MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MONITORING NETWORK PLAN 2019

The MDEQ Air Division is receiving comments on the 2019 monitoring plan until June 30th 2018. Address comments to: MJordan@mdeq.ms.gov

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I. Background:

Federal Regulations (40 CFR 58.10) require that State and Local Agencies operating an ambient air quality monitoring network shall review their air quality monitoring network 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 shall be available for public comment. MDEQ's Monitoring Network Plan is available on the MDEQ website at *http://www.deq.state.ms.us*.

The Monitoring Network review that is 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 $PM_{2.5}$ 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 https://www.mdeq.ms.gov/air/air-quality-forecast/. In addition, hourly ozone, PM continuous, NO_2, SO_2, 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 08/13/14, while the Criteria Pollutants QAPP is dated 10/01/06. MDEQ has submitted an updated QAPP to EPA for review.

40 CFR 58 has set minimum monitoring requirements 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 has installed eight FEM $PM_{2.5}$ continuous monitors at sites across the state. MDEQ will report this data to AQS with no exclusion beginning January 01, 2019. 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:***

1. **Hernando** (DeSoto Co. 28.033.0002) – MDEQ will discontinue the FRM $PM_{2.5}$ and Collocated FRM $PM_{2.5}$ monitor at this site. In 2017, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site that is designated as a transport monitor and therefore is a required monitor. In addition, an ozone monitor is 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 of this agreement is attached (see Appendix II) and is on file at EPA Region 4.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone sample inlet is approximately 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.

    - **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:*

1. **Jackson NCore** (Hinds Co. 28.049.0020) – The NCore site contains a full complement of instruments, including meteorological. The monitoring parameters currently include Ozone, Sulfur Dioxide, Carbon Monoxide, Nitric Oxides as NOy, manual FRM $PM_{2.5}$, continuous FEM $PM_{2.5}$, continuous FEM PM_{10}, FEM $PM_{10-2.5}$, speciated $PM_{2.5}$, wind speed, wind direction, ambient temperature, and relative humidity. The FEM $PM_{2.5}$ continuous monitor will operate as the primary $PM_{2.5}$ monitor while the FRM $PM_{2.5}$ will operate 1/3 days.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone, carbon monoxide and sulfur dioxide sample inlet is approximately 4.5 meters above ground level. The nitric oxide sample inlet is approximately 8 meters above ground level. The continuous FEM $PM_{2.5}$, FEM PM_{10}, FEM $PM_{10-2.5}$, and speciated $PM_{2.5}$ sample inlet is approximately 4 meters above ground level. Each sample inlet is approximately 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.

2. **Jackson Metro** (Hinds Co. 28.049.0021) – MDEQ will discontinue the FRM $PM_{2.5}$ monitor. In 2017, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site. This monitor will continue to operate at this site. In addition, 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 ozone sample inlet is approximately 4.5 meters above ground level, while the continuous $PM_{2.5}$ is approximately 4.2 meters above ground level. Both the ozone and continuous $PM_{2.5}$ monitors are approximately 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.

3. Hattiesburg MSA:

1. **Hattiesburg** (Forrest Co. 28.035.0004) – MDEQ will discontinue the FRM $PM_{2.5}$ monitor. The collocated FRM $PM_{2.5}$ monitor will continue to operate on a 1/6 day schedule to meet MDEQ's collocated requirements. In 2017, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site. This monitor will continue to operate as the primary $PM_{2.5}$ monitor at this site.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The continuous FEM $PM_{2.5}$ sample inlet is approximately 3.5 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:

1. **Gulfport** (Harrison Co. 28.047.0008) – MDEQ will discontinue the FRM $PM_{2.5}$ monitor. In 2017, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site. This monitor will continue to operate at this site. In addition, an ozone monitor is operated at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone sample inlet is approximately 4.5 meters above ground level, while the continuous $PM_{2.5}$ is approximately 4.2 meters above ground level. Both the ozone and continuous $PM_{2.5}$ monitors are approximately 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.

2. **Waveland** (Hancock Co. 28.045.0003) – MDEQ will discontinue the FRM $PM_{2.5}$ monitor. In 2017, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site. This monitor will continue to operate at this site. In addition, an ozone monitor is operated at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone sample inlet is approximately 5.5 meters above ground level while the continuous $PM_{2.5}$ is approximately 5.2 meters above ground level. Both the ozone and continuous $PM_{2.5}$ monitors are approximately 24 meters, northwest, from the nearest road.

- **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:

1. **Pascagoula** (Jackson Co. 28.059.0006) – MDEQ will discontinue the FRM $PM_{2.5}$ monitor. In 2017, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site. This monitor will continue to operate at this site. In addition, an ozone, NO_x, and SO_2 monitor is operated at this site. The NO_x analyzer is designated as a RA-40 site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone, SO2, and NOx sample inlet is approximately 4.5 meters above ground level, while the continuous FEM $PM_{2.5}$ inlet is approximately 4.2 meters above ground level. The ozone, SO2, NOx, and continuous FEM $PM_{2.5}$ monitor inlet is approximately 43 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.

6. Non- MSA Sites:

1. **Grenada** (Grenada Co. 28.043.0001) – MDEQ is asking permission, from EPA, to discontinue the FRM $PM_{2.5}$ monitor and shut down this site on December 31, 2018. The FRM $PM_{2.5}$ is the only monitor at this site. The site is close to an airplane hangar that is used to paint airplanes. As noted in the last TSA, the site should be relocated because of paint particles being exhausted in the direction of the FRM $PM_{2.5}$. MDEQ will use the Cleveland site, 28.011.0002, as the new background site to meet the requirements of 40 CFR Part 58, Appendix D, Section 4.7.3. The annual mean and 24 hour design values from 2011 through 2017, for the Grenada site, are below the 85% NAAQS. See the table below.

Grenada 2.5 NAAQS Information

Annual Mean Design value. Standard 12 ug/m^3	Years	Design Value	Percent of NAAQS
	2011-13	9.3	77.5
	2012-14	9.0	75.0
	2013-15	8.1	67.5
	2014-15	7.5	62.5
	2015-17	7.2	60.0
24 Hour Design Value. Standard 35 ug/m^3	Years	Design Value	Percent of NAAQS
	2011-13	20.0	57.1
	2012-14	19.7	56.4
	2013-15	18.0	51.4
	2014-15	16.6	47.4
	2015-17	14.3	40.9

2. **Meridian** (Lauderdale Co. 28.075.0003) – An ozone monitor is operated at this site.

- **Site Approval Status:** Site and monitor meet all design criteria for the monitoring network. The ozone sample inlet is approximately 4.5 meters above ground level and approximately 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.

3. **Tupelo** (Lee Co. 28.081.0005) – An ozone monitor is operated at this site.

    - **Site Approval Status:** Site and monitor meet all design criteria for the monitoring network. The ozone sample inlet is approximately 4 meters above ground level and approximately 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.

4. **Cleveland** (Bolivar Co. 28.011.0002) – MDEQ received approval from EPA to relocate the Cleveland site to Delta State University. The physical address for Delta State University is Highway 8 West, Cleveland, MS 38733 and the GPS coordinates are latitude 33˚ 45' 3.02˚N and longitude 90˚ 44' 3.03˚W. The new site location is approximately 0.72 miles northwest of the previous site (28.011.0001). The new AQS number for the new Cleveland site (Delta State) is 28.011.0002. In 2018, MDEQ installed a continuous FEM $PM_{2.5}$ monitor at this site as a background monitor for $PM_{2.5}$ as required by regulations. In addition, an ozone monitor will be operated at this site.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone sample inlet is approximately 4.5 meters above ground level, while the continuous FEM $PM_{2.5}$ is approximately 4.2 meters above ground level. Both the ozone and continuous FEM $PM_{2.5}$ are approximately 71.7 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.

IV. *NCore Tables:*

NCore Site Table

AQS ID	MSA	Site Name	County	City	Latitude	Longitude	Street Address	Elevation (meters)	Site start date	Location Setting
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	Type	Method	Schedule	Comment
CO	Pop. Exp.	Neighborhood	NCore	Continuous Monitor	Non-Dispersive IR	Jan-Dec	
NO_y	Pop. Exp.	Neighborhood /Urban	NCore	Continuous Monitor	Chemiluminescence	Jan-Dec	
O_3	Pop. Exp.	Neighborhood /Urban	NCore	Continuous Monitor	UV Photometry	Jan-Dec	
SO_2	Pop. Exp.	Neighborhood	NCore	Continuous Monitor	UV fluorescence	Jan-Dec	
FRM $PM_{2.5}$	Pop. Exp	Neighborhood	NCore	Manual Reference Monitor (3 Day)	Gravimetric Analysis	Jan-Dec	
FEM $PM_{2.5}$	Pop. Exp	Neighborhood	NCore	Continuous Monitor	Broadband Spectroscopy	Jan-Dec	T640x
$PM_{2.5}$ Speciation	Pop. Exp	Neighborhood	NCore	Manual Monitor (3 Day)	Multiple Methods	Jan-Dec	
PM coarse	Pop. Exp	Neighborhood	NCore	Continuous Monitor	Difference by Broadband Spectroscopy	Jan-Dec	T640x
Meteorological	--	--	NCore	--	Wind speed, direction, ambient temperature, humidity	Jan-Dec	
Radiation	Pop. Exp	Urban	Rad Net	Continuous / Manual Monitor		Jan-Dec	Non NCore

V. ***Network Tables:***

NETWORK DESIGN TABLES MISSISSIPPI

PM_{10}

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Collocated	Type	Method	Schedule	Comment
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Urban	1	No	Continuous	239	Jan-Dec	T640x

$PM_{2.5}$

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	No	Continuous	236 T640	Jan-Dec
Hattiesburg	Forrest	Hattiesburg	28-035-0004	Pop. Exp.	Neighborhood	1	Yes	Manual (1/6 day) collocated Continuous	145 SEQ 236 T640	Jan-Dec Jan-Dec
Waveland	Hancock	Gulf/Biloxi	28-045-0003	Pop. Exp.	Neighborhood	0	No	Continuous	236 T640	Jan-Dec
Gulfport	Harrison	Gulf/Biloxi	28-047-0008	Pop. Exp.	Neighborhood	1	No	Continuous	236 T640	Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	No	Continuous	236 T640	Jan-Dec
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	No	Manual (3 Day) Continuous (primary) PM10-2.5	145 SEQ 238 T640x 240 T640x	Jan-Dec Jan-Dec Jan-Dec
Jackson	Hinds	Jackson	28-049-0021	Pop. Exp.	Neighborhood	1	No	Continuous	236 T640	Jan-Dec
Cleveland	Bolivar	N/A	28-011-0002	Background	Neighborhood	1	No	Continuous	236 T640	Jan-Dec

Comments: All manual monitors are FRM and classified as SLAMS. The continuous FEM monitors will be primary.

SO_2

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	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_x/NO_y

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	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

CO

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	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	Type	Method	Schedule
Cleveland	Bolivar	N/A	28-011-0002	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 SLAM

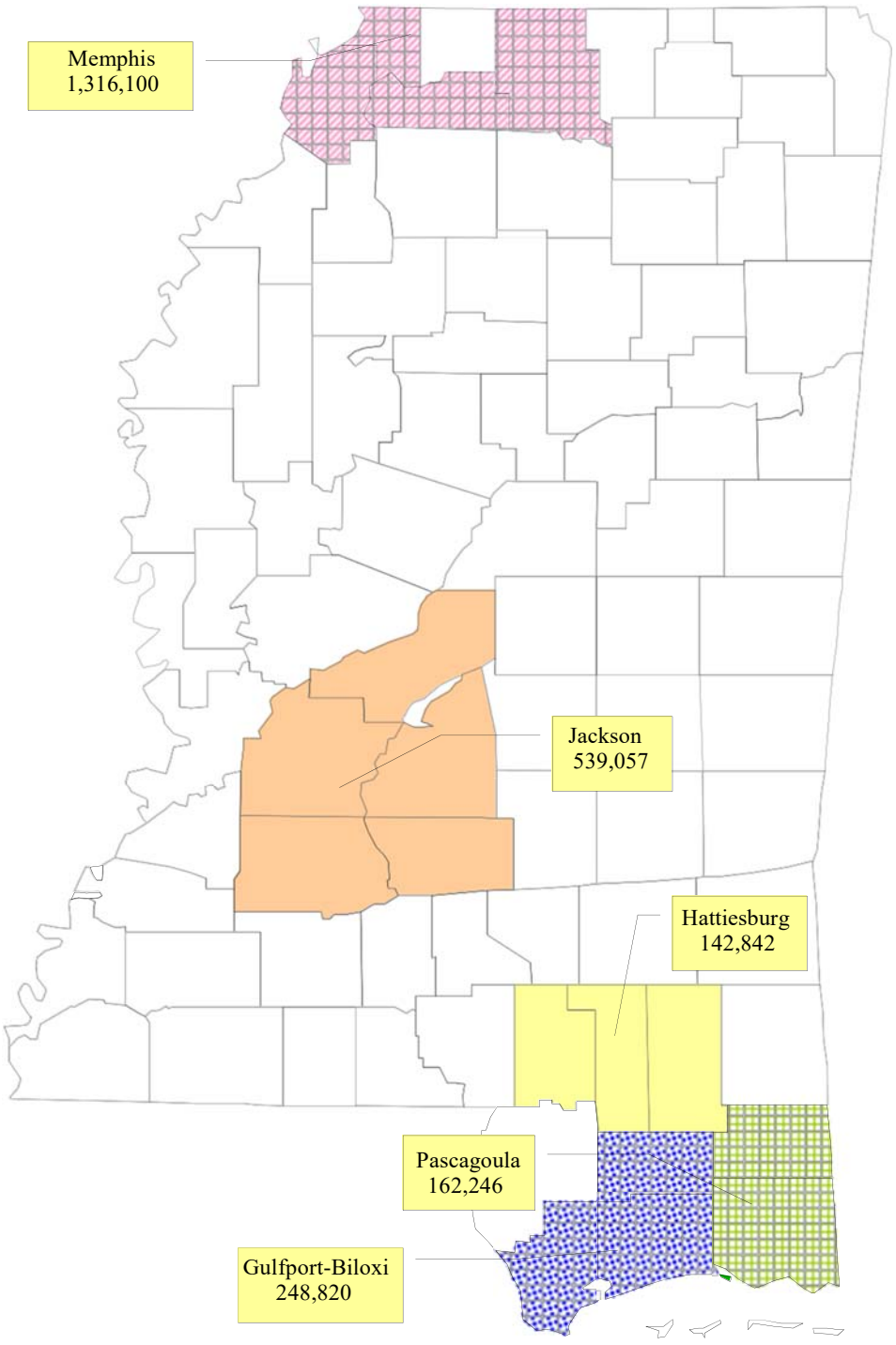
Site Location Coordinates

#	SITE ID	LAT			LONG			NAME	COUNTY	ADDRESS
1	28-011-0002	33	45	3	90	44	3	CLEVELAND	BOLIVAR	HWY 8 Cleveland (Delta State)
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	28-045-0003	30	18	4	89	23	45	WAVELAND	HANCOCK	400 Baltic St.
5	28-047-0008	30	23	24	89	2	59	GULFPORT YC	HARRISON	47 Maples Dr.
6	28-049-0021	32	19	14	90	10	50	HINDS CC	HINDS	3925 Sunset Dr.
7	28-049-0020	32	19	45	90	10	58	JACKSON NCORE	HINDS	232 E Woodrow Wilson
8	28-059-0006	30	22	41	88	32	2	PASCAGOULA	JACKSON	Hospital Rd. and Vega St.
9	28-075-0003	32	21	52	88	43	53	MERIDIAN	LAUDERDALE	Hwy 19 and 53rd Ave.
10	28-081-0005	34	15	54	88	45	58	TUPELO	LEE	West Jackson at Tupelo Airport

Appendix I

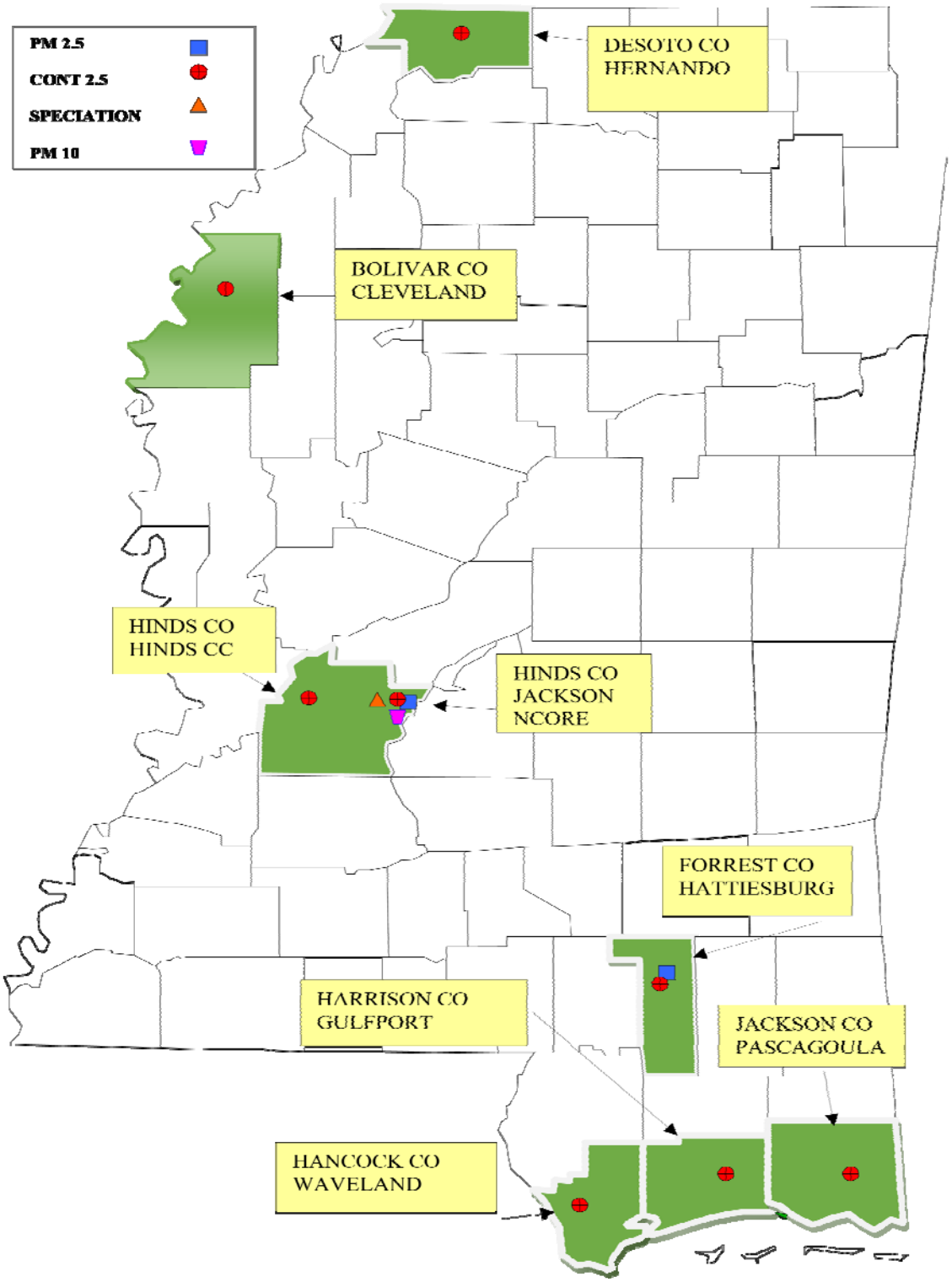
MSA and Pollutant Maps

MSA MAP:

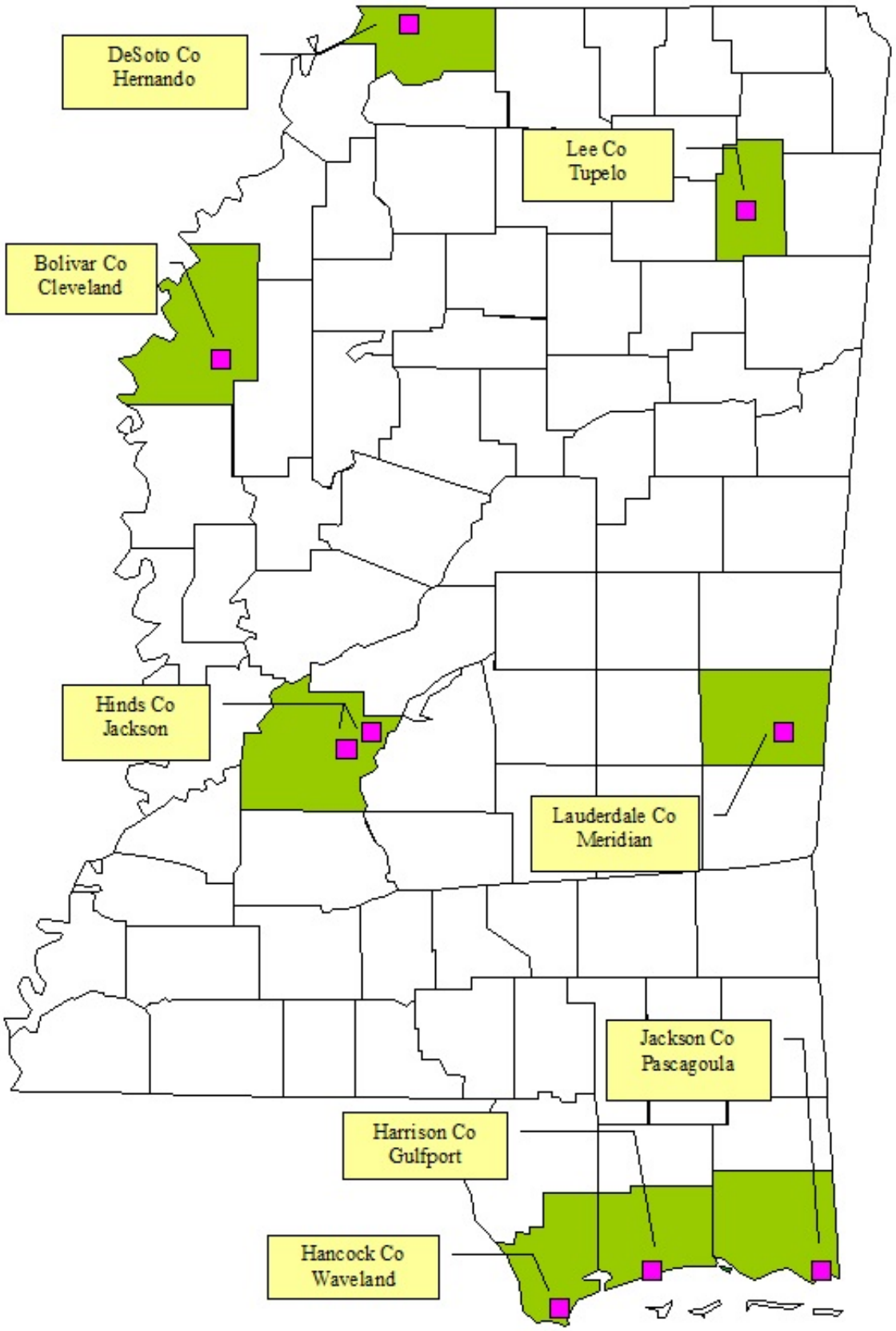


MISSISSIPPI MSA AREAS

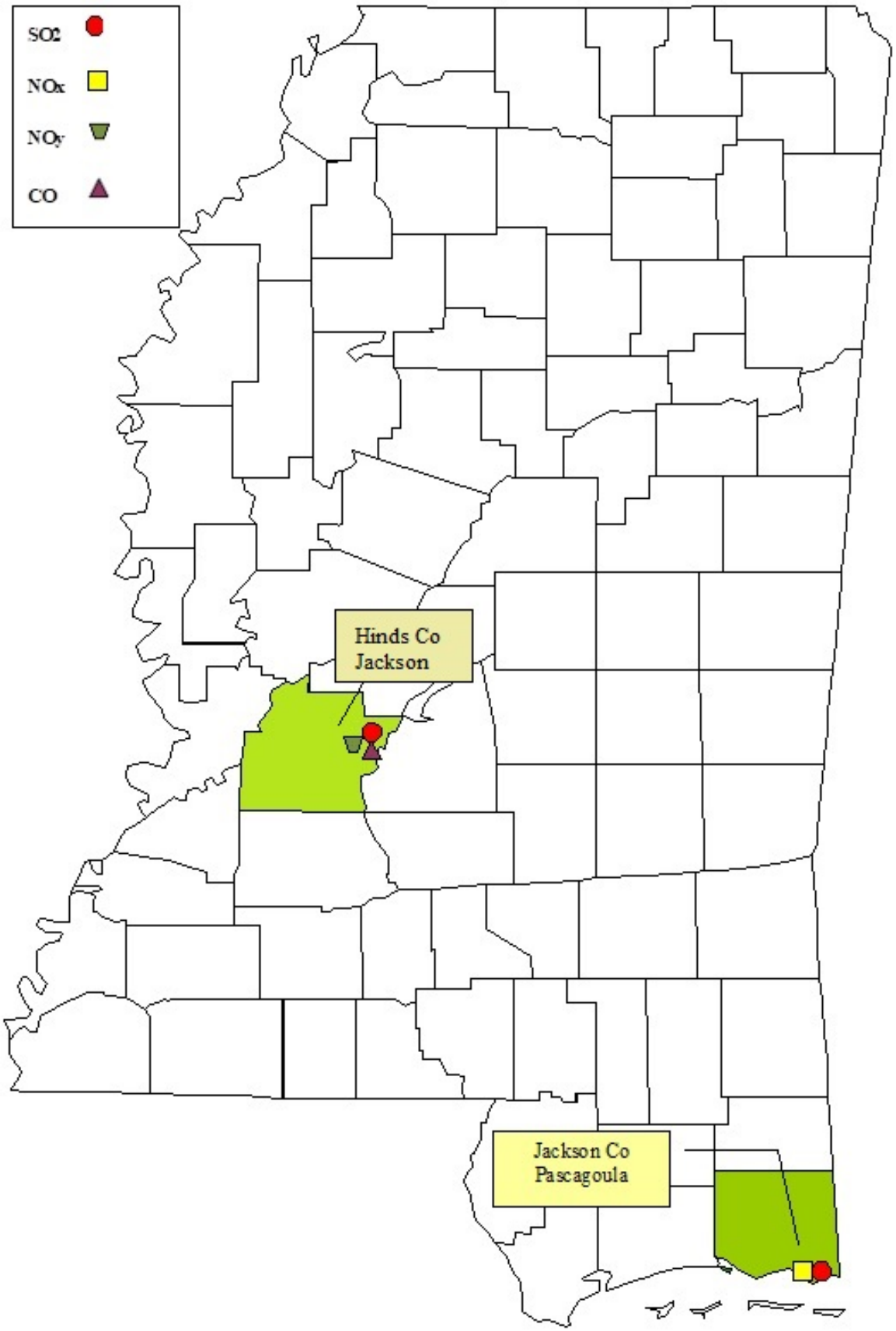
MEMPHIS – DeSoto, Tunica, Marshall, Tate
JACKSON – Hinds, Rankin, Copiah, Simpson, Madison
HATTIESBURG – Lamar, Forrest, Perry GULFPORT-BILOXI – Hancock, Harrison, Stone PASCAGOULA – Jackson, George



MDEQ PARTICUALTE SITES-2019



MDEQ Ozone Sites - 2019



MDEQ SO2 / NOx/ NOy/ CO SITES - 2019

Appendix II

Site Maps and Photos

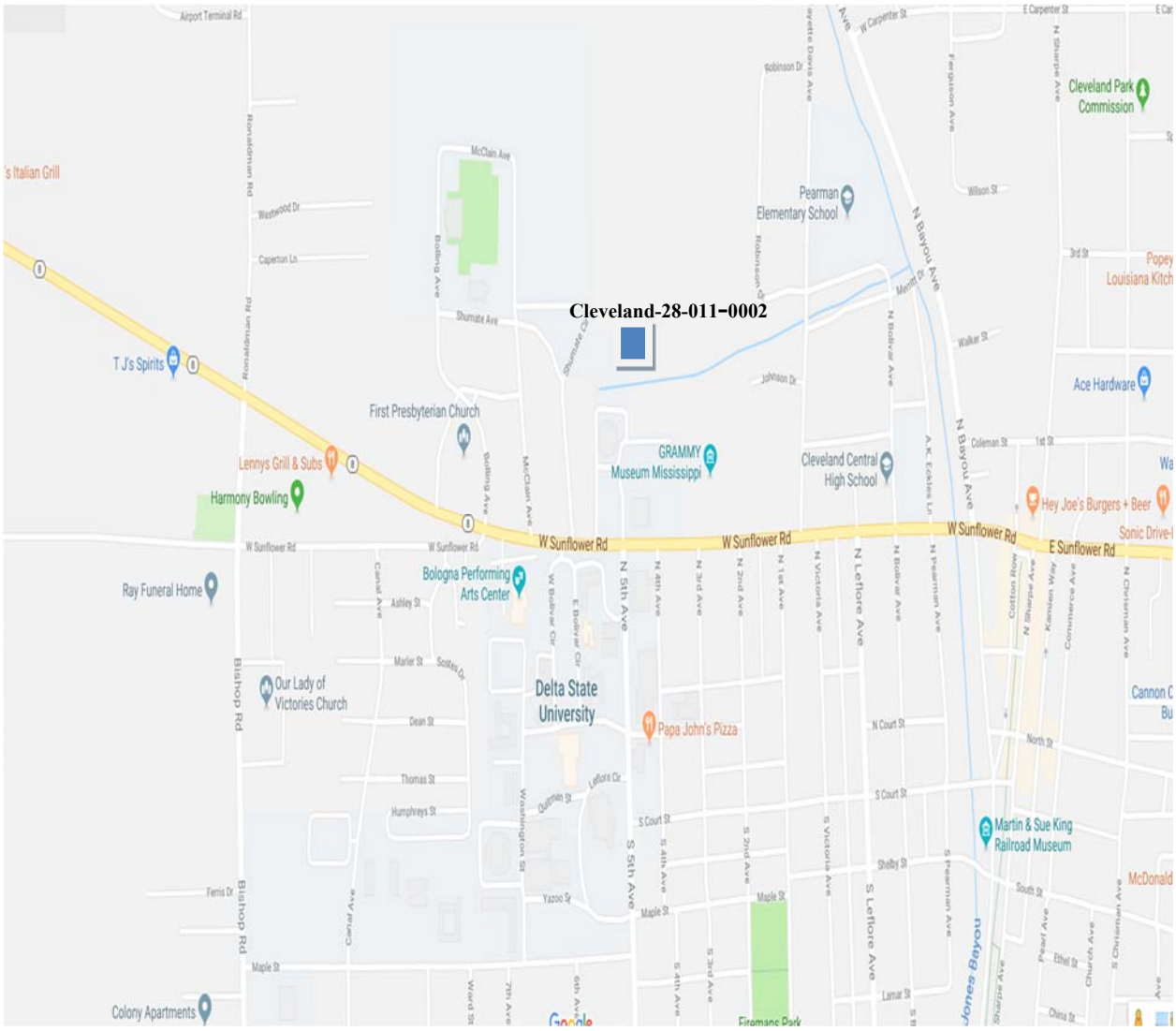
Cleveland - N

Cleveland - S

Cleveland - W

Cleveland - E

Cleveland 28-011-0002


Cleveland-28-011-0002
Airport Terminal Rd
Cleveland Park Commission
Pearman Elementary School
McClain Ave
Westwood Dr
Caperton Ln
Rolling Ave
Shumate Ave
Robinson Dr
N Bayou Ave
Wilson St
3rd St
Walker St
Johnson Dr
Ace Hardware
T J's Spirits
First Presbyterian Church
Lennys Grill & Subs
Harmony Bowling
GRAMMY Museum Mississippi
Cleveland Central High School
Coleman St
1st St
Hey Joe's Burgers + Beer
W Sunflower Rd
E Sunflower Rd
Ray Funeral Home
Bologna Performing Arts Center
Ashley St
Marler St
Our Lady of Victories Church
Bishop Rd
Delta State University
Papa John's Pizza
Dean St
Thomas St
Humphreys St
N Court St
S Court St
North St
Martin & Sue King Railroad Museum
Shelby St
South St
Maple St
Ferris Dr
Colony Apartments
Lamar St
Jones Bayou
Pearl Ave
Ethel St
Church Ave
China St
Firemans Park
Google


Tim & Nancy Harvey Stadium at Dave " Boo...
Robinson Dr
Cleveland 28-011-0002
Shumate Cir
Shumate Cir
Walter Sillers Coliseum
GRAMMY Museum Mississippi
Interactive exhibits &...
Office of Admissions
McClain Ave
Shumate Cir
ATM
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Hernando - N

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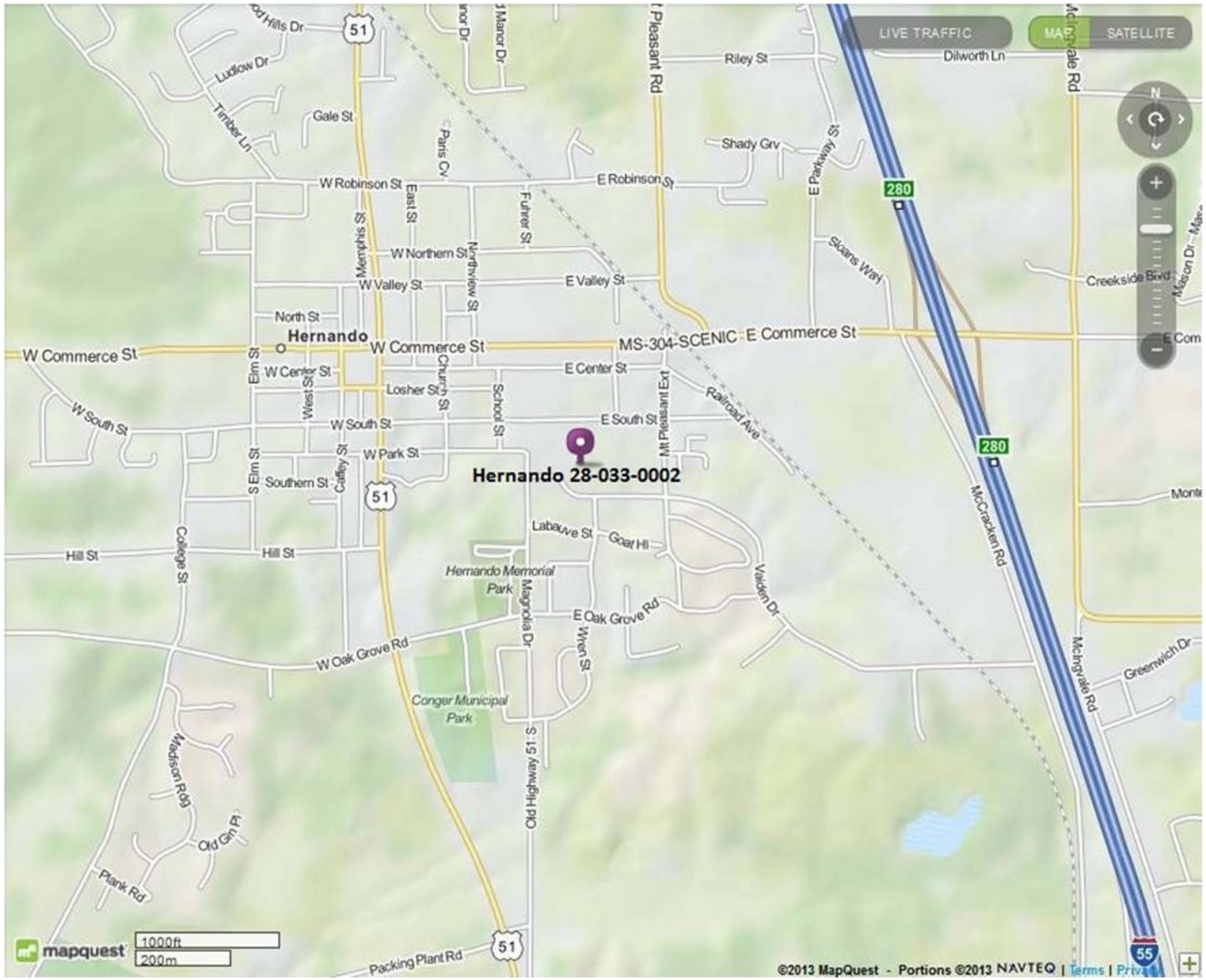
Hernando 28-033-0002

Desoto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W Center St
E Center St
Losher St
W South St
E South St
W Park St
Southern St
Hill St
Labauve St
Goar Hl
Hernando Memorial Park
E Oak Grove Rd
W Oak Grove Rd
Conger Municipal Park
Old Highway 51 S
Packing Plant Rd
Plank Rd
Old Gin Pl
Madison Rd
College St
Elm St
S Elm St
West St
Church St
School St
Mt Pleasant Ext
Railroad Ave
Fuhrer St
Northview St
Memphis St
East St
Paris Cv
Manor Dr
Pleasant Rd
Riley St
Dilworth Ln
Shady Grv
E Parkway St
Sloans Way
Creekside Blvd
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Wren St
Valden Dr
McCracken Rd
Mcingvale Rd
Greenwich Dr
Ludlow Dr
Timber Ln
Gale St
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200m
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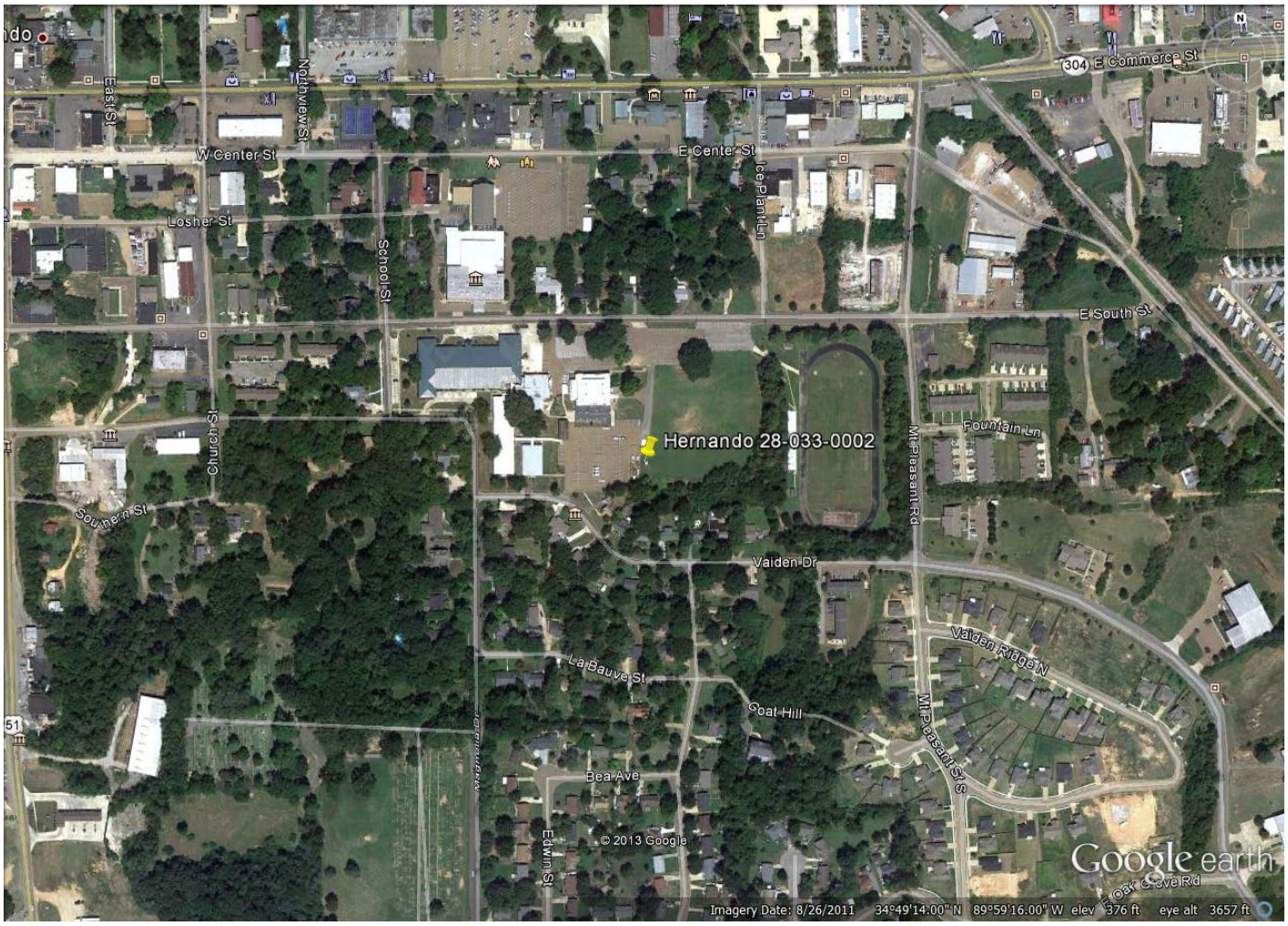
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304
East St
Northview St
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Ice Plant Ln
Losher St
School St
E South St
Church St
Fountain Ln
Mt Pleasant Rd
Southern St
Vaiden Dr
Vaiden Ridge N
La Bauve St
Coat Hill
Mt Pleasant St S
Bea Ave
Edwin St
© 2013 Google
Google earth
Imagery Date: 8/26/2011 34°49'14.00" N 89°59'16.00" W elev 376 ft eye alt 3657 ft

Tupelo - N

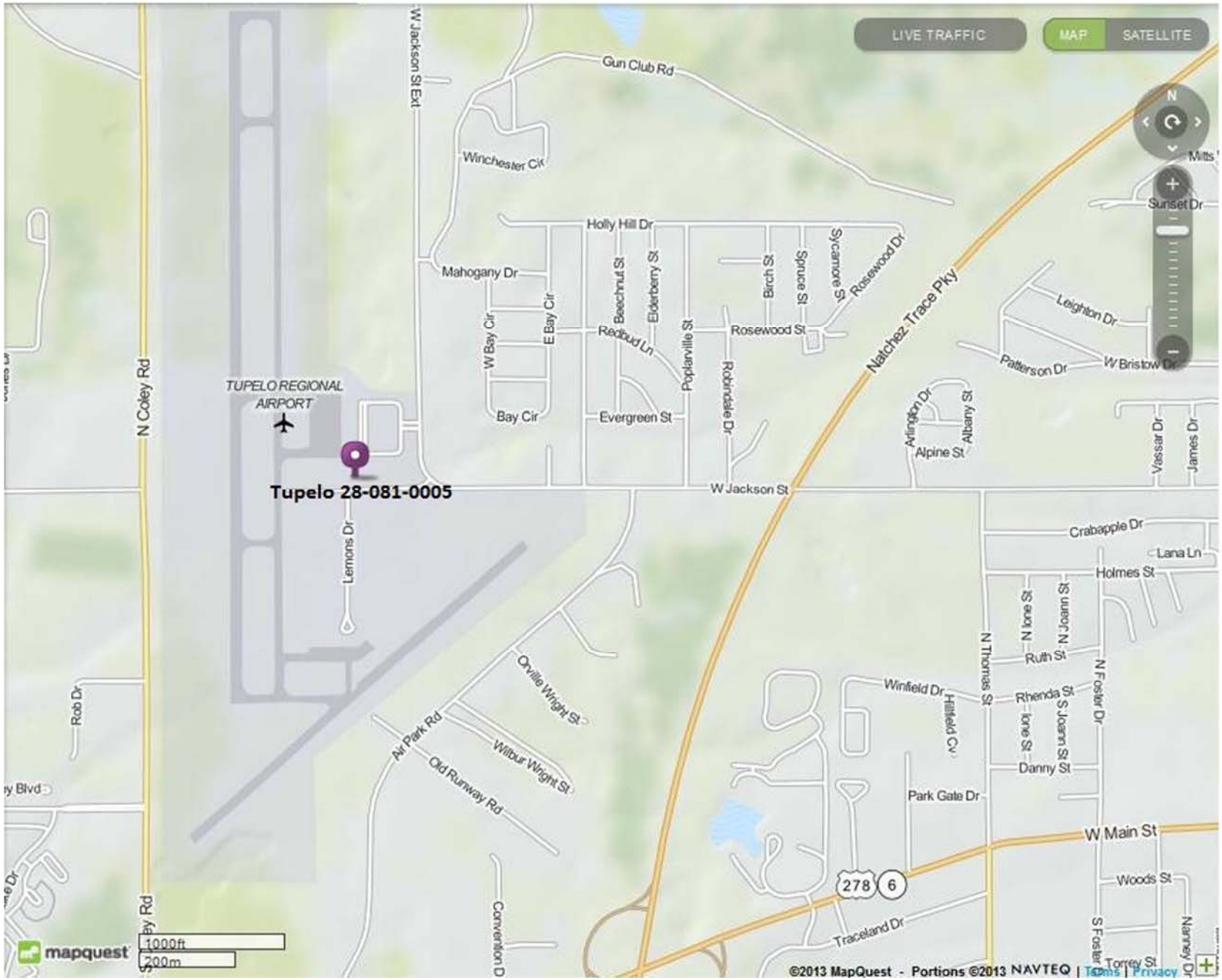
Tupelo - E

Tupelo - S

Tupelo - W

Tupelo 28-081-0005

Lee


LIVE TRAFFIC
MAP
SATELLITE
Gun Club Rd
W Jackson St Ext
Winchester Cir
Holly Hill Dr
Mahogany Dr
W Bay Cir
E Bay Cir
Beechnut St
Redbud Ln
Elderberry St
Poplarville St
Robindale Dr
Birch St
Spruce St
Sycamore St
Rosewood Dr
Rosewood St
Bay Cir
Evergreen St
TUPELO REGIONAL AIRPORT
Tupelo 28-081-0005
N Coley Rd
Lemons Dr
W Jackson St
Natchez Trace Pky
Sunset Dr
Leighton Dr
Patterson Dr
W Bristow Dr
Arlington Dr
Albany St
Alpine St
Vassar Dr
James Dr
Crabapple Dr
Lana Ln
Holmes St
Steven St
N Joann St
Ruth St
N Thomas St
Winfield Dr
Hatfield Cv
Rhenda St
S Joann St
N Foster Dr
Danny St
Park Gate Dr
W Main St
Woods St
278
6
Traceland Dr
S Foster Dr
Torrey St
Rob Dr
Air Park Rd
Old Runway Rd
Orville Wright St
Wilbur Wright St
Convention D
1000ft
200m
mapquest
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Mahogany Dr
W Jackson Street Extended
Sourwood Dr
E Bay Cir
Persimmon Dr
Huckleberry Trail
Bay Cir
Beechnut St
Elderberry St
Redbud Ln
Hickory Dr
Evergreen St
Holly Hill Dr
Tupelo 28-081-0005
W Jackson St
Coley Rd
Lemons Dr
Ag Park Rd
© 2013 Google
Google earth
Imagery Date: 10/28/2012 34°15'56.88" N 88°45'50.19" W elev 342 ft eye alt 5372 ft

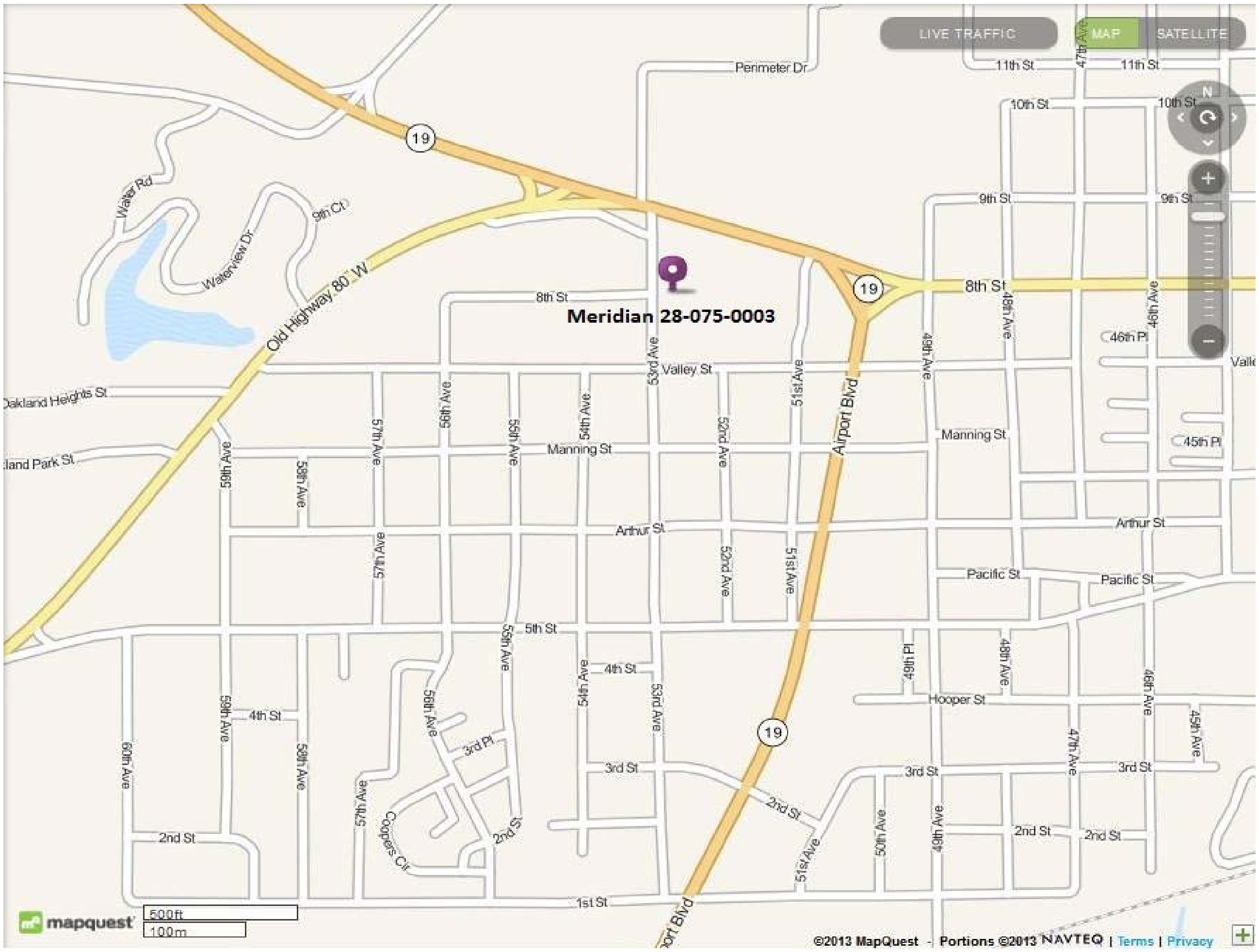
E

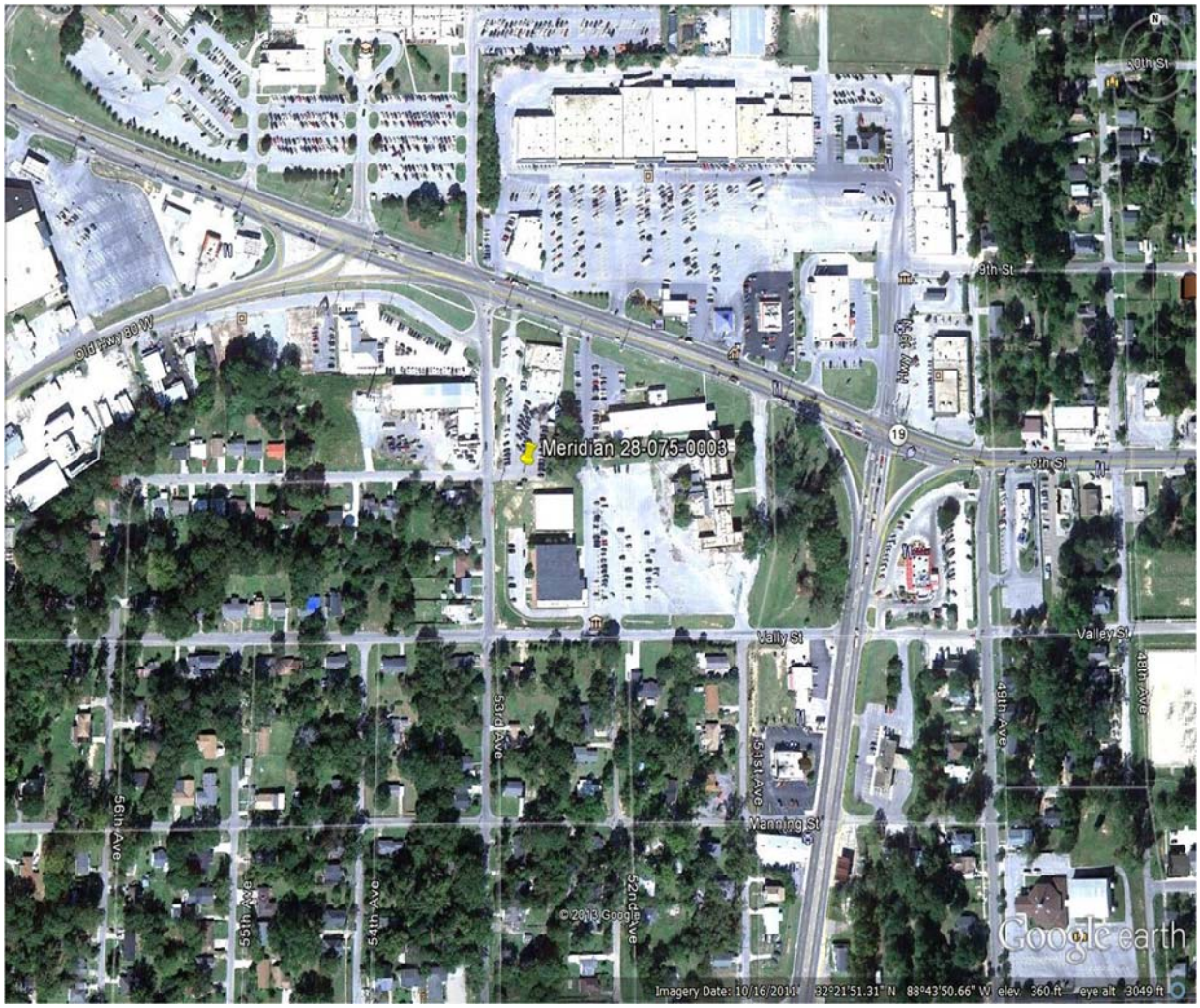
Meridian - N

Meridian -
Meridian - S

Meridian - W

Meridian 28-075-0003


LIVE TRAFFIC
MAP
SATELLITE
Perimeter Dr
11th St
10th St
9th St
8th St
19
Water Rd
9th Ct
Waterview Dr
Old Highway 80 W
Meridian 28-075-0003
Valley St
Oakland Heights St
Manning St
Arthur St
Pacific St
5th St
4th St
Hooper St
3rd Pl
3rd St
2nd St
1st St
Airport Blvd
Coopers Cir
60th Ave
59th Ave
58th Ave
57th Ave
56th Ave
55th Ave
54th Ave
53rd Ave
52nd Ave
51st Ave
50th Ave
49th Ave
49th Pl
48th Ave
47th Ave
46th Ave
46th Pl
45th Pl
45th Ave
500ft
100m
mapquest
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Meridian 28-075-0003
Old Hwy 80 W
8th St
Valley St
53rd Ave
51st Ave
49th Ave
48th Ave
56th Ave
55th Ave
54th Ave
52nd Ave
Manning St
© 2012 Google
Google earth
Imagery Date: 10/16/2011 32°21'51.31" N 88°43'50.66" W elev 360 ft eye alt 3049 ft

Jackson NCore - N

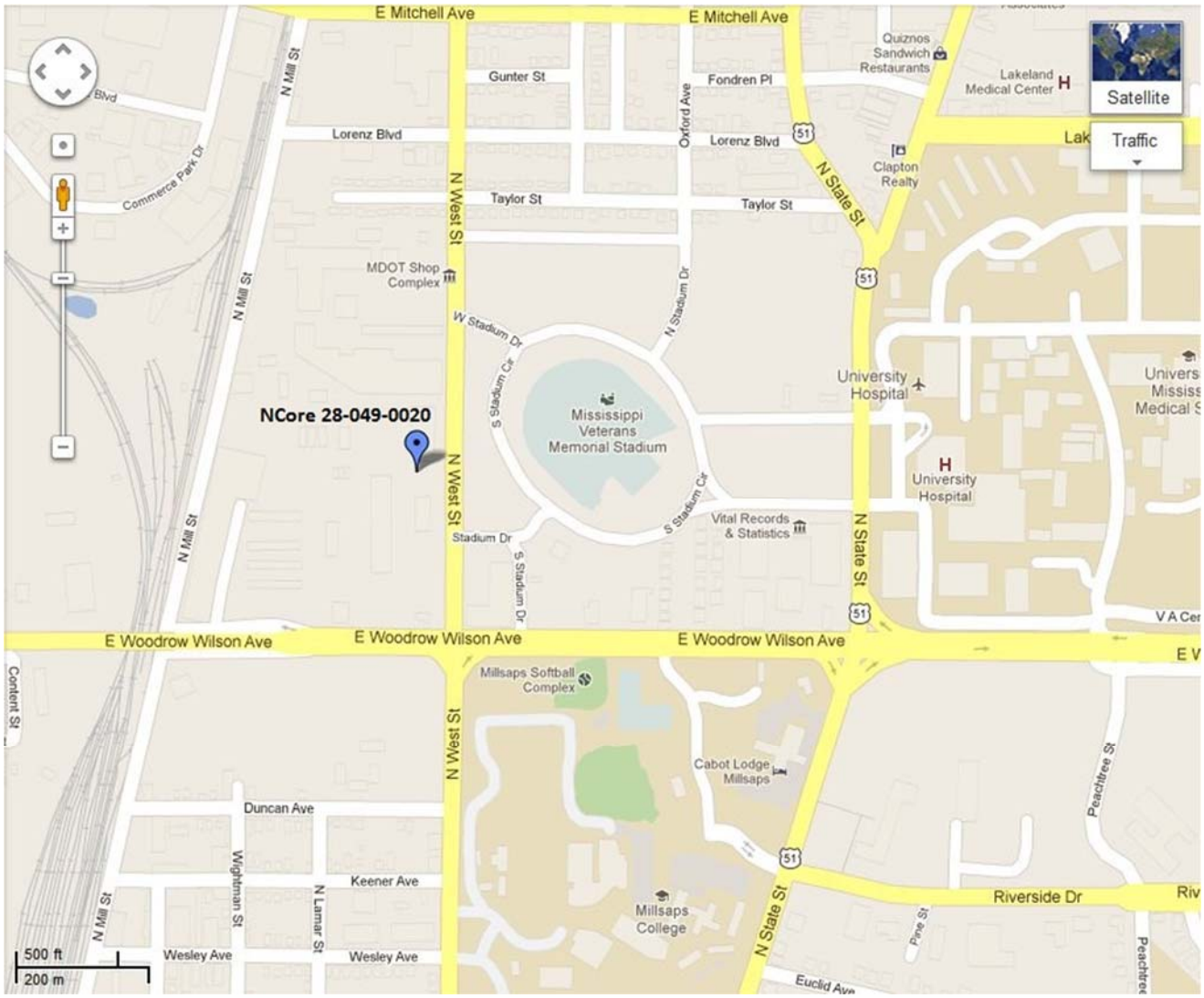
Jackson NCore – E

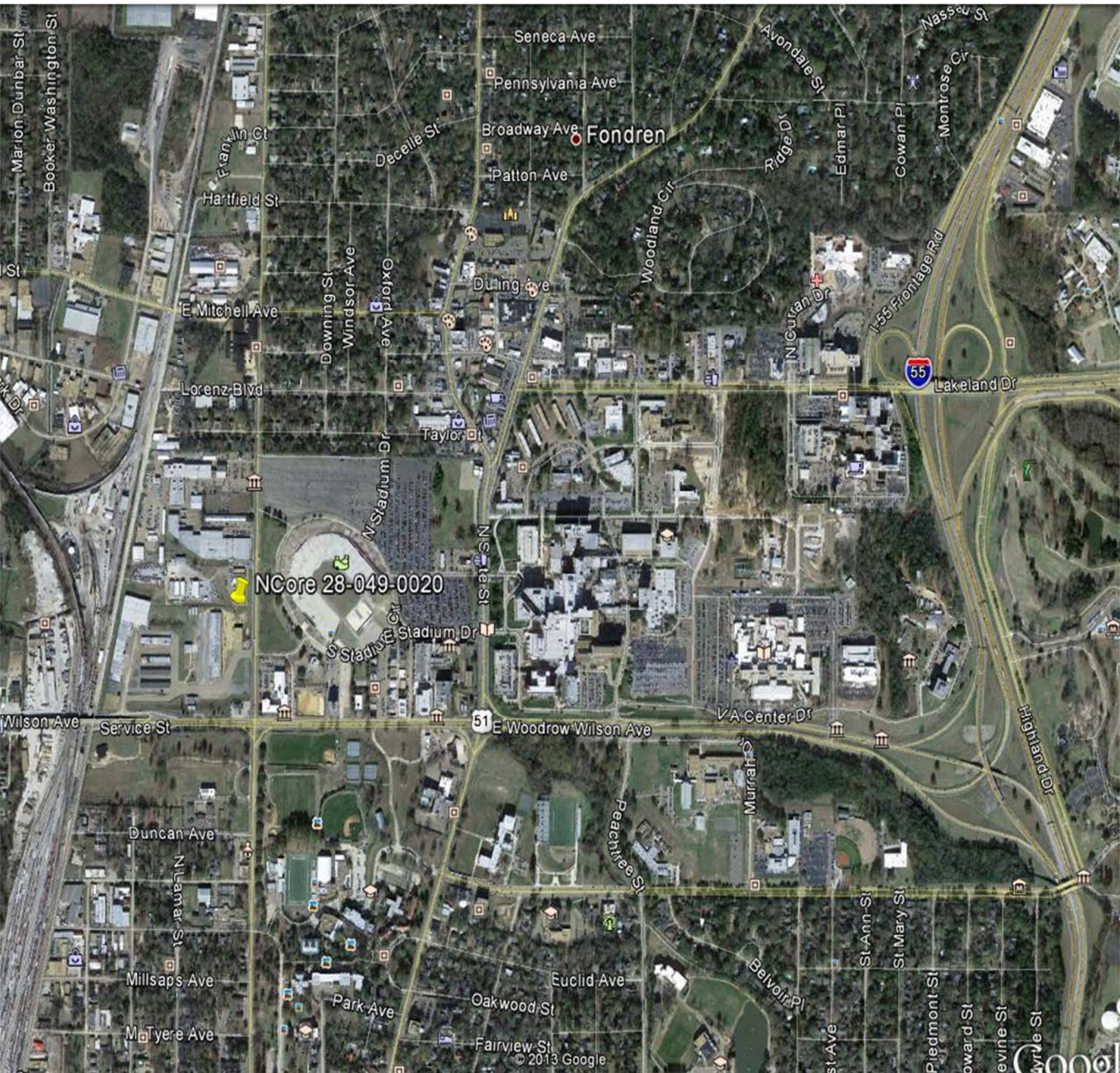
Jackson NCore – S

Jackson NCore – W

Jackson NCore 28-049-0020

Hinds


E Mitchell Ave
E Mitchell Ave
Gunter St
Fondren Pl
Quiznos Sandwich Restaurants
Lakeland Medical Center
Satellite
Traffic
Lorenz Blvd
Lorenz Blvd
Oxford Ave
N State St
Clapton Realty
Taylor St
Taylor St
N West St
N Mill St
MDOT Shop Complex
W Stadium Dr
N Stadium Dr
S Stadium Cir
NCore 28-049-0020
Mississippi Veterans Memorial Stadium
University Hospital
University Hospital
Vital Records & Statistics
Stadium Dr
S Stadium Dr
S Stadium Cir
N State St
E Woodrow Wilson Ave
E Woodrow Wilson Ave
E Woodrow Wilson Ave
Millsaps Softball Complex
N West St
Cabot Lodge Millsaps
Peachtree St
Duncan Ave
Wightman St
Keener Ave
N Lamar St
N Mill St
Riverside Dr
Millsaps College
N State St
Pine St
Wesley Ave
Wesley Ave
Euclid Ave
500 ft
200 m


NCore 28-049-0020
Fondren
Seneca Ave
Pennsylvania Ave
Broadway Ave
Patton Ave
Hartfield St
Decelle St
Franklin Ct
Marion Dunbar St
Booker Washington St
Avondale St
Nassau St
Montrose Cir
Edmar Pl
Cowan Pl
Ridge Dr
Woodland Cir
I-55 Frontage Rd
N Curtan Dr
Oxford Ave
Windsor Ave
Downing St
E Mitchell Ave
Dunning Ave
Lorenz Blvd
Lakeland Dr
55
Taylor
N Stadium Dr
N State St
S Stadium Dr
S Stadium Cir
E Woodrow Wilson Ave
51
Wilson Ave
Service St
VA Center Dr
Murrah Dr
Highland Dr
Peachtree St
Duncan Ave
N Lamar St
Millsaps Ave
Park Ave
Euclid Ave
Oakwood St
Fairview St
Belvoir Pl
St Ann St
St Mary St
Piedmont St
Howard St
Levine St
Myrtle St
M Tyere Ave
© 2013 Google

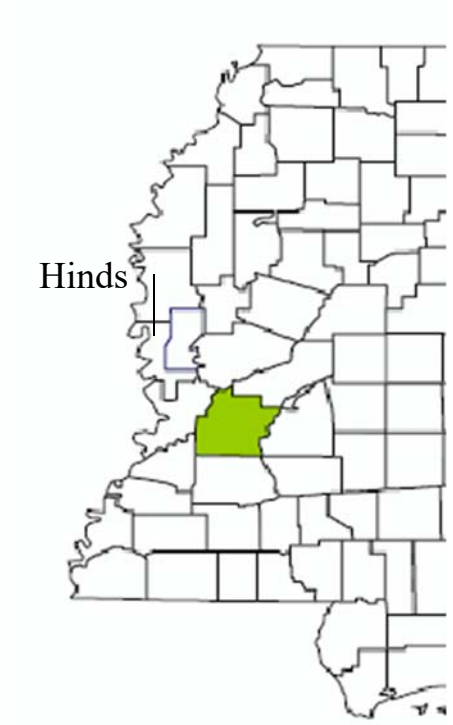
Hinds CC - N

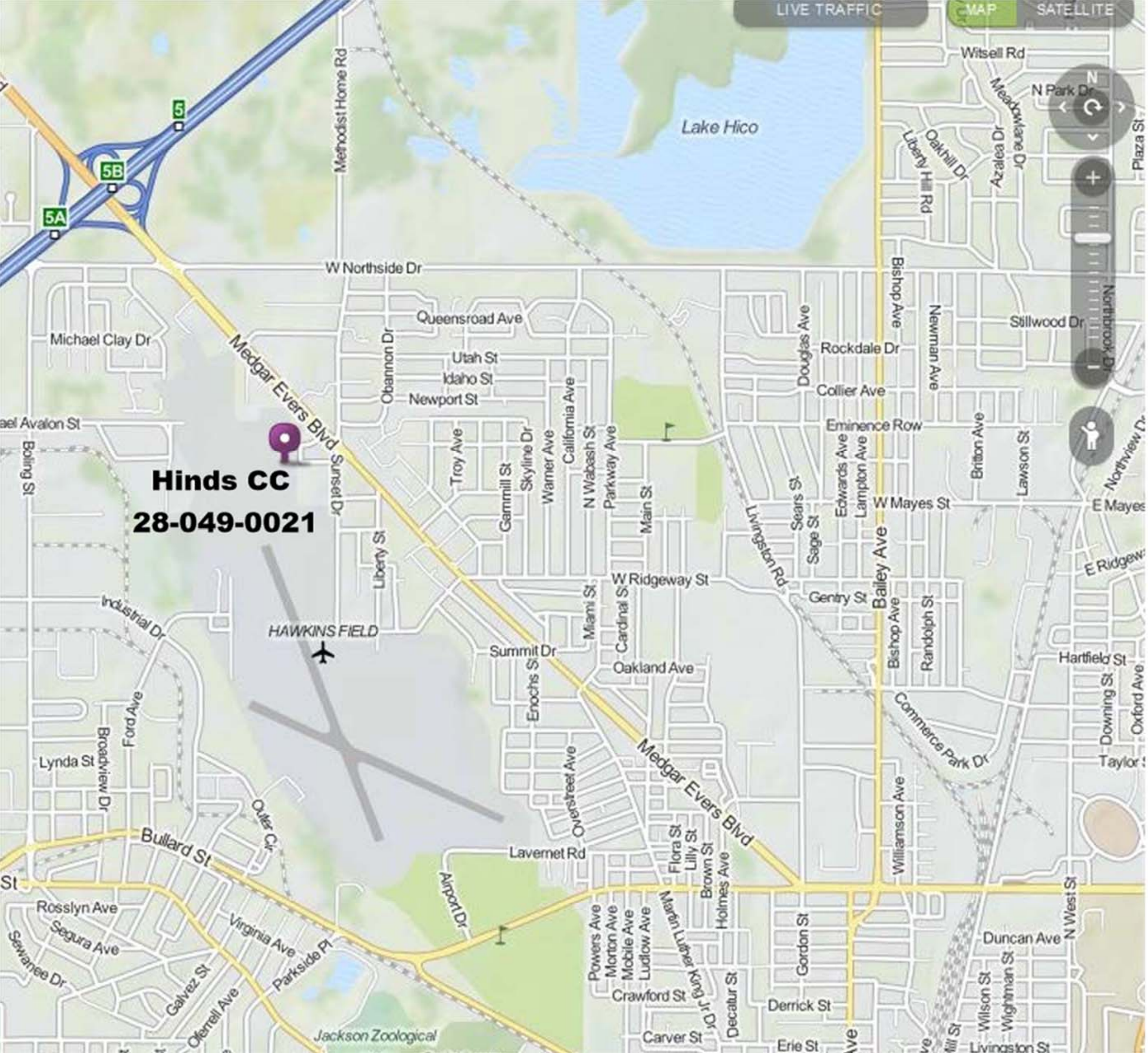
Hinds CC - E

Hinds CC - S

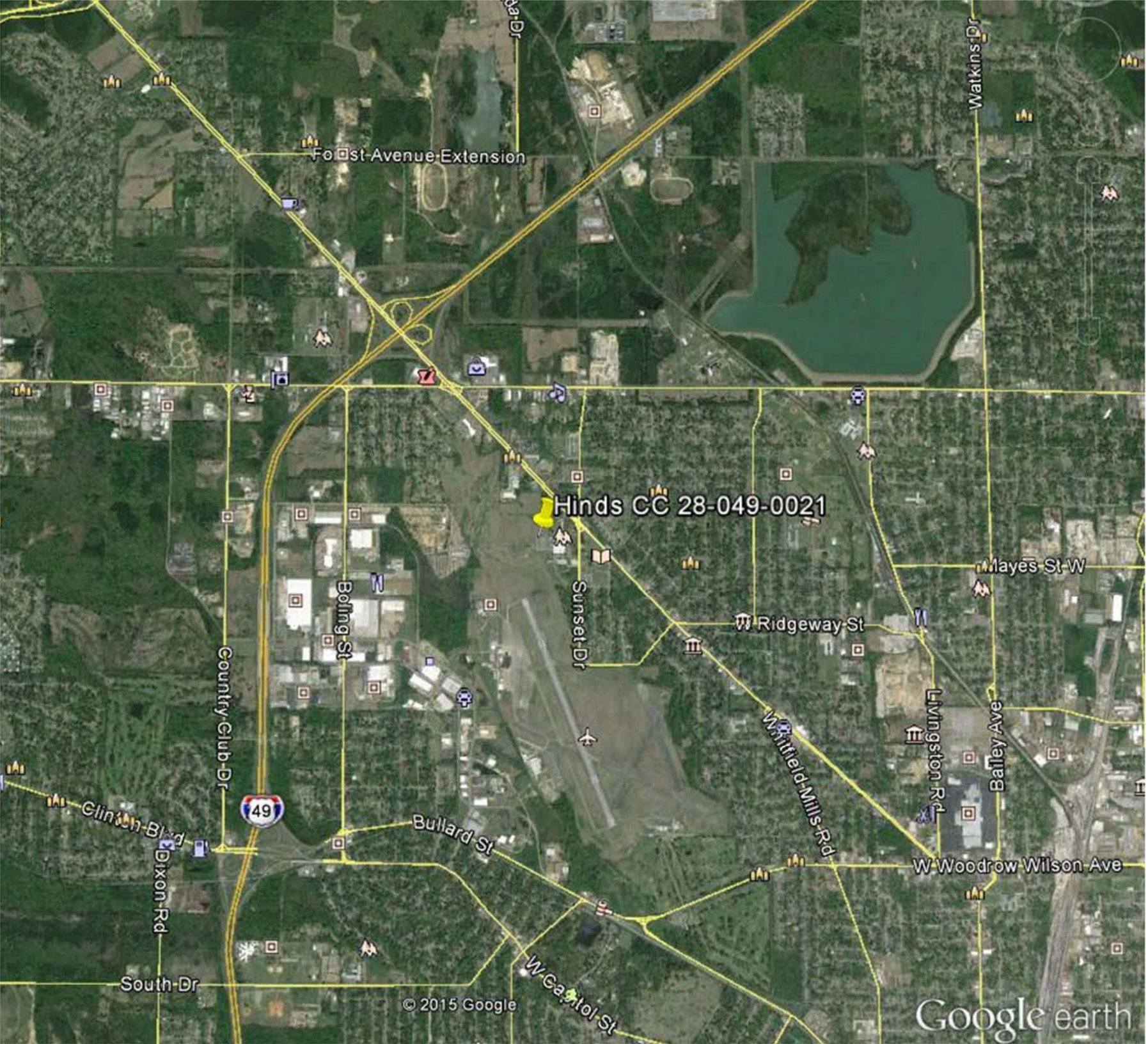
Hinds CC - W

Hinds CC 28-049-0021





Hinds CC
28-049-0021
LIVE TRAFFIC
MAP
SATELLITE
Lake Hico
HAWKINS FIELD
Jackson Zoological
W Northside Dr
Medgar Evers Blvd
Methodist Home Rd
Queensroad Ave
Michael Clay Dr
Utah St
Idaho St
Newport St
Obannon Dr
Sunset Dr
Liberty St
Troy Ave
Gammill St
Skyline Dr
Warner Ave
California Ave
N Wabash St
Parkway Ave
Main St
Livingston Rd
Douglas Ave
Rockdale Dr
Collier Ave
Eminence Row
Sears St
Sage St
Edwards Ave
Lampton Ave
Bishop Ave
Newman Ave
W Mayes St
E Mayes St
Bailey Ave
Britton Ave
Lawson St
Stillwood Dr
Northbrook Dr
Northview Dr
Witsell Rd
N Park Dr
Meadowlane Dr
Azalea Dr
Oakhill Dr
Liberty Hill Rd
Plaza St
Boling St
Industrial Dr
W Ridgeway St
E Ridgeway
Gentry St
Randolph St
Miami St
Cardinal St
Summit Dr
Oakland Ave
Enochs St
Commerce Park Dr
Hartfield St
Downing St
Oxford Ave
Taylor St
Ford Ave
Broadview Dr
Lynda St
Outer Cir
Bullard St
Overstreet Ave
Lavernet Rd
Airport Dr
Flora St
Lilly St
Brown St
Holmes Ave
Williamson Ave
N West St
Duncan Ave
Rosslyn Ave
Segura Ave
Sewanee Dr
Virginia Ave
Parkside Pl
Galvez St
Oferrell Ave
Powers Ave
Morton Ave
Mobile Ave
Ludlow Ave
Martin Luther King Jr Dr
Decatur St
Gordon St
Crawford St
Derrick St
Carver St
Erie St
Wilson St
Wightman St
Livingston St
Mill St
5
5A
5B


Forest Avenue Extension
Watkins Dr
Hinds CC 28-049-0021
Mayes St W
Ridgeway St
Sunset Dr
Boling St
Country Club Dr
Livingston Rd
Bailey Ave
Whitfield Mills Rd
Clinton Blvd
Dixon Rd
Bullard St
W Woodrow Wilson Ave
South Dr
W Capitol St
49
© 2015 Google
Google earth

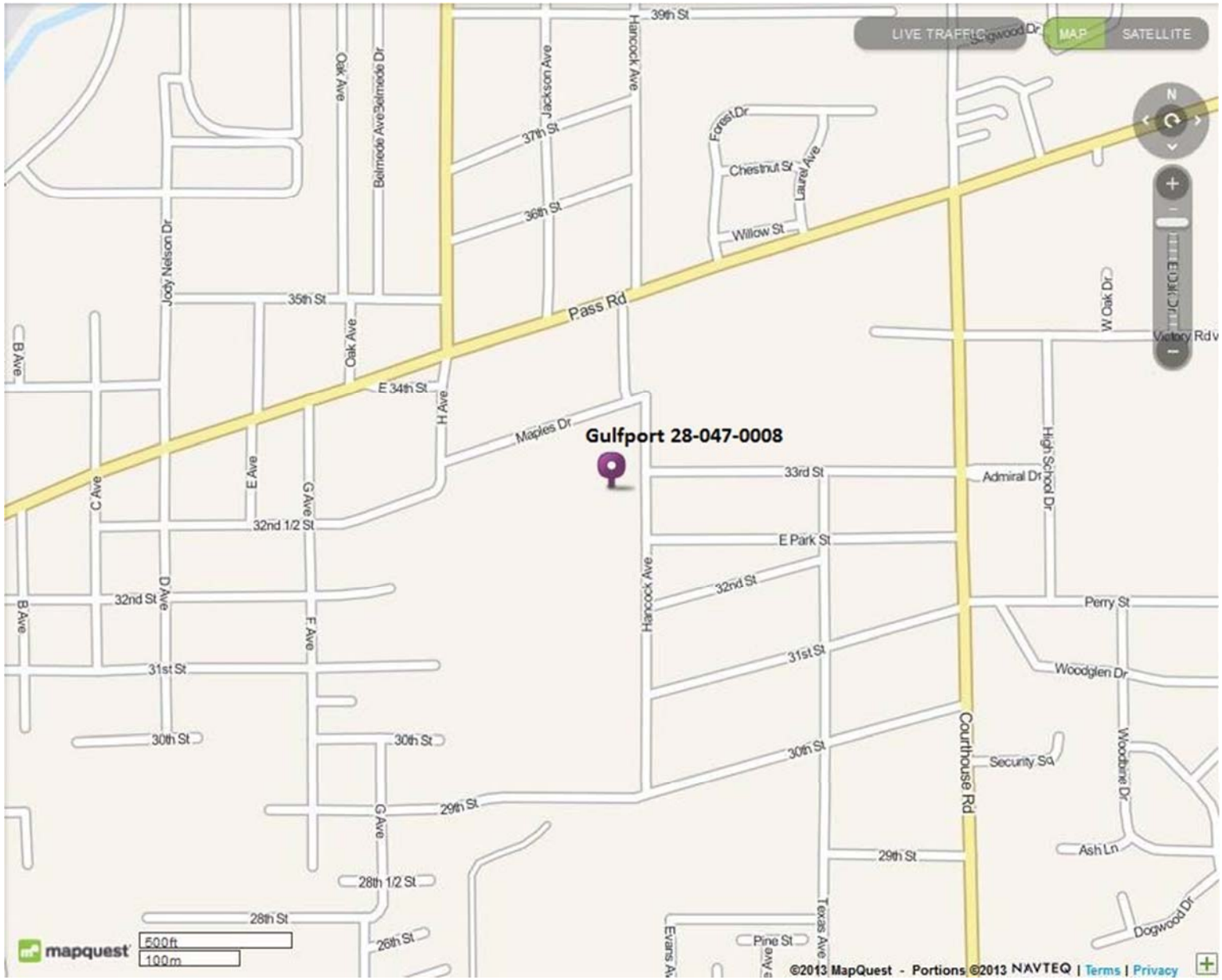
Gulfport - N

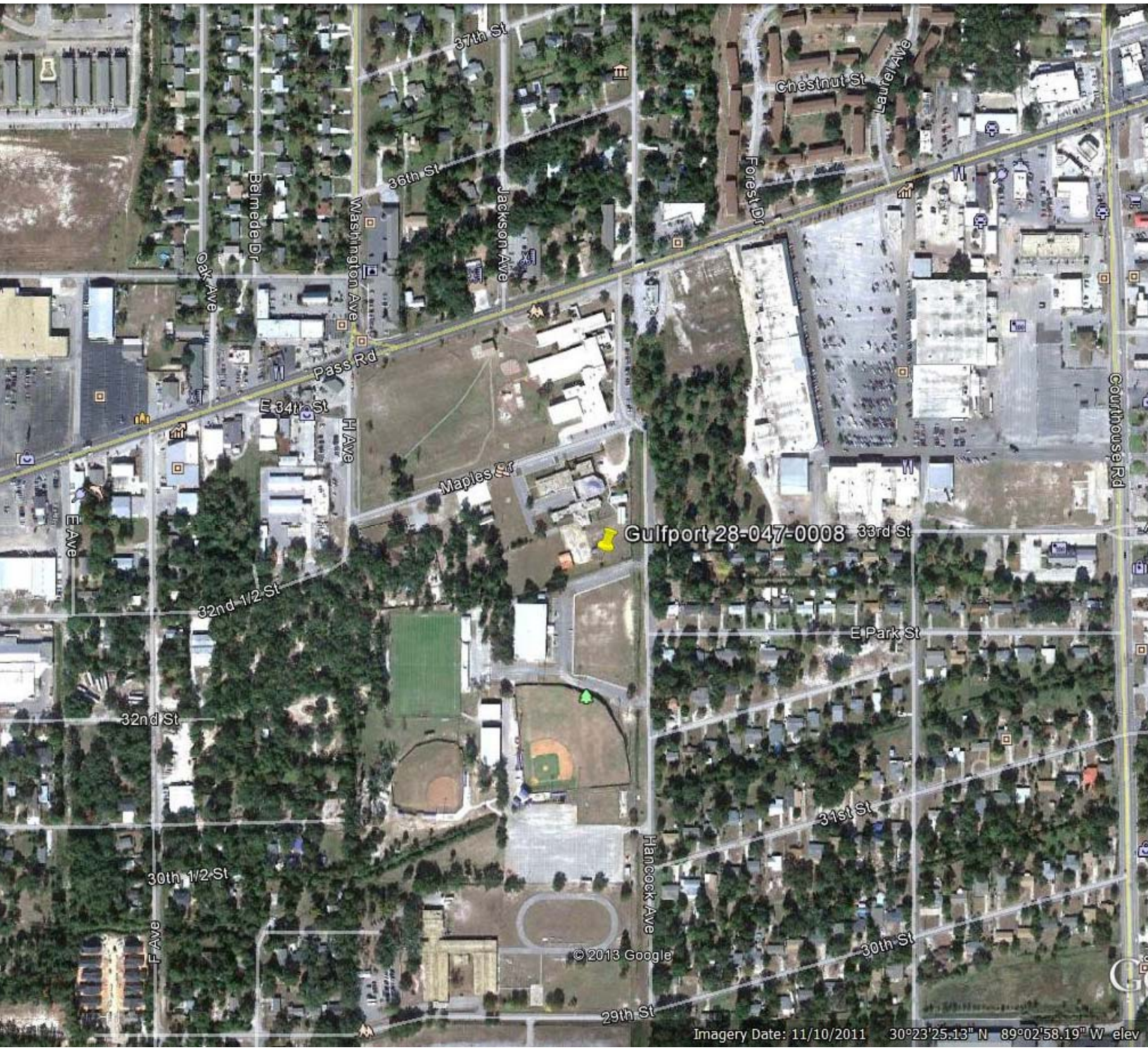
Gulfport - E

Gulfport - S

Gulfport - W

Gulfport 28-047-0008


Gulfport 28-047-0008
Pass Rd
39th St
37th St
36th St
35th St
E 34th St
33rd St
32nd 1/2 St
32nd St
31st St
30th St
29th St
28th 1/2 St
28th St
Maples Dr
E Park St
Perry St
Willow St
Chestnut St
Forest Dr
Laurel Ave
Oak Ave
Belmode Ave
Jackson Ave
Hancock Ave
Jody Nelson Dr
B Ave
C Ave
D Ave
E Ave
F Ave
G Ave
H Ave
Admiral Dr
High School Dr
Courthouse Rd
Woodglen Dr
Woodbine Dr
Ash Ln
Dogwood Dr
Security Sq
Pine St
Texas Ave
Victory Rd
W Oak Dr
LIVE TRAFFIC
MAP
SATELLITE
mapquest
500ft
100m
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


37th St
Chestnut St
Laurel Ave
Forest Dr
36th St
Belmede Dr
Jackson Ave
Washington Ave
Oak Ave
Pass Rd
E 34th St
H Ave
Courthouse Rd
Maples St
Gulfport 28-047-0008
33rd St
E Ave
32nd 1/2 St
E Park St
32nd St
31st St
30th 1/2 St
Hancock Ave
F Ave
30th St
29th St
© 2013 Google
Imagery Date: 11/10/2011 30°23'25.13" N 89°02'58.19" W elev

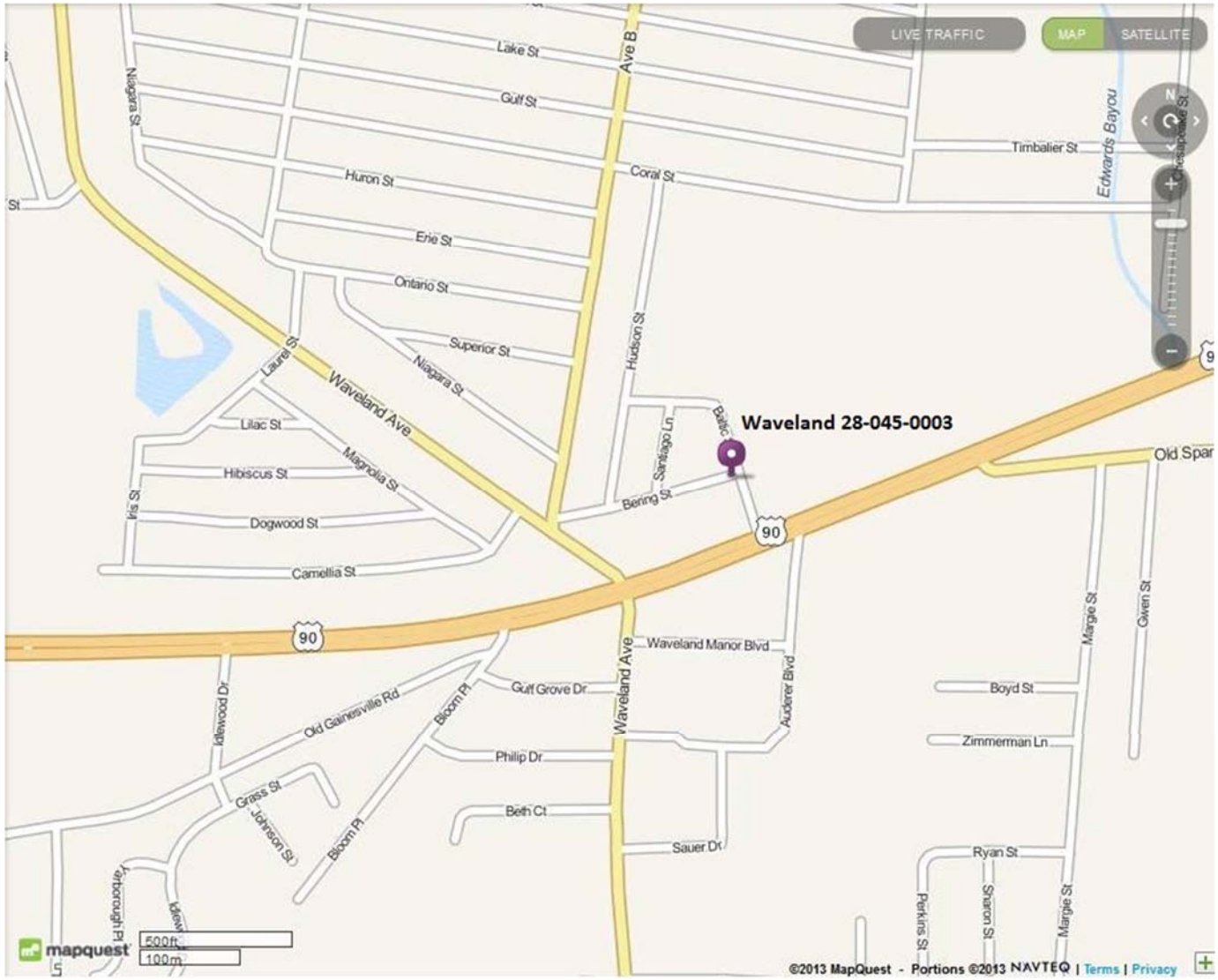
Waveland - N

Waveland - E

Waveland - S

Waveland - W

Waveland 28-045-0003


LIVE TRAFFIC
MAP
SATELLITE
Waveland 28-045-0003
Lake St
Gulf St
Huron St
Erie St
Ontario St
Superior St
Niagara St
Coral St
Timbalier St
Edwards Bayou
Ave B
Hudson St
Laurel St
Waveland Ave
Lilac St
Hibiscus St
Magnolia St
Iris St
Dogwood St
Camellia St
Bering St
Santiago Ln
Baltic
Old Spar
90
Waveland Manor Blvd
Gulf Grove Dr
Bloom Pl
Auderer Blvd
Boyd St
Zimmerman Ln
Margie St
Gwen St
Old Gainesville Rd
Idlewood Dr
Philip Dr
Grass St
Johnson St
Beth Ct
Sauer Dr
Ryan St
Perkins St
Sharon St
Arborough Pl
500ft
100m
mapquest
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Huron St
Coral St
Erie St
Ontario St
Niagara St
Superior St
B Ave
Hudson St
Baltic St
Santiago Ln
Waveland 28-045-0003
Magnolia St
Bering St
Ave B
Waveland Kiln Rd
Camellia St
Old Gainsville Rd
Lower Bay Rd
Wilcox Blvd
Auderer Blvd
East
Zimmerman St
Philip Dr
Waveland Ave
Beth Ct
Sauer Dr
Monroe St
Ryan St
Perkins St
Sharon St
© 2013 Google
Imagery Date: 10/29/2012
30°18'00.19" N 89°23'48.53" W elev

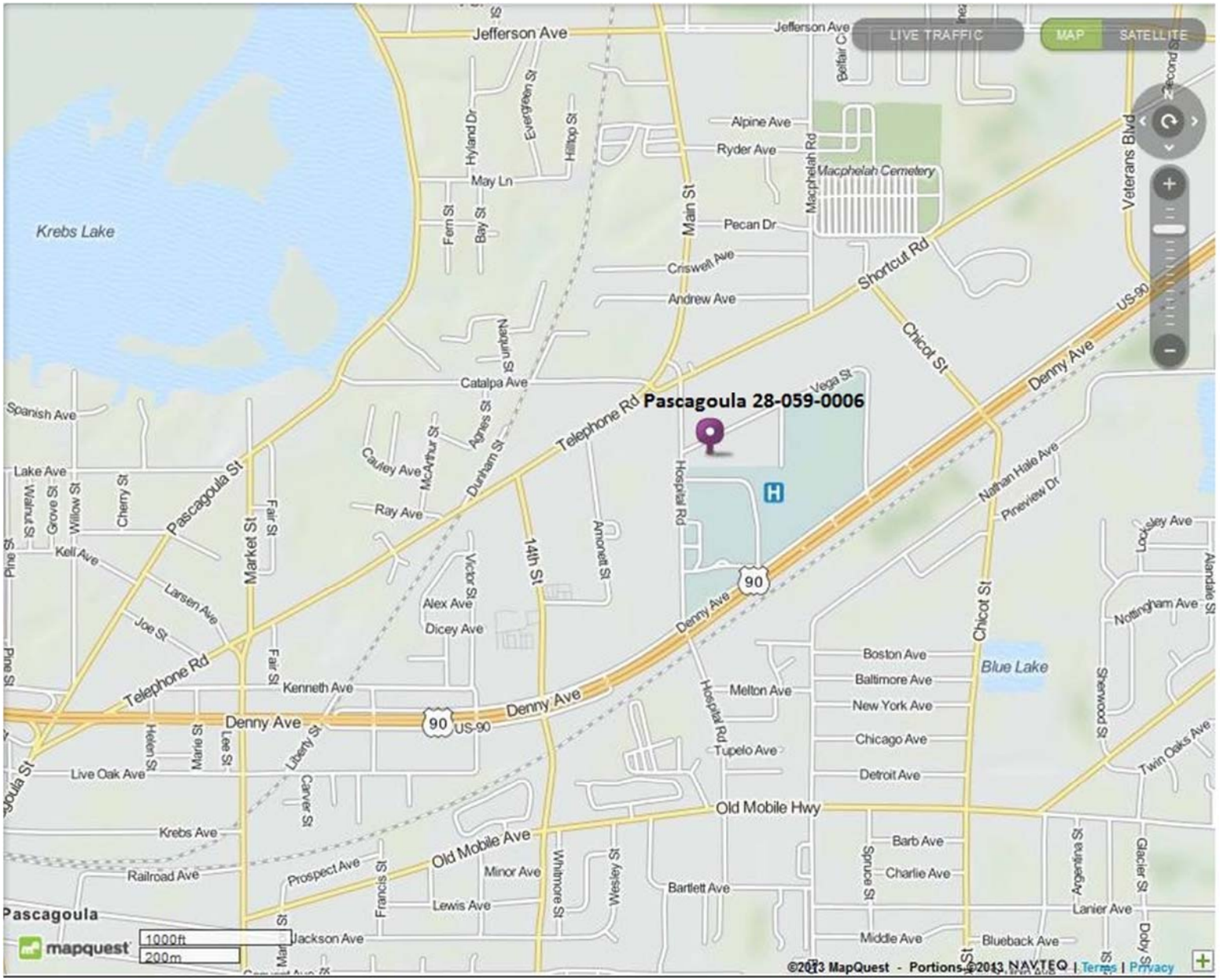
Pascagoula - N

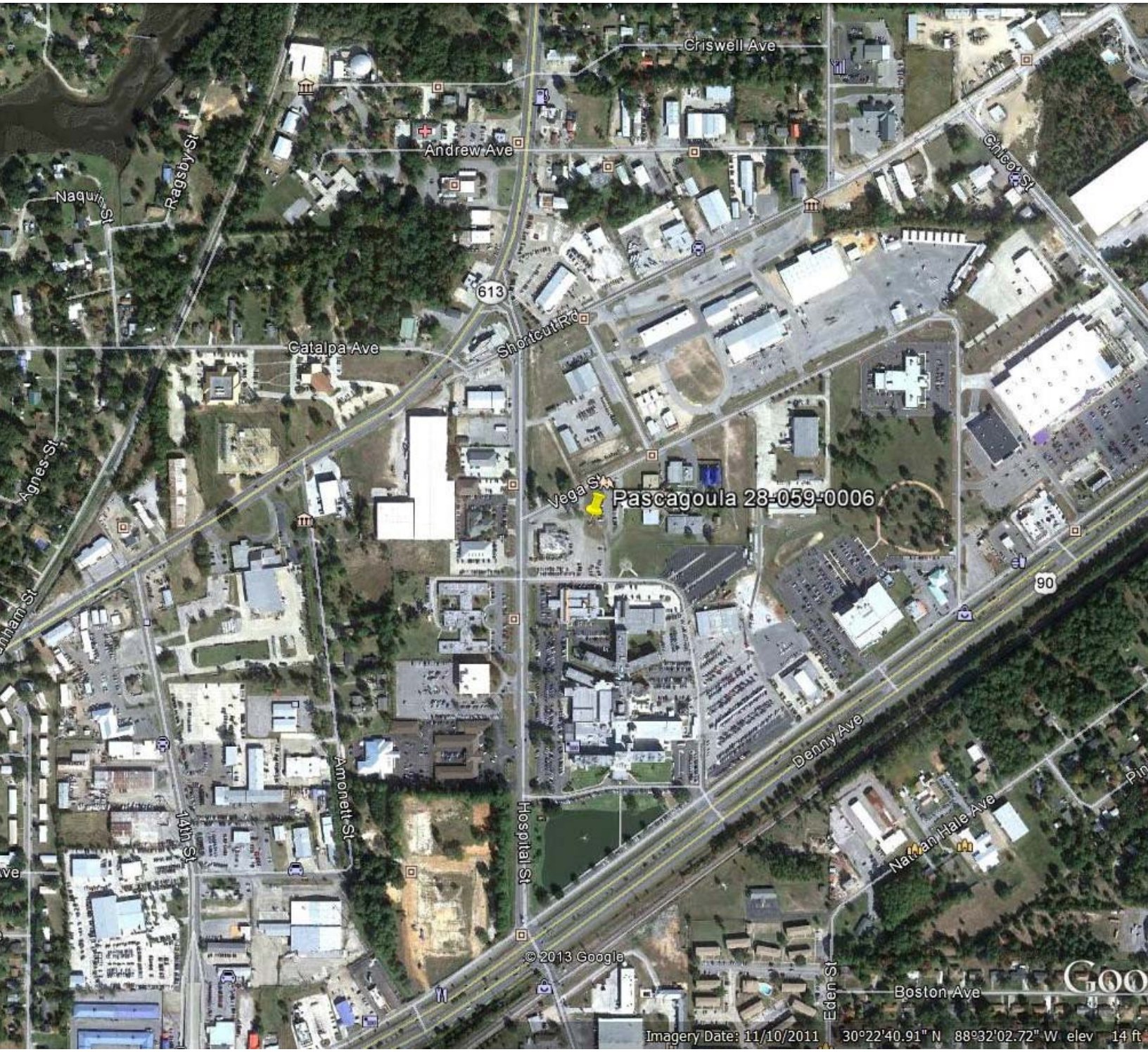
Pascagoula - E

Pascagoula - S

Pascagoula - W

Pascagoula 28-059-0006


Pascagoula 28-059-0006
Jefferson Ave
LIVE TRAFFIC
MAP
SATELLITE
Krebs Lake
Alpine Ave
Ryder Ave
Macphelah Cemetery
Macphelah Rd
Veterans Blvd
Hyland Dr
Evergreen St
Hilltop St
May Ln
Fern St
Bay St
Main St
Pecan Dr
Criswell Ave
Andrew Ave
Shortcut Rd
US-90
Chicot St
Denny Ave
Catalpa Ave
Vega St
Nelson St
Agnes St
Durham St
McArthur St
Cautley Ave
Telephone Rd
Spanish Ave
Lake Ave
Cherry St
Grove St
Willow St
Walnut St
Pine St
Pascagoula St
Kell Ave
Larsen Ave
Joe St
Market St
Fair St
Ray Ave
Victor St
Alex Ave
Dicey Ave
14th St
Amorett St
Hospital Rd
Nathan Hale Ave
Pineview Dr
Lockley Ave
Alandale St
Nottingham Ave
Kenneth Ave
Helen St
Marie St
Lee St
Liberty St
Carver St
Live Oak Ave
Krebs Ave
Railroad Ave
Prospect Ave
Old Mobile Ave
Old Mobile Hwy
Francis St
Minor Ave
Lewis Ave
Whitmore St
Wesley St
Bartlett Ave
Boston Ave
Baltimore Ave
New York Ave
Chicago Ave
Detroit Ave
Melton Ave
Tupelo Ave
Blue Lake
Sherwood St
Twin Oaks Ave
Barb Ave
Charlie Ave
Spruce St
Lanier Ave
Middle Ave
Blueback Ave
Glacier St
Doby St
Jackson Ave
Pascagoula
mapquest
1000ft
200m
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Criswell Ave
Andrew Ave
Naquin St
Ragsby St
Chicot St
613
Shortcut Rd
Catalpa Ave
Agnes St
Vega St
Pascagoula 28-059-0006
90
Denny Ave
Amonett St
14th St
Hospital St
Nathan Hale Ave
Eden St
Boston Ave
© 2013 Google
Imagery Date: 11/10/2011 30°22'40.91" N 88°32'02.72" W elev 14 ft

Hattiesburg – N

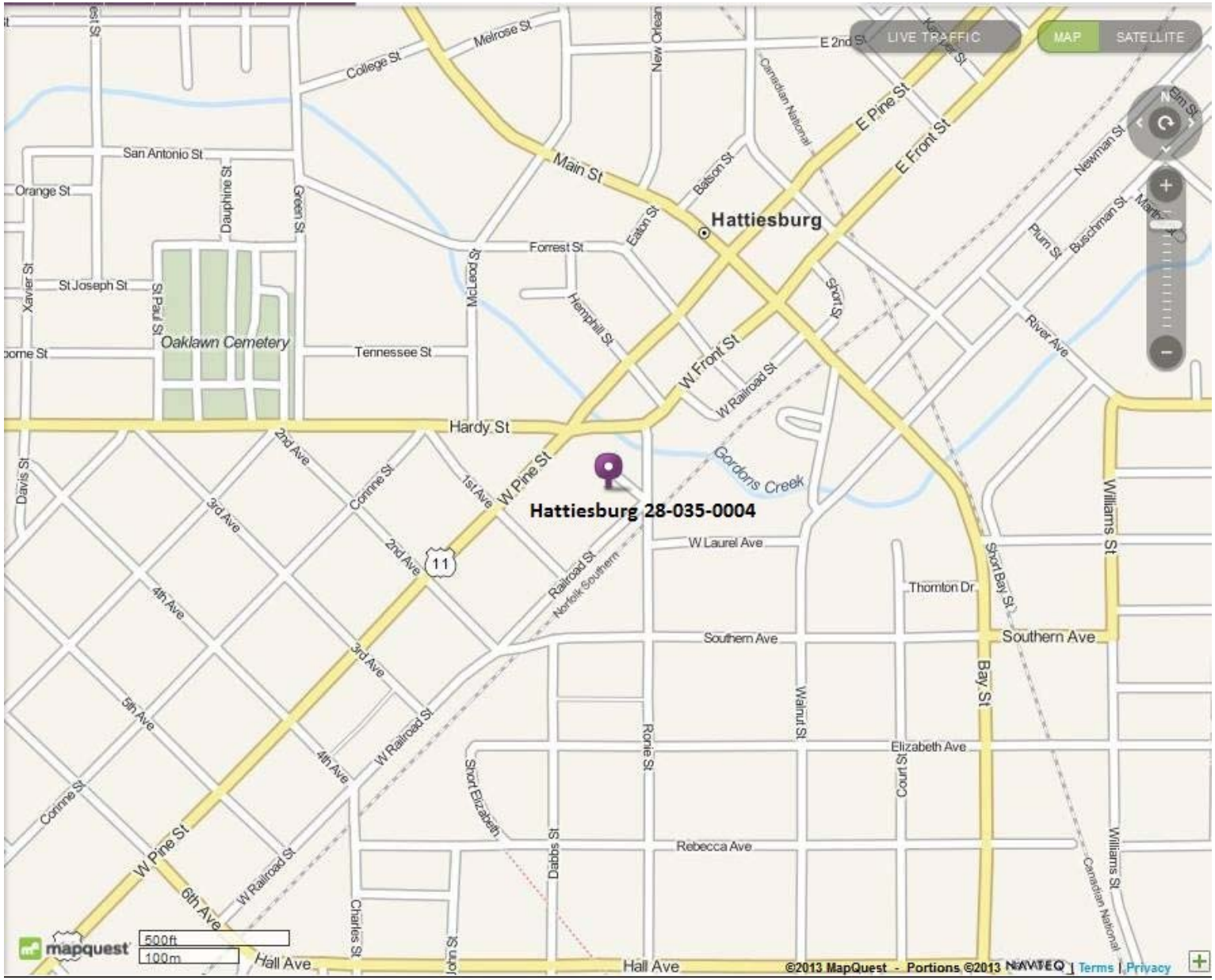
Hattiesburg – E

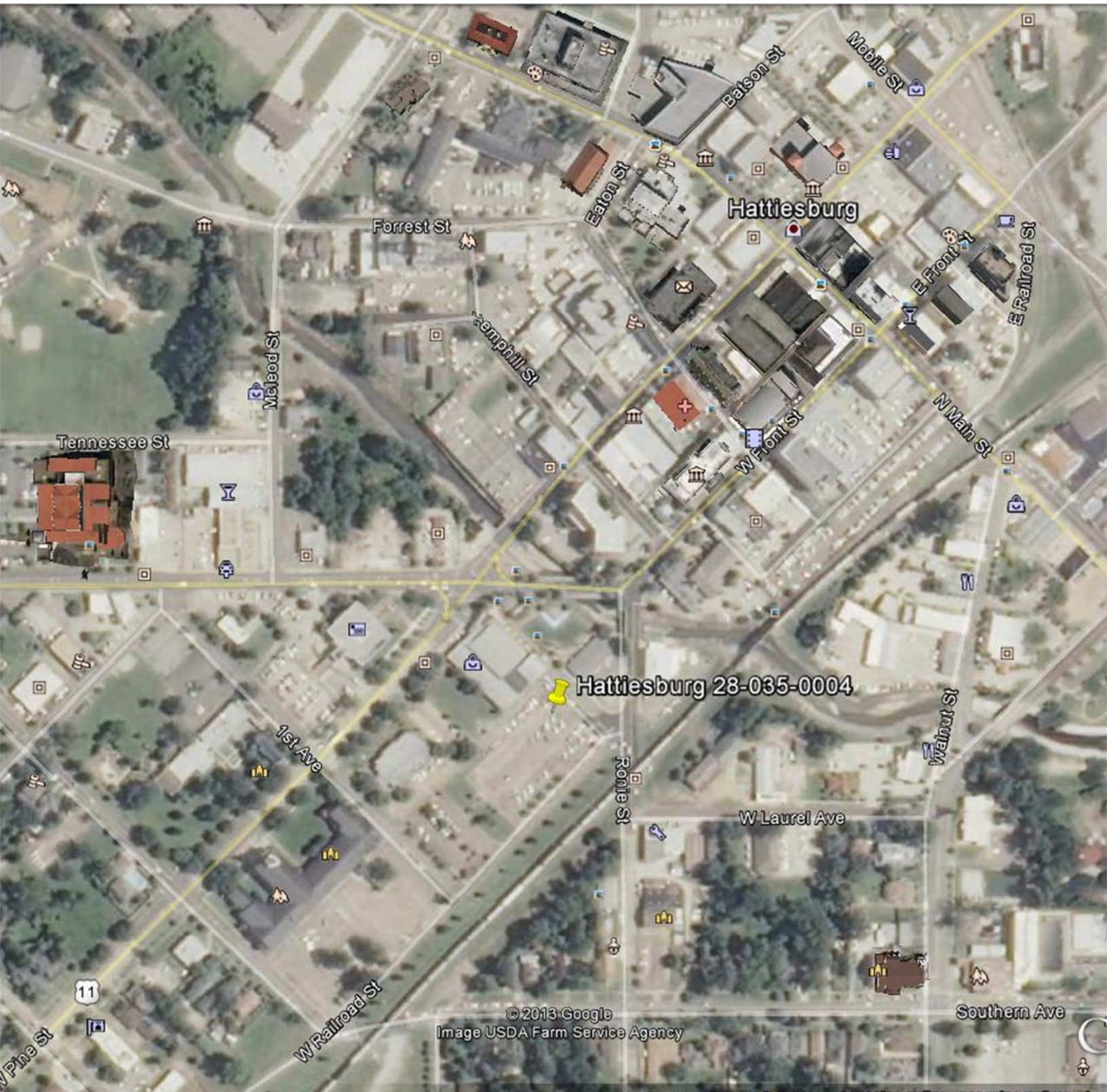
Hattiesburg - S

Hattiesburg – W

Hattiesburg 28-035-0004

Forrest


LIVE TRAFFIC
MAP
SATELLITE
Hattiesburg
Hattiesburg 28-035-0004
Oaklawn Cemetery
Gordons Creek
College St
Melrose St
San Antonio St
Orange St
St Joseph St
Tennessee St
Forrest St
Main St
E Pine St
E Front St
W Front St
W Railroad St
Hardy St
W Pine St
W Laurel Ave
Southern Ave
Thornton Dr
Elizabeth Ave
Rebecca Ave
Hall Ave
6th Ave
5th Ave
4th Ave
3rd Ave
2nd Ave
1st Ave
Bay St
Short Bay St
Williams St
River Ave
Newman St
Buschman St
Plum St
Short St
Eaton St
Batson St
Hemphill St
McLeod St
Green St
Dauphine St
St Paul St
Xavier St
Davis St
Conine St
Walnut St
Ronie St
Court St
Short Elizabeth
Dabbs St
Charles St
Railroad St
Norfolk Southern
Canadian National
New Orleans
11
500ft
100m
mapquest
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Batson St
Mobile St
Eaton St
Hattiesburg
Forrest St
E Front St
E Railroad St
Memphill St
McLeod St
N Main St
W Front St
Tennessee St
Hattiesburg 28-035-0004
1st Ave
Ronie St
Walnut St
W Laurel Ave
11
W Railroad St
Southern Ave
© 2013 Google
Image USDA Farm Service Agency

Appendix III

Regional Monitoring Agreement

Regional Monitoring Agreement

SHELBY COUNTY HEALTH DEPARTMENT

MARK H. LUTTRELL, JR.
MAYOR

ALISA R. HAUSHALTER, DNP, RN, PHNA-BC
DIRECTOR

HELEN MORROW, MD, MPA
HEALTH OFFICER

Public Health
Prevent. Promote. Protect.

April 3rd, 2018

Mr. Robert Brawner, Environmental Fellow
Tennessee Department of Environment and Conservation
Air Pollution Control Division
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Ave., 15th Floor
Nashville, TN 37243-1531

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., 15th Floor
Nashville, TN 37243-1531

Mr. Chad LaFontaine, 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. A copy of this agreement will be included in Shelby County's current year's annual 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

Robert Rogers, P.E. / Technical Manager
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 **SCHD**	3 (includes 1 at the Near Road Station)	1	1	1
Crittenden County , AR **ADEQ**	1	1		
DeSoto County, MS **MDEQ**	1	1		1

Criteria Air Pollutant MSA monitoring network include:

County	PM_{10}	O_3	$NO_y/NO/NO_2$	CO	SO_2
Shelby County, TN **SCHD**	2 (includes low volume PM_{10} at NCore)	3	1 (includes 1 at the Near Road Station)	2 (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.

Appendix IV

Equipment List

MDEQ 2018 EQUIPMENT LIST

Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
		OZONE				
89588	OZONE	API	400E	160	Poor	06/01/03
89589	OZONE	API	400E	159	Poor	06/01/03
90740	OZONE	API	400E	1098	Fair	09/01/06
90741	OZONE	API	400E	1099	Fair	09/01/06
90742	OZONE	API	400E	1100	Fair	09/01/06
90743	OZONE	API	400E	1101	Fair	09/01/06
91211	OZONE	API	400E	1563	Fair	12/31/07
91212	OZONE	API	400E	1098	Fair	09/01/06
92174	OZONE	API	T400	131	Good	06/14/11
92175	OZONE	API	T400	132	Good	06/14/11
93180	OZONE	API	T400	1858	Good	06/17/15
93181	OZONE	API	T400	1857	Good	06/17/15
93182	OZONE	API	T400	1856	Good	06/17/15
93493	OZONE	API	T400	3304	Good	06/16/17
93494	OZONE	API	T400	3305	Good	06/16/17
93495	OZONE	API	T400	3306	Good	06/16/17
		SO2				
90923	SO2	API	100E	68	Poor	06/01/07
92019	SO2	API	100EU	128	Good	06/15/10
93620	SO2	API	T100U	279	Good	07/12/17
93621	SO2	API	T100U	280	Good	07/12/17
		NOy/NO2/NOx/NO				
-	NOx	API	200E	093	Poor	-
90598	NOx	API	200E	52	Poor	02/01/06
92020	NOx	API	200E	3523	Poor	06/15/10
92990	NOx	API	T200	1655	Fair	10/31/14
93194	NOy	API	T200U	235	Good	10/21/15
		CO				
93615	CO ANALYZER	API	T300U	379	Good	06/22/17

MDEQ 2018 EQUIPMENT LIST

Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
			PARTICULATE SAMPLERS			
91053	SEQUENTIAL AIR	Thermo	2025	2025B220010708	Fair	09/14/07
91054	SEQUENTIAL AIR	Thermo	2025	2025B220020708	Fair	09/14/07
91055	SEQUENTIAL AIR	Thermo	2025	2025B220030708	Fair	09/14/07
91056	SEQUENTIAL AIR	Thermo	2025	2025B220040708	Fair	09/14/07
91057	SEQUENTIAL AIR	Thermo	2025	2025B220050708	Fair	09/14/07
91142	SEQUENTIAL AIR	Thermo	2025	2025B22026	Fair	11/14/07
91143	SEQUENTIAL AIR	Thermo	2025	2025B2202679	Fair	11/14/07
91144	SEQUENTIAL AIR	Thermo	2025	2025B220270709	Fair	11/14/07
91624	PORTABLE BETA	EBAM	-	H10709	Good	12/12/08
91625	PORTABLE BETA	EBAM	-	H10710	Good	12/12/08
91700	PORTABLE	BGI	-	292	Good	02/13/09
91701	PORTABLE	BGI	-	293	Good	02/13/09
91702	PORTABLE	BGI	-	290	Good	02/13/09
91703	PORTABLE	BGI	-	291	Good	02/13/09
91794	SEQUENTIAL AIR	Thermo	2025	2025B225390905	Good	06/12/09
92085	PARTICULATE	Thermo	TEOM	1405A211301010	Good	12/14/10
92143	SEQUENTIAL AIR	Thermo	2025	2025B227831104	Good	04/15/11
92144	SEQUENTIAL AIR	R&P	2025	2025B227481104	Good	04/15/11
93390	CONTINUOUS	API	T640	105	Good	01/20/17
93391	CONTINUOUS	API	T640	111	Good	01/20/17
93392	CONTINUOUS	API	T640	107	Good	01/20/17
93393	CONTINUOUS	API	T640	108	Good	01/20/17
93394	CONTINUOUS	API	T640	110	Good	01/20/17
93395	CONTINUOUS	API	T640	109	Good	01/20/17
93396	CONTINUOUS	API	T640	106	Good	01/20/17
93397	CONTINUOUS	API	T640	104	Good	01/20/17
93676	CONTINUOUS PARTICULATE	API	T640X	286	Good	12/11/17

MDEQ 2018 EQUIPMENT LIST

Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
			FLOW DEVICES			
86620	FLOW METER	BIOS	DC-Lite	1018	Poor	12/01/98
86647	FLOW METER	FTS Dwyer	475 Mark II	981017	Poor	01/01/99
86833	FLOW METER	FTS Dwyer	475 Mark II	990203	Poor	04/01/99
89815	FLOW METER	BIOS	DCL-MH	101481	Poor	12/01/03
91596	FLOW METER	BIOS	220-H	114705	Good	08/14/08
91790	FLOW METER	BGI	Deltacal	781	Good	06/12/09
92105	FLOW METER	BIOS	220-L	120907	Good	03/15/11
92220	FLOW METER	BGI	Deltacal	1052	Good	09/15/11
93370	FLOW METER	BIOS	220-H	151292	Good	09/27/16
93371	FLOW METER	BIOS	220-L	146603	Good	09/27/16
93652	FLOW METER	BGI	Tetracal	156675	Good	10/24/17
93674	FLOW METER	BGI	Deltacal	158052	Good	01/09/18
-	FLOW METER	BGI	Tetracal	600	Good	10/31/09
-	FLOW METER	BGI	Tetracal	603	Good	10/31/09
	DATA LOGGERS					
91050	DATA LOGGER	ESC	8832	A2059	Good	09/14/07
91051	DATA LOGGER	ESC	8832	A2058	Good	09/14/07
91134	DATA LOGGER	ESC	8832	A2020	Good	11/14/07
91135	DATA LOGGER	ESC	8832	A2021	Good	11/14/07
91136	DATA LOGGER	ESC	8832	A2040	Good	11/14/07
91137	DATA LOGGER	ESC	8832	A2041	Good	11/14/07
91788	DATA LOGGER	ESC	8832	A3222K	Good	06/12/09
91789	DATA LOGGER	ESC	8832	A3223K	Good	-
92942	DATA LOGGER	ESC	8832	A4838K	Good	-
92943	DATA LOGGER	ESC	8832	A4837K	Good	-
92944	DATA LOGGER	ESC	8832	A4836K	Good	-
92945	DATA LOGGER	ESC	8832	A4839K	Good	-
92949	DATA LOGGER	ESC	8832	4838	Good	-

MDEQ 2018 EQUIPMENT LIST

Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
			CALIBRATORS			
88441	CALIBRATOR	API	700	740	Fair	07/01/01
90599	CALIBRATOR	API	700	1278	Fair	02/01/06
92084	CALIBRATOR	API	T700U	55	Good	-
92234	CALIBRATOR	Environics	6103	5115	Fair	10/21/11
92430	CALIBRATOR	Environics	6103	5418	Fair	08/17/12
92431	CALIBRATOR	Environics	6103	5416	Fair	08/17/12
92432	CALIBRATOR	Environics	6103	5420	Fair	08/17/12
92433	CALIBRATOR	Environics	6103	5417	Fair	08/17/12
92434	CALIBRATOR	Environics	6103	5419	Fair	08/17/12
92849	CALIBRATOR	API	T700U	167	Good	-
92850	CALIBRATOR	API	T700	814	Good	-
93385	CALIBRATOR	API	T703U	122	Good	12/27/17
93386	CALIBRATOR	API	T703U	123	Good	12/27/17
93387	CALIBRATOR	API	T703U	3010	Good	12/30/16
93490	CALIBRATOR	API	T703U	180	Good	06/17/17
93491	CALIBRATOR	API	T703U	181	Good	06/17/17
93492	CALIBRATOR	API	T703U	182	Good	06/17/17
93656	CALIBRATOR	API	T703U	190	Good	11/17/17
93675	CALIBRATOR	API	T703U	194	Good	12/05/17
93677	CALIBRATOR	API	T700	3732	Good	01/08/18
		ZERO AIR UNITS				
No Inv #	ZERO AIR UNIT	API	701	1365	Fair	-
No Inv #	ZERO AIR UNIT	API	702	1875	Fair	-
83371	ZERO AIR UNIT	Sabio	2020	5930537	Fair	05/01/93
84933	ZERO AIR UNIT	API	701	82	Fair	08/01/95
89694	ZERO AIR UNIT	Sabio	2020	2440703	Fair	08/01/03
91623	ZERO AIR UNIT	API	701-H	2839	Good	12/12/08
92435	ZERO AIR UNIT	Sabio	2020	-	Good	08/17/12
92436	ZERO AIR UNIT	Sabio	2020	-	Good	08/17/12
92437	ZERO AIR UNIT	Sabio	2020	-	Good	08/17/12
92486	ZERO AIR UNIT	Sabio	2020	-	Good	08/17/12
92487	ZERO AIR UNIT	Sabio	2020	-	Good	08/17/12
93388	ZERO AIR UNIT	API	701H	1653	Good	01/20/17
93389	ZERO AIR UNIT	API	701H	1654	Good	01/20/17

93496 ZERO AIR UNIT API 701H 1684
Good 06/16/17

MDEQ 2016 EQUIPMENT LIST

Item

Inventory Number		Manufacturer	Type	Serial Number	Condition	Purchase Date
	MISCELLANEOUS					
83364	STRIP CHART	Cole Palmer	0555-000	10933	Fair	05/01/93
83370	STRIP CHART	Cole Palmer	0585-0000	10909	Fair	05/01/93
89684	WEATHER	-	-	C1735	Fair	05/01/03
91632	WEATHER	Auto Met	-	H10447	Good	01/15/09
91633	WEATHER	Metone	-	H10709	Good	01/15/09
91634	WEATHER STATION	Metone	466A	H10448	Good	01/15/09