

# Monitoring Network Plan - 2017



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#### I. Background:

Federal Regulations (40 CFR 58.10) require that State and Local Agencies operating ambient air quality monitoring networks shall review their air quality monitoring networks on an annual basis. Any needed modifications to the network should be identified. A detailed monitoring network description should also be included. In addition, the plan should be available for public comment. MDEQ's plan is available on the MDEQ website at <a href="http://www.deq.state.ms.us">http://www.deq.state.ms.us</a>.

The annual network review specified in 40 CFR 58.10 contains the following elements that apply to each monitoring site:

- The AQS site identification number.
- The location, including street address and geographical coordinates.
- The sampling and analysis method(s) for each measured parameter.
- The operating schedules for each monitor.
- Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal.
- The monitoring objective and spatial scale of representativeness for each monitor as defined in appendix D of part 58.
- The identification of any sites that are suitable and sites that are not suitable for comparison against the annual PM<sub>2.5</sub> and Ozone NAAQS as described in part 58.30.
- The MSA, CBSA, CSA or other area represented by the monitor.
- The annual monitoring network plans and or periodic network assessments are subject to Regional approval according to part 58.14.

#### II. Overview:

In the State of Mississippi the Mississippi Department of Environmental Quality is the only agency operating an ambient air quality network. There are no local agencies. In Mississippi, as in other State agencies, network monitors are operated for a variety of monitoring objectives. These objectives include determining if an area of the State meets the NAAQS, for public information such as EPA's AirNow data mapping web site, Air Quality Index reporting for public information, background data collection, spatial considerations and special projects. The AQI forecast is currently reported for the Jackson Metro area, Biloxi/Gulfport area and DeSoto County area on the MDEQ web site at http://www.deq.state.ms.us under AQI. In addition, hourly ozone, PM continuous, NO<sub>2</sub>, SO<sub>2</sub>, and CO data is reported to the EPA Airnow site.

All site data is suitable for NAAQS comparisons per appendices A, C, D, and E. MDEQ's Quality Management Plan is current with an approval date of 4/23/09 while the Criteria Pollutants QAPP is dated 10/1/06. MDEQ is currently working to update the QAPP and will periodically update EPA on the status.

40 CFR 58 has set <u>minimum monitoring requirements</u> for the pollutants that are to be compared with the NAAQS. These minimum requirements are based on population, the level of monitored pollutants and MSA as defined in the latest US Census information. The tables below and the discussion on the following pages summarize this information.

Mississippi MSA	Pop 2010 Census
Memphis	1,316,100
Jackson	539,057
Hattiesburg	142,842
Gulfport – Biloxi	248,820
Pascagoula	162,246

Mississippi CSA	Pop 2010 Census
Jackson-Yazoo	567,122
Gulfport-Biloxi-Pascagoula	411,066

#### **III. Site Discussion**:

Mississippi's air quality monitoring network has been reviewed based on the historic monitoring data, air quality monitoring regulations, data representation based on spatial considerations, special data needs and changes needed based on the monitoring regulations. The items used in the evaluation were the AQS database, the 40 CFR parts 53 and 58 documents, census data and maps. All monitors operated by MDEQ are SLAMS.

MDEQ is planning to upgrade the PM<sub>2.5</sub> network from sequential FRMs to continuous FEMs. MDEQ has established a timetable of 1-2 years for the entire upgrade and will notify EPA when all new monitors are operational. The following section describes the purposes and any changes related to each site in the ambient monitoring network in the State of Mississippi based on our review of existing monitoring efforts.

#### 1. Memphis MSA:

- **Hernando** (DeSoto Co. 28.033.0002) A FRM PM<sub>2.5</sub> sampler is designated as a transport sampler and therefore is a required sampler. A collocated FRM PM<sub>2.5</sub> sampler, a continuous PM<sub>2.5</sub> sampler, and an ozone monitor are required and operated at this site. MDEQ has a monitoring agreement with Memphis, TN, and AR to meet Appendix D requirements section 2, e. A copy is attached and is on file at Region 4.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4 meters above ground level and 69 meters, southwest, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site. MDEQ will replace the shelter at the Hernando site and no trees or obstacles will impact the new building. The replacement monitoring shelter's sample inlet will be about 4.5 meters above ground level and 75 meters, southwest, form the nearest road. The new latitude is 34.49.14.25 and the longitude is 89.59.16. See Google photo for reference.
  - Sampling train: The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.

#### 2. Jackson MSA:

**Jackson NCore** (Hinds Co. 28.049.0020) – The NCore site contains a full complement of instruments, including meteorological. The parameters currently include Ozone, Sulfur Dioxide, Carbon Monoxide, Nitric Oxides as NOy, FRM PM<sub>2.5</sub> manual, FEM PM<sub>2.5</sub> continuous, PM<sub>10-2.5</sub>, Speciated PM<sub>2.5</sub>, wind speed, wind direction, ambient temperature and relative humidity. The NCore site is the location for MDEQ's urban PM<sub>10</sub> sampling, as well as urban lead sampling. However, MDEQ will no longer monitor for lead after June 30, 2016.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4.5 meters above ground level and 40 meters, east, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.
- **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.
- **Jackson Metro** (Hinds Co. 28.049.0021) A FRM PM<sub>2.5</sub> sampler, a continuous PM<sub>2.5</sub> sampler and an ozone monitor is required and operated in this MSA.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4.5 meters above ground level and 247 meters, northeast, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.
  - **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.
- **PM**<sub>10</sub> **Sampling** PM<sub>10</sub> sampling for the Jackson metro area is based on the sampling requirements for population in Appendix D. The PM<sub>10</sub> samplers, both regular and collocated FRMs, are located at the Jackson NCore site.

#### 3. Hattiesburg MSA:

- **Hattiesburg** (Forrest Co. 28.035.0004) A FRM PM<sub>2.5</sub> sampler, a collocated FRM PM<sub>2.5</sub> sampler and a continuous PM<sub>2.5</sub> sampler is operated at this site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4 meters above ground level and 14 meters, northwest, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.
  - **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.

#### 4. Gulfport-Biloxi MSA:

- **Gulfport** (Harrison Co. 28.047.0008) A FRM PM<sub>2.5</sub> sampler, a continuous PM<sub>2.5</sub> sampler and an ozone monitor is operated at this site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4.5 meters above ground level and 45 meters, east, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.
  - Sampling train: The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.
- **Waveland** (Hancock Co. 28.045.0003) A FRM PM<sub>2.5</sub> sampler, an ozone monitor and a met tower is operated at this site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 5.5 meters above ground level and 24 meters, northwest, from the nearest road. The Live oak that was a concern has been removed and no other trees or obstacles impact the siting criteria for this site.
  - **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.

#### 5. Pascagoula MSA:

- Pascagoula (Jackson Co. 28.059.0006) An ozone monitor, NO<sub>x</sub> monitor, SO<sub>2</sub> monitor and a FRM PM<sub>2.5</sub> sampler is operated at this site. The NO<sub>x</sub> analyzer was designated as a RA-40 site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4.5 meters above ground level and 43 meters, northwest, from the nearest road. The Pine tree limbs that were within the dripline of the monitor inlet have been trimmed. No other trees or obstacles impact the siting criteria for this site.
  - **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.

#### 6. Non- MSA Sites:

- **Grenada** (Grenada Co. 28.043.0001) A FRM PM<sub>2.5</sub> sampler is operated at this site as a background monitor for PM<sub>2.5</sub> as required by regulations.
  - **Site Approval Status:** Site and monitor meet all design criteria for the monitoring network. The sample inlet is about 2 meters above ground level and 50 meters, southeast, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.

- Meridian (Lauderdale Co. 28.075.0003) An ozone analyzer is operated at this site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4.5 meters above ground level and 22 meters, west, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.
  - **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.
- **Tupelo** (Lee Co. 28.081.0005) An ozone analyzer is operated at this site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4 meters above ground level and 14.5 meters, south, from the nearest road. There are no trees or obstacles that would impact the siting criteria for this site.
  - **Sampling train:** The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.
- Cleveland (Bolivar Co. 28.011.0001) An ozone analyzer is operated at this site.
  - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The sample inlet is about 4 meters above ground level and 29 meters, south, from the nearest road. The River birch tree has been removed. The tree to the west of the monitoring shelter is 26 meters, and the dripline is approximately 15 meters away from the probe inlet. During the 2015 TSA, there was concern that the tree may impede the wind flow arc. However, during a conversation with the EPA on May 3, it was determined this tree is not an obstacle and no further action is necessary.
  - Sampling train: The probe tubing is FEP and the fittings are PFA. The stainless steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel.

# IV. NCore Tables:

# **NCore Site Table**

AQS ID	MSA	Site Name	County	City	Latitude	Longitude	Street Address	Elevation (meters)	Site start date	<b>Location Setting</b>
28-049-0020	Jackson	Jackson NCore	Hinds	Jackson	32.19.45	90.10.58	232 E Woodrow Wilson	93	7/01/2013	Urban and city center

## **NCore Parameter Table**

Parameter	Monitoring Objective	Measurement Scale	Designation	Туре	Method	Schedule	Comment
СО	Pop. Exp.	Neighborhood	NCore	Continuous Analyzer	Non-Dispersive IR	Jan-Dec	
NO <sub>y</sub>	Pop. Exp.	Neighborhood /Urban	NCore	Continuous Analyzer	Chemiluminescence	Jan-Dec	
O <sub>3</sub>	Pop. Exp.	Neighborhood /Urban	NCore	Continuous Analyzer	UV Photometry	Jan-Dec	
SO <sub>2</sub>	Pop. Exp.	Neighborhood	NCore	Continuous Analyzer	UV fluorescence	Jan-Dec	
FRM PM <sub>2.5</sub>	Pop. Exp	Neighborhood	NCore	Manual Reference Sampler(3 Day)	Gravimetric Analysis	Jan-Dec	
FEM PM <sub>2.5</sub>	Pop. Exp	Neighborhood	NCore	Continuous Analyzer	Gravimetric	Jan-Dec	TEOM
PM <sub>2.5</sub> Speciation	Pop. Exp	Neighborhood	NCore	Manual Sampler (3 Day)	Multiple Methods	Jan-Dec	
PM coarse	Pop. Exp	Neighborhood	NCore	Manual Sampler (3 Day)	Difference by Gravimetric Analysis	Jan-Dec	
Meteorological			NCore		Wind speed, direction, ambient temperature, humidity	Jan-Dec	
Lead	Pop. Exp	Urban	NCore	Manual sampler (6 Day)	Manual Method via PM 10	Jan-Dec	Required for the metro area 500,000+
$PM_{10}$	Pop. Exp	Urban	SLAMS	Manual Reference Sampler(6 Day)	Gravimetric Analysis	Jan-Dec	Required for the metro area 500,000+, non NCore
Radiation	Pop. Exp	Urban	Rad Net	Continuous / manual		Jan-Dec	Non NCore

## V. <u>Network Tables:</u>

#### NETWORK DESIGN TABLES MISSISSIPPI

#### $PM_{10}$

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Collocated	Туре	Method	Schedule	Comment
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Urban	1	Y	Manual (6 Day)	126	Jan-Dec	At NCore Site

# $PM_{2.5}$

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Collocated	Type	Method	Schedule
Hernando	DeSoto	Memphis	28-033-0002	Transport	Urban	1	Y	Manual (3 Day) Continuous	145 SEQ 702 TEOM	Jan-Dec Jan-Dec
Hattiesburg	Forrest	Hattiesburg	28-035-0004	Pop. Exp.	Neighborhood	1	Y	Manual (3 Day) Continuous	145 SEQ 702 TEOM	Jan-Dec Jan-Dec
Grenada	Grenada	N/A	28-043-0001	Background	Neighborhood	1	N	Manual (3 Day)	145 SEQ	Jan-Dec
Waveland	Hancock	Gulf/Biloxi	28-045-0003	Pop. Exp.	Neighborhood	0	N	Manual (3 Day)	145 SEQ	Jan-Dec
Gulfport	Harrison	Gulf/Biloxi	28-047-0008	Pop. Exp.	Neighborhood	1	N	Manual (3 Day) Continuous	145 SEQ 702 TEOM	Jan-Dec Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	N	Manual (3 Day)	145 SEQ	Jan-Dec
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	N	Manual (3 Day) Continuous	145 SEQ 702 TEOM	Jan-Dec Jan-Dec
Jackson	Hinds	Jackson	28-049-0021	Pop. Exp.	Neighborhood	1	N	Manual (3 Day) Continuous	145 SEQ 702 TEOM	Jan-Dec Jan-Dec

Comments: All manual samplers are FRM and classified as SLAMS. The continuous samplers are non FEM.

## $SO_2$

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Туре	Method	Schedule
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	Continuous	600	Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	Continuous	060	Jan-Dec

Comments: All monitors are classified as SLAMS

# NO<sub>x</sub>/NO<sub>y</sub>

	Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Туре	Method	Schedule
Jackson NCore		Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood /Urban	1	Continuous	599	Jan-Dec
	Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	Continuous	200	Jan-Dec

Comments: All monitors are classified as SLAMS

# $\mathbf{CO}$

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Туре	Method	Schedule
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	Continuous	055	Jan-Dec

# **OZONE**

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Туре	Method	Schedule
Cleveland	Bolivar	N/A	28-011-0001	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Gulfport	Harrison	Gulf/Biloxi	28-047-0008	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Waveland	Hancock	Gulf/Biloxi	28-045-0003	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Hernando	DeSoto	Memphis	28-033-0002	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Jackson	Hinds	Jackson	28-049-0021	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Urban	1	Continuous	UV Absorp	Jan - Dec
Meridian	Lauderdale	N/A	28-075-0003	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Tupelo	Lee	N/A	28-081-0005	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct

Comments: All monitors are classified as SLAMS

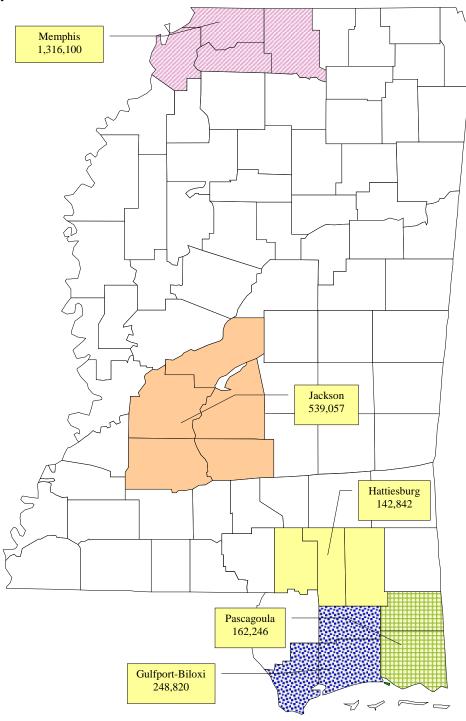
# **LEAD**

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Collocated	Туре	Method	Schedule	Comment
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Urban	1	Y	Manual (6 Day)	809	Jan-Dec	At NCore Site

# **Site Location Coordinates**

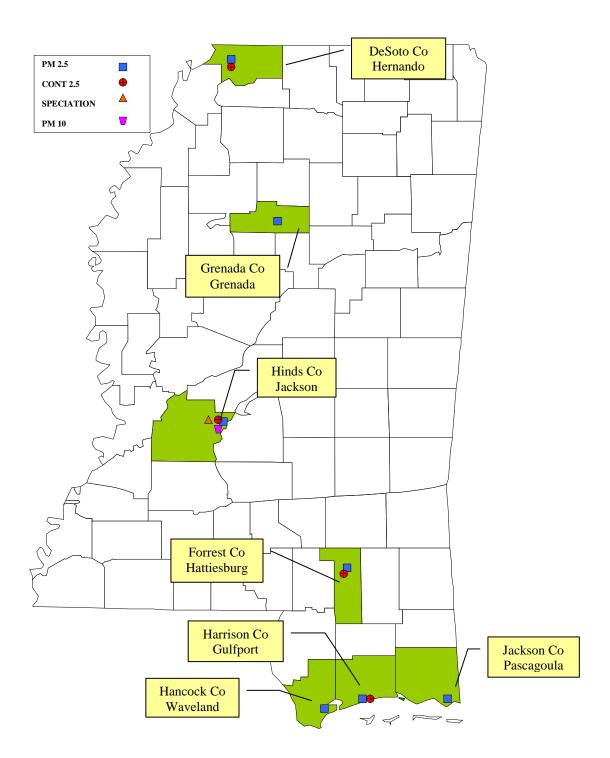
#	SITE ID	ITE ID LAT			LONG			NAME	COUNTY	ADDRESS
1	28-011-0001	33	44	45	90	43	23	CLEVELAND	BOLIVAR	213 North Bayou Ave.
2	28-033-0002	34	49	14	89	59	16	HERNANDO	DESOTO	5 East South St.
3	28-035-0004	31	19	26	89	17	32	HATTIESBURG	FORREST	101 Ferguson St.
4	28-043-0001	33	50	4	89	47	34	GRENADA	GRENADA	Hwy 332 at Grenada Airport
5	28-045-0003	30	18	4	89	23	45	WAVELAND	HANCOCK	400 Baltic St.
6	28-047-0008	30	23	24	89	2	59	<b>GULFPORT YC</b>	HARRISON	47 Maples Dr.
7	28-049-0021	32	19	14	90	10	50	HINDS CC	HINDS	3925 Sunset Dr.
8	28-049-0020	32	19	45	90	10	58	JACKSON NCORE	HINDS	232 E Woodrow Wilson
9	28-059-0006	30	22	41	88	32	2	PASCAGOULA	JACKSON	Hospital Rd. and Vega St.
10	28-075-0003	32	21	52	88	43	53	MERIDIAN	LAUDERDALE	Hwy 19 and 53rd Ave.
11	28-081-0005	34	15	54	88	45	58	TUPELO	LEE	West Jackson at Tupelo Airport

#### MSA MAP:

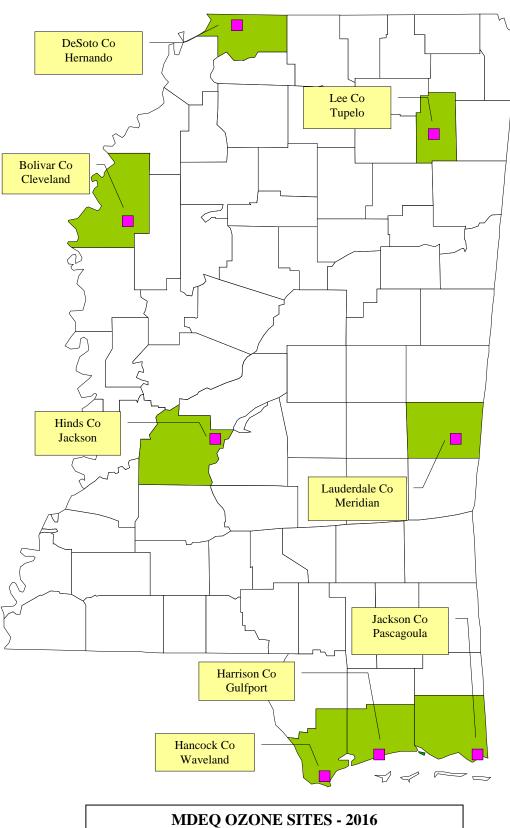


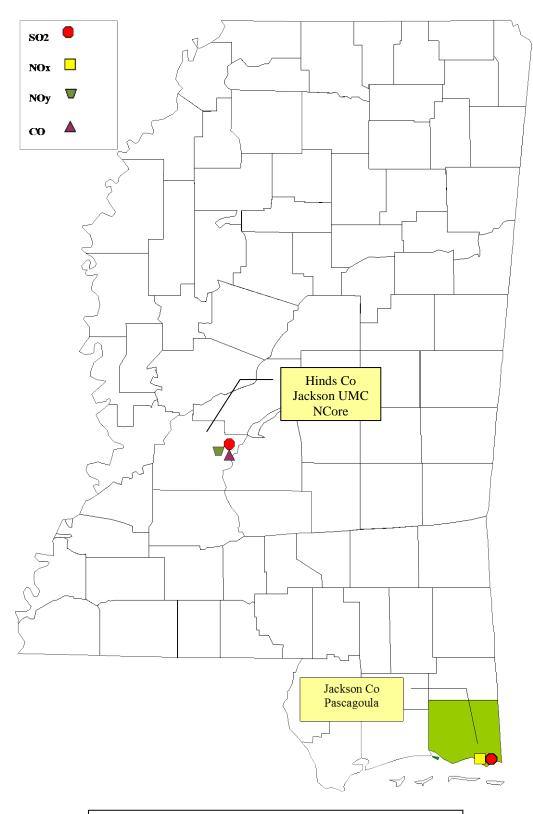
#### MISSISSIPPI MSA AREAS

MEMPHIS – DeSoto, Tunica, Marshall, Tate JACKSON – Hinds, Rankin, Copiah, Simpson, Madison HATTIESBURG – Lamar, Forrest, Perry GULFPORT-BILOXI – Hancock, Harrison, Stone PASCAGOULA – Jackson, George



**MDEQ PARTICULATE SITES – 2016** 





MDEQ SO2 / NOx/ NOy/ CO SITES - 2016

# Appendix I Site Maps and Photos



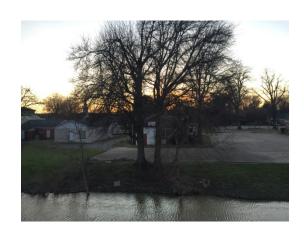




Cleveland - N

Cleveland - E

Cleveland - S

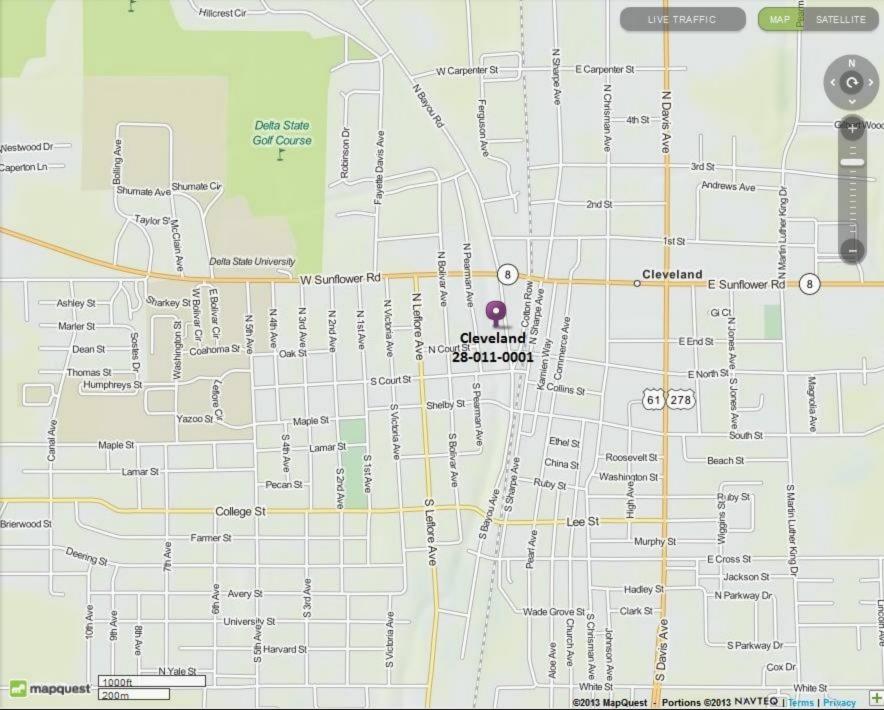


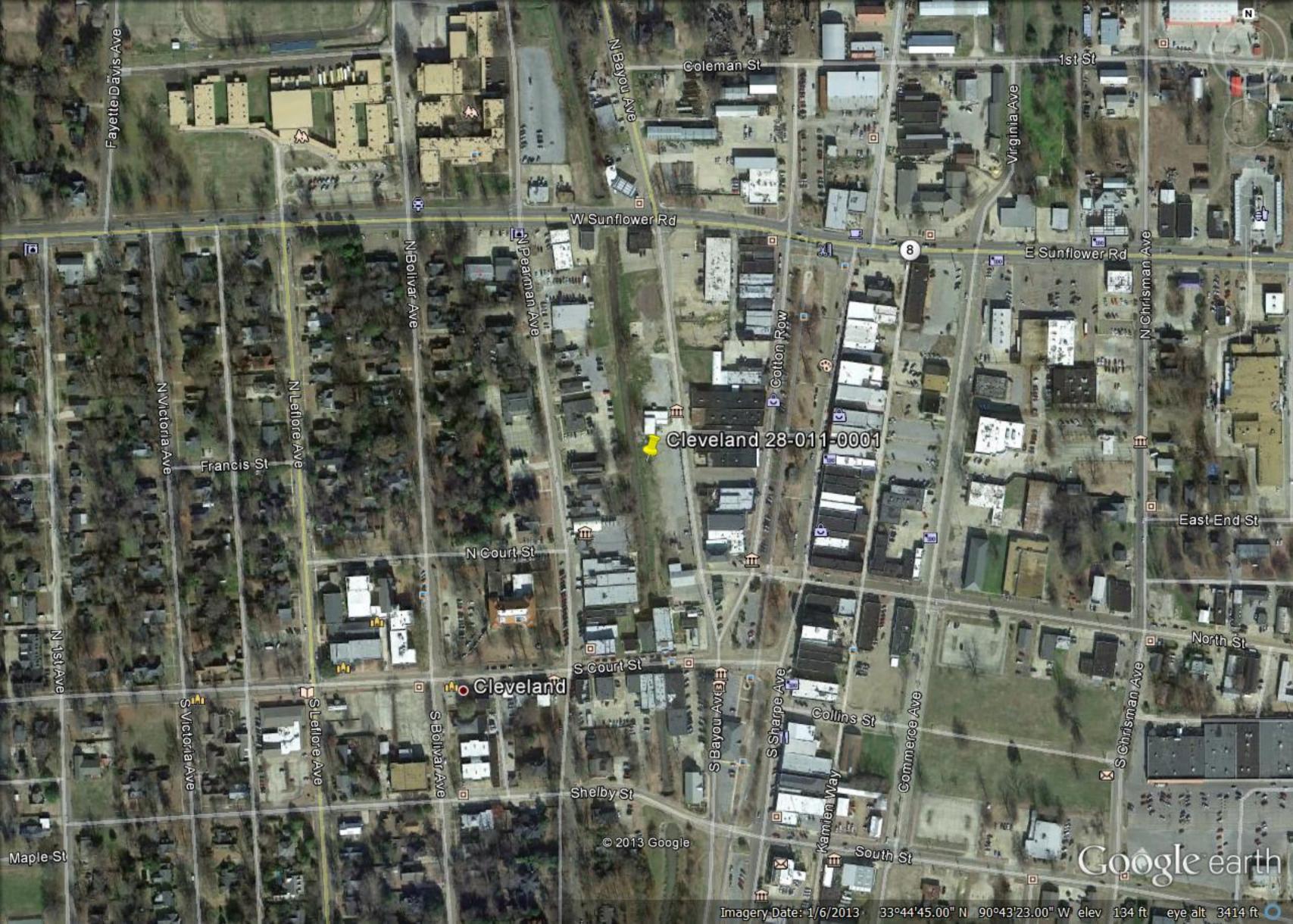




Cleveland - W

Cleveland 28-011-0001











Grenada - N

Grenada - E

Grenada - S

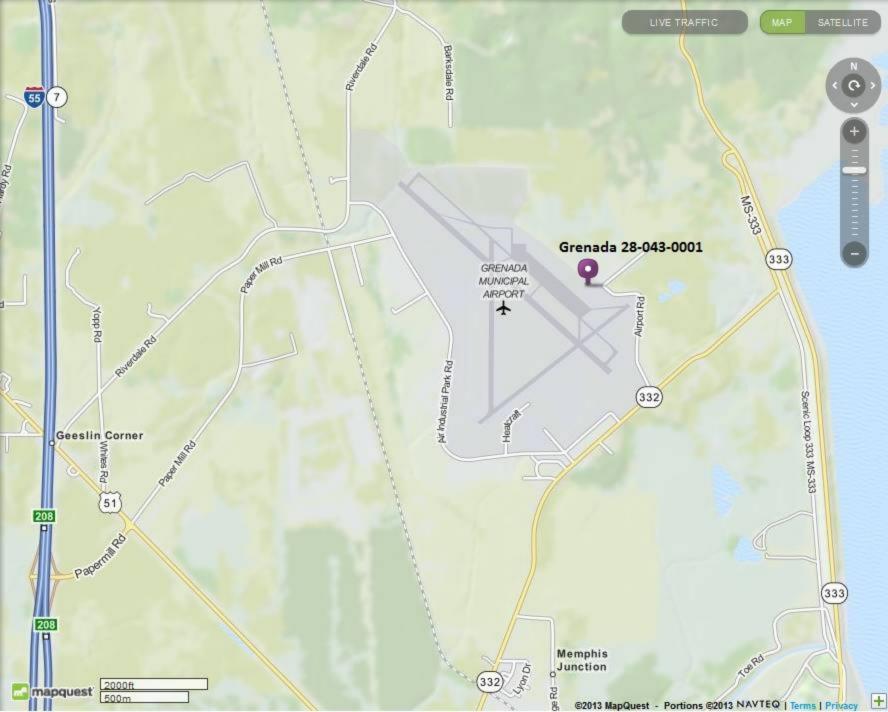


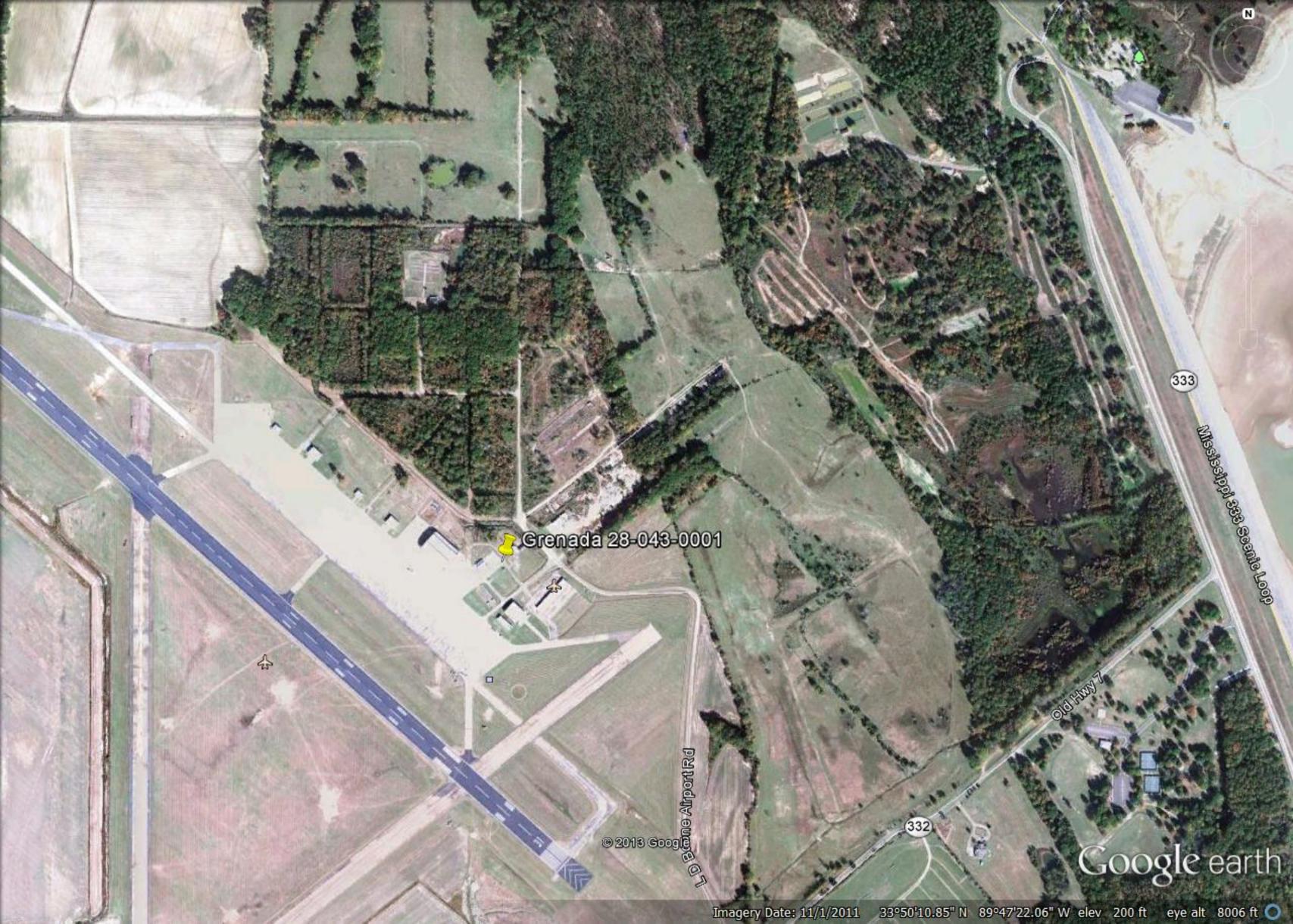
Grenada - W



Grenada 28-043-0001









Hernando - N



Hernando - E



Hernando - S

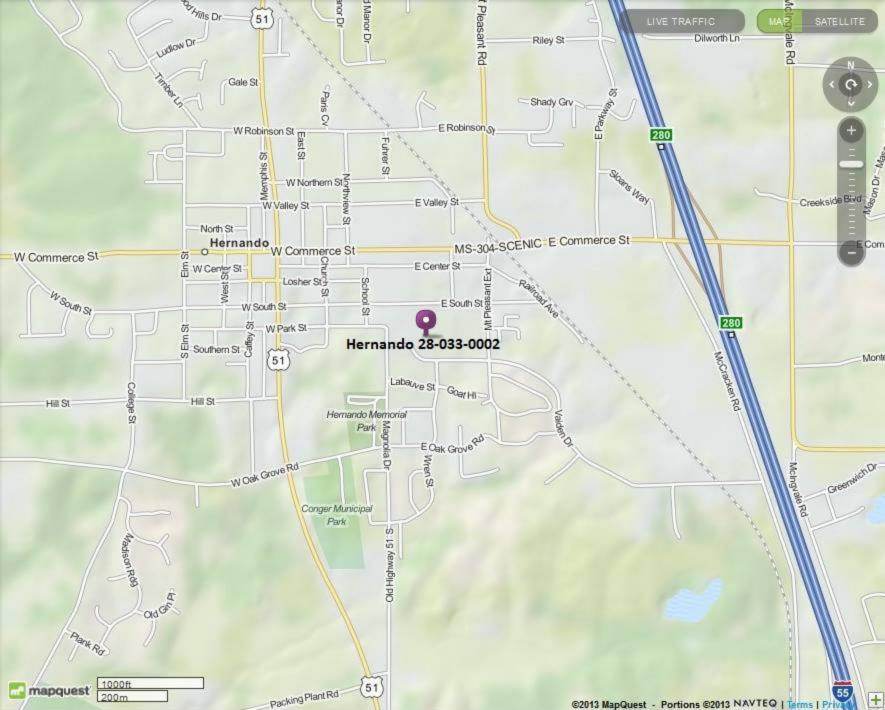


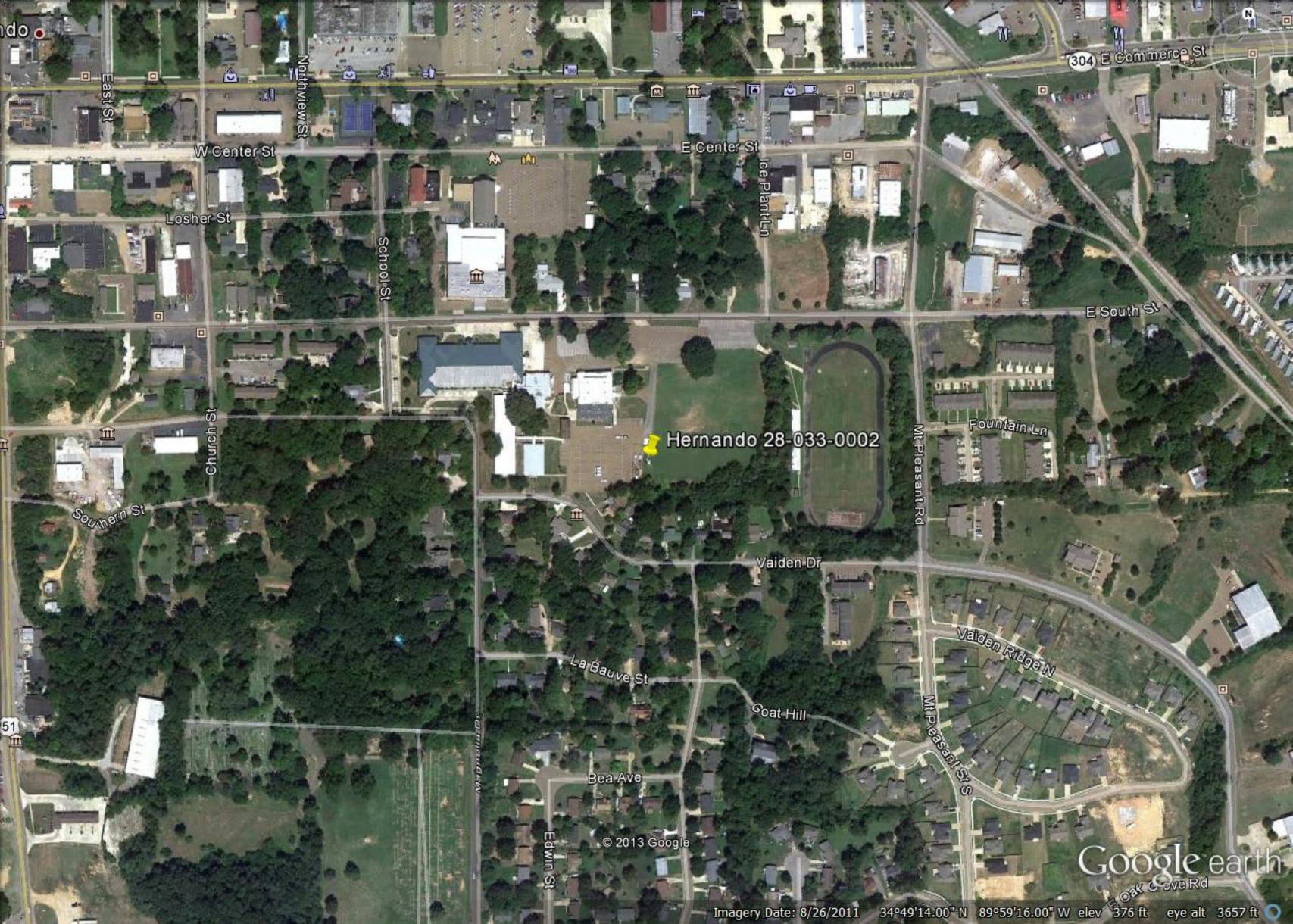
Hernando - W



Hernando 28-033-0002















Tupelo - E



Tupelo - S

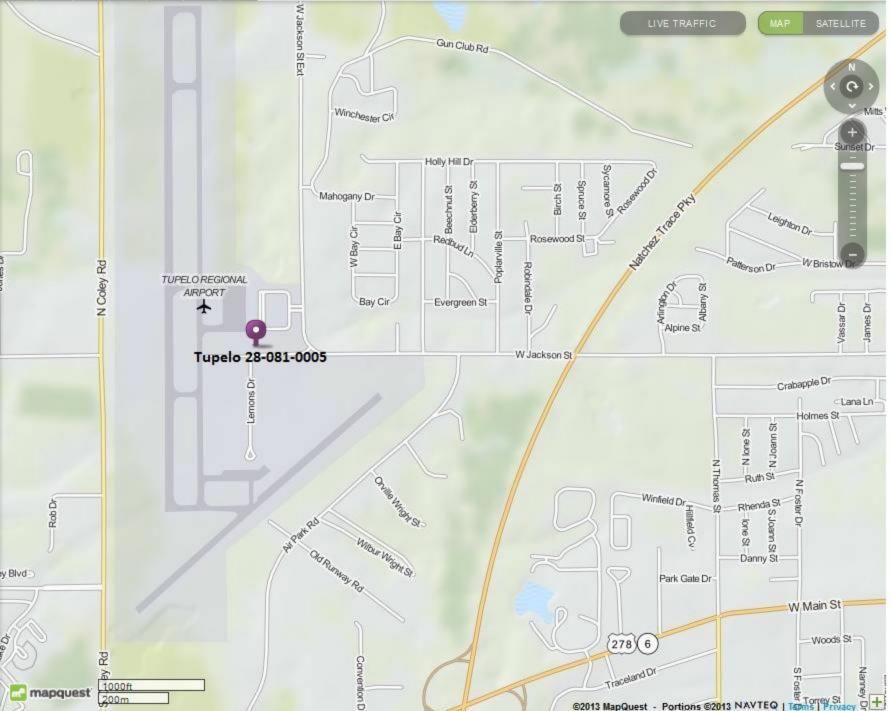


Tupelo - W



Tupelo 28-081-0005









Meridian - N



Meridian - E



Meridian - S

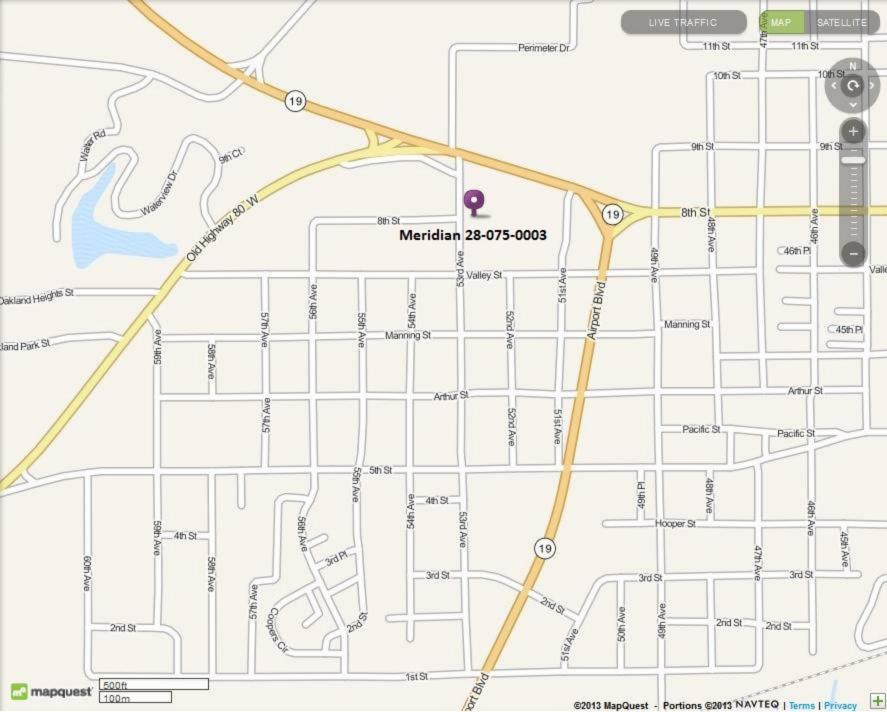


Meridian - W



Meridian 28-075-0003









Jackson NCore - N



**Jackson NCore - E** 



**Jackson NCore - S** 

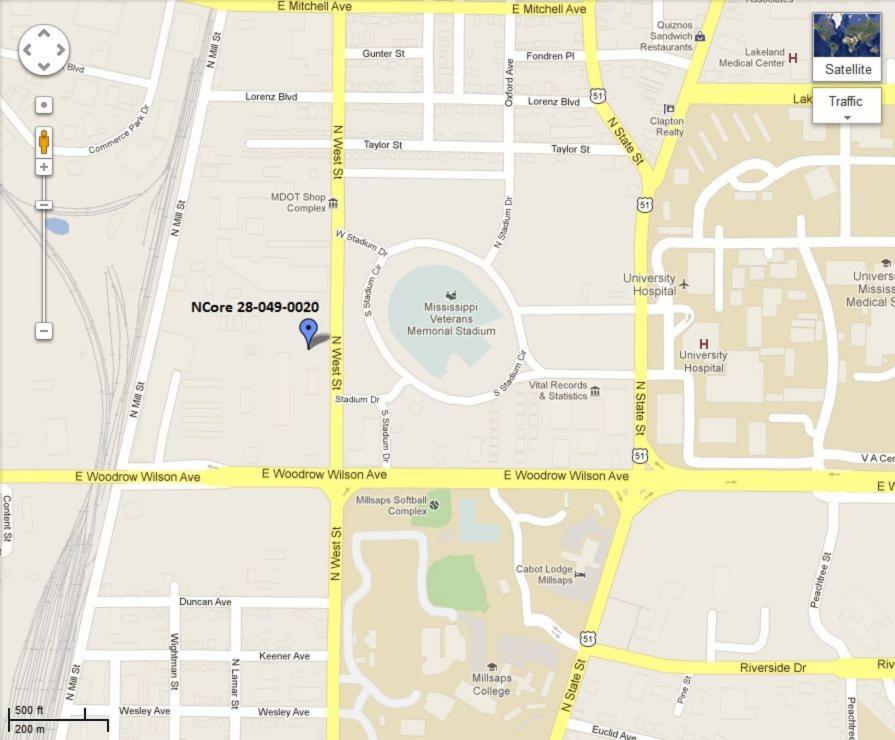


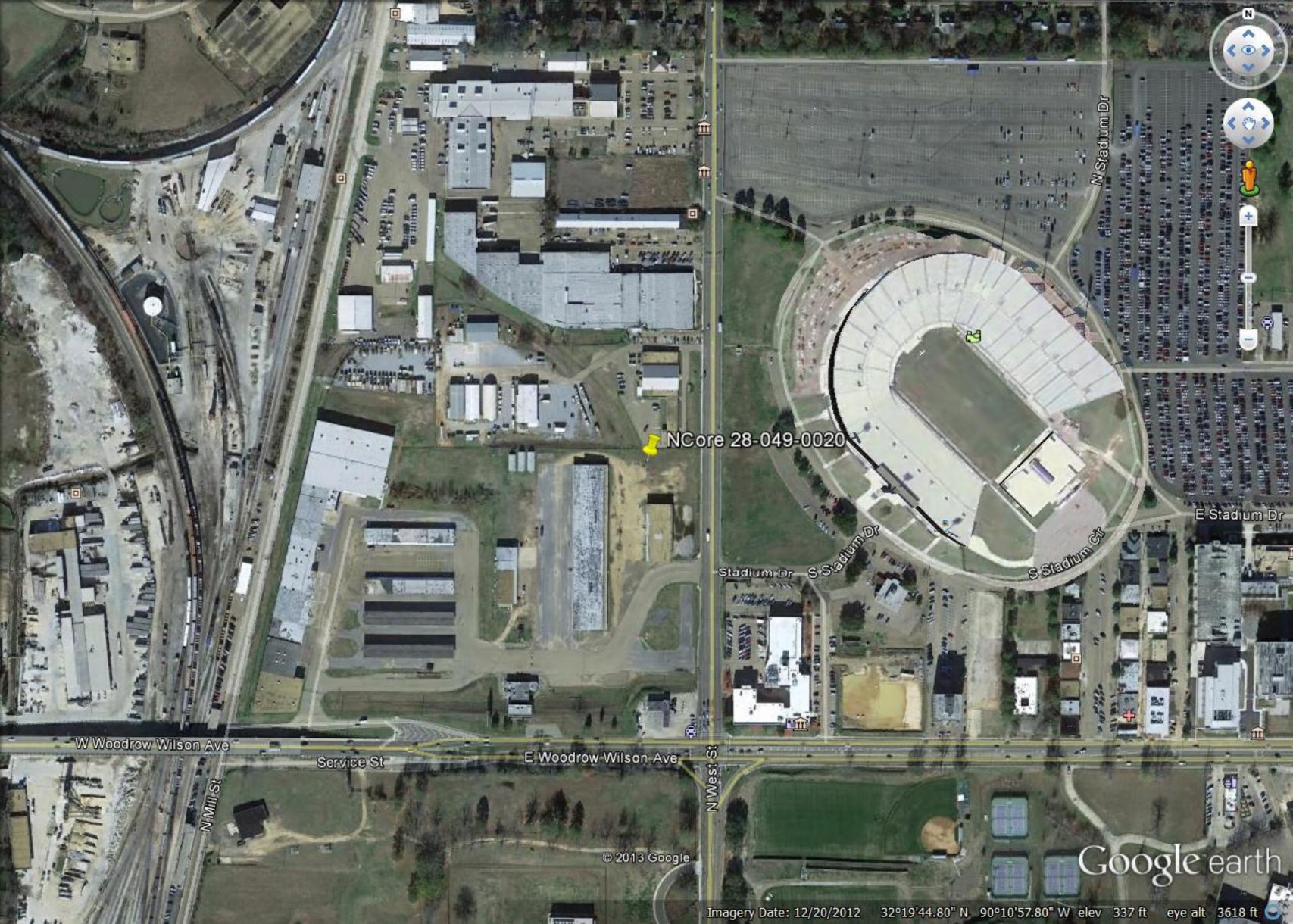
Jackson NCore - W



**Jackson NCore 28-049-0020** 

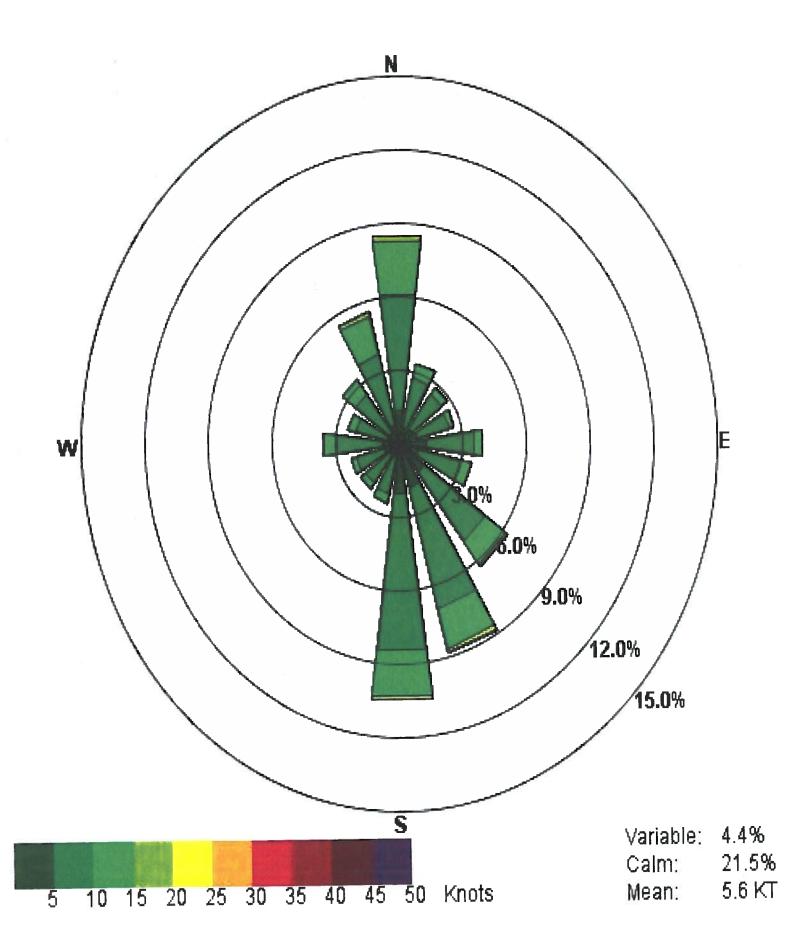






# JACKSON/ALLEN C. TH

30-year summary: 1980 - 2009





Hinds CC - N



Hinds CC - E



Hinds CC - S

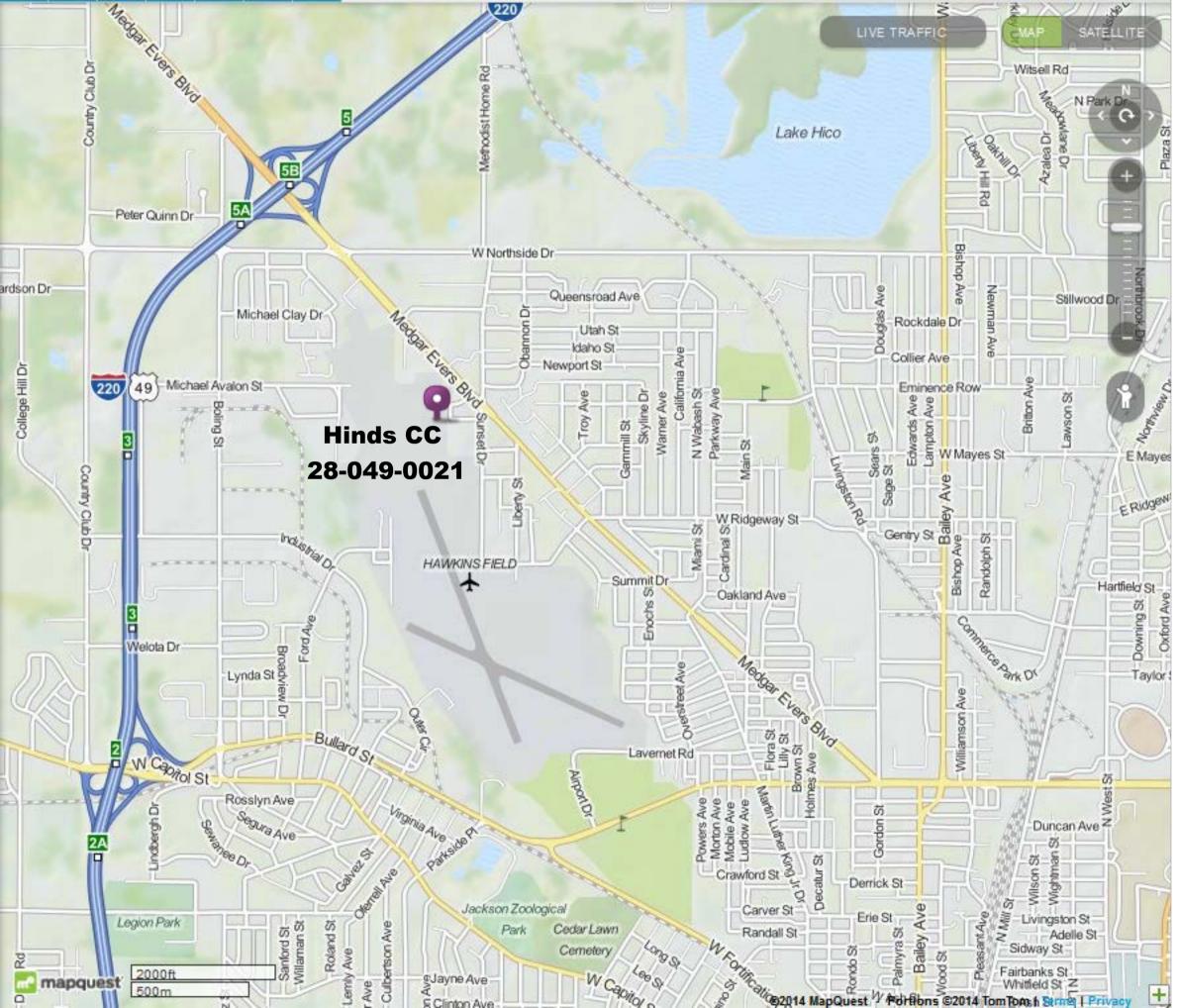


Hinds CC - W



Hinds CC 28-049-0021













Gulfport - N

Gulfport - E

Gulfport - S

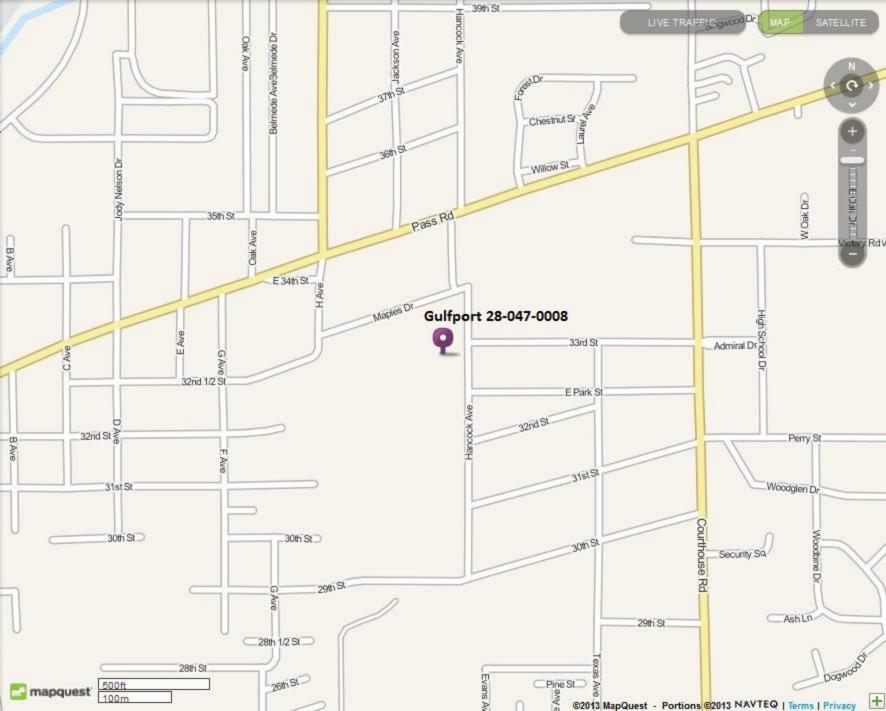


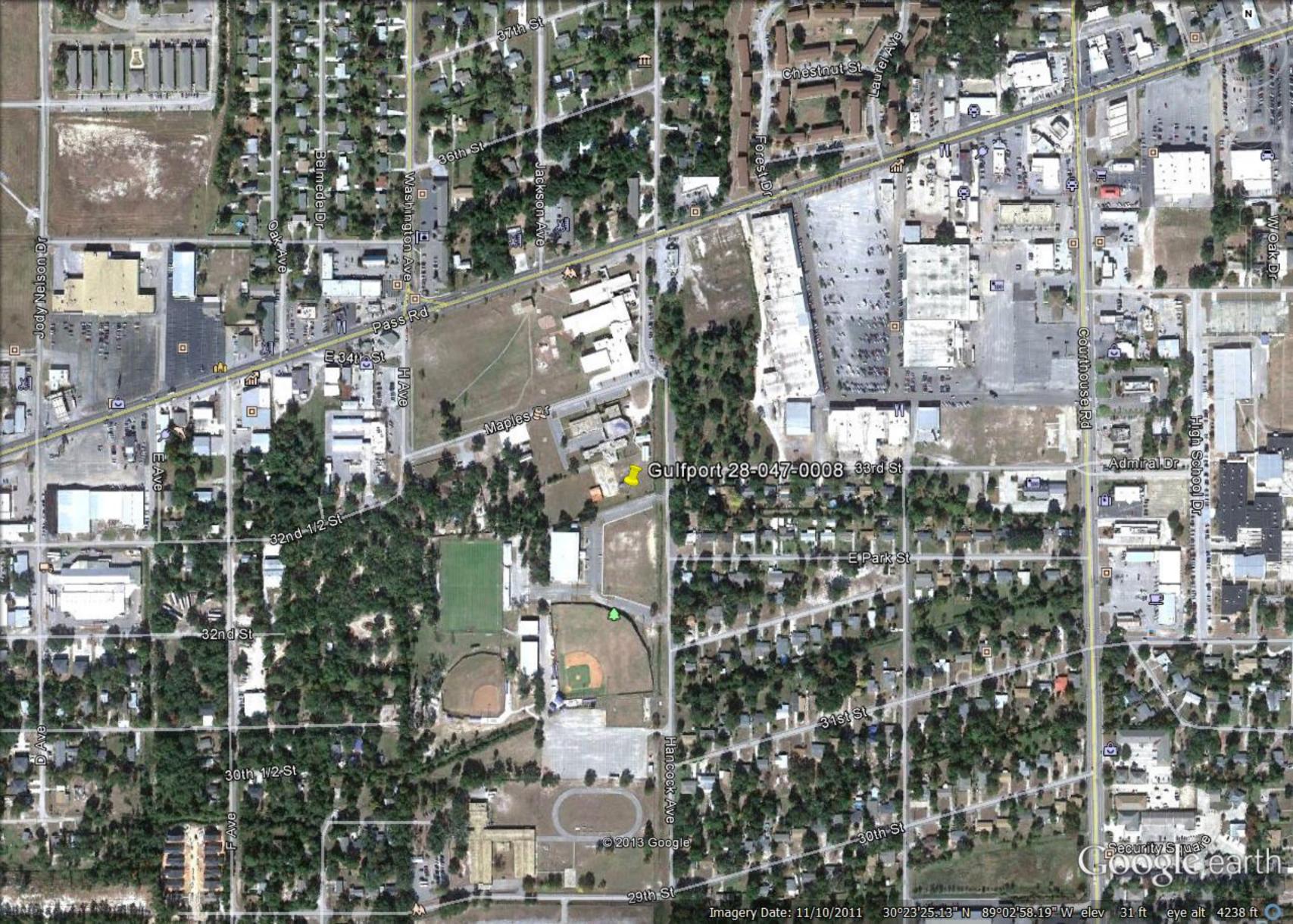




Gulfport - W

Gulfport 28-047-0008











Waveland - N

Waveland - E

Waveland - S

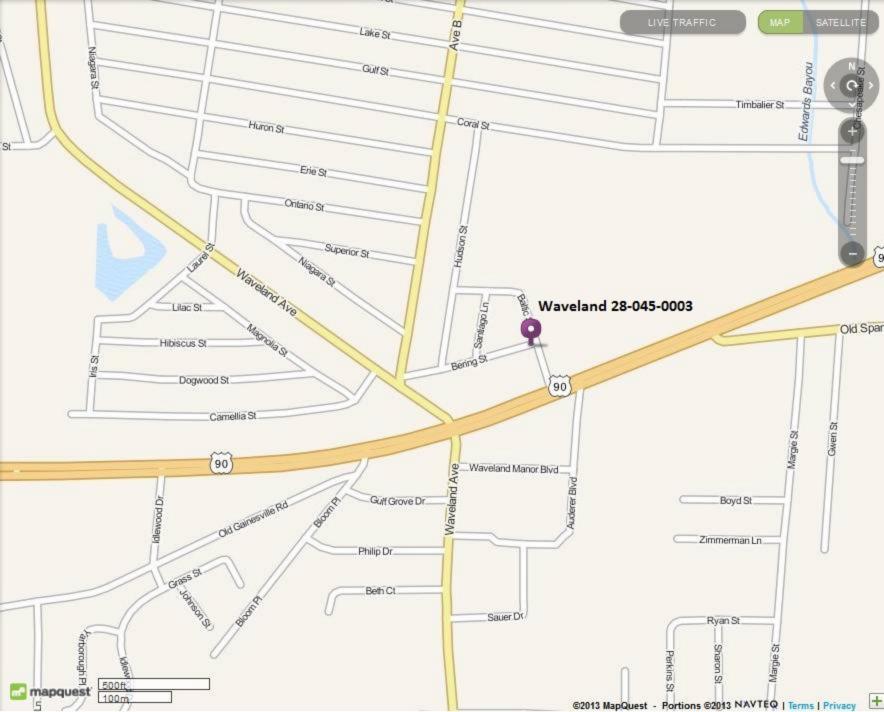






Waveland - W

Waveland 28-045-0003











Pascagoula - N

Pascagoula - E

Pascagoula - S

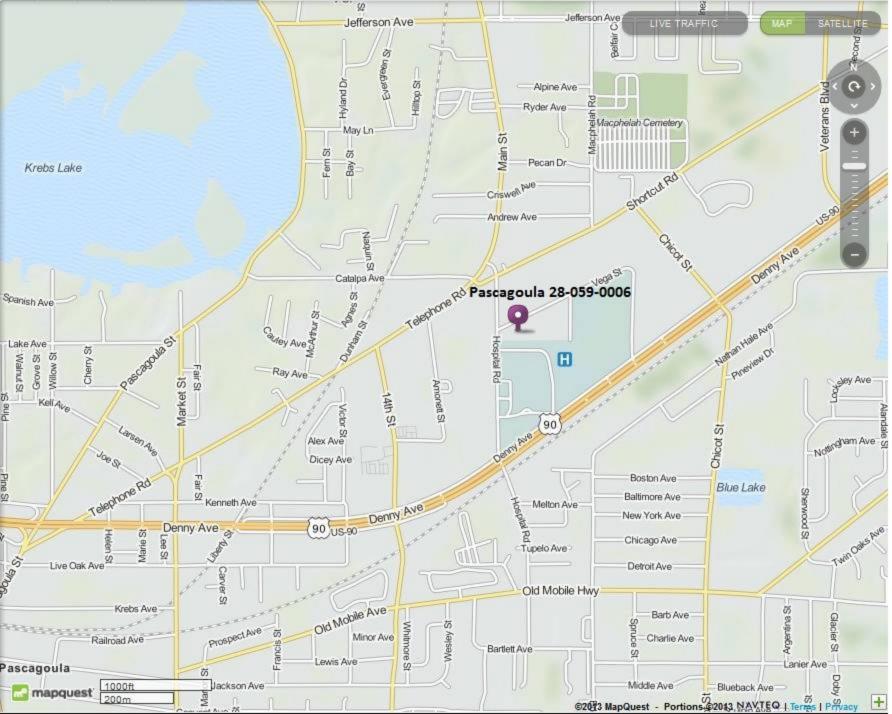


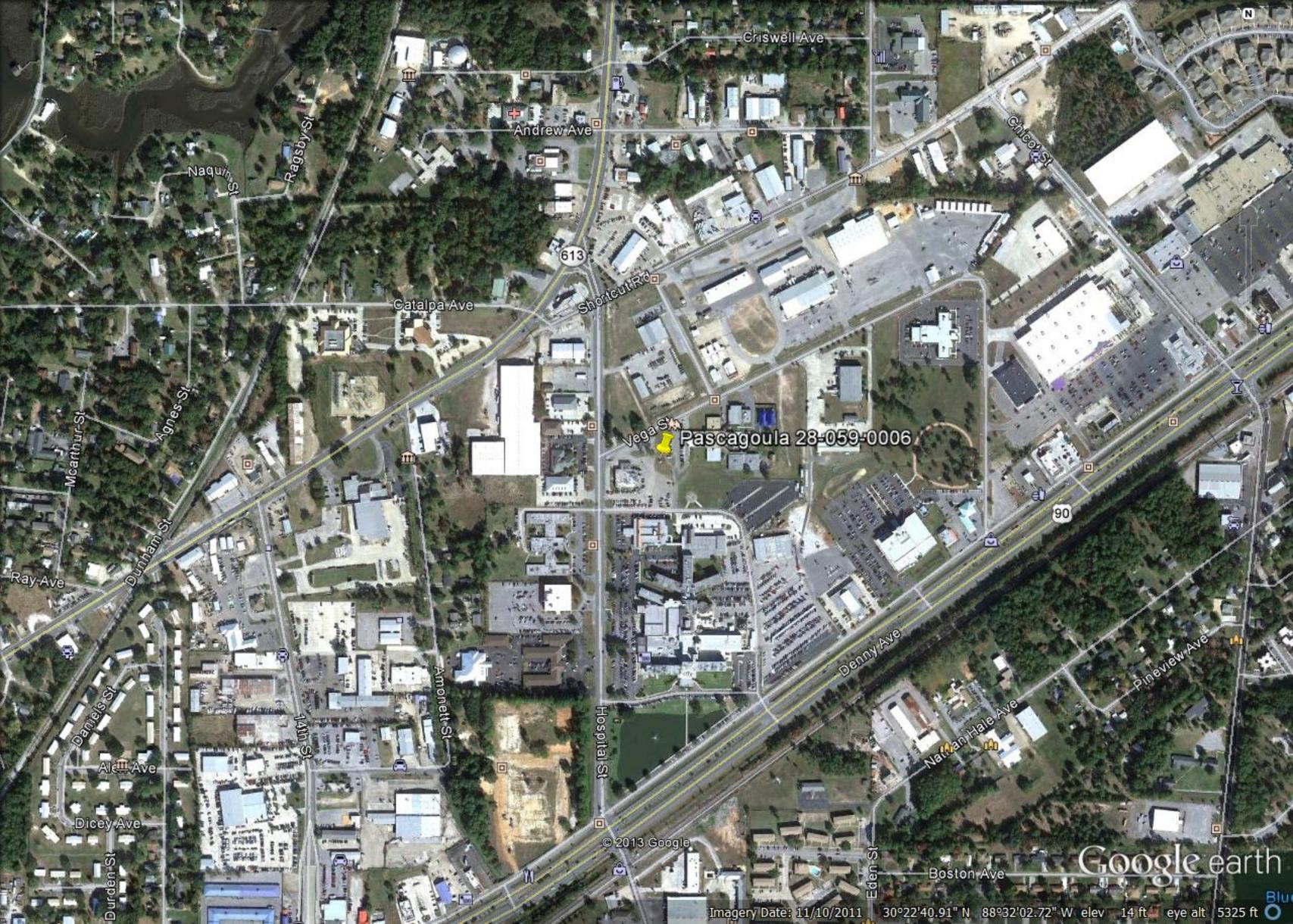




Pascagoula - W

Pascagoula 28-059-0006











Hattiesburg – N

Hattiesburg – E

Hattiesburg - S

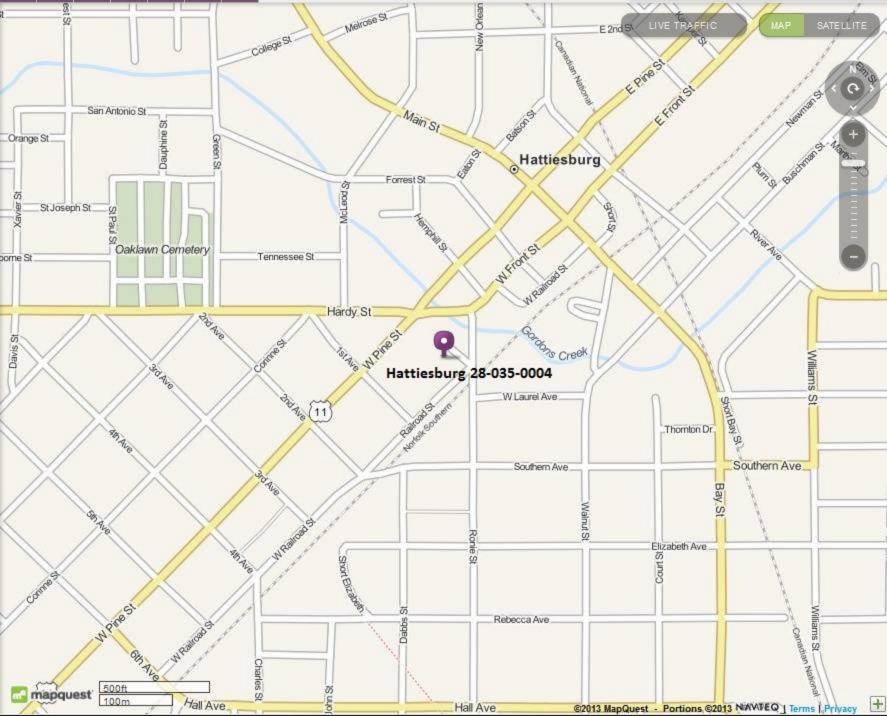


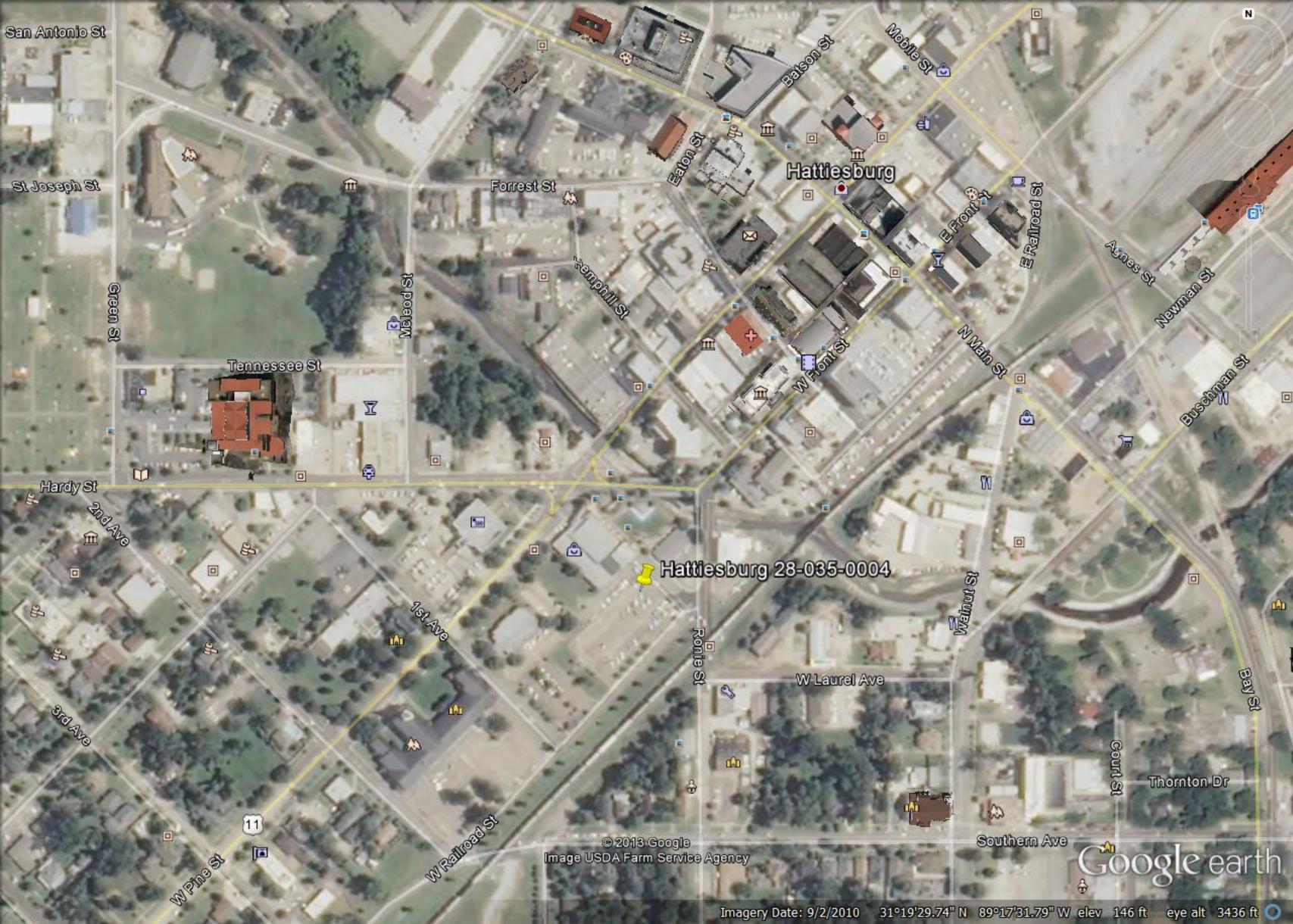




Hattiesburg – W

Hattiesburg 28-035-0004





## Appendix II Regional Monitoring Agreement



### SHELBY COUNTY HEALTH DEPARTMENT

Public Health

MARK H. LUTTRELL, JR. MAYOR ALISA R. HAUSHALTER, DNP, RN DIRECTOR

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March 28, 2016

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Dept. of Environmental Quality

Mr. Jason Stephens, Environmental Manager Tennessee Department of Environment and Conservation Air Pollution Control Division William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Ave., 15<sup>th</sup> Floor Nashville, TN 37243-1531

Mr. Dallas Baker, P.E., BCEE, Air Director Mississippi Department of Environmental Quality Office of Pollution Control, Air Division P.O. Box 2261 Jackson, MS 39201

Mr. Stuart Spencer, Chief of the Air Division Arkansas Department of Environmental Quality 5301 Northshore Dr. North Little Rock, AR 72118-5317

Dear All,

In accordance with the provisions of the Memorandum of Agreement (MOA) signed in May and June of 2008 between the Shelby County Health Department (SCHD), Mississippi Department of Environmental Quality (MDEQ) and the Arkansas Department of Environmental Quality (ADEQ), this letter serves as a notification that no changes have been made in our current network. Although we have not had any changes in the current plan, there will be modifications in the following year. We will be requesting to discontinue the CO monitor at the Alabama Station (47-157-0024), to shut down the PM 10 and collocated monitors at the Gas Service Center (47-157-0016), and to relocate the PM 2.5 monitor off the roof of Guthrie Clinic (47-157-0047) to the Alabama Station. These requests will be submitted and the changes will have to be approved by the EPA in the upcoming Network Plan.

If your agencies do not have current changes to the Network or may be contemplating changes in the near future, please notify the respective agencies of your intentions.

If you have any questions, please call me at (901) 222-9599.

Sincerely,

Robert Rogers, P.E. / Technical Manager

Robert Rogers

Pollution Control

Shelby County Health Department

# MEMORANDUM OF AGREEMENT ON AIR QUALITY MONITORING FOR CRITERIA POLLUTANTS FOR THE MEMPHIS, TN- MS- AR METROPOLITAN STATISTICAL AREA (MSA)

Participating Agencies:

Shelby County Health Department (SCHD) Air Pollution Control Program

Mississippi Department of Environmental Quality (MDEQ) Office of Pollution Control, Air Division

Arkansas Department of Environmental Quality (ADEQ)

#### **PURPOSE / OBJECTIVE / GOALS**

The purpose of this Memorandum of Agreement (MOA) is to inform the entities of the Memphis, Tennessee-Mississippi-Arkansas Metropolitan Statistical Area of monitoring network changes. The MOA between SCHD, MDEQ, and ADEQ is to collectively meet United States Environmental Protection Agency (EPA) minimum monitoring requirements for particles of an aerodynamic diameter of 10 micrometers and less (PM 10), particles of an aerodynamic diameter of 2.5 micrometers and less (PM 2.5), and ozone; as well as other criteria pollutants air quality monitoring deemed necessary to meet the needs of the MSA as determined reasonable by all parties. This MOA will formalize and reaffirm the collective agreement in order to provide adequate criteria pollutant monitoring for the Memphis, TN-MS-AR MSA as required by 40 CFR 58 Appendix D, Section 2, (e).

PM 2.5 MSA monitoring network include:

County	Federal Referenced Method PM 2.5	Continuous PM 2.5	Speciation PM 2.5	Co located PM 2.5
Shelby County,				
TN	2	1	1	. 1
SCHD				
Crittenden				
County , AR	1	1		
ADEQ				
DeSoto County,				
MS	1	1		1 1
MDEQ				

#### Criteria Air Pollutant MSA monitoring network include:

County	PM 10	<u>O</u> <sub>3</sub>	NO <sub>x</sub> /NO/NO <sub>2</sub>	CO	SO <sub>2</sub>
Shelby County, TN SCHD	2	3	1 (includes 1 at the Near Road Station)	3 (includes 1 trace at NCORE and 1 trace at the Near Road Station)	1 (trace at NCORE)
Crittenden County , AR ADEQ		1	1		
DeSoto County, MS MDEQ		1			

#### RESPONSIBILITIES / ACTIONS

Each of the parties to this Agreement is responsible for ensuring that its obligations under the MOA are met. As conditions warrant, the affected agencies may conduct telephone conference calls, meetings, or other communications to discuss monitoring activities for the MSA. Each affected agency shall inform the other affected agencies via telephone or email of any monitoring changes occurring within its jurisdiction of the MSA at its earliest convenience, after learning of the need for the change or making the changes. Such unforeseen changes may include evictions from monitoring sites, destruction of monitoring sites due to natural disasters, or any occurrences that result in an extended (greater than one quarter) or permanent change in the monitoring network.

#### LIMITATIONS

- All commitments made in this MOA are subject to the availability of appropriated funds and each agency's budget priorities. Nothing in this MOA obligates SCHD, MDEQ, or ADEQ to expend appropriations or to enter into any contract, assistance agreement, interagency agreement or other financial obligation.
- This MOA is neither a fiscal nor a funds obligation document. Any endeavor
  involving reimbursement or contribution of funds between parties to this
  agreement will be handled in accordance with applicable laws, regulations, and
  procedures, and will be subject to separate agreements that will be affected in
  writing by representatives of the parties.
- This MOA does not create any right or benefit enforceable by law or equity against SCHD, MDEQ, or ADEQ, their officers or employees, or any other person. This MOA does not apply to any entity outside SCHD, MDEQ, or ADEQ.
- No proprietary information or intellectual property is anticipated to arise out of this MOA.

#### **TERMINATION**

This Memorandum of Agreement may be revised upon the mutual consent of SCHD, MDEQ and ADEQ. Each party reserves the right to terminate this MOA. A thirty (30) day written notice must be given prior to the date of termination.