MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MONITORING NETWORK PLAN 2022

INDEX

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 Air Quality System (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 Particulate Matter (PM)2.5 and Ozone National Ambient Air Quality Standards (NAAQS) as described in part 58.30.
- The Metropolitan Statistical Area (MSA), Core Based Statistical Area (CBSA), Consolidated Statistical Area (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.

2. Overview:

In the State of Mississippi, the Mississippi Department of Environmental Quality (MDEQ) 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 (AQI) 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 (O3), Particulate Matter (PM), Nitrogen Dioxide (NO2), Sulfur Dioxide (SO2), and Carbon Monoxide (CO) data is reported to the EPA AirNow website.

All site data are suitable for the NAAQS comparisons per appendices A, C, D, and E. MDEQ's Quality Management Plan (QMP) is current with an approval date of 10/03/2019, while the Criteria Pollutants Quality Assurance Project Plan (QAPP) has an, EPA, approval date of 12/06/18. The QMP, QAPP and SOPs were reviewed February 2021.

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 (See appendix III for the US Census information). The tables below and the discussion on the following pages summarize this information.

3. 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 Code of Federal Regulations (CFR) parts 53 and 58 documents, census data and maps. All monitors operated by MDEQ are State and Local Air Monitoring Stations (SLAMS).

The following sections describe 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.

Memphis MSA:

1. **Hernando** (DeSoto Co. 28.033.0002) – MDEQ operates an ozone monitor, and a continuous Federal Equivalent Method (FEM) $PM_{2.5}$ monitor at this site that is designated as a transport monitor and therefore is a required monitor. MDEQ has a regional monitoring agreement with Memphis, TN, and AR to meet Appendix D requirements section 2, e. A copy of this agreement is attached (see Appendix III) and is on file at EPA Region 4. Currently, the DeSoto Co. monitoring site has one continuous FEM $PM_{2.5}$ and an ozone monitor.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The ozone and continuous FEM $PM_{2.5}$ sample inlet are 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 Fluorinated Ethylene Propylene (FEP) and the fittings are Perfluoroalkoxy (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 MSA:

1. **Jackson NCore** (Hinds Co. 28.049.0020) – The NCore site contains a full complement of monitors, including meteorological. The monitoring parameters currently include Ozone (O3), Sulfur Dioxide (SO2), Carbon Monoxide (CO), Nitric Oxides as NOy, manual Federal Reference Method (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 operates 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 inlets are 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 Ozone, Sulfur Dioxide, Carbon Monoxide, Nitric Oxides as NOy, 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 operates an ozone monitor, and a continuous FEM $PM_{2.5}$ monitor 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 $PM_{2.5}$ 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 ozone 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.

Hattiesburg MSA:

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

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The continuous FEM $PM_{2.5}$ and FRM $PM_{2.5}$ sample inlets are 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.

Gulfport-Biloxi-Pascagoula MSA:

1. **Gulfport** (Harrison Co. 28.047.0008) – MDEQ operates an ozone monitor, and a continuous FEM $PM_{2.5}$ monitor 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 $PM_{2.5}$ 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 ozone 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 operates an ozone monitor, and a continuous FEM $PM_{2.5}$ monitor 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 FEM $PM_{2.5}$ is approximately 5.2 meters above ground level. Both the ozone and continuous FEM $PM_{2.5}$ monitors are approximately 24 meters, northwest, from the nearest road.

    - **Sampling train:** The ozone 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.

1. **Pascagoula** (Jackson Co. 28.059.0006) – MDEQ operates an ozone, sulfur dioxide, nitrogen oxide (NOx) monitor, and a continuous FEM $PM_{2.5}$ monitor at this site. The NO_x monitor is designated as a RA-40 site. The SO2 monitor is designated as a population weighted exposure index (PWEI) site.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. The O3, 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 O3, 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.

Non- MSA Sites:

1. **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 O3 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. **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 O3 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. **Cleveland** (Bolivar Co. 28.011.0002) – MDEQ operates an ozone monitor, and a continuous FEM $PM_{2.5}$ monitor (Background) 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 O3 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. *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

Network Tables:

NETWORK DESIGN TABLES MISSISSIPPI

PM10

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

PM2.5

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	PM10-2.5 (primary) Manual (3 Day) Continuous	238 T640x 240 T640x 145 SEQ	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

NOx/NOy

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	699	Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	Continuous	099	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

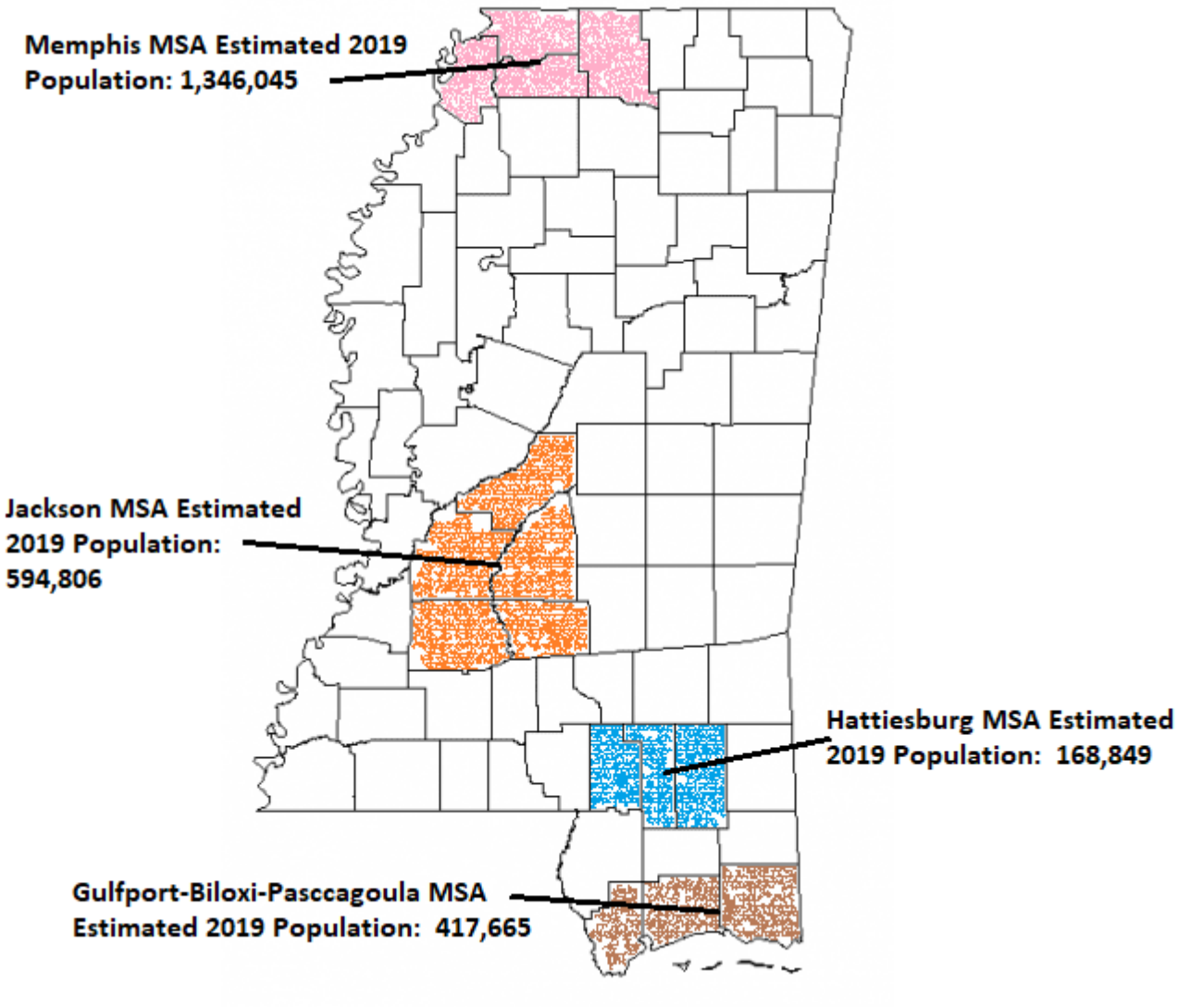
Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	Method	Schedule
Cleveland	Bolivar	N/A	28-011-0002	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Gulfport	Harrison	Gulf/Biloxi/Pas	28-047-0008	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Waveland	Hancock	Gulf/Biloxi/Pas	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	Gulf/Biloxi/Pas	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

6. Site Location Coordinates

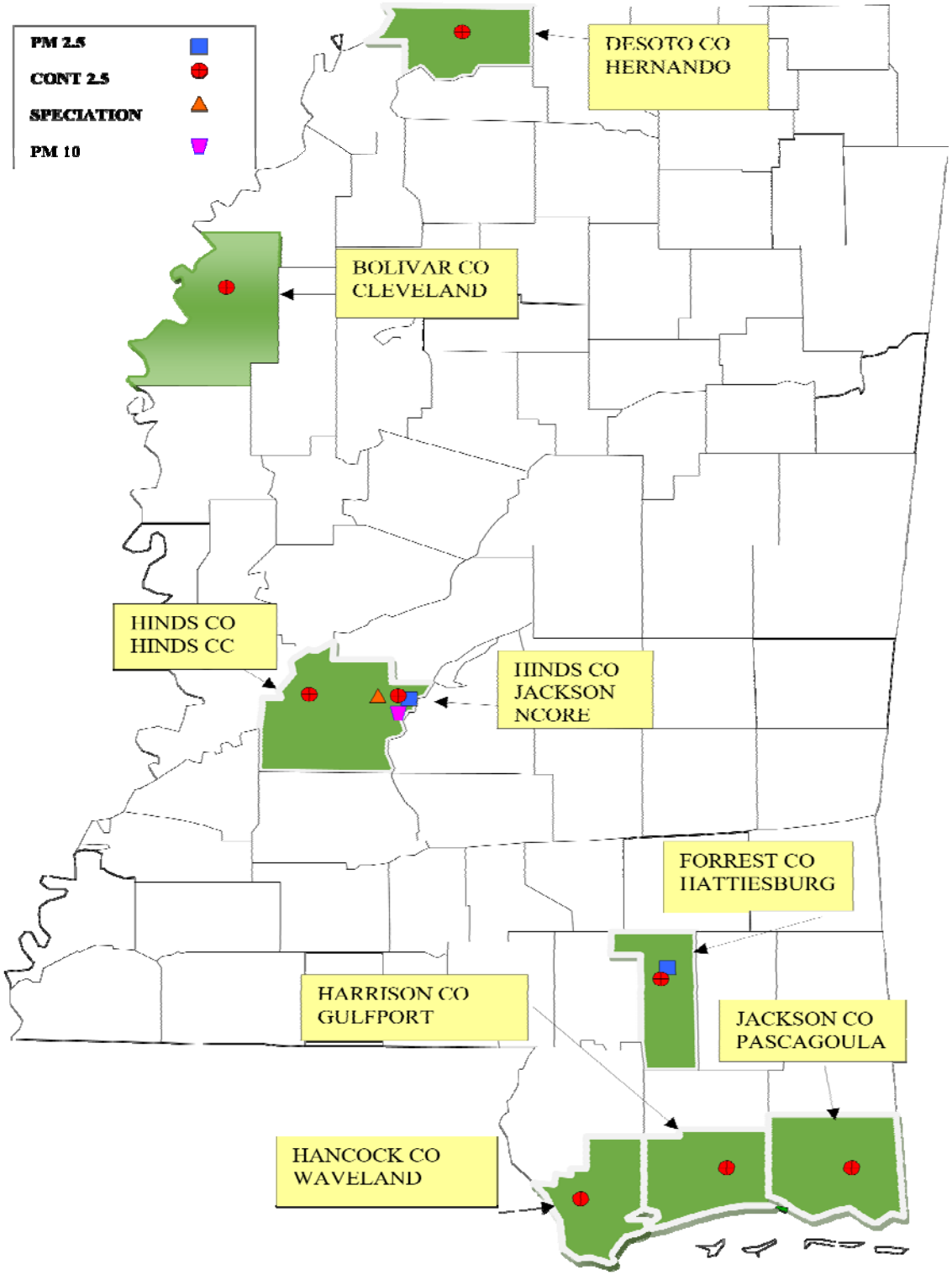
#	SITE ID	LAT			LONG			NAME	COUNTY	ADDRESS
1	28-011-0002	33	45	3	90	44	3	CLEVELAND	BOLIVAR	HWY 8 Cleveland (Delta State)
2	28-033-0002	34	49	14	89	59	16	HERNANDO	DESOTO	5 East South St.
3	28-035-0004	31	19	26	89	17	32	HATTIESBURG	FORREST	101 Ferguson St.
4	28-045-0003	30	18	4	89	23	45	WAVELAND	HANCOCK	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

MSA and Pollutant Maps

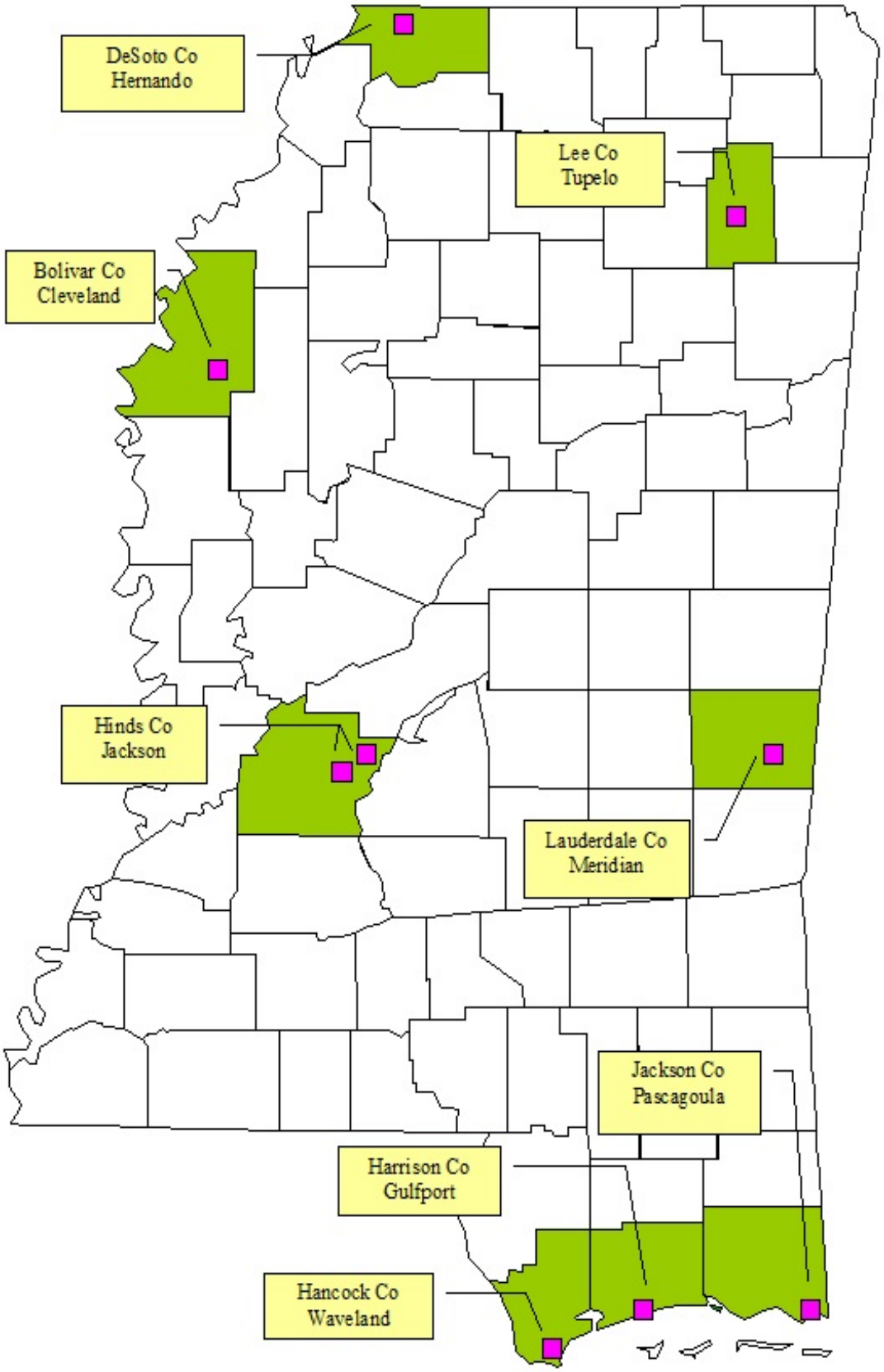


MISSISSIPPI MSA AREAS 2022

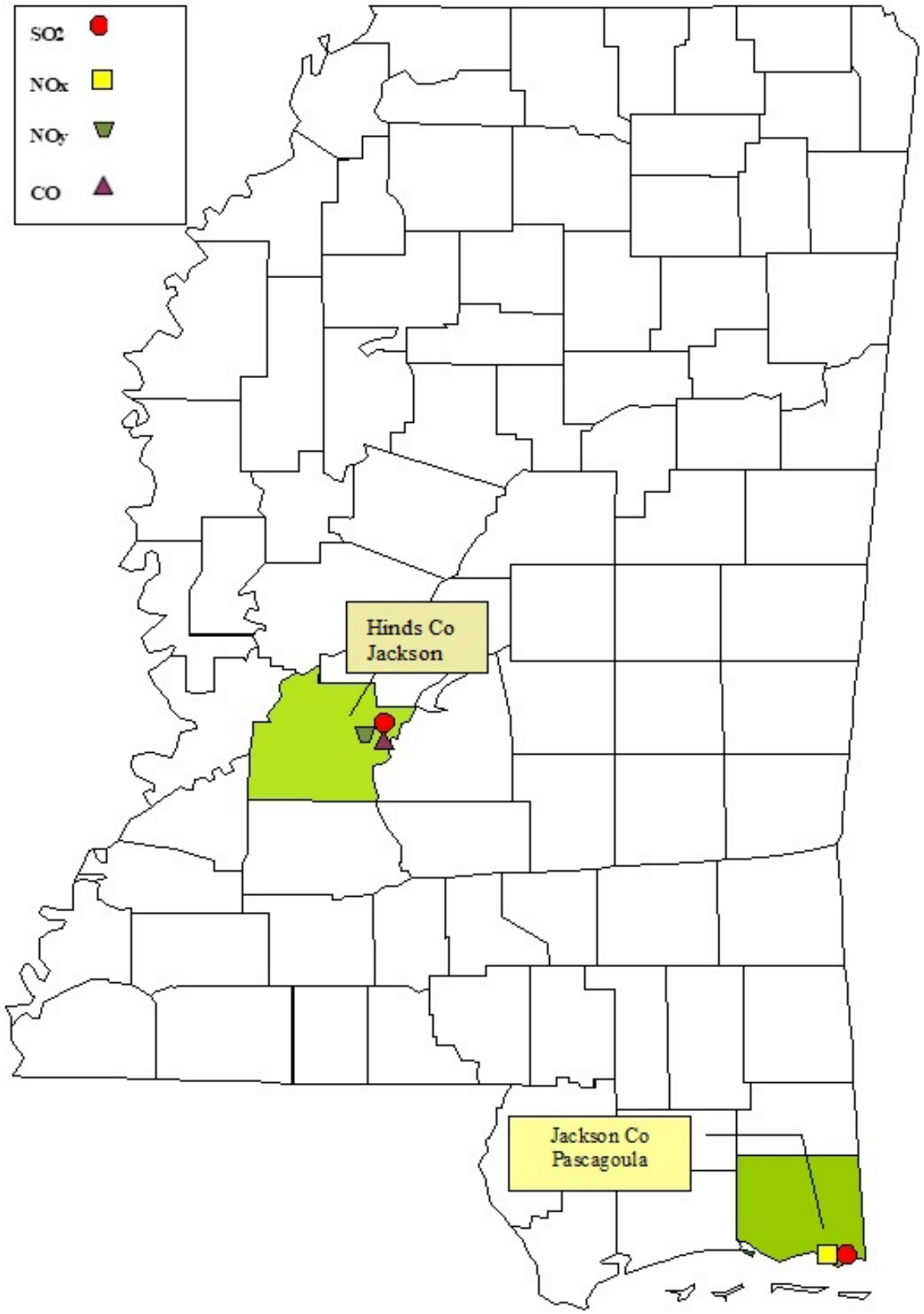
MEMPHIS – DeSoto, Tunica, Marshall, Tate
JACKSON – Hinds, Rankin, Copiah, Simpson, Madison
HATTIESBURG – Lamar, Forrest, Perry
GULFPORT-BILOXI-PASAGOULA – Hancock, Harrison, Jackson



MDEQ PARTICUALTE SITES-2022



MDEQ Ozone Sites - 2022



MDEQ SO2 / NOx/ NOy/ CO SITES - 2022

Site Maps and Photos

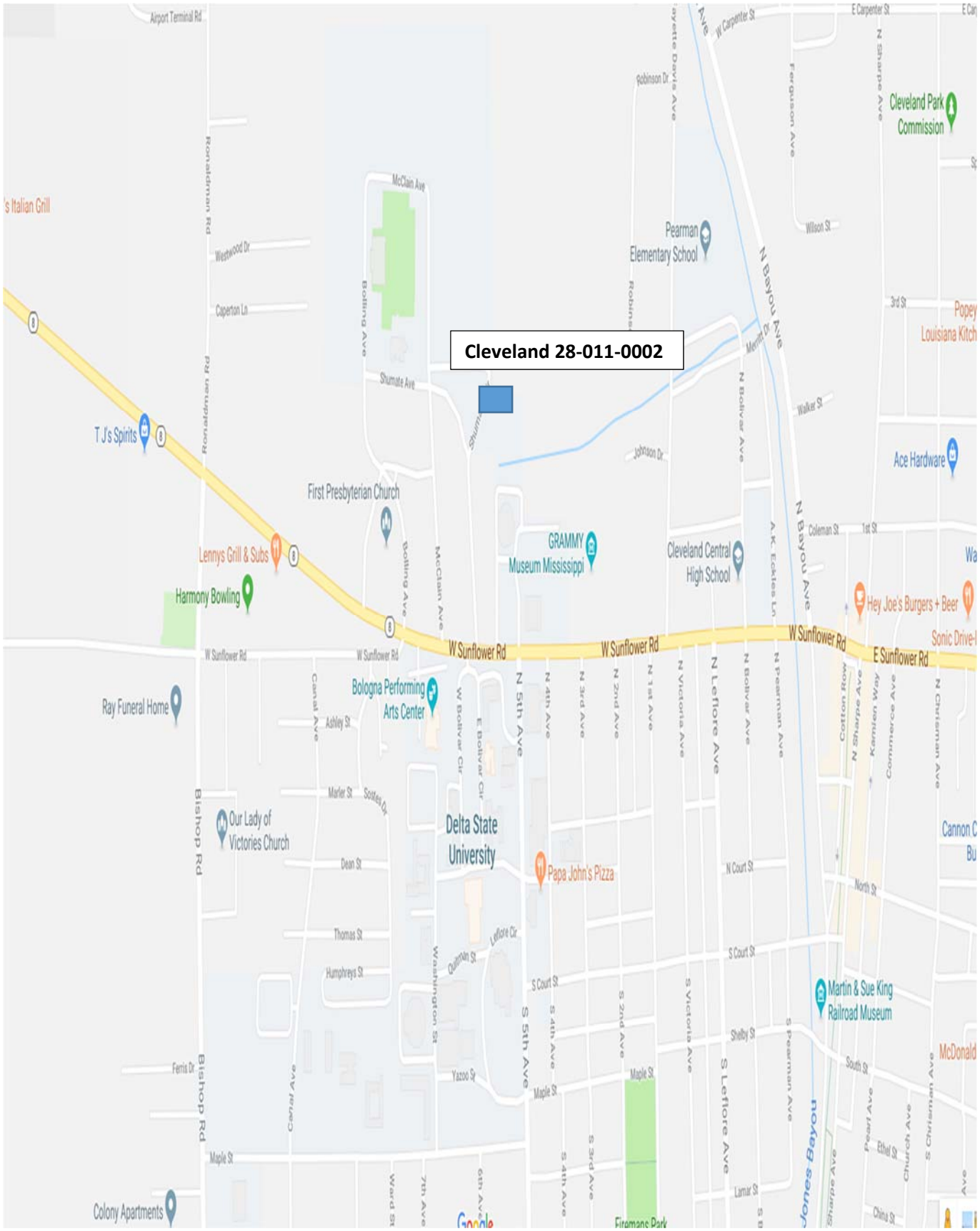
Cleveland- North

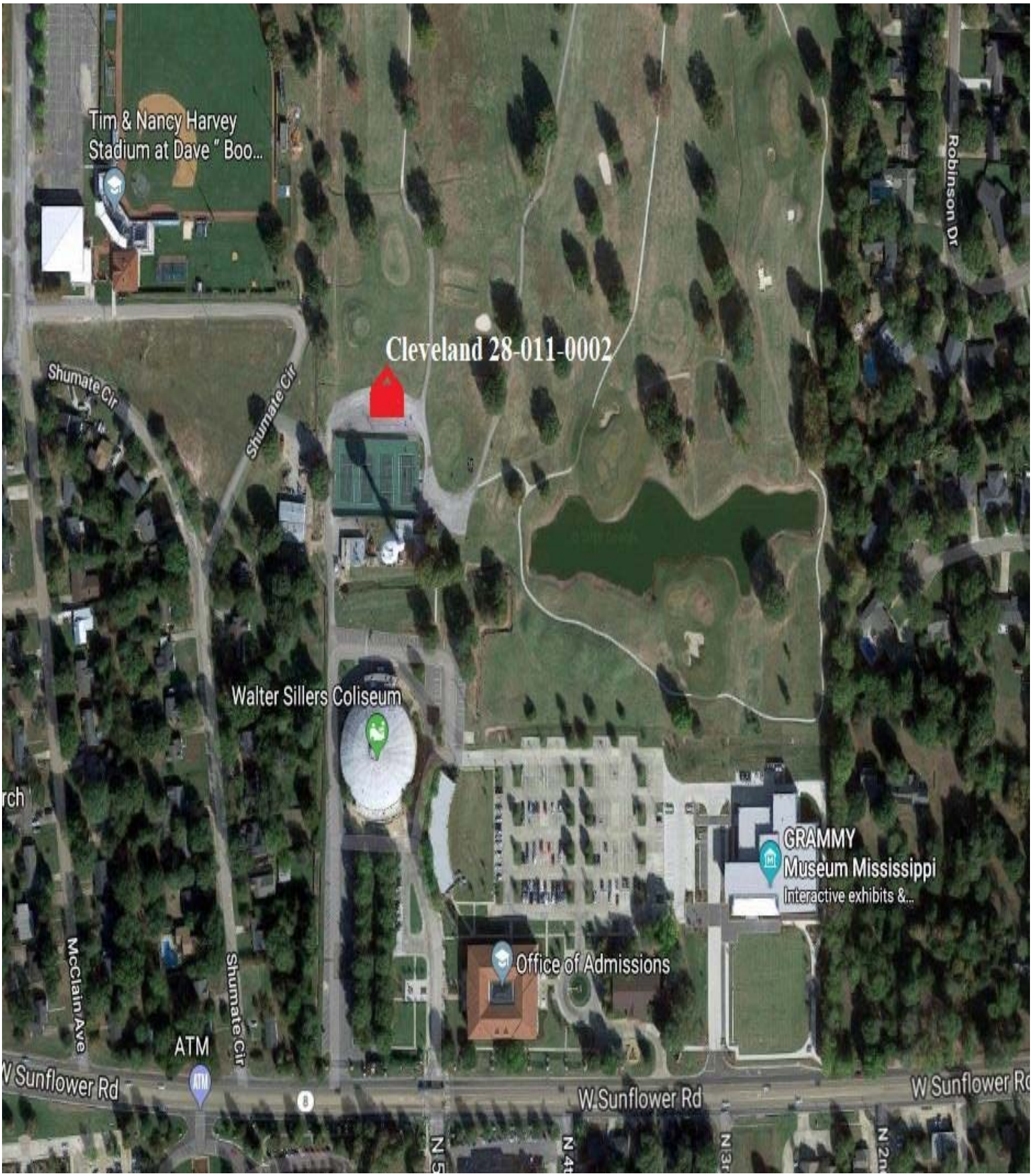
Cleveland- South

Cleveland- East

Cleveland- West

Cleveland 28-011-0002


Cleveland 28-011-0002
Airport Terminal Rd
Ronaldman Rd
McClain Ave
Westwood Dr
Caperton Ln
Bolling Ave
Shumate Ave
Pearman Elementary School
Cleveland Park Commission
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
N Court St
North St
S Court St
Martin & Sue King Railroad Museum
Shelby St
South St
Dean St
Thomas St
Humphreys St
Quitman St
Washington St
Yazoo St
Maple St
Ferris Dr
Colony Apartments
Firemans Park
Lamar St
China St
Pearl Ave
Ethel St
Church Ave
Jones Bayou
N 5th Ave
S 5th Ave
N Leflore Ave
S Leflore Ave
N Victoria Ave
S Victoria Ave
N Pearman Ave
S Pearman Ave
N Sharpe Ave
Commerce Ave
Cotton Row
Kamien Way
N Chrisman Ave
S Chrisman Ave
Canal Ave
Leflore Cir
E Bolivar Cir
W Bolivar Cir
N Bolivar Ave
Ward St
6th Ave
7th Ave
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
W Sunflower Rd
W Sunflower Rd
W Sunflower Rd

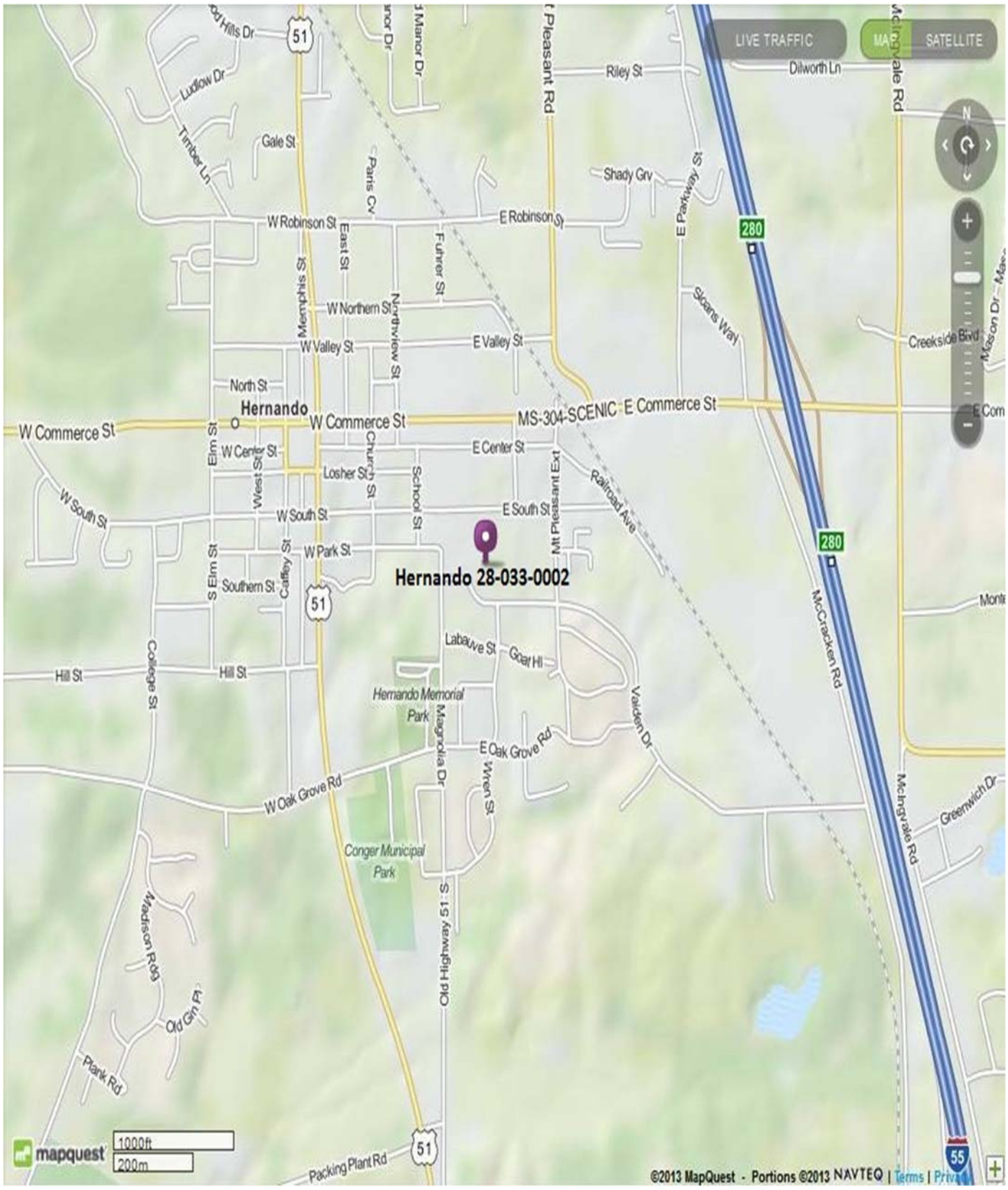
Hernando- North

Hernando- South

Hernando- East

Hernando- West

Hernando 28-033-0002


LIVE TRAFFIC
MAP
SATELLITE
Hernando 28-033-0002
Hernando
W Commerce St
MS-304-SCENIC E Commerce St
E Commerce St
W Robinson St
E Robinson St
W Valley St
E Valley St
W Northern St
W Center St
E Center St
Losher St
W South St
E South St
W Park St
Southern St
North St
Gale St
Riley St
Dilworth Ln
Shady Grv
Sloans Way
Creekside Blvd
Railroad Ave
Labauve St
Goat Hl
Hill St
Hernando Memorial Park
E Oak Grove Rd
W Oak Grove Rd
Conger Municipal Park
Old Highway 51 S
Packing Plant Rd
Madison Rdg
Old Gin Pl
Plank Rd
Greenwich Dr
Monte
Ludlow Dr
Timber Ln
Hills Dr
Manor Dr
Paris Cv
Pleasant Rd
E Parkway St
Mason Dr
Elm St
West St
Church St
School St
Mt Pleasant Ext
Caffey St
College St
Magnolia Dr
Wren St
Vaiden Dr
McCracken Rd
McIngvale Rd
280
51
55
1000ft
200m
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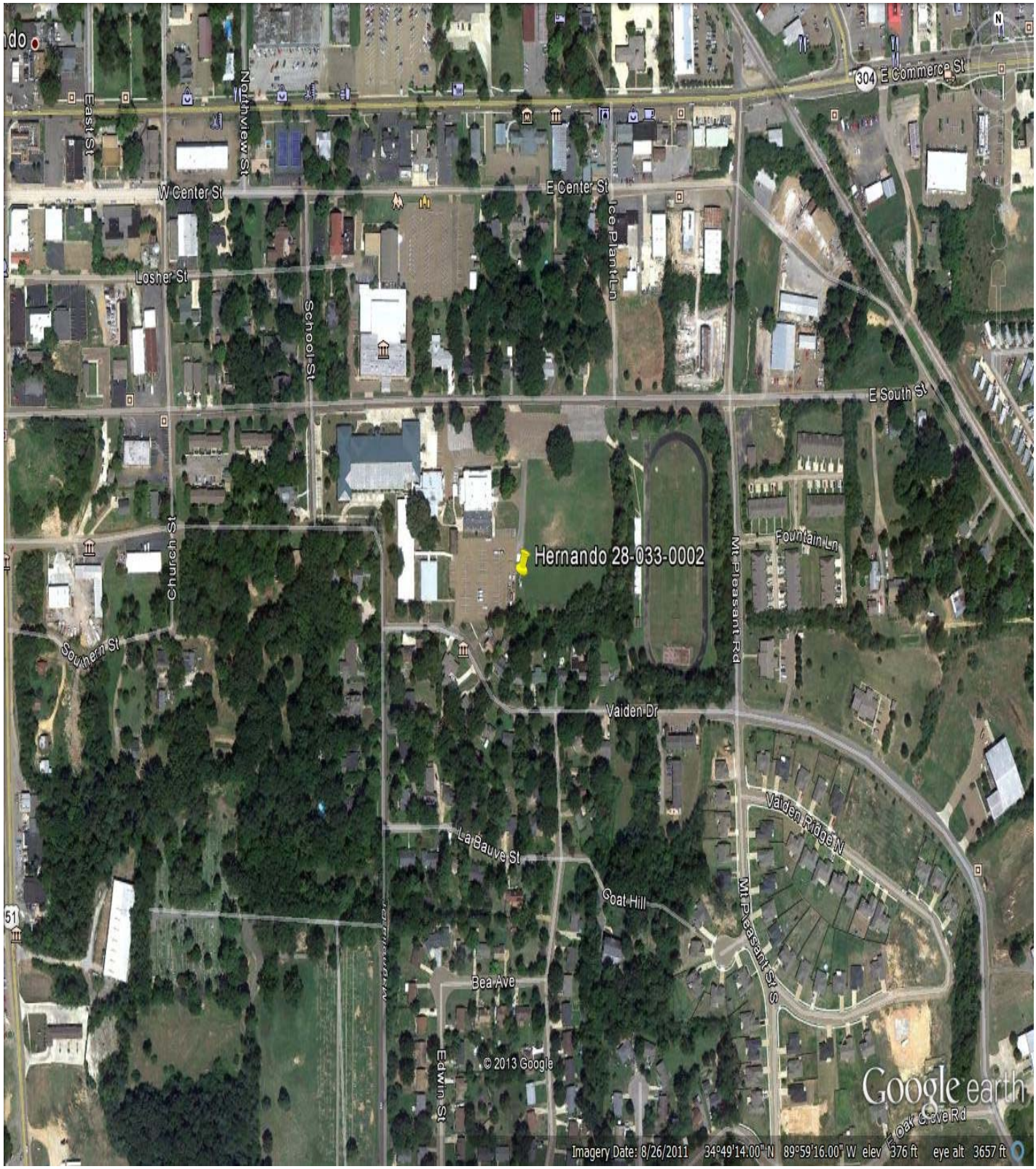
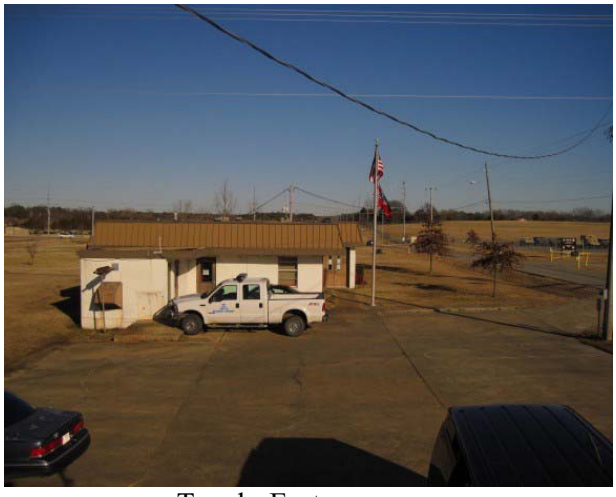

E Commerce St
304
East St
Northwinds St
W Center St
E Center St
Ice Plant Ln
Losher St
School St
E South St
Church St
Hernando 28-033-0002
Fountain Ln
Mt Pleasant Rd
Southern St
Vaiden Dr
Vaiden Ridge N
La Bauve St
Goat Hill
Mt Pleasant St S
Bea Ave
Edwin St
51
© 2013 Google
Google earth
Imagery Date: 8/26/2011 34°49'14.00" N 89°59'16.00" W elev 376 ft eye alt 3657 ft

Tupelo-North

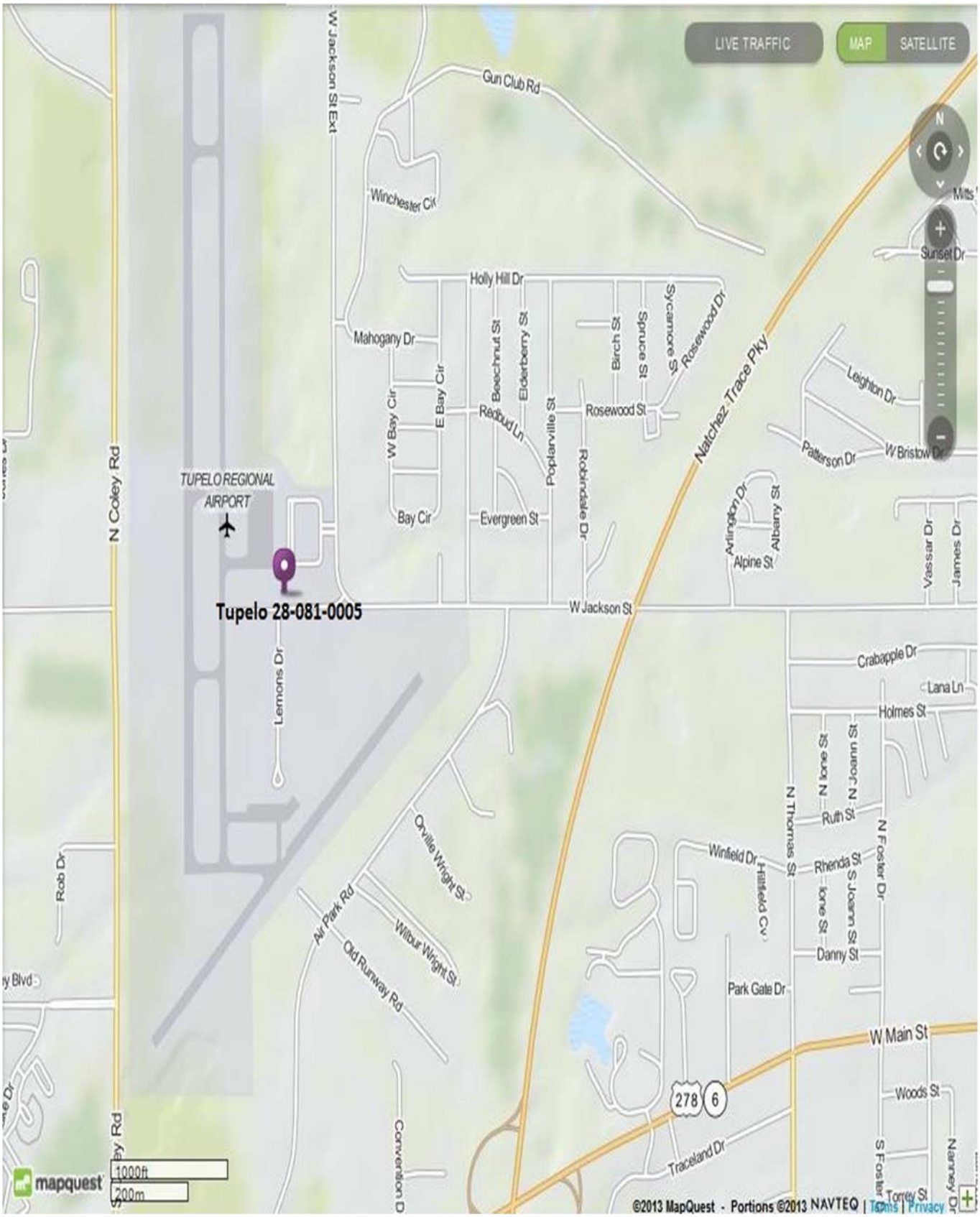
Tupelo-South



Tupelo-East

Tupelo-West

Tupelo 28-081-0005


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


Mahogany Dr
W Jackson Street Extended
Sourwood Dr
E Bay Cir
Elderberry St
Beechnut St
Redbud Ln
Persimmon Dr
Huckleberry Trail
Hickory Dr
Bay Cir
Evergreen St
Holly Hill Dr
Poplar St
Tupelo 28-081-0005
W Jackson St
Coley Rd
Lemons Dr
A 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

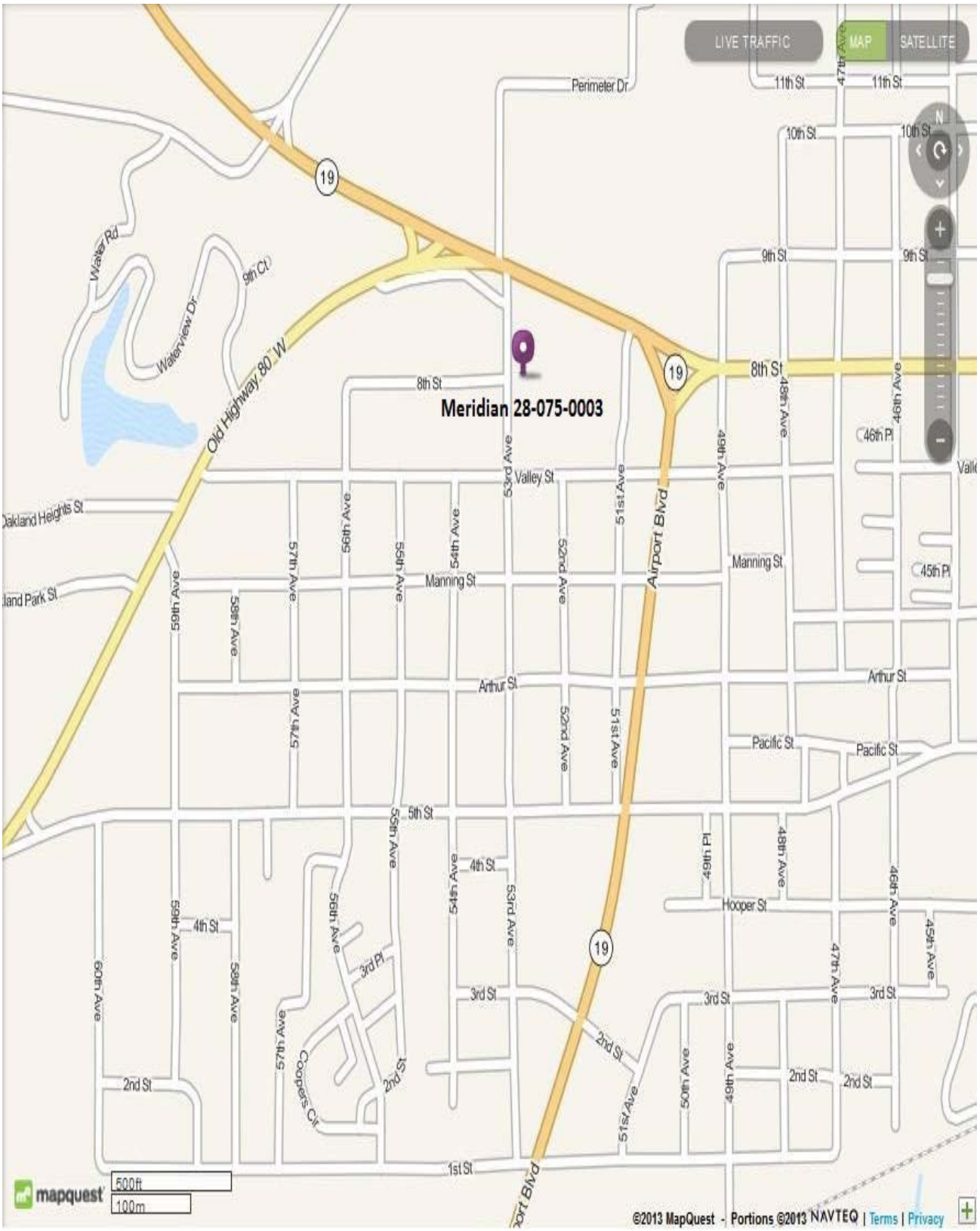
Meridian- North

Meridian- South

Meridian- East

Meridian- West

Meridian 28-075-0003


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


Old Hwy 80 W
Meridian 28-075-0003
Hwy 19
9th St
8th St
Vally St
Valley St
53rd Ave
51st Ave
49th Ave
48th Ave
56th Ave
55th Ave
54th Ave
52nd Ave
Manning St
© 2013 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

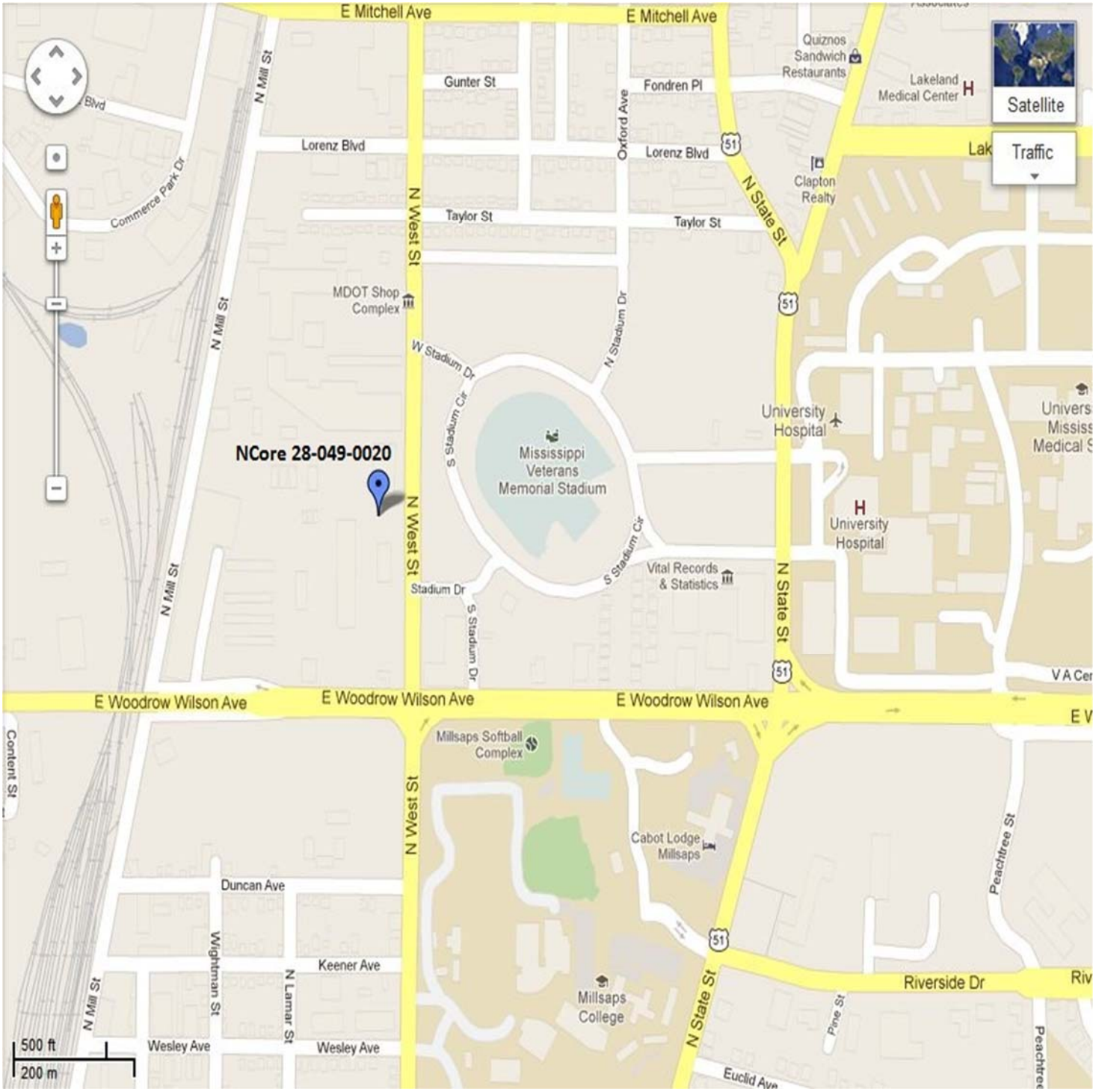
NCore- North

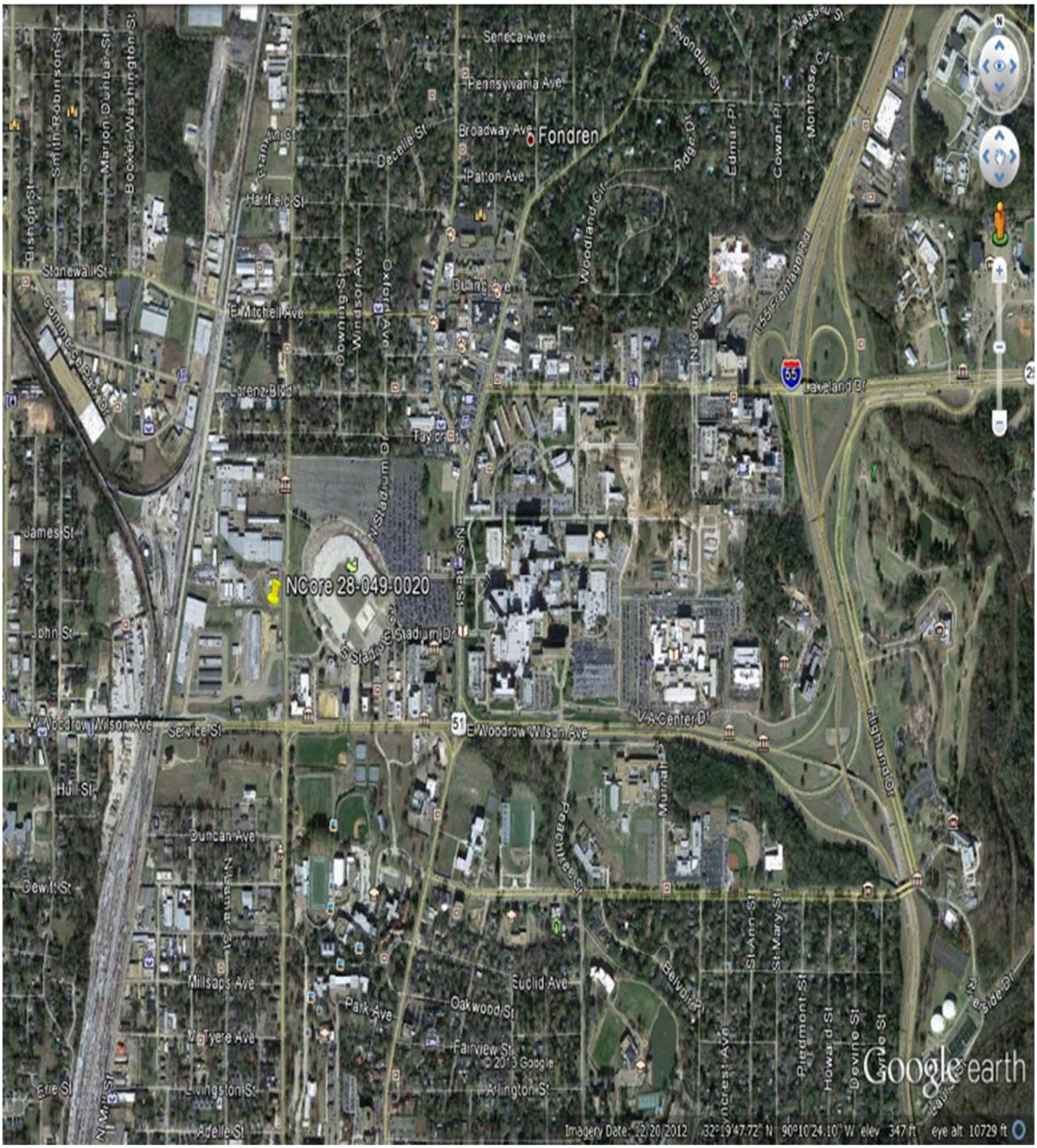
NCore- South

NCore- East

NCore- West

Jackson NCore 28-049-0020


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 Mill St
N West St
N State St
Clapton Realty
Taylor St
Taylor St
Commerce Park Dr
MDOT Shop Complex
N Stadium Dr
W Stadium Dr
S Stadium Cir
NCore 28-049-0020
Mississippi Veterans Memorial Stadium
University Hospital
Vital Records & Statistics
Stadium Dr
S Stadium Dr
E Woodrow Wilson Ave
E Woodrow Wilson Ave
E Woodrow Wilson Ave
Millsaps Softball Complex
Cabot Lodge Millsaps
Peachtree St
Duncan Ave
Keener Ave
Wightman St
N Lamar St
Riverside Dr
Millsaps College
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
Harfield St
Decelle St
Stanwill Ct
Bishop St
Smith Robinson St
Marion Dunbar St
Booker Washington St
Stonewall St
Commerce St
E Mitchell Ave
Lorenz Blvd
Tyler Dr
Duling Ave
Oxford Ave
Winsor Ave
Cummings St
N Gloster St
N State St
James St
John St
W Woodrow Wilson Ave
Service St
Hull St
Duncan Ave
Dewitt St
Millsaps Ave
Park Ave
Oakwood St
Fairview St
Arlington St
Erie St
Adelle St
Woodland Cir
Ridge Dr
Edmar Pl
Cowan Pl
Montrose Cv
Nassau St
Avondale St
I-55 Frontage Rd
Lakeland Dr
E Woodrow Wilson Ave
V.A. Center Dr
Highland Dr
Murrah
Peachtree St
St Ann St
St Mary St
Belvidere Pl
Piedmont St
Howard St
Devine St
Lynncrest Ave
© 2013 Google
Google earth
Imagery Date: 2/20/2012 32°19'47.72" N 90°10'24.10" W elev 347 ft eye alt 10729 ft

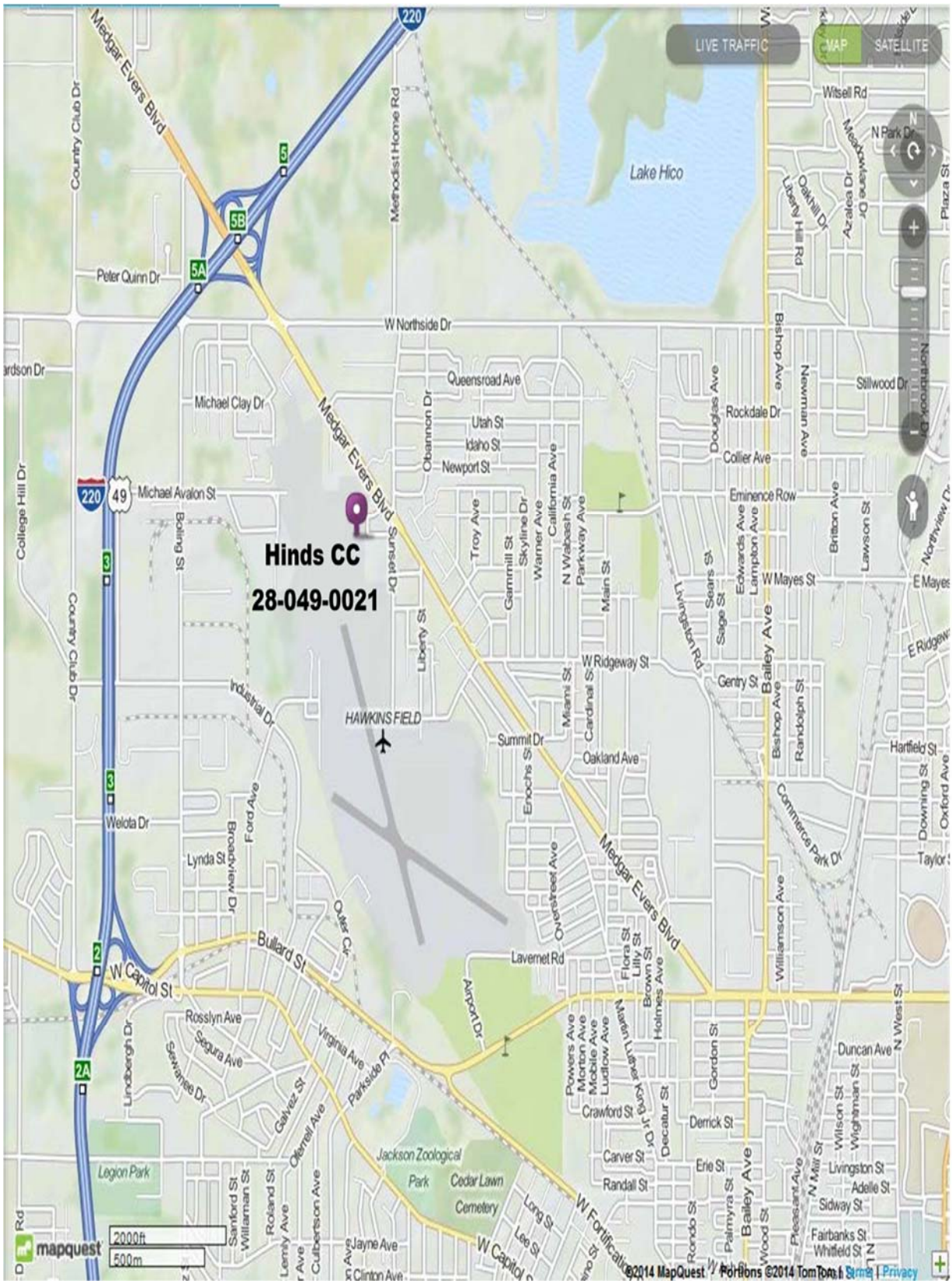
Hinds CC- North

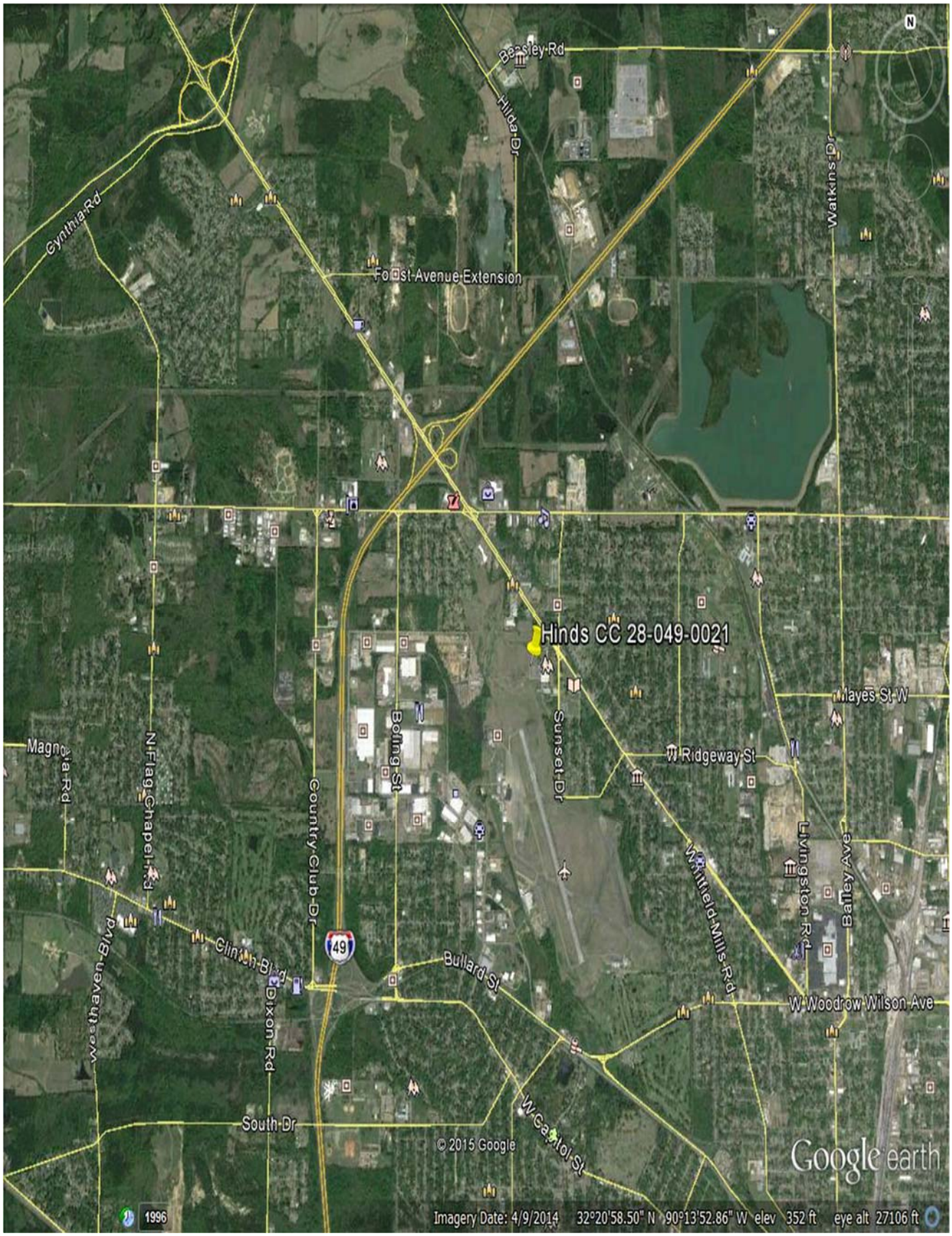
Hinds CC- South

Hinds CC- East

Hinds CC- West

Hinds CC 28-049-0021


Hinds CC
28-049-0021
Medgar Evers Blvd
Michael Avalon St
Michael Clay Dr
W Northside Dr
Peter Quinn Dr
Lake Hico
HAWKINS FIELD
Industrial Dr
Welota Dr
Lynda St
Bullard St
W Capitol St
Lavernet Rd
Summit Dr
Oakland Ave
W Ridgeway St
Gentry St
W Mayes St
Eminence Row
Collier Ave
Rockdale Dr
Queensroad Ave
Utah St
Idaho St
Newport St
Rosslyn Ave
Segura Ave
Sewanee Dr
Virginia Ave
Parkside Pl
Jackson Zoological Park
Cedar Lawn Cemetery
Legion Park
Derrick St
Carver St
Randall St
Erie St
Livingston St
Adelle St
Sidway St
Fairbanks St
Whitfield St
Duncan Ave
Crawford St
Bailey Ave
Commerce Park Dr
Williamson Ave
Bishop Ave
Newman Ave
Stillwood Dr
Hartfield St
Taylor St
Oxford Ave
Downing St
Britton Ave
Lawson St
Edwards Ave
Lampton Ave
Sage St
Sears St
Livingston Rd
Main St
Parkway Ave
N Wabash St
California Ave
Warner Ave
Skyline Dr
Gammill St
Troy Ave
Liberty St
Obannon Dr
Sunset Dr
Ford Ave
Broadview Dr
Outer Cir
Airport Dr
Overstreet Ave
Epochs St
Miami St
Cardinal St
Flora St
Lilly St
Brown St
Holmes Ave
Powers Ave
Morton Ave
Mobile Ave
Ludlow Ave
Decatur St
Gordon St
Wilson St
Wightman St
N Mill St
Pleasant Ave
Wood St
Palmyra St
Rondo St
Long St
Lee St
Jayne Ave
Clinton Ave
Culbertson Ave
Lemly Ave
Roland St
Samford St
Williaman St
Oliemell Ave
Galvez St
Lindbergh Dr
Country Club Dr
College Hill Dr
Bolling St
Methodist Home Rd
Liberty Hill Rd
Oakhill Dr
Azalea Dr
Meadowbrook Dr
Northbrook Dr
Plaza St
N Park Dr
Witsell Rd
LIVE TRAFFIC
MAP
SATELLITE
mapquest
2000 ft
500 m
©2014 MapQuest, Portions ©2014 TomTom | Terms | Privacy


Beasley Rd
Hilda Dr
Watkins Dr
Cynthia Rd
Forest Avenue Extension
Hinds CC 28-049-0021
Mayes St W
W Ridgeway St
Sunset Dr
Boling St
Country Club Dr
N Flag Chapel Rd
Magnolia Rd
Westhaven Blvd
Clinton Blvd
Dixon Rd
49
Bullard St
Whitfield Mills Rd
Livingston Rd
Bailey Ave
W Woodrow Wilson Ave
South Dr
W Capitol St
© 2015 Google
Google earth
1996
Imagery Date: 4/9/2014 32°20'58.50" N 90°13'52.86" W elev 352 ft eye alt 27106 ft

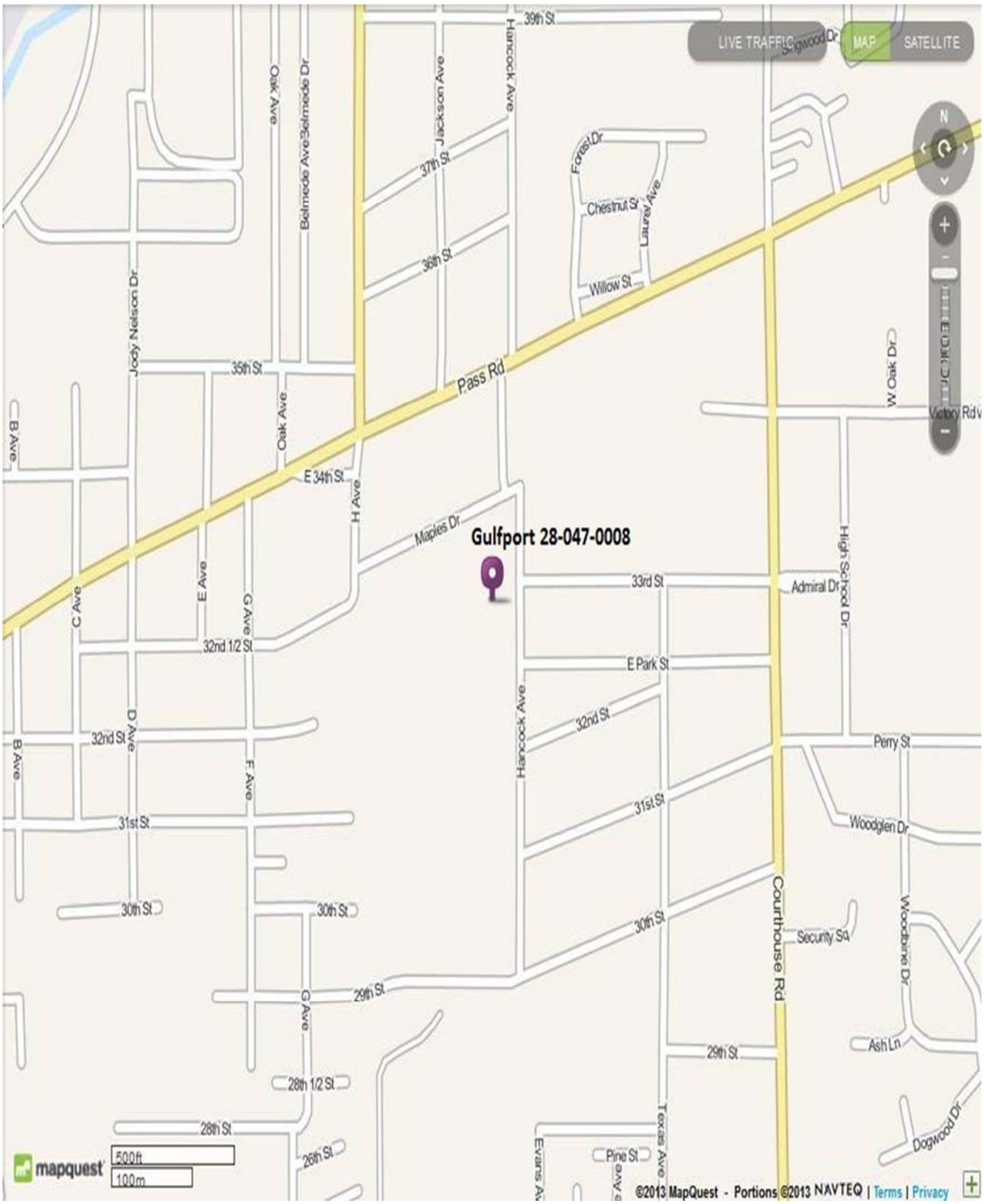
Gulfport- North

Gulfport- South

Gulfport- East

Gulfport- West

Gulfport 28-047-0008


Gulfport 28-047-0008
Pass Rd
39th St
37th St
36th St
35th St
E 34th St
32nd 1/2 St
32nd St
31st St
30th St
29th St
28th 1/2 St
28th St
26th St
33rd St
E Park St
Maples Dr
Willow St
Chestnut St
Forest Dr
Laurel Ave
Jackson Ave
Hancock Ave
Oak Ave
Belmede Ave
Belmede Dr
Jody Nelson Dr
B Ave
C Ave
D Ave
E Ave
F Ave
G Ave
H Ave
Courthouse Rd
High School Dr
Admiral Dr
Perry St
Woodglen Dr
Security Sq
Woodbine Dr
Ash Ln
Dogwood Dr
Texas Ave
Pine St
Evans Ave
W Oak Dr
Victory Rd
LIVE TRAFFIC
MAP
SATELLITE
mapquest
500 ft
100 m
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37th St
Chestnut St
Laurel Ave
36th St
Forest Dr
Belmeade Dr
Washington Ave
Jackson Ave
W Oak Dr
Jody Nelson Dr
Oak Ave
Pass Rd
E 34th St
H Ave
Courthouse Rd
Maples Cir
Gulfport 28-047-0008
33rd St
Admiral Dr
High School Dr
E Ave
32nd 1/2 St
E Park St
32nd St
31st St
D Ave
30th 1/2 St
Hancock Ave
30th St
F Ave
29th St
©2013 Google
Google earth
Imagery Date: 11/10/2011 30°23'25.13" N 89°02'58.19" W elev 31 ft eye alt 4238 ft

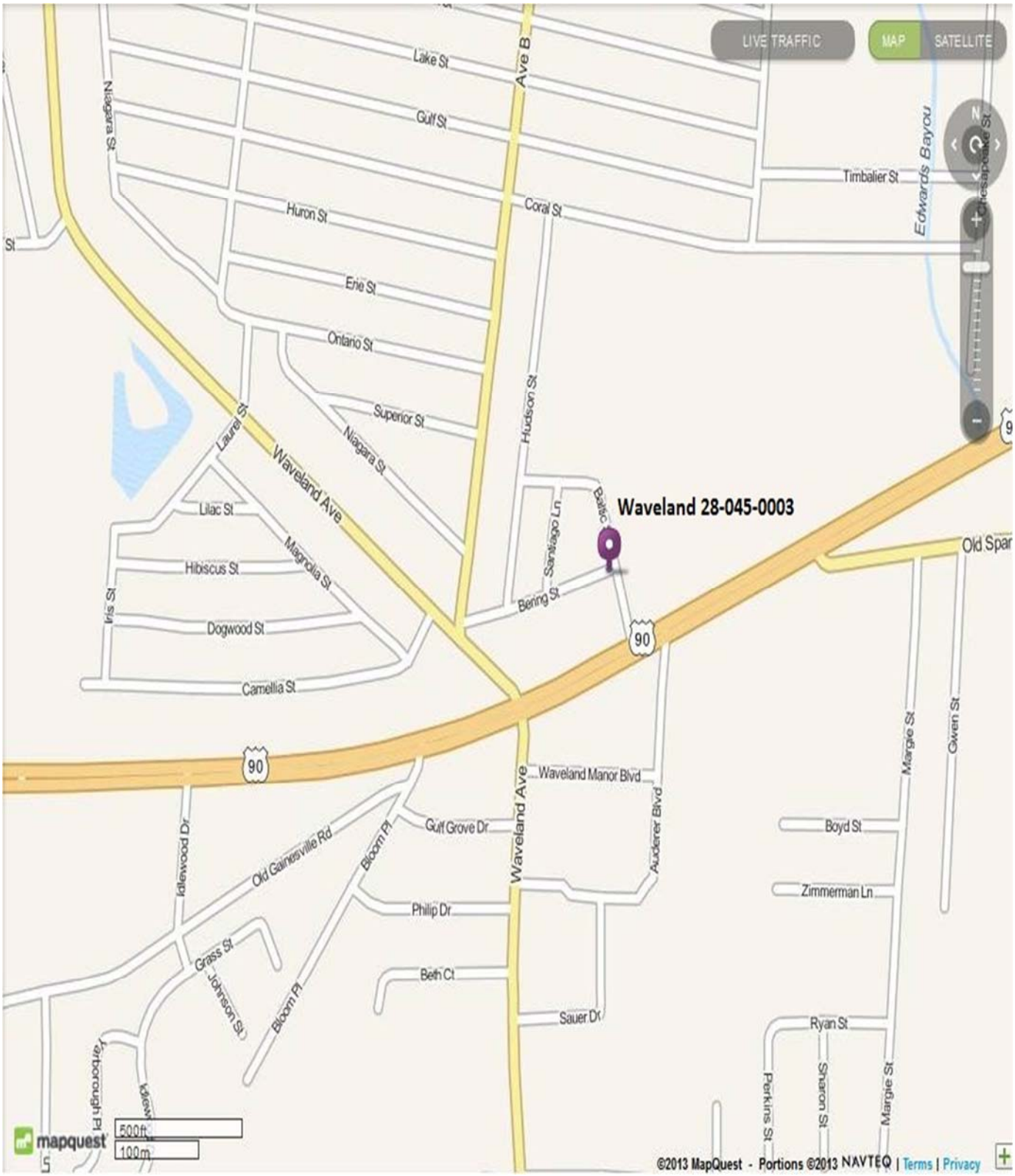
Waveland-North

Waveland-South

Waveland- East

Waveland- West

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
Lilac St
Hibiscus St
Dogwood St
Camellia St
Iris St
Laurel St
Waveland Ave
Magnolia St
Hudson St
Santiago Ln
Baltic
Bering St
Ave B
Niagara St
Coral St
Timbalier St
Edwards Bayou
Chesapeake St
Old Spar
90
Waveland Manor Blvd
Gulf Grove Dr
Auderer Blvd
Boyd St
Zimmerman Ln
Margie St
Gwen St
Idlewood Dr
Old Gainesville Rd
Bloom Pl
Philip Dr
Grass St
Johnson St
Beth Ct
Sauer Dr
Ryan St
Perkins St
Sharon St
Arborough Pl
500 ft
100 m
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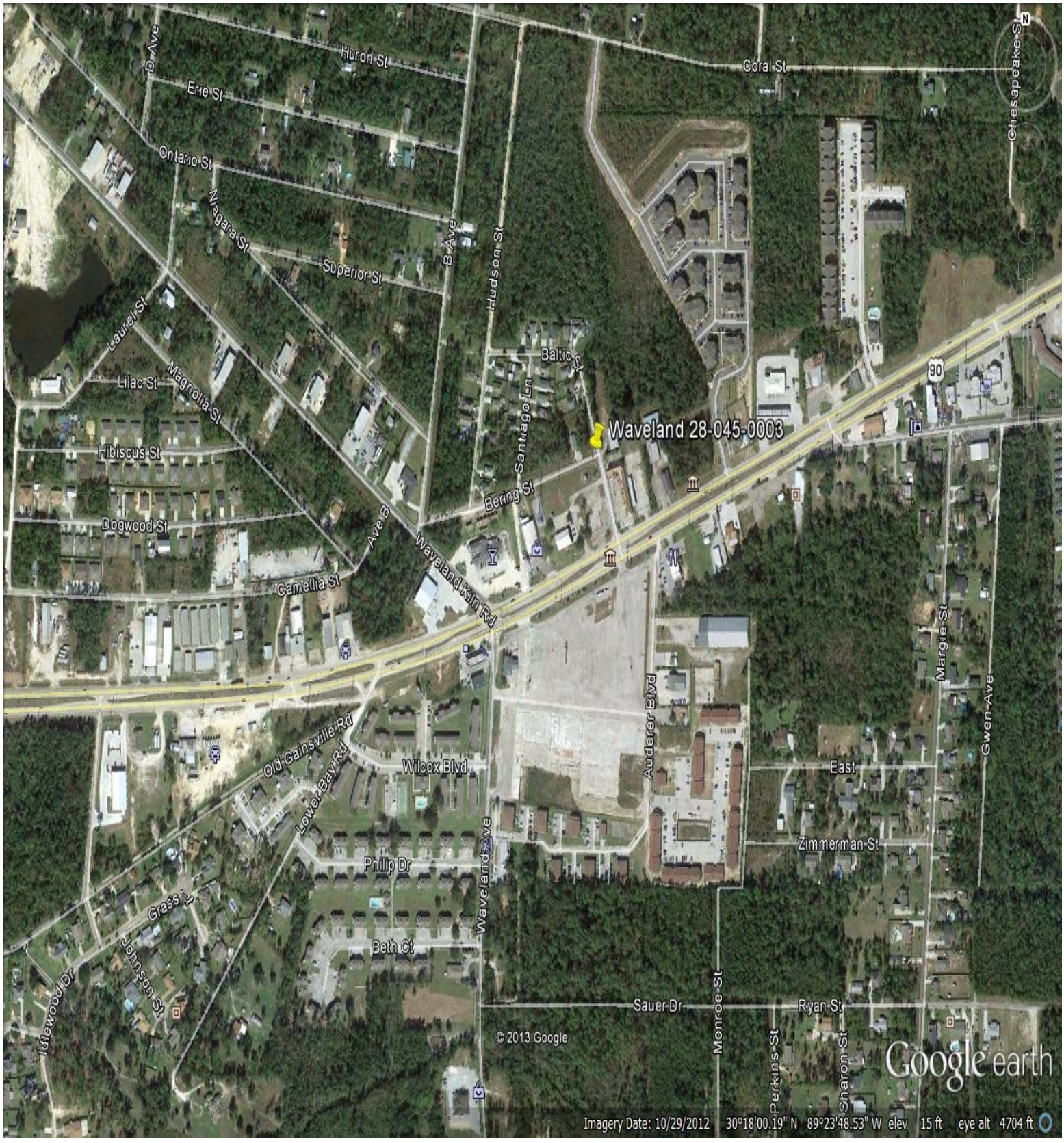

Waveland 28-045-0003
D Ave
Huron St
Erie St
Ontario St
Niagara St
Superior St
Laurel St
Lilac St
Magnolia St
Hibiscus St
Dogwood St
Camellia St
Ave B
Hudson St
Baltic St
Santiago Ln
Bering St
Waveland Kiln Rd
Coral St
Chesapeake St
90
Auderer Blvd
Margie St
Gwen Ave
East
Zimmerman St
Wilcox Blvd
Old Gainsville Rd
Lower Bay Rd
Philip Dr
Waveland Ave
Grass Ln
Johnson St
Idlewood Dr
Beth Ct
Sauer Dr
Ryan St
Monroe St
Perkins St
Sharon St
© 2013 Google
Google earth
Imagery Date: 10/29/2012 30°18'00.19" N 89°23'48.53" W elev 15 ft eye alt 4704 ft

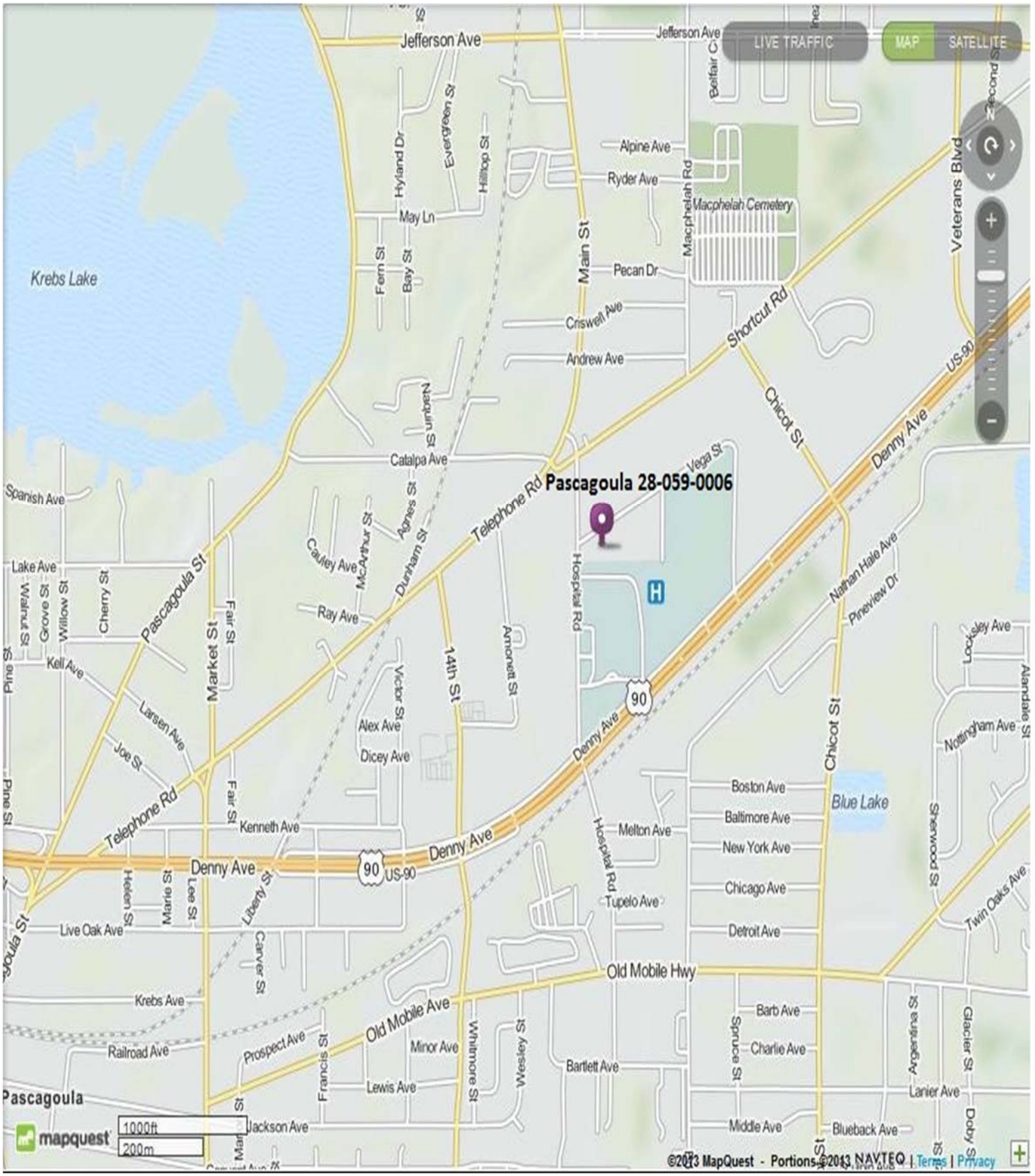
Pascagoula- North

Pascagoula- South

Pascagoula- East

Pascagoula- West

Pascagoula 28-059-0006


Pascagoula 28-059-0006
Jefferson Ave
LIVE TRAFFIC
MAP
SATELLITE
Krebs Lake
Alpine Ave
Ryder Ave
May Ln
Pecan Dr
Criswell Ave
Andrew Ave
Catalpa Ave
Vega St
Spanish Ave
Lake Ave
Kell Ave
Ray Ave
Dicey Ave
Alex Ave
Larsen Ave
Joe St
Kenneth Ave
Live Oak Ave
Krebs Ave
Railroad Ave
Prospect Ave
Lewis Ave
Minor Ave
Bartlett Ave
Middle Ave
Blueback Ave
Lanier Ave
Barb Ave
Charlie Ave
Boston Ave
Baltimore Ave
New York Ave
Chicago Ave
Detroit Ave
Tupelo Ave
Melton Ave
Blue Lake
Nottingham Ave
Twin Oaks Ave
Locksley Ave
Alandale St
Pineview Dr
Nathan Hale Ave
Old Mobile Hwy
Old Mobile Ave
Denny Ave
Telephone Rd
Shortcut Rd
Chicot St
Veterans Blvd
Second St
Macphelah Cemetery
Belfair Cir
Hyland Dr
Evergreen St
Hilltop St
Fern St
Bay St
Main St
Macphelah Rd
Cauley Ave
McArthur St
Agnes St
Dunham St
Hospital Rd
Amoret St
14th St
Victor St
Pascagoula St
Market St
Fair St
Cherry St
Willow St
Grove St
Pine St
Helen St
Marie St
Lee St
Liberty St
Carver St
Francis St
Whitmore St
Wesley St
Spruce St
Argentina St
Glacier St
Sherwood St
Dobry St
Jackson Ave
Pascagoula
90
US-90
mapquest
1000ft
200m
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Criswell Ave
Andrew Ave
Ragsby St
Naquin St
Chicot St
613
Shortcut Rd
Catalpa Ave
Agnes St
Mcarthur St
Vega St
Pascagoula 28-059-0006
90
Durham St
Ray Ave
Denny Ave
Pineview Ave
Daniels St
Amonett St
Hospital St
Nathan Hale Ave
Dicey Ave
Durden St
Eden St
Boston Ave
© 2013 Google
Google earth
Imagery Date: 11/10/2011 30°22'40.91" N 88°32'02.72" W elev 14 ft eye alt 5325 ft

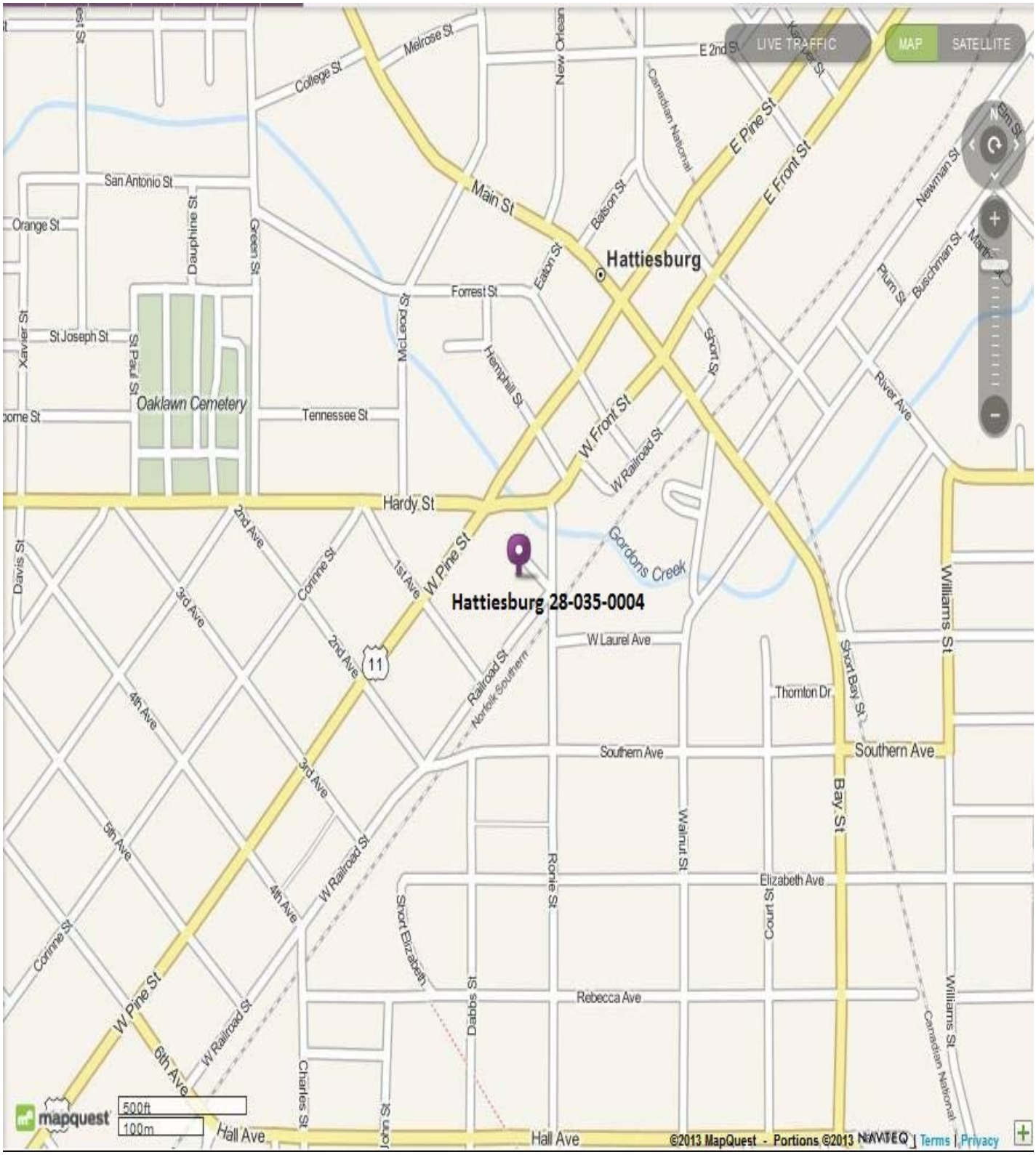
Hattiesburg- North

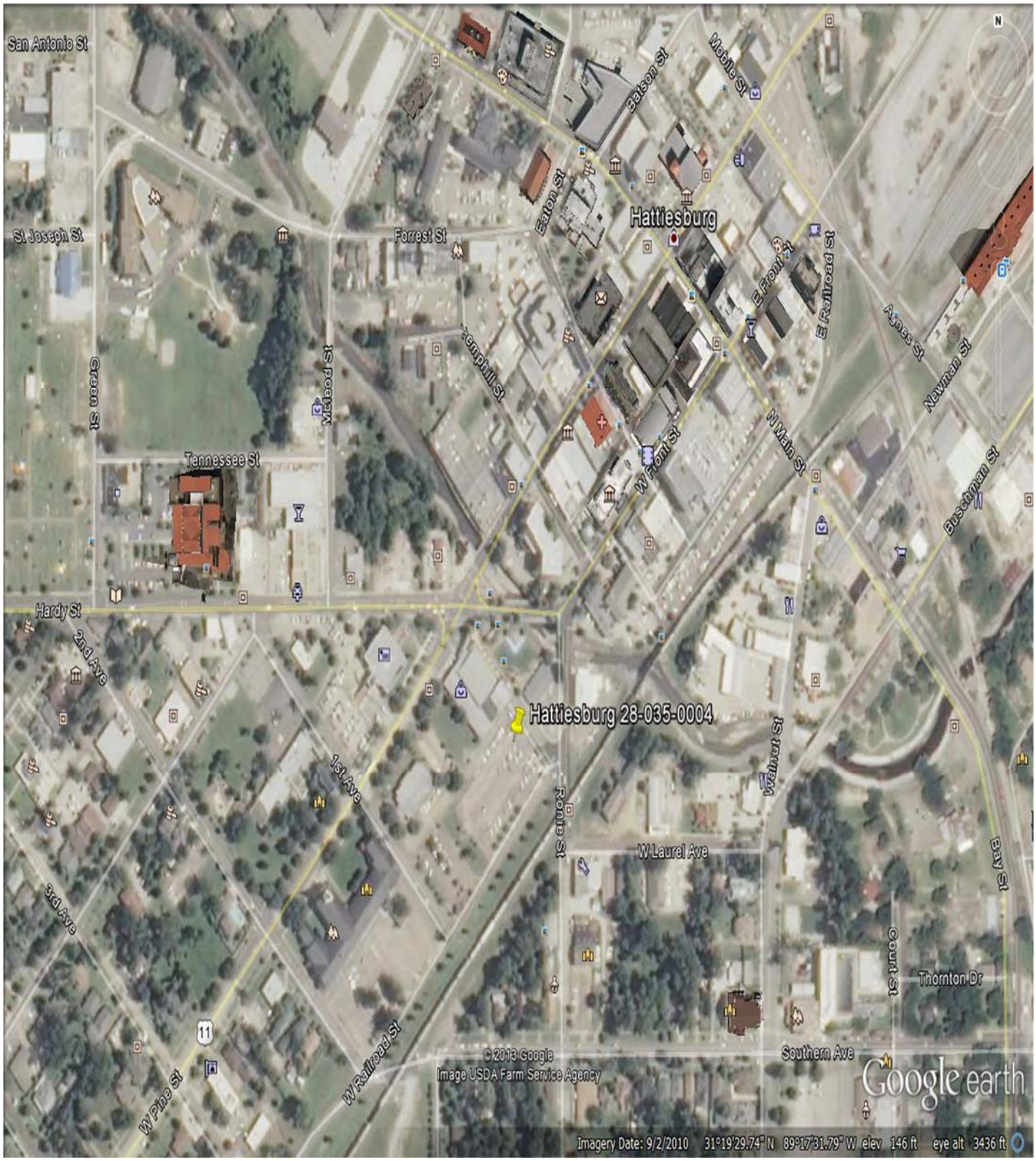
Hattiesburg- South

Hattiesburg- East

Hattiesburg- West

Hattiesburg 28-035-0004


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


San Antonio St
St Joseph St
Forrest St
Eaton St
Hattiesburg
Mobile St
Batson St
E Railroad St
E Front St
Agnes St
Newman St
Buschman St
N Main St
W Front St
Tennessee St
Green St
McLeod St
Temphill St
Hardy St
2nd Ave
1st Ave
3rd Ave
Hattiesburg 28-035-0004
Walnut St
Rouse St
W Laurel Ave
Bay St
Court St
Thornton Dr
Southern Ave
W Railroad St
W Pine St
11
© 2013 Google
Image USDA Farm Service Agency
Google earth
Imagery Date: 9/2/2010 31°19'29.74" N 89°17'31.79" W elev 146 ft eye alt 3436 ft

US Census information

Annual Estimates of the Resident Population for Metropolitan Statistical Areas in the United States and Puerto Rico: April 1, 2010 to July 1, 2019

Geographic Area	April 1, 2010		Population Estimate (as of July 1)									
	Census	Estimates Base	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
United States	**308,745,538**	**308,758,105**	**309,321,666**	**311,556,874**	**313,830,990**	**315,993,715**	**318,301,008**	**320,635,163**	**322,941,311**	**324,985,539**	**326,687,501**	**328,239,523**
In Metropolitan Statistical Area	**263,096,669**	**263,107,172**	**263,659,728**	**265,915,286**	**268,257,389**	**270,477,083**	**272,833,441**	**275,213,195**	**277,549,076**	**279,600,181**	**281,282,516**	**282,828,515**
Gulfport-Biloxi-Pascagoula, MS Metro Area	388,488	388,591	389,324	393,744	396,803	399,940	403,841	406,604	408,865	412,754	414,686	417,665
Hattiesburg, MS Metro Area	162,410	162,418	162,856	164,801	165,994	166,971	167,179	167,873	168,158	167,719	168,292	168,849
Jackson, MS Metro Area	586,320	587,115	588,272	593,409	595,585	596,325	597,357	597,928	599,170	599,358	597,376	594,806
Memphis, TN-MS-AR Metro Area	1,316,100	1,316,102	1,317,489	1,323,741	1,331,396	1,332,114	1,333,432	1,334,790	1,336,204	1,338,582	1,342,497	1,346,045

Note: The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions. All geographic boundaries for the 2019 population estimates series except statistical area delineations are as of January 1, 2019. The Office of Management and Budget's statistical area delineations for metropolitan, micropolitan, and combined statistical areas, as well as metropolitan divisions, are those issued by that agency in September 2018. For population estimates methodology statements, see http://www.census.gov/programs-surveys/popest/technical-documentation/methodology.html.

Suggested Citation:

Annual Estimates of the Resident Population for Metropolitan Statistical Areas in the United States and Puerto Rico: April 1, 2010 to July 1, 2019 (CBSA-MET-EST2019-ANNRES)

Source: U.S. Census Bureau, Population Division

Release Date: March 2020

Annual Estimates of the Resident Population for Combined Statistical Areas in the United States and Puerto Rico: April 1, 2010 to July 1, 2019

Geographic Area	April 1, 2010		Population Estimate (as of July 1)									
	Census	Estimates Base	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
United States	**308,745,538**	**308,758,105**	**309,321,666**	**311,556,874**	**313,830,990**	**315,993,715**	**318,301,008**	**320,635,163**	**322,941,311**	**324,985,539**	**326,687,501**	**328,239,523**
Cleveland-Indianola, MS CSA	63,595	63,536	63,087	62,328	62,404	61,885	61,223	60,107	59,042	57,860	57,326	55,738
Columbus-West Point, MS CSA	80,413	80,427	80,356	80,111	80,001	80,158	79,950	79,702	79,403	78,768	78,164	77,911
Hattiesburg-Laurel, MS CSA	247,233	247,259	247,683	249,590	250,977	252,421	252,111	253,056	253,219	252,657	252,913	253,330
Jackson-Vicksburg-Brookhaven, MS CSA	669,962	670,751	672,002	676,598	678,646	679,339	680,031	679,931	680,503	680,380	677,679	674,340
Memphis-Forrest City, TN-MS-AR CSA	1,344,358	1,344,355	1,345,683	1,351,735	1,359,388	1,359,622	1,360,520	1,361,441	1,362,551	1,364,579	1,368,006	1,371,039
Tupelo-Corinth, MS CSA	198,601	198,593	198,678	199,716	200,955	201,758	201,602	201,856	202,374	202,659	202,516	203,079

Note: The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions. All geographic boundaries for the 2019 population estimates series except statistical area delineations are as of January 1, 2019. The Office of Management and Budget's statistical area delineations for metropolitan, micropolitan, and combined statistical areas, as well as metropolitan divisions, are those issued by that agency in September 2018. For population estimates methodology statements, see http://www.census.gov/programs-surveys/popest/technical-documentation/methodology.html.

Suggested Citation:

Annual Estimates of the Resident Population for Combined Statistical Areas in the United States and Puerto Rico: April 1, 2010 to July 1, 2019 (CSA-EST2019-ANNRES)

Source: U.S. Census Bureau, Population Division

Release Date: March 2020

Regional Monitoring Agreement

SHELBY COUNTY HEALTH DEPARTMENT

LEE HARRIS
MAYOR

LASONYA HARRIS HALL, MPH, PHD
INTERIM DIRECTOR

BRUCE RANDOLPH, MD, MPH
HEALTH OFFICER

Public Health
Prevent. Promote. Protect.

May 11th, 2021

Ms. Michelle Walker Owenby, Air Director
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

Ms. Melissa Fortenberry, Air Division Chief
Mississippi Department of Environmental Quality
Office of Pollution Control, Air Division
P.O. Box 2261
Jackson, MS 39201

Mr. William K. Montgomery, Associate Director
Arkansas Department of Environmental Quality
Office of Air 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.

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,

Larry Smith, Acting Manager
Pollution Control Section
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 $PM_{2.5}$	Collocated $PM_{2.5}$
Shelby County, TN **SCHD**	T640x at NCore with collocated FRM 1 FRM at Alabama Ave. (collocated) and 1 FRM at Near Road	1	1	2
Crittenden County , AR **ADEQ**	1	1		
DeSoto County, MS **MDEQ**		1		

Criteria Air Pollutant MSA monitoring network include:

County	PM_{10}	O_3	$NO_x/NO/NO_2$	CO	SO_2
Shelby County, TN **SCHD**	2 (TEOM at Alabama Ave. and T640x 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.

Equipment List

Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
			OZONE			
89589	OZONE ANALYZER	API	400E	159	Poor	6/1/2003
90740	OZONE ANALYZER	API	400E	1098	Fair	9/1/2006
90741	OZONE ANALYZER	API	400E	1099	Fair	9/1/2006
90742	OZONE ANALYZER	API	400E	1100	Fair	9/1/2006
90743	OZONE ANALYZER	API	400E	1101	Fair	9/1/2006
91211	OZONE ANALYZER	API	400E	1563	Fair	12/31/2007
91212	OZONE ANALYZER	API	400E	1098	Fair	9/1/2006
92174	OZONE ANALYZER	API	T400	131	Good	6/14/2011
92175	OZONE ANALYZER	API	T400	132	Good	6/14/2011
93180	OZONE ANALYZER	API	T400	1858	Good	6/17/2015
93181	OZONE ANALYZER	API	T400	1857	Good	6/17/2015
93182	OZONE ANALYZER	API	T400	1856	Good	6/17/2015
93493	OZONE ANALYZER	API	T400	3304	Good	6/16/2017
93494	OZONE ANALYZER	API	T400	3305	Good	6/16/2017
93495	OZONE ANALYZER	API	T400	3306	Good	6/16/2017
93846	OZONE ANALYZER	API	T400	4206	Good	8/20/2018
93847	OZONE ANALYZER	API	T400	4207	Good	8/20/2018
			SO2			
90923	SO2 ANALYZER	API	100E	68	Poor	6/1/2007
92019	SO2 ANALYZER	API	100EU	128	Good	6/15/2010
93620	SO2 ANALYZER	API	T100U	279	Good	7/12/2017
93621	SO2 ANALYZER	API	T100U	280	Good	7/12/2017
			NOy/NO2/NOx/NO			

-	NOx ANALYZER	API	200E	93	Poor	-
90598	NOx ANALYZER	API	200E	52	Poor	2/1/2006
92020	NOx ANALYZER	API	200E	3523	Poor	6/15/2010
92990	NOx ANALYZER	API	T200	1655	Fair	10/31/2014
93194	NOy ANALYZER	API	T200U	235	Good	10/21/2015
			CO			
93615	CO ANALYZER	API	T300U	379	Good	6/22/2017
			PARTICULATE SAMPLERS			
91054	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220020708	Fair	9/14/2007
91055	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220030708	Fair	9/14/2007
91056	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220040708	Fair	9/14/2007
91057	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220050708	Fair	9/14/2007
91142	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B22026	Fair	11/14/2007
91143	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B2202679	Fair	11/14/2007
91144	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220270709	Fair	11/14/2007
91794	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B225390905	Good	6/12/2009
92143	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B227831104	Good	4/15/2011
92144	SEQUENTIAL AIR SAMPLER	R&P	2025	2025B227481104	Good	4/15/2011
93390	CONTINUOUS PARTICULATE SAMPLER	API	T640	105	Good	1/20/2017
93391	CONTINUOUS PARTICULATE SAMPLER	API	T640	111	Good	1/20/2017
93392	CONTINUOUS PARTICULATE SAMPLER	API	T640	107	Good	1/20/2017
93393	CONTINUOUS PARTICULATE SAMPLER	API	T640	108	Good	1/20/2017
93394	CONTINUOUS PARTICULATE SAMPLER	API	T640	110	Good	1/20/2017
93395	CONTINUOUS PARTICULATE SAMPLER	API	T640	109	Good	1/20/2017
93396	CONTINUOUS PARTICULATE SAMPLER	API	T640	106	Good	1/20/2017
93397	CONTINUOUS PARTICULATE SAMPLER	API	T640	104	Good	1/20/2017

93808	CONTINUOUS PARTICULATE SAMPLER	API	T640	60-S	Good	Jun-18
93676	CONTINUOUS PARTICULATE SAMPLER	API	T640X	286	Good	12/11/2017
-	CONTINUOUS PARTICULATE SAMPLER	API	T640X	-	Good	2020
			FLOW DEVICES			
91596	FLOW METER	BIOS	220-H	114705	Good	8/14/2008
91790	FLOW METER	BGI	Deltacal	781	Good	6/12/2009
92105	FLOW METER	BIOS	220-L	120907	Good	3/15/2011
92220	FLOW METER	BGI	Deltacal	1052	Good	9/15/2011
93370	FLOW METER	BIOS	220-H	151292	Good	9/27/2016
93371	FLOW METER	BIOS	220-L	146603	Good	9/27/2016
93652	FLOW METER	BGI	Tetracal	156675	Good	10/24/2017
93674	FLOW METER	BGI	Deltacal	158052	Good	1/9/2018
N/A	FLOW METER	BGI	Tetracal	600	Good	10/31/2009
N/A	FLOW METER	BGI	Tetracal	603	Good	10/31/2009
94036	FLOW METER	Alicat	Whisper	-	Good	1-22-2020
94037	FLOW METER	Alicat	Whisper	208694	Good	1-22-2020
			DATA LOGGERS			
91050	DATA LOGGER	ESC	8832	A2059	Good	9/14/2007
91051	DATA LOGGER	ESC	8832	A2058	Good	9/14/2007
91134	DATA LOGGER	ESC	8832	A2020	Good	11/14/2007
91135	DATA LOGGER	ESC	8832	A2021	Good	11/14/2007
91136	DATA LOGGER	ESC	8832	A2040	Good	11/14/2007
91137	DATA LOGGER	ESC	8832	A2041	Good	11/14/2007
91788	DATA LOGGER	ESC	8832	A3222K	Good	6/12/2009
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	-
94072	DATA LOGGER	Agilaire	8872	0923	Good	7-24-2019
94077	DATA LOGGER	Agilaire	8872	0924	Good	7-24-2019
94078	DATA LOGGER	Agilaire	8872	0925	Good	7-24-201
-	DATA LOGGER	Agilaire	8872	-	Good	2020
-	DATA LOGGER	Agilaire	8872	-	Good	2020
-	DATA LOGGER	Agilaire	8872	-	Good	2020
			CALIBRATORS			
88441	CALIBRATOR	API	700	740	Fair	7/1/2001
90599	CALIBRATOR	API	700	1278	Fair	2/1/2006
92084	CALIBRATOR	API	T700U	55	Good	-
92849	CALIBRATOR	API	T700U	167	Good	-
92850	CALIBRATOR	API	T700	814	Good	-
93385	CALIBRATOR	API	T703U	122	Good	12/27/2017
93386	CALIBRATOR	API	T703U	123	Good	12/27/2017
93387	CALIBRATOR	API	T703U	3010	Good	12/30/2016
93490	CALIBRATOR	API	T703U	180	Good	6/17/2017
93491	CALIBRATOR	API	T703U	181	Good	6/17/2017
93492	CALIBRATOR	API	T703U	182	Good	6/17/2017
93656	CALIBRATOR	API	T703U	190	Good	11/17/2017
93675	CALIBRATOR	API	T703U	194	Good	12/5/2017
93677	CALIBRATOR	API	T700	3732	Good	1/8/2018
93852	CALIBRATOR	API	T703U	230	Good	Aug-18
93853	CALIBRATOR	API	T703U	231	Good	Aug-18
			ZERO AIR UNITS			
No Inv #	ZERO AIR UNIT	API	701	1365	Fair	-

No Inv #	ZERO AIR UNIT	API	701	1875	Fair	-
83371	ZERO AIR UNIT	Sabio	2020	5930537	Fair	5/1/1993
89694	ZERO AIR UNIT	Sabio	2020	2440703	Fair	8/1/2003
91623	ZERO AIR UNIT	API	701-H	2839	Good	12/12/2008
92435	ZERO AIR UNIT	Sabio	2020	-	Good	8/17/2012
92436	ZERO AIR UNIT	Sabio	2020	-	Good	8/17/2012
92437	ZERO AIR UNIT	Sabio	2020	-	Good	8/17/2012
92486	ZERO AIR UNIT	Sabio	2020	-	Good	8/17/2012
92487	ZERO AIR UNIT	Sabio	2020	-	Good	8/17/2012
93388	ZERO AIR UNIT	API	701H	1653	Good	1/20/2017
93389	ZERO AIR UNIT	API	701H	1654	Good	1/20/2017
93496	ZERO AIR UNIT	API	701H	1684	Good	6/16/2017
93848	ZERO AIR UNIT	API	701H	1744	Good	8/1/2018
93849	ZERO AIR UNIT	API	701H	1745	Good	8/1/2018
93916	ZERO AIR UNIT	API	701	1611	Good	2/1/2019
93917	ZERO AIR UNIT	API	701	1610	Good	2/1/2019
93915	ZERO AIR UNIT	API	701	1609	Good	2/1/2019
			MDEQ 2022 EQUIPMENT LIST			
Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
MISCELLANEOUS						
83364	STRIP CHART RECORDER	Cole Palmer	0555-000	10933	Fair	5/1/1993
83370	STRIP CHART RECORDER	Cole Palmer	0585-0000	10909	Fair	5/1/1993
89684	WEATHER STATION	-	-	C1735	Fair	5/1/2003
91632	WEATHER STATION	Auto Met	-	H10447	Good	1/15/2009
91633	WEATHER STATION	Metone	-	H10709	Good	1/15/2009
91634	WEATHER STATION	Metone	466A	H10448	Good	1/15/2009