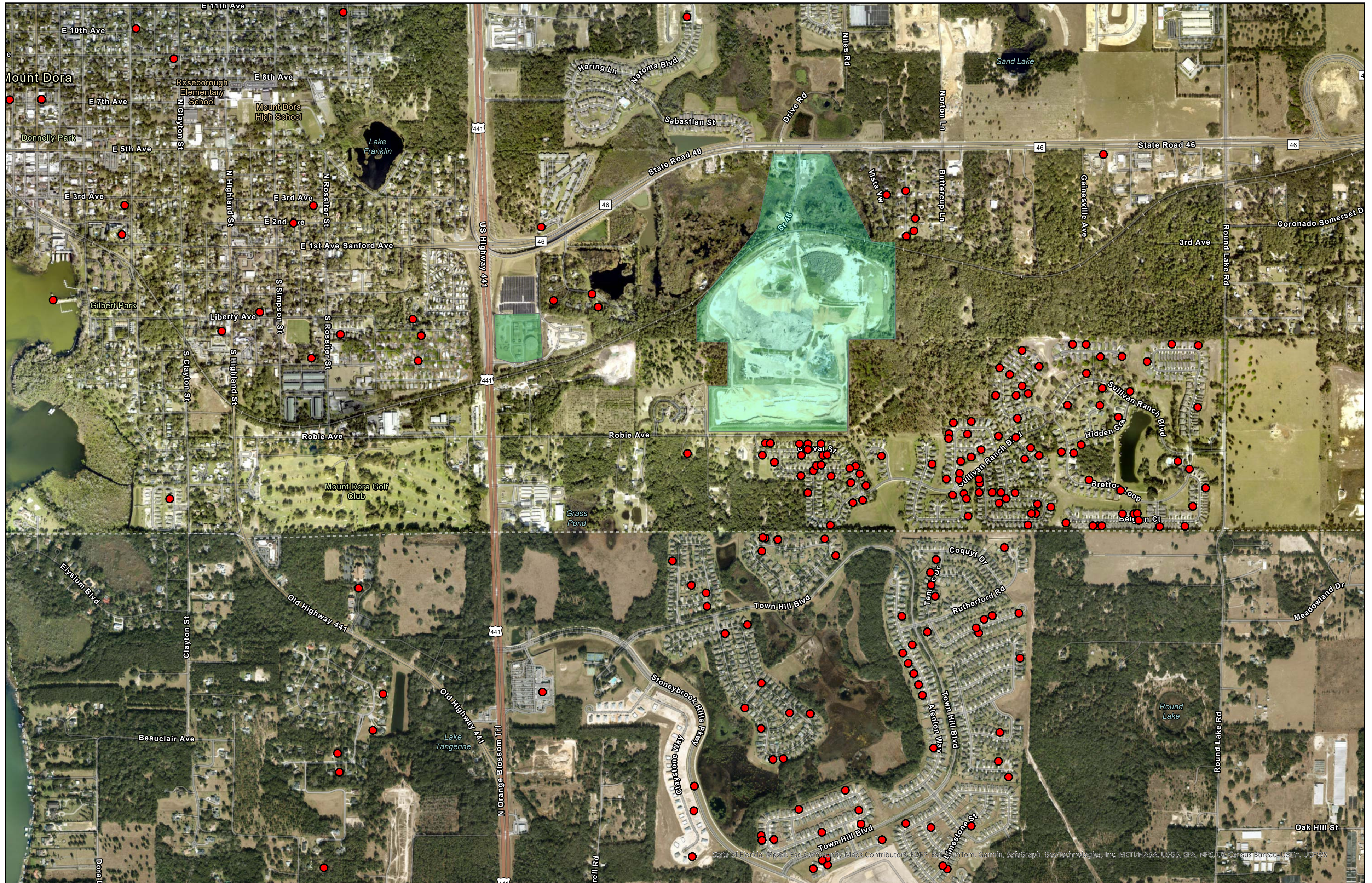
Lift Stations with Odor Control Equipment Installed



Appendix A

Odor Correlation Figures by Location

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Legend

- Observation Location
- WWTP2 Extents
- CD Landfill Extents

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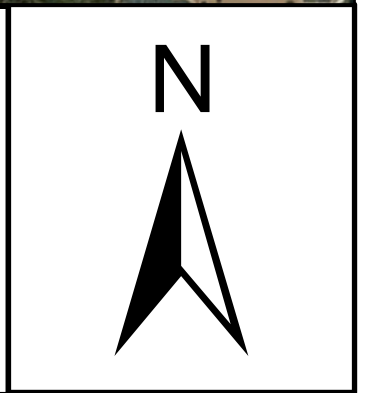
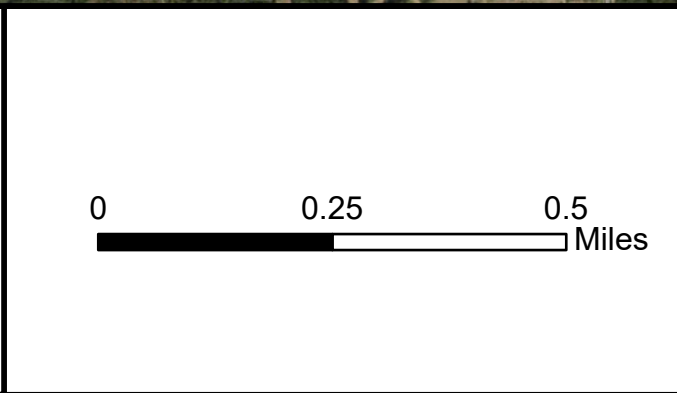
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MOUNT DORA FLORIDA

Odor Control Plan

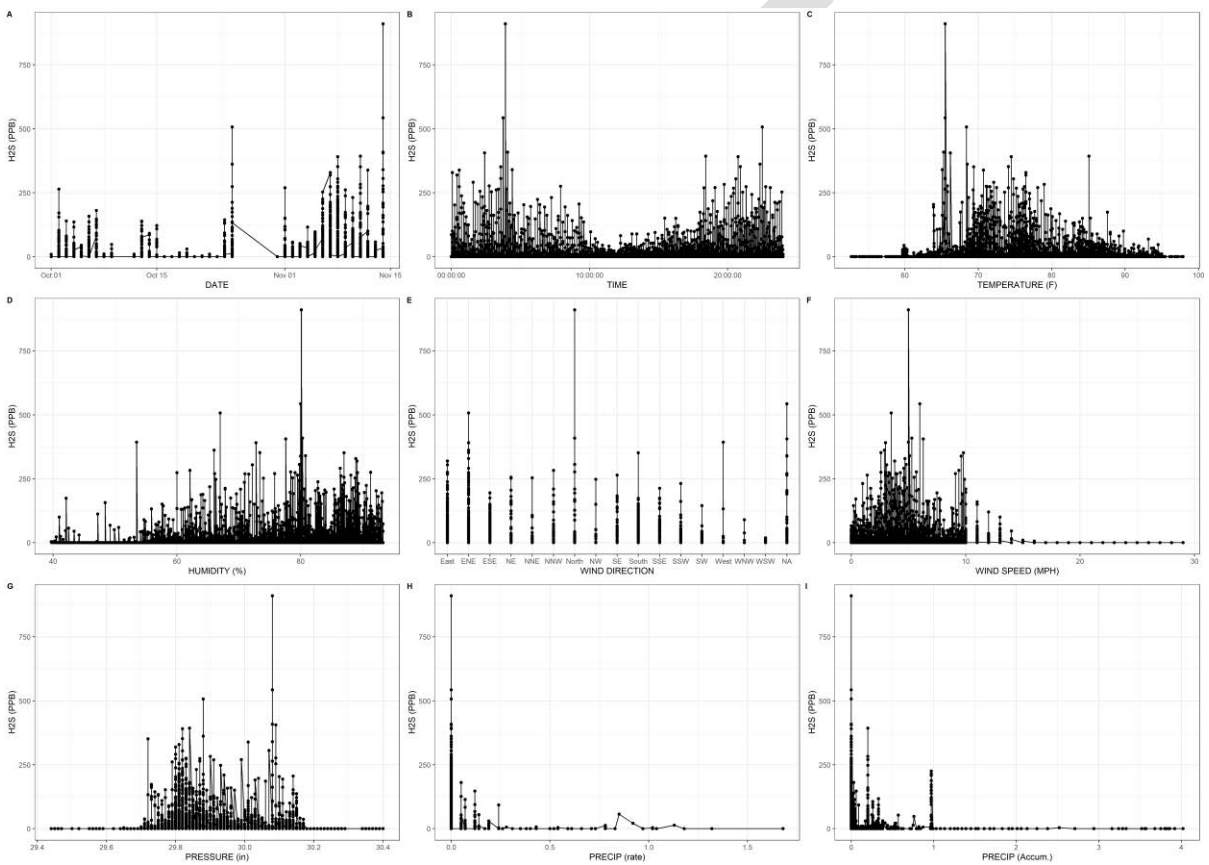
PREPARED FOR
City of Mount Dora

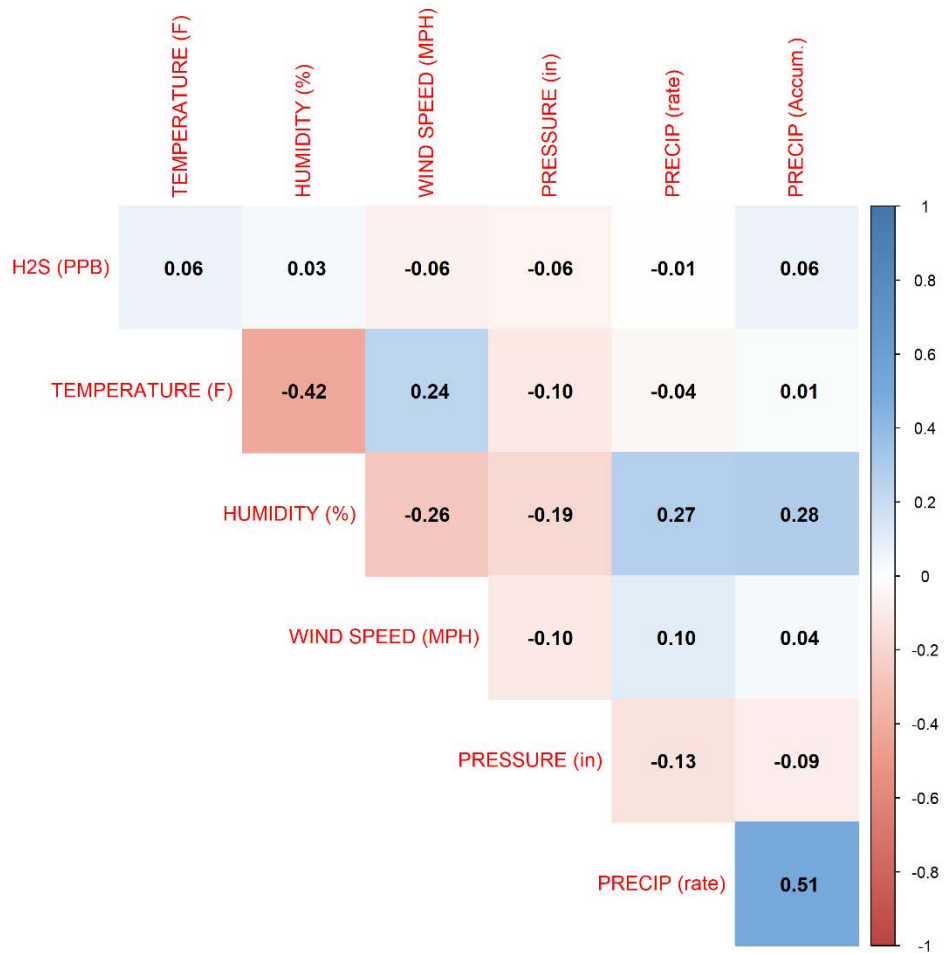
Odor Control Plan Q4 Update
Odor Observation Map



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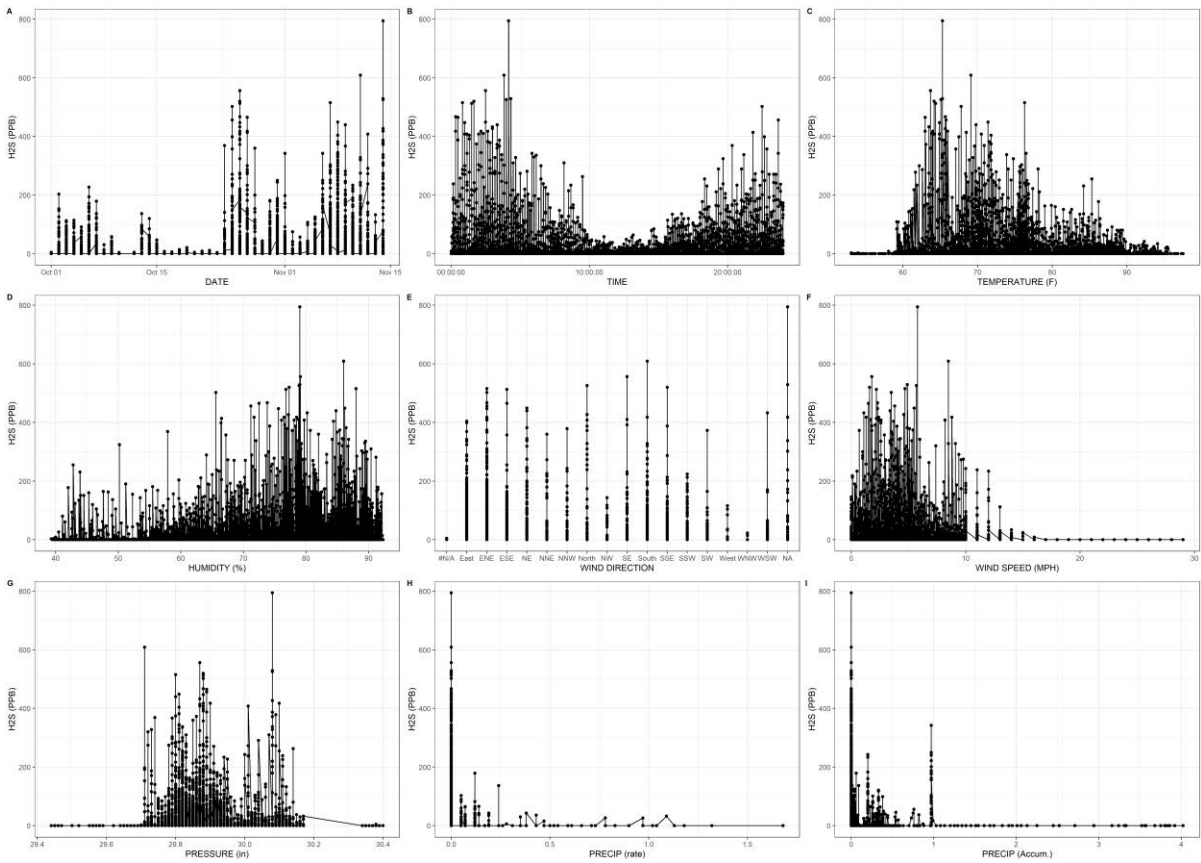
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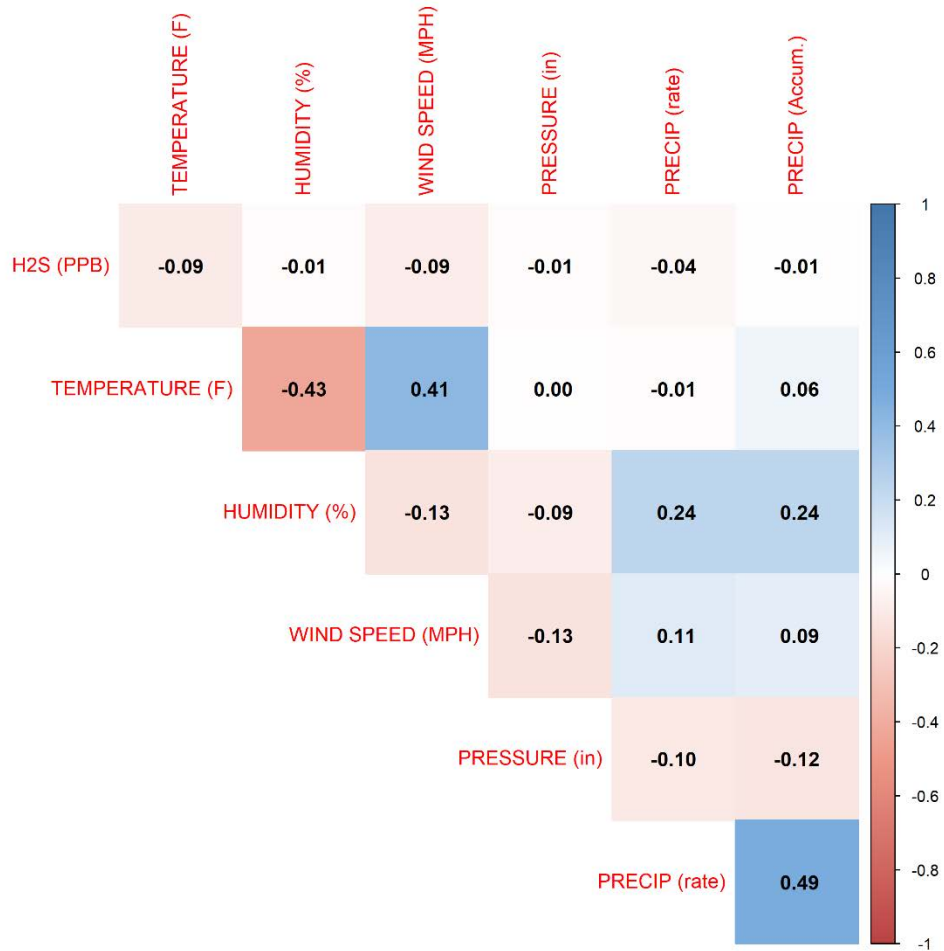




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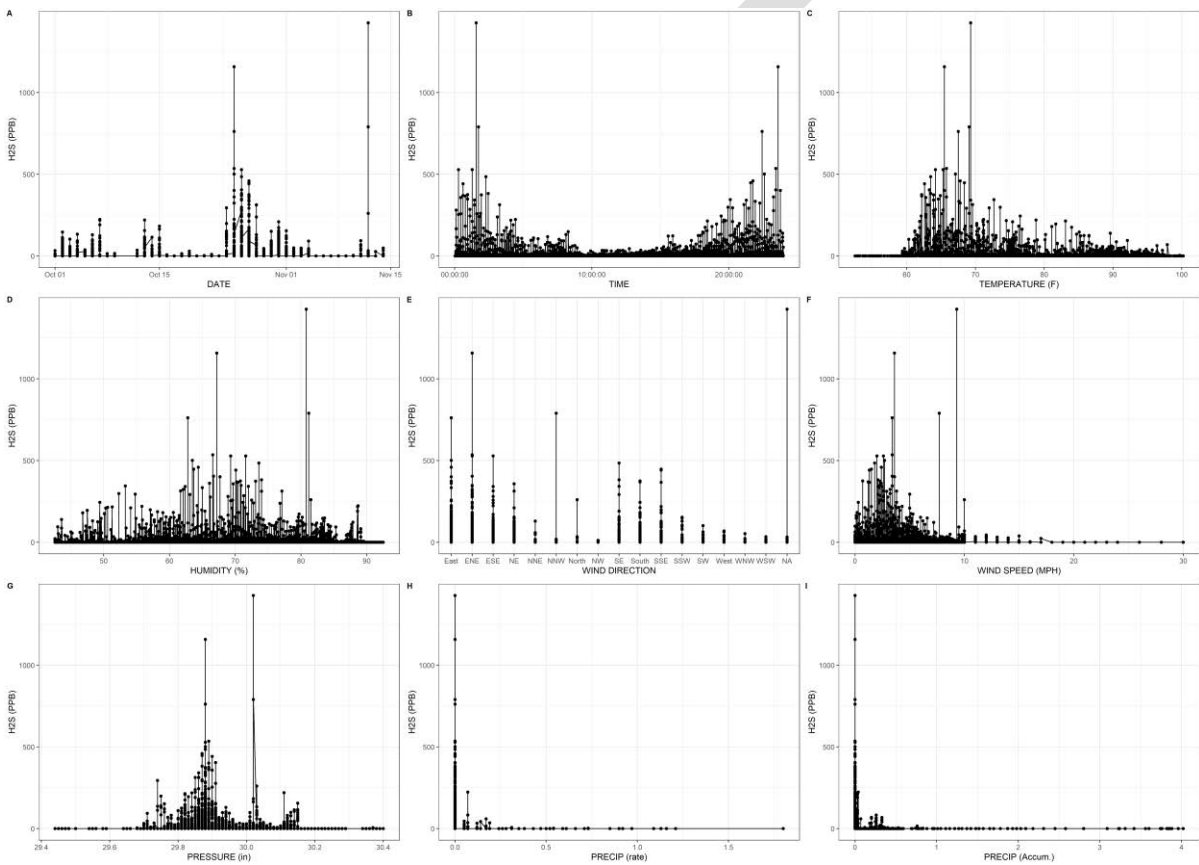
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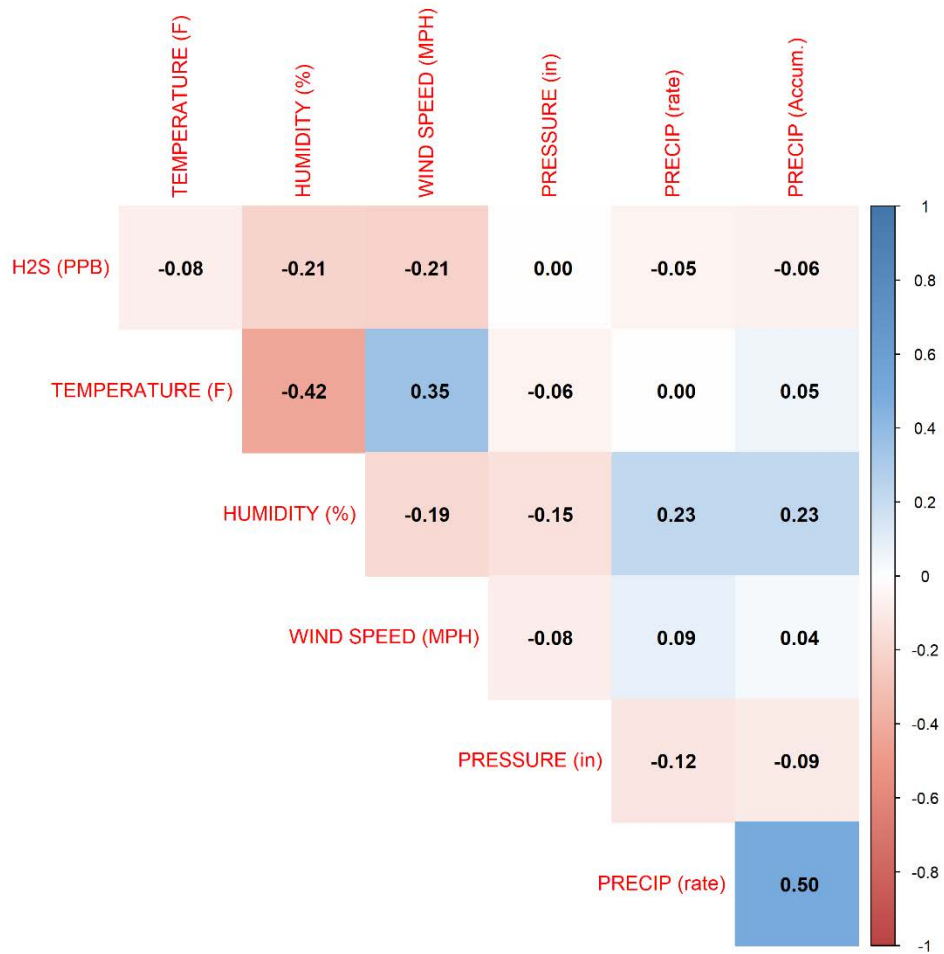




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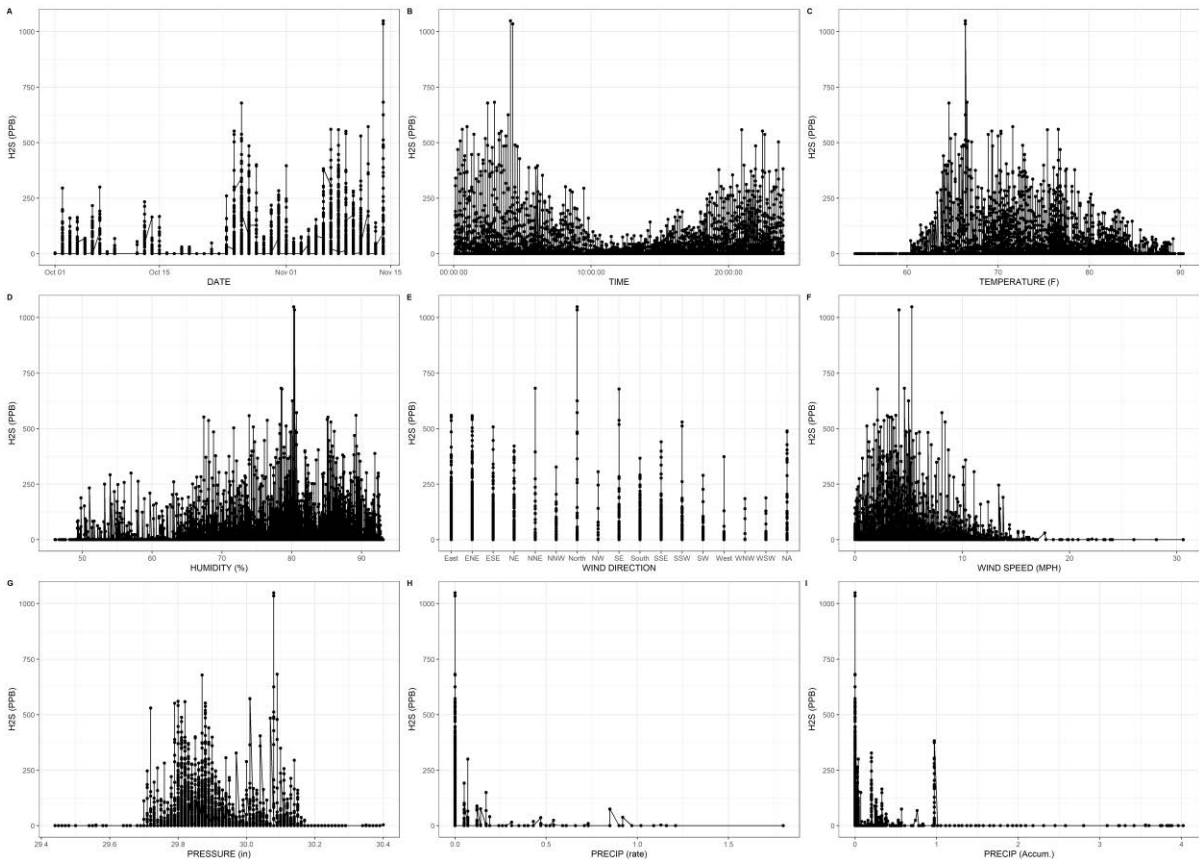
Location 3

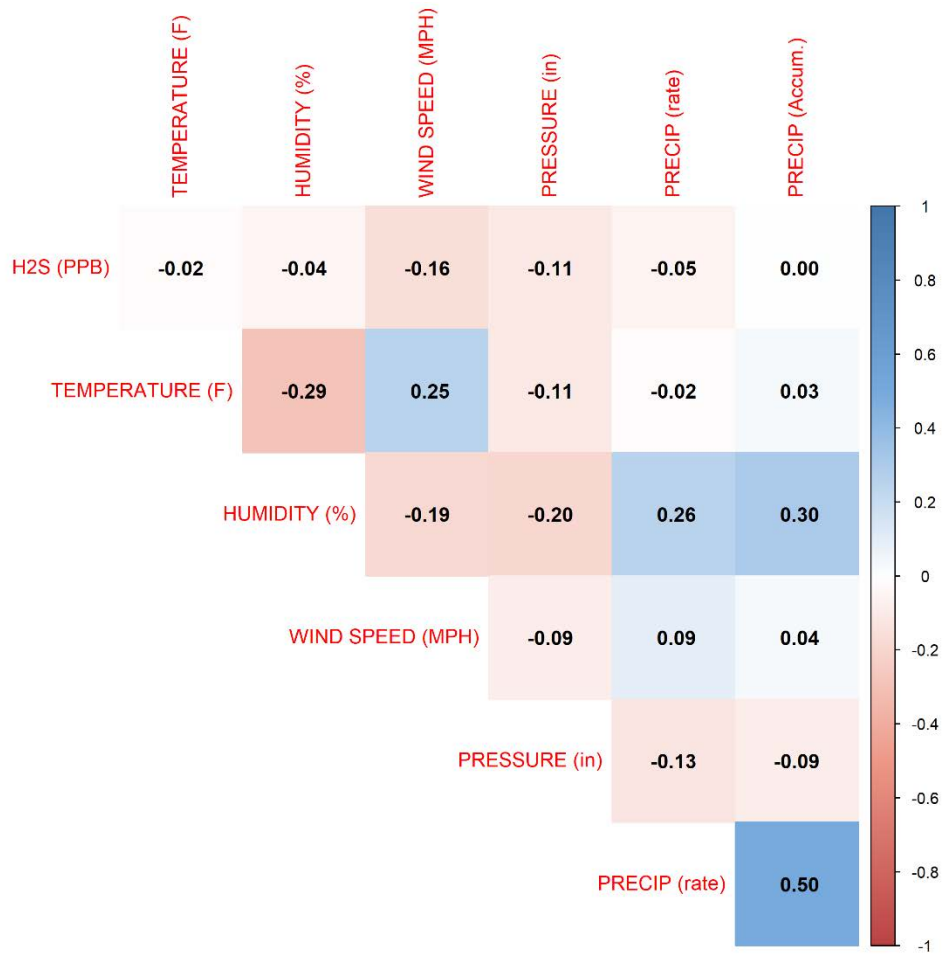




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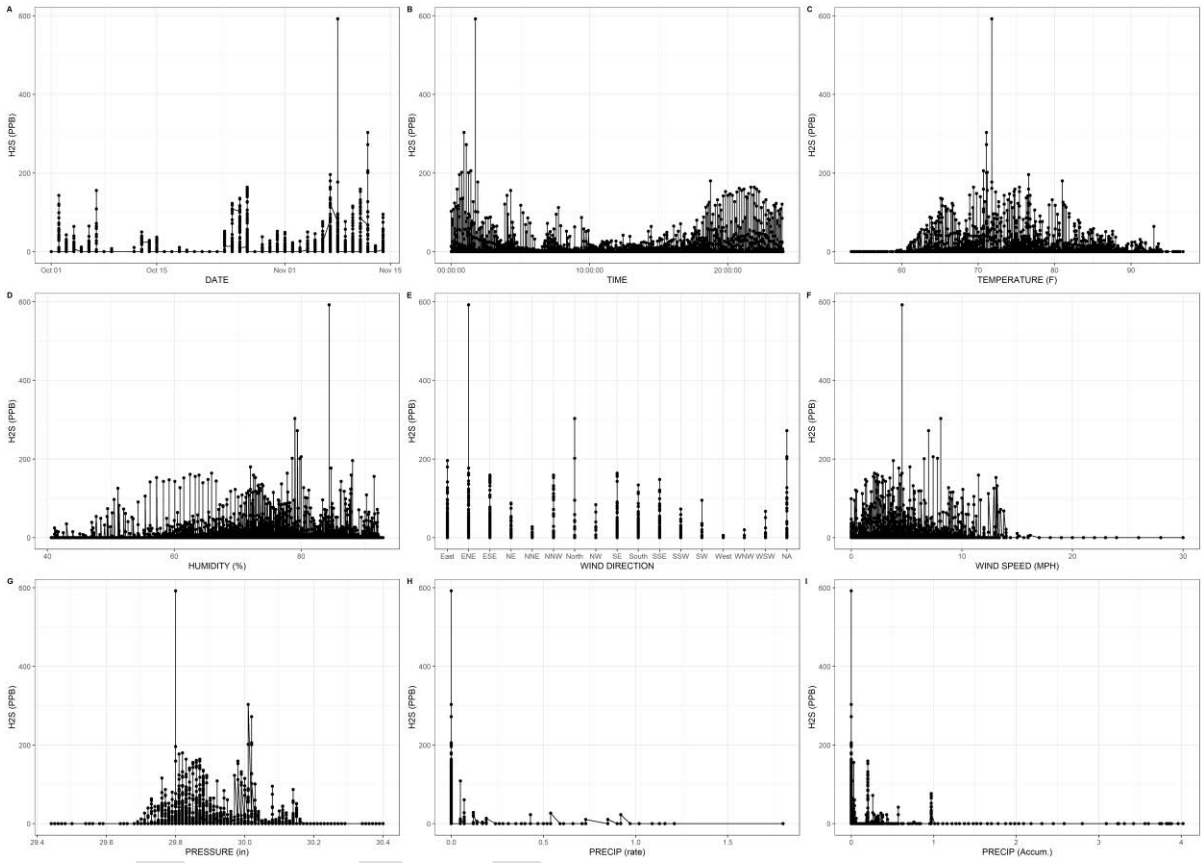
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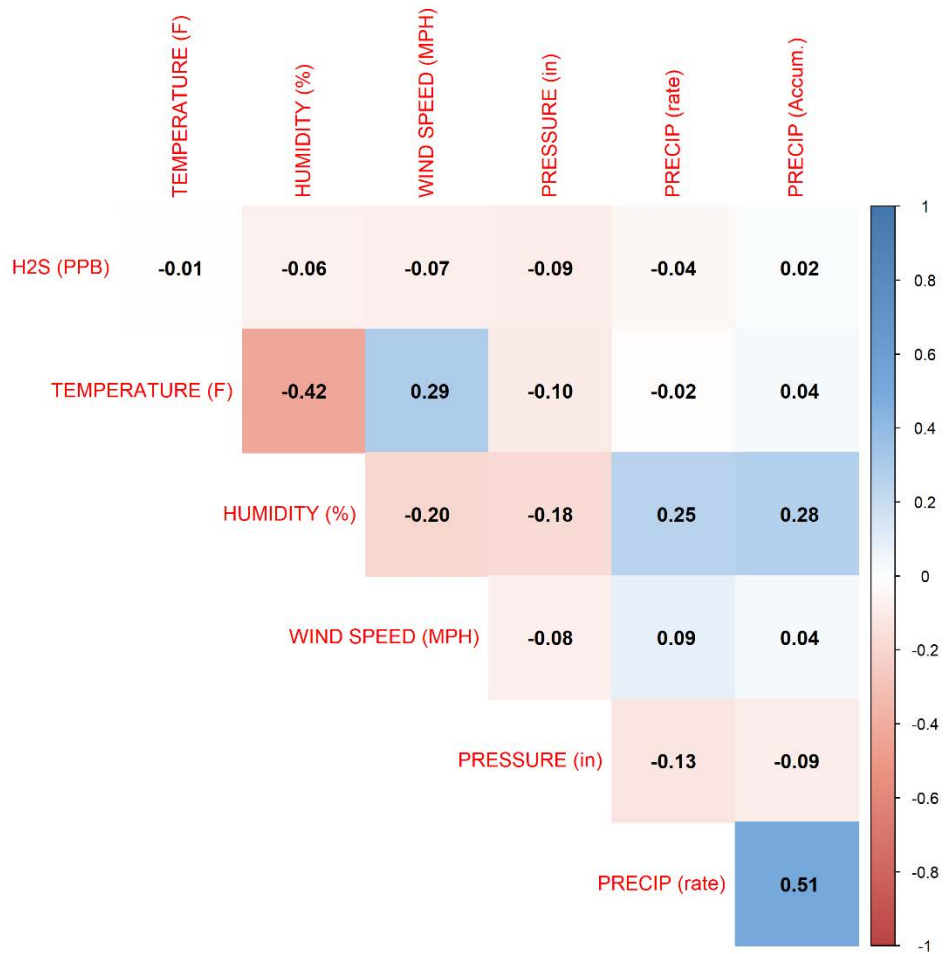




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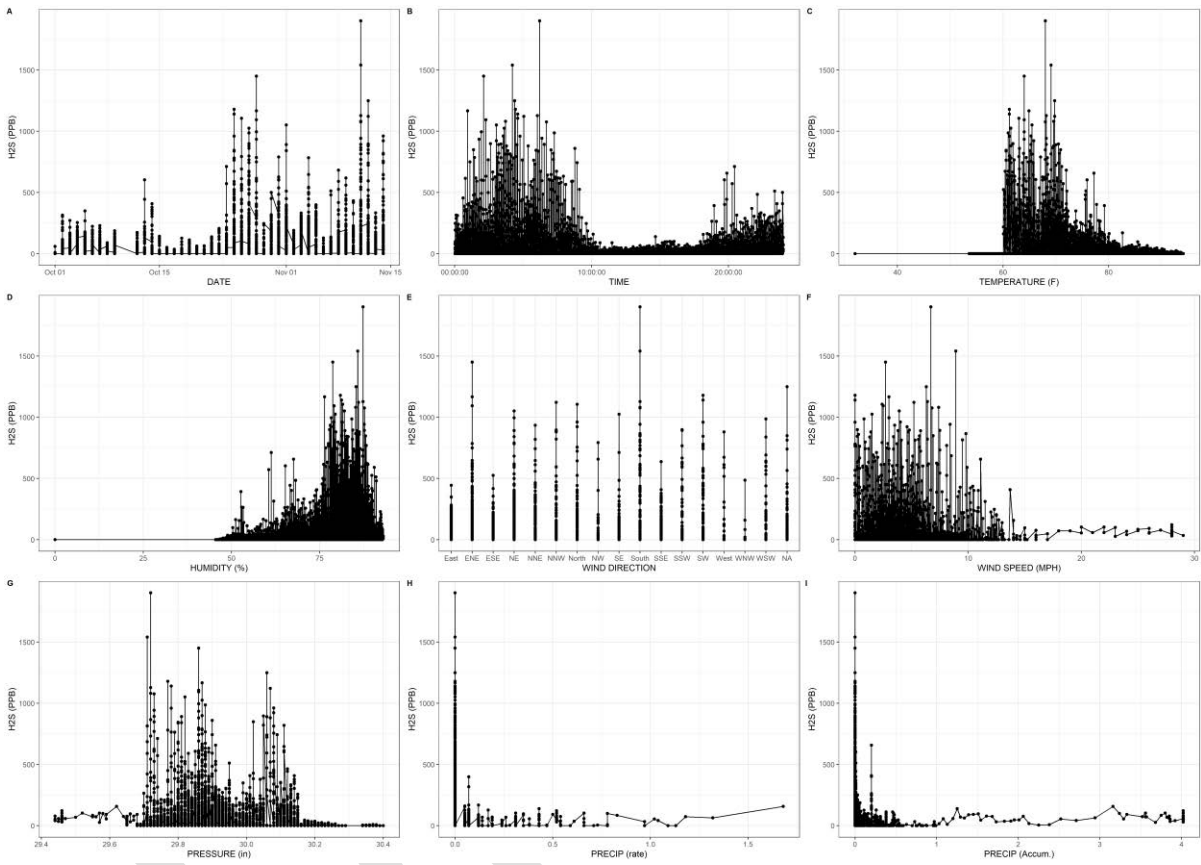
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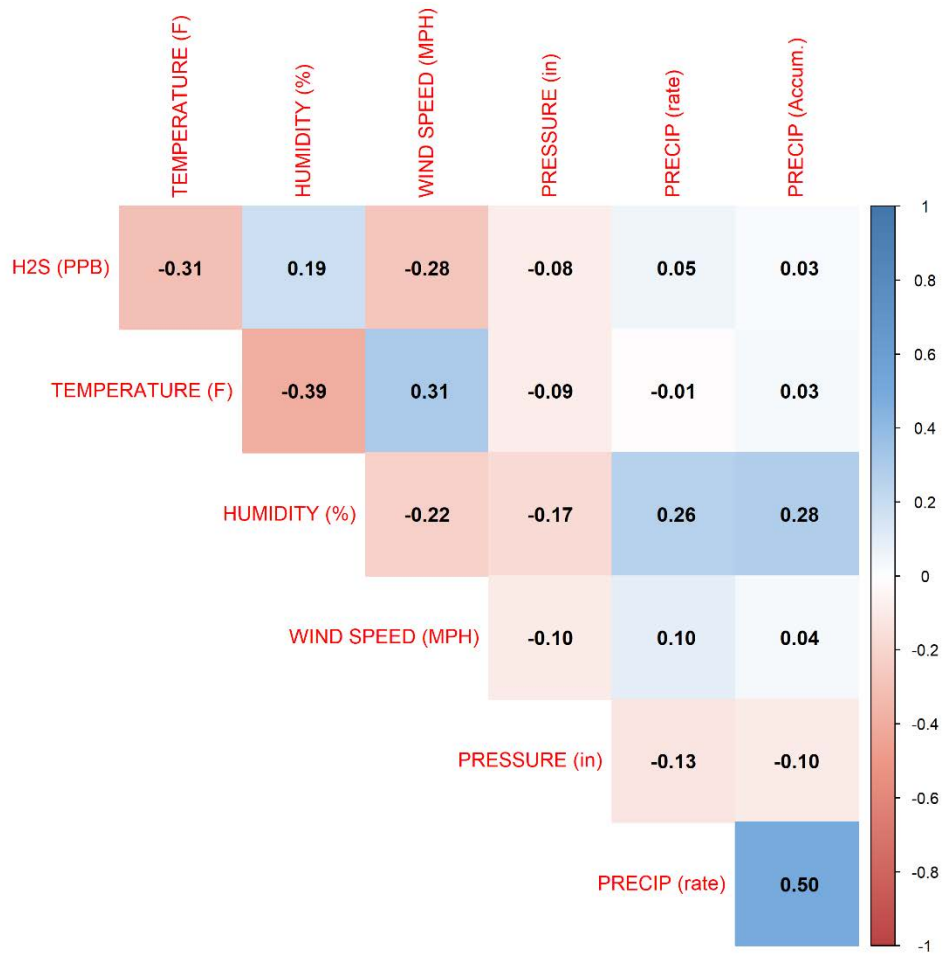




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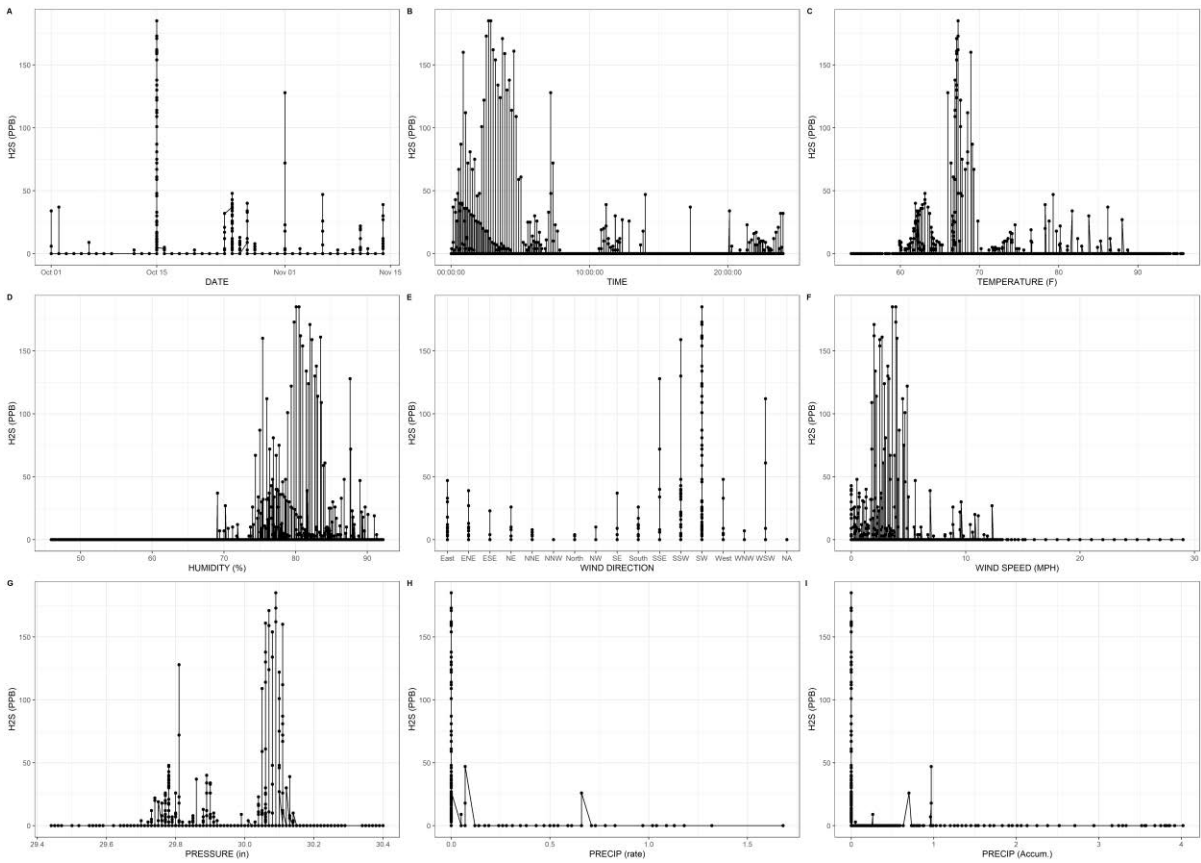
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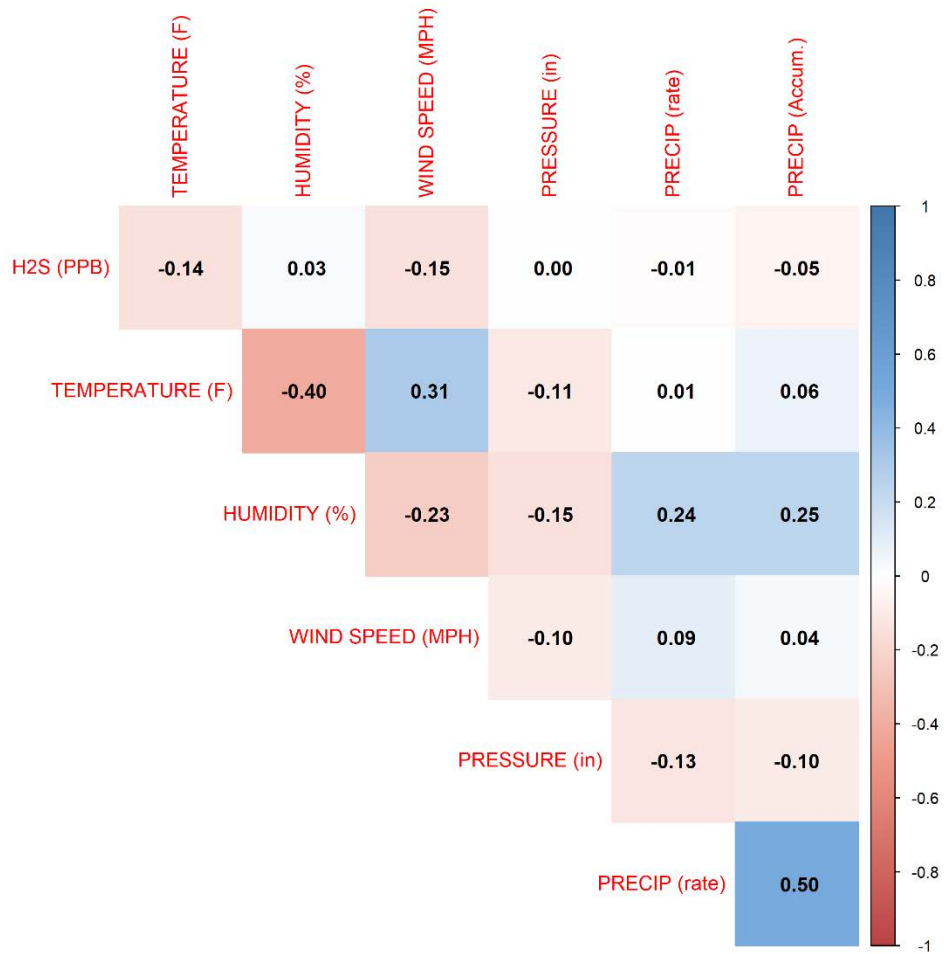




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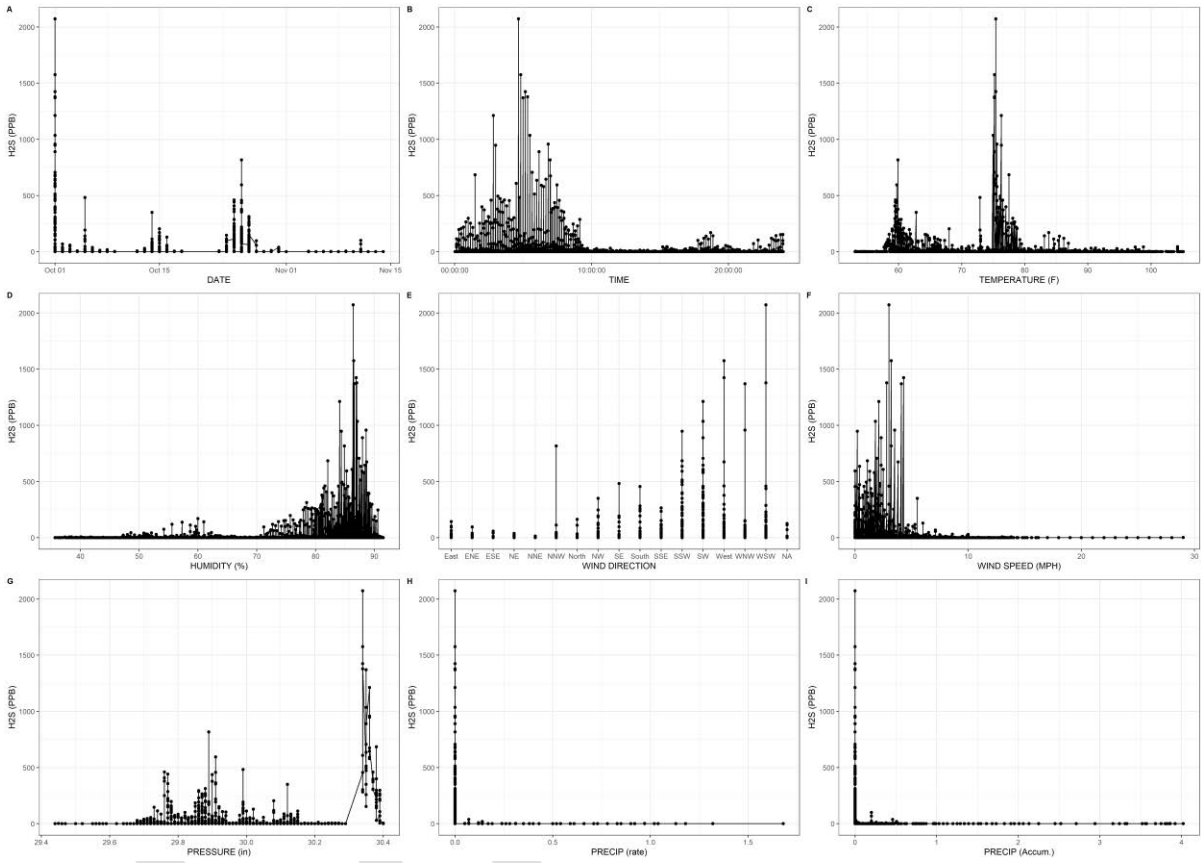
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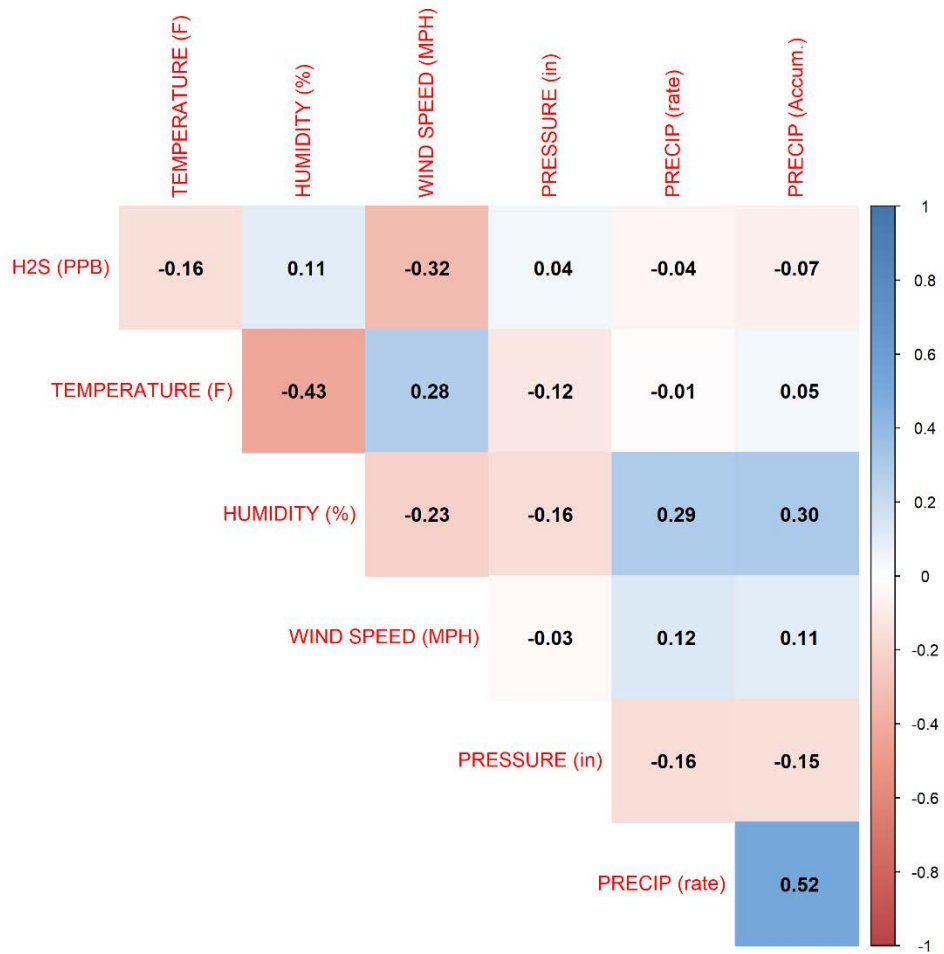




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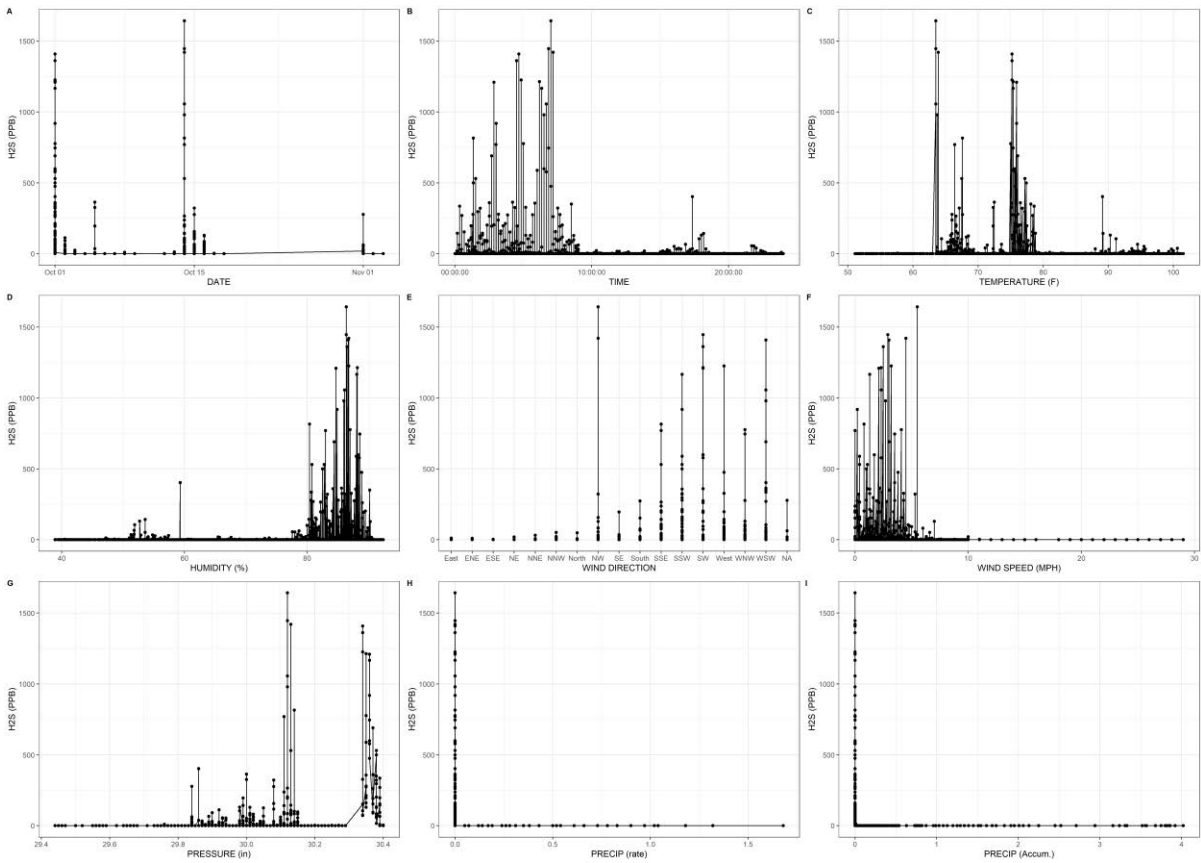
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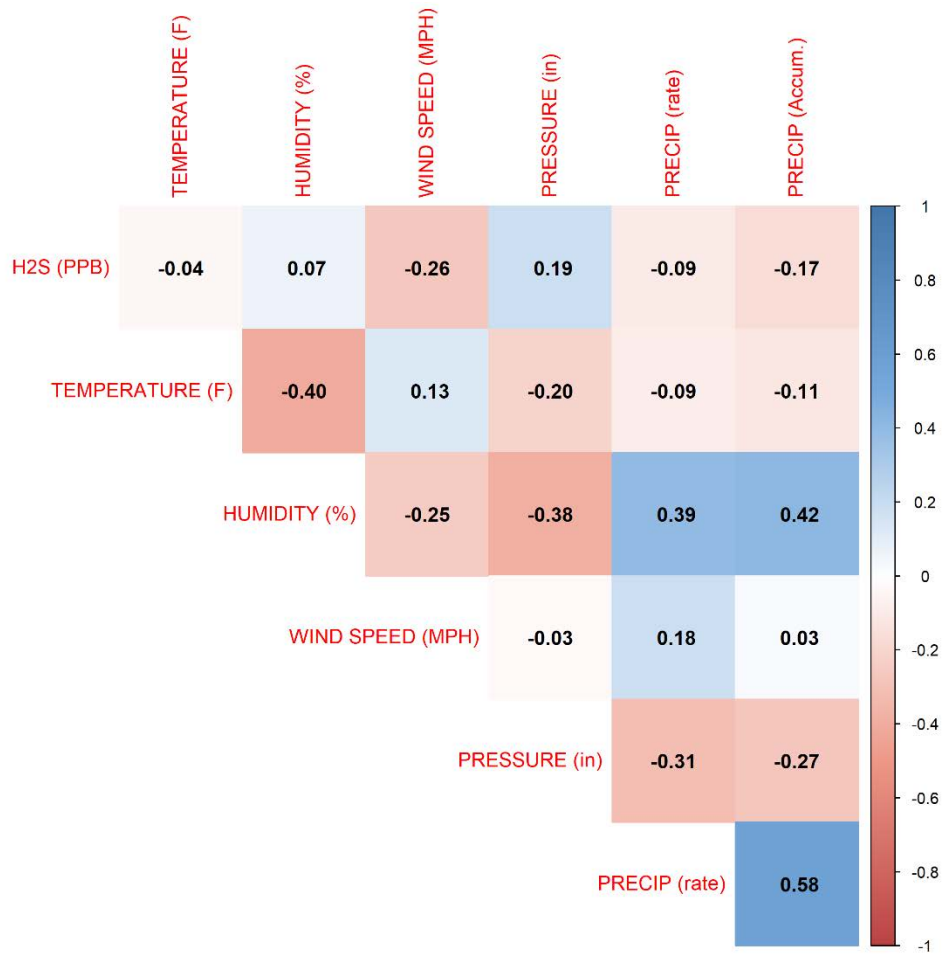




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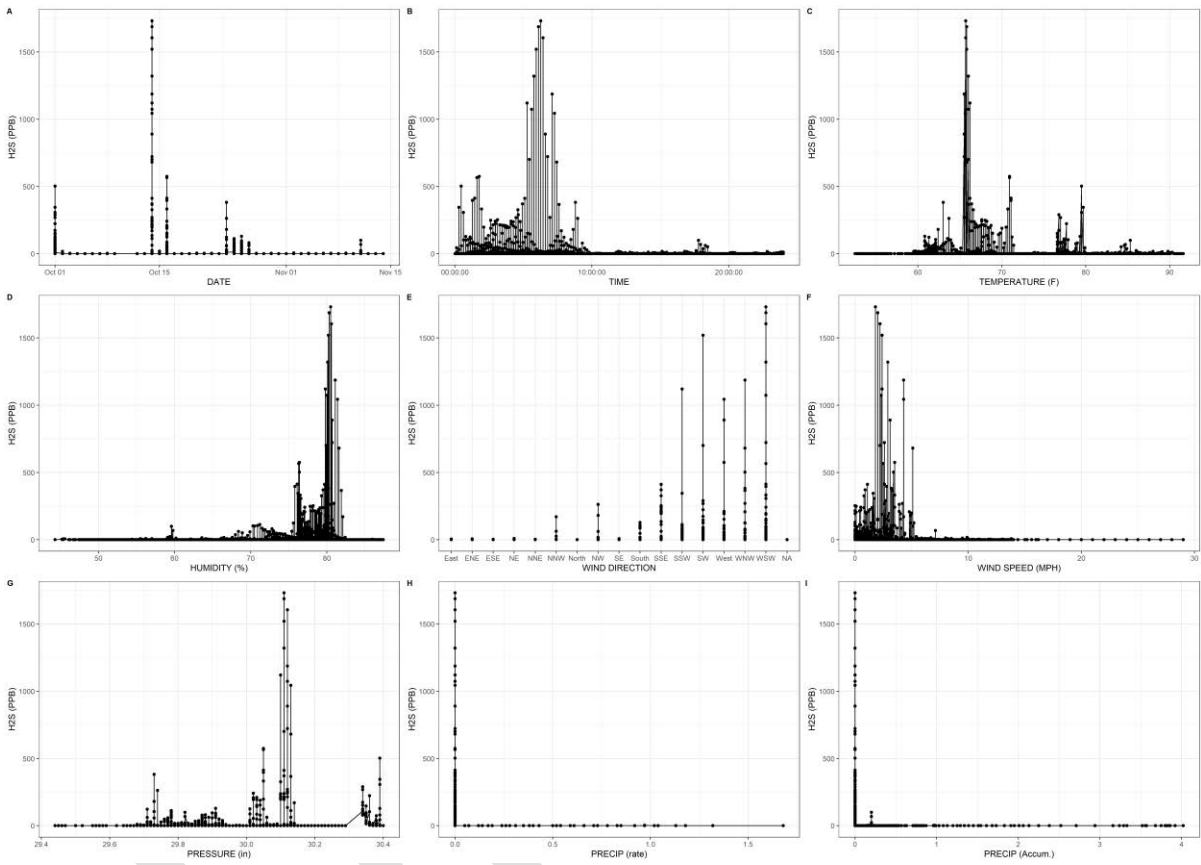
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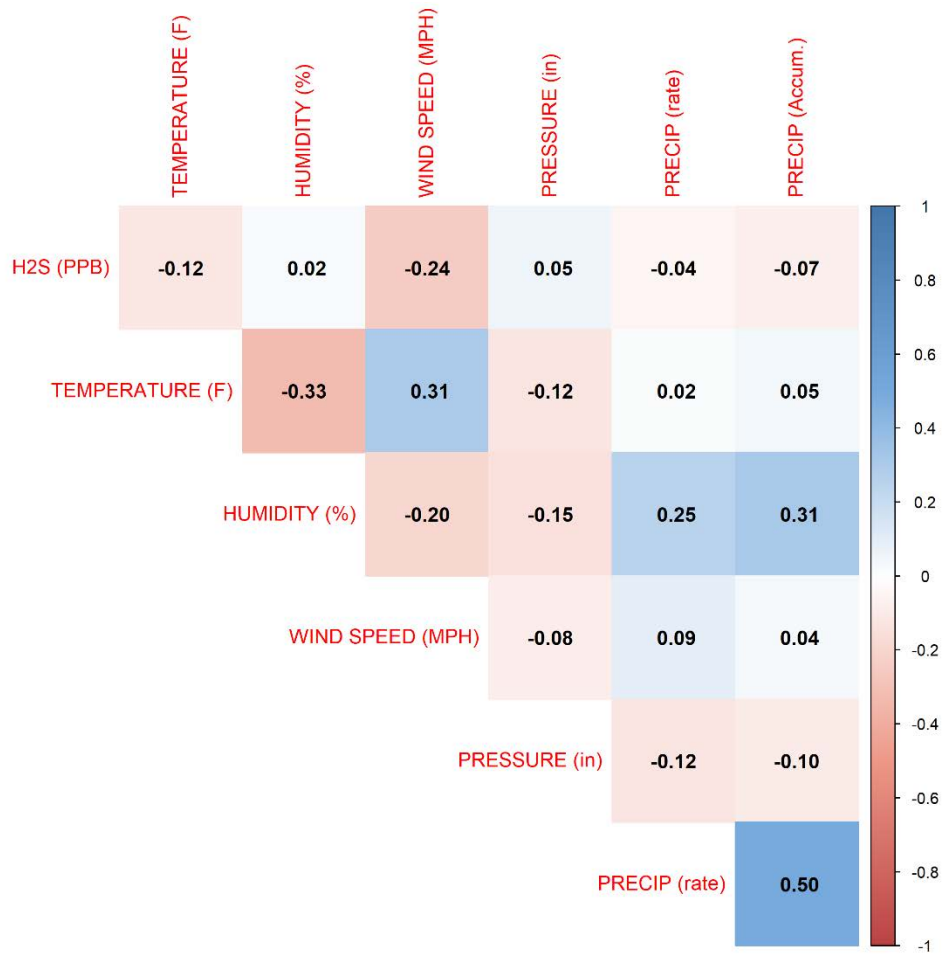




Location 10

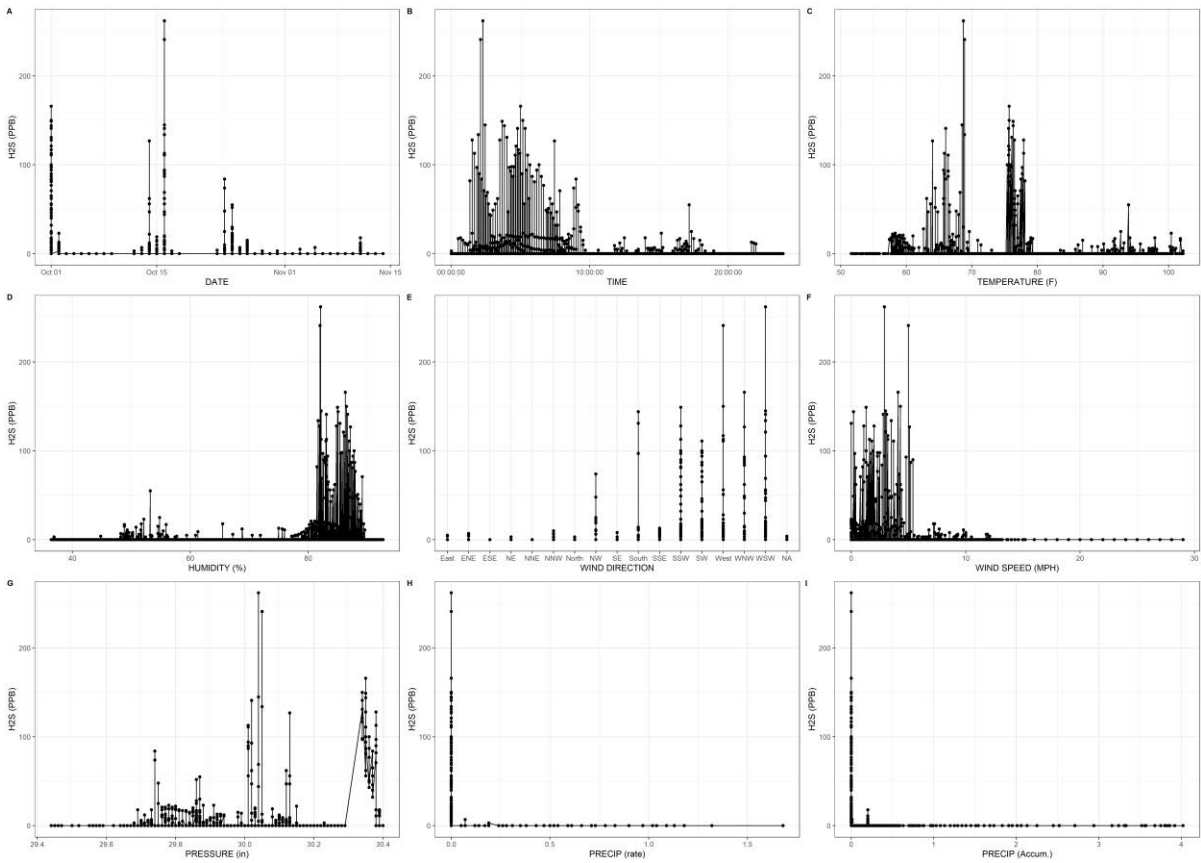
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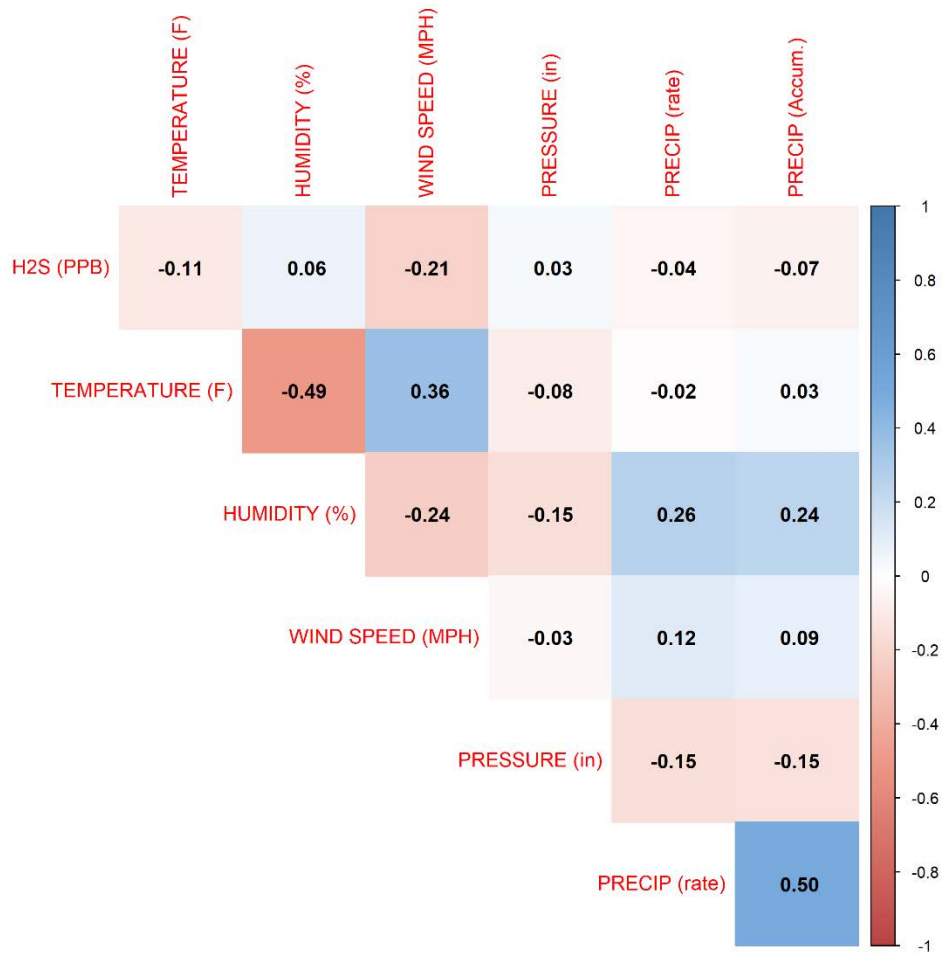




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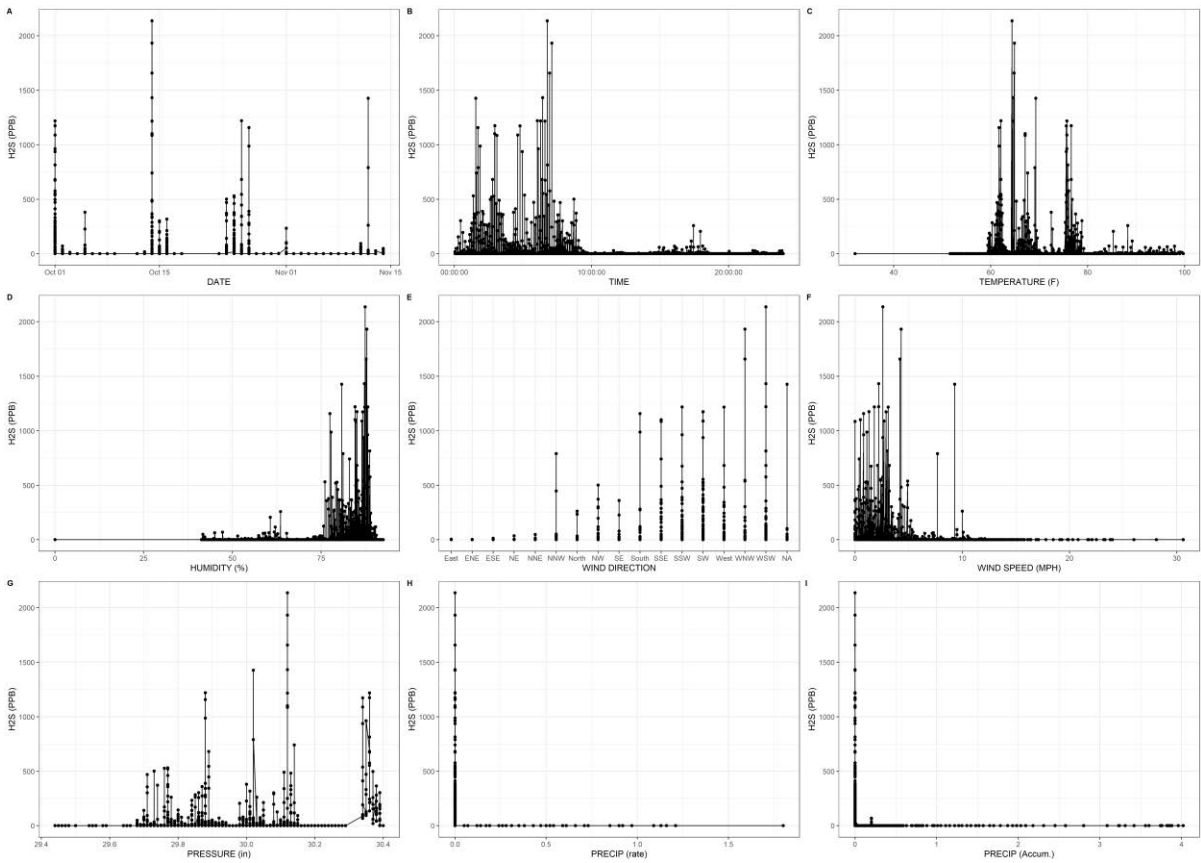
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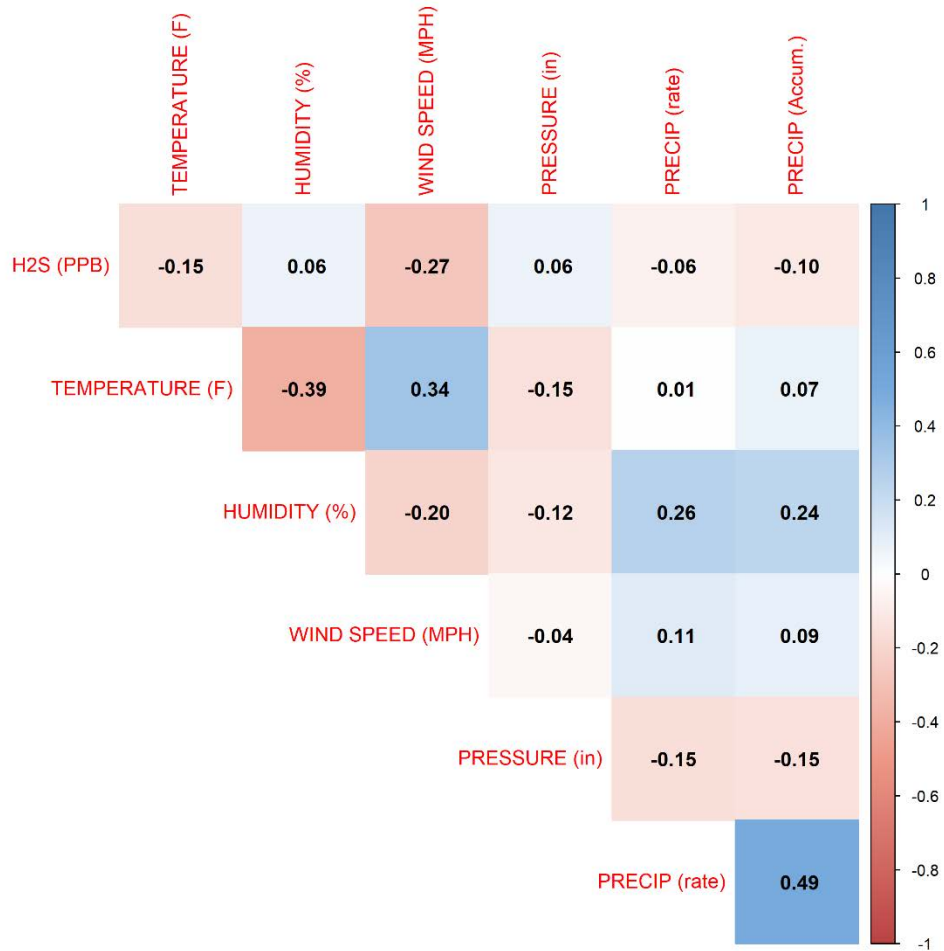




Location 12

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Appendix B

Dazzel Information

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DAZZeL Sewer Sweetener



Wastewater Odor Neutralizer

DAZZeL Sewer Sweetener reacts with common wastewater odors and breaks them down in a fundamental way. This product is a blend of essential oils (plant extracts) that binds with volatile malodorous compounds and breaks them down, in an irreversible reaction.

Works on sulfides, mercaptans, ammonia, septic, and volatile fatty acid odors. This product is not a perfume or masking agent; instead it neutralizes the molecules responsible for the odor. This product is non-toxic and formulated specifically for use in biological wastewater systems.



Breaks down the odorous molecules

- Not a masking agent

Works great in:

- Collection systems, influent wells, sludge holding tanks, small lagoons

Figure 1:

DAZZeL Sewer Sweetener eliminates odor by breaking down molecules

