



GEOTECHNICAL  
&  
ENVIRONMENTAL  
CONSULTANTS, INC

June 13, 2012

Mr. Jay Ronca  
c/o Vantage Development, LLC  
1544 South Main Street  
Fyfee, AL 35971

**Re: The Villas at Stanford On-Site Noise Study  
GEC Project No. 120392.241**

Dear Mr. Ronca:

GEC initially performed a noise assessment for the above referenced site. The assessment was performed as required by the 2012 DCA Environmental Manual, including the use of the Site DNL Calculator on HUD's website.

The result of the use of this method was combined site noise levels in the areas evaluated that ranged from 71.1 to 74.7dB. These levels would cause the application to lose one (1) point according to the 2012 Qualified Allocation Plan.

The end of the QAP section states: "Not all activities or establishments listed will result in a point deduction depending on the proximity to the property and the impact to the resident population...DCA will determine in its sole and absolute discretion whether or not the undesirable activity will impact the proposed development when completed."

The beginning of the next section, 2. Exceptions to Undesirable Deductions, states: "If the Applicant has knowledge at the time of Application that the conditions that make the property undesirable are temporary and that change or mitigation is imminent (i.e. demolition, rehabilitation, etc.), then sufficient evidence of the change must be submitted in the Application."

Finally, the Noise Assessment Guidelines Chapter 7, The Use of Noise Measurements, states "While it is the preferred procedure to calculate noise levels, there are a few situations where the noise models might not be accurate and it might be better to rely on measurements....Another case might be where you have a unique physical situation that is not accounted for in whatever mathematical model is available."

With the above in mind, and at your request, GEC performed an Onsite Noise Study on June 7 and 8, 2012. The onsite noise study was conducted in accordance with the requirements outlined in the Noise Assessment Guidelines Chapter 7, The Use of Noise Measurements. The results of this assessment of the *actual conditions on the site* were noise levels that range from 53.0 to 62.4 dB and 62.6 DNL for 24 hours. These measurements included railroad traffic at the site on numerous occasions; the measurements indicate the trains had little, if any, effect on the noise readings, which supports our contention that the elevation difference between the railway and the site provided notable mitigation of the railway noise.

The difference between the noise levels as calculated by the Site DNL Calculator and the actual noise levels is significant. We believe the main factor could be that the railroad that exhibits the most influence on the noise calculation, located approximately 371 feet from the nearest point perpendicular to the site, is at a lower elevation than the site. Based on the topographic map of the site, the railroad elevation is approximately 1100 or less while the site is approximately 1110 (field run topography/ground profile) at its nearest point. This existing condition provides an effective natural noise barrier and attenuates the noise level appreciably. Given the above, GEC believes that the notes from the end of section 1 and the beginning of section 2 on page 8 of 31 should be considered. Please accept the attached findings of the Onsite Noise Study as evidence of noise attenuation due to the elevation differences.

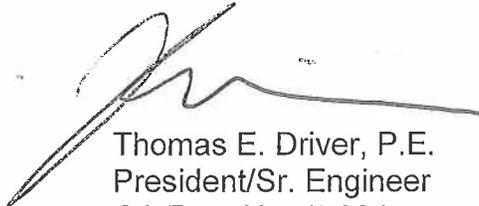
If you have any questions, please do not hesitate to call us.

Sincerely,

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.**



Chris Herrick, CSP  
Industrial Hygiene Specialist  
CSP #18423



Thomas E. Driver, P.E.  
President/Sr. Engineer  
GA Reg. No. 17394

**GEC**



June 13, 2012

**Paul Robinson**  
Vantage Development  
1544 S. Main St.  
Fyffe, AL 35971

RE: The Villas at Stanford  
Kennesaw, GA

Dear Paul,

Noise mitigation measures recommended by the Noise Mitigation Plan dated June 12<sup>th</sup>, 2012 by Geotechnical and Environmental Consultants, Inc. (GEC) will be implemented into the design and construction of The Villas at Stanford in Kennesaw, Georgia. The building will be designed to include the following features per the plan recommendations:

- Continuous acoustical caulking and compressible neoprene weather stripping shall be installed at all door and window openings.
- Tight seals and acoustical caulking shall be installed around all exterior wall penetrations.
- All bathroom and/or kitchen exhaust fans shall have a duct layout that incorporates at least one 90-degree elbow.
- All equipment shall incorporate vibration mounting as appropriate.
- Carpet shall be installed in living room and bedroom spaces.

Required Minimum STC Construction Component Ratings:

- Projected exterior walls will be brick and/or stone in combination with cementitious siding installed over 7/16" OSB, 2x6 wood studs with R-19 Batt insulation. 5/8" thick gypsum board at the interiors. STC rating 45 to 50.
- Vinyl, double glazed windows from All Temp Windows will provide STC ratings from 30 to 39 pending final requirements.
- Roofs will be pitched with asphalt shingles and/or standing seam roofing on an OSB deck with engineered wood trusses and R-38 blow insulation with 5/8" thick gypsum board at the interior. STC rating 41- 45.
- Provide a fence/wall at the NE corner of the building extending to site distance from South Main Street as show on Mitigation plan. This fence/wall will lower the noise at the Gazebo.



Based on the information and recommendations provided in the Noise Mitigation Plan prepared by GEC, it's estimated that the interior noise levels in the interior of the building will fall within the acceptable level of 45 DNL once construction is complete which will included above design features. The owner should contract with a professional acoustical consultant during the building and completion process to ensure that actual nose levels will be within the acceptable level.

Sincerely,

A handwritten signature in blue ink, appearing to read "Michael Voegtle".

**Michael Voegtle, AIA**  
Managing Principal  
DVA Architecture, LLC



June 12, 2012

Mr. Jay Ronca  
c/o The Vantage Group  
1544 South Main Street  
Fyffe, Alabama 35971

**SUBJECT: Wetland & Floodplain Evaluation Letter**  
The Villas at Stanford  
Sardis Street  
Kennesaw, Cobb County, Georgia  
**GEC Job #120392.240**

Dear Mr. Ronca:

Per your request, Geotechnical & Environmental Consultants, Inc. (GEC) has reviewed the National Wetlands Inventory (NWI) map and the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) to determine if these records indicate potential wetland and/or floodplain concerns on the above property. According to the NWI map, no wetland areas were identified on the property; however, wetlands were observed during the site reconnaissance.

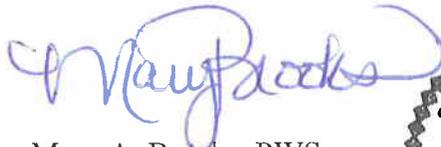
On June 1, 2012, GEC delineated approximately 0.20 acres of wetlands and 141 linear feet of stream on the northeast portion of the subject property. Other stream areas were delineated; however, they were located on the adjacent property to the southeast. The wetland and stream areas on the subject property are located at the toe of the slope and are hydrologically connected to the stream on the adjacent property. Stormwater from Sardis Street and the surrounding properties flow into the stream and wetland area on the subject property. A spring located on the northern property boundary also contributes to the wetland hydrology. The attached site plan indicates the location of the wetland and stream areas on the subject property. No impacts to the wetland or stream areas are anticipated from the proposed project.

The subject property is found on the Cobb County, Georgia Flood Insurance Rate Map (13067C0038G) dated December 16, 2008. According to the FIRM map, the subject property is located in Zone X-white, which is defined as areas determined to be outside the 0.2% annual chance floodplain. GEC, therefore, does not anticipate that a flooding hazard will deter the development of the subject property.

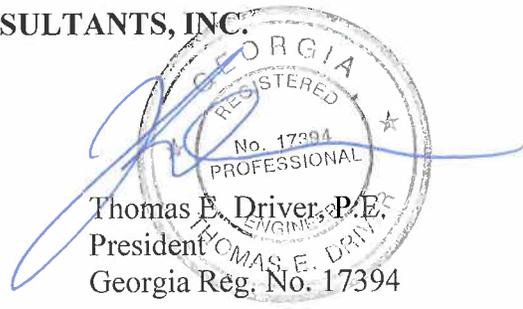
A copy of the NWI, site plan with delineated area, and FIRM maps are included as attachments. GEC appreciates the opportunity to be of service to you. If you have any questions, or need further assistance, please do not hesitate to call.

Sincerely,

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.**



Mary A. Brooks, PWS  
Wetland Services Director



Thomas E. Driver, P.E.  
President  
Georgia Reg. No. 17394



U.S. Fish and Wildlife Service

# National Wetlands Inventory



## Wetlands

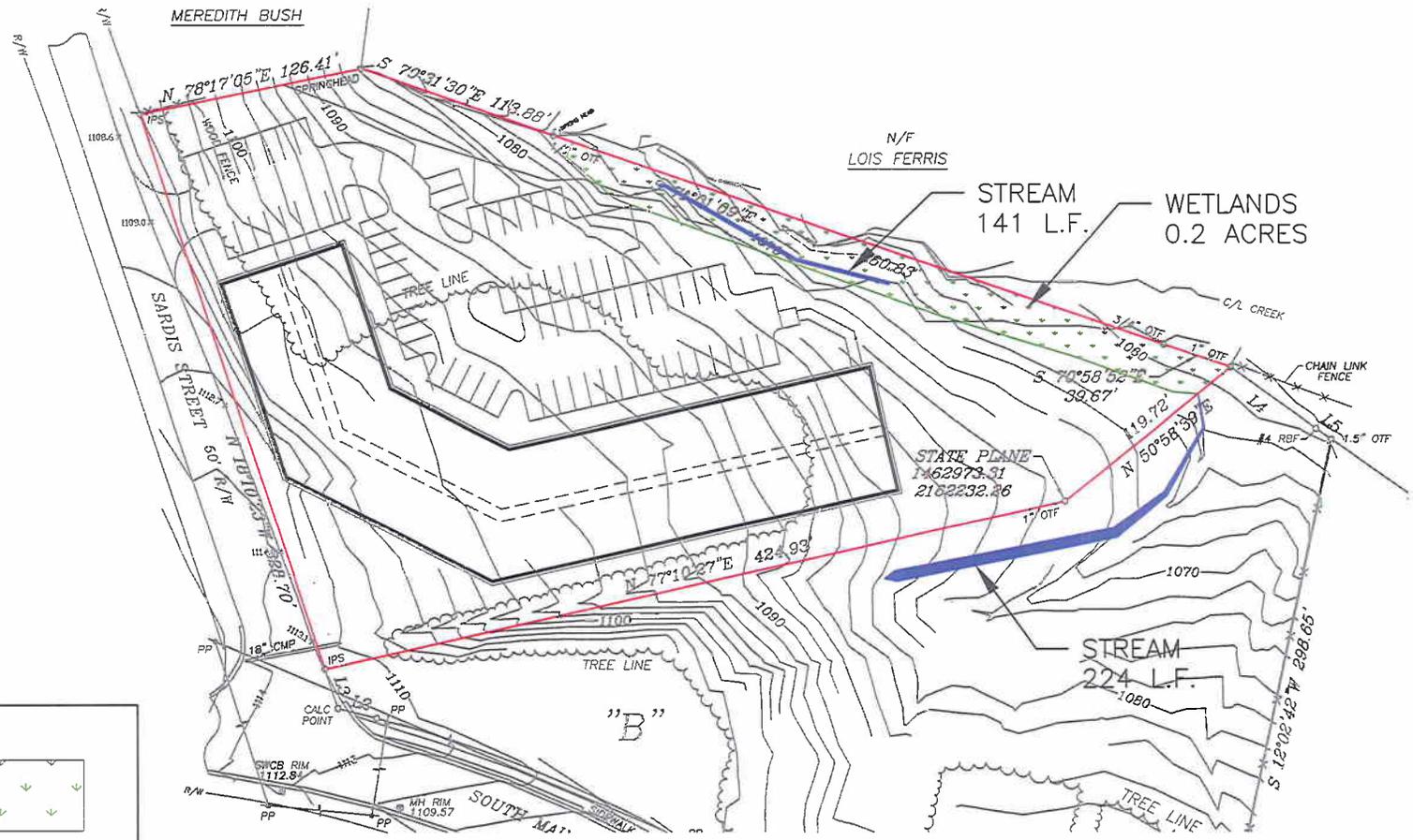
-  Freshwater Emergent
-  Freshwater Forested/Shrub
-  Estuarine and Marine Deepwater
-  Estuarine and Marine
-  Freshwater Pond
-  Lake
-  Rivonne
-  Other

National Wetlands Inventory (NWI) Map  
The Villas @ Stanford  
Kennesaw, Cobb County, Georgia  
GEC Project No. 120392.240  
Approximate Scale: 1"=300'  
Source: U.S. Fish & Wildlife Service

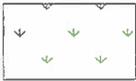
# GEC

GEOTECHNICAL & ENVIRONMENTAL  
CONSULTANTS, INC.

514 Hillcrest Industrial Blvd. Macon, GA 31204 Tel: (478) 757-1606 Fax: (478) 757-1608  
6202 West Hamilton Park Drive Columbus, GA 31909 Tel: (706) 569-0008 Fax: (706) 569-0940

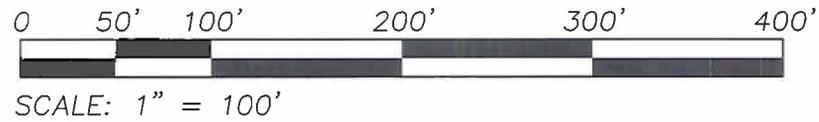


**LEGEND:**

WETLANDS: 

STREAM: 

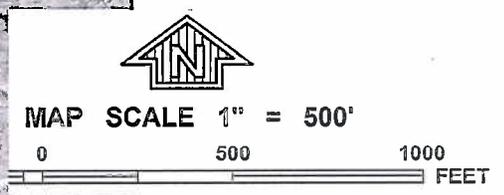
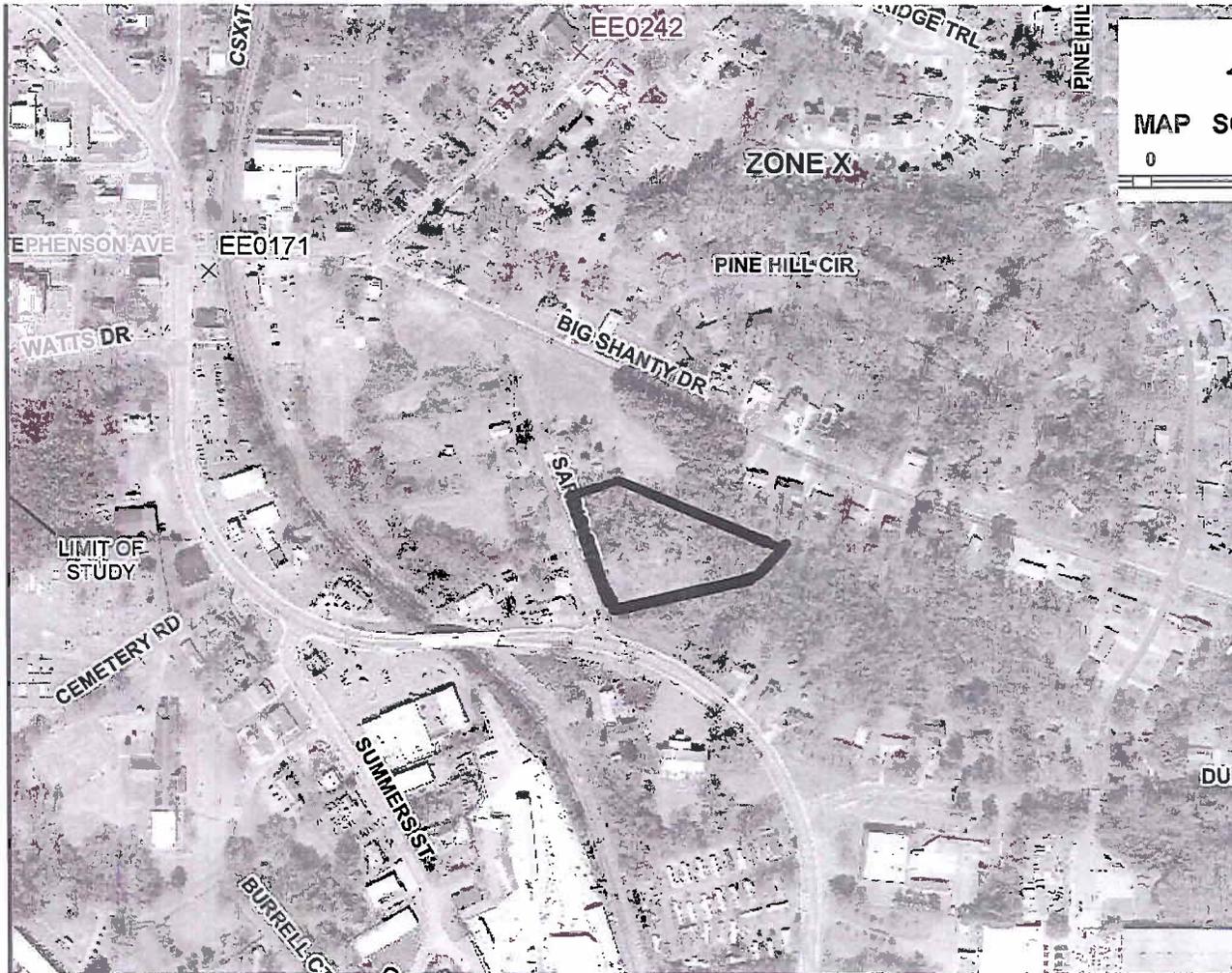
SUBJECT PROPERTY BOUNDARY: 



**Wetland Delineation  
Villas at Stanford  
Kennesaw, County, Georgia  
GEC Project No. 120392.240**

**GEC**  
GEOTECHNICAL  
&  
ENVIRONMENTAL  
CONSULTANTS, INC.

514 HILLCREST INDUSTRIAL BLVD.  
MACON, GEORGIA 31204  
478-757-1606 (Fax) 478-757-1608  
WWW.GECONSULTANTS.COM



PANEL 0038G

**FIRM**  
FLOOD INSURANCE RATE MAP

COBB COUNTY,  
GEORGIA  
AND INCORPORATED AREAS

PANEL 38 OF 252  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COBB COUNTY	13066	C38	G
KENNESAW, CITY OF	13065	038	G

Notes to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER  
13067C0038G

MAP REVISED  
DECEMBER 16, 2008

Federal Emergency Management Agency

**Flood Insurance Rate Map (FIRM)**  
**The Villas @ Stanford**  
 Kennesaw, Cobb County, Georgia  
 GEC Project No. 120392.240  
 Approximate Scale: 1"=500'  
 Source: FEMA Map Service Center Website

**GEC**  
 GEOTECHNICAL & ENVIRONMENTAL  
 CONSULTANTS, INC.

514 Hillcrest Industrial Blvd. Macon, GA 31204 Tel: (478) 757-1606 Fax: (478) 757-1608  
 6202 West Hamilton Park Drive Columbus, GA 31909 Tel: (706) 569-0008 Fax: (706) 569-0940

# LEGEND



**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



**OTHER FLOOD AREAS**

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



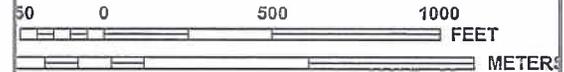
**OTHER AREAS**

- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.

National Flood Insurance Program at 1-800-638-6620.



MAP SCALE 1" = 500'



**ZONE D**

AREAS IN WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE.



**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**



**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet\*
- Base Flood Elevation value where uniform within zone; elevation in feet\*

\* Referenced to the North American Vertical Datum of 1988

- Cross section line
- Transect line
- 87°07'45", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- ~76°00'N 1000-meter Universal Transverse Mercator grid values, zone 16
- 600000 FT 5000-foot grid ticks: Georgia State Plane coordinate system, West zone (FIPSZONE 1002), Transverse Mercator projection
- DX5510 x Bench mark (see explanation in Notes to Users section of this FIRM panel)
- ⊙M1.5 River Mile

MAP REPOSITORY  
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE  
FLOOD INSURANCE RATE MAP  
August 10, 1992

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL  
December 16, 2000 - to change Base Flood Elevations and Special Flood Hazard Areas

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**PROPOSED VILLAS AT STANFORD**  
**SARDIS STREET**  
**KENNESAW, COBB COUNTY, GEORGIA**  
**GEC JOB #120392.240**

**PREPARED FOR**

**THE VILLAS AT STANFORD, L.P.**  
**C/O VANTAGE DEVELOPMENT, LLC**  
**1544 SOUTH MAIN STREET**  
**FYFFE, ALABAMA 35971**  
**ATTN: MR. JAY RONCA**

**PREPARED BY**

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.**  
**514 HILLCREST INDUSTRIAL BOULEVARD**  
**MACON, GEORGIA 31204-3472**  
**(478) 757-1606**

**ISSUE DATE**

**JUNE 13, 2012**

**GEC**

ENVIRONMENTAL CONSULTANT SIGNATURE PAGE FOR PHASE I REPORTS

June 13, 2012

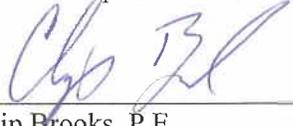
To: Georgia Department of Community Affairs  
60 Executive Park South, NE  
Atlanta, Georgia 30329-2231

Ladies and Gentlemen:

GEC declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professionals* as defined in §312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

6/13/12  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Chip Brooks, P.E.  
Project Engineer  
Ga. Reg. #35020

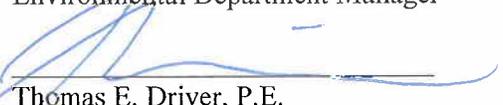
Geotechnical & Environmental Consultants, Inc. (GEC) has performed a Phase I Environmental Site Assessment in conformance with the scope and limitation of 40 C.F.R. Part 312 and most current ASTM standard (ASTM E 1527-2005, Standard Practice for Environmental Site Assessments) of the proposed The Villas at Stanford development at the intersection of Sardis Street and South Main Street, Kennesaw, Georgia, *the subject property*. Any exceptions to, or deletions from this practice are described in Section 2.0 of this report. GEC certifies that the Phase I was performed by a qualified Environmental Professional meeting the requirement set forth in 40 CFR §312.10(b).

6-13-12  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Robert T. Hadden  
Environmental Professional/  
Environmental Department Manager

6-13-12  
\_\_\_\_\_  
Date



  
\_\_\_\_\_  
Thomas E. Driver, P.E.  
President/Senior Engineer  
Ga. Reg. #17394



# TABLE OF CONTENTS

PROPOSED VILLAS AT STANFORD  
SARDIS STREET  
KENNESAW, COBB COUNTY, GEORGIA  
GEC JOB #120392.240

	PAGE #
1.0 EXECUTIVE SUMMARY	1
1.1 Location & Legal Description of Property	3
1.2 Environmental Concerns & Conclusions	4
1.2.1 On-Site	4
1.2.2 Off-Site	4
1.3 Recommendations	4
1.3.1 On-Site	4
1.3.2 Off-Site	4
2.0 INTRODUCTION	4
2.1 Background	4
2.2 Procedures	5
2.3 Significant Assumptions	6
2.4 Qualifications of Personnel/Documentation of Qualifications as an EP	6
2.5 Assessment of Specialized Knowledge or Experience of User &/or EP	7
2.6 Limitations & Exceptions	7
2.7 Special or Additional Conditions or Contract Terms	7
3.0 SITE SETTING	7
3.1 General Description of Site & Vicinity	7
3.1.1 Current Site Use & Description	8
3.1.2 Current Uses of Adjoining Properties	8
3.1.3 Description of Structures, Roads, & other Improvements	8
3.2 Hydrogeology	8
3.2.1 Geologic Setting	8
3.2.2 Surface Drainage	9
3.2.3 Groundwater	9
3.3 Wetlands	9
3.4 Flood Plain/Floodway	10
3.5 State Waters	10
3.6 Endangered Species	10
4.0 REGULATORY INFORMATION	10
4.1 Data Review	10
4.1.1 Standard Environmental Record Sources	11
4.1.1.1 Sites listed in Section 8.2.1 of ASTM E 1527-05 & Exhibit B1	11
4.1.1.2 Orphan/Unmappable Sites	16
4.1.2 Additional Environmental Record Sources	16
4.1.2.1 Local Brownfield Lists	16
4.1.2.2 Local Lists of Landfills/Solid Waste Disposal Sites	16
4.1.2.3 Local Lists of Hazardous Waste/Contaminated Sites	17
4.1.2.4 Local Lists of Registered Storage Tanks	17
4.1.2.5 Local Land Records (for activity & use limitations)	17
4.1.2.6 Records of Emergency Release Reports	17
4.1.2.7 Records of Contaminated Public Wells	17
4.1.2.8 Planning Department Records	17

## TABLE OF CONTENTS (cont'd)

### PROPOSED VILLAS AT STANFORD SARDIS STREET KENNESAW, COBB COUNTY, GEORGIA GEC JOB #120392.240

4.1.2.9	Local/Regional Pollution Control Agency Records	17
4.1.2.10	Local/Regional Water Quality Agency Records	18
4.1.2.11	Local Electric Utility Companies (PCBs)	18
4.1.2.12	Other	18
4.2	Agency Contacts/Records	18
4.2.1	Local Fire Department Official	18
4.2.2	State, Local, or Regional Health/Environmental Agency	19
4.2.3	Local Building Permit Agency Official	19
4.2.4	Local Groundwater Use Permit Agency Official	19
4.3	Interviews	19
4.3.1	Current Key Site Manager, Occupants, or Owner of Property	19
4.3.2	Current Owners or Occupants of Neighboring Properties	20
4.3.3	Past Owners, Occupants, or Operators of Property	20
4.3.4	User(s)	20
4.3.4.1	Title Records	20
4.3.4.2	Environmental Liens	21
4.3.4.3	Specialized Knowledge of User	21
4.3.4.4	Commonly Known/Reasonably Ascertainable Information	21
4.3.4.5	Reason for Performing the Phase I	21
4.3.4.6	Relationship of Purchase Price to Fair Market Value	21
4.3.4.6.1	Purchase Price	21
4.3.4.6.2	Differential between Purchase Price & Market Value	22
4.3.4.6.3	Reasons for any Differential	22
5.0	SITE INFORMATION & USE	22
5.1	Site Reconnaissance Methodology & Limiting Conditions	22
5.2	General Site Setting	22
5.3	Assessment of Commonly Known/Reasonably Ascertainable Information	22
5.4	Current Site Use	22
5.4.1	Storage Tanks	23
5.4.2	Hazardous & Petroleum Products Containers/Drums	23
5.4.3	Heating & Cooling	23
5.4.4	Solid Waste	23
5.4.5	Sewage Disposal/Septic Tanks	23
5.4.6	Hydraulic Equipment	23
5.4.7	Contracted Maintenance Services	23
5.4.8	Electrical Equipment/Polychlorinated Biphenyls (PCBs)	24
5.4.9	Water Supply & Wells	24
5.4.10	Drains & Sumps	24
5.4.11	Pits, Ponds, Lagoons, & Surface Waters	24
5.4.12	Stressed Vegetation	24
5.4.13	Stained Soil or Pavement	24
5.4.14	Odors	24
5.4.15	Utilities/Roadway Easements	24
5.4.16	Chemical Use	24
5.4.17	Water Leaks/Mold/Fungi/Microbial Growth	25
5.4.18	Asbestos	25

## TABLE OF CONTENTS (cont'd)

### PROPOSED VILLAS AT STANFORD SARDIS STREET KENNESAW, COBB COUNTY, GEORGIA GEC JOB #120392.240

5.4.19 Lead-Based Paint	25
5.4.20 Lead in Drinking Water	26
5.4.21 Radon	26
5.4.22 Noise	26
5.4.23 Vapor Encroachment Screening	27
5.4.24 Other Site Reconnaissance Issues	28
5.5 Past Site Use	28
5.5.1 Recorded Land Title Records	28
5.5.2 Environmental Liens	29
5.5.3 Activity & Use Limitations	29
5.5.4 Aerial Photographs & Topographic Maps	29
5.5.5 Sanborn Fire Insurance Maps	30
5.5.6 City Directories	30
5.5.7 Previous Environmental Studies	30
5.5.8 Other	31
5.6 Current Surrounding Land Use	31
5.6.1 North	31
5.6.2 East	31
5.6.3 South	31
5.6.4 West	32
5.7 Past Surrounding Land Use	32
5.7.1 North	32
5.7.2 East	32
5.7.3 South	32
5.7.4 West	32
5.8 Historic Preservation	32
6.0 DATA GAPS	33
6.1 Identification of Data Gaps	33
6.2 Sources of Information Consulted to Address Data Gaps	33
6.3 Significance of Data Gaps	33
7.0 ENVIRONMENTAL CONCERNS	33
7.1 On-Site	33
7.2 Off-Site	33
8.0 CONCLUSIONS & RECOMMENDATIONS	33
8.1 On-Site	36
8.2 Off-Site	36
9.0 DATA REFERENCES	37
10.0 VALUATION REDUCTION	38
10.1 Purchase Price	38
10.2 Interview of Broker regarding Market Value	38
10.3 Differential between Purchase Price & Market Value	38
10.4 Environmental Reasons for any Differential	38

## TABLE OF CONTENTS (cont'd)

### PROPOSED VILLAS AT STANFORD SARDIS STREET KENNESAW, COBB COUNTY, GEORGIA GEC JOB #120392.240

#### APPENDICES

##### APPENDIX A: FIGURES & MAPS

- Figure 1: U.S.G.S. Topographic Map
- Figure 2: National Wetlands Inventory (NWI) Map
- Figure 3: Soil Survey Map
- Figure 4: Flood Insurance Rate Map (FIRM)
- Figure 5: Site Map
- Figure 6: Site Plan
- Figure 7: Radon Map
- Figure 8: 2011 Aerial Photograph

##### APPENDIX B: SITE PHOTOGRAPHS

##### APPENDIX C: HISTORICAL RESEARCH DOCUMENTATION

- EDR Historical Aerial Package  
(Years: 2007, 2006, 2005, 1993, 1988, 1972, 1960, 1955, & 1943)
- Environmental Data Resources (EDR) Sanborn Map Report
- EDR Historical Topographic Maps
- EDR-City Directory Abstract

##### APPENDIX D: DOCUMENTATION FROM TITLE COMPANY/TITLE PROFESSIONAL

- Cobb County Board of Tax Assessors' Parcel Maps and Tax Card
- Chain of Ownership for Environmental Purposes Report
- Copies of Selected Deed Book Records

##### APPENDIX E: NON-SCOPE TESTING

- Lead in soil
- EDR Vapor encroachment screening

##### APPENDIX F: NOISE ASSESSMENT DOCUMENTATION

##### APPENDIX G: REGULATORY ENVIRONMENTAL SEARCH INFORMATION

- Environmental Data Resources (EDR) Environmental Database Report

##### APPENDIX H: RECORD OF COMMUNICATIONS & INTERVIEWS

- Completed DCA User Questionnaire
- Fire Department Letter
- Environmental Health Department letter
- Zoning Letter
- Water and Sewerage Authority letter
- Electrical Service Availability Letter

**TABLE OF CONTENTS (cont'd)**

**PROPOSED VILLAS AT STANFORD  
SARDIS STREET  
KENNESAW, COBB COUNTY, GEORGIA  
GEC JOB #120392.240**

**APPENDIX I: AUTHOR CREDENTIALS, DOCUMENTATION OF QUALIFICATIONS AS  
AN ENVIRONMENTAL PROFESSIONAL**

**Resume: THOMAS E. DRIVER, P.E.**

**Resume: ROBERT T. HADDEN**

**Resume: CHIP BROOKS, P.E.**

**APPENDIX J: OWNER ENVIRONMENTAL QUESTIONNAIRE**

**APPENDIX K: PROPERTY LOG & INFORMATION CHECKLIST**

**APPENDIX L: PROOF OF INSURANCE**

**APPENDIX M: LETTERS OF REFERENCE**

**APPENDIX N: ENVIRONMENTAL CERTIFICATION**

**APPENDIX O: CONSUMER CONFIDENCE REPORT ON WATER QUALITY**

**APPENDIX P: ENDANGERED SPECIES DOCUMENTATION**

**APPENDIX Q: SHPO REVIEW DOCUMENTATION *[if applicable]***

**APPENDIX R: ADDITIONAL HOME REQUIREMENTS *[if applicable]***

**APPENDIX S: OPERATION AND MAINTENANCE MANUAL *[if applicable]***

**APPENDIX T: PREVIOUS ENVIRONMENTAL REPORTS *[if applicable]***

**APPENDIX U: OTHER *[if applicable]***

**Regulatory Status Documentation – Several Documents**

**ATTACHMENT 1, PHASE II REPORT *[if applicable]***

## 1.0 EXECUTIVE SUMMARY

Mr. Jay Ronca with Vantage Development, LLC retained Geotechnical & Environmental Consultants, Inc. (GEC) on behalf of The Villas at Stanford, L.P. to perform a Phase I Environmental Site Assessment (ESA) on the 2.65-Acres, proposed The Villas at Stanford site located at the intersection of Sardis Street and South Main Street; south of Big Shanty Road; east of Sardis Street; and north of South Main Street located in the City of Kennesaw, Cobb County, Georgia. GEC is not affiliated with Mr. Ronca; Vantage Development, LLC; The Villas at Stanford, L.P., or the seller of the subject property.

The DCA Phase I ESA was performed in accordance with the American Society for Testing and Materials (ASTM) E 1527-2005, Standard Practice for Environmental Site Assessments. The ASTM E 1527-2005 is the most current ASTM standard for this work. The Phase I ESA consisted of a site reconnaissance of the subject property, review of applicable and reasonably ascertainable information about the subject property, and interviews with selected officials knowledgeable about the subject property. The Phase I ESA was intended to provide an overview of environmental conditions at the subject property resulting from current and/or past site activities.

While conducting the Phase I ESA of the subject property, GEC followed the 2012 Georgia DCA Environmental Manual, its ESA standard, which requires that the consultant follow the ASTM standard and provide some additional information that exceeds the ASTM requirements. This information addresses items referred to as “non-scope” items in the ASTM Practice, and includes wetlands, state waters, floodways/floodplains, additional public/historic records review, noise, water leaks/mold/fungi/microbial growth, radon, asbestos containing materials (ACMs), lead-based paint (LBP), lead in drinking water, and including (per DCA guidelines) polychlorinated biphenyls (PCB). Other hazards considered for the DCA ESA report include the presence of existing septic tanks or water wells on the subject property or the absence of the availability of a municipal water or sewer system to the subject site.

Interviews and review of reasonably ascertainable records by GEC during the completion of the DCA Phase I ESA did indicate past usage or conditions which resulted in significant environmental concerns that have received regulatory No Further Action Required status. This constitutes historic recognized environmental conditions (RECs), as that term is defined in the referenced ASTM Practice, on the subject property.

The user of this report is encouraged to read the entire report for detailed descriptions of the property and the observations and judgments made by GEC. The user is ultimately responsible for assessing whether the limitations of the ASTM Practice and this project’s scope of work are appropriate to the level of risk the user assumes for the subject property transaction. The following summarizes general information discovered during GEC’s Phase I ESA.

- The site reconnaissance and research revealed no business risk issues in the evaluation of ASTM “non-scope issues”, but there is evidence of historic recognized environmental conditions that would indicate an existing release, **a past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property.

- The subject property previously served as a site for treatment of wood products with creosote. As a result of contamination associated with the former treatment operations, the site was placed on the Georgia Hazardous Site Inventory (HSI). The site was subsequently assessed, and remedial activities were conducted under the direction of the Georgia Hazardous Site Response Program. The prospective purchaser has submitted an application to the Georgia Brownfield Program as a result of the contamination that was found on the subject property. At the time of this report, the Georgia Environmental Protection Division (EPD) has approved the subject property for listing with the Georgia Brownfield Program (See GA EPD letter of 6/12/12 to Paul Robinson Appendix U). The site was also remediated for petroleum constituents in the groundwater as the result of a former release from the Kennesaw General Store, a LUST facility located across Sardis Street from the subject property. As part of the Compliance Status Report (CSR), the soil that was contaminated with creosote was removed from the site, and contamination from the creosote was delineated to Type 1 Risk Reduction Standards (RRS), which are applicable to residential development. Also, vertical and horizontal delineation to background concentrations in the soil and groundwater was performed. Following successful cleanup activities, the petroleum release from the Kennesaw General Store, received a No Further Action Required (NFAR) status from the Georgia Underground Storage Tank Management Program (USTMP) in 2009.
- Since the subject site was removed from the Georgia HSI list, the site's soil contamination was delineated to Type 1 RRS, and the Kennesaw General Store received NFAR status, GEC feels that the site is suitable for the proposed affordable housing development. Proper consideration should be given to applicable construction techniques to maintain the site, as instructed by the Georgia EPD in their letter of acceptance for the Brownfields Corrective Action Plan, to maintain the site in a manner "...that protects humans from exposure to hazardous constituents." A copy of the Brownfield application, the PPCAP, and the Georgia EPD acknowledgement of the application is provided in Appendix U.
- Lead in soil sampling was conducted on the subject site due to pre 1978 structures formerly being on the subject property. The lead detected in the area surface soils (upper one-half inch) was below the Georgia Environmental Protection Division notification concentration for lead (400 mg/kg). Lead in soil is not considered to be a concern for the subject property.
- Based on GEC's review of the readily available historical sources, such as Sanborn Maps, and aerial photographs, the subject property has been historically developed land with structures appearing on the reviewed 1955 to 1993 aerial photographs. The 1943 and 2005 to 2011 aerial photographs show the site as being a mix of wooded/cleared land. The land to the north of the subject property was vacant wooded land on the 1943 to 1955 aerials with heavier residential development occurring in the 1960 aerial. The land to the east has been wooded land with residential properties beyond since the 1943 aerial photograph. Residential properties are shown to the west of the site on the aerials since 1943, with commercial development beyond. The land to the south has been residential since 1943, with heavier commercial development visible in the 1972 aerial. The subject property's chain of title information indicated that the subject property is part of two tracts, which were owned by the Jackson Family who split the property into several

additional tracts. Two of those tracts were re-assembled under Marr & Dawson, who also purchased other tracts. The site was sold in 1996 and passed through a number of owners until deeded to the current owner in 2004.

- The Environmental Data Resources, Inc. (EDR) Report did not directly identify the subject property on any Federal, State, or Local databases however, the Sardis Street Creosote Site, EDR Map Site #2 is located on the subject site. Additionally, the EDR report identified one Federal CERCLIS database site (the Sardis Street Creosote site), one Federal RCRA CORRACTS database site, one Federal RCRA-SQG database site, one GA Non- HSI database site, five LUST database sites, three UST database sites, one AST database site, one SWRCY database site, and one RCRA-NonGen database site within the ASTM E 1527 prescribed search radii of the subject property. However, the only listed database sites considered to have impact or potential impact for the subject site are its own status as the Sardis Street Creosote Site and the adjacent Kennesaw General Store LUST site. The other listed database sites are not considered to be a potential environmental and/or financial concern to the subject site. Refer to Section 4.1.1.1 and Appendix G for the EDR Environmental Database Report.
- Geotechnical & Environmental Consultants, Inc. (GEC) reviewed the National Wetlands Inventory (NWI) map and the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) to determine if these records indicate potential wetland and/or floodplain concerns on the subject property. According to the NWI map, no wetland areas were identified on the property; however, wetlands were observed during the site reconnaissance and were subsequently field delineated by GEC. See Section 3.3 of this report for details.
- According to the FIRM map, the subject property is located in Zone X-white, which is defined as areas determined to be outside the 0.2% annual chance floodplain. GEC, therefore, does not anticipate that a flooding hazard will deter the development of the subject property. See Section 3.4 of this report for details.

### **1.1 Location & Legal Description of the Property**

The subject site, which is 2.65 acres in size, is located at approximately 2774 Sardis Street, near the northeastern intersection of Sardis Street and South Main Street in Kennesaw, Georgia. The subject property is situated south of Big Shanty Road; north of South Main Street; and east of Sardis Street. The subject property consists of a generally vacant previously developed wooded/overgrown tract of land. A site location map is included in Appendix I as Figure 1.

The subject property is located in Land Lot 138 of the 20<sup>th</sup> Land District of Cobb County, Georgia in Tax Parcels 20-0138-0066 and 20-0138-0050. The subject property is legally described in the most current available deed (Deed Book 14018, Page 4147), a copy of which is provided in Appendix D.

## 1.2 Environmental Concerns and Conclusions

### **1.2.1 On-Site**

The site reconnaissance and research revealed no business risk issues in the evaluation of ASTM “non-scope issues”, but there is evidence of historic recognized environmental conditions (REC) that would indicate an existing release, a **past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property. This could include a REC for vapor encroachment (see section 4.1.1.1 and 5.4.23)

### **1.2.2 Off-Site**

The site reconnaissance and research revealed no business risk issues in the evaluation of ASTM “non-scope issues”, but there is evidence of historic recognized environmental conditions that would indicate an existing release, a **past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property from an adjacent property.

## 1.3 Recommendations

### **1.3.1 On-Site**

Based on the findings presented in this report, GEC found no obvious environmental concerns or risks associated with the subject property other than those described herein that are associated with the former Sardis Street Creosote site that have been granted conditional Limitation of Liability as a Brownfields site under the Georgia Hazardous Site Reuse and Redevelopment Act and as such; therefore, GEC recommends no further environmental study of the site at this time except site characterization sampling and additional sampling that may be required to meet the regulatory requirements of the Brownfields Corrective Action Plan submitted to the Georgia Environmental Protection Division (EPD). Refer to Appendix U.

### **1.3.2 Off-Site**

Based on the findings presented in this report, GEC found no obvious environmental concerns regarding off-site properties within the ASTM search radii, except for the past release of petroleum from the Kennesaw General Store adjacent to the subject property to the west that has since received a No Further Action Required regulatory status and thus constitutes a historic REC; therefore, we recommend no further study of potential off-site impacts at this time. Additional study may indirectly be conducted as part of the Brownfields Corrective Action Plan noted above.

## **2.0 INTRODUCTION**

### 2.1 Background

This report describes a Phase I Environmental Site Assessment, prepared by Geotechnical &

Environmental Consultants, Inc. (GEC), for the 2.65-acre proposed The Villas at Stanford situated south of Big Shanty Road; north of South Main Street; and east of Sardis Street in the City of Kennesaw, Georgia. The subject property, which is included in Land Lot 138 of the 20<sup>th</sup> Land District of Cobb County, Georgia, currently contains generally vacant previously developed wooded/overgrown land. A U.S.G.S. topographic map, site map, and a site plan are included in Appendix A as Figures 1, 5, and 6, respectively.

## 2.2 Procedures

The purpose of this Phase I ESA report is to permit the user to satisfy one of the requirements to qualify for the *innocent landowner* defense to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability (also known as one of the "landowner liability protections" or "LLPs"). Completion of the referenced ASTM practice constitutes the "all appropriate inquiry" (AAI) into the previous ownership and uses of the property consistent with good commercial or customary practice as defined at 42 USC §9601 (35)(B).

This Phase I ESA was conducted in accordance with ASTM E 1527-2005 Standard Practice for Environmental Site Assessments. GEC's scope of work for this Phase I ESA was to identify "recognized environmental conditions" to the extent feasible by the processes outlined in Practice E 1527 and in accordance with good commercial and customary practices for conducting an environmental site assessment of a parcel of land with respect to the range of contaminants within the scope of CERCLA and petroleum products.

Practice E 1527 defines "recognized environmental conditions" (RECs) as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property, even under conditions in compliance with (environmental) laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action, if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs.

The scope of Practice E 1527-2005 does not include any testing or sampling of materials (i.e., soil, water, air, or building materials). However, the DCA Phase I ESA standard requires additional elements, which exceed the ASTM requirements (referred to as "non-scope" items), namely wetlands, state waters, floodways/floodplains, additional public/historic records review, noise, water leaks/mold/fungi/microbial growth, radon, ACMs, LBP, lead in drinking water, and per DCA guidelines polychlorinated biphenyls (PCBs). Other hazards considered for the DCA ESA report include the presence of existing septic tanks or water wells on the subject property. These additional requirements are addressed in the body of this report with sampling as described in the appropriate sections.

GEC's methodology for performing environmental evaluations consists of two phases. Phase I involves four components: a records review, site reconnaissance, interviews, and the report of findings. Phase II consists of drilling operations, soil and groundwater sampling, and laboratory analysis of samples as appropriate, based on the results of the Phase I ESA or in response to the special needs of the client. The site reconnaissance included the subject property's grounds and perimeter and observance of adjacent properties from the subject site.

GEC performed each of the four components of the ASTM E 1527 Phase I ESA in accordance with Sections 6.0 through 11.0 of the Practice. The objective of the records review, site reconnaissance, and interviews is to obtain information used to identify recognized environmental conditions in connection with the property. This report generally follows the recommended ASTM format with the additional consideration given to asbestos, LBP, lead in drinking water, radon, wetlands, and polychlorinated biphenyls (PCBs), as required by the Georgia Department of Community Affairs.

### **2.3 Significant Assumptions**

No significant assumptions were made or required while conducting this DCA Phase I ESA.

### **2.4 Qualifications of Personnel/Documentation of Qualifications as an EP**

**Chip Brooks, P.E.** is a **Project Engineer** with the Macon office. Chip graduated from Mercer University with a Bachelor of Science degree in Environmental Engineering. Chip has six years experience in the environmental field, providing project management and environmental consulting services for projects ranging from corrective action plans for leaking underground storage tank (LUST) sites to tank closures to phase I and phase II environmental site assessments. This includes, but is not limited to conducting Type II and Type III monitoring well installation, soil and groundwater sampling, slug testing, elevation surveying, planning and coordinating underground injection of Bioremediation and HVE events, and other field activities. Chip has also conducted groundwater modeling in order to determine plume migration patterns and alternate remedial goals. Also, Chip has instituted, updated and review Spill Prevention Control and Countermeasures (SPCC) Plans and Stormwater Pollution Plans (SWPP). Other environmental work includes consulting services for various landfill projects, including groundwater monitoring and reporting, statistical analysis, and groundwater corrective action plans and methane remediation plans. Chip also has served as project manager for various geotechnical projects, as well. Chip is a registered Professional Engineer in Georgia.

**Robert T. Hadden** serves as the **Environmental Department Manager** for the Macon office. Bob graduated from the University of South Alabama with a bachelor's degree in English in 1981 and has over 30 years of experience in both the geotechnical engineering and environmental fields, providing project management, construction quality control, and geotechnical and environmental consulting services. Construction phase services include materials testing, Geotechnical subsurface investigation, construction quality control, and project management. During the last 20 years, Bob's environmental field experience has included Phase I and Phase II environmental site assessments, regulatory assessment and compliance auditing, field sampling and analysis by immuno-assay, subsurface investigations to assess soil and groundwater contamination, construction monitoring for remediation projects, asbestos surveys, and lead based paint sampling. Bob also has experience in underground storage tank removal, site assessment and remediation. Bob is a member of the Macon Chamber of Commerce, the Environmental Information Association, the American Society for Testing & Materials, and the Georgia Water & Pollution Control Association.

**Thomas E. Driver, P.E.**, is the **President** of GEC and **Managing Senior Engineer** of all offices. Tom graduated from Auburn University with a Bachelor's degree in Civil Engineering in 1983 and has over 28 years of experience in the geotechnical, environmental and construction materials testing fields. Tom is a member of the American Society of Civil Engineers (ASCE), the Georgia Society of Professional Engineers (GSPE), and the Consulting Engineers Council of

Georgia (CECG). He is a past State President of GSPE, a past board member of the Macon Economic Development Commission, and a board member of the Consulting Engineers Council of Georgia. He is a Past President of the Macon Chapter of ASCE and a past president of the GSPE Middle Georgia Branch. Tom was named the 1992 Young Engineer of the Year and the 1996 Professional Engineer of the Year in Private Practice by the Georgia Society of Professional Engineers. Tom is a registered Professional Engineer in Alabama, Florida, Georgia, Kentucky, North Carolina, South Carolina, and Tennessee.

### **2.5 Assessment of Specialized Knowledge or Experience of User &/or EP**

GEC was not provided any specialized knowledge or experience related to recognized environmental conditions in connection with the subject site.

### **2.6 Limitations & Exceptions**

This report is intended for the use of Vantage Development, LLC; The Villas at Stanford, L.P.; and their representatives and/or assigns for their use in evaluating the environmental liability associated with the subject property. Additionally, the Georgia Department of Community Affairs (DCA) and the Georgia Housing and Finance Authority (GHFA) may rely on this report. GEC is not affiliated with Mr. Jay Ronca; Vantage Development, LLC; The Villas at Stanford, L.P.; or the current seller of the subject property.

GEC is not responsible for opinions, conclusions, or recommendations made by others based on the findings in this report. This report and its findings shall not, in whole or in part, be disseminated to any other party, or used by any other party without prior written consent by Geotechnical & Environmental Consultants, Inc. The conclusions of this Phase I Environmental Site Assessment are based on conditions as observed on our site visit and on historical information about the site. Information contained in this report was obtained by means of document review, interviews, and on-site observations. Since no assessment can absolutely deny the existence of hazardous materials, especially surficial environmental assessments with limited or no subsurface sampling, existing hazardous materials can escape detection using the customary methods. Future changes in environmental conditions and site characteristics may occur with the passage of time, in which case, the conclusions of this report may have to be reevaluated.

### **2.7 Special or Additional Conditions or Contract Terms**

There are no special terms and conditions aside from those detailed in the professional services agreement, included with GEC proposal ME-12-5134, under which this scope of work was authorized.

## **3.0 SITE SETTING**

### **3.1 General Description of the Site & Vicinity**

The proposed The Villas at Stanford site, 2.65 acres in size, is located at the intersection of Sardis Street and South Main Street. The subject property is situated south of Big Shanty Road; north of South Main Street; and east of Sardis Street in the City of Kennesaw, Georgia. GEC observed that the subject site is currently undeveloped wooded/overgrown land. The site vicinity

currently consists of residential, commercial, and undeveloped wooded properties. GEC observed residential and wooded property bordering the subject site to the north. Sardis Street borders the subject site to the west with residential and commercial properties beyond. Wooded land borders the property to the south, and residential and religious properties were observed to the south beyond South Main Street. Undeveloped wooded land borders the subject site to the east with residential properties beyond. A site map and a site plan are included in Appendix A as Figures 5 and 6, and a U.S.G.S. topographic map is presented in Appendix A as Figure 1.

### **3.1.1 Current Site Use & Description**

During our reconnaissance of the subject property on May 30, 2012, GEC observed that the subject site is currently a wooded/overgrown tract of land. Miscellaneous debris (wood building materials, scrap metal, surplus concrete, household trash) was observed in the northwestern portion of the subject site. The observed debris is apparent remnants of the former sawmill and lumber creosote treatment operation associated with it. All debris on site should be properly identified and properly disposed in accordance with all local, state, and federal laws. The zoning for the subject site fits under the Central Downtown District which allows for residential development, and city water and sewer is available to serve the subject site.

### **3.1.2 Current Uses of Adjoining Properties**

The site vicinity consists of residential, commercial, religious, and undeveloped wooded properties. During the site reconnaissance of the surrounding area on May 30, 2012, GEC observed residential properties bordering the subject site to the north. Sardis Street borders the subject site to the west with commercial and residential properties beyond. Undeveloped wooded land was observed bordering the subject site to the east, with residential properties beyond. Wooded property borders the site to the south, with religious and residential properties beyond Main Street to the south.

### **3.1.3 Description of Structures, Roads, & Other Improvements**

The subject property is an unoccupied, developed tract of land that has been cleared of its former buildings except for debris and wooden foundation remnants. No other structures or other improvements are located on the subject property. The adjacent improved roadway is Sardis Street, running along the subject site's western boundary and providing access to the subject property from the west. According to various sources, municipal water and sewer are available to serve the subject site.

## **3.2 Hydrogeology**

### **3.2.1 Geologic Setting**

The site is located in the Piedmont Physiographic Province of Georgia. The Piedmont is composed of igneous and metamorphic rocks, most commonly granites, granitic gneiss, and schists. These rocks have undergone extensive alterations, folding and faulting during the mountain building episodes, which produced the Appalachian Mountains and have since experienced a long period of stability. Chemical and physical weathering has produced the present topography. The depth of weathering can vary greatly. The general Piedmont subsurface profile consists of clayey soils near the surface, which grade into silty sands and sandy silts with

depth. Soils beneath the upper clayey zones often retain and exhibit the relic structure (banding, foliation) of the parent rock and are termed saprolite. A zone of weathered rock often separates saprolite from hard relatively unweathered bedrock. The various rock types resist weathering in different degrees depending on their chemical composition, fracturing, jointing, and bedding, so the depth to bedrock is often quite erratic and can vary over a short distance. Also, it is not unusual to find lenses of partially weathered rock and hard rock boulders within the saprolite. Alluvial, or water deposited, soils are present in association with rivers and streams. These soils consist of interlayered sands silts and clay with varying amounts of organic materials.

Groundwater occurs in the Piedmont Region in surficial unconfined aquifers in the soil/saprolite overburden and within the fractured bedrock (fractured rock aquifer). Due to the relatively low yields of these aquifers, groundwater usage in the Piedmont is usually limited to domestic water supply wells. Specific hydrogeologic information was not available for this assessment, and, based on the U.S.G.S. Topographic Quadrangle Map and observations made in the field, GEC anticipates the groundwater flow direction at the subject property most likely moves generally to the east.

### **3.2.2 Surface Drainage**

Based on our review of the U.S.G.S. Topographic Map (Figure 5, Appendix A) and observations made during the site reconnaissance, the surface drainage currently appears to be generally to the east-southeast toward an unnamed pond and tributary drainage feature, which is located approximately 2,000 feet southeast of the subject property.

### **3.2.3 Groundwater**

Site specific hydrogeologic information was not available for this assessment, but based on the general assumption that groundwater flow direction in the upper most aquifer mimics surface water flow, the anticipated groundwater flow direction at this site appears to be generally east toward an unnamed pond, which is located southeast of the subject property.

## **3.3 Wetlands**

GEC reviewed the U.S. Department of the Interior Fish and Wildlife Division National Wetlands Inventory (NWI) Map. The National Wetlands Inventory (NWI) map is a tool used to investigate if wetlands are on a specific property. Wetlands on these maps are usually indicated from the review of aerial photographs, U.S.G.S. Topographic maps, and soils maps. Wetlands are not necessarily field delineated for inclusion on the NWI Map. According to the NWI map, no wetland areas were identified on the property; however, wetlands were observed during the site reconnaissance and were subsequently field delineated by GEC.

On June 1, 2012, GEC delineated approximately 0.20 acres of wetlands and 141 linear feet of stream on the northeast portion of the subject property. Other stream areas were delineated; however, they were located on the adjacent property to the southeast. The wetland and stream areas on the subject property are located at the toe of the slope in this part of the subject property and are hydrologically connected to the stream on the adjacent property. Stormwater from Sardis Street and the surrounding properties flow into the stream and wetland area on the subject property. A spring located on the northern property boundary also contributes to the wetland hydrology. A site plan, attached to the GEC Wetland & Floodplain Letter dated June 12, 2012,

enclosed with this DCA Phase I ESA as a separate document, indicates the location of the wetland and stream areas on the subject property. No impacts to the wetland or stream areas are anticipated from the proposed project. A copy of the NWI Map is presented as Figure 2, Appendix A.

### **3.4 Flood Plain/Floodway**

GEC went to the Federal Emergency Management Agency (FEMA) Map Service Center (MSC) Flood Map Store website at [www.msc.fema.gov/](http://www.msc.fema.gov/) to review a flood map for the subject site. GEC reviewed a copy of the FEMA Flood Insurance Rate Map (FIRM) for this area of Cobb County, Georgia. The subject property is found on FIRM (13067C0038G), dated December 16, 2008. According to the FIRM map, the subject property is located in Zone X-white, which is defined as areas determined to be outside the 0.2% annual chance floodplain. GEC, therefore, does not anticipate that a flooding hazard will deter the development of the proposed The Villas at Stanford development. A copy of the FIRM is presented as Figure 4, Appendix A.

### **3.5 State Waters**

As part of a wetland evaluation, GEC delineated 141 linear feet of stream on the northeastern portion of the subject property. The wetland and stream area located on the subject property is considered a water of the state unless the local issuing authority, in accordance with the State of Georgia guidelines, was to determine otherwise.

### **3.6 Endangered Species**

According to the U.S. Fish and Wildlife Service (USFWS), listed species for Cobb County include ([www.georgiawildlife.org/node/1370](http://www.georgiawildlife.org/node/1370)), 6 animal and 7 plant Federal and State listed species. Although some habitats for the listed species may occur on the subject property, none of the species were observed during the site reconnaissance; therefore, the USFWS was not contacted regarding the subject property. GEC does not anticipate that the protected species and critical habitat issues will factor into a project for this area. Refer to Appendix P for the list of federal and state species.

## **4.0 REGULATORY INFORMATION**

### **4.1 Data Review**

GEC contracted with Environmental Data Resources, Inc. (EDR) to conduct a site specific radius search and examination of reasonably ascertainable Federal, State, and Local regulatory files concerning the site and nearby sites which have been targeted for clean-up or investigation, sites and facilities against which complaints have been filed, or sites on which generators of hazardous waste or regulated substances are located. The EDR Report is dated May 24, 2012. The EDR search meets the requirements of the ASTM E 1527-05 standard. The following lists were included in the records review: (FEDERAL) **NPL, Proposed NPL, Delisted NPL, NPL RECOVERY, CERCLIS, CERC-NFRAP, CORRACTS, RCRA-TSD, RCRA-LQG, RCRA-SQG, ERNS, HMIRS, US ENGINEERING CONTROLS, US INSTITUTIONAL CONTROLS, DOD, FUDS, US BROWNFIELDS, CONSENT, ROD, UMTRA, ODI, TRIS, TSCA, FTTS, SSTS, ICIS, RADINFO, CDL, LUCIS, PADS, MLTS, MINES, FINDS, RAATS, (STATE) SHWS** (includes HSI, the state CERCLIS equivalent), **Non-HSI, STATE**

**LANDFILL, HISTORIC LANDFILL, LUST, UST, GA SPILLS, INSTITUTIONAL CONTROL, DRYCLEANERS, BROWNFIELDS, AIRS, and TIER 2.** The EDR Report also includes **TRIBAL RECORDS: INDIAN RESERVATIONS, INDIAN LUST, and INDIAN UST** and an EDR proprietary database record on **MANUFACTURED GAS PLANTS** (see attached EDR report in Appendix IV for the list of databases, their currency, their definitions, and sources for these records). The radii used in the search for each of the above records are indicated on Page 4 in the EDR Environmental Database Report, and they were specifically designed by EDR to meet the search requirements of the U.S. EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05). Neither a State Engineering Controls database nor state or tribal voluntary cleanups databases are available in Georgia.

GEC assessed the listed sites for potential environmental impacts to the subject property using the following criteria: (1) relative distance between the subject property and the regulated site, (2) topographic features and proximity of the subject property to the regulated site; GEC follows the generally accepted premise that shallow groundwater flow direction can be reasonably expected to mimic surface topography, and (3) common inferences about the nature and relevance of the regulatory listing with regard to the subject property.

#### **4.1.1 Standard Environmental Record Sources**

##### **4.1.1.1 Sites listed in Section 8.2.1 of ASTM E 1527-05 & in Exhibit B1**

The Environmental Data Resources, Inc. (EDR) Report did not directly identify the subject property on any Federal, State, or Local databases however; the Sardis Street Creosote Site, EDR Map Site #2 is located on the subject site. See US EPA Facility Detail Report preceding the EDR database report in Appendix G. Additionally, the EDR report identified one Federal CERCLIS database site (the Sardis Street Creosote site), one Federal RCRA CORRACTS database site, one Federal RCRA-SQG database site, one GA Non- HSI database site, five LUST database sites, three UST database sites, one AST database site, one SWRCY database site, and one RCRA-NonGen database site within the ASTM E 1527 prescribed search radii of the subject property. However, the only listed database sites considered to have impact or potential impact for the subject site is its own status as the Sardis Street Creosote Site and the adjacent Kennesaw General Store LUST site. The other listed database sites are not considered to be a potential environmental and/or financial concern to the subject site. Refer to Appendix G for the EDR Environmental Database Report

**EDR Map Site #1 is General Store**, a LUST, UST and Financial Assurance listed site. It is the subject of several of the documents found in Appendix U that were provided by the Client and/or the Georgia EPD. The General Store is adjacent and upgradient to the subject proposed The Villas at Stanford affordable housing development. It received a No Further Action designation letter dated April 23, 2009 for a confirmed release of petroleum constituents including free product for which the site underwent remediation beginning in or about 1993 and proceeding into 2008. The details of the release and its remediation are provided in documents in Appendix U.

**EDR Map Site # 2 is Sardis Street Creosote Site**, the subject property, and it is listed as a CERCLIS and FINDS site. The subject property previously served as a site for treatment of wood products with creosote. As a result of contamination associated with the former treatment

operations, the site was placed on the Georgia Hazardous Site Inventory (HSI). The site was subsequently assessed, and remedial activities were conducted under the direction of the Georgia Hazardous Site Response Program. The prospective purchaser has submitted an application to the Georgia Brownfield Program as a result of the contamination that was found on the subject property. At the time of this report, the Georgia Environmental Protection Division (EPD) has approved the subject property for listed with the Georgia Brownfield Program. The site was also remediated for petroleum constituents in the groundwater as the result of a former release from the Kennesaw General Store, a LUST facility located across Sardis Street from the subject property. As part of the Compliance Status Report (CSR), the soil that was contaminated with creosote was removed from the site, and contamination from the creosote was delineated to Type 1 Risk Reduction Standards (RRS), which are applicable to residential development. Also, vertical and horizontal delineation to background concentrations in the soil and groundwater was performed. Following successful cleanup activities, the petroleum release from the Kennesaw General Store, received a No Further Action Required (NFAR) status from the Georgia Underground Storage Tank Management Program (USTMP) in 2009.

Since the subject site was removed from the Georgia HSI list, the site's soil contamination was delineated to Type 1 RRS, and the Kennesaw General Store received NFAR status, GEC feels that the site is suitable for the proposed affordable housing development. Proper consideration should be given to applicable construction techniques to maintain the site, as instructed by the Georgia EPD in their letter of acceptance for the Brownfields Corrective Action Plan, to maintain the site in a manner "...that protects humans from exposure to hazardous constituents." As will be noted in the following text, this may mean additional testing and remediation of on-site media and construction techniques that will mitigate the potential for vapor intrusion from possible vapor encroachment from the on-site media that has been impacted. A copy of the Brownfield application, the PPCAP, and the Georgia EPD acknowledgement and approval of the application is provided in Appendix U.

The latest documentation on the site is a May 29, 2012 Prospective Purchaser Corrective Action Plan (PPCAP) for the site prepared by Sailors Engineering Associates, Inc. (SEA) for Vantage Development, LLC, and the PPCAP (the Plan) provides this synopsis of the status of the site and objectives of the Plan:

*The subject site has historic impacts from both petroleum and non-petroleum volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). VOCs and SVOCs were detected in the soil and groundwater in the northern portion of the property. Following an evaluation of the subject property the EPD HSRP (Hazardous Site Response Program) placed the subject property as well as an adjoining property on the Hazardous Sites Inventory (HSI) on December 5, 1994, as the "Sardis Street Creosote Site", HSI # 10347. After remedial efforts, the EPD HSRP on March 31, 2004, removed the subject property from the HSI and on April 23, 2009, the EPD USTMP granted The General Store (Facility ID: 9000423) "No Further Action" status. Based on past property use, additional areas of impact may be discovered during redevelopment and will be remediated to the Type 1 or 2 RRS (Risk Reduction Standards).*

The PPCAP has been submitted to the EPD HSRP as application for Limitation of Liability under the Brownfield Program. Documentation of the receipt of the application was received from the EPD HSRP in a letter dated June 12, 2012. Subsequently, SEA has issued an opinion in a letter dated June 12, 2012 that additional remedial measures are not expected to be required for the subject site, but in order to receive the final limitation of liability letter, a Prospective

Purchaser Compliance Status Report (PPCSR) will be required following redevelopment of the site. SEA indicates, "The PPCSR will include characterization of the site with regard to both soil and groundwater conditions and will include the collection and analysis of both soil and groundwater samples." SEA indicates further that the subject site appears to meet the requirements of the Georgia Brownfield Program for the issuance of a final Limitation of Liability Letter following completion and acceptance of the PPCSR.

The EDR database report findings, including the two significant ones discussed above, and GEC's evaluation comments are summarily presented in the following tabular format.

### IDENTIFIED FACILITIES

Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
General Store Map #1	2742 South Main Street	LUST  UST	Confirmed release received; NFA- Remediation 1993  Closed gas station; all 3 tanks removed from ground in 1999	440 ft WSW	Topographically separated	See above
Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Sardis Street Creosote Site Map #2	Sardis Street	CERCLIS	Does not qualify for the NPL	Subject property	Same elevation	See above
Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Tug Technologies Corporation Map #3	2652 South Main Street	RCRA-SQG	Has previously been a large quantity generator and small quantity generator of various hazardous wastes; received	875 ft SSE	Down-gradient	N

			multiple violations in 2008			
Facility	Address	Program	Status	Distance/Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Big Shanty Superette Map #A4 and A5	2778 South Main Street	LUST  UST Financial Assurance	Confirmed release, NFA-monitoring only 1998 Suspected release, NFA 2010  Active gas station; 3 gas tanks in use	1,088 ft W at intersection of Watts Dr and South Main St	Same elevation; topographically separated	N GW flow away from subject
Facility	Address	Program	Status	Distance/Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Kennesaw Civil War Museum Map #6	2829 Cherokee Street	RCRA-NonGen	No violations found	1,218 ft NNW	Distant; Parallel GW gradient	N
Facility	Address	Program	Status	Distance/Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Kennesaw Texaco Map #7	2820 South Main Street	LUST  UST Financial Assurance	Confirmed release received, NFA 1997  Closed gas station; all tanks removed	1,235 ft NW	Topographically separated; Cross-gradient	N

Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Complete P.C. Recycling Map #8	2641A Kennesaw Due West Road, NW	SWRCY (recycling center)	Collector, processor	1,871 ft SW	Topographically separated; downgradient	N
Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
C W Tire Inc Map #9	2907/2911 North Main Street	LUST UST Financial Assurance	Confirmed release received, NFA-monitoring 2001  Closed gas station; all tanks removed	.8 mi NW	Topographically separated; distant	N
Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Kennesaw Police Dept Map #10	2539 J O Stephenson Avenue	LUST FINDS	Confirmed Release, NFA 2003	.36 mi WNW	Topographically separated; distant	N
Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
FINA Map #11	2650 Cobb Parkway NW	AST	20 tanks	.5 mi WSW	Distant; Topographically separated	N
Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
GA Air National Guard Map #12	1901 McCollum Parkway	CORRACTS RCRA-NonGen FINDS	Corrective action processes terminated in 1997  No violations found	.5 mi ESE	Distant; Topographically separated	N

Facility	Address	Program	Status	Distance/ Direction	Presumed Hydraulic Relation	Potential Concern Y/N
Aero Engines Map #13	2439 McCullum Pkwy	Ga NON- HSI	Mercury contamination 1998	.6 mi ESE	Distant; Topographically separated	N

Based on the relative distance between the subject property and the regulated sites, topographic features, and the nature of certain listings, GEC is of the opinion that, other than as described for Map Sites 1 & 2, these facilities are not RECs to the subject property.

All of the listed database facilities in the EDR report are registered with or under review by regulatory agencies, and liability for any release, if or when it occurs, should remain with the respective site owners.

#### **4.1.1.2 Orphan/Unmappable Sites**

GEC reviewed the twenty "orphan summary" sites, which were not mapped due to poor or inadequate address information, in the EDR Report. GEC reviewed the listed sites and found that:

- Chevron #40012 at 2520 N Cobb Parkway is less than 0.5 mile away and listed on the LUST, UST, and FINDS databases, but is downgradient of the subject property.
- Damanis Food and Fuel at 2515 N Cobb Parkway is less than 0.5 mile away and listed on the LUST, UST, and FINDS databases, but is downgradient of the subject property.
- Sardis Street Creosote Site (the subject site and discussed above) is also listed on the DEL SHWS database (delisted hazardous site)

Based on the relative distance between the subject property and the Orphan sites, topographic features, facility status, and/or hydrologic conditions, GEC is of the opinion that the Orphan facilities (except as noted for the Sardis Street listing) are not RECs to the subject property.

#### **4.1.2 Additional Environmental Record Sources**

##### **4.1.2.1 Local Brownfield Lists**

GEC is not aware of any local Brownfield lists. The Georgia Environmental Protection Division (EPD) maintains the only known database for the state, which is provided by EDR's report and in Appendix G.

##### **4.1.2.2 Local Lists of Landfill/Solid Waste Disposal Sites**

GEC is not aware of any local lists of Landfill/Solid Waste Disposal sites, other than the database maintained by the Georgia EPD, which is provided by EDR's report in Appendix G.

#### **4.1.2.3 Local Lists of Hazardous Waste/Contaminated Sites**

GEC is not aware of any local lists of Hazardous Waste/Contaminated sites, other than the database maintained by the Georgia EPD, which is provided by EDR's report in Appendix G.

#### **4.1.2.4 Local Lists of Registered Storage Tanks**

GEC is not aware of any local lists of Registered Storage Tanks, other than the database maintained by the Georgia EPD, which is provided by EDR's report in Appendix G.

#### **4.1.2.5 Local Land Records (AULs)**

GEC contracted Mr. Frank May, a professional title researcher, for the purpose of researching and establishing a chain of ownership for environmental purposes for the subject property. Mr. May found no activity or use limitations (AULs) filed in the deed records, relating to conditions involving the subject site.

#### **4.1.2.6 Records of Emergency Release Reports**

The EDR Report did not identify the subject property or any adjacent properties on the Georgia Spills databases (see page 4 & 5 of the EDR Report), and GEC is not aware of any Records of Emergency Release Reports, other than the database maintained by the Georgia EPD, which is provided by EDR's report in Appendix G.

#### **4.1.2.7 Records of Contaminated Public Wells**

GEC reviewed the local/regional water agency records information provided on Pages A-14 through A-15 of the EDR Environmental Database Report (see Appendix G). The EDR Local/Regional Water Agency Records provide water well information to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells. No Federal FRDS wells or federal or state U.S.G.S. wells were found on or near the subject property. The EDR report did not indicate any wells on the subject site, and did not indicate records of any groundwater use permits for the subject site. Furthermore, the most current version of the annual water quality report indicated that the Cobb County water supply was in full compliance with all drinking water regulations set forth by EPA and EPD.

#### **4.1.2.8 Planning Department Records**

GEC's client provided zoning information to GEC that indicated that zoning for the subject property is CBD (Central Business District). The zoning letter from the City of Kennesaw indicates that the noted district will allow for the proposed development of up to 74 units in The Villas at Stanford elderly housing complex. A copy of the zoning letter is included in Appendix H.

#### **4.1.2.9 Local/Regional Pollution Control Agency Records**

GEC is not aware of any local Pollution Control Agency records, other than the state/local databases maintained by the Georgia EPD, which is provided by EDR's report in Appendix G.

#### **4.1.2.10 Local/Regional Water Quality Agency Records**

GEC obtained a copy of the 2012 Cobb County Annual Water Quality Report (AWQR), their most current version of the AWQR, which indicated that Cobb County's water supply was in full compliance with all drinking water regulations set forth by EPA and EPD. A copy of the AWQR, verifying this information, is included in Appendix O.

GEC also reviewed the state/local databases maintained by the Georgia EPD, which is provided by EDR's report and discussed in Section 4.1.2.7.

#### **4.1.2.11 Local Electric Utility Companies (PCBs)**

No suspected PCB-containing equipment was observed on the subject property during GEC's site reconnaissance on May 30, 2012, other than pole mounted transformers located in the public rights of way and owned by the local utility provider Georgia Power Company.

GEC received a letter from Mr. Josh Mauldin with Georgia Power, the electrical utility provider for the proposed The Villas at Stanford development. Georgia Power indicated that they have available and will supply electric serve to the subject property. A copy of the power letter is presented in Appendix H.

#### **4.1.2.12 Other**

GEC contracted with EDR to conduct a site specific radius search and examination of reasonably ascertainable Federal, State, and Local regulatory files concerning the site and nearby sites which have been targeted for clean-up or investigation, sites and facilities against which complaints have been filed, or sites on which generators of hazardous waste or regulated substances are located. The additional environmental record sources (Section 8.2.2 of the ASTM E 1527-05 standard) are included in the "Additional Environmental Records" section of the EDR Report (see page 3 of the EDR Report in Appendix G). These additional environmental record sources include local Brownfields, local landfill/solid waste disposal sites, local hazardous waste/contaminated sites, local registered storage tanks, local land records for activity and use limitations (AULs), emergency release reports (Georgia spills), and contaminated public wells. No additional environmental record sources were sought nor deemed necessary.

### **4.2 Agency Contacts/Records**

GEC contacted or attempted to contact the following local agencies for information pertaining to the subject site and the immediate vicinity.

#### **4.2.1 Local Fire Department Official**

GEC faxed an information questionnaire to Fire Chief Sam Heaton with the Cobb County Fire Department on May 25, 2012, and attempted to contact the fire department by telephone on other occasions, but received no response. A copy of the attempted contact by fax is presented in Appendix H.

#### **4.2.2 State, Local, or Regional Health or Environmental Agency**

GEC faxed an information questionnaire to Ms. Jessica Awotona, of the Cobb County Environmental Health Department on May 25, 2012, and attempted to contact the department by telephone on other occasions, but received no response. A copy of the attempted contact by fax is presented in Appendix H.

#### **4.2.3 Local Building Permit Agency Official**

See above in Section 4.1.2.8.

#### **4.2.4 Local Groundwater Use Permit Agency Official**

GEC is not aware of any local Groundwater Use Permit Agency, other than those existed in the state/local databases maintained by the Georgia EPD, which is provided by EDR.

See above in Section 4.1.2.7.

### **4.3 Interviews**

#### **4.3.1 Current Key Site Manager, Occupants, or Owners of Property**

GEC received a completed DCA version of the ASTM Questionnaire from Mr. Paul Robinson, client representative, on June 10, 2012. Mr. Robinson noted that he was not aware of any deed restrictions, engineering or institutional controls, or other activity and use limitations for the property. Mr. Robinson indicated he was not aware of any specialized knowledge or experiences that are material to any potential recognized environmental conditions. He is not aware of any commonly known or reasonably ascertainable information within the local community that is material to any potential recognized environmental conditions in connection with the property. Mr. Robinson does not have in his possession or control title records for the property, and he is not aware of any environmental liens. Mr. Robinson noted that the reason for having the Phase I performed was to support a tax credit assessment and purchase of the property. A copy of the completed DCA version of the ASTM Questionnaire is provided in Appendix H.

GEC received a completed owner environmental questionnaire from Ms. Bonni P. Thompson, property owner, on May 30, 2012. Ms. Thompson indicated that she does not know if her property or any adjoining properties are currently used for industrial and/or manufacturing purposes. Ms. Thompson noted that no plastic or metal drums or stained soil or stressed vegetation exist on the site, but she was unaware as to whether fill dirt or miscellaneous debris existed on the site. She indicated that no tanks currently exist on site, nor had any been removed from the subject site. Ms. Thompson referred to the "No Further Action Letter" (meaning the USTMP and HSRP data and notifications) with regard to notices of violation of environmental laws, the existence of hazardous substances on site, or the occurrence of environmental assessments and other possible environmental issues (See Section 4.1.1.1 and Appendix U).

Ms. Thompson stated that the subject property is not located in the 100-year floodplain and stated that the site does not have the potential to be affected by any of the following: coastal areas protection and management, runway clear zones and accidental potential zones, endangered species, farmland protection, wetlands designated lands, thermal and explosive hazards, toxic chemicals and

radioactive materials, and solid waste management. She also indicated that she did not know if the subject property is not located within 1,000 feet of a major road/highway/freeway, but that it was within 3,000 feet of a railroad, 5 miles of a private/commercial airport, or 15 miles of a military airport. Ms. Thompson indicated the property was being reviewed to support a purchase of the property, and that its purchase price reflected the fair market value. A copy of the completed owner environmental questionnaire is presented in Appendix J.

#### **4.3.2 Current Owners or Occupants of Neighboring Properties**

Since the subject property is not abandoned, no current owners or occupants of neighboring properties were interviewed and none were available. The lack of interviews with the neighboring properties is not considered to be a significant data gap, since significant information outside that available from other interviews and the public record is not expected.

#### **4.3.3 Past Owners, Occupants, or Operators of the Property**

Since sufficient information was available from the current interviews and public records, no past owners, occupants, or operators of the property other than Ms. Thompson were interviewed. In addition, the User did not indicate or provide GEC with any previous owners, occupants, or operators of the property. The lack of interviews with the past owners, occupants, or operators is not considered to be a significant data gap, since significant information outside that available from other interviews and the public record is not expected.

#### **4.3.4 User(s)**

The User Responsibility information obtained from the User(s) of this report or from other sources is detailed in the following text. The primary User (The Villas at Stanford, L.P.) contracted with GEC to provide the information, except where specifically requiring a User response to information needs. The users were identified as The Villas at Stanford, L.P.; Vantage Development, LLC; and Mr. Jay Ronca, who is the designated representative to whom GEC has access, and he provided the User information received on behalf of all parties.

##### **4.3.4.1 Title Records**

Property ownership history sometimes provides an indication of a potential environmental problem at a site. The ownership and deeds reviewed may not include all of the previous owners or occupants that may have or have had an interest in the subject property. The subject site, which is 2.65 acres in size, is located at approximately 2774 Sardis Street, near the intersection of Sardis Street and South Main Street in the City of Kennesaw, Cobb County, Georgia. The subject property, which is situated within Land Lot 138 of the 20<sup>th</sup> Land District of Cobb County, Georgia, consists of generally vacant previously developed wooded/cleared mixed land. The subject property appears on the Cobb County Tax Map as parcels 20-0138-0066 and 20-0138-0050.

GEC contracted Mr. Frank May, a professional title researcher, for the purpose of researching and establishing a chain of ownership for environmental purposes for the subject property. Mr. May provided the chain of ownership information for GEC's review on June 3, 2011. Mr. May's review of the subject property's chain of title information indicated that the subject property, which is part of a two tracts, which were owned by the Jackson Family who split the property

into several tracts. Two of those tracts were re-assembled under Marr & Dawson, who also purchased other tracts. The site was sold in 1996 and passed through a number of owners until deeded to the current owner in 2004.

Mr. May found no environmental liens, activity or use limitations, or engineering controls filed in the deed records, relating to conditions involving the subject site. The review of the deed records and the history of ownership did not indicate previous ownership site activities that would be expected to have created environmental concerns on the subject property (see Section 5.5.1).

Copies of the site's property record cards, tax map, deeds, and plat map, are presented in Appendix D.

#### **4.3.4.2 Environmental Liens**

The property records reviewed by GEC did not indicate any environmental liens or any activity or use limitations, and the Users and/or local public agency contacts reported none.

#### **4.3.4.3 Specialized Knowledge of the User**

GEC was not provided any specialized knowledge or experience related to recognized environmental conditions in connection with the subject site except as related to its history as the Sardis Street Creosote Site and its impact from the adjacent General Store UST site, details of which are reported in Section 4.1.1.1 and others.

#### **4.3.4.4 Commonly Known/Reasonably Ascertainable Information**

GEC was not provided any common knowledge or other information demonstrating recognized environmental conditions in connection with the subject site except as related to its history as the Sardis Street Creosote Site and its impact from the adjacent General Store UST site, details of which are reported in Section 4.1.1.1 and others.

#### **4.3.4.5 Reason for Performing the Phase I**

GEC was asked to perform a DCA Phase I ESA as part of the proposed submittal for tax credits for development of the property for affordable housing in accordance with the ASTM-E 1527-2005 standard to qualify for the innocent landowner defense to CERCLA liability and to identify RECs that could impact the property's financial liability.

#### **4.3.4.6 Relationship of Purchase Price to Fair Market Value**

The User indicated that the purchase price is the same as the fair market value.

##### **4.3.4.6.1 Purchase Price**

The User indicated that the purchase price is the same as the fair market value. Environmental issues were identified while conducting this Phase I ESA as described herein, but GEC has no opinion as to their effect on the property valuation.

#### **4.3.4.6.2 Differential between Purchase Price & Market Value**

The User indicated that the purchase price is the same as the fair market value.

#### **4.3.4.6.3 Reasons for any Differential**

There is no reportedly no differential between the purchase price and the fair market value.

### **5.0 SITE INFORMATION AND USE**

#### **5.1 Site Reconnaissance Methodology & Limiting Conditions**

GEC's methodology for performing the ESA was in accordance with ASTM E 1527-05. No significant limiting conditions were encountered during the site reconnaissance performed on May 30, 2012.

#### **5.2 General Site Setting**

The subject site, which is 2.65 acres in size, is currently generally vacant, previously developed, wooded/overgrown land, located at approximately 2774 Sardis Street, near the intersection of Sardis Street and South Main Street, in the City of Kennesaw, Cobb County, Georgia. GEC's review of all of the readily available historical aerial photographs indicates that the subject property appears to have been developed land from, if not before, 1955 until 1993. The 2005 to 2011 aerials show the site as being generally vacant wooded/overgrown land. From 1955 to 1993, the aerials indicate the presence of several buildings that other research indicates are those of the sawmill with a lumber creosote treatment operation that is further described in Section 4.1.1.1. The reviewed aerial photographs strongly suggest the subject property was undeveloped wooded land prior to the oldest available photograph taken in 1943, so that the lumber mill is its first known use.

GEC observed residential, commercial, and undeveloped wooded properties within the site vicinity.

#### **5.3 Assessment of Commonly Known/Reasonably Ascertainable Information**

GEC's assessment of all commonly known and reasonably ascertainable information about the proposed The Villas at Stanford property indicates there are no recognized environmental conditions associated with the subject site, other than evidence of historic recognized environmental conditions that would indicate an existing release, **a past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property. This information was ascertained from the public record and regulatory information provided by the Client, and Section 4.1.1.1 and Appendix U of this report should be reviewed for details. GEC's assessment of this information leads to the conclusion that the site is suitable for the proposed affordable housing development.

#### **5.4 Current Site Use**

The subject property is currently a generally vacant, previously developed, wooded/overgrown tract of land.

#### **5.4.1 Storage Tanks**

No storage tanks, or indicators of the existence of such tanks (pipes protruding from the ground, mounded earth, or concrete islands), were observed on the subject property during GEC's site reconnaissance.

#### **5.4.2 Hazardous & Petroleum Products Containers/Drums**

No containers/drums of hazardous or petroleum products were observed on the subject property during GEC's site reconnaissance. One metal, 55-gallon Department of Transportation approved drum was observed on the site. The drum was sealed and appeared to be left from the previous environmental sampling investigations, as it had a green "Non-Hazardous Waste" label on it, (though the label information had faded out) that is typically used to contain investigative derived waste such as soil cuttings and/or disposable sampling equipment. The drum should be removed from the site by its generator and properly disposed. It is not judged to represent any additional REC to the property.

#### **5.4.3 Heating & Cooling**

As no on-site structures presently exist on the subject site, heating and cooling issues are not applicable to the subject property.

#### **5.4.4 Solid Waste**

A significant amount of solid waste was observed along the down slope that runs along or near the northern boundary of the subject property. This material is surmised to have been physically placed into the erosion features over the history of the site to act as in-place rip-rap for erosion control. The observed debris did not appear to contain the presence or likely presence of any hazardous substances or petroleum products that would indicate an existing release, a past release, or material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater, or surface water on the subject site. Based on site observations that this material was inert wood, metal, and masonry, testing in these areas was not deemed necessary.

#### **5.4.5 Sewage Disposal/Septic Tanks**

According to various sources, municipal sewer is available to serve the subject site.

#### **5.4.6 Hydraulic Equipment**

No hydraulic equipment or potential hydraulic equipment was observed during GEC's site reconnaissance on May 30, 2012.

#### **5.4.7 Contracted Maintenance Services**

Due to the undeveloped nature of the subject property, contracted maintenance services are not applicable to the site.

#### **5.4.8 Electrical Equipment/Polychlorinated Biphenyls (PCBs)**

No suspected PCB-containing equipment was observed on the subject property during GEC's site reconnaissance on May 30, 2012, other than pole mounted transformers located in the public rights of way and owned by the local utility provider Georgia Power Company.

GEC received a letter from Mr. Josh Mauldin with Georgia Power, the electrical utility provider for the proposed The Villas at Stanford development. Georgia Power indicated that they have available and will supply electric service to the subject property. A copy of the power letter is presented in Appendix H.

#### **5.4.9 Water Supply & Wells**

City water is available to serve the subject site (see documentation of verification of public water/sewer service to the subject property in Appendix H). The presence of water wells is not expected on the subject property, and none were observed.

#### **5.4.10 Drains & Sumps**

No drains or sumps were observed on the property during GEC's site reconnaissance.

#### **5.4.11 Pits, Ponds, Lagoons, & Surface Waters**

No pits, ponds, or lagoons used for industrial purposes, or surface waters were observed on the subject property during GEC's site reconnaissance.

#### **5.4.12 Stressed Vegetation**

No stressed vegetation was observed on the subject property during GEC's site reconnaissance.

#### **5.4.13 Stained Soil or Pavement**

Neither stained soil nor pavement was observed on the subject property during GEC's site reconnaissance.

#### **5.4.14 Odors**

No unusual odors were noted on the subject property during GEC's site reconnaissance.

#### **5.4.15 Utilities/Roadway Easements**

No utility or roadway easements appeared to traverse the subject property during GEC's site visit.

#### **5.4.16 Chemical Use**

Use of chemicals has occurred on the site and it has been assessed and remediated in accordance with Georgia regulatory guidelines for VOCs and SVOCs in soil and groundwater. See Section 4.1.1.1 and Appendix U for further details.

#### **5.4.17 Water Leaks/Mold/Fungi/Microbial Growth**

No on-site structures were observed on the subject property during the site reconnaissance; as a result, the presence of water leaks/mold is not applicable to the subject property.

#### **5.4.18 Asbestos**

During the site reconnaissance on May 30, 2012, no suspect asbestos containing materials (ACM) were observed in the debris or building remnants on site; as a result, the presence of ACM is not applicable to the subject property.

#### **5.4.19 Lead-Based Paint**

During the site reconnaissance, GEC observed only building remnants in the northwestern portion of the subject property. Using historical aerial photographs, GEC observed previously existing on-site, structures that were built prior to 1978 and have been demolished and removed from the site. GEC conducted lead-in-soil sampling around the areas of the previous on-site structures during our assessment on June 1, 2012.

Twelve samples were collected on June 1, 2012; they were collected from around six structures identified from aerial photographs to have previously been on the subject site. Four of the structures were found on the northwestern corner of the property, and two structures were identified on the central southwestern portion of the property. GEC sampled soil at the perimeter of the previously existing buildings on the subject site, with locations being determined by scaling off the aerial photographs. GEC collected the composite soil samples from the drip line/building perimeter from the surface to approximately ½ inch below ground surface (bgs). Soil samples collected from these locations were submitted for laboratory analysis for total lead.

The following soil sampling procedures were used during the soil sampling performed for this assessment:

- Wearing clean disposable nitrile gloves, GEC staff sampled the area of soil within one foot of the edge of the exterior, or the drip line, of the structure;
- Soil samples were collected using a 5 cc disposable syringe with a clean syringe used for discrete samples;
- Composite samples of 3 to 10 aliquots were collected from within the noted area of the structure;
- Each composite sample was mixed together to achieve a representative sample of the total area;
- The top ½ inch of bare soil was sampled; and
- Samples were given identification numbers coinciding with a unit/building number for the respective location;

Samples were collected and submitted to an accredited analytical laboratory, Analytical Environmental Services, Inc. in Atlanta, Georgia under chain of custody protocol.

The lead detected in the area surface soils (upper one-half inch) was below the Georgia

Environmental Protection Division notification concentration for lead (400 mg/kg lead) in all samples. Lead in soil is not considered to be a concern for the subject property.

A detailed sketch of the building/sampling locations is provided in Appendix E along with the sample chain of custody and the analytical report for the lead in soil evaluation.

#### **5.4.20 Lead in Drinking Water**

GEC obtained a copy of the 2012 Cobb County Annual Water Quality Report (AWQR), their most current version of the AWQR, which indicated that that the County's water supply was in full compliance with all drinking water regulations set forth by EPA and EPD. A copy of the AWQR, verifying this information, is included in Appendix O.

GEC also reviewed the state/local databases maintained by the Georgia EPD, which is provided by EDR's report and discussed in Section 4.1.2.7.

#### **5.4.21 Radon**

GEC consulted EPA Publication 402-R-93-030: EPA's Map of Radon Zones for Georgia dated September 1993 to determine the EPA classification of the subject area for radon buildup. The U.S. EPA and the U.S. Geological Survey have evaluated the radon potential in the U.S. and have developed the map to assist National, State, and local organizations to target their resources and to assist building code officials in deciding whether radon-resistant features are applicable in new construction. This map should not be used to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones. The map assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential. Each zone designation reflects the expected average short-term radon measurement that can be measured in a building without the implementation of radon control methods. According to the map, Cobb County, Georgia, is listed in Zone 1, which means "highest potential (>4 pCi/L (picocuries per liter of air)."

According to the radon information provided on page A-18 of the EDR Report presented in Appendix G, the four sites tested in Cobb County were less than 4 pCi/L (0.700 pCi/L average in living area, 1.525 pCi/L in basement). The National Radon Database has been developed by the U.S. Environmental Protection Agency (EPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey.

In accordance with the Georgia DCA Environmental Manual, all new construction of buildings must be in accordance with current EPA requirements for radon resistant construction techniques, including, but not limited to, *Radon Resistant Construction techniques for New Residential Construction: Technical Guidance*, February 1991, EPA 625-291-032 {available from NSCEP by calling (800) 490-9198}, and all new construction *Model Standards and Techniques for Control of Radon in New Residential Buildings*, March 1994, EPA402-R-94-009. Available on line at: <http://www.epa.gov/government/iaq/radon/pubs/newconst.html>, and the new buildings must be tested for radon upon completion of construction.

#### **5.4.22 Noise**

By use of web-based, on-line data and mapping and in accordance with HUD guidance, GEC

found one roadway, one civil airport, one military airfield, and two railways to be potential contributors to noise at the subject site. No other major roads were found within 1,000 feet, no other railways were found within 3,000 feet, no other civil airports were found within five miles, and no other military airfields were found within 15 miles of the subject site.

One major roadway, South Main Street, is located approximately adjacent south of the subject site. McCollum Airport is located 0.5 miles south by southeast of the subject site. Dobbins Air Reserve Base is located approximately 8.4 miles southeast of the subject site. Two CSX Transportation railways are located approximately 300 feet southwest and 1370 feet south by southeast, respectively.

Using the Site DNL Calculator for roadway and railway calculations available on the HUD website, the combined DNL of all potential noise sources, indicates a Normally Unacceptable (per the NAG) exterior day night level from 71.1 dB to 74.7 dB as a result of these potential noise sources.

The relevant noise evaluations and other supporting documentation are presented in Appendix F. GEC found that the HUD noise limitations for interior and exterior locations at the subject site would be exceeded by this listed source, therefore, GEC has prepared a mitigation plan that, when implemented, will reduce noise at the site to acceptable levels. In addition, at the request of the developer, GEC performed a 24-hour on-site noise evaluation using actual noise measurements at the site. The results of this study are also included in Appendix F. It is our opinion that the mitigation plan adequately addresses noise issues at the site. The relevant noise evaluations, mitigation plan, and other supporting documentation are attached.

#### 5.4.23 Vapor Encroachment Screening

GEC also contracted with Environmental Data Resources, Inc. (EDR) to conduct a site specific radius search and examination of reasonably ascertainable Federal, State, and Local regulatory files concerning the site and nearby sites regarding vapor encroachment. The following lists were included, in the records review: **(FEDERAL) NPL, CERCLIS, RCRA-CORRACTS, RCRA-TSD, RCRA generators, and INSTITUTION CONTROLS / ENGINEERING CONTROLS, (STATE and TRIBAL) CERCLIS, LANDFILL / SOLID WASTE DISPOSAL, LUST, UST, INSTITUTION CONTROLS / ENGINEERING CONTROLS, VOLUNTARY CLEANUP, BROWNFIELDS, and OTHER STANDARD ENVIRONMENTAL RECORDS.** The report includes **HISTORICAL USE RECORDS: FORMER MANUFACTURED GAS PLANTS** (see attached EDR report in Appendix E for the list of databases, their currency, their definitions, and sources for these records). The radii used in the search for each of the above records are indicated on Page 3 in the EDR Environmental Database Report, and they were specifically designed by EDR to meet the search requirements of the ASTM Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (E 2600). Neither a State Engineering Controls database, nor state or tribal voluntary cleanups database is available in Georgia.

GEC's methodology for performing this vapor encroachment screening consisted of assessing all the information collected in the Phase I investigation, including information collected in site reconnaissance, interviews, and actual or probable chemical usage on the target property or nearby property.

Tier 1 of the ASTM E 2600-10 Standard Practice for Assessment of Vapor Encroachment Screening on Property Involved in Real Estate Transactions in accordance with Sections 8.1.3.1 through 8.1.3.9 of the Practice was performed during this assessment.

The Vapor Encroachment (VE) Screening Report identified three sites on the State and Tribal leaking storage tank list, one site on the Federal CERCLIS list, one site on the State and Tribal landfill/ solid waste disposal list, and four Other Standard and Environmental Records list within the ASTM E 2600 prescribed search radii of the subject property.

Two of the reviewed listed sites: General Store and Sardis Street Creosote Site have been discussed throughout this report and present potential VE issues that should be mitigated by the PPCAP (See Section 4.1.1.1). Other sites potentially exhibiting VE issues for the subject property: Big Shanty Superette #8, Kennesaw Texaco, and Complete P.C. Recycling do not appear to present a potential concern for vapor encroachment to the subject property.

GEC is of the opinion that vapor encroachment could be an issue of concern in connection with existing or planned structures on the subject property and appropriate vapor barriers should be installed as necessary as determined by the PPCAP site characterization. Refer to Section 4.1.1.1 and Appendix E (EDR Vapor Encroachment Screen) for further details.

#### **5.4.24 Other Site Reconnaissance Issues**

GEC did not identify any other site reconnaissance issues regarding the subject site.

### **5.5 Past Site Use**

#### **5.5.1 Recorded Land Title Records**

Property ownership history sometimes provides an indication of a potential environmental problem at a site. The ownership and deeds reviewed may not include all of the previous owners or occupants that may have or have had an interest in the subject property. The subject site, which is 2.65 acres in size, is located at approximately 2774 Sardis Street, near the intersection of Sardis Street and South Main Street in the City of Kennesaw, Cobb County, Georgia. The subject property, which is situated within Land Lot 138 of the 20<sup>th</sup> Land District of Cobb County, Georgia, consists of generally vacant previously developed wooded/overgrown land. The subject property appears on the Sumter County Tax Map as parcels 20-0138-0066 and 20-0138-0050.

GEC contracted Mr. Frank May, a professional title researcher, for the purpose of researching and establishing a chain of ownership for environmental purposes for the subject property. Mr. May provided the chain of ownership information for GEC's review on June 3, 2012. Mr. May's review of the subject property's chain of title information indicated that the subject property, which is part of a two tracts, which were owned by the Jackson Family who split the property into several tracts. Two of those tracts were re-assembled under Marr & Dawson, who also purchased other tracts. The site was sold in 1996 and passed through a number of owners until deeded to the current owner in 2004.

Mr. May found no environmental liens, activity or use limitations, or engineering controls filed in the deed records, relating to conditions involving the subject site. The review of the deed

records and the history of ownership did not indicate previous ownership site activities that would be expected to have created environmental concerns on the subject property.

Copies of the site's property record card, tax map, deeds, and plat map, are presented in Appendix D.

### **5.5.2 Environmental Liens**

The property records reviewed by GEC did not indicate any environmental liens, and the Users and/or local public agency contacts reported none.

### **5.5.3 Activity & Use Limitations**

The property records reviewed by GEC did not indicate any activity or use limitations, and the Users and/or local public agency contacts reported none.

### **5.5.4 Aerial Photographs & Topographic Maps**

GEC reviewed readily available aerial photographs of the subject property to assist in developing the historic usage of the site. Aerial photographs (2007, 2006, 2005, 1993, 1988, 1972, 1960, 1955, and 1943) were obtained through a commercial database search firm, Environmental Data Resources, Inc. The 2011 aerial photograph was obtained off the Internet at the Google Earth™ web page. A copy of the 2011 aerial photograph appears in Appendix I (Maps/Figures as Figure 8), and copies of the additional historical aerial photographs appear in Appendix C.

The aerial photographs reviewed did not indicate obvious environmental impacts to the site. During GEC's site visit on May 30, 2012, the 2.65-acre tract of land consisted of generally vacant, wooded/overgrown land. GEC's review of all of the readily available historical aerial photographs indicates that the subject property appears to have been developed land on the 1955 to the 1993 aerial photographs with structures appearing on the subject site.

The site vicinity currently consists of residential, commercial and undeveloped wooded properties. The adjacent property in all directions of the subject site was either wooded or residential land 1943 to 1960 aerial photographs. Higher density residential development and commercial development is observed on the 1972 aerial photograph. Increased commercial and residential development is observed in each subsequent aerial photograph.

The subject property can be found on the Kennesaw, Georgia Quadrangle of the U.S.G.S. 7.5-minute series Topographic Map with contour intervals of 40 feet, printed in 1991. A copy of the pertinent portions of this topographic map, showing the subject property and the surrounding area, is presented as Figure 1 in Appendix A. The Environmental Data Resources, Inc. (EDR) Historical Topographic Map Report, which provided additional U.S.G.S. Topographic Maps (1992, 1985, 1973, 1968, 1956, 1909, and 1896), is presented in Appendix C.

The site elevation, as shown on the topographic map, is approximately 1100 feet above mean sea level. Based on review of the topographic map and observations made during the site reconnaissance, the approximate direction of surface drainage flow at the subject property (assuming the flow mimics topography) should generally be to the east-southeast. GEC anticipates that the overall direction of shallow groundwater movement at the subject property

(assuming the flow mimics topography) would be expected to be generally to the east. The down slope of the on-site surface drainage features currently appears to be to the east-southeast toward an unnamed pond, which is located southeast of the subject property.

### **5.5.5 Sanborn Fire Insurance Maps**

GEC contacted Environmental Data Resources, Inc. (EDR) to search for Sanborn Fire Insurance Maps, which were devised by insurance adjusters as early as the 1800s to show the use of properties at specified dates for the purpose of determining the risk of fire. The maps also identify businesses and activities, as well as some construction details, for those properties they cover. The Sanborn Maps are helpful in identifying historical environmental concerns that may have otherwise been unrecorded or left no evidence of their existence.

Sanborn Map coverage does not exist for the target property. The Sanborn Map no coverage report is presented in Appendix C.

### **5.5.6 City Directories**

GEC contracted with EDR, Inc. to search for city directories, which have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Directories are generally divided into three sections; a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive in major cities, it may be spotty for rural areas and small towns. City directory coverage does not exist for the target property or any of the adjoining properties. A copy of the EDR – City Directory Abstract is presented in Appendix C.

The subject property did not show up in the directories, and other vicinity listings were generally residential in nature. Examination of the EDR – City Directory Abstract did not reveal any indications of environmental concerns for the subject property or the surrounding area.

### **5.5.7 Previous Environmental Studies**

The subject property previously served as a site for treatment of wood products with creosote. As a result of contamination associated with the former treatment operations, the site was placed on the Georgia Hazardous Site Inventory (HSI), with facility ID #10347. The site was subsequently assessed, and remedial activities were conducted under the direction of the Georgia Hazardous Site Response Program. The site was also remediated for petroleum constituents in the groundwater as the result of a former release from the Kennesaw General Store, a LUST facility located across Sardis Street from the subject property.

To address the soil and potential groundwater contamination from the creosote operations on the subject property, a Compliance Status Report (CSR) was prepared in 2003. As part of the CSR, the soil that was contaminated with creosote was removed from the site and contamination from the creosote was delineated to Type 1 RRS, which are applicable to residential development. Also, vertical and horizontal delineation to background concentrations in the soil and groundwater was performed. Also, as part of the cleanup activities associated with the petroleum

release from the Kennesaw General Store, a No Further Action Required (NFAR) status was granted from the Georgia Underground Storage Tank Management Program (USTMP) in 2009.

The prospective purchaser has also submitted an application to the Georgia Brownfield Program as a result of the contamination that was found on the subject property. The Brownfield designation has been obtained as part of a development plan for the subject property. Since the site was removed from the Georgia HSI list, the site's soil contamination was delineated to Type 1 RRS, and the Kennesaw General Store received NFAR status, GEC feels that the site is suitable for the proposed development.

As part of the Brownsfield application, the prospective purchaser has also submitted a Prospective Purchaser Corrective Action Plan (PPCAP), in case potential soil contamination is discovered during the development. The PPCAP outlines a plan for sampling and removing any soil that does not meet Type 2 RRS, which will be calculated specifically for the site and are applicable to residential development. With the PPCAP, the prospective purchaser has provided quality assurance to prevent exposure from any potential contamination at the subject site. A copy of the Brownfield application and the PPCAP is provided in Appendix U.

See Appendix U for a copy of various documentation of the subject Sardis Street Creosote Site history, including previous reports, and related regulatory correspondence and environmental site summaries.

#### **5.5.8 Other**

Based on general knowledge of the area, interviews, research of Sanborn maps, U.S.G.S. Topographic Maps, tax records, and interpolation between other aerials, the subject site was undeveloped land prior to the oldest available aerial photograph taken in 1943. The site's development as the saw mill and wood treatment operation is likely the first known use of the property other than for agricultural use.

No additional environmental historical sources, not designated in Sections 8.3.4.1 through 8.3.4.8 of the ASTM E 1527-05 standard, were sought nor deemed necessary to identify past uses of the subject property.

### **5.6 Current Surrounding Land Use**

#### **5.6.1 North**

GEC observed residential land bordering the subject site to the north.

#### **5.6.2 East**

Vacant wooded land borders the subject site to the east with residential properties beyond.

#### **5.6.3 South**

Wooded property borders the site to the south, with religious and residential properties beyond Main Street to the south

#### **5.6.4 West**

Residential and commercial properties border the subject site to the west beyond Sardis Street.

### **5.7 Past Surrounding Land Use**

#### **5.7.1 North**

The land north of the subject site was vacant wooded land on the 1943 aerial with residential properties beyond. On the 1955 aerial, development shows up on the adjacent property to the north. The 1960 to 2011 aerials show further residential development beyond to the north of the subject site.

#### **5.7.2 East**

The land east of the subject site was been predominantly wooded land with sparsely situated residential homesteads beyond on the 1943 to 1960 aerial photographs. The 1972 to 2011 aerial photographs show further residential development beyond adjacent wooded land

#### **5.7.3 South**

The land south of the subject site beyond Main Street has included residential properties since the 1943 aerial photograph and a church by at least the 1960 aerial. Commercial development increases in the 1972 aerial photograph in the southern vicinity of the subject site. Increased commercial and residential development is observed in each subsequent aerial photograph.

#### **5.7.4 West**

The land west of the subject site has included residential properties since the 1943 aerial photograph. Increased commercial and residential development is observed in each subsequent aerial photograph. The General Store operated to the west of the subject property and operated USTs resulting in a release of petroleum to the subject property that has been remediated and received a No Further Action for the release from Georgia EPD.

### **5.8 Historic Preservation**

GEC reviewed information provided on the National Register of Historic Places website in June 2012. According to the reviewed information, two historic sites are within approximately one-fourth mile of the subject property. The closest site is the Summers Street Historic District located 0.18 miles southwest of the subject property, and the second site, "The General" at Big Shanty Museum, is 0.26 miles to the northwest of the subject property. GEC is of the opinion that the development of the proposed apartment complex will not have a negative impact on any historic property in the area. A copy of the map can be found in Appendix Q.

## 6.0 DATA GAPS

### 6.1 Identification of Data Gaps

The only data gaps experienced during the course of this DCA Phase I ESA were in intervals between aerial photographs longer than five years and lack of public agency response with respect to the fire department and health department. Additional knowledge of the area, interviews, research of Sanborn maps, tax records, and interpolation between aerials indicates no significant development took place in the intervals. Therefore, the lack of aerial photograph for every five years does not constitute as a significant data gap. Furthermore, experience indicates that information that might be provided by either the fire department or health departments would not alter the conclusions of this report and therefore the lack of response from these agencies is not a significant data gap.

### 6.2 Sources of Information Consulted to Address Data Gaps

Based on the research information, the data gaps identified are not considered to be significant. No other significant data gaps were experienced during the course of this DCA Phase I ESA.

### 6.3 Significance of Data Gaps

No significant data gaps were experienced during the course of this DCA Phase I ESA.

## 7.0 ENVIRONMENTAL CONCERNS

### 7.1 On-Site

The site reconnaissance and research revealed no business risk issues in the evaluation of ASTM “non-scope issues”, but there is evidence of historic recognized environmental conditions that would indicate an existing release, **a past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property.

### 7.2 Off-Site

The site reconnaissance and research revealed no business risk issues in the evaluation of ASTM “non-scope issues”, but there is evidence of historic recognized environmental conditions that would indicate an existing release, **a past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property from an adjacent property.

## 8.0 CONCLUSIONS AND RECOMMENDATIONS

GEC has completed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 and the Georgia DCA Environmental Site Assessment Standard on the 2.65-acre proposed The Villas at Stanford site at approximately 2774 Sardis Street, near the intersection of Sardis Street and South Main Street in the City of Kennesaw,

Cobb County, Georgia.

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E 1527 of the proposed The Villas at Stanford site at the intersection of Sardis Street and South Main Street, Kennesaw, Georgia, and legally described as contained in Land Lot 138 of the 20<sup>th</sup> Land District of Cobb County, Georgia, the *property*. Any exceptions to, or deletions from this practice are described in Section 2.0 of this *report*. This assessment has revealed evidence of *recognized environmental conditions* in connection with the *property*. The condition is from past releases that have received No Further Action Status, so the condition could be termed a Historic REC.

The DCA Phase I ESA was performed in accordance with the American Society for Testing and Materials (ASTM) E 1527-2005, Standard Practice for Environmental Site Assessments. The ASTM E 1527-2005 is the most current ASTM standard for this work. The Phase I ESA consisted of a site reconnaissance of the subject property, review of applicable and reasonably ascertainable information about the subject property, and interviews with selected officials knowledgeable about the subject property. The Phase I ESA was intended to provide an overview of environmental conditions at the subject property resulting from current and/or past site activities.

While conducting the Phase I ESA of the subject property, GEC followed the 2012 Georgia DCA Environmental Manual, its ESA standard, which requires that the consultant follow the ASTM standard and provide some additional information that exceeds the ASTM requirements. This information addresses items referred to as “non-scope” items in the ASTM Practice, and includes wetlands, state waters, floodways/floodplains, additional public/historic records review, noise, water leaks/mold/fungi/microbial growth, radon, asbestos containing materials (ACMs), lead-based paint (LBP), lead in drinking water, and including (per DCA guidelines) polychlorinated biphenyls (PCB). Other hazards considered for the DCA ESA report include the presence of existing septic tanks or water wells on the subject property or the absence of the availability of a municipal water or sewer system to the subject site.

Interviews and review of reasonably ascertainable records by GEC during the completion of the DCA Phase I ESA did indicate past usage or conditions which resulted in significant environmental concerns that have received regulatory No Further Action Required status. This constitutes historic recognized environmental conditions (RECs), as that term is defined in the referenced ASTM Practice, on the subject property.

The user of this report is encouraged to read the entire report for detailed descriptions of the property and the observations and judgments made by GEC. The user is ultimately responsible for assessing whether the limitations of the ASTM Practice and this project’s scope of work are appropriate to the level of risk the user assumes for the subject property transaction. The following summarizes general information discovered during GEC’s Phase I ESA.

- The site reconnaissance and research revealed no business risk issues in the evaluation of ASTM “non-scope issues”, but there is evidence of historic recognized environmental conditions that would indicate an existing release, a **past release** or a material threat of a release of hazardous substances or petroleum products on the property or into the ground, groundwater or surface water of the property.

- The subject property previously served as a site for treatment of wood products with creosote. As a result of contamination associated with the former treatment operations, the site was placed on the Georgia Hazardous Site Inventory (HSI). The site was subsequently assessed, and remedial activities were conducted under the direction of the Georgia Hazardous Site Response Program. The prospective purchaser has submitted an application to the Georgia Brownfield Program as a result of the contamination that was found on the subject property. At the time of this report, the Georgia Environmental Protection Division (EPD) has approved the subject property for listing with the Georgia Brownfield Program (See GA EPD letter of 6/12/12 to Paul Robinson Appendix U). The site was also remediated for petroleum constituents in the groundwater as the result of a former release from the Kennesaw General Store, a LUST facility located across Sardis Street from the subject property. As part of the Compliance Status Report (CSR), the soil that was contaminated with creosote was removed from the site, and contamination from the creosote was delineated to Type 1 Risk Reduction Standards (RRS), which are applicable to residential development. Also, vertical and horizontal delineation to background concentrations in the soil and groundwater was performed. Following successful cleanup activities, the petroleum release from the Kennesaw General Store, received a No Further Action Required (NFAR) status from the Georgia Underground Storage Tank Management Program (USTMP) in 2009.
- Since the subject site was removed from the Georgia HSI list, the site's soil contamination was delineated to Type 1 RRS, and the Kennesaw General Store received NFAR status, GEC feels that the site is suitable for the proposed affordable housing development. Proper consideration should be given to applicable construction techniques to maintain the site, as instructed by the Georgia EPD in their letter of acceptance for the Brownfields Corrective Action Plan, to maintain the site in a manner "...that protects humans from exposure to hazardous constituents." A copy of the Brownfield application, the PPCAP, and the Georgia EPD acknowledgement and approval of the application is provided in Appendix U.
- Lead in soil sampling was conducted on the subject site due to pre 1978 structures formerly being on the subject property. The lead detected in the area surface soils (upper one-half inch) was below the Georgia Environmental Protection Division notification concentration for lead (400 mg/kg). Lead in soil is not considered to be a concern for the subject property.
- Based on GEC's review of the readily available historical sources, such as Sanborn Maps, and aerial photographs, the subject property has been historically developed land with structures appearing on the reviewed 1955 to 1993 aerial photographs. The 1943 and 2005 to 2011 aerial photographs show the site as being a mix of wooded/cleared land. The land to the north of the subject property was vacant wooded land on the 1943 to 1955 aerials with heavier residential development occurring in the 1960 aerial. The land to the east has been wooded land with residential properties beyond since the 1943 aerial photograph. Residential properties are shown to the west of the site on the aerials since 1943, with commercial development beyond. The land to the south has been residential since 1943, with heavier commercial development visible in the 1972 aerial. The subject property's chain of title information indicated that the subject property is part of two tracts, which were owned by the Jackson Family who split the property into several

additional tracts. Two of those tracts were re-assembled under Marr & Dawson, who also purchased other tracts. The site was sold in 1996 and passed through a number of owners until deeded to the current owner in 2004.

- The Environmental Data Resources, Inc. (EDR) Report did not directly identify the subject property on any Federal, State, or Local databases however, the Sardis Street Creosote Site, EDR Map Site #2 is located on the subject site. Additionally, the EDR report identified one Federal CERCLIS database site (the Sardis Street Creosote site), one Federal RCRA CORRACTS database site, one Federal RCRA-SQG database site, one GA Non- HSI database site, five LUST database sites, three UST database sites, one AST database site, one SWRCY database site, and one RCRA-NonGen database site within the ASTM E 1527 prescribed search radii of the subject property. However, the only listed database sites considered to have impact or potential impact for the subject site are its own status as the Sardis Street Creosote Site and the adjacent Kennesaw General Store LUST site. The other listed database sites are not considered to be a potential environmental and/or financial concern to the subject site. Refer to Section 4.1.1.1 and Appendix G for the EDR Environmental Database Report.
- Geotechnical & Environmental Consultants, Inc. (GEC) reviewed the National Wetlands Inventory (NWI) map and the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) to determine if these records indicate potential wetland and/or floodplain concerns on the subject property. According to the NWI map, no wetland areas were identified on the property; however, wetlands were observed during the site reconnaissance and were subsequently field delineated by GEC. See Section 3.3 of this report for details.
- According to the FIRM map, the subject property is located in Zone X-white, which is defined as areas determined to be outside the 0.2% annual chance floodplain. GEC, therefore, does not anticipate that a flooding hazard will deter the development of the subject property. See Section 3.4 of this report for details.

### **8.1 On-Site**

Based on the findings presented in this report, GEC found no obvious environmental concerns or risks associated with the subject property other than those described herein that are associated with an ongoing application to establish Limitation of Liability as a Brownfields site under the Georgia Hazardous Site Reuse and Redevelopment Act and as such; therefore, GEC recommends no further environmental study of the site at this time except as may be required to meet the regulatory requirements of the Brownfields Corrective Action Plan submitted to the Georgia Environmental Protection Division (EPD). Refer to Appendix U.

### **8.2 Off-Site**

Based on the findings presented in this report, GEC found no obvious environmental concerns regarding off-site properties within the ASTM search radii, except for the past release of petroleum from the Kennesaw General Store adjacent to the subject property to the west that has since received a No Further Action Required regulatory status and thus constitutes an historic REC; therefore, we recommend no further study of potential off-site impacts at this time.

Additional study may indirectly be conducted as part of the Brownfields Corrective Action Plan noted above.

## 9.0 DATA REFERENCES

GDCA 2012 Environmental Manual  
American Society for Testing and Materials (ASTM) E 1527-2005, Standard Practice for  
Environmental Site Assessments  
Mr. Jay Ronca and Paul Robinson with Vantage Development, LLC– client  
Ms. Bonni Thompson – owner environmental questionnaire  
City of Kennesaw and Cobb County, Georgia  
Cobb County Water System  
Cobb County Health Department  
Cobb County Fire Department  
City of Kennesaw Planning & Zoning  
Georgia Power  
Cobb County Tax Assessor’s website  
Cobb County Clerk of Superior Court (Deed Copies)  
Environmental Data Resources, Inc. (EDR) – environmental database report &  
historical aerial photographs and topographic map, Sanborn Maps, and City Directories  
Google Earth website (2009 aerial photograph)  
United States Geological Survey (U.S.G.S.)  
Georgia Geologic Survey  
Federal Emergency Management Agency (FEMA) Map Service Center (MSC) website (FIRM)  
U.S. Dept. of the Interior Fish & Wildlife Service’s National Wetlands Inventory (NWI) Map  
United States Environmental Protection Agency (EPA) Publication 402-R-93-030:  
EPA’s Map of Radon Zones for Georgia, dated September 1993  
Delorme™ 3-D TopoQuads™  
Previous Environmental Protection Division Studies  
Sailors Engineering Associates, Inc. Prospective Purchaser Corrective Action Plan

## 10.0 VALUATION REDUCTION

### **10.1 Purchase Price**

According to the User, The Villas at Stanford, L.P, the purchase price of the subject site is the same as the fair market value.

### **10.2 Interview of Broker regarding Market Value**

GEC understands that no broker is involved in the sale of the subject property.

### **10.3 Differential between Purchase Price & Market Value**

According to the User, the purchase price of the subject site is the same as the fair market value.

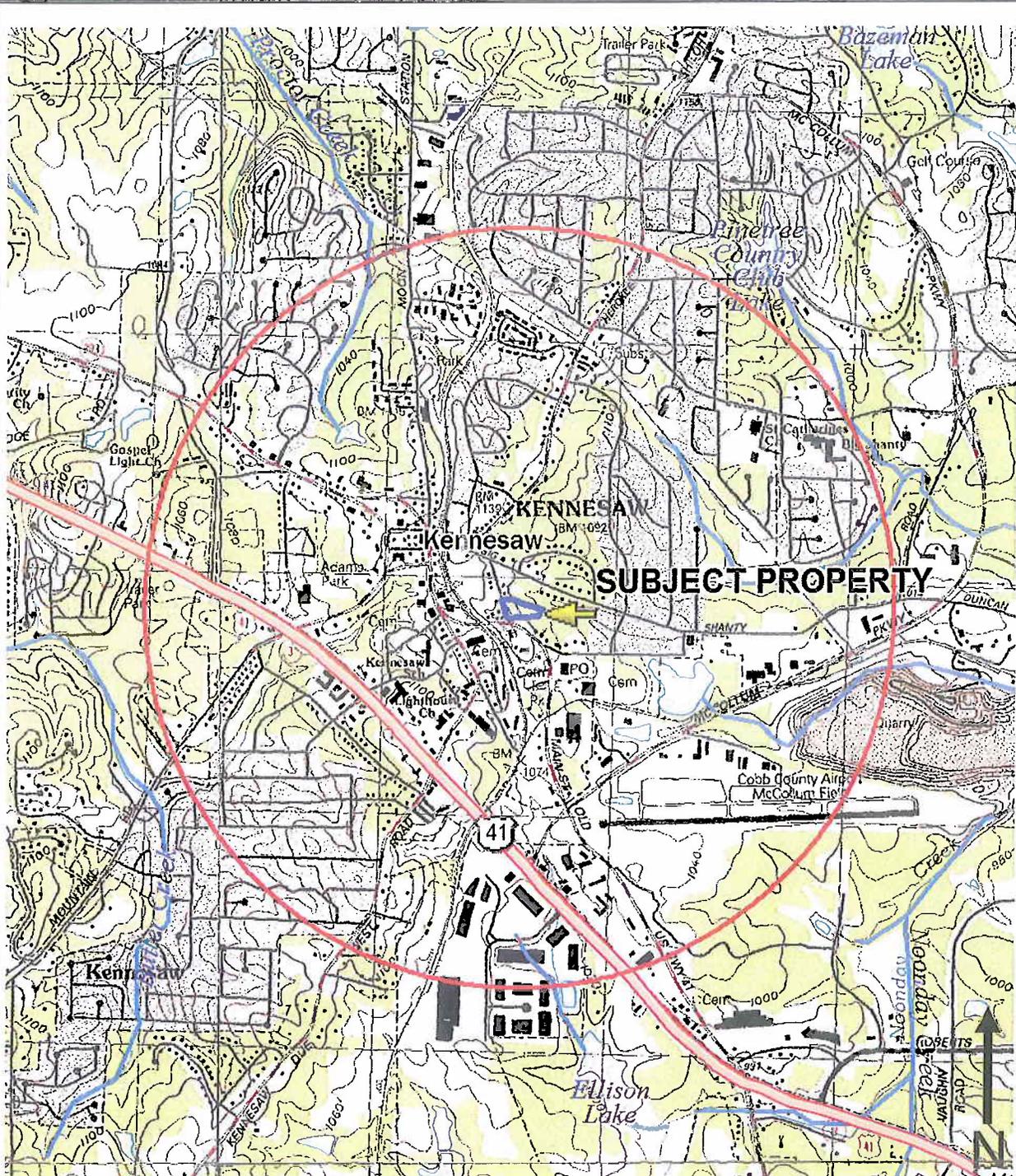
### **10.4 Environmental Reasons for any Differential**

Since no differential between the purchase price and market value of the property exists, there is no known devaluation of the property for environmental reasons.

# APPENDICES

**GEC**

**APPENDIX A:  
Figures & Maps**



**Figure 1**  
**U.S.G.S. Topographic Map**  
**The Villas @ Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Approximate Scale: 1" = 2,000'**  
**Source: Kennesaw, GA Quadrangle (1991)**

**GEC**  
**GEOTECHNICAL & ENVIRONMENTAL**  
**CONSULTANTS, INC.**

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U.S. Fish and Wildlife Service

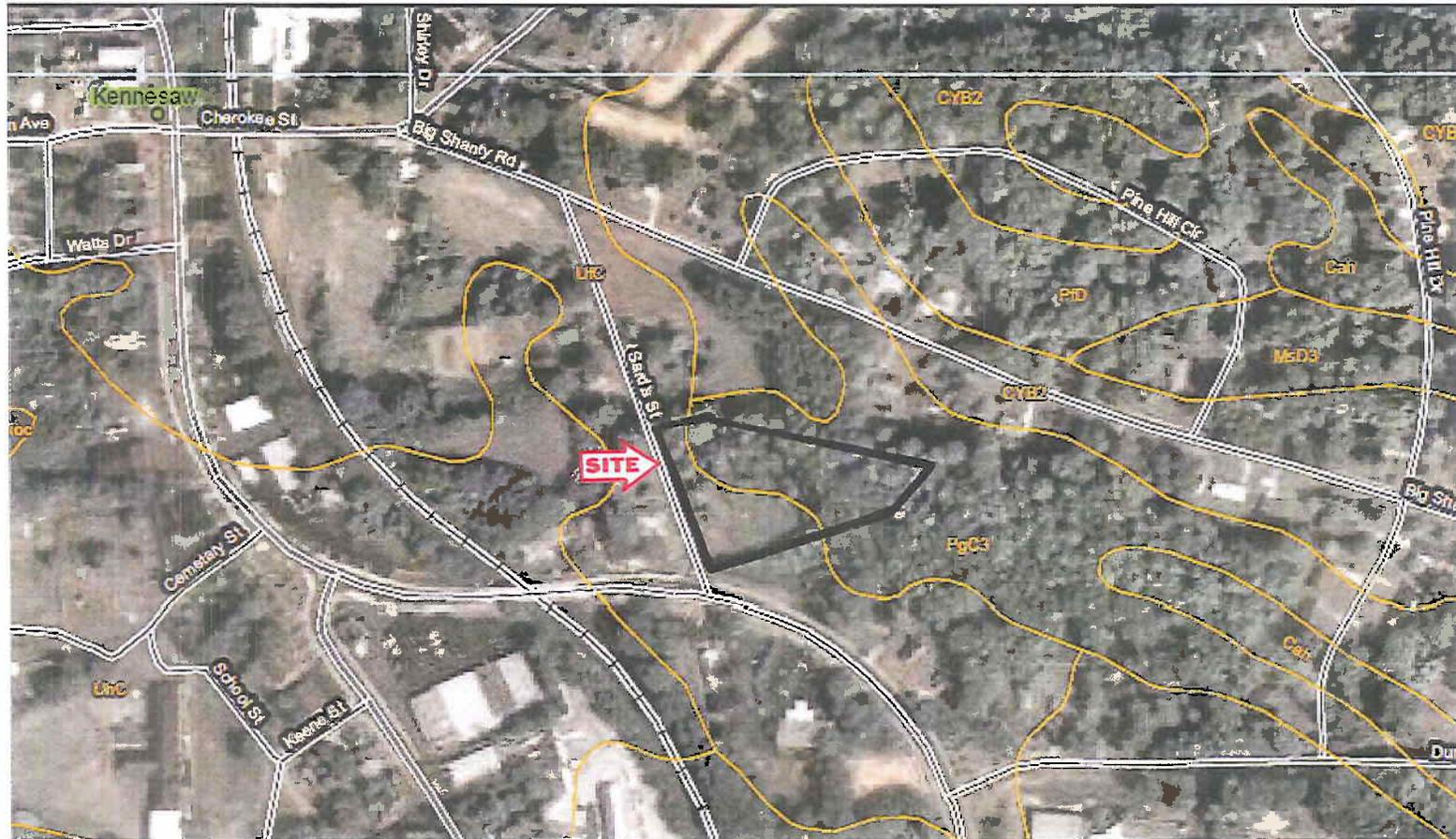
# National Wetlands Inventory



**Figure 2**  
**National Wetlands Inventory (NWI) Map**  
**The Villas @ Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Approximate Scale: 1"=300'**  
**Source: U.S. Fish & Wildlife Service**

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**Natural Resources Conservation Service**

**Figure 3**  
**Soil Survey Map**  
**The Villas @ Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Approximate scale: 1"= 391'**  
**Source: USDA NRCS**

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### MAP LEGEND

<b>Area of Interest (AOI)</b>			Very Stony Spot
	Area of Interest (AOI)		Wet Spot
<b>Soils</b>			Other
	Soil Map Units	<b>Special Line Features</b>	
<b>Special Point Features</b>			Gully
	Blowout		Short Steep Slope
	Borrow Pit		Other
	Clay Spot	<b>Political Features</b>	
	Closed Depression		Cities
	Gravel Pit	<b>Water Features</b>	
	Gravelly Spot		Streams and Canals
	Landfill	<b>Transportation</b>	
	Lava Flow		Rails
	Marsh or swamp		Interstate Highways
	Mine or Quarry		US Routes
	Miscellaneous Water		Major Roads
	Perennial Water		Local Roads
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		
	Spoil Area		
	Stony Spot		

### MAP INFORMATION

Map Scale: 1:5,630 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:15,840.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: UTM Zone 16N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

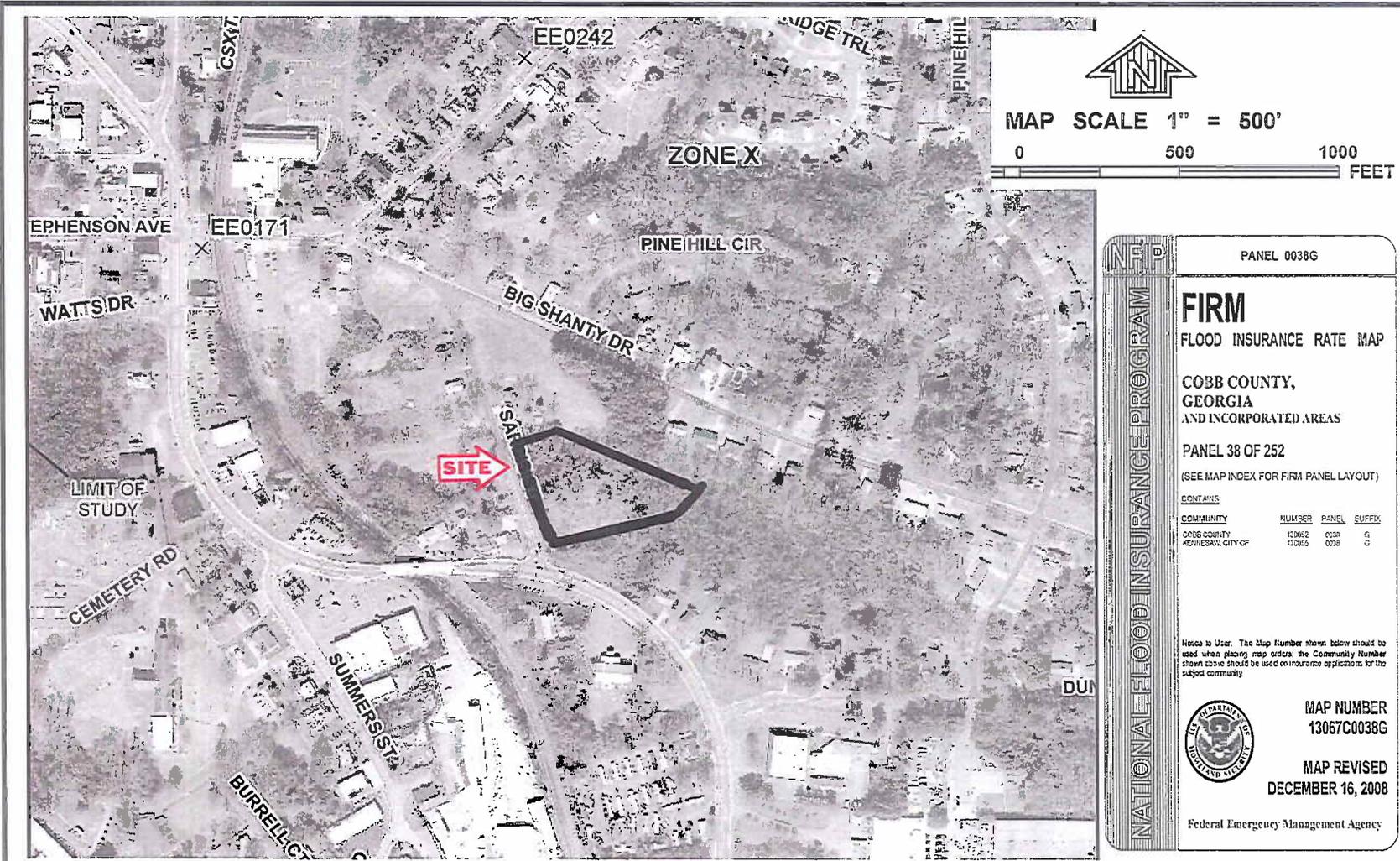
Soil Survey Area: Cobb County, Georgia  
 Survey Area Data: Version 4, Dec 28, 2006

Date(s) aerial images were photographed: 9/9/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Cobb County, Georgia (GA067)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Cah	Cartecay soils	5.0	2.9%
CYB2	Cecil sandy loam, 2 to 6 percent slopes, eroded	36.7	21.4%
MDC3	Madison clay loam, 6 to 10 percent slopes, severely eroded	20.4	11.9%
MgB2	Madison sandy loam, 2 to 6 percent slopes, eroded	2.1	1.2%
MsD3	Madison and Pacolet soils, 10 to 15 percent slopes, severely eroded	5.3	3.1%
MsE2	Madison and Pacolet soils, 15 to 25 percent slopes, eroded	0.0	0.0%
PfD	Pacolet sandy loam, 10 to 15 percent slopes	10.0	5.8%
PgC3	Pacolet sandy clay loam, 6 to 10 percent slopes, severely eroded	15.6	9.1%
Toc	Toccoa soils	0.8	0.5%
UfC	Urban land-Cecil complex, 2 to 10 percent slopes	36.4	21.2%
UhC	Urban land-Madison complex, 2 to 10 percent slopes	39.4	23.0%
<b>Totals for Area of Interest</b>		<b>171.6</b>	<b>100.0%</b>



PANEL 0038G

**FIRM**  
FLOOD INSURANCE RATE MAP

COBB COUNTY,  
GEORGIA  
AND INCORPORATED AREAS

PANEL 38 OF 252  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COBB COUNTY	13066	038	G
KENNESAW, CITY OF	13066	038	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.


**MAP NUMBER**  
13067C0038G  
**MAP REVISED**  
DECEMBER 16, 2008  
Federal Emergency Management Agency

**Figure 4**  
**Flood Insurance Rate Map (FIRM)**  
**The Villas @ Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Approximate Scale: 1"=500'**  
**Source: FEMA Map Service Center Website**

  
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# LEGEND



**SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



**OTHER FLOOD AREAS**

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



**OTHER AREAS**

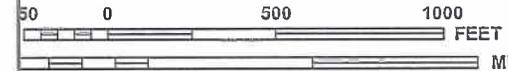
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.



National Flood Insurance Program at 1-800-658-8620.



**MAP SCALE 1" = 500'**



- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Base Flood Elevation line and value; elevation in feet\*  
(EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet\*
- \* Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- 87°07'45", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 760000N 1000-meter Universal Transverse Mercator grid values, zone 16
- 600000 FT 5000-foot grid ticks: Georgia State Plane coordinate system, West zone (FIPSZONE 1002), Transverse Mercator projection
- DX5510 X Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 River Mile

**MAP REPOSITORY**  
Refer to listing of Map Repositories on Map Index

**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
August 18, 1992

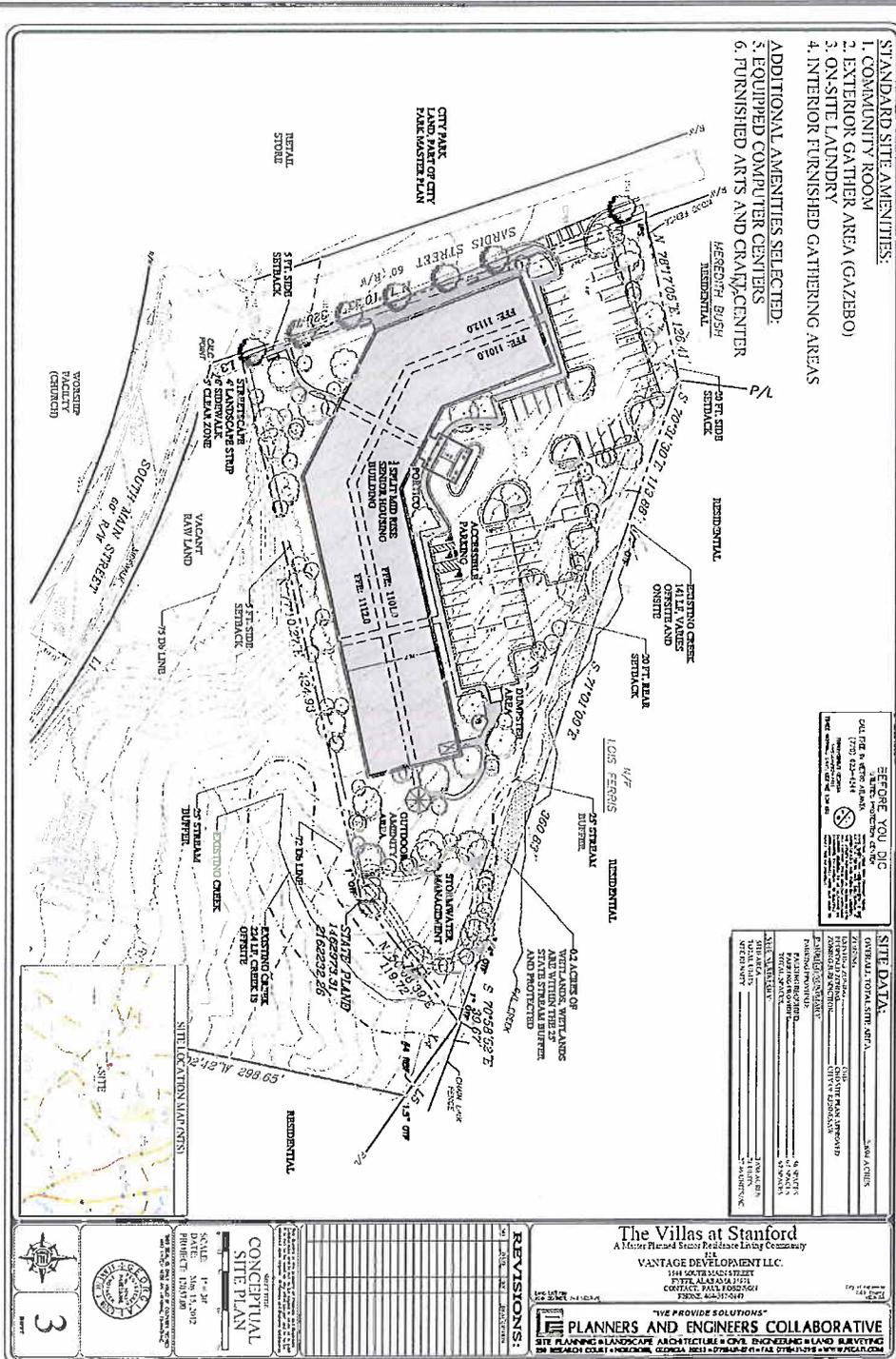
**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
December 16, 2008 - to change Base Flood Elevations and Special Flood Hazard Areas

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance Agent or call the National Flood Insurance Program at 1-800-658-8620.

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)





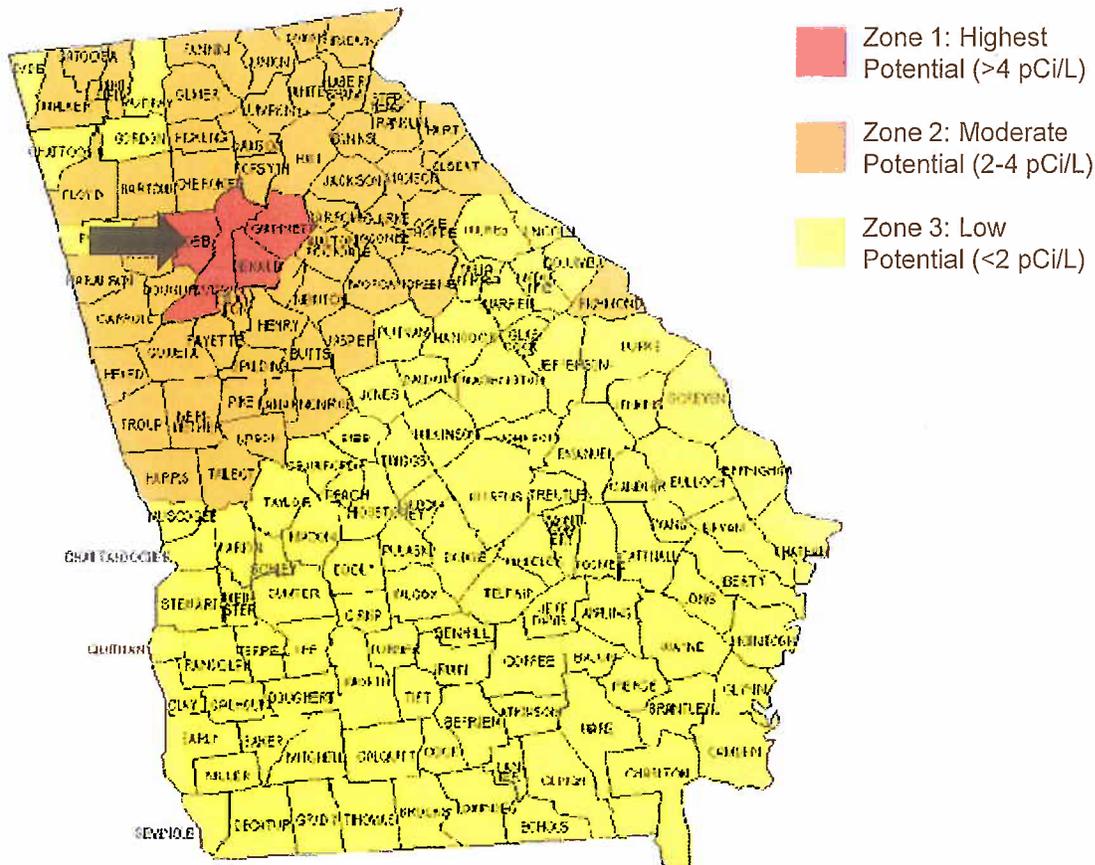
**Figure 6**  
**Site Plan**  
**The Villas @ Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Approximate Scale: Graphic**  
**Source: GEC's Client**

**GEC**  
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## GEORGIA

The U.S. EPA and the U.S. Geological Survey have evaluated the radon potential in the U.S. and have developed this map to assist National, State, and local organizations to target their resources and to assist building code officials in deciding whether radon-resistant features are applicable in new construction. This map is not intended to be used to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones. All homes should be tested regardless of geographic location. The map assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential. Each zone designation reflects the average short-term radon measurement that can be expected to be measured in a building without the implementation of radon control methods. The radon zone designation of the highest priority is Zone 1.



**Important:** Consult the EPA Map of Radon Zones document (EPA-402-R-93-071) before using this map. This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area. This and other indoor air quality publications can be ordered through the [IAQ INFO Clearinghouse](#).

**Figure 7**  
**Radon Map**  
**The Villas at Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Source: US EPA Website**  
**([www.epa.gov/iaq/radon/zonemap](http://www.epa.gov/iaq/radon/zonemap))**

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**Figure 8**  
**2011 Aerial Photograph**  
**The Villas @ Stanford**  
**Kennesaw, Cobb County, Georgia**  
**GEC Project No. 120392.240**  
**Approximate Scale: 1"=190'**  
**Source: Google Earth Website**

**GEC**  
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**APPENDIX B:**  
**Site Photographs**  
(All Photographs taken May 30, 2012)



**Photograph 1**

View generally east across Sardis Road toward the southwestern corner of the subject property



**Photograph 2**

View to the southeast across Sardis Road to its intersection with South Main Street; subject property to left



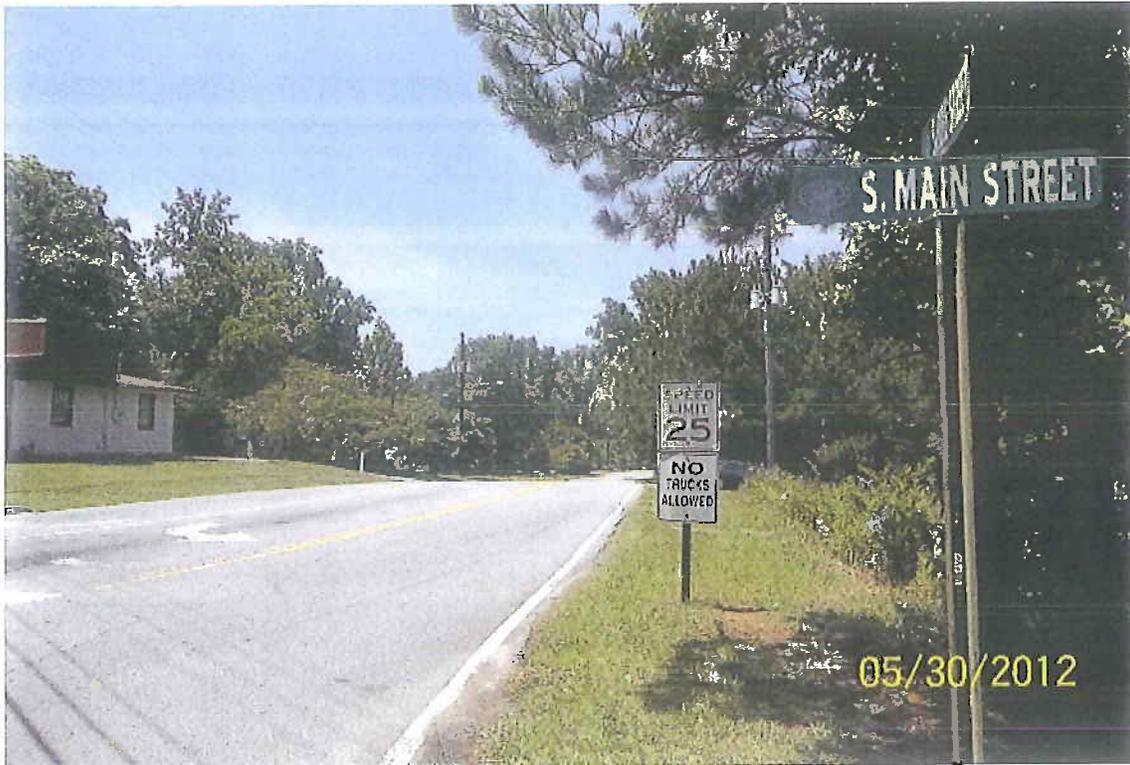
**Photograph 3**

View generally south across South Main Street toward Church property south of the subject property



**Photograph 4**

View generally west from the southwestern corner of the subject property toward the former "The General Store" LUST site



**Photograph 5**

View generally northwest up Sardis Road from near the southwest corner of the subject property



**Photograph 6**

View generally east toward the northwest corner of the subject property



**Photograph 7**

View generally southeast across Sardis Road into the property from near its northwestern corner



**Photograph 8**

View generally south down Sardis Road from near the subject northwestern property corner



**Photograph 9**

View generally northeast across Sardis Road from near the subject northeastern property corner



**Photograph 10**

View to the west across Sardis Road from the central-northwestern portion of the subject property



**Photograph 11**  
View to the west across Sardis Road from the central-western portion of the subject property



**Photograph 12**  
View generally eastward at the central western portion of the subject property



**Photograph 13**

View of drum of non-hazardous waste likely from the onsite soil and groundwater contamination assessment conducted as part of the past HSRA Assessment



**Photograph 14**

Building debris in the northwestern portion of the subject property



**Photograph 15**

View to the northeast at or near the presumed northernmost corner of the subject property



**Photograph 16**

Typical view from northernmost point of the subject property down the presumed long northern boundary of the subject property



**Photograph 17**

Typical view of debris pushed onto the slope along the long northern boundary of the subject property



**Photograph 18**

Typical view of the upslope area in the central northeastern portion of the subject property



**Photograph 19**

Typical view of the stream that borders a portion of the subject property to the north



**Photograph 20**

Typical view in the wooded eastern portion of the subject property



**Photograph 21**

Typical view in the southeastern portion of the subject property



**Photograph 22**

View generally east at or near the subject eastern most property corner shared with residential properties



**Photograph 23**

View generally west in the central southern portion of the subject property

**APPENDIX C:  
Historical Research  
Documentation**

**GEC**

**The Villas At Stanford**

Sardis Street, NW

Kennesaw, GA 30144

Inquiry Number: 3330087.5

May 24, 2012

**The EDR Aerial Photo Decade Package**



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Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

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**Date EDR Searched Historical Sources:**

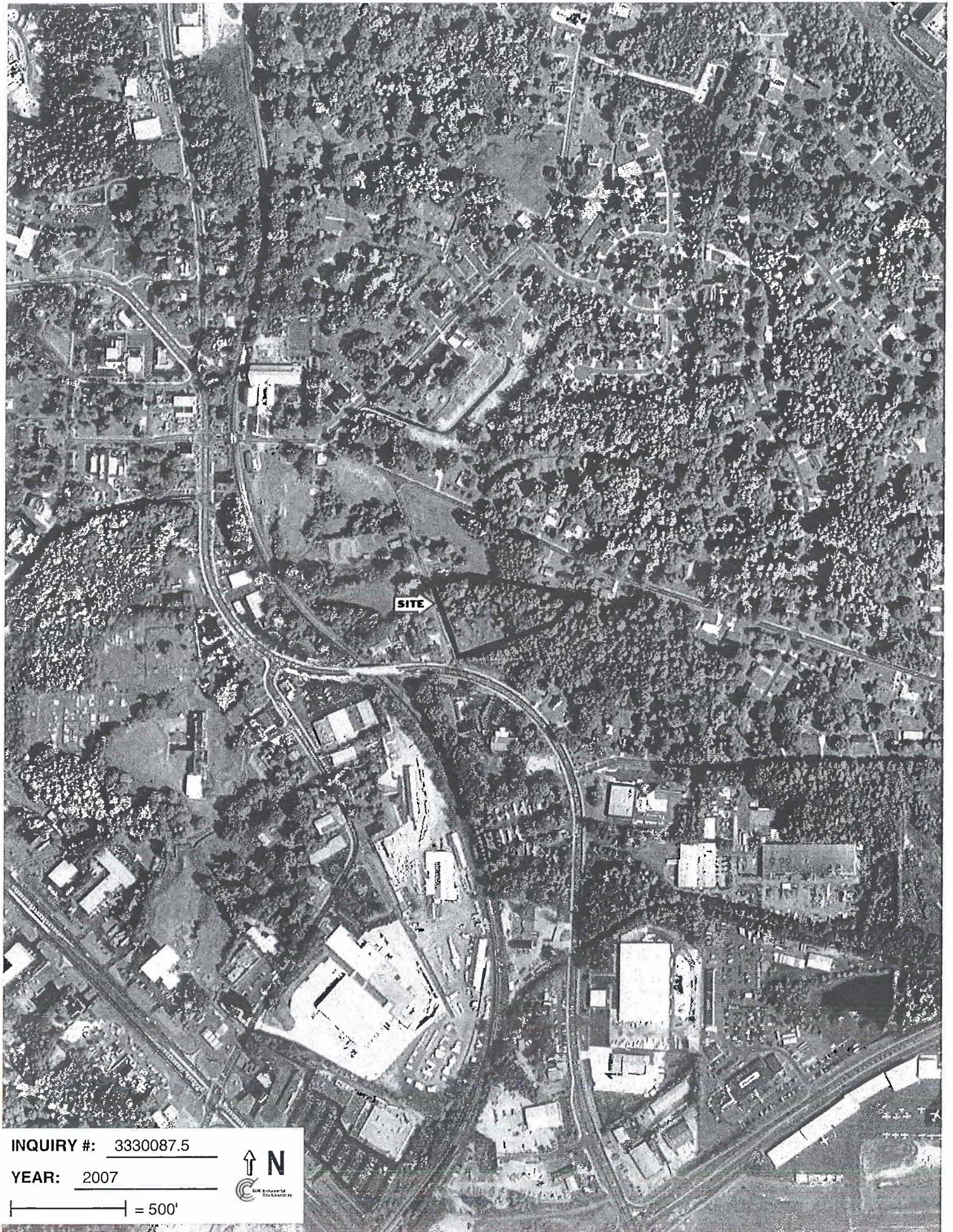
Aerial Photography May 24, 2012

**Target Property:**

Sardis Street, NW

Kennesaw, GA 30144

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1943	Aerial Photograph. Scale: 1"=476'	Flight Year: 1943	AAA
1955	Aerial Photograph. Scale: 1"=476'	Flight Year: 1955	CSS
1960	Aerial Photograph. Scale: 1"=476'	Flight Year: 1960	CSS
1972	Aerial Photograph. Scale: 1"=476'	Flight Year: 1972	ASCS
1988	Aerial Photograph. Scale: 1"=950'	Flight Year: 1988	USGS
1993	Aerial Photograph. Scale: 1"=500'	/Composite DOQQ - acquisition dates: 1993	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	EDR



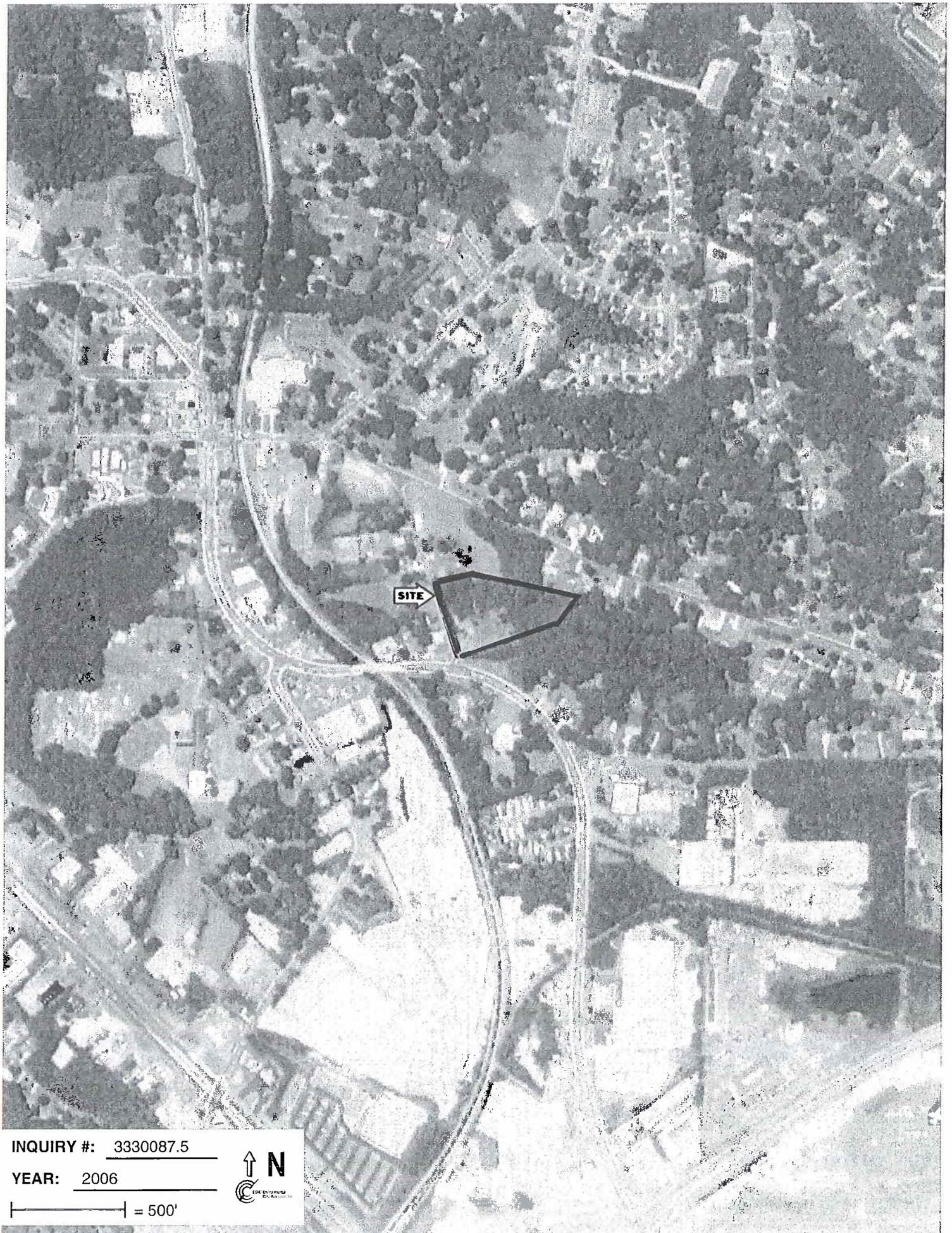
SITE

INQUIRY #: 3330087.5

YEAR: 2007

— = 500'





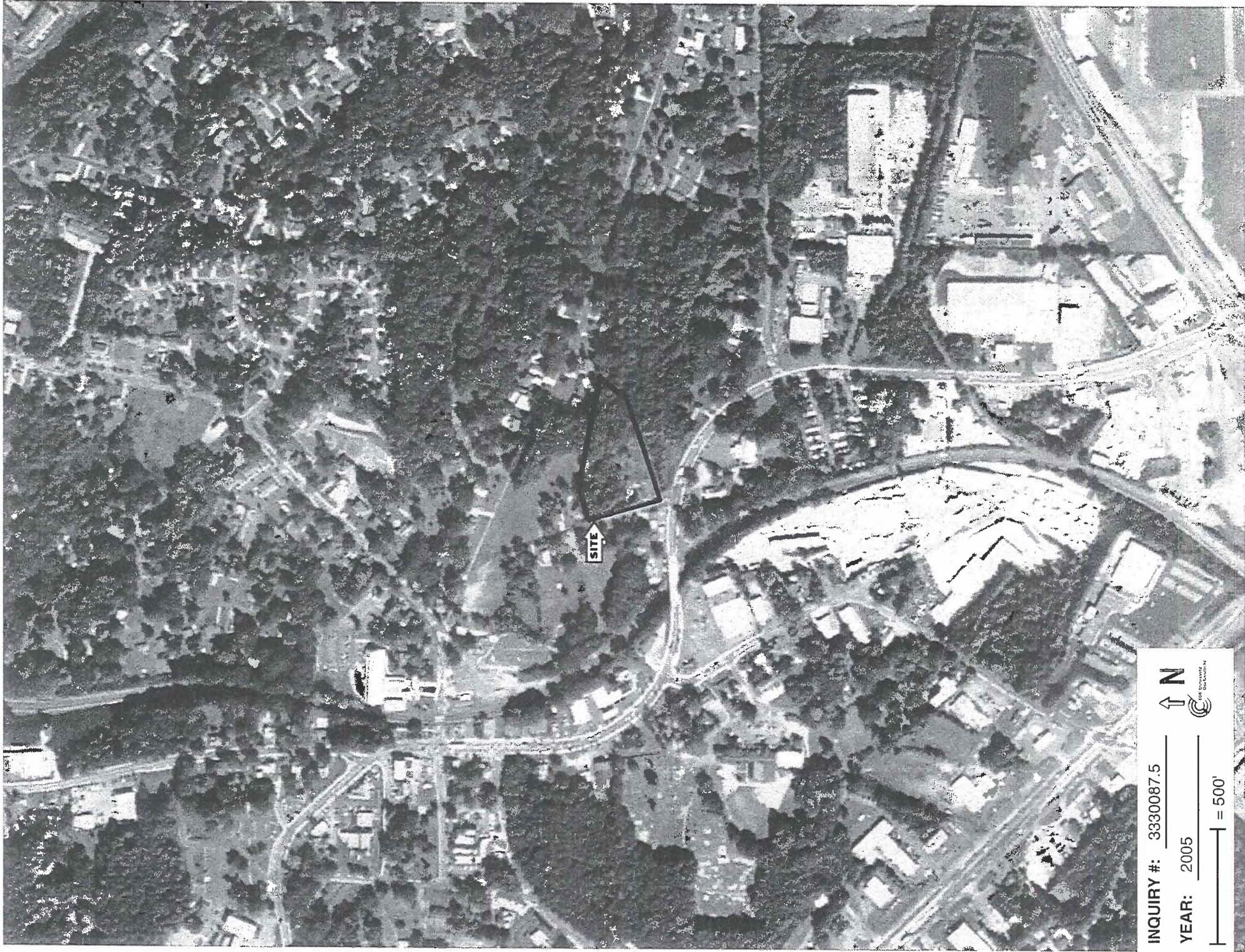
SITE

INQUIRY #: 3330087.5

YEAR: 2006

| = 500'



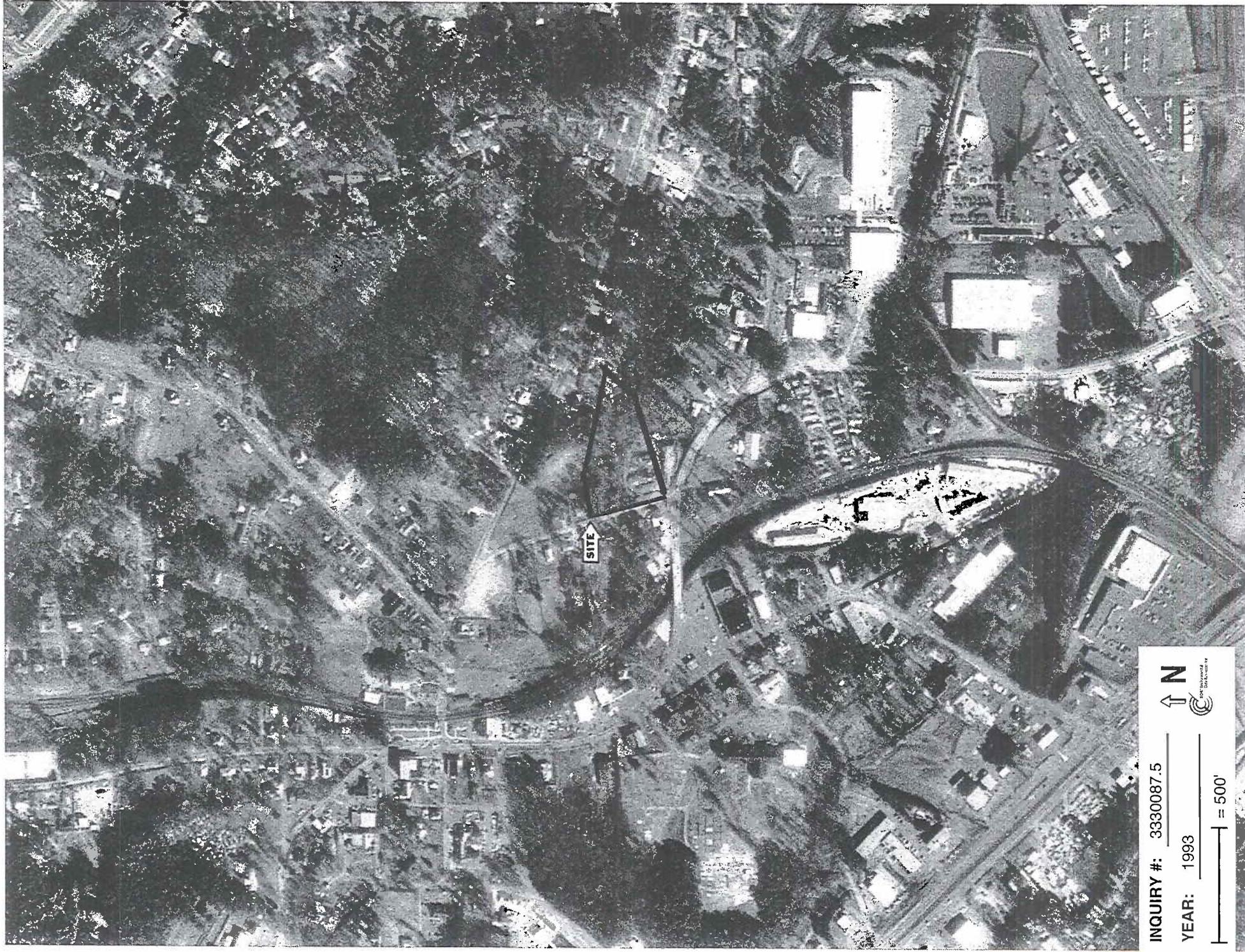


INQUIRY #: 3330087.5

YEAR: 2005

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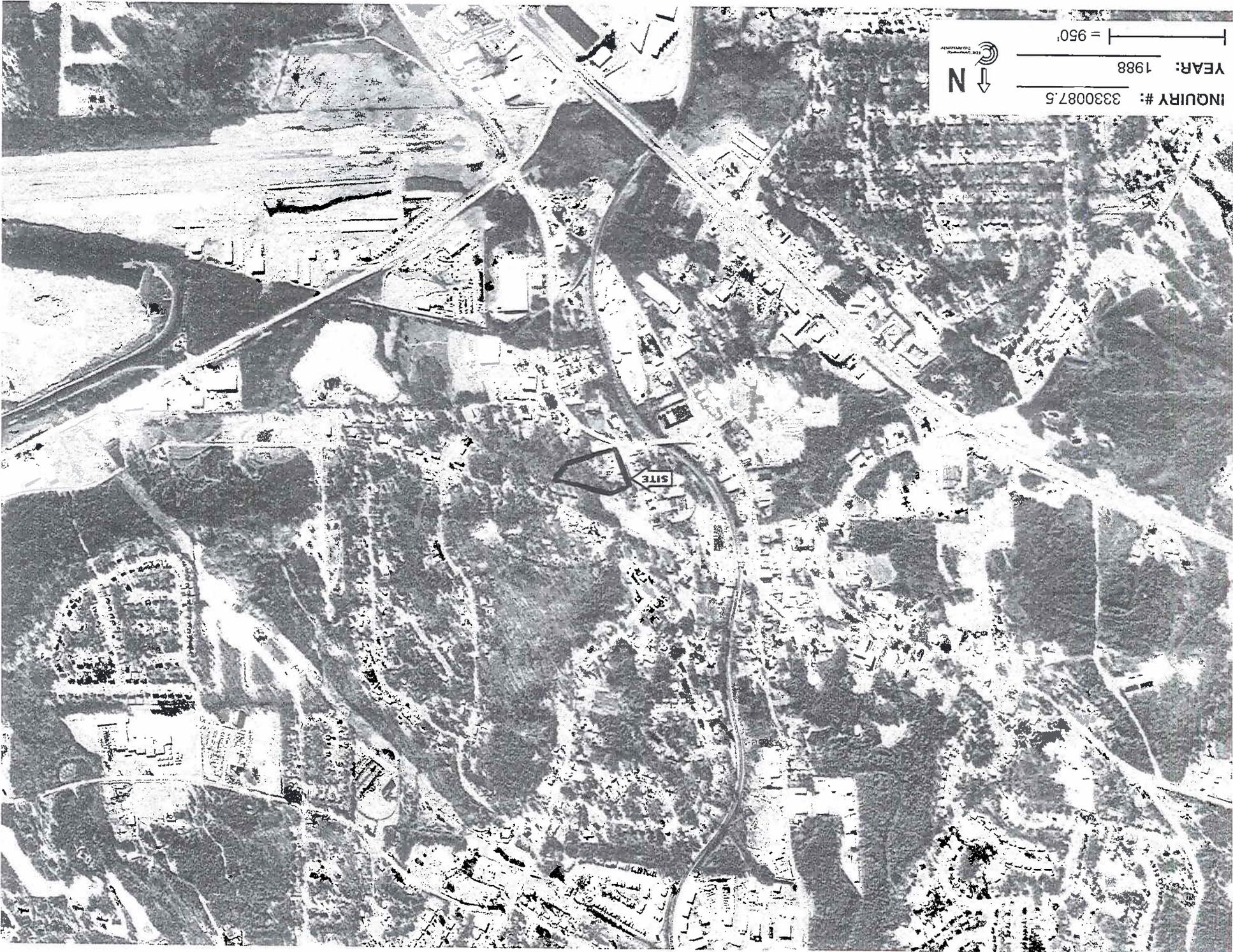


INQUIRY #: 3330087.5

YEAR: 1993

1" = 500'





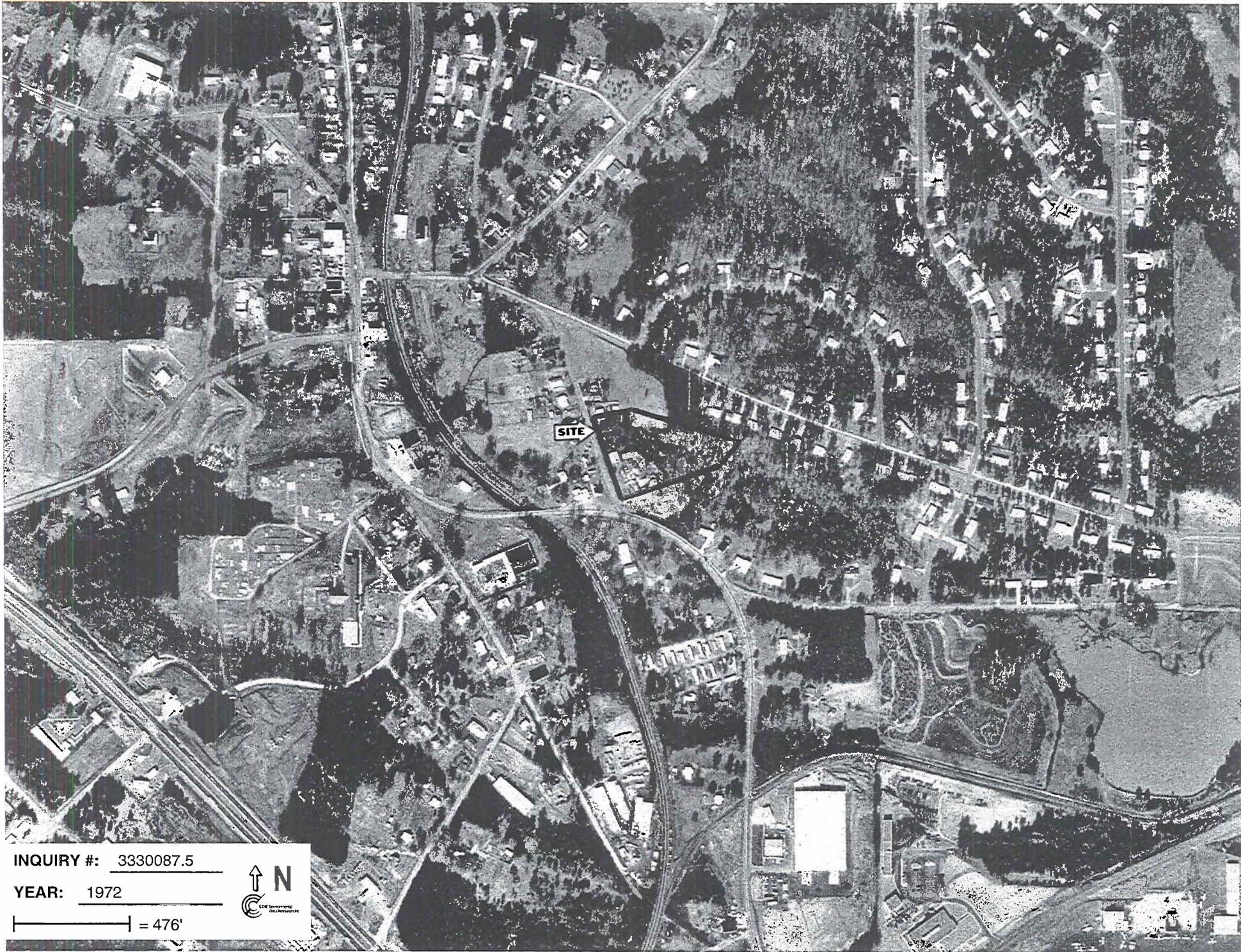
950' =



YEAR: 1988

INQUIRY #: 3330087.5

SITE



SITE

INQUIRY #: 3330087.5

YEAR: 1972

— = 476'



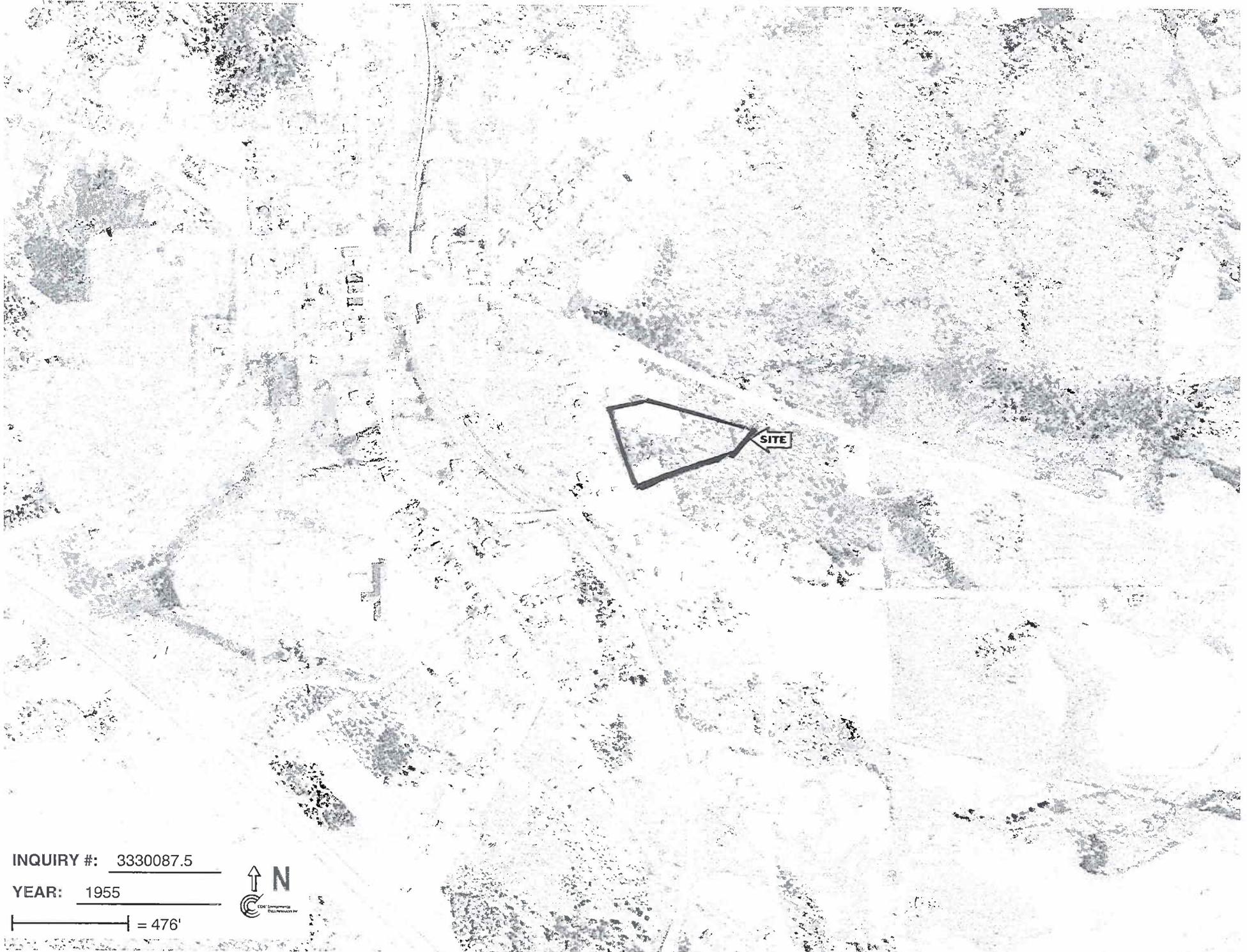


INQUIRY #: 3330087.5

YEAR: 1960

| = 476'



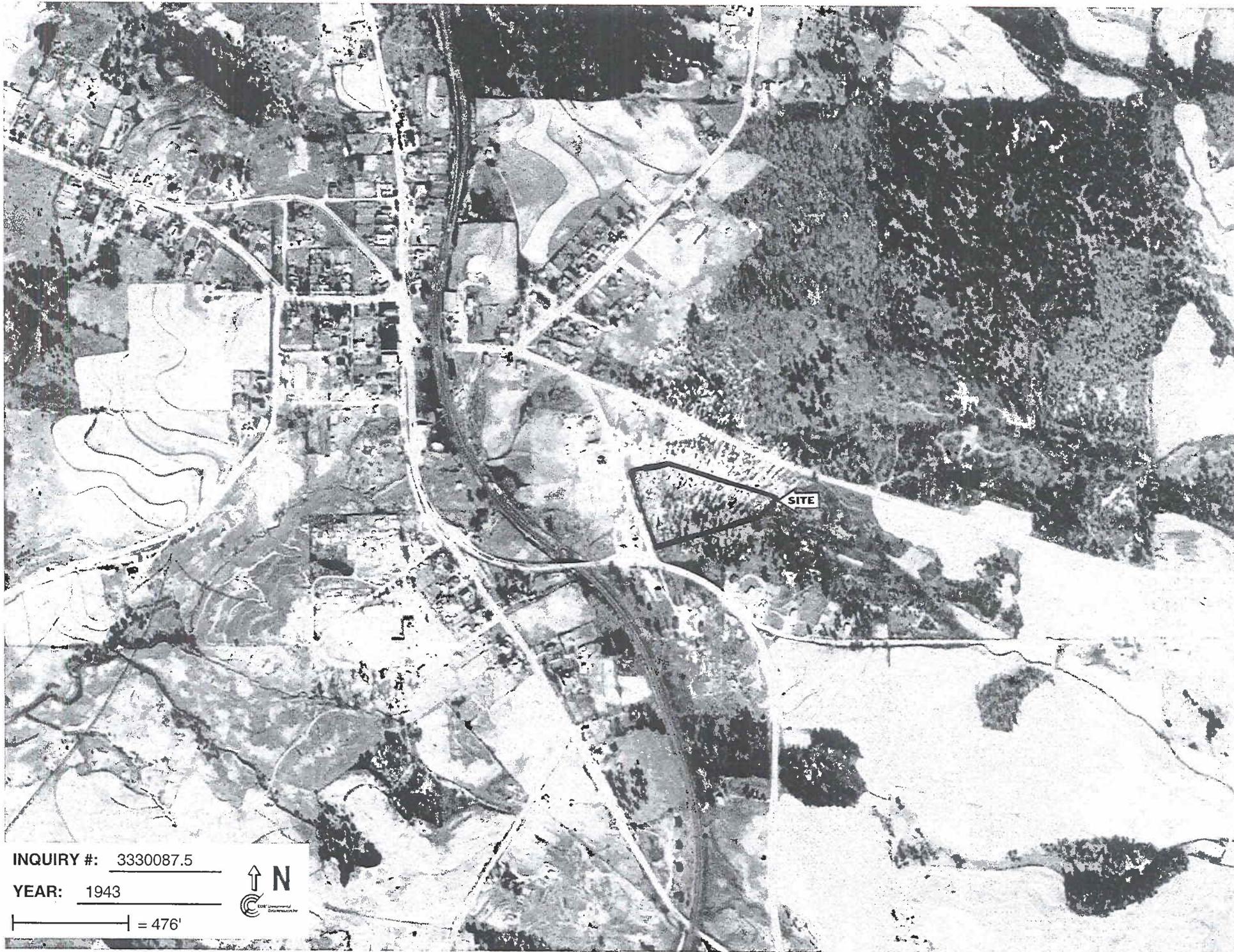


INQUIRY #: 3330087.5

YEAR: 1955

 = 476'





INQUIRY #: 3330087.5

YEAR: 1943

| = 476'



**The Villas At Stanford**  
Sardis Street, NW  
Kennesaw, GA 30144

Inquiry Number: 3330087.3  
May 24, 2012

## Certified Sanborn® Map Report



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Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

5/24/12

**Site Name:**

The Villas At Stanford  
Sardis Street, NW  
Kennesaw, GA 30144

**Client Name:**

Geotechnical & Envntl. Cons.  
514 Hillcrest Industrial  
Macon, GA 31204



EDR Inquiry # 3330087.3

Contact: Greta Woods

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## Certified Sanborn Results:

**Site Name:** The Villas At Stanford  
**Address:** Sardis Street, NW  
**City, State, Zip:** Kennesaw, GA 30144  
**Cross Street:**  
**P.O. #** NA  
**Project:** 120392.240  
**Certification #** 83DC-44A9-AFA8



Sanborn® Library search results  
Certification # 83DC-44A9-AFA8

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- Library of Congress
- University Publications of America
- EDR Private Collection

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**The Villas At Stanford**

Sardis Street, NW

Kennesaw, GA 30144

Inquiry Number: 3330087.4

May 24, 2012

## EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

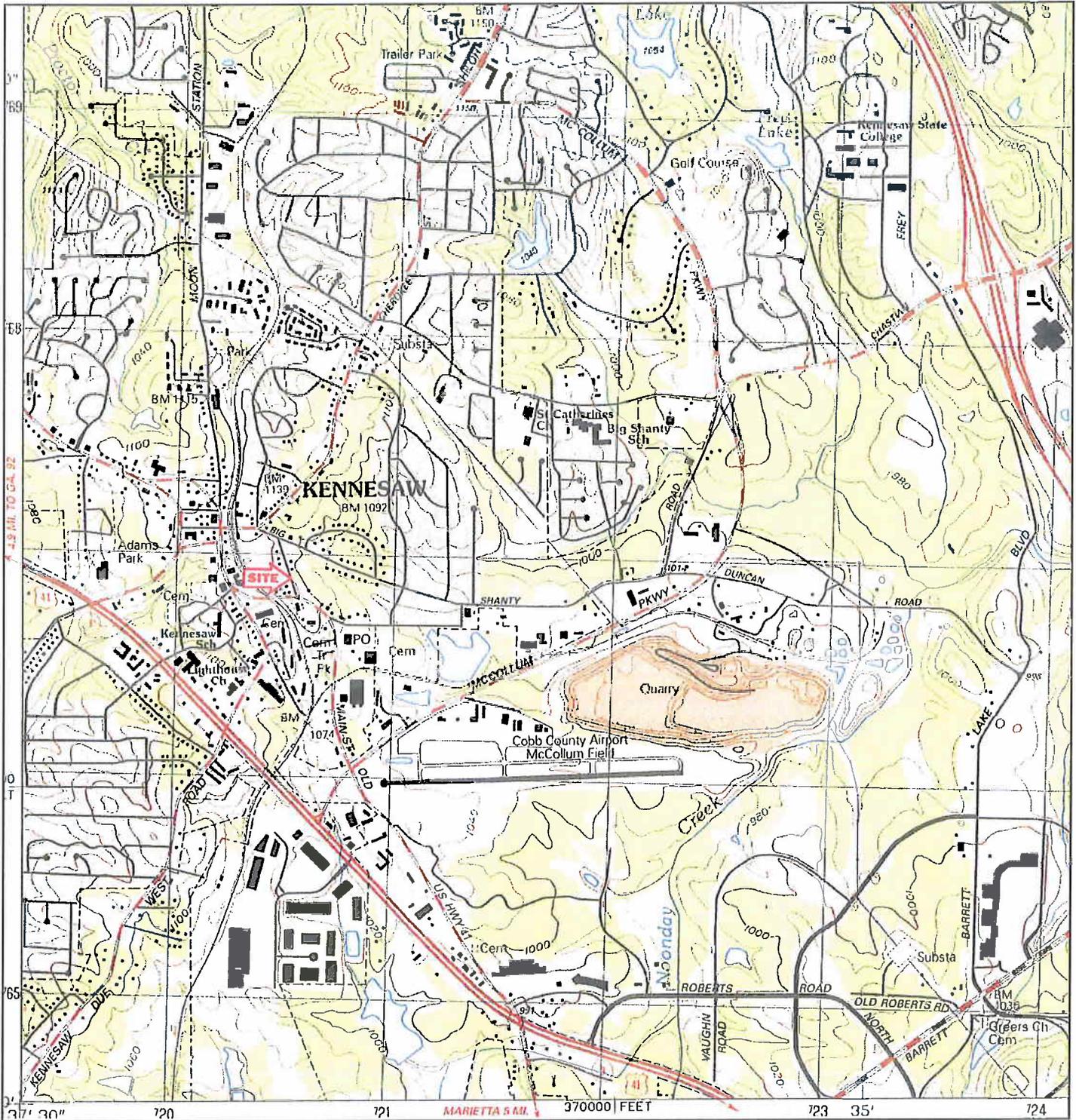
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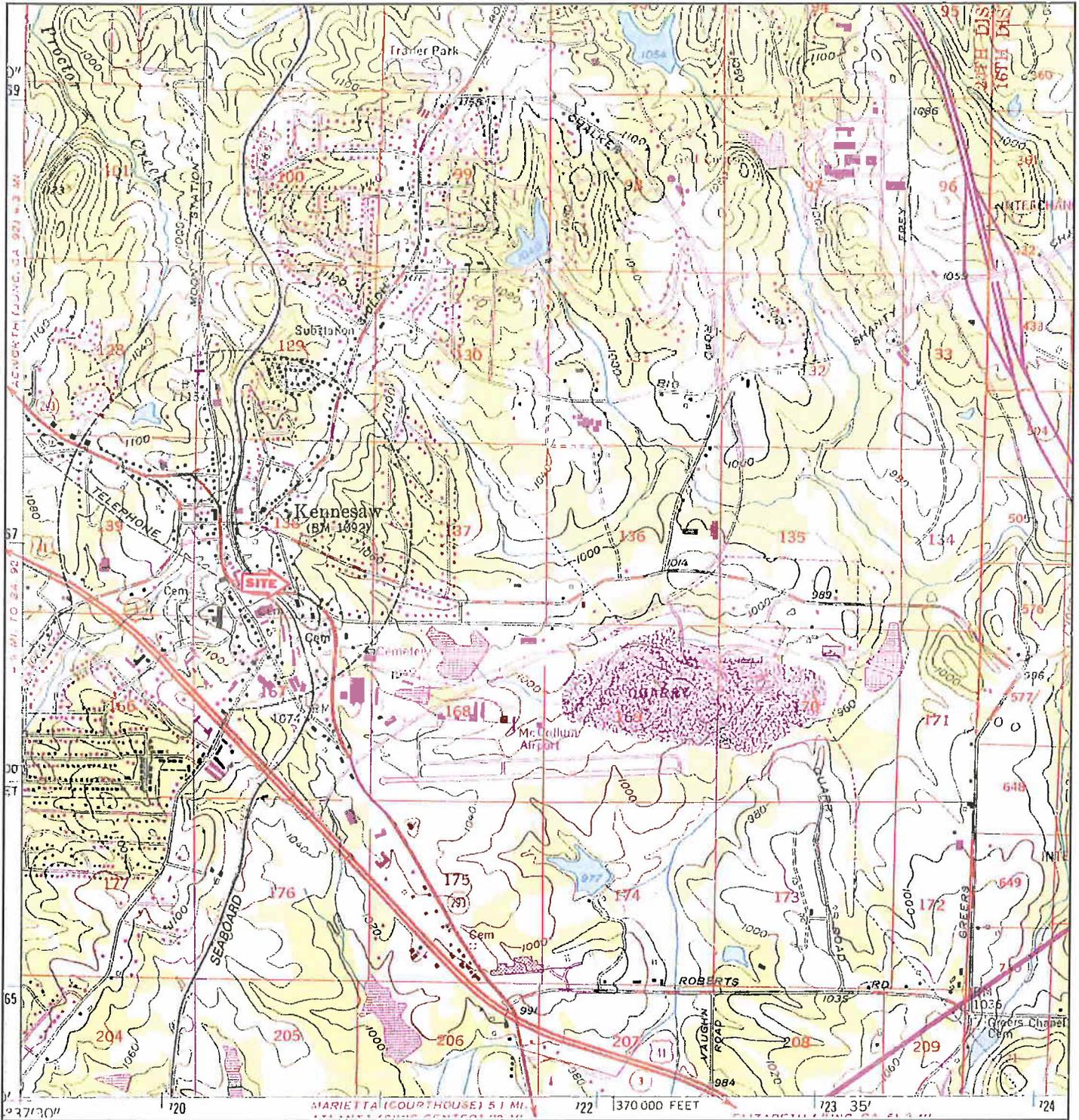
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# Historical Topographic Map



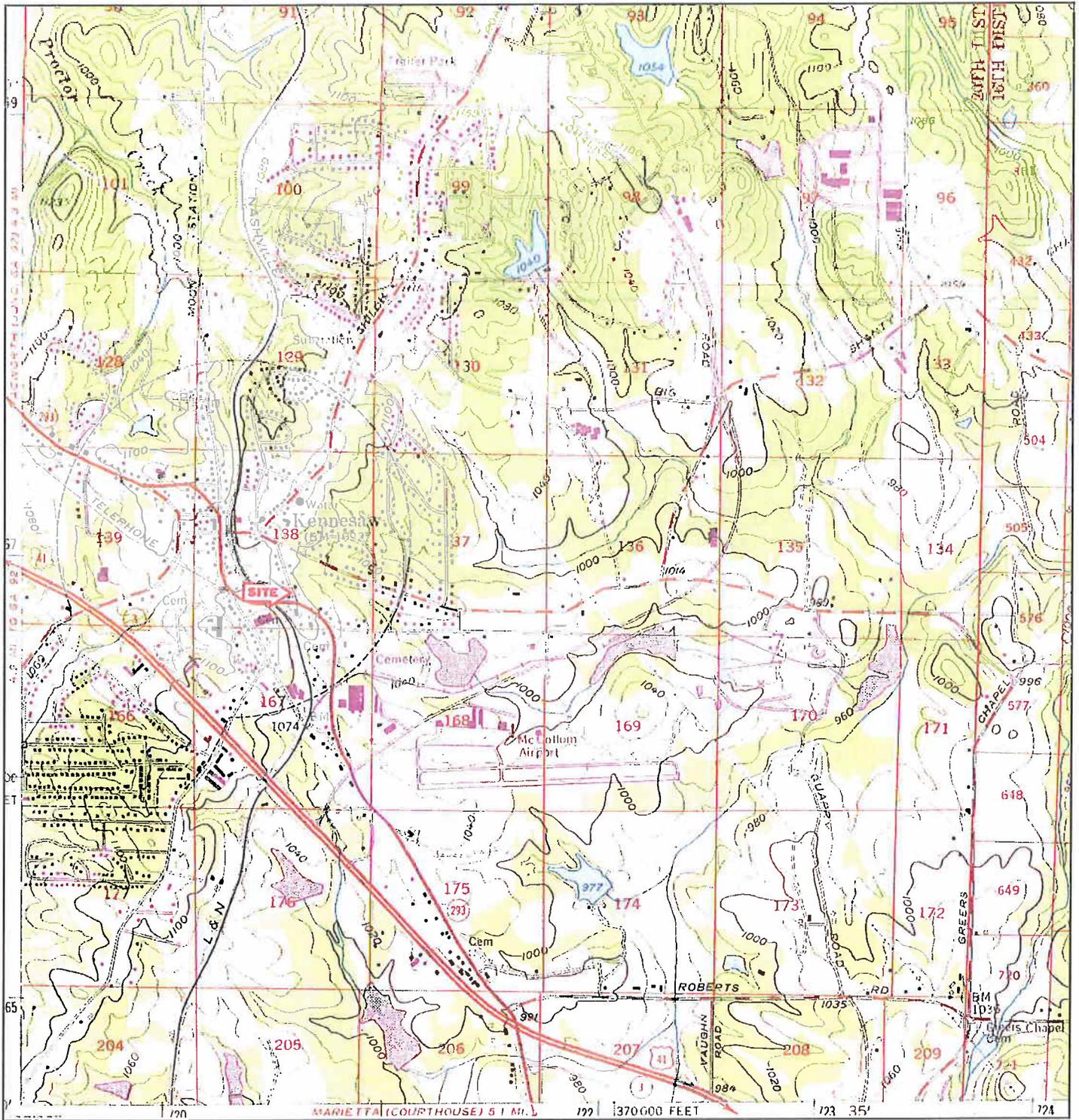
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	<p>SERIES: 7.5 SCALE: 1:24000</p>		

# Historical Topographic Map



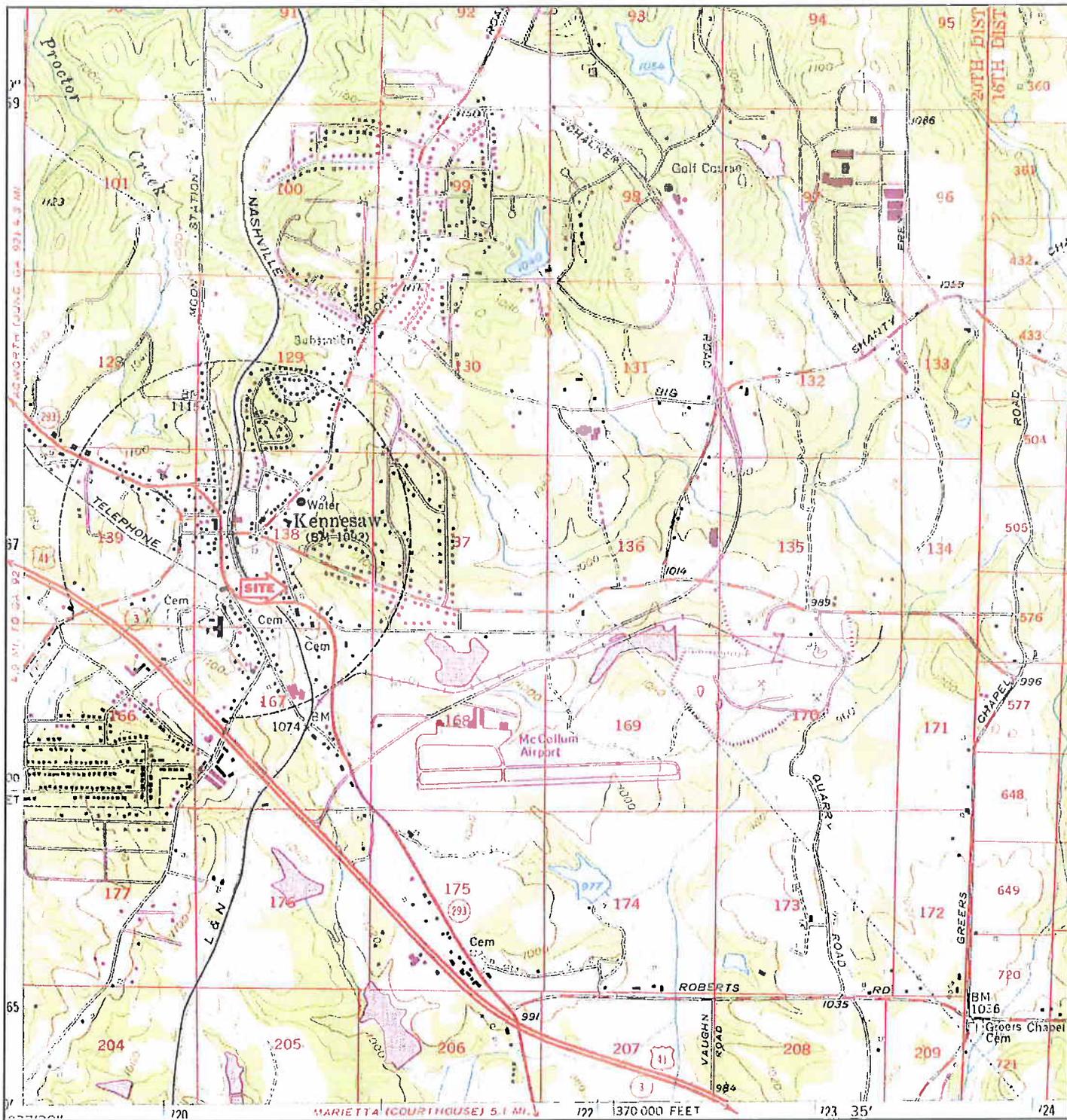
<p>N</p> 	TARGET QUAD	SITE NAME:	The Villas At Stanford	CLIENT:	Geotechnical & Envtl. Cons.	
	NAME:	KENNESAW	ADDRESS:	Sardis Street, NW	CONTACT:	Greta Woods
	MAP YEAR:	1985		Kennesaw, GA 30144	INQUIRY#:	3330087.4
	PHOTOREVISED FROM :	1956	LAT/LONG:	34.0212 / -84.6112	RESEARCH DATE:	05/24/2012
	SERIES:	7.5				
SCALE:	1:24000					

# Historical Topographic Map



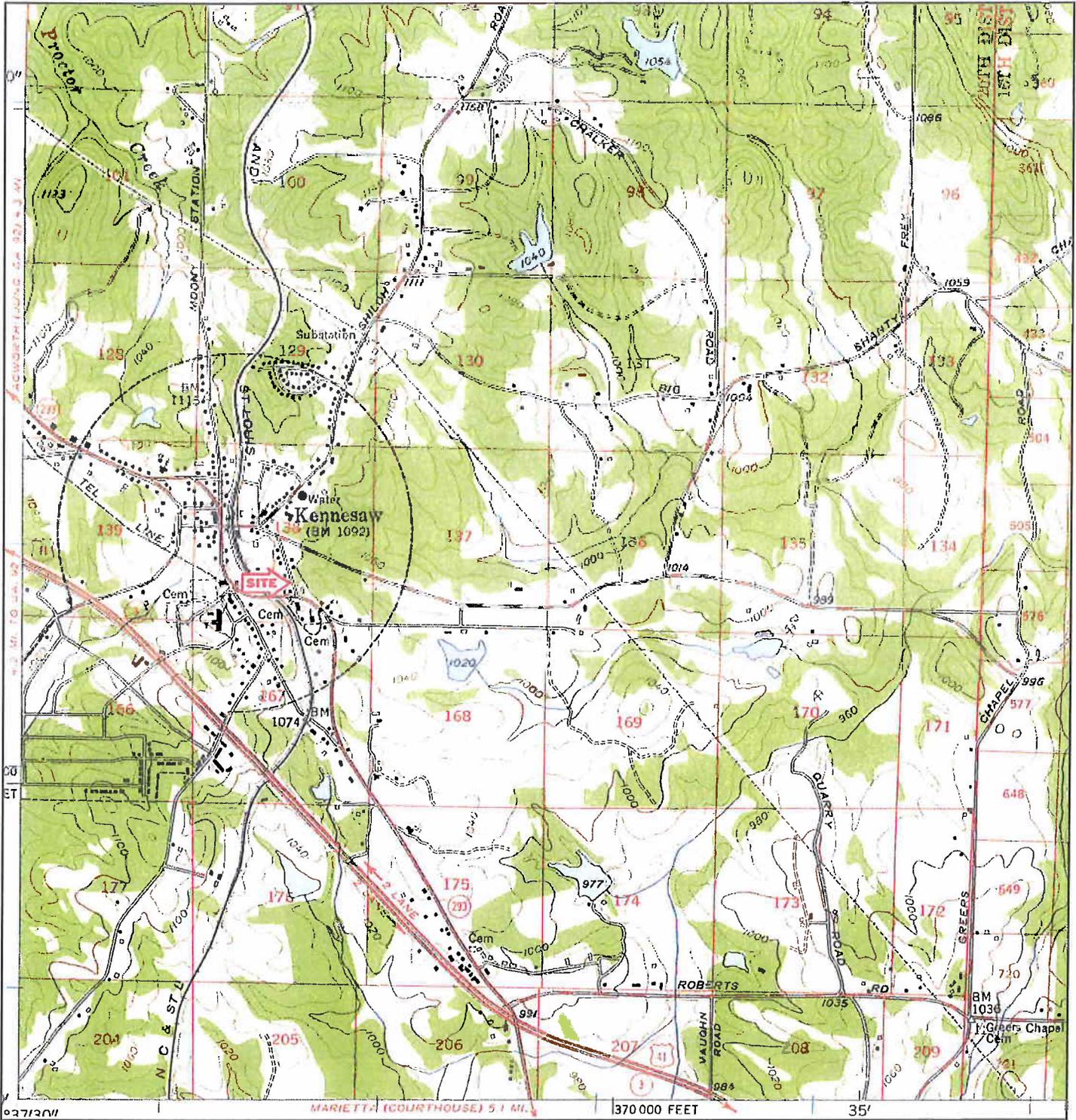
<p>N ↑</p>	<p>TARGET QUAD NAME: KENNESAW MAP YEAR: 1973 PHOTOREVISED FROM :1956 SERIES: 7.5 SCALE: 1:24000</p>	<p>SITE NAME: The Villas At Stanford ADDRESS: Sardis Street, NW Kennesaw, GA 30144 LAT/LONG: 34.0212 / -84.6112</p>	<p>CLIENT: Geotechnical &amp; Env'tl. Cons. CONTACT: Greta Woods INQUIRY#: 3330087.4 RESEARCH DATE: 05/24/2012</p>

# Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	The Villas At Stanford	CLIENT:	Geotechnical & Envtl. Cons.	
	NAME:	KENNESAW	ADDRESS:	Sardis Street, NW	CONTACT:	Greta Woods
	MAP YEAR:	1968		Kennesaw, GA 30144	INQUIRY#:	3330087.4
	PHOTOREVISED FROM :	1956	LAT/LONG:	34.0212 / -84.6112	RESEARCH DATE:	05/24/2012
	SERIES:	7.5				
SCALE:	1:24000					

# Historical Topographic Map



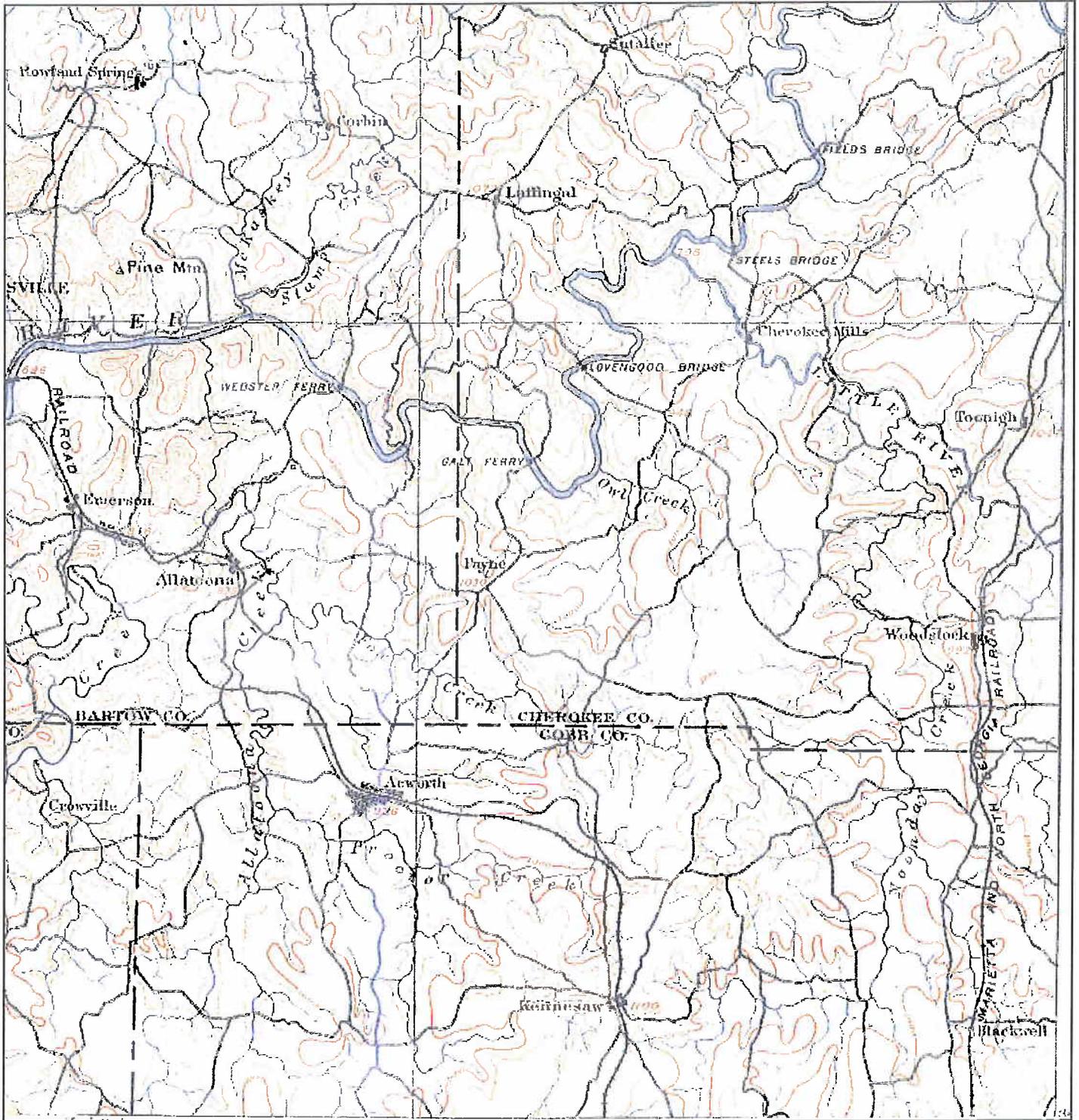
	<b>TARGET QUAD</b> NAME: KENNESAW MAP YEAR: 1956	<b>SITE NAME:</b> The Villas At Stanford <b>ADDRESS:</b> Sardis Street, NW Kennesaw, GA 30144 <b>LAT/LONG:</b> 34.0212 / -84.6112	<b>CLIENT:</b> Geotechnical & Envtl. Cons. <b>CONTACT:</b> Greta Woods <b>INQUIRY#:</b> 3330087.4 <b>RESEARCH DATE:</b> 05/24/2012
	SERIES: 7.5 SCALE: 1:24000		

# Historical Topographic Map



<b>N</b> 	<b>TARGET QUAD</b> NAME: ACWORTH MAP YEAR: 1909	<b>SITE NAME:</b> The Villas At Stanford <b>ADDRESS:</b> Sardis Street, NW Kennesaw, GA 30144 <b>LAT/LONG:</b> 34.0212 / -84.6112	<b>CLIENT:</b> Geotechnical & Env'tl. Cons. <b>CONTACT:</b> Greta Woods <b>INQUIRY#:</b> 3330087.4 <b>RESEARCH DATE:</b> 05/24/2012
	SERIES: 15 SCALE: 1:62500		

# Historical Topographic Map



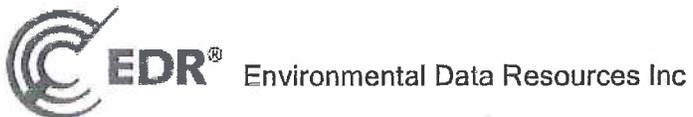
<p>N ↑</p>	<p>TARGET QUAD NAME: CARTERSVILLE MAP YEAR: 1896</p>	<p>SITE NAME: The Villas At Stanford ADDRESS: Sardis Street, NW Kennesaw, GA 30144 LAT/LONG: 34.0212 / -84.6112</p>	<p>CLIENT: Geotechnical &amp; Envtl. Cons. CONTACT: Greta Woods INQUIRY#: 3330087.4 RESEARCH DATE: 05/24/2012</p>
	<p>SERIES: 30 SCALE: 1:125000</p>		

**The Villas At Stanford**

Sardis Street, NW  
Kennesaw, GA 30144

Inquiry Number: 3330087.6  
May 25, 2012

## The EDR-City Directory Image Report



440 Wheelers Farms Road  
Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1997	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1987	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1977	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Johnson's City Directory
1972	<input type="checkbox"/>	<input type="checkbox"/>	Con Survey City Directory
1968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Atlanta's City Directory

### RECORD SOURCES

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## FINDINGS

### TARGET PROPERTY STREET

Sardis Street, NW  
Kennesaw, GA 30144

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
<b><u>Sardis Street NW</u></b>			
2010	pg A1	Haines Criss-Cross Directory	
1997	pg A2	Polk's City Directory	
1987	-	Polk's City Directory	Street not listed in Source
1977	pg A3	Johnson's City Directory	
1972	-	Con Survey City Directory	Street not listed in Source
1968	pg A4	Atlanta's City Directory	

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

Sardis Street NW

2010

SARDIS ST NW 30144  
KENNESAW

WEALTH CODE 6

COBB CO

N OFF MAIN S OF CHEROKEE  
TO BIG SHANTY DR

- 2755 FOOS Douglas 678-355-0521
- 2771 ● CONNER Dennis B 770-423-0321 3
- 2790 ● BUSH Mary OO 3
- 2797 XXXX OO
- 2798 ● FERRIS Lois B 770-428-2870
- 2807 BLALOCK Fletcher 770-419-9428
- CLARK Kenneth OO
- 2817 FERRIS Bob 770-427-7583
- HAMBY Edna OO 3

★ 0 BUS 9 RES 0 NEW

Sardis Street NW

1997

**SARDIS ST (N)**

**30144**

2771 Molnar Greg	-2811	C008	422-6728
2790 Bush H H	-2812	C008	428-1889
Parker Daniel	-2812	C008	428-8135
2797 Conner Dennis B	-2811	C008	428-4998
2798 Ferris Lois B	-2812	C008	428-2870
Grossberg Michael	-2812	C008	419-2531
2807 Blalock Fletch	-2811	C008	419-9428
Blalock Lena	-2811	C008	419-9428
2817 Hamby Mari H	-2811	C008	427-7013

**HOUSEHOLDS 9**

Sardis Street NW

1977

**SARDIS ST NW (K) (30700)****SE FROM 100 BIG SHANTY RD TO****BIG SHANTY DR****ZC 30144**

<b>2755</b>	<b>SULLIVAN Robert L (2)</b>	<b>.....428-1056</b>
<b>2790</b>	<b>BUSH Gary</b>	<b>.....428-1889</b>
	<b>BUSH Hubert H ⊕</b>	<b>.....428-1889</b>
<b>2797</b>	<b>No Information</b>	
<b>2798</b>	<b>BODDEN Irene</b>	<b>.....</b>
	<b>FERRIS Patrick M ⊕ (2)</b>	<b>.....428-2870</b>
	<b>FERRIS Patrick M</b>	<b>.....428-2870</b>
<b>2817</b>	<b>HAMBY Mart H ⊕</b>	<b>.....427-7013</b>

Sardis Street NW

1968

50

SARDIS ST NW (KENNESAW)-FROM 100  
BIG SHANTY RD SOUTHEAST

—ZIP CODE 30144

755 SMITH HAROLD A ● 428-0089

771 RAMBO WM R 428-4771

790 BUSH HUBERT H ● 428-1889

797 WOOD J LAWRENCE ● 428-3447

798 FERRIS ROBT L ● 428-2870

807 DOBBS KATH C MRS

817 HAMBY MART H ● 428-2870

—BIG SHANTY DR INTERSECTS

---

**APPENDIX D:**  
**Title Company/ Professional**  
**Documentation**

**GEC**

CHAIN OF OWNERSHIP REVIEW  
(for Environmental Phase 1 purposes)

**Job #:** 120392.240

**Date:** 6/3/12

According to the county tax assessors, records the site is composed of two tax parcels:

**1.)Tax Parcel #: 20-0138-0050**

**Owners:** Steven L. Jolivette & Bonni P. Thompson

**Address:** — Sardis St.

**Location:** Land Lot 138 of the 20<sup>th</sup> District of Cobb County

+++Tax Assessors records indicated the site is composed of 1.4 acres and is currently reported vacant.

**2.)Tax Parcel #: 20-0138-0066**

**Owners:** Steven L. Jolivette & Bonni P. Thompson

**Address:** — Sardis St.

**Location:** Land Lot 138 of the 20<sup>th</sup> District of Cobb County

+++Tax Assessors records indicated the site is composed of 1.2 acres and is currently reported vacant.

++The deed record indicated the site is composed of two tracts which was owned by the Jackson family who split the property into several tracts. Two of those tract were re-assembled under Marr & Dawson and who also purchased other tracts. The site was sold in 1996 and passed through a number of owners until deeded to the current owner in 2004.

— There are a number of easements, right of ways, agreements, etc. which were reviewed.

— The deed record did not indicate past or present property use on the site.

**= No Environmental Liens found in the deed record filed against this property for names listed in the attached chain(s)=**

**=No Activity or Use Limitations or Engineering Controls found filed in the deed record due to conditions related the properties =**

**Chain of Ownership for Tax Parcel 20-0138-0066 & 20-0138-0050**

Record #	Instrument Date	Instrument Type	Grantor	Grantee	Property Description / Notes	Book / Page
A	6/21/1940	WD	M.J. Jackson	Mariah Jackson; Elizabeth Jackson & Marie Jackson	Tract in LL 138	141/358
B1-a	7/10/1947	WD	Mariah Jackson; Elizabeth Jackson & Marie Jackson	Miss Burnette Hamby	East Tract	188/82
B1-b	1/10/1950	WD	Miss Burnette Hamby	Mrs. Jennie Franklin Carruth	East Tract	213/39
B1-c	9/23/1957	WD	Mrs. Jennie Franklin Carruth	C.G. Dawson & A.L. Marr	East Tract	213/39
B2	9/14/1963	WD	Marie Jackson Little; Elizabeth Jackson Stoner; Roscoe Hill; Boise Hill; et.al. (heirs at law of Mariah Jackson Hill)	A.L. Marr & C.G. Dawson	Tract shown on PB 26/197	731/245
C	5/17/1974	WD	C.G. Dawson	A.L. Marr	½ interest in Tracts in LL 138	1529/381
D	2/2/1984	Will	Ausbon L. Marr	Cladis L. Marr	All property	Estate file 84-P-0137-01
E	12/31/1996	Executors	The Executrix of the Estate of Cladis L. Marr (a/k/a Mrs. A.L. Marr)	Gladys Mae (Bobbie) Marr Elzroth & Emma Jane Canup	2 Tracts (less & except)	10109/82
F1	3/9/1999	WD	Gladys M. Elzroth & Emma Jane Marr Canup	Raymond D. East, Jr.	Tract 2 along Sardis Rd. (less & except)	12302/1022
F2	7/21/2004	Corrective WD	Gladys M. Elzroth & Emma Jane Marr Canup	Raymond D. East, Jr.	Tract 1; PB 27/1 & Tract 2 (less & except)	14015/1022
G	7/23/2004	WD	Raymond D. East, Jr.	Steven L. Jolivette and Bonni P. Thompson	Tract 1; PB 27/1 & Tract 2 (less & except)	14018/4147

Janice Burns King

Deed Book 14018 Pg 4147  
Filed and Recorded Jul-28-2004 04:25pm  
2004-0142393  
Real Estate Transfer Tax \$265.00

Jay C. Stephenson  
Jay C. Stephenson  
Clerk of Superior Court Cobb Cty. Ga.

1402

WARRANTY DEED

STATE OF GEORGIA

COBB COUNTY

THIS INDENTURE, made this 23<sup>rd</sup> day of July, 2004, between

**RAYMOND D. EAST, JR.**

of the State of Georgia and County of Cobb as party or parties of the first part, hereinafter called Grantor, and

**STEVEN L. JOLIVETTE and BONNI P. THOMPSON,**  
as Joint Tenants with Rights of Survivorship (and not as Tenants in Common)

of the State of Florida and County of Bay as party or parties of the second part, hereinafter called Grantee (the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits).

WITNESSETH that the said Grantor, for and in consideration of the sum of TEN DOLLARS AND OTHER VALUABLE CONSIDERATION in hand paid at and before the sealing and delivery of these receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed, and by these presents does grant, bargain, sell and convey unto the said Grantee,

**ALL THAT TRACT OR PARCEL OF LAND** lying and being in Land Lot 138, 20th District, 2nd Section, in the City of Kennesaw, Cobb County, Georgia, and being more particularly described on the Exhibit "A" (consisting of 2 pages) attached hereto and incorporated herein by this reference.

This property is known as the Sardis Street (fka Ball Ground St.) property, Kennesaw, GA

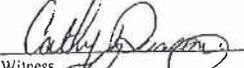
TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging or in any wise appertaining, to the only proper use, benefit and behoof of said Grantee forever, IN FEE SIMPLE.

AND THE SAID Grantor will warrant and forever defend the right and title to the above described property unto the said Grantee against the claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantors have hereunto set their hands and affixed their seals, the day and year above written.

 (Seal)  
**RAYMOND D. EAST, JR.**

Signed and sealed in the presence of

  
Witness  
  
Notary Public  
N.P. Seal



TRACT 1:

All that tract or parcel of land lying and being in the City of Kennesaw in Land Lot 138 of the 20th District, 2nd Section of Cobb County, Georgia, a survey and plat of said property being made by John M. Lord, Surveyor, dated August 13, 1963, recorded in Plat Book 27, page 1, Cobb County Records; said property being more particularly described as follows:

BEGINNING at a point located on the northerly side of the Old U. S. 41 Highway a distance of 173 feet southeastwardly from the intersection formed by the easterly side of Sardis Street with the northerly side of the Old U. S. 41 Highway as shown on aforesaid plat; running thence North 18 degrees 22 minutes West a distance of 426.1 feet to a point; thence South 73 degrees 34 minutes East a distance of 421.5 feet to a point located at the northwest corner of the George E. Taylor and Jessie M. Taylor property; thence South 29 degrees 51 minutes West along the westerly side of the said George E. Taylor and Jessie M. Taylor property a distance of 287.5 feet to a point located at the northeast corner of this Otis Bookins property (the Otis Bookins property mentioned herein in this property shown by survey and plat of same by Herritt and Walker, Engineers, recorded in Plat Book 26, page 197, Cobb County Records); thence South 14 degrees 32 minutes West a distance of 190 feet to a point located on the northerly side of the Old U. S. 41 Highway and at the southwest corner of said Otis Bookins property; thence North 38 degrees 38 minutes West along the northerly side of the Old U. S. 41 Highway a distance of 118.3 feet to the point of beginning.

The above-described property is a portion of the property conveyed by M. J. Jackson to Mariah Jackson, Elizabeth Jackson and Marie Jackson by Warranty Deed dated June 21, 1940, and recorded in Deed Book 141, Page 388, Cobb County Records; a Plat of the Mariah Jackson, Elizabeth Jackson and Marie Jackson property made by Herritt and Walker, Engineers, is recorded in Plat Book 26, Page 197, Cobb County Records.

TRACT 11:

All that tract or parcel of land lying and being in Cobb County, Georgia, and in the Town of Kennesaw, and in Land Lot No. 138, 20th District and 2nd Section, and more particularly described as follows:

COMMENCING at a point on the East side of Ball Ground Street and at the Southwest corner of the Janie Oliver lot and running Easterly along the Janie Oliver Land 150 feet, more or less, to the center of a spring; thence on Easterly 50 feet, more or less, along the center of the branch to an iron stake; thence Southerly along the property of Mariah Jackson, et al. 420 feet, more or less, to U. S. Highway No. 41; thence Westerly along U. S. Highway No. 41, 200 feet, more or less, to Ball Ground Street; thence Northerly along the East side of Ball Ground Street 350 feet, more or less, to point of beginning.

This being the same property as that conveyed by Miss Burnette Healy to Mrs. Jennie Franklin Carruth by Warranty Deed dated January 10, 1950, and recorded in Deed Book 213, page 39, Cobb County Records.

Exhibit "A" (Page 1 of 2)

LESS AND EXCEPT:

All that tract or parcel of land lying and being in Land Lot 138 of the 20th District, 2nd Section, Cobb County, Georgia, and being in the Town of Kennesaw and being more particularly described as follows:

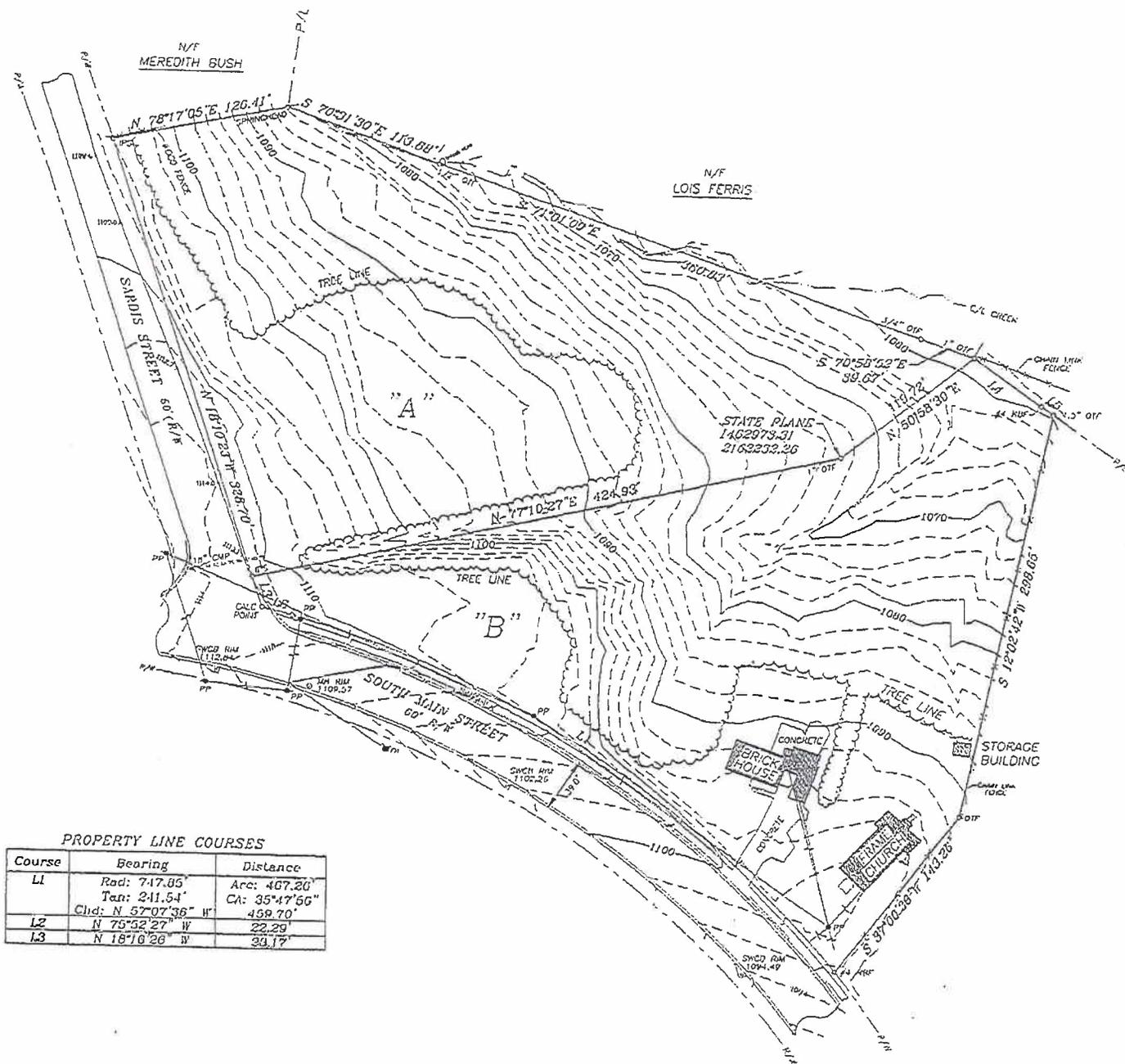
BEGINNING on the easterly side of Ball Ground Street at the northwest corner of property conveyed to C. G. Dawson and A. L. Marr by Mrs. Jennie Franklin Carruch by Warranty Deed dated September 23, 1957, and recorded in Deed Book 426, page 251, Cobb County Records, being also the southwestern corner of property now or formerly known as the Janie Oliver Lot, and running thence southerly along the easterly side of Ballground Street for a distance of 48 feet to a point and corner; thence running easterly in a straight line for a distance of 150 feet, more or less, to the center of a spring located on the northerly line of said property conveyed to C. G. Dawson and A. L. Marr by Jennie Franklin Carruch; thence running in a westerly and northwesterly direction along the northerly line of said property conveyed by Mrs. Jennie Franklin Carruch for a distance of 130 feet, more or less, to the easterly side of Ball Ground Street and the point of beginning. This being a triangular shaped lot off of the northerly side of the property conveyed to C. G. Dawson and A. L. Marr by Mrs. Jennie Franklin Carruch by Warranty Deed dated September 23, 1957, and recorded in Deed Book 426, page 251, Cobb County Records. Said triangular shaped lot fronting 48 feet on Ball Ground Street.

AND LESS AND EXCEPT:

All that tract or parcel of land lying and being in Land Lot 138 of the 20th District, 2nd Section, Cobb County, Georgia, and being more particularly described as follows:

BEGINNING at a point on the northeasterly right of way of State Route 293, having a 60 foot right of way, where said right of way intersects the extended northeast right of way of Sardis Street, having a 50 foot right of way; running thence North 45 degrees 04 minutes 07 seconds West 39.84 feet to a nail; thence North 78 degrees 39 minutes 48 seconds East 424.83 feet to an iron pin; thence South 33 degrees 50 minutes 02 seconds West 179.45 feet to an iron pin; thence south 17 degrees 52 minutes 15 seconds West 100 feet to a point on the northeast right of way of State Route 293; thence northwesterly along said right of way on an arc 293.30 feet to the POINT OF BEGINNING; said arc having a radius of 746.20 feet and a chord running North 62 degrees 23 minutes 50 seconds West 291.39 feet, all comprising 0.966 acres, as is more particularly shown on that plat of survey for Rev. John E. Head, Sr., Pastor of Gates of Praise Tabernacle, by Guy B. Wells, III, R.L.S., dated April 2, 1983, which plat is incorporated herein by reference for a more complete description thereof.

Exhibit "A" (Page 2 of 2)



PROPERTY LINE COURSES

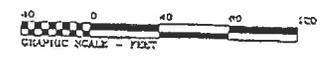
Course	Bearing	Distance
L1	S 61°17'40" E	58.79
L5	S 55°10'03" E	10.29

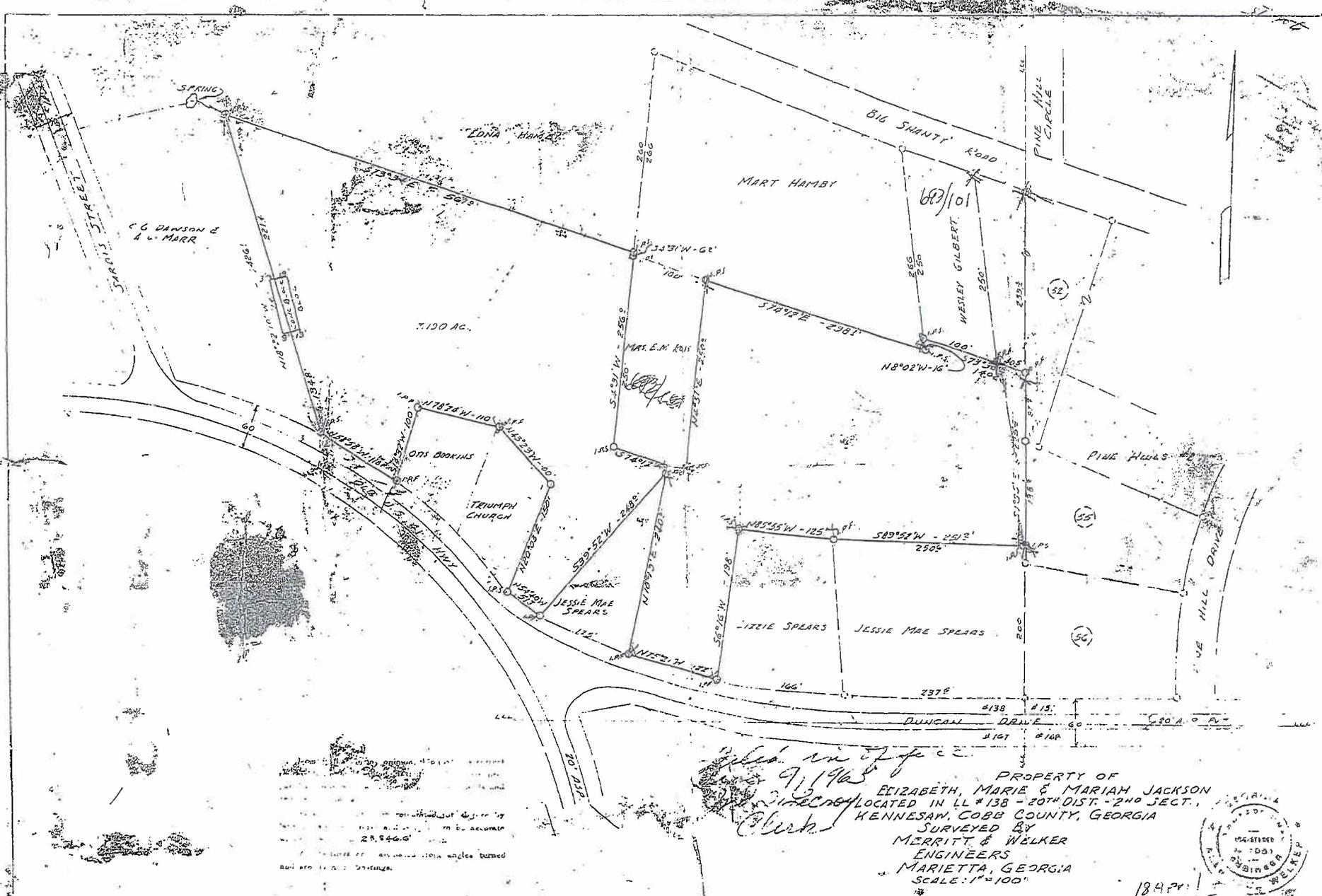
TRACT "A" CONTAINS  
2.654 ACRES

TRACT "B" CONTAINS  
2.489 ACRES

PROPERTY LINE COURSES

Course	Bearing	Distance
L1	Rad: 717.85 Tan: 241.54 Chd: N 57°07'36" W	Arc: 467.26 Ch: 35°47'56" 459.70
L2	N 75°32'27" W	22.29
L3	N 18°10'26" W	39.17





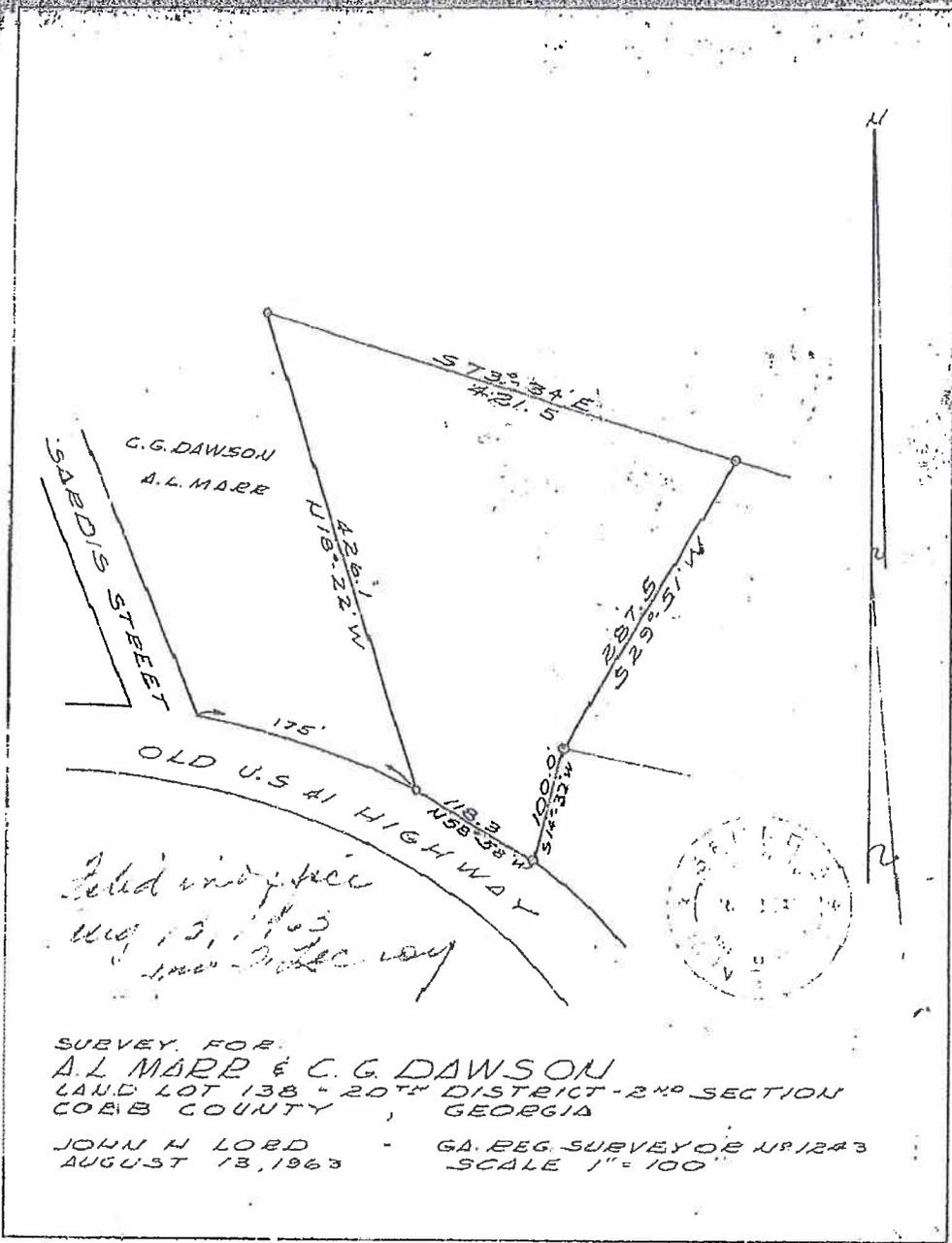
This map was prepared by  
 Merritt & Welker Engineers  
 Marietta, Georgia  
 from a field book of  
 23,846.6  
 and other data furnished by  
 the owner. All angles turned  
 are to the right.

Filed in office  
 9/1/1965  
 Clerk

PROPERTY OF  
 ELIZABETH, MARIE & MARIAM JACKSON  
 LOCATED IN LL #138 - 20<sup>th</sup> DIST. - 2<sup>nd</sup> SECT.,  
 KENNESAW, COBB COUNTY, GEORGIA  
 SURVEYED BY  
 MERRITT & WELKER  
 ENGINEERS  
 MARIETTA, GEORGIA  
 SCALE: 1" = 100'



184 P.



SUBVEY FOR  
**A. L. MARR & C. G. DAWSON**  
 LAND LOT 138 - 20<sup>TH</sup> DISTRICT - 2<sup>ND</sup> SECTION  
 COBB COUNTY, GEORGIA

JOHN H. LORD - GA. REG. SURVEYOR NO. 1243  
 AUGUST 13, 1963 - SCALE 1" = 100'

Deed Book 13955 Pg 5998  
Filed and Recorded Apr-08-2004 10:00am  
2004-0065058  
Real Estate Transfer Tax 10.00

Easement

STATE OF GEORGIA,

Name of Line.

*04. T. J. Stephenson*  
Kennesaw, 11805 KY Stephenson

Cobb COUNTY

Account No.

Clerk of Superior Court Cobb Cty. Ga.  
1710-11-001708

Received of GEORGIA POWER COMPANY, hereinafter called the Company, the sum of One Dollar (\$1.00), in consideration of which Raymond O. East, Jr. (Undersigned) whose Post Office Address is 480 N. Fairground Rd Marietta, GA 30067 do(es) hereby grant and convey to said Company, its successors and assigns, the right, privilege and easement to go in, upon, along, across and under that tract of land owned by the Undersigned in Land Lot(s) Number 138 of the 20<sup>th</sup> Dist Land District, Cobb County, State of Georgia, known as Parcel # 66

(said address) and said lands being more particularly described on a plat marked "Exhibit A" attached hereto and made a part hereof, together with the right to construct, operate, and maintain nonferrously upon and under said land, its lines for transmitting electric current, with poles, wires, transformers, service pedestals, and other necessary apparatus, fixtures and appliances, including the right to stretch communication wires (for the purpose of communication between and among Company's other distribution and transmission facilities) on said poles, or under said lands with necessary appliances with the right to permit the attachment of the wires and appliances of any other company, or person with whom the Company has a non-exclusive contractual agreement governing such attachment to said poles; together with the right at all times to enter upon said premises for the purpose of inspecting said lines, making repairs, renewals, alterations and extensions thereon, the removal, change or relocation; together with the right to the entry and heap clear of said overhead or underground lines, transmission fixtures and appliances, all trees and other obstructions that may in the opinion of the Company now or hereafter in any way interfere or be likely to interfere with the proper operation of said overhead or underground lines, transformers, fixtures, and appliances; also the right of ingress and egress over said land to and from said lines. Any timber cut on said land by or for said Company shall remain the property of the owner of said timber.

The undersigned does not own any land, but hereby grants the non-exclusive rights, privileges and easements hereinbefore set out. Company understands and agrees that it does not have the right to permit any other individual or entity (with the exception of those with which Company has a pole attachment agreement) to use the easement. Additionally, Company understands and agrees that Undersigned, as the underlying property owner, continues to have all rights of use which do not interfere with Company's ability to access the easement or Company's facilities on the easement.

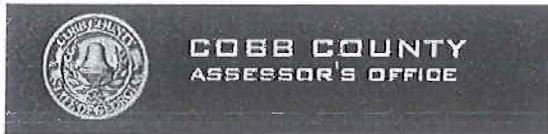
Said Company shall not be liable for nor bound by any statement, agreement or understanding not herein expressed.  
IN WITNESS WHEREOF, the said Raymond O East Jr  
has hereunto set his hand(s) and seal(s) this 21 day of November, 20 02.

Signed, sealed and delivered in the presence of:  
[Signature] (SEAL)  
Witness Raymond O. East Jr (SEAL)  
Raymond O. East Sr  
Notary Public

(This easement is to be signed in the presence of two (2) witnesses, one of whom must be a Notary Public.)

John R. Ragland  
JOHN R. RAGLAND, NOTARY  
MY COMMISSION EXPIRES 01-14-2006  
N.P. SEAL





Tax Commissioner > County > State

Home Property Appraisal Search Job Opportunities Tax Maps

Owner Name Address Account/Legal Forms and Applications Tax Estimator Links

- ▶ Profile
- Values
- Sales
- Residential
- Commercial
- Sketch
- Photo
- Map
- History
- Tax Information

20013800500

JOLIVETTE STEVEN L AND THOMPSON BONNI P

2011

SARDIS ST

CURRENT RECORD

1 of 1

**Parcel**

Class	Commercial Small Tracts
Total Acres	1.4
Total Land Sqft	60984
Address	SARDIS ST
Neighborhood	30C -

**Owner**

Owner JOLIVETTE STEVEN L & THOMPSON BONNI P

**Legal**

Tax District	3 - KENNESAW
Subdivision Number	

REPORTS

Composite Report  
 2012 Notice of Assessr  
 2011 Notice of Assessr  
 2010 Notice of Assessr



Printable Summary

Printable Version

Disclaimer

---

Ownership/Appraisal Data is based on the 2011 Tax Digest Date of Jan. 1, 2011. Any purchases of property after 1/1/2011 will not display until the 2012 Tax Digest is posted in July 2012

The Tax Assessor makes every effort to produce the most accurate information possible. No warranties, expressed or implied are provided for the data herein, its use or interpretation. The assessment information is updated periodically and may or may not represent changes either in ownership or physical characteristics from the last certified tax roll. All other data is subject to change.

By accessing records on this website, I agree to these terms and conditions.

Data Copyright Cobb County Assessor's Office [Disclaimer] [Privacy Policy] Last Updated: 13 May 2012

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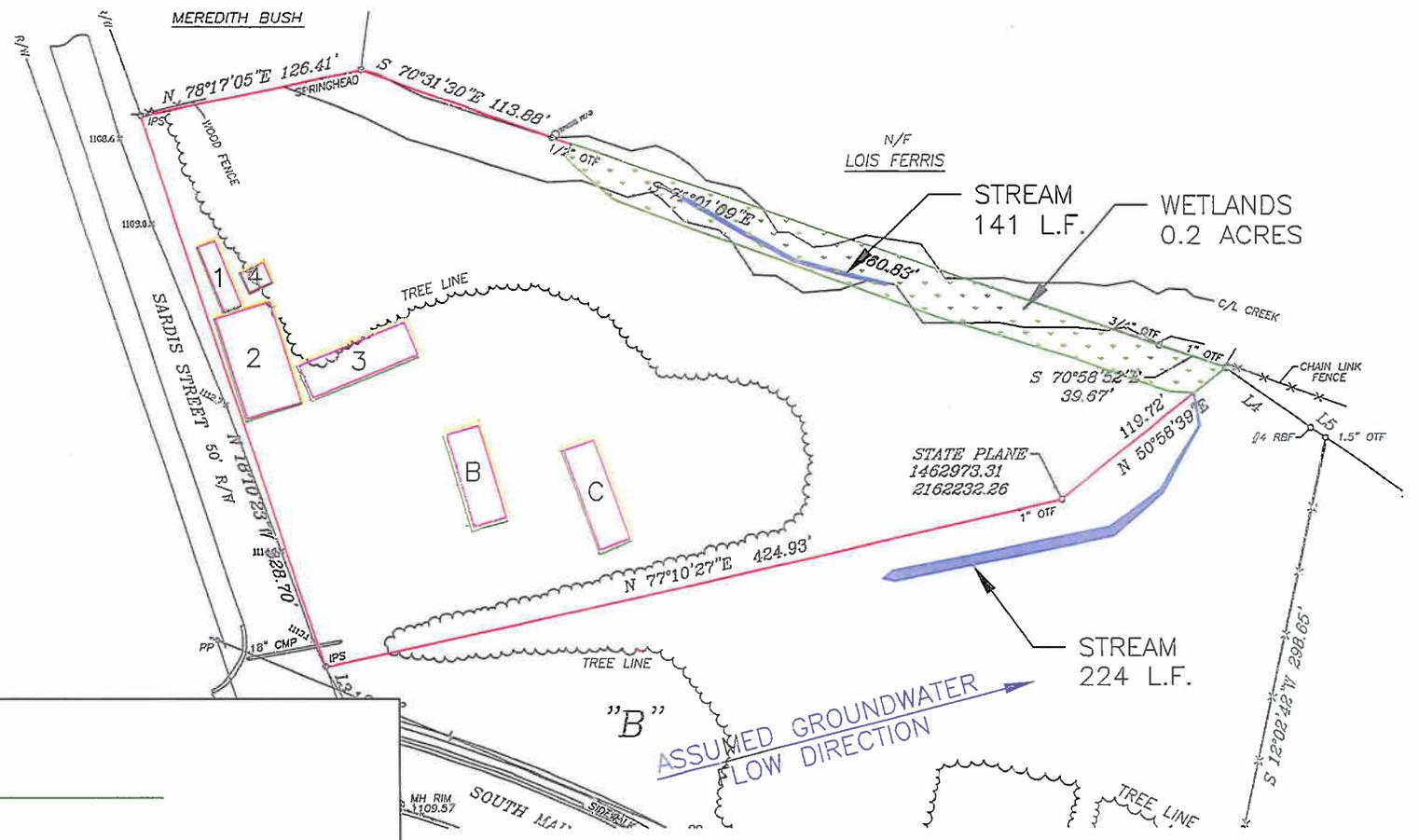


# **APPENDIX E**

## **Non-Scope Testing**

**(Lead based paint, Lead in soil, Lead in water, Asbestos, Radon,  
Vapor Encroachment)**

**GEC**



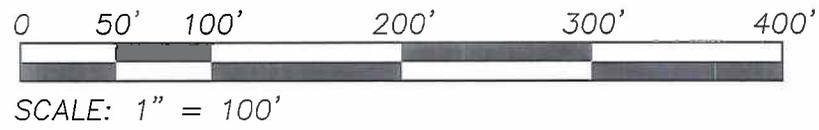
**LEGEND:**

SIDES A & B:

SIDES C & D:

STRUCTURE FOOT PRINT:

PROPERTY LINE:



**Lead in Soil Sample Map  
Villas at Stanford  
Kennesaw, County, Georgia  
GEC Project No. 120392.240**

**GEC**  
GEOTECHNICAL  
&  
ENVIRONMENTAL  
CONSULTANTS, INC.

514 HILLCREST INDUSTRIAL BLVD.  
MACON, GEORGIA 31204  
478-757-1606 (Fax) 478-757-1608  
WWW.GECONSULTANTS.COM



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 07, 2012

Tameka Gordon  
GeoTechnical & Env. Consultants, Inc.  
514 Hillcrest Industrial Blvd  
Macon GA 31204

TEL: (478) 757-1606  
FAX: (478) 757-1608

RE: The Villas @ Stanford

Dear Tameka Gordon:

Order No: 1206204

Analytical Environmental Services, Inc. received 12 samples on 6/4/2012 11:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai  
Project Manager



# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

## CHAIN OF CUSTODY

Work Order: 1206204

Date: \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

COMPANY: <b>GEL</b>		ADDRESS: 514 Hillcrest Industrial Palo Alto CA 94304					ANALYSIS REQUESTED					Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.	No # of Containers	
PHONE:		FAX:					PRESERVATION (See codes)							REMARKS
SAMPLED BY: <i>David Price</i>		SIGNATURE: <i>[Signature]</i>												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)					REMARKS		
		DATE	TIME											
1	Ken 1 A+B	5/30/12			✓	Soil	/							
2	Ken 1 C+D	↓					/							
3	Ken 2 A+B	↓					/							
4	Ken 2 C+D	↓					/							
5	Ken 3 A+B	↓					/							
6	Ken 3 C+D	↓					/							
7	Ken 4 A+B	↓					/							
8	Ken 4 C+D	↓					/							
9	Ken B A+B	↓					/							
10	Ken B C+D	↓					/							
11	Ken C A+B	↓					/							
12	Ken C C+D	↓					/							
13														
14														
RELINQUISHED BY: <i>David Price</i>		DATE/TIME: 6/1/12 1700	RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 6/4/12 11:40	PROJECT INFORMATION					RECEIPT			
1:			2:			PROJECT NAME: <i>The Villas @ Stanford</i>					Total # of Containers			
2:			3:			PROJECT #: <i>120392-240</i>					<input type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush, (with req.) <input checked="" type="radio"/> Other <i>3 day</i>			
3:						SITE ADDRESS:								
						SEND REPORT TO: <i>T Gordon @ gge consultants</i>								
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD					INVOICE TO:					STATE PROGRAM (if any): _____		
		OUT / / VIA:					(IF DIFFERENT FROM ABOVE)					E-mail? Y/N; Fax? Y/N		
		IN / / VIA:					QUOTE #: _____ PO#: _____					DATA PACKAGE: I II III IV		
		CLIENT FedEx UPS MAIL COURIER												
		GREYHOUND OTHER _____												

Page 2 of 15

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.  
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)  
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 1 A+B
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	18.5	5.80		mg/Kg-dry	162288	1	06/05/2012 20:50	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.7	0		wt%	R222688	1	06/06/2012 12:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 1 C+D
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	16.9	6.23		mg/Kg-dry	162288	1	06/05/2012 20:53	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.0	0		wt%	R222688	1	06/06/2012 12:00	AS

Qualifiers:

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 2 A+B
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	12.6	5.80		mg/Kg-dry	162288	1	06/05/2012 20:56	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.6	0		wt%	R222688	1	06/06/2012 12:00	AS

Qualifiers:

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 2 C+D
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	25.9	6.02		mg/Kg-dry	162288	1	06/05/2012 20:59	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.1	0		wt%	R222688	1	06/06/2012 12:00	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 3 A+B
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	12.2	5.69		mg/Kg-dry	162288	1	06/05/2012 21:02	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.2	0		wt%	R222688	1	06/06/2012 12:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 3 C+D
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	9.36	5.72		mg/Kg-dry	162288	1	06/05/2012 21:05	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.4	0		wt%	R222688	1	06/06/2012 12:00	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 4 A+B
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	36.4	5.82		mg/Kg-dry	162288	1	06/05/2012 21:08	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.8	0		wt%	R222688	1	06/06/2012 12:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN 4 C+D
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-008	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	34.8	5.97		mg/Kg-dry	162288	1	06/05/2012 21:11	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.5	0		wt%	R222688	1	06/06/2012 12:00	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN B A+B
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-009	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	BRL	5.35		mg/Kg-dry	162288	1	06/05/2012 21:14	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.03	0		wt%	R222688	1	06/06/2012 12:00	AS

Qualifiers: \* Value exceeds maximum contaminant level  
 BRL Below reporting limit  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 > Greater than Result value  
 E Estimated (value above quantitation range)  
 S Spike Recovery outside limits due to matrix  
 Narr See case narrative  
 NC Not confirmed  
 < Less than Result value  
 J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN B C+D
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	BRL	5.41		mg/Kg-dry	162288	1	06/05/2012 21:26	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.80	0		wt%	R222688	1	06/06/2012 12:00	AS

Qualifiers:

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN C A+B
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	12.3	6.18		mg/Kg-dry	162288	1	06/05/2012 21:29	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	23.4	0		wt%	R222688	1	06/06/2012 12:00	AS

Qualifiers:

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 7-Jun-12

<b>Client:</b> GeoTechnical & Env. Consultants, Inc.	<b>Client Sample ID:</b> KEN C C+D
<b>Project Name:</b> The Villas @ Stanford	<b>Collection Date:</b> 5/30/2012
<b>Lab ID:</b> 1206204-012	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Lead	12.0	6.04		mg/Kg-dry	162288	1	06/05/2012 21:32	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.1	0		wt%	R222688	1	06/06/2012 12:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client 6 EC Work Order Number 1206204

Checklist completed by PT Signature Date 6/4/12

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? PT 6/4/12 Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 ambient Cooler #2  Cooler #3  Cooler #4  Cooler #5  Cooler #6

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Sample Condition: Good  Adjusted?  Other(Explain)  Checked by

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

# **EDR Vapor Encroachment**

**GEC**

**The Villas At Stanford**

Sardis Street, NW  
Kennesaw, GA 30144

Inquiry Number: 3330087.8s

May 25, 2012

## **EDR Vapor Encroachment Screen**

Prepared using EDR's Vapor Encroachment Worksheet



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Primary Map .....	2
Secondary Map .....	3
Aerial Photography .....	4
Map Findings .....	5
Record Sources and Currency .....	GR-1

***Thank you for your business.***  
 Please contact EDR at 1-800-352-0050  
 with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Maximum Search Distance*	Summary		
		property	1/10	1/10 - 1/3
Federal NPL	0.333	0	0	0
Federal CERCLIS	0.333	0	0	1
Federal RCRA CORRACTS facilities list	0.333	0	0	0
Federal RCRA TSD facilities list	0.333	0	0	0
Federal RCRA generators list	property	0	-	-
Federal institutional controls / engineering controls registries	property	0	-	-
Federal ERNS list	property	0	-	-
State and tribal - equivalent NPL	not searched	-	-	-
State and tribal - equivalent CERCLIS	0.333	0	0	0
State and tribal landfill / solid waste disposal	0.5	0	0	0
State and tribal leaking storage tank lists	0.333	0	1	2
State and tribal registered storage tank lists	property	0	-	-
State and tribal institutional control / engineering control registries	0.5	0	0	0
State and tribal voluntary cleanup sites	0.333	0	0	0
State and tribal Brownfields sites	0.333	0	0	0
Other Standard Environmental Records	0.333	0	1	3

HISTORICAL USE RECORDS				
Former manufactured Gas Plants	0.333	0	0	0
Historical Gas Stations	0.25	0	0	0
Historical Dry Cleaners	0.25	0	0	0

\*Each category may include several separate databases, each having a different search distance. For each category, the table reports the maximum search distance applied. See the section 'Record Sources and Currency' for information on individual databases.

# EXECUTIVE SUMMARY

## TARGET PROPERTY INFORMATION

### ADDRESS

THE VILLAS AT STANFORD  
SARDIS STREET, NW  
KENNESAW, GA 30144

### COORDINATES

Latitude (North):	34.0212 - 34° 1' 16.313782"
Longitude (West):	84.6112 - 84° 36' 40.31433"
Elevation:	1104 ft. above sea level

# EXECUTIVE SUMMARY

## PHYSICAL SETTING INFORMATION

Flood Zone: YES  
 NWI Wetlands: YES

## AQUIFLOW®

Search Radius: 0.333 Mile.

Map ID  
 Direction  
 Distance  
 Elevation

			Database	EDR ID Number
<b>1</b> <b>WSW</b> <b>&lt; 1/10 mile</b> <b>Lower</b>	Site ID:	0-330116		
	Groundwater Flow:	NW	AQUIFLOW	26881
	Shallow Water Depth:	4.27		
	Deep Water Depth:	7.23		
	Average Water Depth:	Not Reported		
	Date:	04/03/1998		
<b>1G</b> <b>WSW</b> <b>&lt; 1/10 mile</b> <b>Lower</b>	Site ID:	0-330116		
	Groundwater Flow:	NW	AQUIFLOW	26881
	Shallow Water Depth:	4.27		
	Deep Water Depth:	7.23		
	Average Water Depth:	Not Reported		
	Date:	04/03/1998		

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Pacolet  
 Soil Surface Texture: clay  
 Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.  
 Soil Drainage Class: Well drained

## EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	3 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	29 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5
3	51 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5
4	0 inches	3 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5

### Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture: clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:

## EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 200 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 3

Soil Component Name: Cecil

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	50 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	7 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

## EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

### Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 200 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 5

Soil Component Name: Pacolet

Soil Surface Texture: clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	3 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5
2	29 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5
3	51 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5
4	0 inches	3 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5

### Soil Map ID: 6

Soil Component Name: Madison

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

**Soil Map ID: 7**

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

## EXECUTIVE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

**Soil Map ID: 8**

Soil Component Name: Cartecay

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

## EXECUTIVE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
2	9 inches	40 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
3	40 inches	59 inches	stratified sand to loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1

### Soil Map ID: 9

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

**Soil Map ID: 10**

Soil Component Name: Toccoa

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 114 inches

## EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 5.1
2	9 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 5.1

**Soil Map ID: 11**

Soil Component Name: Madison

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

## EXECUTIVE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

# EXECUTIVE SUMMARY

## SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

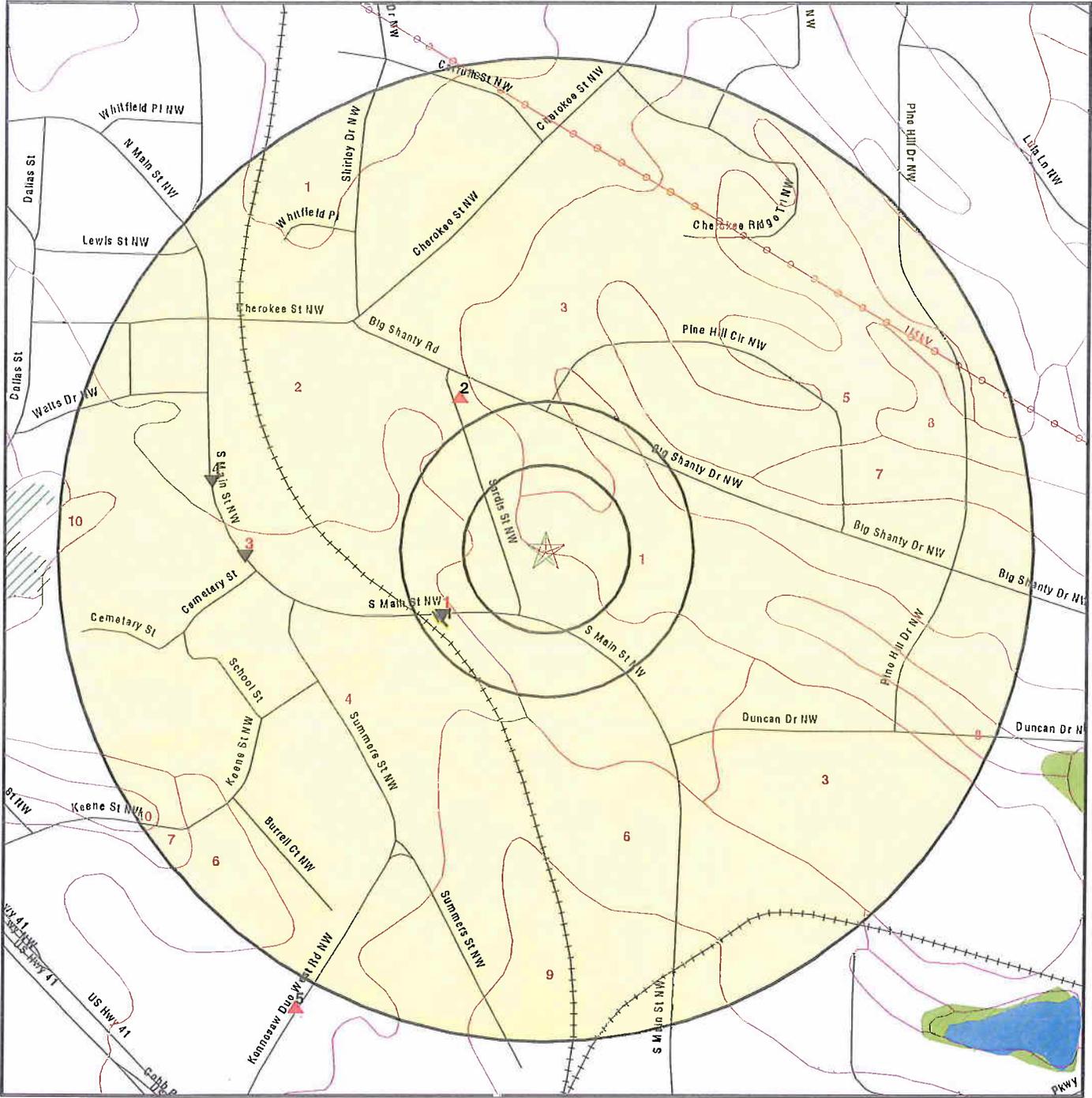
## STANDARD ENVIRONMENTAL RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
GENERAL STORE FINANCIAL ASSURANCE: Other Standard Environmental Records LUST: State and tribal leaking storage tank lists UST: State and tribal registered storage tank lists	2742 S MAIN ST	<1/10 WSW	▼ 1	19
SARDIS ROAD CREOSOTE SITE CERCLIS: Federal CERCLIS FINDS: Other Standard Environmental Records	SARDIS ROAD	1/10 - 1/3 NNW	▲ 2	23
BIG SHANTY SUPERETTE #8 FINDS: Other Standard Environmental Records LUST: State and tribal leaking storage tank lists	2778 SOUTH MAIN ST	1/10 - 1/3 W	▼ 3	26
KENNESAW TEXACO FINANCIAL ASSURANCE: Other Standard Environmental Records LUST: State and tribal leaking storage tank lists UST: State and tribal registered storage tank lists	2820 SOUTH MAIN ST	1/10 - 1/3 WNW	▼ 4	27
COMPLETE P.C. RECYCLING SWRCY: State and tribal landfill / solid waste disposal	2641A KENNESAW DUE WEST ROAD, N.W.	1/3 - 1/2 SSW	▲ 5	33

## HISTORICAL USE RECORDS

<u>Name</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>	<u>Page</u>
Not Reported				

# PRIMARY MAP - 3330087.8s

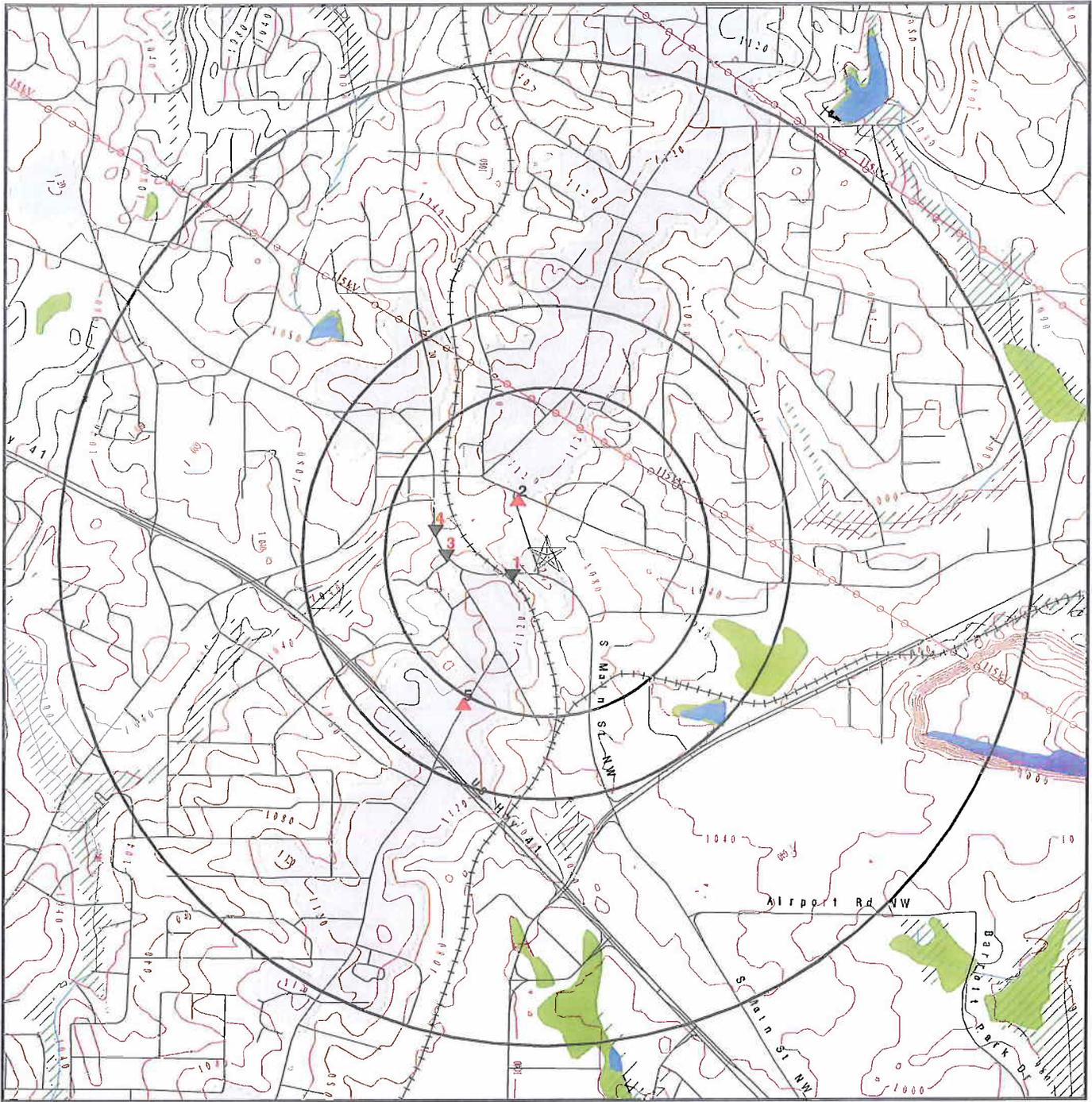


- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ▼ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- ☠ National Priority List Sites
- ☠ Dept. Defense Sites
- 🏠 Indian Reservations BIA
- ⚡ Power transmission lines
- 🛢️ Oil & Gas pipelines from USGS
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- ➡ Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- ⚡ SSURGO Soil

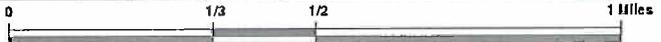
**SITE NAME:** The Villas At Stanford  
**ADDRESS:** Sardis Street, NW  
 Kennesaw GA 30144  
**LAT/LONG:** 34.0212 / 84.6112

**CLIENT:** Geotechnical & Envtl. Cons.  
**CONTACT:** Greta Woods  
**INQUIRY #:** 3330087.8s  
**DATE:** May 24, 2012 3:27 pm

# SECONDARY MAP - 3330087.8s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ▼ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations BIA
- Contour Lines
- Power transmission lines
- Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- Upgradient Area



**SITE NAME:** The Villas At Stanford  
**ADDRESS:** Sardis Street, NW  
 Kennesaw GA 30144  
**LAT/LONG:** 34.0212 / 84.6112

**CLIENT:** Geotechnical & Env'tl. Cons.  
**CONTACT:** Greta Woods  
**INQUIRY #:** 3330087.8s  
**DATE:** May 24, 2012 3:25 pm

**AERIAL PHOTOGRAPHY - 3330087.8s**



**SITE NAME:** The Villas At Stanford  
**ADDRESS:** Sardis Street, NW  
Kennesaw GA 30144  
**LAT/LONG:** 34.0212 / 84.6112

**CLIENT:** Geotechnical & Envtl. Cons.  
**CONTACT:** Greta Woods  
**INQUIRY #:** 3330087.8s  
**DATE:** May 24, 2012 3:29 pm

MAP FINDINGS

LEGEND

FACILITY NAME FACILITY ADDRESS, CITY, ST, ZIP		EDR SITE ID NUMBER
▼ MAP ID#	Direction Distance Range (Distance feet / miles)	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.
	Relative Elevation Feet Above Sea Level	
<b>Worksheet:</b>		
<b>Comments:</b> Comments may be added on the online Vapor Encroachment Worksheet.		

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

GENERAL STORE 2742 S MAIN ST, KENNESAW, GA, 30152		1006779420
▼ 1	WSW <1/10 (440 ft. / 0.083 mi.)	State and tribal leaking storage tank lists
	3 ft. Lower Elevation 1101 ft. Above Sea Level	State and tribal registered storage tank lists Other Standard Environmental Records

**Worksheet:**

**Impact on Target Property:** VEC Can Be Ruled Out

**Groundwater Flow Gradient:**

Downgradient: YES

**GA FINANCIAL ASSURANCE: Other Standard Environmental Records**

Region: 1  
 Facility ID: 9000423  
 Financial Responsibility: G.U.S.T. Trust Fund

**LUST: State and tribal leaking storage tank lists**

Facility ID: 09000423  
 Leak ID: 1  
 Description: Confirmed Release Received  
 Cleanup Status: NFA - Remediation  
 Date Received: 09/09/1993  
 Project Officer: Coughlan, Michael F

Facility ID: 09000423  
 Leak ID: 1  
 Description: Suspected Release Received  
 Cleanup Status: NFA - Remediation  
 Date Received: 11/09/1989  
 Project Officer: Coughlan, Michael F

## GENERAL STORE, 2742 S MAIN ST, KENNESAW, GA 30152 (Continued)

## Facility: State and tribal registered storage tank lists

Facility Id: 9000423  
 Facility Status: Closed  
 Facility Type: Gas Station  
 District: PIRT 7  
 Contact Id: 7204  
 Owner Name: J E POORE  
 Owner Address: 1471 WOOD PARK WY  
 Owner City: KENNESAW  
 Owner State: GA  
 Owner Zip: 30144  
 Owner City,St,Zip: KENNESAW, GA 30144  
 Owner Telephone: 770-429-8187

## Tanks:

Facility ID: 9000423  
 Tank ID: 1  
 Status Date: 08/01/1988  
**Status: Cathodically Prot**  
 Product1: Gas  
 Material: Steel-Galvanic  
 Capacity: 4000  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: 06/20/1997  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
 Tank ID: 1  
 Status Date: 08/24/1988  
**Status: Installed**  
 Product1: Gas  
 Material: Steel-Galvanic  
 Capacity: 4000  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: 06/20/1997  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
 Tank ID: 1  
 Status Date: 03/01/1999  
**Status: Removed From Ground**

MAP FINDINGS

GENERAL STORE, 2742 S MAIN ST, KENNESAW, GA 30152 (Continued)

Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 2  
Status Date: 08/01/1988  
**Status: Cathodically Prot**  
Product1: Diesel  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 2  
Status Date: 08/24/1988  
**Status: Installed**  
Product1: Diesel  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 2  
Status Date: 03/01/1999  
**Status: Removed From Ground**  
Product1: Diesel  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: 06/20/1997

MAP FINDINGS

GENERAL STORE, 2742 S MAIN ST, KENNESAW, GA 30152 (Continued)

Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
 Tank ID: 3  
 Status Date: 08/01/1988  
**Status: Cathodically Prot**  
 Product1: Gas  
 Material: Steel-Galvanic  
 Capacity: 4000  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: 06/20/1997  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
 Tank ID: 3  
 Status Date: 08/24/1988  
**Status: Installed**  
 Product1: Gas  
 Material: Steel-Galvanic  
 Capacity: 4000  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: 06/20/1997  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
 Tank ID: 3  
 Status Date: 03/01/1999  
**Status: Removed From Ground**  
 Product1: Gas  
 Material: Steel-Galvanic  
 Capacity: 4000  
 Pipe Material: Fiberglass Reinforced Plastic  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: 06/20/1997  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: 06/20/1997

MAP FINDINGS

SARDIS ROAD CREOSOTE SITE SARDIS ROAD, KENNESAW, GA, 30144		1001126489
▲ 2	NNW 1/10 - 1/3 (623 ft. / 0.118 mi.)	Federal CERCLIS
	1 ft. Higher Elevation 1105 ft. Above Sea Level	Other Standard Environmental Records

**Worksheet:**

**Impact on Target Property:** VEC Cannot Be Ruled Out

**Conditions:**

Chemicals of Concern: YES

**Groundwater Flow Gradient:**

Upgradient or Indeterminate: YES

**CERCLIS: Federal CERCLIS**

Site ID: 0406635  
 EPA ID: GA0001878719  
 Facility County: COBB  
 Short Name: SARDIS ROAD CREOSOTE SITE  
 Congressional District: 07  
 IFMS ID: Not Reported  
 SMSA Number: 0520  
 USGC Hydro Unit: 03130002  
 Federal Facility: Not a Federal Facility  
 DMNSN Number: 2.00000  
 Site Orphan Flag: N  
 RCRA ID: Not Reported  
 USGS Quadrangle: Not Reported  
 Site Init By Prog: Not Reported  
 NFRAP Flag: Not Reported  
 Parent ID: Not Reported  
 RST Code: Not Reported  
 EPA Region: 04  
 Classification: Not Reported  
 Site Settings Code: Not Reported  
 NPL Status: Not on the NPL  
 DMNSN Unit Code: ACRE  
 RBRAC Code: Not Reported  
 RResp Fed Agency Code: Not Reported  
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information  
 Non NPL Status Date: 19991203  
 Site Fips Code: 13067  
 CC Concurrence Date: Not Reported  
 CC Concurrence FY: Not Reported  
 Alias EPA ID: Not Reported  
 Site FUDS Flag: Not Reported

**CERCLIS Site Contact Name(s):**

Contact ID: 4000275.00000

**SARDIS ROAD CREOSOTE SITE, SARDIS ROAD, KENNESAW, GA 30144 (Continued)**

Contact Name:	William Joyner
Contact Tel:	(404) 562-8795
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	joyner.william@epa.gov
Contact ID:	13002428.00000
Contact Name:	Donna Seadler
Contact Tel:	(404) 562-8870
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	seadler.donna@epa.gov
Contact ID:	4272610.00000
Contact Name:	Carolyn Callihan
Contact Tel:	(404) 562-8913
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Carolyn Callihan/R4/USEPA/US,
Alias Comments:	Not Reported
Site Description:	Not Reported

**CERCLIS Assessment History:**

Action Code:	001
Action:	DISCOVERY
Date Started:	Not Reported
Date Completed:	02/10/1997
Priority Level:	Not Reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not Reported
Urgency Indicator:	Not Reported
Action Anomaly:	Not Reported
Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	Not Reported
Date Completed:	08/28/1998
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not Reported
Urgency Indicator:	Not Reported
Action Anomaly:	Not Reported
Action Code:	001
Action:	SITE INSPECTION
Date Started:	Not Reported
Date Completed:	12/03/1999
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Operable Unit:	SITEWIDE

MAP FINDINGS

**SARDIS ROAD CREOSOTE SITE, SARDIS ROAD, KENNESAW, GA 30144 (Continued)**

Primary Responsibility:	State, Fund Financed
Planning Status:	Not Reported
Urgency Indicator:	Not Reported
Action Anomaly:	Not Reported

**FINDS: Other Standard Environmental Records**

Registry ID: 110009276568

**Environmental Interest/Information System:**

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

MAP FINDINGS

BIG SHANTY SUPERETTE #8 2778 SOUTH MAIN ST, KENNESAW, GA, 30144		1006781597
▼ 3	W 1/10 - 1/3 (1088 ft. / 0.206 mi.)	State and tribal leaking storage tank lists Other Standard Environmental Records
	2 ft. Lower Elevation 1102 ft. Above Sea Level	

**Worksheet:**

**Impact on Target Property:** VEC Can Be Ruled Out

**Groundwater Flow Gradient:**

Downgradient: YES

**FINDS: Other Standard Environmental Records**

Registry ID: 110013509630

**Environmental Interest/Information System:**

GEIMS (Geographic Environmental Information Management System) provides the EPA and Public a single point of access to core data for all facilities and sites regulated or monitored by the EPA and a single system for the reporting of all environmental data.

**LUST: State and tribal leaking storage tank lists**

Facility ID: 00330116  
 Leak ID: 1  
 Description: Confirmed Release Received  
 Cleanup Status: NFA -Monitoring Only (MNA)  
 Date Received: 01/20/1998  
 Project Officer: Mayila, Ferdinand

Facility ID: 00330116  
 Leak ID: 2  
 Description: Suspected Release Received  
 Cleanup Status: NFA - Suspected Release  
 Date Received: 12/09/2010  
 Project Officer: Knowles, Gilda A

MAP FINDINGS

KENNESAW TEXACO 2820 SOUTH MAIN ST, KENNESAW, GA, 30144		U001475409
▼ 4	WNW 1/10 - 1/3 (1235 ft. / 0.234 mi.)	State and tribal leaking storage tank lists
	24 ft. Lower Elevation 1080 ft. Above Sea Level	State and tribal registered storage tank lists Other Standard Environmental Records

**Worksheet:**

**Impact on Target Property:** VEC Can Be Ruled Out

**Groundwater Flow Gradient:**

Downgradient: YES

**GA FINANCIAL ASSURANCE: Other Standard Environmental Records**

Region: 1  
 Facility ID: 330030  
 Financial Responsibility: G.U.S.T. Trust Fund

**LUST: State and tribal leaking storage tank lists**

Facility ID: 00330030  
 Leak ID: 1  
 Description: Confirmed Release Received  
 Cleanup Status: NFA - No Further Action  
 Date Received: 09/05/1997  
 Project Officer: White, Kenneth

**Facility: State and tribal registered storage tank lists**

Facility Id: 330030  
 Facility Status: Closed  
 Facility Type: Gas Station  
 District: PIRT 7  
 Contact Id: 1865  
 Owner Name: THE CITY OF KENNESAW  
 Owner Address: 2529 J O STEPHENSON AVE  
 Owner City: KENNESAW  
 Owner State: GA  
 Owner Zip: 30144  
 Owner City,St,Zip: KENNESAW, GA 30144  
 Owner Telephone: 770-424-8274

**Tanks:**

Facility ID: 330030  
 Tank ID: 1  
 Status Date: 03/31/1986  
**Status:** Installed  
 Product1: Gas  
 Material: Bare Steel  
 Capacity: 1000  
 Pipe Material: Galvanized Steel

MAP FINDINGS

**KENNESAW TEXACO, 2820 SOUTH MAIN ST, KENNESAW, GA 30144 (Continued)**

Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030  
 Tank ID: 1  
 Status Date: 08/14/1997  
**Status: Removed From Ground**  
 Product1: Gas  
 Material: Bare Steel  
 Capacity: 1000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030  
 Tank ID: 1  
 Status Date: Not Reported  
**Status: Upgrade Repair Not Marked**  
 Product1: Gas  
 Material: Bare Steel  
 Capacity: 1000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030  
 Tank ID: 2  
 Status Date: 04/01/1980  
**Status: Installed**  
 Product1: Diesel  
 Material: Bare Steel  
 Capacity: 2000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030

MAP FINDINGS

KENNESAW TEXACO, 2820 SOUTH MAIN ST, KENNESAW, GA 30144 (Continued)

Tank ID: 2  
 Status Date: 08/14/1997  
**Status: Removed From Ground**  
 Product1: Diesel  
 Material: Bare Steel  
 Capacity: 2000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030  
 Tank ID: 2  
 Status Date: Not Reported  
**Status: Upgrade Repair Not Marked**  
 Product1: Diesel  
 Material: Bare Steel  
 Capacity: 2000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030  
 Tank ID: 3  
 Status Date: 03/31/1986  
**Status: Installed**  
 Product1: Gas  
 Material: Bare Steel  
 Capacity: 1000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not Reported  
 Overfill Installed: Not Reported  
 Tank Exempt From Spill: Not Reported  
 Date Spill Device Installed: Not Reported

Facility ID: 330030  
 Tank ID: 3  
 Status Date: 08/14/1997  
**Status: Removed From Ground**  
 Product1: Gas  
 Material: Bare Steel  
 Capacity: 1000  
 Pipe Material: Galvanized Steel

MAP FINDINGS

**KENNESAW TEXACO, 2820 SOUTH MAIN ST, KENNESAW, GA 30144 (Continued)**

Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030  
Tank ID: 3  
Status Date: Not Reported  
**Status: Upgrade Repair Not Marked**  
Product1: Gas  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030  
Tank ID: 4  
Status Date: 03/31/1986  
**Status: Installed**  
Product1: Gas  
Material: Bare Steel  
Capacity: 560  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030  
Tank ID: 4  
Status Date: 08/14/1997  
**Status: Removed From Ground**  
Product1: Gas  
Material: Bare Steel  
Capacity: 560  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030

MAP FINDINGS

KENNESAW TEXACO, 2820 SOUTH MAIN ST, KENNESAW, GA 30144 (Continued)

Tank ID: 4  
Status Date: Not Reported  
**Status: Upgrade Repair Not Marked**  
Product1: Gas  
Material: Bare Steel  
Capacity: 560  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030  
Tank ID: 5  
Status Date: 03/31/1986  
**Status: Installed**  
Product1: Kerosene  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030  
Tank ID: 5  
Status Date: 08/14/1997  
**Status: Removed From Ground**  
Product1: Kerosene  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not Reported  
Overfill Installed: Not Reported  
Tank Exempt From Spill: Not Reported  
Date Spill Device Installed: Not Reported

Facility ID: 330030  
Tank ID: 5  
Status Date: Not Reported  
**Status: Upgrade Repair Not Marked**  
Product1: Kerosene  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel

MAP FINDINGS

**KENNESAW TEXACO, 2820 SOUTH MAIN ST, KENNESAW, GA 30144 (Continued)**

Pipe Type:	Suction: Valve At The Tank
Overfill Protection:	Not Reported
Overfill Installed:	Not Reported
Tank Exempt From Spill:	Not Reported
Date Spill Device Installed:	Not Reported

MAP FINDINGS

COMPLETE P.C. RECYCLING 2641A KENNESAW DUE WEST ROAD, N.W., KENNESAW, GA, 30144		S110820837
▲ 5	SSW 1/3 - 1/2 (1871 ft. / 0.354 mi.) 18 ft. Higher Elevation 1122 ft. Above Sea Level	State and tribal landfill / solid waste disposal

**Worksheet:**

**Impact on Target Property:** VEC Can Be Ruled Out

**Conditions:**

Not Applicable: YES

**Groundwater Flow Gradient:**

Upgradient or Indeterminate: YES

**SWRCY: State and tribal landfill / solid waste disposal**

City/State/Zip:	Kennesaw, Georgia30144
Contact Name:	Andy Boxton
Phone:	770-428-1998
Fax:	Not Reported
Email:	Not Reported
Web Address:	www.completepcrecycling.us
Pick Up:	Yes
Rail Access:	No
Operation Hrs:	9-6 M-F; 9-1:30 Sat
Type Recy:	Collector, Processor
Notes:	Accepts from individuals and businesses. Free drop-off

## RECORD SOURCES AND CURRENCY

To maintain currency of the following databases, EDR contacts the appropriate agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### **STANDARD ENVIRONMENTAL RECORDS**

#### **AIRS: Permitted Facility & Emissions Listing**

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of permitted Air facilities and emissions data.

Date of Government Version: 12/31/2011

Source: Department of Natural Resources

Number of Days to Update: 49

Telephone: 404-363-7000

Last EDR Contact :02/27/2012

#### **AST: Above Ground Storage Tanks**

Standard Environmental Record Source: State and tribal registered storage tank lists

Search Distance: Property

A listing of LP gas tank site locations.

Date of Government Version: 03/06/2012

Source: Office of Insurance & Safety Fire Commissioner

Number of Days to Update: 36

Telephone: 404-656-5875

Last EDR Contact :02/27/2012

#### **AUL: Uniform Environmental Covenants**

Standard Environmental Record Source: State and tribal institutional control / engineering control registries

Search Distance: 0.5 Mile

A list of environmental covenants

Date of Government Version: 12/08/2010

Source: Department of Natural Resources

Number of Days to Update: 24

Telephone: 404-657-8600

Last EDR Contact :05/18/2012

#### **BROWNFIELDS: Brownfields Public Record List**

Standard Environmental Record Source: State and tribal Brownfields sites

Search Distance: 0.333 Mile

The Brownfields Public Record lists properties where response actions under the Georgia Hazardous Site Reuse and Redevelopment Act are planned, ongoing or completed.

Date of Government Version: 10/27/2011

Source: Department of Natural Resources

Number of Days to Update: 27

Telephone: 404-657-8600

Last EDR Contact :05/15/2012

#### **COAL ASH: Coal Ash Disposal Site Listing**

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

A listing of coal ash landfills.

Date of Government Version: 05/27/2011

Source: Department of Natural Resources

Number of Days to Update: 41

Telephone: 404-362-2537

## RECORD SOURCES AND CURRENCY

Last EDR Contact :05/07/2012

**DEL SHWS:** Delisted Hazardous Site Inventory Listing

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

A listing of sites delisted from the Hazardous Site Inventory.

Date of Government Version: 07/01/2011

Source: Department of Natural Resources

Number of Days to Update: 19

Telephone: 404-657-8636

Last EDR Contact :04/02/2012

**DRYCLEANERS:** Drycleaner Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.25 Mile

A list of drycleaners in the state. The listing includes drycleaner facilities, that use perchloroethylene, that responded to the Notification of Compliance Status forms. It also includes those businesses that are pick-up stores only and do not conduct dry cleaning on site.

Date of Government Version: 09/18/2009

Source: Department of Natural Resources

Number of Days to Update: 21

Telephone: 404-363-7000

Last EDR Contact :05/15/2012

**FINANCIAL ASSURANCE:** Financial Assurance Information Listing

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 03/08/2012

Source: Department of Natural Resources

Number of Days to Update: 26

Telephone: 404-362-4892

Last EDR Contact :03/16/2012

**HIST LF:** Historical Landfills

Standard Environmental Record Source: State and tribal landfill / solid waste disposal

Search Distance: 0.333 Mile

Landfills that were closed many years ago.

Date of Government Version: 01/15/2003

Source: Department of Natural Resources

Number of Days to Update: 17

Telephone: 404-362-2696

Last EDR Contact :01/20/2004

**INST CONTROL:** Public Record List

Standard Environmental Record Source: State and tribal institutional control / engineering control registries

Search Distance: Property

Sites on the Public Record Listing that have institutional controls or limitations on use are sites with Risk Reduction Standards of 3, 4, and 5.

Date of Government Version: 10/27/2011

Source: Department of Natural Resources

Number of Days to Update: 27

Telephone: 404-657-8600

Last EDR Contact :05/15/2012

**LUST:** List of Leaking Underground Storage Tanks

Standard Environmental Record Source: State and tribal leaking storage tank lists

## RECORD SOURCES AND CURRENCY

Search Distance: 0.333 Mile

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/11/2012

Source: Environmental Protection Division

Number of Days to Update: 20

Telephone: 404-362-2687

Last EDR Contact :03/21/2012

### NON HSI: Non-Hazardous Site Inventory

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

This list was obtained by EDR in 1998 and contains property listings that have reported contamination of soil or groundwater under the Georgia Hazardous Site Response Act (HSRA). These sites were not placed on the Georgia Priority list (Hazardous Site Inventory or HSI) because their hazard evaluation scores did not exceed the threshold levels established for sites posing an imminent threat to health or the environment. Disclaimer provided by Rindt-McDuff Associates - the database information has been obtained from publicly available sources produced by other entities. While reasonable steps have been taken to insure the accuracy of the data, RMA does not guarantee the accuracy of the data. No claim is made for the actual existence of pollution at any site. This data does not constitute a legal opinion.

Date of Government Version: 04/01/2012

Source: Rindt-McDuff Associates, Inc.

Number of Days to Update: 28

Telephone: Not Reported

Last EDR Contact :03/16/2012

### NPDES: NPDES Wastewater Permit List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of NPDES wastewater permits issued by the Watershed Protection Branch.

Date of Government Version: 01/27/2011

Source: Department of Natural Resources

Number of Days to Update: 8

Telephone: 404-362-2680

Last EDR Contact :05/18/2012

### SHWS: Hazardous Site Inventory

Standard Environmental Record Source: State and tribal - equivalent CERCLIS

Search Distance: 0.333 Mile

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/01/2011

Source: Department of Environmental Protection

Number of Days to Update: 19

Telephone: 404-657-8600

Last EDR Contact :04/02/2012

### SPILLS: Spills Information

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Oil or Hazardous Material Spills or Releases.

Date of Government Version: 04/04/2012

Source: Department of Natural Resources

Number of Days to Update: 39

Telephone: 404-656-6905

Last EDR Contact :04/02/2012

### SWF/LF: Solid Waste Disposal Facilities

## RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: State and tribal landfill / solid waste disposal  
Search Distance: 0.333 Mile

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/04/2011                      Source: Department of Natural Resources  
Number of Days to Update: 43                                      Telephone: 404-362-2696  
Last EDR Contact :05/11/2012

### **SWRCY:** Recycling Center Listing

Standard Environmental Record Source: State and tribal landfill / solid waste disposal  
Search Distance: 0.5 Mile

A listing of recycling facility locations.

Date of Government Version: 03/14/2012                      Source: Department of Community Affairs  
Number of Days to Update: 26                                      Telephone: 404-679-1598  
Last EDR Contact :05/07/2012

### **TIER 2:** Tier 2 Data Listing

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2010                      Source: Department of Natural Resources  
Number of Days to Update: 24                                      Telephone: 404-656-4852  
Last EDR Contact :03/05/2012

### **UST:** Underground Storage Tank Database

Standard Environmental Record Source: State and tribal registered storage tank lists  
Search Distance: Property

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/08/2012                      Source: Environmental Protection Division  
Number of Days to Update: 26                                      Telephone: 404-362-2687  
Last EDR Contact :03/16/2012

### **VCP:** Voluntary Cleanup Program site

Standard Environmental Record Source: State and tribal voluntary cleanup sites  
Search Distance: 0.333 Mile

Georgias Voluntary Remediation Program Act was created to encourage voluntary investigation and remediation of contaminated properties.

Date of Government Version: 01/01/2012                      Source: DNR  
Number of Days to Update: 35                                      Telephone: 404-657-8600  
Last EDR Contact :03/06/2012

### **CERCLIS:** Comprehensive Environmental Response, Compensation, and Liability Information System

Standard Environmental Record Source: Federal CERCLIS  
Search Distance: 0.333 Mile

## RECORD SOURCES AND CURRENCY

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011

Source: EPA

Number of Days to Update: 14

Telephone: 703-412-9810

Last EDR Contact :04/05/2012

### **CERCLIS-NFRAP:** CERCLIS No Further Remedial Action Planned

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011

Source: EPA

Number of Days to Update: 14

Telephone: 703-412-9810

Last EDR Contact :04/05/2012

### **COAL ASH DOE:** Sleam-Electric Plan Operation Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005

Source: Department of Energy

Number of Days to Update: 76

Telephone: 202-586-8719

Last EDR Contact :04/16/2012

### **COAL ASH EPA:** Coal Combustion Residues Surface Impoundments List

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010

Source: Environmental Protection Agency

Number of Days to Update: 77

Telephone: Not Reported

Last EDR Contact :03/16/2012

### **CONSENT:** Superfund (CERCLA) Consent Decrees

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011

Source: Department of Justice, Consent Decree Library

Number of Days to Update: 36

Telephone: Varies

Last EDR Contact :04/02/2012

### **CORRACTS:** Corrective Action Report

Standard Environmental Record Source: Federal RCRA CORRACTS facilities list

Search Distance: 0.333 Mile

## RECORD SOURCES AND CURRENCY

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011                      Source: EPA  
Number of Days to Update: 132                                      Telephone: 800-424-9346  
Last EDR Contact :05/15/2012

**DEBRIS REGION 9:** Torres Martinez Reservation Illegal Dump Site Locations

Standard Environmental Record Source: State and tribal landfill / solid waste disposal  
Search Distance: 0.333 Mile

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009                      Source: EPA, Region 9  
Number of Days to Update: 137                                      Telephone: 415-947-4219  
Last EDR Contact :03/26/2012

**DELISTED NPL:** National Priority List Deletions

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: 0.333 Mile

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/30/2012                      Source: EPA  
Number of Days to Update: 40                                      Telephone: Not Reported  
Last EDR Contact :04/05/2012

**DOT OPS:** Incident and Accident Data

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011                      Source: Department of Transportation, Office of Pipeline Safety  
Number of Days to Update: 94                                      Telephone: 202-366-4595  
Last EDR Contact :05/08/2012

**ERNS:** Emergency Response Notification System

Standard Environmental Record Source: Federal ERNS list  
Search Distance: Property

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/03/2011                      Source: National Response Center, United States Coast Guard  
Number of Days to Update: 38                                      Telephone: 202-267-2180  
Last EDR Contact :04/03/2012

**FEMA UST:** Underground Storage Tank Listing

Standard Environmental Record Source: State and tribal registered storage tank lists  
Search Distance: Property

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010                      Source: FEMA

## RECORD SOURCES AND CURRENCY

Number of Days to Update: 55  
Last EDR Contact :04/10/2012

Telephone: 202-646-5797

### **FINDS:** Facility Index System/Facility Registry System

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011  
Number of Days to Update: 79  
Last EDR Contact :03/13/2012

Source: EPA  
Telephone: Not Reported

### **FTTS:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Number of Days to Update: 25  
Last EDR Contact :05/23/2012

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667

### **FTTS INSP:** FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Standard Environmental Record Source: Other Standard Environmental Records  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Number of Days to Update: 25  
Last EDR Contact :05/23/2012

Source: EPA  
Telephone: 202-566-1667

### **FUDS:** Formerly Used Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: 0.333 Mile

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009  
Number of Days to Update: 112  
Last EDR Contact :03/12/2012

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285

### **HIST FTTS:** FIFRA/TSCA Tracking System Administrative Case Listing

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

## RECORD SOURCES AND CURRENCY

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Number of Days to Update: 40  
Last EDR Contact :12/17/2007

Source: Environmental Protection Agency  
Telephone: 202-564-2501

### **HMIRS:** Hazardous Materials Information Reporting System

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011  
Number of Days to Update: 38  
Last EDR Contact :04/03/2012

Source: U.S. Department of Transportation  
Telephone: 202-366-4555

### **ICIS:** Integrated Compliance Information System

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: Property

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011  
Number of Days to Update: 61  
Last EDR Contact :03/26/2012

Source: Environmental Protection Agency  
Telephone: 202-564-5088

### **INDIAN LUST R1:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
Search Distance: 0.333 Mile

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011  
Number of Days to Update: 10  
Last EDR Contact :05/01/2012

Source: EPA Region 1  
Telephone: 617-918-1313

### **INDIAN LUST R10:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/01/2012  
Number of Days to Update: 103  
Last EDR Contact :04/30/2012

Source: EPA Region 10  
Telephone: 206-553-2857

### **INDIAN LUST R4:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-8677

## RECORD SOURCES AND CURRENCY

Last EDR Contact :04/30/2012

**INDIAN LUST R6:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011

Source: EPA Region 6

Number of Days to Update: 59

Telephone: 214-665-6597

Last EDR Contact :04/23/2012

**INDIAN LUST R7:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012

Source: EPA Region 7

Number of Days to Update: 88

Telephone: 913-551-7003

Last EDR Contact :04/30/2012

**INDIAN LUST R8:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011

Source: EPA Region 8

Number of Days to Update: 25

Telephone: 303-312-6271

Last EDR Contact :04/30/2012

**INDIAN LUST R9:** Leaking Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal leaking storage tank lists  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/14/2012

Source: Environmental Protection Agency

Number of Days to Update: 88

Telephone: 415-972-3372

Last EDR Contact :04/30/2012

**INDIAN ODI:** Report on the Status of Open Dumps on Indian Lands

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: 0.333 Mile

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998

Source: Environmental Protection Agency

Number of Days to Update: 52

Telephone: 703-308-8245

Last EDR Contact :05/07/2012

**INDIAN UST R1:** Underground Storage Tanks on Indian Land

Standard Environmental Record Source: State and tribal registered storage tank lists  
Search Distance: Property

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011

Source: EPA, Region 1

Number of Days to Update: 10

Telephone: 617-918-1313

Last EDR Contact :05/01/2012

## RECORD SOURCES AND CURRENCY

### **INDIAN UST R10: Underground Storage Tanks on Indian Land**

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/01/2012

Source: EPA Region 10

Number of Days to Update: 103

Telephone: 206-553-2857

Last EDR Contact :04/30/2012

### **INDIAN UST R4: Underground Storage Tanks on Indian Land**

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011

Source: EPA Region 4

Number of Days to Update: 26

Telephone: 404-562-9424

Last EDR Contact :04/30/2012

### **INDIAN UST R5: Underground Storage Tanks on Indian Land**

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/28/2012

Source: EPA Region 5

Number of Days to Update: 76

Telephone: 312-886-6136

Last EDR Contact :04/30/2012

### **INDIAN UST R6: Underground Storage Tanks on Indian Land**

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011

Source: EPA Region 6

Number of Days to Update: 34

Telephone: 214-665-7591

Last EDR Contact :04/23/2012

### **INDIAN UST R7: Underground Storage Tanks on Indian Land**

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 02/07/2012

Source: EPA Region 7

Number of Days to Update: 88

Telephone: 913-551-7003

Last EDR Contact :04/30/2012

### **INDIAN UST R8: Underground Storage Tanks on Indian Land**

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011

Source: EPA Region 8

Number of Days to Update: 25

Telephone: 303-312-6137

Last EDR Contact :04/30/2012

### **INDIAN UST R9: Underground Storage Tanks on Indian Land**

## RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: State and tribal registered storage tank lists

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011

Source: EPA Region 9

Number of Days to Update: 42

Telephone: 415-972-3368

Last EDR Contact :04/30/2012

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

Search Distance: 0.333 Mile

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/17/2012

Source: EPA, Region 1

Number of Days to Update: 42

Telephone: 617-918-1102

Last EDR Contact :04/03/2012

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

Standard Environmental Record Source: State and tribal voluntary cleanup sites

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008

Source: EPA, Region 7

Number of Days to Update: 27

Telephone: 913-551-7365

Last EDR Contact :04/20/2009

### LIENS 2: CERCLA Lien Information

Standard Environmental Record Source: Federal CERCLIS

Search Distance: Property

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011

Source: Environmental Protection Agency

Number of Days to Update: 13

Telephone: 202-564-6023

Last EDR Contact :04/30/2012

### LUCIS: Land Use Control Information System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005

Source: Department of the Navy

Number of Days to Update: 31

Telephone: 843-820-7326

Last EDR Contact :05/21/2012

### MINES: Mines Master Index File

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

## RECORD SOURCES AND CURRENCY

Date of Government Version: 08/18/2011

Source: Department of Labor, Mine Safety and Health Administration

Number of Days to Update: 21

Telephone: 303-231-5959

Last EDR Contact :03/07/2012

### **MLTS: Material Licensing Tracking System**

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011

Source: Nuclear Regulatory Commission

Number of Days to Update: 60

Telephone: 301-415-7169

Last EDR Contact :03/12/2012

### **NPL: National Priority List**

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/08/2012

Source: EPA

Number of Days to Update: 5

Telephone: Not Reported

Last EDR Contact :05/10/2012

### **NPL Site Boundaries**

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-566-0690

EPA Region 1  
Telephone: 617-918-1102

EPA Region 2  
Telephone: 212-637-4293

EPA Region 3  
Telephone: 215-814-5418

EPA Region 4  
Telephone: 404-562-8681

EPA Region 5  
Telephone: 312-353-1063

EPA Region 6  
Telephone: 214-655-6659

EPA Region 7  
Telephone: 913-551-7247

EPA Region 8  
Telephone: 303-312-6118

EPA Region 9  
Telephone: 415-947-4579

EPA Region 10  
Telephone: 206-553-4479

**NPL LIENS: Federal Superfund Liens**

## RECORD SOURCES AND CURRENCY

Standard Environmental Record Source: Federal NPL

Search Distance: Property

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991

Source: EPA

Number of Days to Update: 56

Telephone: 202-564-4267

Last EDR Contact :08/15/2011

### ODI: Open Dump Inventory

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985

Source: Environmental Protection Agency

Number of Days to Update: 39

Telephone: 800-424-9346

Last EDR Contact :06/09/2004

### PADS: PCB Activity Database System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010

Source: EPA

Number of Days to Update: 98

Telephone: 202-566-0500

Last EDR Contact :04/17/2012

### PCB TRANSFORMER: PCB Transformer Registration Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011

Source: Environmental Protection Agency

Number of Days to Update: 83

Telephone: 202-566-0517

Last EDR Contact :05/04/2012

### Proposed NPL: Proposed National Priority List Sites

Standard Environmental Record Source: Federal NPL

Search Distance: 0.333 Mile

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet their requirements for listing.

Date of Government Version: 03/30/2012

Source: EPA

Number of Days to Update: 40

Telephone: Not Reported

Last EDR Contact :04/05/2012

### RAATS: RCRA Administrative Action Tracking System

Standard Environmental Record Source: Other Standard Environmental Records

## RECORD SOURCES AND CURRENCY

Search Distance: Property

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995

Source: EPA

Number of Days to Update: 35

Telephone: 202-564-4104

Last EDR Contact :06/02/2008

### **RADINFO:** Radiation Information Database

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012

Source: Environmental Protection Agency

Number of Days to Update: 49

Telephone: 202-343-9775

Last EDR Contact :04/10/2012

### **RCRA-CESQG:** RCRA - Conditionally Exempt Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012

Source: Environmental Protection Agency

Number of Days to Update: 41

Telephone: 703-308-8895

Last EDR Contact :04/04/2012

### **RCRA-LQG:** RCRA - Large Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012

Source: Environmental Protection Agency

Number of Days to Update: 41

Telephone: 703-308-8895

Last EDR Contact :04/04/2012

### **RCRA-NonGen:** RCRA - Non Generators

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

## RECORD SOURCES AND CURRENCY

Date of Government Version: 03/15/2012  
Number of Days to Update: 41  
Last EDR Contact :04/04/2012

Source: Environmental Protection Agency  
Telephone: 703-308-8895

### **RCRA-SQG:** RCRA - Small Quantity Generators

Standard Environmental Record Source: Federal RCRA generators list  
Search Distance: Property

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012  
Number of Days to Update: 41  
Last EDR Contact :04/04/2012

Source: Environmental Protection Agency  
Telephone: 703-308-8895

### **RCRA-TSDF:** RCRA - Treatment, Storage and Disposal

Standard Environmental Record Source: Federal RCRA TSD facilities list  
Search Distance: 0.333 Mile

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012  
Number of Days to Update: 41  
Last EDR Contact :04/04/2012

Source: Environmental Protection Agency  
Telephone: 703-308-8895

### **ROD:** Records Of Decision

Standard Environmental Record Source: Federal NPL  
Search Distance: 0.333 Mile

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/28/2011  
Number of Days to Update: 27  
Last EDR Contact :03/14/2012

Source: EPA  
Telephone: 703-416-0223

### **SCRD DRYCLEANERS:** State Coalition for Remediation of Drycleaners Listing

Standard Environmental Record Source: Other Standard Environmental Records  
Search Distance: 0.333 Mile

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Number of Days to Update: 54  
Last EDR Contact :04/23/2012

Source: Environmental Protection Agency  
Telephone: 615-532-8599

### **SSTS:** Section 7 Tracking Systems

Standard Environmental Record Source: Other Standard Environmental Records

## RECORD SOURCES AND CURRENCY

Search Distance: Property

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009

Source: EPA

Number of Days to Update: 77

Telephone: 202-564-4203

Last EDR Contact :04/30/2012

### **TRIS:** Toxic Chemical Release Inventory System

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009

Source: EPA

Number of Days to Update: 131

Telephone: 202-566-0250

Last EDR Contact :02/28/2012

### **TSCA:** Toxic Substances Control Act

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006

Source: EPA

Number of Days to Update: 64

Telephone: 202-260-5521

Last EDR Contact :03/28/2012

### **UMTRA:** Uranium Mill Tailings Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010

Source: Department of Energy

Number of Days to Update: 146

Telephone: 505-845-0011

Last EDR Contact :02/28/2012

### **US BROWNFIELDS:** A Listing of Brownfields Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011

Source: Environmental Protection Agency

## RECORD SOURCES AND CURRENCY

Number of Days to Update: 78

Telephone: 202-566-2777

Last EDR Contact :04/03/2012

### US CDL: Clandestine Drug Labs

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 10/07/2011

Source: Drug Enforcement Administration

Number of Days to Update: 32

Telephone: 202-307-1000

Last EDR Contact :03/06/2012

### US ENG CONTROLS: Engineering Controls Sites List

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011

Source: Environmental Protection Agency

Number of Days to Update: 11

Telephone: 703-603-0695

Last EDR Contact :03/12/2012

### US HIST CDL: National Clandestine Laboratory Register

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007

Source: Drug Enforcement Administration

Number of Days to Update: 131

Telephone: 202-307-1000

Last EDR Contact :03/23/2009

### US INST CONTROL: Sites with Institutional Controls

Standard Environmental Record Source: Federal institutional controls / engineering controls registries

Search Distance: Property

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011

Source: Environmental Protection Agency

Number of Days to Update: 11

Telephone: 703-603-0695

Last EDR Contact :03/12/2012

### DOD: Department of Defense Sites

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: 0.333 Mile

## RECORD SOURCES AND CURRENCY

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005

Source: USGS

Number of Days to Update: 62

Telephone: 888-275-8747

Last EDR Contact :04/16/2012

### **INDIAN RESERV:** Indian Reservations

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005

Source: USGS

Number of Days to Update: 34

Telephone: 202-208-3710

Last EDR Contact :04/16/2012

### **PWS:** Public Water System Data

Standard Environmental Record Source: Other Standard Environmental Records

Search Distance: Property

This Safe Drinking Water Information System (SDWIS) file contains public water systems name and address, population served and the primary source of water

Date of Government Version: 04/12/2007

Source: EPA

Number of Days to Update: N/A

Telephone: Not Reported

Last EDR Contact :03/12/2012

## RECORD SOURCES AND CURRENCY

### HISTORICAL USE RECORDS

#### **EDR Historical Auto Stations:** EDR Proprietary Historic Gas Stations

Standard Environmental Record Source: Historical Gas Stations

Search Distance: 0.25 Mile

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: 02/20/2007

Source: EDR, Inc.

Number of Days to Update: 42

Telephone: Not Reported

Last EDR Contact :02/21/2007

#### **EDR Historical Cleaners:** EDR Proprietary Historic Dry Cleaners

Standard Environmental Record Source: Historical Dry Cleaners

Search Distance: 0.25 Mile

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: 02/20/2007

Source: EDR, Inc.

Number of Days to Update: 42

Telephone: Not Reported

Last EDR Contact :02/21/2007

#### **Manufactured Gas Plants:** EDR Proprietary Manufactured Gas Plants

Standard Environmental Record Source: Former manufactured Gas Plants

Search Distance: 0.333 Mile

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: 08/28/2009

Source: EDR, Inc.

Number of Days to Update: 55

Telephone: Not Reported

Last EDR Contact :04/06/2012

# RECORD SOURCES AND CURRENCY

## TOPOGRAPHIC INFORMATION

### **USGS 7.5' Digital Elevation Model (DEM)**

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5' minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### **AQUIFLOW® Information System**

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW® Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### **STATSGO: State Soil Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Services. The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### **SSURGO: Soil Survey Geographic Database**

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## STREET AND ADDRESS INFORMATION

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**APPENDIX F:**  
**Noise Assessment Documentation**

**GEC**

**Worksheet A  
Site Evaluation**

Noise Assessment Guidelines

Site Location

**Sardis Street**

Program

Project Name

**The Villas at Stanford**

Locality

**Kennesaw, Cobb County, Georgia**

File Number

**120392.240**

Sponser's Name

Phone

Street Address

City, State

	Acceptability Category	DNL	Predicted for Operations in Year
1. Roadway Noise	<u>Normally Unacceptable</u>	<u>65.2 / 69.1 / 67.6 / 63.0</u> <u>/ 64.7</u>	<u>2022</u>
2. Aircraft Noise	<u>Acceptable</u>	<u>57.2</u>	<u>2012</u>
3. Railway Noise	<u>Normally Unacceptable</u>	<u>72.8 / 73.2 / 71.9 / 70.1</u>	<u>2012</u>
		<u>73.5 / 74.7 / 73.3 / 71.1</u> <u>/ 72.5</u>	

Value of DNL for all noise sources (see page 3 for combination procedure)

Final Site Evaluation (circle one)

Acceptable

Normally Unacceptable

Unacceptable

All NALs are above 65 DNL, though below 75 DNL; therefore, noise mitigation is required to assure interior 45 DNL for all resident interior spaces, and 65 DNL for all exterior amenities per HUD noise guidelines (NAG). A noise mitigation plan is attached.

Signature

*Matthew N. Harty* 6/13/2012

06/12/12



Image courtesy of Google Earth

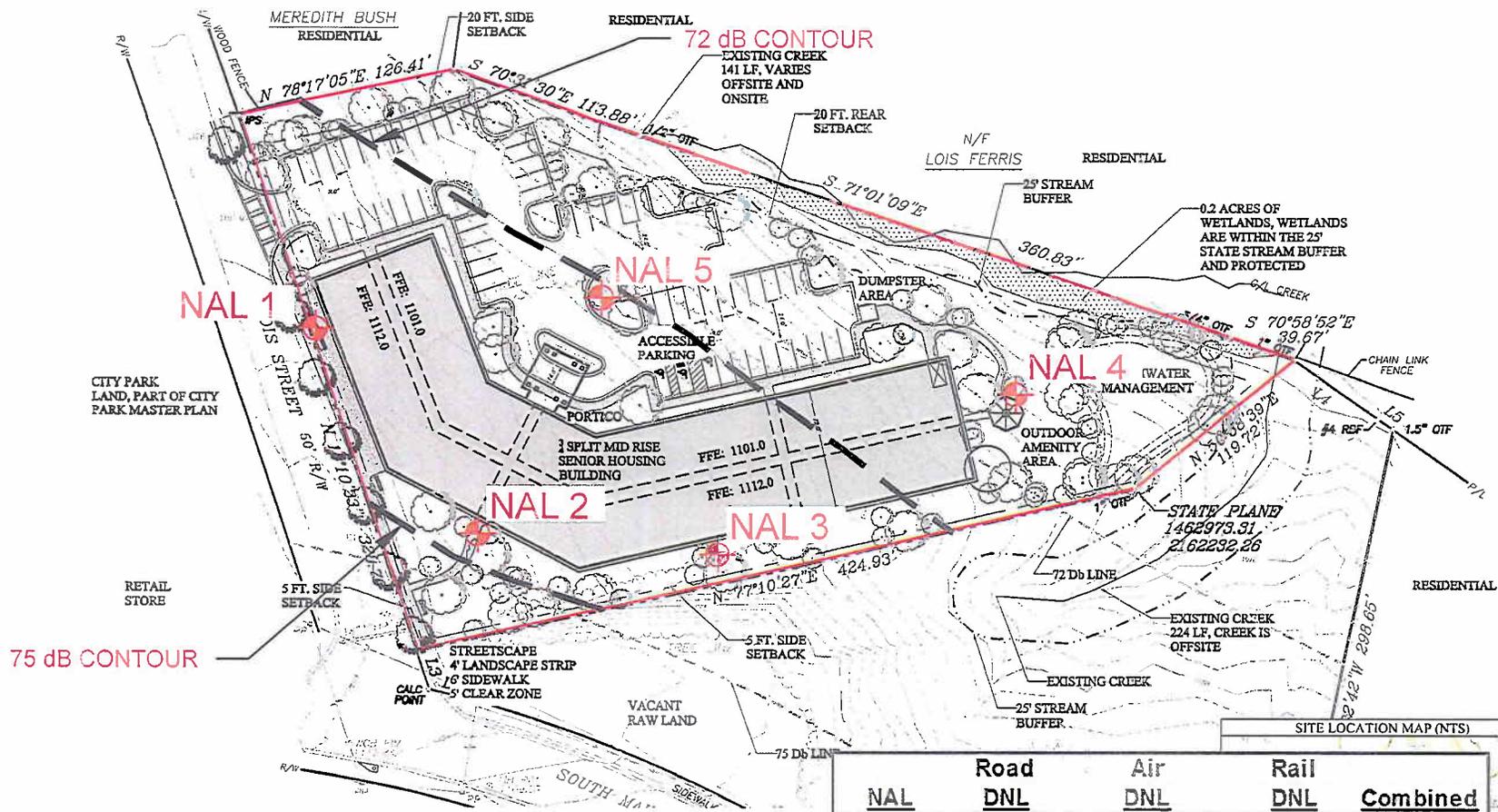
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**SITE VICINITY**  
**THE VILLAS AT STANFORD**  
**KENNESAW, COBB COUNTY, GEORGIA**

GEC PROJECT NO. 120392.240





NAL	Road DNL	Air DNL	Rail DNL	Combined
1	65.2	57.2	72.8	73.5
2	69.1	57.2	73.2	74.7
3	67.6	57.2	71.9	73.3
4	63.0	57.2	70.1	71.1
5	64.7	57.2	71.5	72.5

**NOISE ASSESSMENT LOCATIONS  
THE VILLAS AT STANFORD  
KENNESAW, COBB COUNTY, GEORGIA**

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# Worksheet C Roadway Noise

List all major roads within 1000 feet of the site:

1 South Main Street

2 No other major roadways within 1000 feet, per maps

NAL 1/2/3/4/5

3 \_\_\_\_\_

4 \_\_\_\_\_

Necessary Information	Road 1	Road 2	Road 3	Road 4
1. Distance in feet from the NAL to the edge of the road				
a. nearest lane	_____	_____	_____	_____
b. farthest lane	_____	_____	_____	_____
c. average (effective distance)	224 / 122 / 154 / 311 / 240	_____	_____	_____
2. Distance to stop sign	_____	_____	_____	_____
3. Road gradient in percent (%)	2	_____	_____	_____
4. Average speed in mph				
a. Automobiles	25	_____	_____	_____
b. heavy trucks - uphill	25	_____	_____	_____
c. heavy trucks - downhill	25	_____	_____	_____
5. 24 hour average number of automobiles and medium trucks in both directions (ADT)				
a. automobiles	16517*	_____	_____	_____
b. medium trucks	718*	_____	_____	_____
c. effective ADT (a + (10xb))	23697	_____	_____	_____
6. 24 hour average number of heavy trucks				
a. uphill	_____	_____	_____	_____
b. downhill	_____	_____	_____	_____
c. total	718*	_____	_____	_____
7. Fraction of nighttime traffic (10 p.m. to 7 a.m.)	15	_____	_____	_____
8. Traffic projected for what year?	2022	_____	_____	_____

*Michael W. Blawie* 6/13/12



ONE MAJOR ROADWAY WAS FOUND TO BE WITHIN A 1000-FT RADIUS OF THE SITE.

Roadway		
NAL	Eff. Distance (feet)	DNL (dB)
1	224	65.2
2	122	69.1
3	154	67.6
4	311	63.0
5	240	64.7



Image courtesy of Google Earth

MAJOR ROADWAYS - 1000-FT RADIUS  
THE VILLAS AT STANFORD  
KENNESAW, COBB COUNTY, GEORGIA

GEC PROJECT NO. 120392.240

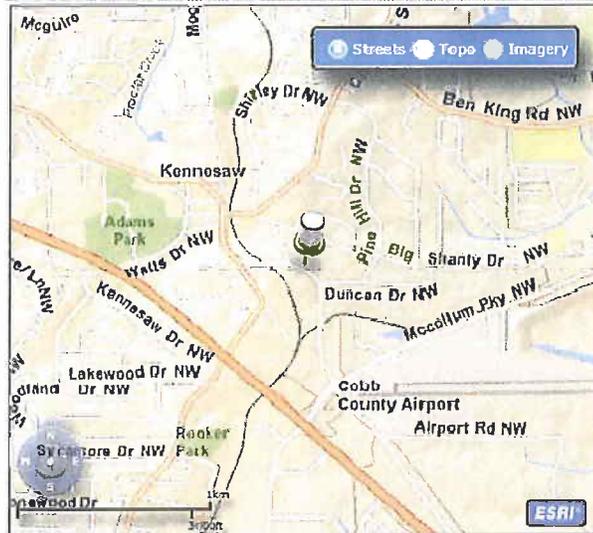
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State Traffic & Report Statistics (STARS)

067 Cobb, Traffic Counter: 0632



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Year	RCLINK	Beginning Milepoint	Ending Milepoint	Directional	Actual/Estimate	Direction 1	Direction 2	Total AADT	Truck%
2011	0672452000	0.85	1.86	Non-Directional	Estimate			12970	
2010	0672452000	0.85	1.86	Non-Directional	Actual			12980	
2009	0672452000	0.85	1.86	Non-Directional	Estimate			14400	
2008	0672452000	0.85	1.86	Non-Directional	Estimate			14810	
2007	0672452000	0.85	1.86	Non-Directional	Actual			15720	
2006	0672452000	0.85	1.86	Non-Directional	Actual			13850	
2005	0672452000	0.85	1.86	Non-Directional	Actual			16180	

# Worksheet B

## Aircraft Noise

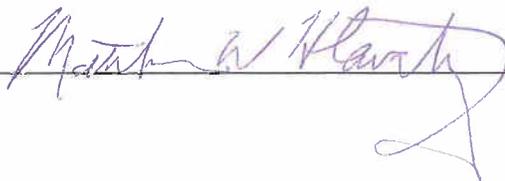
List all airports within 15 miles of the site:

- 1 McCollum Airport 0.5 miles SSE
- 2 Dobbins Air Force Reserve Base 8.4 miles SE
- 3 No other airports within 15-miles radius, per maps

Necessary Information:	Airport 1	Airport 2	Airport 3
1. Are DNL, NEF or CNR contours available? (yes/no)	<u>Yes</u>	<u>Yes</u>	<u></u>
2. Any supersonic aircraft operations? (yes/no)	<u>No</u>	<u>No</u>	<u></u>
3. Estimating approximate contours from Figure 3:			
a. number of nighttime jet operations	<u>N/A</u>	<u>N/A</u>	<u></u>
b. number of daytime jet operations	<u>N/A</u>	<u>N/A</u>	<u></u>
c. effective number of operations (10 times a + b)	<u></u>	<u></u>	<u></u>
d. distance A for 65 dB	<u>N/A</u>	<u>N/A</u>	<u></u>
70 dB	<u></u>	<u></u>	<u></u>
75 dB	<u></u>	<u></u>	<u></u>
e. distance B for 65 dB	<u>N/A</u>	<u>N/A</u>	<u></u>
70 dB	<u></u>	<u></u>	<u></u>
75 dB	<u></u>	<u></u>	<u></u>
4. Estimating DNL from Table 2:			
a. distance from 65 dB contour to flight path, D <sup>1</sup>	<u>1150 ft.</u>	<u>N/A</u>	<u></u>
b. distance from NAL to flight path, D <sup>2</sup>	<u>2821 ft.</u>	<u>5.4 miles</u>	<u></u>
c. D <sup>2</sup> divided by D <sup>1</sup>	<u>2.45</u>	<u>N/A</u>	<u></u>
d. DNL	<u>57.2*</u>	<u>&lt;55</u>	<u></u>
5. Operations projected for what year?	<u>2012</u>	<u>2012</u>	<u></u>
6. Total DNL from all airports	<u></u>	<u>57.2</u>	<u></u>

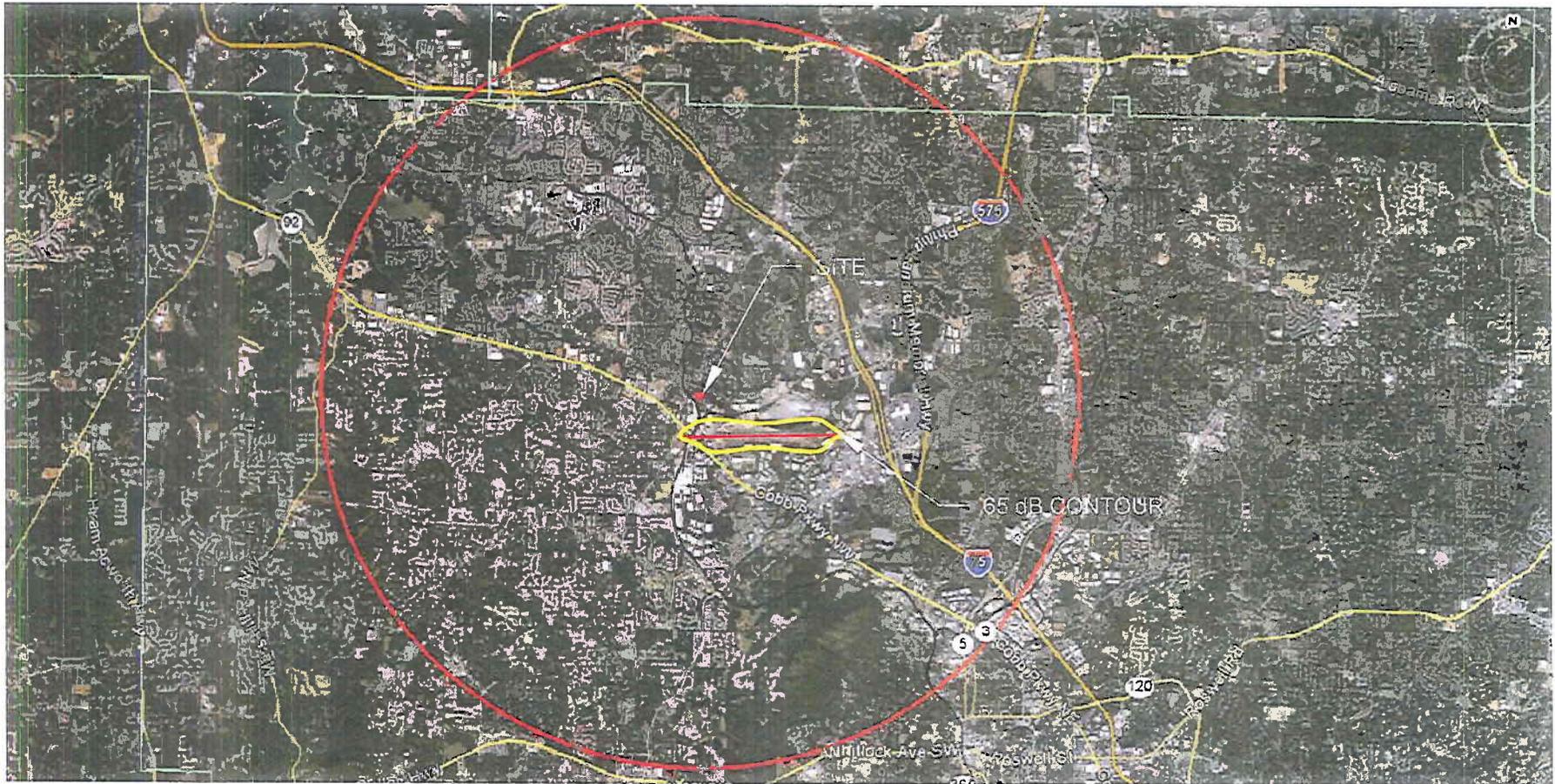
\* - per Chapter 5 Table 2; See attached Aircraft Noise Map for 65 dB and Flight Path contours

Signed



Date

06/12/12



ONE CIVIL AIRPORT (MCCOLLUM) WAS FOUND WITHIN A 5-MILE RADIUS OF THE SITE.

$D^1 = 1150$  ft.  
 $D^2 = 2821$  ft.

$D^2 / D^1 = 2.45$ , therefore DNL = 57.2 dB

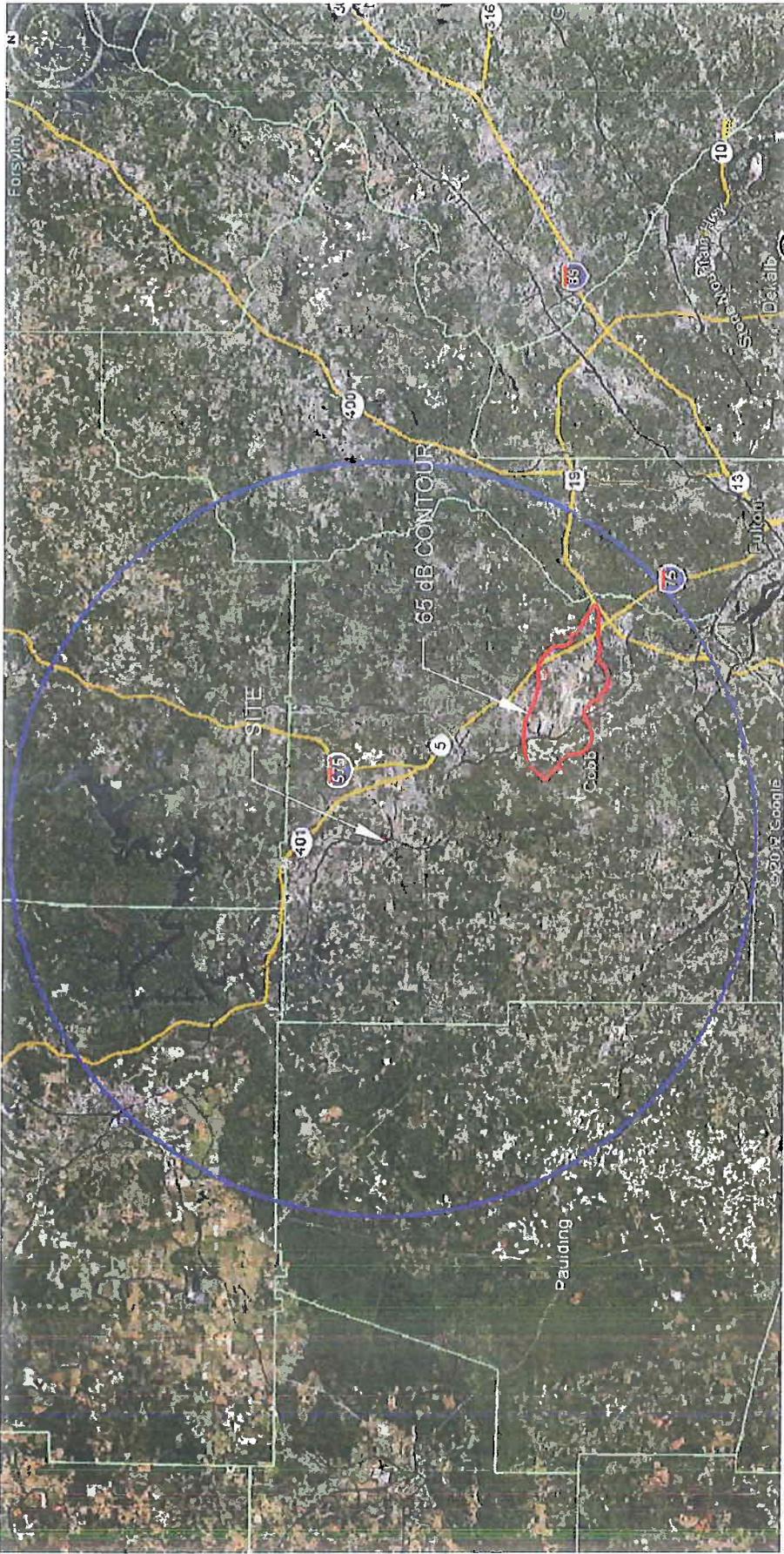
Image courtesy of Google Earth

CIVIL AIRPORTS - 5-MILE RADIUS  
 THE VILLAS AT STANFORD  
 KENNESAW, COBB COUNTY, GEORGIA

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ONE MILITARY AIRFIELD (DOBBINS AIR FORCE RESERVE) WAS FOUND WITHIN A 15-MILE RADIUS OF THE SITE.

Image courtesy of Google Earth

**MILITARY AIRFIELDS - 15-MILE RADIUS  
THE VILLAS AT STANFORD  
KENNESAW, COBB COUNTY, GEORGIA**

GEC PROJECT NO. 120392.240

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Clr Del: 119.0 Dept. ATIS: 128.12 Arr. ATIS: 128.12 AWOS: 128.12 Ground: 119.0  
Tower: 125.9

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[website](#)

EMAIL

Fax: 770-422-4382

Freq: 132.0



Service Jet 100LL 80/87 MoGas Fuel Avail: 24 hour fuel availability. Please call for after hours service.

Full 5.14 6.15

Last Update: 06/01/2012 10:33

PRICES GUARANTEED by FBO. \*

Self

\*CUSTOMERS MUST MENTION AD TO RECEIVE DISCOUNT.

Misc. Info: PILOT'S FIRST CHOICE FBO IN ATL! - Read our excellent service comments!

AWOS

Ph: 770-425-3406

-

Freq: 128.12

Advertise your FBO on FltPlan.com

### Runway & Approach Info for KRYY

Rwy	Length	Land Dist Avail**	Approach*	Rwy	Length	Land Dist Avail**	Approach*
09	6311x100	5233'		27	6311x100	6311'	ILS 111.90 - 272°

\* only ILS, LOC, LDA, and SDF approaches to a specific runway are shown  
\*\* For any Declared Landing Distance Available, please see A/FD or Approach plates

### Runway Weight Capability (lbs.) [more info on Runway Weight Capability](#)

Runway ID	Single Wheel	Double Wheel	Double Tandem Wheel	Dual Double Wheel
09/27	30,000	60,000	N/A	N/A

These numbers are Advisory and are not limits. The Airport Manager should have more accurate Weight Limits  
Please email [Support@FltPlan.com](mailto:Support@FltPlan.com) for further information.

### Approach Charts for KRYY

Sponsored by:

View Approaches for KRYY (for fast viewing)

View Approaches for KRYY (PDF format for printing.)

### Current Weather/Notams (Metars, TAFs, Notams, NWS Forecast, PIREPS, and nearby weather)

Sponsored by:

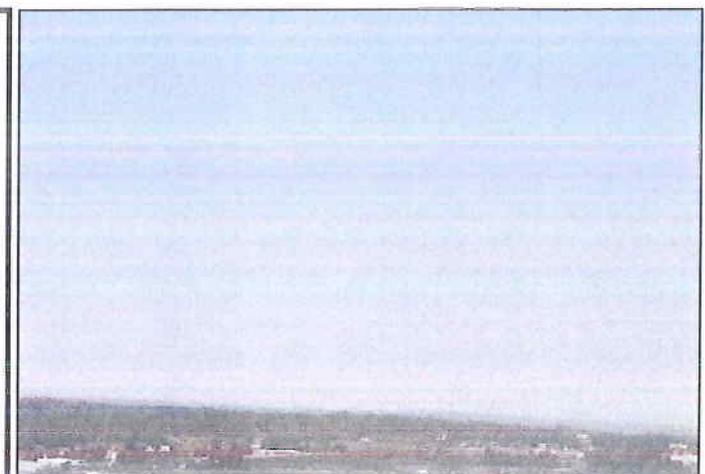
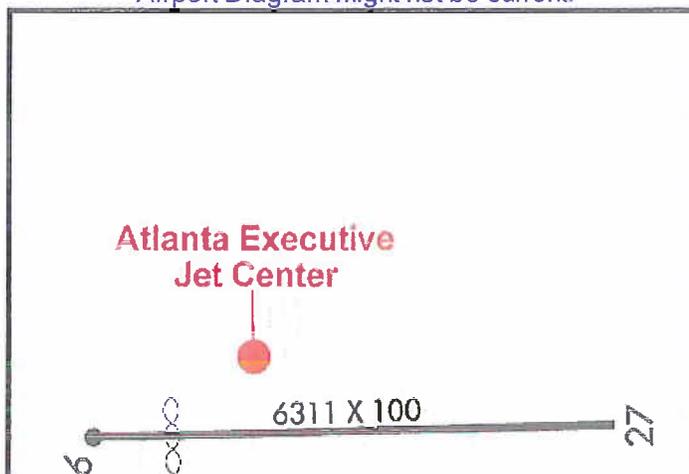
### Customs Information (Send updates to [Support@FltPlan.com](mailto:Support@FltPlan.com))

Customs Not Available

Click here to view [A/FD \(Airport/Facility Directory\)](#) for COBB COUNTY-MC COLLUM FIELD [A/FD Legend](#)

Database effective date: 05/31/2012

Airport Diagram might not be current.



 Preferred  
Jet Center



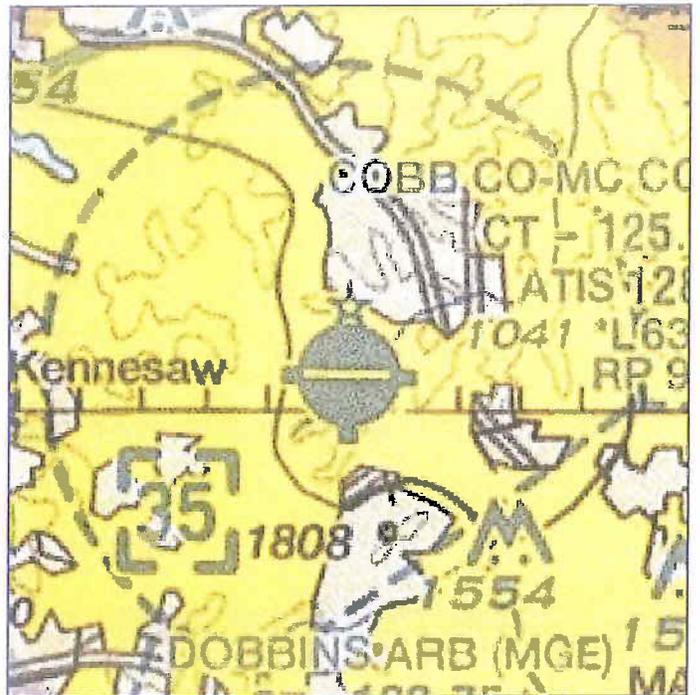
2007

Facility Name: COBB COUNTY-MC COLLUM FIELD  
City Name: ATLANTA  
County: COBB  
State abbrev: GA  
State Name: GEORGIA

Ownership: PUBLICLY OWNED  
Use: OPEN TO THE PUBLIC  
Owner's Name: COBB COUNTY  
Address: 1723 MCCOLLUM PARKWAY  
MARIETTA, GA 30144-9612  
Owner's Phone: 770-528-1615

Manager's Name: KARL A VON HAGEL  
Address: 1723 MC COLLUM PKWY BLDG 100  
KENNESAW, GA 30144  
Phons: 770-528-1615

FAA Region: SOUTHERN  
FAA Field Office: ATL



[Click here for full scale & interactive Sectional view of KRYY](#)

- Map Control Panel(click to open/close)

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- Grid Fixes
- Jet Airways
- Airspace & TFRs
- Victor Airways
- State Outlines

[Click For Full Size Map](#)

**Sunrise / Sunset times for: COBB COUNTY-MC COLLUM FIELD**

Date:	Sunrise	Sunset	Date:	Sunrise	Sunset
06/03/12 Sunday	6:27	20:46	06/10/12 Sunday	6:27	20:50
<b>06/04/12 Monday</b>	<b>6:27</b>	<b>20:47</b>	06/11/12 Monday	6:26	20:50
06/05/12 Tuesday	6:27	20:47	06/12/12 Tuesday	6:26	20:50
06/06/12 Wednesday	6:27	20:48	06/13/12 Wednesday	6:27	20:51
06/07/12 Thursday	6:27	20:48	06/14/12 Thursday	6:27	20:51
06/08/12 Friday	6:27	20:49	06/15/12 Friday	6:27	20:51
06/09/12 Saturday	6:27	20:49	06/16/12 Saturday	6:27	20:52

**Airport Facilities**

Airport Attendance Schedule: M-F 1100-0300, SAT-SUN 1200-0300  
 Airport Status: OPERATIONAL (This Status can change at any time - please check NOTAMS)  
 Airport Lighting Schedule: ATC-CTL. WHEN ATCT CLSD, ACTVT HIRL RY 09/27, REIL RY 27 - CTAF.  
 Airport Storage Available: Tie Downs, Hanger  
 Extra Services Available: Avionics, Charter, Flight Instruction, Aircraft Rental  
 Wind Indicator: YES - (lighted)  
 Control Tower: **YES**  
 CTAF Frequency: 125.900  
 Unicom Frequency: 122.700  
 Rotating Beacon Color: CLEAR-GREEN (Light Land Airport)  
 Segmented Circle: **YES**  
 Landing Fee: NO

**Airport Services**

Type of Fuel Available: Grade 100LL, JET A-1 (icing inhibitor, freeze point -50C)  
 Airframe Repair Service: MAJOR  
 Power Plant Repair Service: MAJOR

**Geographic Data**

Latitude: **N3400.8** Longitude: **W08435.8** (ESTIMATED)  
 Arpt Elevation: **1041ft** (SURVEYED)  
 Magnetic Variation: **04W**

21 miles NW of ATLANTA  
Traffic Pattern Altitude: 1000  
Sectional Chart: ATLANTA

**Aircraft Data**

Operations (reported)	Yearly	Avg. Daily	Aircraft based on Field	
General Aviation transient:	42718	117	General Aviation Singles:	142
General Aviation Local:	20530	56	General Aviation Multi:	17
Air Taxi:	0	0	Jet Aircraft:	28
Commerical:	0	0	General Aviation Helicopters:	6
Commuter:	0	0	Military Aircraft:	0
Military:	0	0	Gliders:	0
			Ultralights:	0

**FAA Services**

FSS on field: NO  
FSS tie-in: MACON  
FSS Phone: 1-800-WX-BRIEF  
Who issues Notams: RYY  
Notam D service at airport: **YES**  
ARTCC Name: ATLANTA

**Federal Status**

Airport Certification:  
Aircraft Rescue & Firefighting Index: None  
Airport of Entry: No  
Custom Landing Rights: No  
Joint Civil/Military: No  
Military Landing rights: YES

**Runway Identification: 09/27**

Length: 6311 ft  
Width: 100 ft  
Surface: CONCRETE-GOOD CONDITION  
Edge lights: High Intensity  
Treatment: GROOVED

**Runway: 09**

Mag heading: 93°  
Rwy Slope: -.67% Down  
Approach:  
Pattern: Right Traffic  
Markings: PRECISION INSTRUMENT

Marking Condition: GOOD  
Arresting Dev:  
Lat & Long: N3400.8 W08436.4  
Elev: 1040.8 ft. MSL  
TCH: 46 ft. AGL  
Visual Glide Path: 4.00 degrees  
Displaced Threshold: 1078 feet  
Touchdown Zone: **YES**  
Touchdown Elev.: 1027.7 feet  
Visual Glide Slope: 4-Light PAPI on LEFT side of Runway

RVR Equipment:  
RVV Equipment: NO  
Approach Lights:  
REIL: NO  
Centerline Lights: NO  
Touchdown lights: NO  
Runway Category: OTHER THAN UTILITY RUNWAY WITH A NON PRECISION APPROACH  
HAVING VISIBILITY MINIMUMS GREATER THAN 3/4 MILE

Declared Distances: TORA:6311' TODA:6311' ASDA:6311' LDA:5233'

**Runway: 27**

Mag heading: 273°  
Rwy Slope: .67% Up  
Approach: ILS  
Pattern: Left Traffic  
Markings: PRECISION  
INSTRUMENT

Marking Condition: GOOD  
Arresting Dev:  
Lat. & Long.: N3400.8 W08435.2  
Elev: 998.4 ft. MSL  
TCH: 45 ft. AGL  
Visual Glide Path: 3.00 degrees  
Displaced Threshold: No  
Touchdown Zone: **YES**  
Touchdown Elev.: 1010.7 feet  
Visual Glide Slope: 4-Light PAPI on  
LEFT side of  
Runway

RVR Equipment:  
RVV Equipment: NO  
Approach Lights:  
REIL: **YES**  
Centerline Lights: NO  
Touchdown lights: NO  
Runway Category: PRECISION  
INSTRUMENT  
RUNWAY

Declared Distances: TORA:6311'  
TODA:6311'  
ASDA:5374'  
LDA:5374'

Obstructions: ROAD  
Marked: NOT Marked/Lighted

Clearance slope: 3:1; RY 09 APCH RATIO 22:1 TO DSPLCD THLD. +48 FT POLE 960 FT FM THLD  
500 FT LEFT.

Obstruction height: 29 feet AGL

Dist. from runway: 287 feet

Centerline offset:

Comments:

Obstructions:  
Marked:

Clearance slope: 50:1

Obstruction height:

Dist. from runway:

Centerline offset:

Comments:

### Remarks

- BLASTING SR-SS MON-FRI 2000 FT AER 27.
- TWY B BETWEEN TWYS B5 & B6 HAS AN FAA FACILITY OBSTRUCTION LOCATED 50 FT FROM TWY B NORTH OF CENTERLINE.
- ARPT MOWING IN PROGRESS SPRING THRU AUTUMN.
- COYOTES ON & INVOF ARPT.
- NOISE ABATEMENT EFFORTS IN EFFECT, CTC ARPT MANAGER FOR DETAILS AT 770-528-1615.
- RY 9 IS CALM WIND RY IN VFR CONDS.
- ACFT ARRIVING OR DEPARTING WITH AN OPERATING WEIGHT GREATER THAN 100,000 LBS, PPR 24 HRS BY COORDINATING THROUGH ARPT MGMT AT 770-528-1615 OR LCL FBOS AT 770-422-2345 OR 770-422-4300.
- NORTH APRON AT TWY A-1 CONNECTOR IS RESTRICTED TO GROUP 1 AFCT ONLY.

### Federal Agreements

- NATIONAL PLAN OF INTEGRATED AIRPORT SYSTEMS (NPIAS)
- GRANT AGREEMENTS UNDER FAAP/ADAP/AIP
- ASSURANCES PURSUANT TO TITLE VI, CIVIL RIGHTS ACT OF 1964

### Airport Inspection Data

Airport Inspected: STATE - performed by STATE AERONAUTICAL PERSONNEL

Inspection Date: 08/06/2010

### Airport Communications & Frequencies:

ATIS Frequencies: Hours(local) of Operation: CONTINUOUS

128.125

MC COLLUM Tower Frequencies: Hours(local) of operation: 0700-2300

125.9

MC COLLUM Ground Frequencies:

119.0

Clearance Delivery Frequencies:

119.0

268.7

CTAF Frequency: 125.900

Unicom Frequency: 122.700

### Remarks

- WHEN ATCT CLSD USE 121.0 AT ATLANTA LARGE TRACON FOR CLEARANCE DELIVERY.

ATLANTA Primary Approach Frequencies:

121.0

268.7

ATLANTA Primary Departure Frequencies:

121.0

268.7

224/111/19

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Main Menu

KMGE Airport/FBO Info

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DOBBINS AIR RESERVE BASE MARIETTA GA

Time Zone: Eastern

Lat: N 3354.9 Long: W 08431.0 Elev: 1068 Var: +03 Longest Runway: 10000

Dept. ATIS: 271.6 Arr. ATIS: 271.6 Ground: 125.3 Tower: 120.75

### FBO & Flight Services info for KMGE:

[FBOs: Update your Fuel Prices](#)

U.S. AIR FORCE

Ph: PRIVATE USE

Fax: N/A

**ENTER FUEL PRICES**

If you are an FBO, call 1-203-262-8900 to update your info or email: [Support@FitPlan.com](mailto:Support@FitPlan.com)

Advertise your FBO on FitPlan.com

### Runway & Approach Info for KMGE

Rwy	Length	Land Dist Avail**	Approach*	Rwy	Length	Land Dist Avail**	Approach*
11	10000x300	10000'	LOC/GS 109.70 - 109°	29	10000x300	10000'	LOC/GS 111.35 - 286°
110	4000x60	4000'		290	4000x60	4000'	

\* only ILS, LOC, LDA, and SDF approaches to a specific runway are shown

\*\* For any Declared Landing Distance Available, please see A/FD or Approach plates

### Runway Weight Capability (lbs.) [more info on Runway Weight Capability](#)

Runway ID	Single Wheel	Double Wheel	Double Tandem Wheel	Dual Double Wheel
11/29	200,000	300,000	560,000	N/A
110/290	N/A	N/A	N/A	N/A

These numbers are Advisory and are not limits. The Airport Manager should have more accurate Weight Limits. Please email [Support@FitPlan.com](mailto:Support@FitPlan.com) for further information.

### Approach Charts for KMGE

View Approaches for KMGE (for fast viewing) AWSON ONE

View Approaches for KMGE (PDF format for printing.)

### Current Weather (Metars, TAFs, Notams, NWS Forecast, PIREPS, and nearby weather)

(Metars, TAFs, Notams, NWS Forecast, PIREPS, and nearby weather)

### Customs Information

( Send updates to [Support@FitPlan.com](mailto:Support@FitPlan.com) )

Phone: 404-765-2300

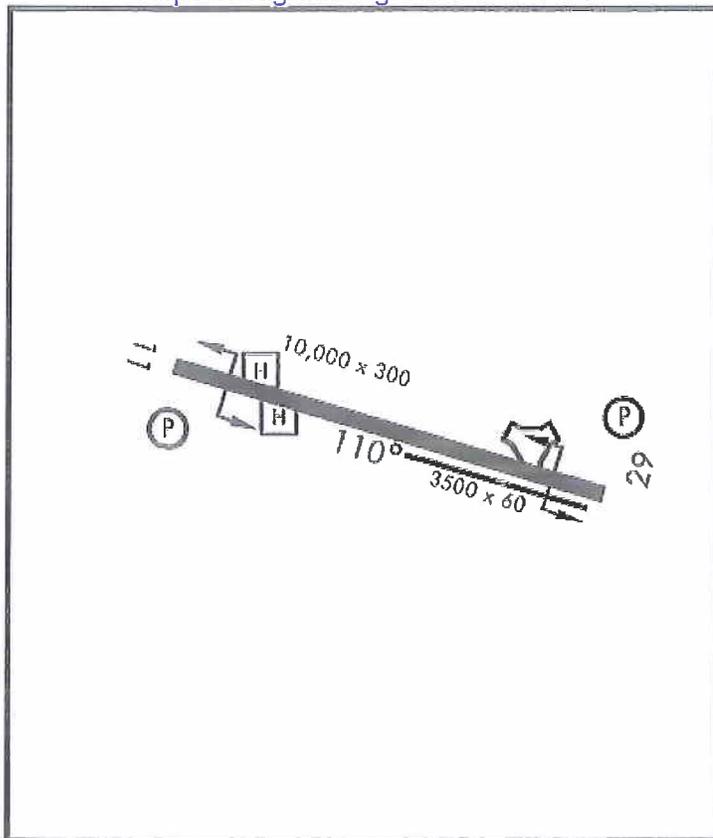
Fax: N/A

Comments: On-call basis 2 hrs advance notice required 4 hrs after hours

Click here to view [A/FD \(Airport/Facility Directory\)](#) for DOBBINS AIR RESERVE BASE

Database effective date: 04/05/2012

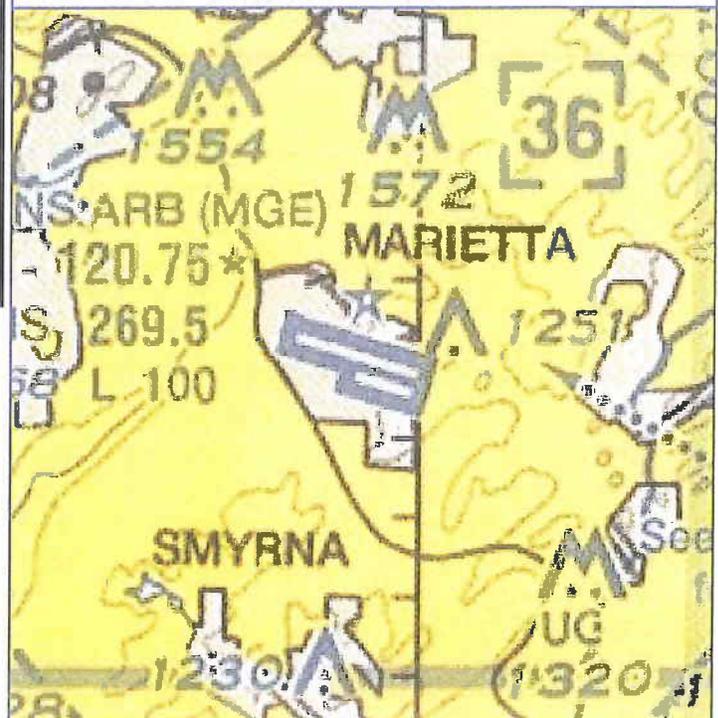
Airport Diagram might not be current.



**No Aerial Photo Available**

Have an aerial photo of this airport that you would like to share with other FltPlan.com users?

**[Click here to find out how to submit your photo.](#)**



[Click here for full scale & interactive Sectional view of KMGE](#)

Facility Name:	DOBBINS AIR RESERVE BASE
City Name:	MARIETTA
County:	COBB
State abbrev:	GA
State Name:	GEORGIA
Ownership:	AIR FORCE OWNED
Use:	PRIVATE
Owner's Name:	USAF
Address:	DOBBINS AFB MARIETTA, GA 30060
Owner's Phone:	
Manager's Name:	CHIEF OF AFLD MANAGEMENT
Address:	DOBBINS AFB MARIETTA, GA 30060
Phone:	
FAA Region:	SOUTHERN
FAA Field Office:	ATL

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Airports  Weather Radar

Grid Fixes  Jet Airways

Airspace & TFRs  Victor Airways

State Outlines

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**Sunrise / Sunset times for: DOBBINS AIR RESERVE BASE**

Date:	Sunrise	Sunset	Date:	Sunrise	Sunset
05/01/12 Tuesday	6:48	20:22	05/08/12 Tuesday	6:42	20:28
<b>05/02/12 Wednesday</b>	<b>6:47</b>	<b>20:23</b>	05/09/12 Wednesday	6:41	20:28
05/03/12 Thursday	6:46	20:24	05/10/12 Thursday	6:40	20:29
05/04/12 Friday	6:45	20:25	05/11/12 Friday	6:39	20:30
05/05/12 Saturday	6:44	20:25	05/12/12 Saturday	6:38	20:31
05/06/12 Sunday	6:44	20:26	05/13/12 Sunday	6:38	20:32
05/07/12 Monday	6:43	20:27	05/14/12 Monday	6:37	20:32

**Airport Facilities**

Airport Attendance Schedule: MON-FRI 1200-0400Z++; NAVY - OPR 1230-0400Z++. SEE FLIP AP/1 FOR SUPPLEMENTARY ARPT

Airport Status: OPERATIONAL (This Status can change at any time - please check NOTAMS)

Airport Lighting Schedule:

Airport Storage Available: NONE

Extra Services Available: Cargo Handling

Wind Indicator: YES - (unlit)

Control Tower: **YES**

CTAF Frequency:

Unicom Frequency:

Rotating Beacon Color: CLEAR-GREEN (Light Land Airport)

Segmented Circle: NO

Landing Fee:

**Airport Services**

Type of Fuel Available: Grade 100LL, Grade 115, JET B (wide-cut turbine fuel, icing inhibitor, freeze point -50C)  
 Airframe Repair Service: MAJOR  
 Power Plant Repair Service: MAJOR

**Geographic Data**

Latitude: **N3354.9** Longitude: **W08431.0** (ESTIMATED)  
 Arpt Elevation: **1068ft** (SURVEYED)  
 Magnetic Variation: **03W**  
**1 miles S** of **MARIETTA**  
 Traffic Pattern Altitude: TFC PAT: OVERHEAD, ENTER INITIAL AT 3500'; DESCEND TO 2600'; LEVEL BREAK AT RWY THLD.  
 Sectional Chart: ATLANTA

**Aircraft Data**

Operations (reported)	Yearly	Avg. Daily	Aircraft based on Field	
General Aviation transient:	0	0	General Aviation Singles:	0
General Aviation Local:	0	0	General Aviation Multi:	0
Air Taxi:	0	0	Jet Aircraft:	0
Commerical:	0	0	General Aviation Helicopters:	0
Commuter:	0	0	Military Aircraft:	0
Military:	87297	239	Gliders:	0
			Ultralights:	0

**FAA Services**

FSS on field: NO  
 FSS tie-in: MACON  
 FSS Phone: 1-800-WX-BRIEF  
 Who issues Notams: MGE  
 Notam D service at airport: **YES**  
 ARTCC Name: ATLANTA

**Federal Status**

Airport Certification:  
 Aircraft Rescue & Firefighting Index: AIRPORT HAS A CERTIFICATE UNDER CFR PART 139  
 Airport of Entry: No  
 Custom Landing Rights: No  
 Joint Civil/Military: No  
 Military Landing rights: YES

**Runway Identification: 11/29**

Length: 10000 ft  
 Width: 300 ft  
 Surface: CONCRETE  
 Edge lights: High Intensity  
 Weight: PCN 83 /R/B/W/T

**Runway: 11**

Mag heading: 109°  
 Rwy Slope: -.79% Down  
 Approach: LOC/GS  
 Pattern: Left Traffic  
 Markings:  
 Marking Condition:  
 Arresting Dev: BAK-12; HOOK BAK-12(B) (1490 FT). (BI-DIRECTIONAL).  
 Lat & Long: N3355.1 W08431.9  
 Elev: 1068.5 ft. MSL  
 TCH: 55 ft. AGL  
 Visual Glide Path: 3.00 degrees  
 Displaced Threshold: No  
 Touchdown Zone: **YES**  
 Touchdown Elev.: 1068.0 feet  
 Visual Glide Slope: 4-Light PAPI on LEFT side of Runway  
 RVR Equipment: TOUCHDOWN  
 RVV Equipment: NO

**Runway: 29**

Mag heading: 289°  
 Rwy Slope: .79% Up  
 Approach: LOC/GS  
 Pattern: Left Traffic  
 Markings:  
 Marking Condition:  
 Arresting Dev: BAK-12; HOOK BAK-12 (B) (1490FT). (BI-DIRECTIONAL).  
 Lat. & Long.: N3354.7 W08430.0  
 Elev: 989.6 ft. MSL  
 TCH: 58 ft. AGL  
 Visual Glide Path: 3.00 degrees  
 Displaced Threshold: No  
 Touchdown Zone: **YES**  
 Touchdown Elev.: 1014.0 feet  
 Visual Glide Slope: 4-Light PAPI on LEFT side of Runway  
 RVR Equipment: TOUCHDOWN  
 RVV Equipment: NO

Approach Lights: ALSF1 - standard 2,400 foot high intensity approach lighting system  
 with sequenced flashers, Category I  
 REIL: YES  
 Centerline Lights: NO  
 Touchdown lights: NO  
 Runway Category:  
 Declared Distances:

Approach Lights: SALSF  
 REIL: YES  
 Centerline Lights: NO  
 Touchdown lights: NO  
 Runway Category:  
 Declared Distances:

### Runway Identification: 110/290

Length: 4000 ft  
 Width: 60 ft  
 Surface: ASPHALT  
 Edge lights: High Intensity  
 Weight: PCN 43 /R/C/W/T

#### Runway: 110

Mag heading: N/A  
 Approach:  
 Pattern: Left Traffic  
 Markings:  
 Marking Condition:  
 Arresting Dev:  
 Lat & Long:  
 Elev: N/A  
 TCH:  
 Visual Glide Path:  
 Displaced Threshold: No  
 Touchdown Zone: NO  
 Touchdown Elev.:  
 Visual Glide Slope:  
 RVR Equipment:  
 RVV Equipment: NO  
 Approach Lights:  
 REIL: NO  
 Centerline Lights: NO  
 Touchdown lights: NO  
 Runway Category:  
 Declared Distances:

#### Runway: 290

Mag heading: N/A  
 Approach:  
 Pattern: Left Traffic  
 Markings:  
 Marking Condition:  
 Arresting Dev:  
 Lat. & Long.:  
 Elev: N/A  
 TCH:  
 Visual Glide Path:  
 Displaced Threshold: No  
 Touchdown Zone: NO  
 Touchdown Elev.:  
 Visual Glide Slope:  
 RVR Equipment:  
 RVV Equipment: NO  
 Approach Lights:  
 REIL: NO  
 Centerline Lights: NO  
 Touchdown lights: NO  
 Runway Category:  
 Declared Distances:

#### Remarks

- LGT: FOR OLS RY 11-29 LCTN DATA SEE FLIP AP/1 SUPPLEMENTARY ARPT
- JASU AF: 1(A/MA32A-86) 2(AM32-95) 1(AM32A-60A)
- FUEL: OPR 1130-0430Z++. TRAN ACFT EXP 1 HR FUEL DELAY. J8, J8+100. LHNIT
- FLUID: SP PRESAIR LOX LPOX LPNIT NO DE-ICE AVBL FOR TRAN ACFT.
- OIL: O-148-156 SOAP/JOAP, NO LAB SVC.
- TRAN ALERT: OPR 1200-0400Z++ MON-SUN.
- ARNG: ACFT/AIRCREWS DESIRING TO VISIT AASF#2, CTC DSN 625-5287 PRIOR TO ARR. ACFT DESIRING TO LAND/PARK AT CAMP CLAY NGC RAMP CTC 678-569-3513/3509/3664. 24 HR PPR REQUIRED. NO SERVICES/TRANSIENT ALERT AVBL.
- AR: CTC C678-655-5284/5, 132.95. NO TRAN FUEL/SVC. LTD RAMP SPACE, PRIOR COORD RQR TO USE ASF RAMP.
- RSTD: PPR DSN 625-4903, C678-655-4903. ACFT RSTD DUR BIRD WATCH COND MODERATE (TKOF/LDG PERMS WHEN DEP/ARR RTE AVOID IDENT BIRD ACT, NO LCL IFR/VFR TFC PAT ACFT) AND SEVERE (TKOF/LDG PROH WO 94TH OG/CC APVL), CTC BASE OPS FOR CURRENT BIRD WATCH COND.
- RSTD: HAZ CARGO RSTD TO C130 OR SMALLER ACFT, 24 HR PN RQR. DO NOT TRANS ON HF WO TWR APVL. CTC BASE OPS 20 MIN PRIOR TO LDG TO CONFIRM PPR AND SVCG/LOAD. TO PRK AF SIDE PPR, DSN 625-4903. AFLD OFFL BUS ONLY 0400-1200Z++. ASSAULT LDG ZONE LCL USE ONLY.
- MISC: WINDS ARE EST DUE TO FMQ-13 WIND SENSORS BEING ACCURATE TO WITHIN ONLY +/-4 KT. ATC/WX WILL NOT INCL/RELAY WIND CORR INTO FCST/PHRASEOLOGY. THEREFORE, AIRCREWS WILL INCORPORATE A +/- 4 KT ACCURACY INTO THEIR DECISION MAKING PROCESS FOR FLYING OPR.
- MISC: LTD TRAN 1200-2100Z++ WKD. ALL OT MUST BE COORD WITH TRAN 24 HR PN WKD. THIS INCL ON/OFF BASE AND TO/FR FLT LINE CTC DSN 625-3667. BASE OPS DOES NOT HAVE COMSEC AVBL FOR TRANS CREWS AND HAS NO STOR CAPABILITIES. RSRs APPLIED TO BASE ASGN ACFT ONLY; STD USAF RSRs NOT APPLICABLE.
- MISC: BASE OPS FAX DSN 625-4915.
- RADAR: SEE TERMINAL FLIP FOR RADAR MINIMA.
- MISC: RY 29 NON-STD APCH LIGHTS, STATION 1+00 NOT INSTALLED, STATION 2+00 CENTER LIGHT WRONG COLOR LENS.
- OIL: NO LAB SVC.
- SERVICE: A-GEAR: RY 11/29 BAK-12 OPR 1300Z++ TO OFFL SS MON - FRI. ALL OTHER TIMES DISCONNECTED. BAK-12 IN RAISED POSN ON DEP END OF ACT RY. BAK-12 RQR 30 MIN PN FOR APCH END ENGAGEMENT.
- MISC: UDI/LOANER VEH NOT AVBL WO VALID AF FORM 2293, GOVT LICENSE.
- SERVICE-A-GEAR: RY 11-29 BAK-12 (REDUCED ARRESTING SYSTEM RELIABILITY). OPR 1300Z++ TO OFFL SS, MON-FRI. ALL OTHER TIMES DISCONNECTED. BAK-12 IN RAISED POSN ON DEP END OF ACT RY. BAK-12 RQR 30 MIN PN FOR APCH END ENGAGEMENT.
- RY 11/29 CLSD LAST SAT OF EACH MONTH FOR CONST 1200-2100Z++.
- RSTD: PPR ONLY COORD/ISSUED 30 DAYS IN ADVANCE.
- CLASSIFIED AND COMSEC STOR 30 MIN PN RQR, CTC DSN 625-5106, C678-655-5106, MON-THU, 1200-0400Z++, FRI 1200-0200Z++, SAT-SUN, UNIT

TRNG WKEND 1200-2100Z ++. OT 2 HR PN. COMSEC STOR, MON-FRI 1230-2100Z++, CTC DSN 625-5154, ALL OTHER TIMES, BEEPER 770-747-6743 OR CELL PHONE 504-329-9938.

- MISC: LM - PPR FOR USE OF LOCKHEED MARTIN PRK RAMP OR FAC, CTC C800-825-6083.
- PMSV METRO: AWOS IN USE; AUGMENTED DUR AFLD OPR HRS.
- RWY 11/2 9 RY 11/29 CLSD LAST SAT EACH MONTH FOR CONST, 1200-2100Z++.

### Airport Inspection Data

Airport Inspected: No Inspection Data Available performed by the OWNER  
Inspection Date: Unknown

### Airport Communications & Frequencies:

ATIS Frequencies: Hours(local) of Operation; **0700-2300**

269.5

DOBBINS Tower Frequencies: Hours(local) of operation; **1200-0400Z++**

120.75

370.875

DOBBINS Ground Frequencies:

125.3

275.8

Emergency Frequencies:

121.5

243.0

### Remarks

- PAR LCTD LAT 33-54-59.69N LONG 084-30-55.65W; ELEV 1024.
- CALL DAPPER DAN
- FULL SVC AVBL 1100-0400Z++, DSN 625-5190. OT CTC 26TH OWS DSN 331-2651, COMM 318-529-2604. 274.75.

ATLANTA Primary Approach Frequencies:

121.0

268.7

ATLANTA Primary Departure Frequencies:

121.0

268.7

11/5/11

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**Worksheet D**  
**Railway Noise**

List All Railways within 3000 feet of the site:

- |   |   |           |
|---|---|-----------|
| 1 | <u>CSX Transportation (Crossing Inventory 340408K)</u>      |           |
| 2 | <u>CSX Transportation (Crossing Inventory 340406W)</u>      | 1/2/3/4/5 |
| 3 | <u>No other railways within 3000 feet of site, per maps</u> |           |

Necessary Information:	Railway No. 1	Railway No. 2	Railway No. 3
1. Distance in feet from the NAL to the railway track:	388 / 371 / 470 / 659 / 487	1567 / 1416 / 1338 / 1353 / 1480	_____
2. Number of trains in 24 hours:			
a. diesel	25	6	_____
b. electrified	_____	_____	_____
3. Fraction of operations at night (10 p.m. - 7 a.m.):	0.5	0.5	_____
4. Number of diesel locomotives per train:	2	2	_____
5. Number of rail cars per train:			
a. diesel trains	60	60	_____
b. electrified trains	_____	_____	_____
6. Average train speed:	35	10	_____
7. Is track welded or bolted? (w/b)	w	w	_____
8. Are whistles or horns required for grade crossings? (y/n)	y	y	_____

*Matthew W. Roney* 6/13/12



TWO RAILWAYS WERE FOUND WITHIN A 3000-FT RADIUS OF THE SITE.

NAL	Rail 1		Rail 2		Combined Rail DNL (dB)
	Distance (feet)	DNL (dB)	Distance (feet)	DNL (dB)	
1	388	72.4	1567	62.6	72.8
2	371	72.7	1416	63.2	73.2
3	470	71.2	1338	63.6	71.9
4	659	69.0	1353	63.5	70.1
5	487	70.9	1480	62.9	71.5

Image courtesy of Google Earth

**RAILWAYS - 3000-FT RADIUS  
THE VILLAS AT STANFORD  
KENNESAW, COBB COUNTY, GEORGIA**

GEC PROJECT NO. 120392.240

**GEC**  
GEOTECHNICAL  
&  
ENVIRONMENTAL  
CONSULTANTS, INC.

514 HILLCREST INDUSTRIAL BLVD.  
MACON, GEORGIA 31204  
478-757-1606 (Fax) 478-757-1608  
WWW.GECONSULTANTS.COM

**U.S. DOT - CROSSING INVENTORY INFORMATION  
AS OF 6/13/2012**

Crossing No.: **340408K**      Update Reason: **Changed Crossing**      Effective Begin-Date of Record: **01/01/11**  
 Railroad: **CSX CSX Transportation [CSX]**      End-Date of Record:  
 Initiating Agency **Railroad**      Type and Position: **Public At Grade**

**Part I Location and Classification of Crossing**

Division:	<b>ATLANTA DIVISI</b>	State:	<b>GA</b>
Subdivision:	<b>W AND A</b>	County:	<b>COBB</b>
Branch or Line Name:	<b>W&amp;A</b>	City:	<b>In KENNESAW</b>
Railroad Milepost:	<b>0028.65</b>	Street or Road Name:	<b>CHEROKEE ST</b>
RailRoad I.D. No.:	<b>OWA</b>	Highway Type & No.:	<b>CR 68</b>
Nearest RR Timetable Stn:	<b>KENNESAW</b>	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	<b>067</b>
Crossing Owner:		Latitude:	<b>34.0233000</b>
ENS Sign Installed:	<b>Yes</b>	Longitude:	<b>-84.6147000</b>
Passenger Service:		Lat/Long Source:	<b>Neither</b>
Avg Passenger Train Count:	<b>0</b>	Quiet Zone:	<b>No</b>
Adjacent Crossing with Separate Number:	<b>No</b>		

**Private Crossing Information:**

Category:		Public Access:	<b>Unknown</b>
	Specify Signs:		Specify Signals:
	ST/RR A	ST/RR B	ST/RR C
Railroad Use:	<b>320733353 - 3 FILES</b>		<b>341760755 305525568</b>
State Use:			

Narrative:

Emergency Contact: **(800)232-0144**      Railroad Contact:      State Contact: **(404)631-1376**

**Part II Railroad Information**

Number of Daily Train Movements:		Less Than One Movement Per Day:	<b>No</b>
Total Trains:	<b>26</b>	Total Switching:	<b>1</b>
Typical Speed Range Over Crossing: From	<b>2</b>	Day Thru:	<b>14</b>
	to <b>35</b> mph	Maximum Time Table Speed:	<b>35</b>
Type and Number of Tracks:	Main: <b>1</b>	Other: <b>1</b>	Specify: <b>SWITCHPASS</b>
Does Another RR Operate a Separate Track at Crossing?			<b>No</b>
Does Another RR Operate Over Your Track at Crossing?			<b>No</b>

# U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing **340408K**

Continued

Effective Begin-Date of Record: **01/01/11**

End-Date of Record:

## Part III: Traffic Control Device Information

**Signs:**

Crossbucks:	<b>0</b>	Highway Stop Signs:	<b>0</b>
Advanced Warning:	<b>Yes</b>	Hump Crossing Sign:	
Pavement Markings:	<b>Stop Lines and RR Xing Symbols</b>	Other Signs:	<b>1</b> Specify: <b>NO TRK\TRL</b>
			<b>0</b>

**Train Activated Devices:**

Gates:	<b>2</b>	4 Quad or Full Barrier:	
Mast Mounted FL:	<b>2</b>	Total Number FL Pairs:	<b>4</b>
Cantilevered FL (Over):	<b>0</b>	Cantilevered FL (Not over):	<b>0</b>
Other Flashing Lights:	<b>0</b>	Specify Other Flashing Lights:	
Highway Traffic Signals:	<b>0</b>	Wigwags:	<b>0</b> Bells: <b>1</b>
Other Train Activated Warning Devices:		Special Warning Devices Not Train Activated:	
Channelization:		Type of Train Detection:	<b>Constant Warning Time</b>
Track Equipped with Train Signals?	<b>Yes</b>	Traffic Light Interconnection/Preemption:	<b>Simultaneous Preemption</b>

## Part IV: Physical Characteristics

Type of Development:	<b>Commercial</b>	Smallest Crossing Angle:	<b>60 to 90 Degrees</b>
Number of Traffic Lanes Crossing Railroad:	<b>3</b>	Are Truck Pullout Lanes Present?	<b>No</b>
Is Highway Paved?	<b>Yes</b>	If Other:	
Crossing Surface:	<b>Timber</b>	Is it Signalized?	
Nearby Intersecting Highway?	<b>N/A</b>	Is Crossing Illuminated?	
Does Track Run Down a Street?	<b>No</b>		
Is Commercial Power Available?	<b>Yes</b>		

## Part V: Highway Information

Highway System:	<b>Non-Federal-aid</b>	Functional Classification of Road at Crossing:	<b>Urban Collector</b>
Is Crossing on State Highway System:	<b>No</b>	AADT Year:	<b>1986</b>
Annual Average Daily Traffic (AADT):	<b>001800</b>	Avg. No of School Buses per Day:	<b>0</b>
Estimated Percent Trucks:	<b>05</b>		
Posted Highway Speed:	<b>0</b>		

**U.S. DOT - CROSSING INVENTORY INFORMATION  
AS OF 6/13/2012**

Crossing No.: **340406W**      Update Reason: **Changed Crossing**      Effective Begin-Date of Record: **01/01/11**  
Railroad: **CSX CSX Transportation [CSX]**      End-Date of Record:  
Initiating Agency **Railroad**      Type and Position: **Public At Grade**

**Part I Location and Classification of Crossing**

Division:	<b>ATLANTA</b>	State:	<b>GA</b>
Subdivision:	<b>WTA</b>	County:	<b>COBB</b>
Branch or Line Name:	<b>QUARRY LEAD 02</b>	City:	<b>Near KENNESAW</b>
Railroad Milepost:	<b>0028.04</b>	Street or Road Name:	<b>MCCOLLUM PARWAY</b>
RailRoad I.D. No.:	<b>LWA</b>	Highway Type & No.:	<b>S2583</b>
Nearest RR Timetable Stn:	<b>KENNESAW</b>	HSR Corridor ID:	
Parent Railroad:		County Map Ref. No.:	<b>067</b>
Crossing Owner:		Latitude:	<b>34.0180020</b>
ENS Sign Installed:		Longitude:	<b>-84.5989000</b>
Passenger Service:		Lat/Long Source:	
Avg Passenger Train Count:	<b>0</b>	Quiet Zone:	<b>No</b>
Adjacent Crossing with Separate Number:			

**Private Crossing Information:**

Category:		Public Access:		
	Specify Signs:		Specify Signals:	
	ST/RR A	ST/RR B	ST/RR C	ST/RR D
Railroad Use:				
State Use:				
Narrative:				
Emergency Contact:	<b>(800)232-0144</b>	Railroad Contact:		State Contact: <b>(404)631-1376</b>

**Part II Railroad Information**

Number of Daily Train Movements:		Less Than One Movement Per Day:	<b>No</b>		
Total Trains:	<b>6</b>	Total Switching:	<b>6</b>	Day Thru:	<b>0</b>
Typical Speed Range Over Crossing: From	<b>5</b>	to	<b>10</b> mph	Maximum Time Table Speed:	<b>10</b>
Type and Number of Tracks:	Main: <b>0</b>	Other	<b>1</b>	Specify:	<b>IND.SPUR</b>
Does Another RR Operate a Separate Track at Crossing?			<b>No</b>		
Does Another RR Operate Over Your Track at Crossing?			<b>No</b>		

# U.S. DOT - CROSSING INVENTORY INFORMATION

Crossing *340406W*

Continued

Effective Begin-Date of Record: *01/01/11*

End-Date of Record:

## Part III: Traffic Control Device Information

**Signs:**

Crossbucks:	<i>0</i>	Highway Stop Signs:	<i>0</i>
Advanced Warning:	<i>Yes</i>	Hump Crossing Sign:	
Pavement Markings:	<i>Stop Lines and RR Xing Symbols</i>	Other Signs:	<i>0</i>
		Specify:	<i>0</i>

**Train Activated Devices:**

Gates:	<i>2</i>	4 Quad or Full Barrier:	
Mast Mounted FL:	<i>2</i>	Total Number FL Pairs:	<i>0</i>
Cantilevered FL (Over):	<i>0</i>	Cantilevered FL (Not over):	<i>0</i>
Other Flashing Lights:	<i>0</i>	Specify Other Flashing Lights:	
Highway Traffic Signals:	<i>0</i>	Wigwags:	<i>0</i>
Other Train Activated Warning Devices:		Bells:	<i>1</i>
Channelization:		Special Warning Devices Not Train Activated:	<i>CREW FLAGGING</i>
Track Equipped with Train Signals?	<i>No</i>	Type of Train Detection:	<i>None</i>
		Traffic Light Interconnection/Preemption:	

## Part IV: Physical Characteristics

Type of Development:	<i>Commercial</i>	Smallest Crossing Angle:	<i>60 to 90 Degrees</i>
Number of Traffic Lanes Crossing Railroad:	<i>2</i>	Are Truck Pullout Lanes Present?	<i>No</i>
Is Highway Paved?	<i>Yes</i>	If Other:	
Crossing Surface:	<i>Asphalt</i>	Is it Signalized?	
Nearby Intersecting Highway?	<i>N/A</i>	Is Crossing Illuminated?	
Does Track Run Down a Street?	<i>No</i>		
Is Commercial Power Available?	<i>Yes</i>		

## Part V: Highway Information

Highway System:	<i>Other FA Highway - Not NHS</i>	Functional Classification of Road at Crossing:	<i>Urban Collector</i>
Is Crossing on State Highway System:	<i>No</i>	AADT Year:	<i>1989</i>
Annual Average Daily Traffic (AADT):	<i>010000</i>	Avg. No of School Buses per Day:	<i>0</i>
Estimated Percent Trucks:	<i>04</i>		
Posted Highway Speed:	<i>0</i>		



RAILWAY NOISE QUESTIONNAIRE

DATE: 06/02/12

PROJECT: Villas at Stanford

PROJECT NO: 120392.240

ATTN: Management

RAILROAD: CSX Transportation

CONTACT: tellcsx@csx.com

SUBJECT: R.F.I. for U.S. DOT Crossing No. 340408K

STREET / ROAD: Cherokee Street

CITY: Kennesaw

COUNTY: Cobb

STATE: Georgia

Geotechnical & Environmental Consultants, Inc. (GEC) is currently conducting a Noise Assessment for a site within 3000 feet of the above referenced crossing. For the subject crossing, the data below indicates the most-recent inventory information obtained from the Federal Railroad Administration (FRA) Office of Safety Analysis website, http://safetydata.fra.dot.gov.

Table with 4 rows and 2 columns: Daily Total Number of Trains (26), Daily Total Number of Switching (1), Total Number of Main Tracks (1), Total Number of Other Tracks (1), Average Time Table Speed (mph) (35), Electric or Diesel Train? ("E" or "D") (D)

For the purposes of our assessment, please briefly answer the following questions and return to GEC via fax at (478) 757-1608 or email at mhlatvy@geconsultants.com.

Is the data above for this crossing accurate (if not, explain below)? 25 average trains per day

What is the fraction of operations occurring at night (10 p.m - 7 a.m.)? 0.5

If diesel, what is the number of diesel locomotives (engines) per train? 2

What is the number of rail cars per train? 40 - 100

Is the track welded or bolted? welded

Are whistles or horns required for grade crossings? yes

REMARKS:

Thanks for your assistance in this matter. If you have any questions or desire any further information, please contact our office.

Sincerely, Matthew W. Hlatvy

Information Provided By: CSX Team Date: 6/1/2012



RAILWAY NOISE QUESTIONNAIRE

DATE: 06/02/12

PROJECT: Villas at Stanford

PROJECT NO: 120392.240

ATTN: Management

RAILROAD: CSX Transportation

CONTACT: tellcsx@csx.com

SUBJECT: R.F.I. for U.S. DOT Crossing No. 340406W

STREET / ROAD: McCollum Parkway

CITY: Kennesaw

COUNTY: Cobb

STATE: Georgia

Geotechnical & Environmental Consultants, Inc. (GEC) is currently conducting a Noise Assessment for a site within 3000 feet of the above referenced crossing. For the subject crossing, the data below indicates the most-recent inventory information obtained from the Federal Railroad Administration (FRA) Office of Safety Analysis website, http://safetydata.fra.dot.gov.

Table with 4 rows and 2 columns: Daily Total Number of Trains (6), Daily Total Number of Switching (6), Total Number of Main Tracks (0), Total Number of Other Tracks (1), Average Time Table Speed (mph) (10), Electric or Diesel Train? ("E" or "D") (D)

For the purposes of our assessment, please briefly answer the following questions and return to GEC via fax at (478) 757-1608 or email at mhlavaty@geconsultants.com.

Is the data above for this crossing accurate (if not, explain below)?

What is the fraction of operations occurring at night (10 p.m – 7 a.m.)? 0.5

If diesel, what is the number of diesel locomotives (engines) per train? 2

What is the number of rail cars per train? 40 - 100

Is the track welded or bolted? welded

Are whistles or horns required for grade crossings? yes

REMARKS:

Thanks for your assistance in this matter. If you have any questions or desire any further information, please contact our office.

Sincerely, Matthew W. Hlavaty

Information Provided By: CSX Team

Date: 6/1/2012

Community Planning and Development

- About CPD
Economic Development
Community Development
Affordable Housing
Homeless Assistance
HUDVet
Environment
Environmental Contacts
Review Requirements
Laws and Regulations
Training
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HIV/AIDS Housing
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Site DNL Calculator

Providing Feedback & Corrections

After using the DNL Assessment Tool, following the directions in the User's Guide, users are encouraged to provide feedback on how the DNL Assessment Tool may be improved.

Related Information

- Day/Night Noise Level Assessment Tool User Guide
Day/Night Noise Level Assessment Tool Flowcharts

System Requirements

- Internet Explorer 6.0 or above
Adobe Reader
Enabling JavaScript

For more information on using the noise calculator, to access the user guidebook, or send comments, please visit the following page:

Day/Night Noise Level Electronic Assessment Tool

Guidelines:

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
All Road and Rail input values must be positive non-decimal numbers.
All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
Note #1: Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
Note #2: DNL Calculator assumes roadway data is always entered.

Site ID NAL 1

Record Date 6/12/2012

User's Name Matthew Hlavaty

Road # 1 Name: S. Main Street

Table with 4 columns: Vehicle Type, Cars, Medium Trucks, Heavy Trucks. Rows include Effective Distance, Distance to Stop Sign, Average Speed, Average Daily Trips (ADT), and Night Fraction of ADT.

Road Gradient (%)			4
Vehicle DNL	56.7176	53.0996	64.119
Calculate Road #1 DNL	65.1616	Reset	

Railroad # Click on this button to determine the Day-Night Noise Level (DNL) for the road and vehicles being assessed in units of decibel (dB).

Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		388
Average Train Speed		35
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		25
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		72.4202
Calculate Rail #1 DNL	72.4202	Reset

Railroad #2 Track Identifier: CSX (Crossing Inventory 340406W)

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		1567
Average Train Speed		10
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		6
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		62.5694
Calculate Rail #2 DNL	62.5694	Reset

Add Road Source Add Rail Source

Airport Noise Level 57.2

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources 73.5004

Combined DNL including Airport 73.5004

Site DNL with Loud Impulse Sound



### Site DNL Calculator

#### Community Planning and Development

- About CPD
- Economic Development
- Community Development
- Affordable Housing
- Homeless Assistance
- HUDVet

- Environment
  - Environmental Contacts
  - Review Requirements
  - Laws and Regulations
  - Training
  - Resource Library
- Acquisition/Relocation
- Energy
- HIV/AIDS Housing
- Technical Assistance
- Online Systems/Databases
- Library
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#### Providing Feedback & Corrections

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#### Related Information

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- ▶ [Day/Night Noise Level Assessment Tool Flowcharts](#)

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- ▶ Enabling JavaScript

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- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	122	122	122
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	16517	718	718
Night Fraction of ADT	15	15	15

Site DNL Calculator - Environment and Energy - CPD - HUD

Road Gradient (%)			4
Vehicle DNL	60.676	57.0579	68.076
Calculate Road #1 DNL	69.1189	Reset	

Railroad #1 Track Identifier: CSX (Crossing Inventory 340408K)

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		371
Average Train Speed		35
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		25
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		72.712
Calculate Rail #1 DNL	72.712	Reset

Railroad #2 Track Identifier: CSX (Crossing Inventory 340406W)

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		1416
Average Train Speed		10
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		6
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		63.2295
Calculate Rail #2 DNL	63.2295	Reset

Add Road Source      Add Rail Source

Airport Noise Level 57.2

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources 74.6503

Combined DNL including Airport 74.6503

Site DNL with Loud Impulse Sound

**Site DNL Calculator**

**Community Planning and Development**

- About CPD
- Economic Development
- Community Development
- Affordable Housing
- Homeless Assistance
- HUDVet
- Environment
  - Environmental Contacts
  - Review Requirements
  - Laws and Regulations
  - Training
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- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	154	154	154
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	16517	718	718
Night Fraction of ADT	15	15	15

Road Gradient (%)			4
Vehicle DNL	59.1585	55.5405	66.5595
Calculate Road #1 DNL	67.6022	Reset	

Railroad #1 Track Identifier: CSX (Crossing Inventory 340408K)

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		470
Average Train Speed		35
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		25
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		71.1712
Calculate Rail #1 DNL	71.1712	Reset

Railroad #2 Track Identifier: CSX (Crossing Inventory 340406W)

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		1338
Average Train Speed		10
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		6
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		63.5986
Calculate Rail #2 DNL	63.5986	Reset

Add Road Source      Add Rail Source

Airport Noise Level 57.2

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources 73.2803

Combined DNL including Airport 73.2803

Site DNL with Loud Impulse Sound

### Site DNL Calculator

#### Community Planning and Development

- About CPD
- Economic Development
- Community Development
- Affordable Housing
- Homeless Assistance
- HUDVet
- Environment
  - Environmental Contacts
  - Review Requirements
  - Laws and Regulations
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#### Resources

#### Communities

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#### Related Information

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- ▶ [Day/Night Noise Level Assessment Tool Flowcharts](#)

#### System Requirements

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- ▶ [Enabling JavaScript](#)

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[Day/Night Noise Level Electronic Assessment Tool](#)

#### Guidelines:

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- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	311	311	311
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	16517	718	718
Night Fraction of ADT	15	15	15

Road Gradient (%)			4
Vehicle DNL	54.5799	50.9619	61.98
Calculate Road #1 DNL	63.0229	Reset	

Railroad #1 Track Identifier: CSX (Crossing Inventory 340408K)

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		659
Average Train Speed		35
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		25
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		68.9694
Calculate Rail #1 DNL	68.9694	Reset

Railroad #2 Track Identifier: CSX (Crossing Inventory 340406W)

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		1353
Average Train Speed		10
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		6
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		63.526
Calculate Rail #2 DNL	63.526	Reset

Add Road Source      Add Rail Source

Airport Noise Level 57.2

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources 70.8691

Combined DNL including Airport 71.0856

Site DNL with Loud Impulse Sound

### Site DNL Calculator

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- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	240	240	240
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	16517	718	718
Night Fraction of ADT	15	15	15

Road Gradient (%)			4
Vehicle DNL	56.2682	52.6501	63.669
Calculate Road #1 DNL	64.7118	Reset	

Railroad #1 Track Identifier: CSX (Crossing Inventory 340408K)

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		487
Average Train Speed		35
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		25
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		70.9397
Calculate Rail #1 DNL	70.9397	Reset

Railroad #2 Track Identifier: CSX (Crossing Inventory 340406W)

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		1480
Average Train Speed		10
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		6
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL		62.9415
Calculate Rail #2 DNL	62.9415	Reset

Add Road Source      Add Rail Source

Airport Noise Level 57.2

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources 72.3744

Combined DNL including Airport 72.5157

Site DNL with Loud Impulse Sound

# Noise Mitigation Plan

**GEC**



June 13, 2012

Mr. Jay Ronca  
c/o Vantage Development, LLC  
1544 South Main Street  
Fyfee, AL 35971

**Re: The Villas at Stanford On-Site Noise Study  
GEC Project No. 120392.241**

Dear Mr. Ronca:

GEC initially performed a noise assessment for the above referenced site. The assessment was performed as required by the 2012 DCA Environmental Manual, including the use of the Site DNL Calculator on HUD's website.

The result of the use of this method was combined site noise levels in the areas evaluated that ranged from 71.1 to 74.7dB. These levels would cause the application to lose one (1) point according to the 2012 Qualified Allocation Plan.

The end of the QAP section states: "Not all activities or establishments listed will result in a point deduction depending on the proximity to the property and the impact to the resident population...DCA will determine in its sole and absolute discretion whether or not the undesirable activity will impact the proposed development when completed."

The beginning of the next section, 2. Exceptions to Undesirable Deductions, states: "If the Applicant has knowledge at the time of Application that the conditions that make the property undesirable are temporary and that change or mitigation is imminent (i.e. demolition, rehabilitation, etc.), then sufficient evidence of the change must be submitted in the Application."

Finally, the Noise Assessment Guidelines Chapter 7, The Use of Noise Measurements, states "While it is the preferred procedure to calculate noise levels, there are a few situations where the noise models might not be accurate and it might be better to rely on measurements....Another case might be where you have a unique physical situation that is not accounted for in whatever mathematical model is available."

With the above in mind, and at your request, GEC performed an Onsite Noise Study on June 7 and 8, 2012. The onsite noise study was conducted in accordance with the requirements outlined in the Noise Assessment Guidelines Chapter 7, The Use of Noise Measurements. The results of this assessment of the *actual conditions on the site* were noise levels that range from 53.0 to 62.4 dB and 62.6 DNL for 24 hours. These measurements included railroad traffic at the site on numerous occasions; the measurements indicate the trains had little, if any, effect on the noise readings, which supports our contention that the elevation difference between the railway and the site provided notable mitigation of the railway noise.

The difference between the noise levels as calculated by the Site DNL Calculator and the actual noise levels is significant. We believe the main factor could be that the railroad that exhibits the most influence on the noise calculation, located approximately 371 feet from the nearest point perpendicular to the site, is at a lower elevation than the site. Based on the topographic map of the site, the railroad elevation is approximately 1100 or less while the site is approximately 1110 (field run topography/ground profile) at its nearest point. This existing condition provides an effective natural noise barrier and attenuates the noise level appreciably. Given the above, GEC believes that the notes from the end of section 1 and the beginning of section 2 on page 8 of 31 should be considered. Please accept the attached findings of the Onsite Noise Study as evidence of noise attenuation due to the elevation differences.

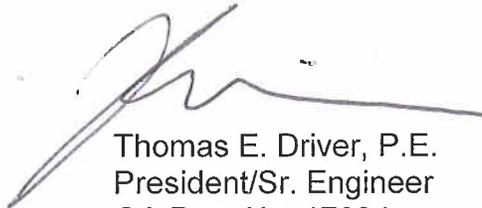
If you have any questions, please do not hesitate to call us.

Sincerely,

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.**



Chris Herrick, CSP  
Industrial Hygiene Specialist  
CSP #18423



Thomas E. Driver, P.E.  
President/Sr. Engineer  
GA Reg. No. 17394

**GEC**



June 13, 2012

**Paul Robinson**  
Vantage Development  
1544 S. Main St.  
Fyffe, AL 35971

RE: The Villas at Stanford  
Kennesaw, GA

Dear Paul,

Noise mitigation measures recommended by the Noise Mitigation Plan dated June 13<sup>th</sup>, 2012 by Geotechnical and Environmental Consultants, Inc. (GEC) will be implemented into the design and construction of The Villas at Stanford in Kennesaw, Georgia. The building will be designed to include the following features per the plan recommendations:

- Continuous acoustical caulking and compressible neoprene weather stripping shall be installed at all door and window openings.
- Tight seals and acoustical caulking shall be installed around all exterior wall penetrations.
- All bathroom and/or kitchen exhaust fans shall have a duct layout that incorporates at least one 90-degree elbow.
- All equipment shall incorporate vibration mounting as appropriate.
- Carpet shall be installed in living room and bedroom spaces.

Required Minimum STC Construction Component Ratings:

- Projected exterior walls will be brick and/or stone in combination with cementitious siding installed over 7/16" OSB, 2x6 wood studs with R-19 Batt insulation. 5/8" thick gypsum board at the interiors. STC rating 45 to 50.
- Vinyl, double glazed windows from All Temp Windows will provide STC ratings from 30 to 39 pending final requirements.
- Roofs will be pitched with asphalt shingles and/or standing seam roofing on an OSB deck with engineered wood trusses and R-38 blow insulation with 5/8" thick gypsum board at the interior. STC rating 41- 45.



Based on the information and recommendations provided in the Noise Mitigation Plan prepared by GEC, it's estimated that the interior noise levels in the interior of the building will fall within the acceptable level of 45 DNL once construction is complete which will included above design features. The owner should contract with a professional acoustical consultant during the building and completion process to ensure that actual nose levels will be within the acceptable level.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Voegtle".

**Michael Voegtle, AIA**  
Managing Principal  
DVA Architecture, LLC

# **GEC**

**GEOTECHNICAL  
&  
ENVIRONMENTAL  
CONSULTANTS, INC**

## **NOISE MITIGATION PLAN**

**PROPOSED VILLAS AT STANFORD  
SARDIS STREET  
KENNESAW, COBB COUNTY, GEORGIA  
GEC JOB #120392.240**

## **PREPARED FOR**

**THE VILLAS AT STANFORD, L.P.  
C/O THE VANTAGE GROUP  
1544 SOUTH MAIN STREET  
FYFFE, ALABAMA 35971  
ATTN: MR. JAY RONCA**

## **PREPARED BY**

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.  
514 HILLCREST INDUSTRIAL BOULEVARD  
MACON, GEORGIA 31204-3472**

## **ISSUE DATE**

**JUNE 12, 2012**

## **NOISE MITIGATION PLAN FOR PROPOSED VILLAS AT STANFORD APARTMENTS**

This Noise Mitigation Plan describes the measures to be implemented at the proposed Villas at Stanford development, on Sardis Road in Kennesaw, Georgia, to reduce the impact of the noise environment upon the residents. This plan is based on findings of the Villas at Stanford Noise Assessment Guidelines (NAG) study completed by Geotechnical & Environmental Consultants, Inc. (GEC), dated June 12, 2012. The NAG study found that all tenant-occupied portions of the property would be exposed to calculated noise levels in excess of the HUD acceptable limit of 65 day-night level (DNL). The principal sources for the predicted levels were identified as roadway noise from South Main Street south of the site, CSX railway southwest of the site, and McCollum Airport south-southeast of the site.

The development comprises one apartment building, and an exterior amenity/Gazebo, as depicted in Figure 1, copied from the GEC NAG study. As shown in Figure 1, the GEC NAG study predicted noise levels at five noise assessment locations (NALs). All site locations are above 65 DNL; though no tenant-occupied site locations are exposed to noise above 75 DNL. For this reason, a noise mitigation plan is required.

### **Scope**

The noise mitigation plan addresses the acoustic environment of the interior residential and gathering spaces and the exterior amenity.

### **Exterior Spaces**

The exterior amenity, Gazebo, is exposed to noise levels above 65 DNL. The attached Site DNL Calculator forms, copied from the GEC NAG study, indicate the calculated noise at the Gazebo is 71.1dB. In order to lower the noise at the Gazebo to 65 DNL or less, noise barriers are required for South Main Street and the railway. The barriers shall ensure there is no (or limited) line-of-sight between the Gazebo and the principal noise sources. Figure 1 includes the proposed barrier configuration for South Main Street noise. The planned barrier is comprised of the apartment building and a 15 foot high wall (or substantial fence) extending 75 feet east-northeast from the northeast corner of the building, as shown on Figure 1, blocking line-of-sight to South Main Street. The wall/fence must be solid, with no cracks or other openings, and as thick as is structurally prudent. Figure 1 further illustrates that angle  $\alpha$  is 180 degrees, or, for the purposes of barrier-effectiveness calculation, equivalent to the wall extending for infinity. South Main Street is proposed as a barrier for the railway noise as it is at a significantly higher elevation than the railway. Such a configuration and combination of noise barriers and components will ensure a calculated value of 65 DNL or less at the Gazebo, located near the northeast end of the apartment building. The worksheets for calculating the barriers performance and the resulting combined Gazebo DNL are attached.

Also attached are Ground Surface Profile drawings which graphically illustrate the elevations of the South Main Street travel lanes, the CSX track, and the apartment building and Gazebo.

**Construction Methods for Interior Noise Reduction**

The development consists of one apartment building. The elevations of buildings with direct line-of-sight to the CSX railway or South Main Street require special construction designs and practices providing a noise level reduction (NLR) of no less than 30dB to achieve a HUD acceptable interior noise level of 45 DNL or below. (NAG assumes 20dB reduction for standard construction and requires a minimum 5dB reduction for DNLs between 65 and 70 and a minimum 10dB reduction for DNLs between 70 and 75 – see attachment.) Wall, window, and door Sound Transmission Class (STC) requirements that will achieve this target NLR are detailed in Table 1, for use by the project architect to select and specify suitable wall, window, and door design detail. The Noise Guidebook states that “*STC is used as a measure of a material’s ability to reduce sound*” and “*the higher the STC value, the greater the sound attenuation and presumably the quieter the structure’s interior*”.

The STC ratings in Table 1 are conservative recommendations intended to provide adequate protection for “typical” room sizes and walls. As design proceeds, the specific floor plans, elevations, wall detail, and window detail should be evaluated against the recommendations in Table 1 to determine their impact on the predicted interior noise levels; such review may determine reduced or increased STC requirements for individual elements. Additionally, the STC recommendations are based on the living rooms and bedrooms being carpeted. If these spaces are hard-floored, then the recommended STC ratings must be increased.

**Table 1**  
**Recommended Wall, Window, and Door STC Ratings to achieve 30 NLR**

NLR	Number of Exterior Walls With Line-of-Sight *	Room Exterior Wall Area With Line-of-Sight* (sq ft)	Recommended STC		
			Wall	Window	Door
30	1	Large (> 170)	40	38	29
30	1	Typical (< 170)	40	32	29
30	2	Large (> 300)	40	38	29
30	2	Typical (< 300)	40	38	29

\* Line-of Sight to South Main Street or the CSX Railway

In addition to the recommended wall, window, and door STC ratings shown above, the following are proposed conservative recommendations – at the building elevations with direct line-of-sight to South Main Street or CSX railway, the principal noise sources – to reduce the sound level at the interior spaces:

- Continuous acoustical caulking and compressible neoprene weather stripping shall be

*Geotechnical & Environmental Consultants, Inc.*  
Noise Mitigation Plan

installed at all door and window openings.

- Tight seals and acoustical caulking shall be installed around all exterior wall penetrations.
- All bathroom and/or kitchen exhaust fans shall duct through the attic or away from the noise source with a duct layout that incorporates at least one 90 degree elbow.
- All equipment shall incorporate vibration mounting as appropriate.
- As the principal noise source is ground level transportation sources, and not airborne aviation sources, no special construction detail is required for roofs or top-level ceilings.

GEC judges this proposed mitigation plan and course of action to be satisfactory to address HUD and DCA noise mitigation requirements under the proposed conditions.

Sincerely,  
Geotechnical & Environmental Consultants, Inc.



Christopher S. Herrick, CSP  
Environmental Specialist/  
Industrial Hygiene



Thomas E. Driver, P.E.  
President/Senior Engineer  
Ga. Reg. #17394

Attachments



## Site DNL Calculator

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- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
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- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	<input type="text" value="311"/>	<input type="text" value="311"/>	<input type="text" value="311"/>
Distance to Stop Sign	<input type="text"/>	<input type="text"/>	<input type="text"/>
Average Speed	<input type="text" value="35"/>	<input type="text" value="35"/>	<input type="text" value="35"/>
Average Daily Trips (ADT)	<input type="text" value="16517"/>	<input type="text" value="718"/>	<input type="text" value="718"/>
Night Fraction of ADT	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="text" value="15"/>

Site DNL Calculator - Environment and Energy - CPD - HUD

Road Gradient (%)			4
<b>Vehicle DNL</b>	54.5799	50.9619	61.98
Calculate Road #1 DNL	63.0229	Reset	

Railroad #1 Track Identifier: CSX (Crossing Inventory 340408K)

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		659
Average Train Speed		35
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		25
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
<b>Train DNL</b>		68.9694
Calculate Rail #1 DNL	68.9694	Reset

Railroad #2 Track Identifier: CSX (Crossing Inventory 340406W)

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance		1353
Average Train Speed		10
Engines per Train		2
Railway cars per Train		70
Average Train Operations (ATO)		6
Night Fraction of ATO		50
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
<b>Train DNL</b>		63.526
Calculate Rail #2 DNL	63.526	Reset

Add Road Source      Add Rail Source

Airport Noise Level 57.2

Loud Impulse Sounds?  Yes  No

Combined DNL for all Road and Rail sources 70.8691

Combined DNL including Airport 71.0856

Site DNL with Loud Impulse Sound



# RAILWAY

## Workchart 5 Noise Barrier

To find, R, D, and h from Site Elevations and Distances

Enter the values for:

H=	1114	R=	275
S=	1106	D=	305
O=	1105		

Fill out the following worksheet (all quantities are in feet):

1. Elevation of barrier top minus elevation of source	[ <sup>1</sup>	1114	] - [ <sup>5</sup>	1106	] = [ <sup>1</sup>	8	]
2. Elevation of observer minus elevation of source	[ <sup>0</sup>	1105	] - [ <sup>5</sup>	1106	] = [ <sup>2</sup>	-1	]
3. Map distance between source and observer (R' + D')					= [ <sup>3</sup>	580	]
4. Map distance between barrier and source (R')					= [ <sup>4</sup>	275	]
5. Line 2 divided by line 3	[ <sup>2</sup>	-1	] / [ <sup>3</sup>	580	] = [ <sup>5</sup>	-0.001724138	]
6. Square the quantity on line 5 (i.e., multiply it by itself); always positive	[ <sup>5</sup>	-0.001724138	] x [ <sup>5</sup>	-0.001724138	] = [ <sup>6</sup>	2.97265E-06	]
7. 40% of line 6	[	0.4	] x [ <sup>6</sup>	2.97265E-06	] = [ <sup>7</sup>	1.18906E-06	]
8. One minus line 7	[	1	] - [ <sup>7</sup>	1.18906E-06	] = [ <sup>8</sup>	0.999998811	]
9. Line 5 times line 4 (will be negative if line 2 is negative)	[ <sup>5</sup>	-0.001724138	] x [ <sup>4</sup>	275	] = [ <sup>9</sup>	-0.474137931	]
10. Line 1 minus line 9	[ <sup>1</sup>	8	] - [ <sup>9</sup>	-0.474137931	] = [ <sup>10</sup>	8.474137931	]
11. Line 10 times line 8	[ <sup>10</sup>	8.474137931	] x [ <sup>8</sup>	0.999998811	] = [ <sup>11</sup>	8.5	] = h
12. Line 5 times line 10	[ <sup>5</sup>	-0.001724138	] x [ <sup>10</sup>	8.474137931	] = [ <sup>12</sup>	-0.014610583	]
13. Line 4 divided by line 8	[ <sup>4</sup>	275	] / [ <sup>8</sup>	0.999998811	] = [ <sup>13</sup>	275	]
14. Line 13 plus line 12	[ <sup>13</sup>	275	] + [ <sup>12</sup>	-0.014610583	] = [ <sup>14</sup>	275	] = R
15. Line 3 minus line 4	[ <sup>3</sup>	580	] - [ <sup>4</sup>	275	] = [ <sup>15</sup>	305	]
16. Line 15 divided by line 8	[ <sup>15</sup>	305	] / [ <sup>8</sup>	0.999998811	] = [ <sup>16</sup>	305	]
17. Line 16 minus line 12	[ <sup>16</sup>	305	] - [ <sup>12</sup>	-0.014610583	] = [ <sup>17</sup>	305	] = D

[Note: the value on line 2 may be negative, in which case so will the values on lines 5, 9, and 12; line 1 may also be negative. Remember, then, in

lines 10, 14, and 17, that adding a negative number is the same as subtracting:  
 $x + (-y) = x - y$ . And subtracting a negative number is like adding:  $x - (-y) = x + y$ .

Round off R and D to the nearest integer, h to one decimal place.

$$\begin{array}{r} 61.3 \text{ (RAILWAY)} \\ - 8.8 \text{ (BARRIER REDUCTION)} \\ \hline 61.3 \text{ NET DNL} \end{array}$$

$$\begin{array}{r} 61.3 \text{ (RAILWAY)} \\ - 56.5 \text{ (ROAD)} \\ \hline 4.8 = \text{ADD } 1.2 \text{ TO HIGHER} \end{array}$$

$$\begin{array}{r} 61.3 \\ + 1.2 \\ \hline 62.5 \end{array}$$

$$\begin{array}{r} 62.5 \\ - 57.2 \text{ (AIR)} \\ \hline 5.3 = \text{ADD } 1.2 \text{ TO HIGHER} \end{array}$$

$$\begin{array}{r} 62.5 \\ + 1.2 \\ \hline 63.7 \text{ DNL COMBINED FROM ALL SOURCES} \end{array}$$

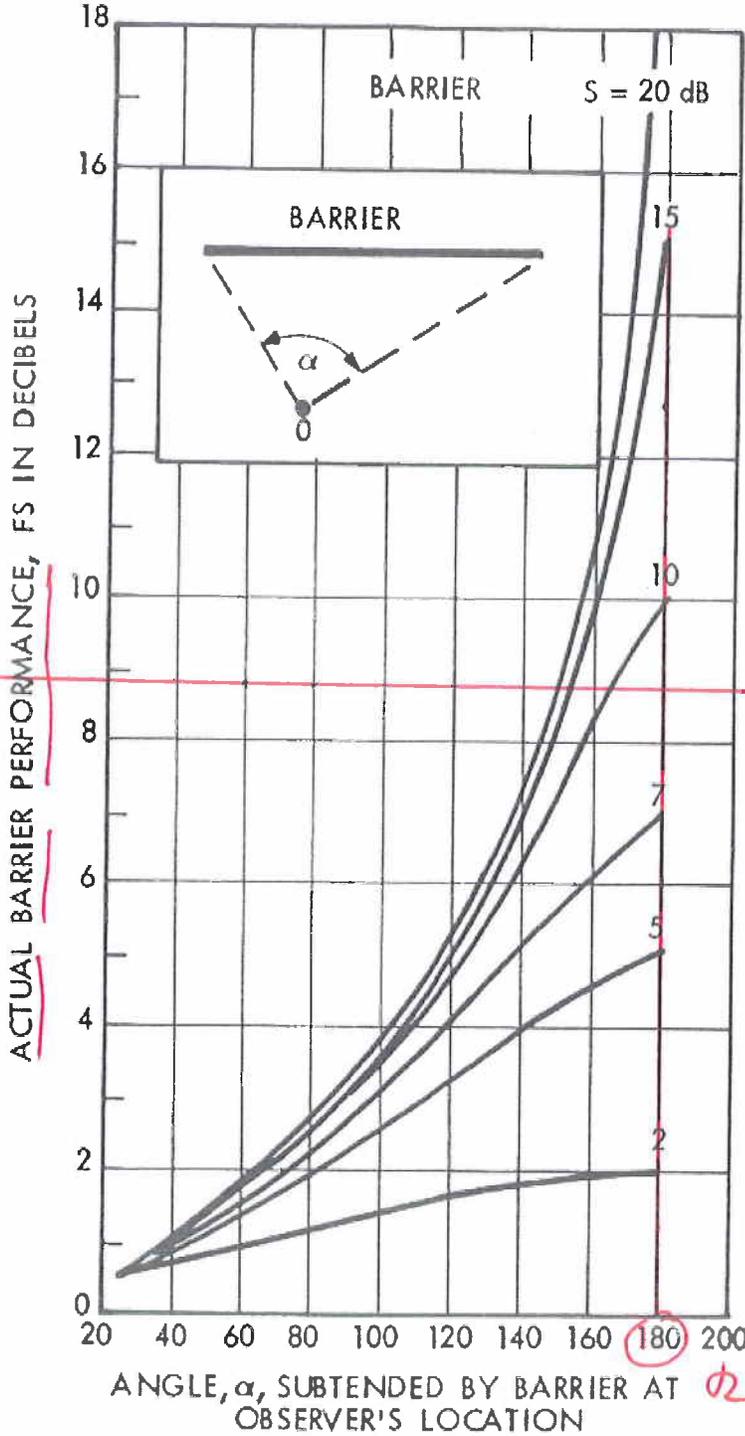


# RAILWAY

Workchart 7

FS

(dB)



FS  
8.8 dB

8.8 dB BARRIER  
POTENTIAL

$\alpha = 180$

Correction to be applied to barrier potential in order to find the actual performance of the barrier of the same construction but of finite length.



# ROAD

## Workchart 5 Noise Barrier

To find, R, D, and h from Site Elevations and Distances

Enter the values for:

H=	<b>1115</b>	R=	<b>115</b>
S=	<b>1122</b>	D=	<b>90</b>
O=	<b>1105</b>		

Fill out the following worksheet (all quantities are in feet):

1. Elevation of barrier top minus elevation of source	[ <sup>1</sup>	<b>1115</b>	] - [ <sup>5</sup>	<b>1122</b>	] = [ <sup>1</sup>	<b>-7</b>	]
2. Elevation of observer minus elevation of source	[ <sup>0</sup>	<b>1105</b>	] - [ <sup>5</sup>	<b>1122</b>	] = [ <sup>2</sup>	<b>-17</b>	]
3. Map distance between source and observer (R' + D')					= [ <sup>3</sup>	<b>205</b>	]
4. Map distance between barrier and source (R')					= [ <sup>4</sup>	<b>115</b>	]
5. Line 2 divided by line 3	[ <sup>2</sup>	<b>-17</b>	] / [ <sup>3</sup>	<b>205</b>	] = [ <sup>5</sup>	<b>-0.082926829</b>	]
6. Square the quantity on line 5 (i.e., multiply it by itself); always positive	[ <sup>5</sup>	<b>-0.082926829</b>	] x [ <sup>5</sup>	<b>-0.082926829</b>	] = [ <sup>6</sup>	<b>0.006876859</b>	]
7. 40% of line 6	[	<b>0.4</b>	] x [ <sup>6</sup>	<b>0.006876859</b>	] = [ <sup>7</sup>	<b>0.002750744</b>	]
8. One minus line 7	[	<b>1</b>	] - [ <sup>7</sup>	<b>0.002750744</b>	] = [ <sup>8</sup>	<b>0.997249256</b>	]
9. Line 5 times line 4 (will be negative if line 2 is negative)	[ <sup>5</sup>	<b>-0.082926829</b>	] x [ <sup>4</sup>	<b>115</b>	] = [ <sup>9</sup>	<b>-9.536585366</b>	]
10. Line 1 minus line 9	[ <sup>1</sup>	<b>-7</b>	] - [ <sup>9</sup>	<b>-9.536585366</b>	] = [ <sup>10</sup>	<b>2.536585366</b>	]
11. Line 10 times line 8	[ <sup>10</sup>	<b>2.536585366</b>	] x [ <sup>8</sup>	<b>0.997249256</b>	] = [ <sup>11</sup>	<b>2.5</b>	] = h
12. Line 5 times line 10	[ <sup>5</sup>	<b>-0.082926829</b>	] x [ <sup>10</sup>	<b>2.536585366</b>	] = [ <sup>12</sup>	<b>-0.210350982</b>	]
13. Line 4 divided by line 8	[ <sup>4</sup>	<b>115</b>	] / [ <sup>8</sup>	<b>0.997249256</b>	] = [ <sup>13</sup>	<b>115</b>	]
14. Line 13 plus line 12	[ <sup>13</sup>	<b>115</b>	] + [ <sup>12</sup>	<b>-0.210350982</b>	] = [ <sup>14</sup>	<b>115</b>	] = R
15. Line 3 minus line 4	[ <sup>3</sup>	<b>205</b>	] - [ <sup>4</sup>	<b>115</b>	] = [ <sup>15</sup>	<b>90</b>	]
16. Line 15 divided by line 8	[ <sup>15</sup>	<b>90</b>	] / [ <sup>8</sup>	<b>0.997249256</b>	] = [ <sup>16</sup>	<b>90</b>	]
17. Line 16 minus line 12	[ <sup>16</sup>	<b>90</b>	] - [ <sup>12</sup>	<b>-0.210350982</b>	] = [ <sup>17</sup>	<b>90</b>	] = D

[Note: the value on line 2 may be negative, in which case so will the values on lines 5, 9, and 12; line 1 may also be negative. Remember, then, in

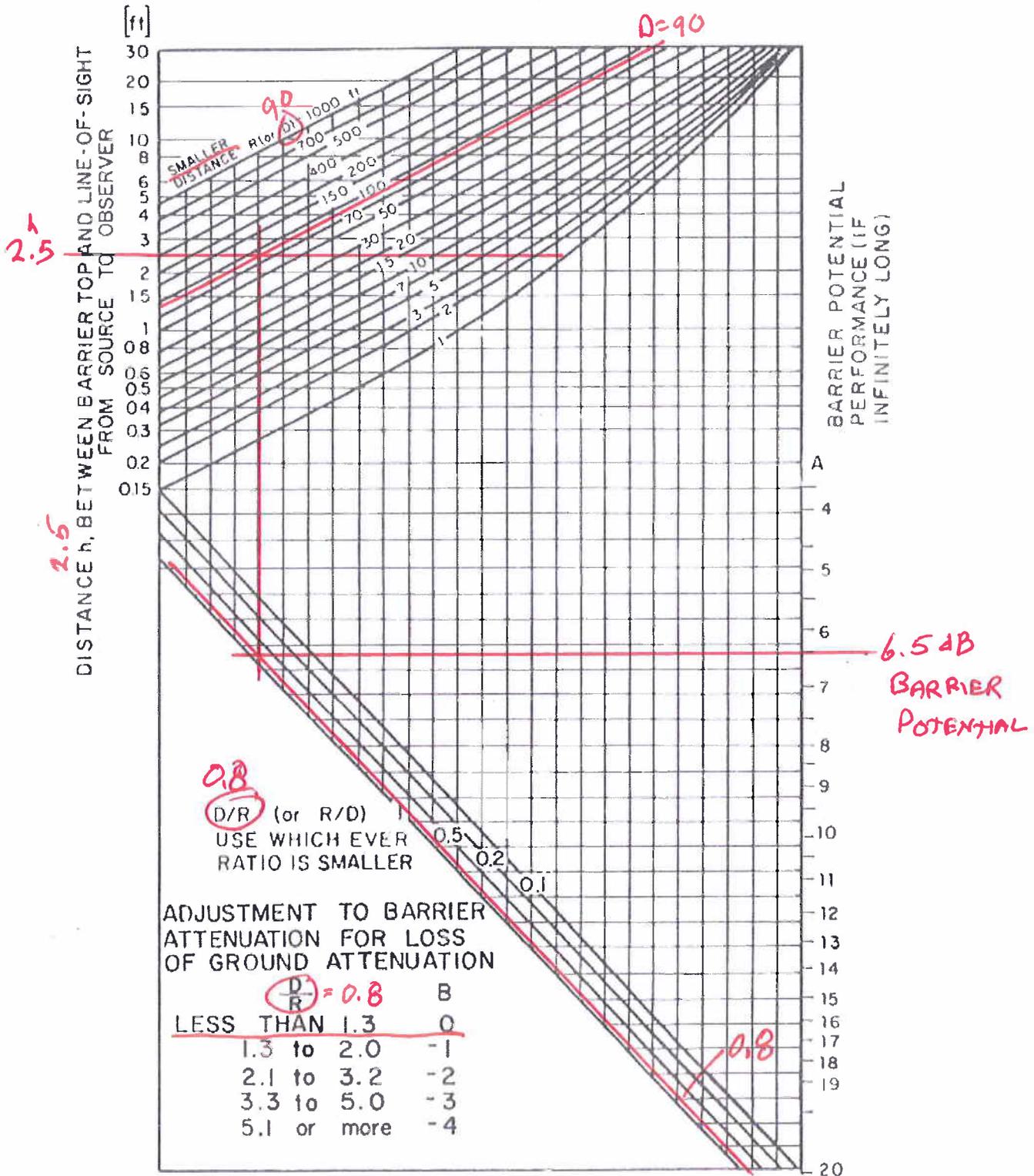
lines 10, 14, and 17, that adding a negative number is the same as subtracting:  
 $x + (-y) = x - y$ . And subtracting a negative number is like adding:  $x - (-y) = x + y$ .

Round off R and D to the nearest integer, h to one decimal place.

GAZEBO/NAL 4 = 63.0 ROAD  
 -6.5 BARRIER REDUCTION  
 56.5 NET DNL

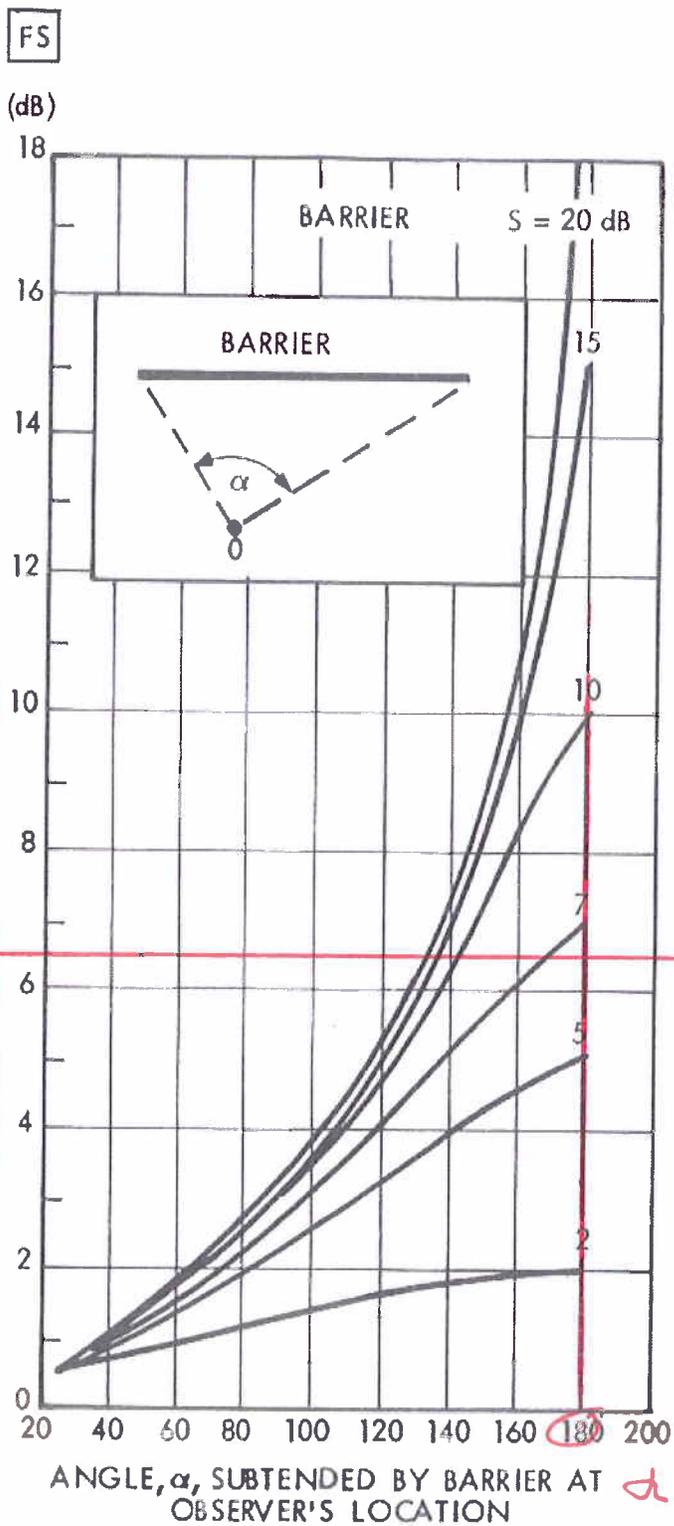
Road

Workchart 6  
Noise Barrier



# ROAD

Workchart 7



FS  
6.5 dB

6.5 dB  
BARRIER  
POTENTIAL

$\alpha = 180$

Correction to be applied to barrier potential in order to find the actual performance of the barrier of the same construction but of finite length.

## Windows

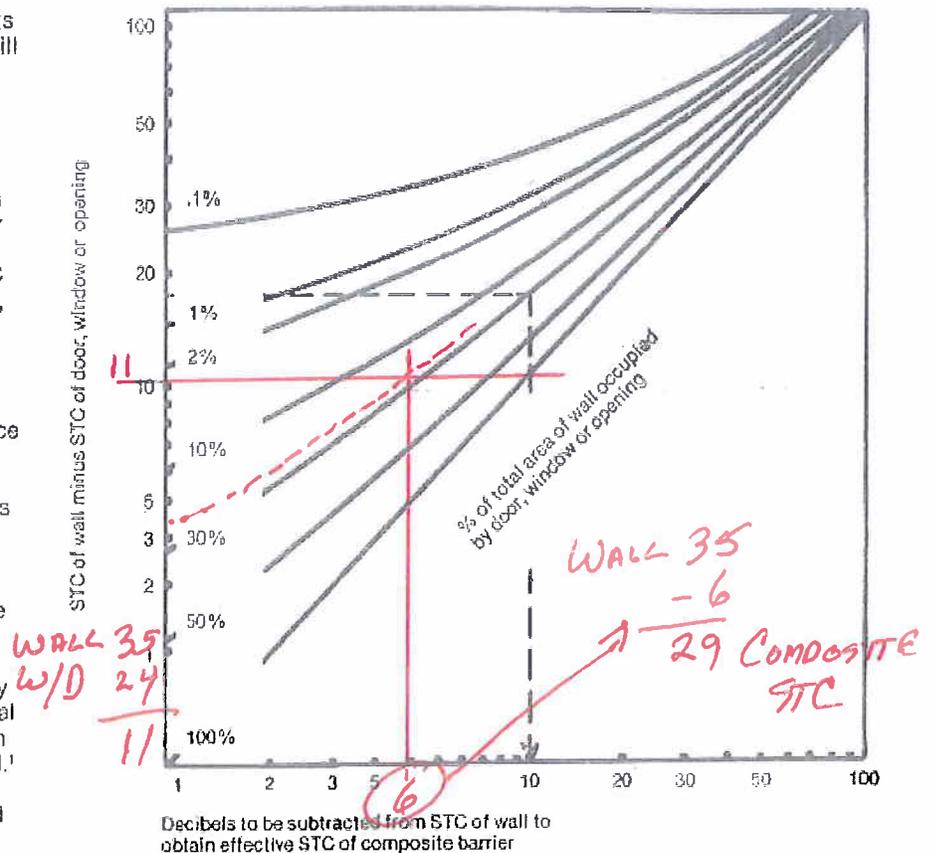
Sound enters a building through its acoustically weakest points, and windows are one of the weakest parts of a wall. An open or weak window will severely negate the effect of a very strong wall. Whenever windows are going to be a part of the building design, they should be given acoustical consideration. Figure 17 illustrates the effects of windows on the sound transmission of walls. For example, if a wall with an STC rating of 45 contains a window with an STC rating of 26 covering 30% of its area, the overall STC of the composite partition will be 35, a reduction of 10 dB.

The following is a discussion of techniques that can be used to reduce noise in a building by means of its windows. These techniques range from a blocking of the principal paths of noise entry to a blocking of the most indirect paths.

**Close windows.** The first step in reducing unwanted sound is to close and seal the windows. The greatest amount of sound insulation can be achieved if windows are permanently sealed. However, openable acoustical windows have been developed which are fairly effective in reducing sound.<sup>1</sup> Whether or not the sealing is permanent, keeping windows closed necessitates the installation of mechanical ventilation systems. If you are dealing with single family houses and some of the windows are facing away from all noise sources, a whole house fan may be better and cheaper than air conditioning. In multifamily housing or where all windows are exposed to the noise sources you will have to go with the air conditioning. If windows must be openable, special seals are available which allow windows to be opened.<sup>2</sup>

**Reduce window size.** The smaller the windows, the greater the transmission loss of the total partition of which the window is a part. Reducing the window size is a technique that is used because (a) it precludes the cost of expensive acoustical windows, and (b) it saves money by cutting down the use of glass. The problems with this technique are (a) it is not very effective in reducing noise; e.g., reducing the proportion of window to wall size from 50% to 20% reduces noise by only 3 decibels; and (b) many building codes require a minimum window to wall size ratio.

Figure 17  
STC



### Instructions on use of graph

1. Subtract the STC value of the door, window or opening from the STC value of the wall.
2. Enter the vertical axis of the graph at the point that matches the value from step 1.
3. Read across to the curve that represents the percentage of the total area of the wall that is taken up by the door, window, or opening.
4. Read down to the horizontal axis.
5. Subtract the value on the horizontal axis from the original STC value of the wall. The result is the composite STC value of the wall and the door, window or opening.

**Increase glass thickness.** If ordinary windows are insufficient in reducing noise impacts in spite of sealing techniques, then thicker glass can be installed. In addition, this glass can be laminated with a tough transparent plastic which is both noise and shatter resistant. Glass reduces noise by the mass principle; that is, the thicker the glass, the more noise resistant it will be. A 1/2-inch thick glass has a maximum STC rating of 35 dB compared to a 25 dB rating for ordinary 3/16 inch glass.

<sup>1</sup>U.S. Department of Housing and Urban Development, A Study of Techniques to Increase the Sound Insulation of Building Elements, Report No. WR 73-5, Washington, D.C., June 1973.

<sup>2</sup>Los Angeles Department of Airports, Guide to the Soundproofing of Existing Homes Against Exterior Noise, Report No. WRC 70-2, March 1970, pp. 9-11, 22-30. In this report, the function and performance of a number of operable seals are described.

24 COMPOSITE STC  
- 3 TRANSPORTATION NOISE REDUCTION  
26 EFFECTIVE STC

Amthel S/Kud 6/12/2012

**§51.104 Special requirements.**

(a) *Noise attenuation.* Noise attenuation measures are those required in addition to attenuation provided by buildings as commonly constructed in the area, and requiring open windows for ventilation. Measures that reduce external noise at a site shall be used wherever practicable in preference to the incorporation of additional noise attenuation in buildings. Building designs and construction techniques that provide more noise attenuation than typical construction may be employed also to meet the noise attenuation requirements.

(1) *Normally Unacceptable noise zone.* Approvals in this zone require a minimum of 5 decibels additional sound attenuation for buildings having noise-sensitive uses if the day-night average sound level is greater than 65 decibels but does not exceed 70 decibels, or a minimum of 10 decibels of additional sound attenuation if the day-night average sound level is greater than 70 decibels but does not exceed 75 decibels.

(2) *Unacceptable noise zone.* Noise attenuation measures require the approval of the Assistant Secretary for Community Planning and Development (See §51.104(b)(2).)

(b) *Special Approvals and Environmental Review Requirements.* Environmental clearances shall be conducted pursuant to the requirements of HUD's Departmental Policies, Responsibilities and Procedures for Protection and Enhancement of Environmental Quality (38 FR 19182 as amended) or other environmental regulations which may be issued by the Department. The Special Clearance and Environmental Impact Statement (EIS) threshold requirements are hereby modified for all projects proposed in the Normally Unacceptable and Unacceptable noise exposure zones as follows:

(1) *Normally Unacceptable noise zone.* (i) All projects located in the Normally Unacceptable Noise Zone require a Special Environmental Clearance except an EIS is required for a proposed project located in a largely undeveloped area, or where the HUD action is likely to encourage the establishment of incompatible land use in this noise zone.

---

Berms and barriers are our first choice because they provide protection for yards, playgrounds, etc. Since outdoor activity is often very important to residents we want to protect the outdoor areas as much as possible.

By definition a barrier must be separate from the building or area it is providing attenuation for. After all barriers are preferred because they improve exterior as well as interior levels. Non-noise sensitive buildings can, however, be used as barriers for noise sensitive buildings or exterior areas.

---

Assumption is that standard construction provides an average of 20 L<sub>dn</sub> attenuation. At 65 L<sub>dn</sub> or below this amount of attenuation would be sufficient to meet interior level of 45 L<sub>dn</sub>. Additional requirements are designed to meet this goal even when exterior noise levels are higher.

---

Substitute Environmental Assessment (with ECO concurrence) wherever you see Special Clearance.

**APPENDIX G:**  
**Regulatory Search Information**



# Facility Registry System (FRS)

You are here: [EPA Home](#) | [Envirofacts](#) | [FRS](#) | [Report](#)

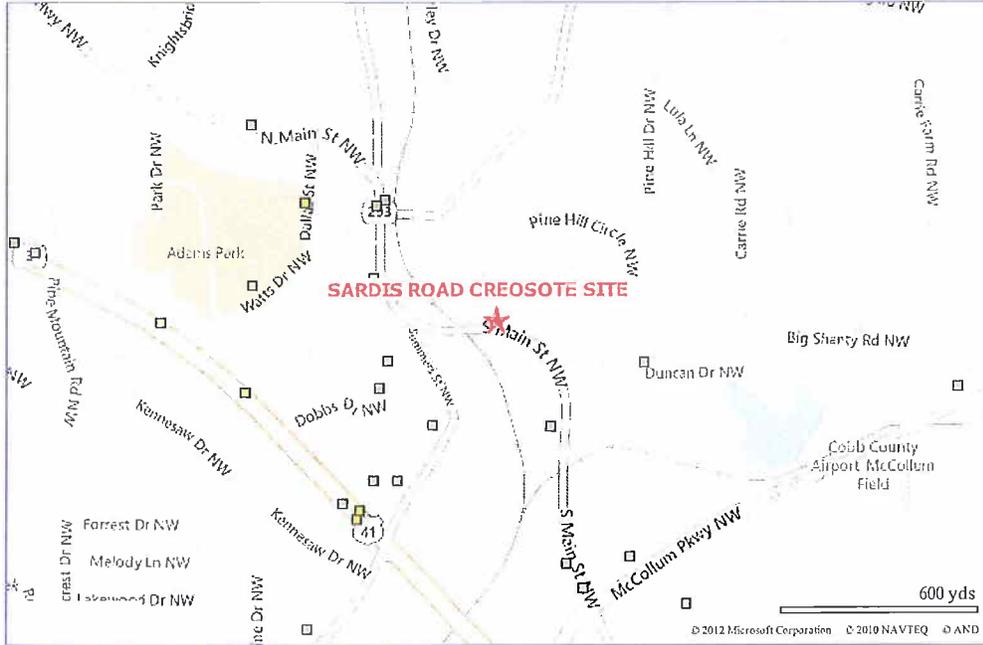


## Facility Detail Report



### SARDIS ROAD CREOSOTE SITE

SARDIS ROAD  
KENNESAW, GA 301442812  
EPA Registry Id: 110009276568



#### Legend

- ★ Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

#### Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM	GA0001878719	SUPERFUND	CERCLIS		

Additional EPA Reports: [MyEnvironment](#) | [Site Demographics](#) | [Watershed Report](#)

#### Standard Industrial Classification Codes (SIC)

No SIC Codes returned.

#### National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

#### Facility Codes and Flags

EPA Region:	04
Duns Number:	
Congressional District Number:	11
Legislative District Number:	
HUC Code/Watershed:	03150104 / ETOWAH
US Mexico Border Indicator:	NO
Federal Facility:	
Tribal Land:	NO

#### Alternative Names

No Alternative Names returned.

#### Organizations

No Organizations returned.

#### Facility Mailing Addresses

No Facility Mailing Addresses returned.

#### Contacts

Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
RPM/SAM COMBO	DEREK MATORY	4045628800	CERCLIS	
NO TYPE ASSIGNED	MIKE NORMAN	4045628792	CERCLIS	
SITE ASSESSMENT MANAGER (SAM)	WILLIAM JOYNER	4045628795	CERCLIS	
NO TYPE ASSIGNED	BARBARA ALFANO	4045628923	CERCLIS	
NO TYPE ASSIGNED	RALPH HOWARD	4045628829	CERCLIS	
RPM/SAM COMBO	RANDALL CHAFFINS	4045628910	CERCLIS	
REGIONAL MANAGER	CAROL MONELL	4045628719	CERCLIS	

Query executed on: JUN-12-2012

Additional information for CERCLIS or TRI sites:

**The Villas At Stanford**

Sardis Street, NW

Kennesaw, GA 30144

Inquiry Number: 3330087.2s

May 24, 2012

**The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	7
Orphan Summary .....	34
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting SSURGO Soil Map .....	A-5
Physical Setting Source Map .....	A-15
Physical Setting Source Map Findings .....	A-17
Physical Setting Source Records Searched .....	A-19

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

SARDIS STREET, NW  
KENNESAW, GA 30144

#### COORDINATES

Latitude (North): 34.0212000 - 34° 1' 16.32"  
Longitude (West): 84.6112000 - 84° 36' 40.32"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 720574.8  
UTM Y (Meters): 3766885.8  
Elevation: 1104 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 34084-A5 KENNESAW, GA  
Most Recent Revision: 1992  
  
West Map: 34084-A6 ACWORTH, GA  
Most Recent Revision: 1992

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### *Federal NPL site list*

NPL..... National Priority List

## EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS..... Hazardous Site Inventory

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Solid Waste Disposal Facilities

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### ***State and tribal institutional control / engineering control registries***

INST CONTROL..... Public Record List  
AUL..... Uniform Environmental Covenants

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

## EXECUTIVE SUMMARY

VIC..... Voluntary Cleanup Program site

### **State and tribal Brownfields sites**

BROWNFIELDS..... Brownfields Public Record List

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

HIST LF..... Historical Landfills

#### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs

DEL SHWS..... Delisted Hazardous Site Inventory Listing

US HIST CDL..... National Clandestine Laboratory Register

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Spills Information

#### **Other Ascertainable Records**

DOT OPS..... Incident and Accident Data

DOD..... Department of Defense Sites

FUDS..... Formerly Used Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

MINES..... Mines Master Index File

TRIS..... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS..... Integrated Compliance Information System

PADS..... PCB Activity Database System

MLTS..... Material Licensing Tracking System

RADINFO..... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System

## EXECUTIVE SUMMARY

RAATS.....	RCRA Administrative Action Tracking System
NPDES.....	NPDES Wastewater Permit List
DRYCLEANERS.....	Drycleaner Database
AIRS.....	Permitted Facility and Emissions Listing
TIER 2.....	Tier 2 Data Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
COAL ASH DOE.....	Steam-Electric Plan Operation Data
COAL ASH.....	Coal Ash Disposal Site Listing
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations.....	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### *Federal CERCLIS list*

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 12/27/2011 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>SARDIS ROAD CREOSOTE SITE</i>	<i>SARDIS ROAD</i>	<i>NNW 0 - 1/8 (0.118 mi.)</i>	<i>2</i>	<i>10</i>

## EXECUTIVE SUMMARY

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 08/19/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GA AIR NATL GUARD - 129 ACS	1901 MCCOLLUM PKWY	SE 1/2 - 1 (0.505 mi.)	12	31

### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TUG TECHNOLOGIES CORPORATION	2652 S MAIN ST NORTH	SSE 1/8 - 1/4 (0.166 mi.)	3	12

### ***State- and tribal - equivalent CERCLIS***

GA NON-HSI: Georgia Non Hazardous Site Inventory Sites.

A review of the GA NON-HSI list, as provided by EDR, and dated 04/01/2012 has revealed that there is 1 GA NON-HSI site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AERO ENGINES	2439 MCCOLLUM PKWY.	ESE 1/2 - 1 (0.635 mi.)	13	33

### ***State and tribal leaking storage tank lists***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resources' Confirmed Release List.

A review of the LUST list, as provided by EDR, and dated 01/11/2012 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GENERAL STORE	2742 S MAIN ST	WSW 0 - 1/8 (0.083 mi.)	1	7
BIG SHANTY SUPERETTE #8	2778 SOUTH MAIN ST	W 1/8 - 1/4 (0.206 mi.)	A5	19

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KENNESAW TEXACO	2820 SOUTH MAIN ST	WNW 1/8 - 1/4 (0.234 mi.)	7	22
C W TIRE INC	2907/2911 N MAIN ST	NW 1/4 - 1/2 (0.355 mi.)	9	27
KENNESAW POLICE DEPT	2539 J O STEPHENSON AVE	WNW 1/4 - 1/2 (0.366 mi.)	10	30

### **State and tribal registered storage tank lists**

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Natural Resources' Underground Storage Tank Database.

A review of the UST list, as provided by EDR, and dated 03/08/2012 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GENERAL STORE	2742 S MAIN ST	WSW 0 - 1/8 (0.083 mi.)	1	7
BIG SHANTY SUPERETTE #8	2778 SOUTH MAIN ST	W 1/8 - 1/4 (0.206 mi.)	A4	17
KENNESAW TEXACO	2820 SOUTH MAIN ST	WNW 1/8 - 1/4 (0.234 mi.)	7	22

AST: A listing of LP gas tank site locations.

A review of the AST list, as provided by EDR, and dated 03/06/2012 has revealed that there is 1 AST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FINA	2650 COBB PARKWAY NW	WSW 1/4 - 1/2 (0.495 mi.)	11	31

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

SWRCY: A listing of recycling facility locations.

A review of the SWRCY list, as provided by EDR, and dated 03/14/2012 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COMPLETE P.C. RECYCLING	2641A KENNESAW DUE WESTSSW	1/4 - 1/2 (0.354 mi.)	8	26

#### **Other Ascertainable Records**

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA)

# EXECUTIVE SUMMARY

of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

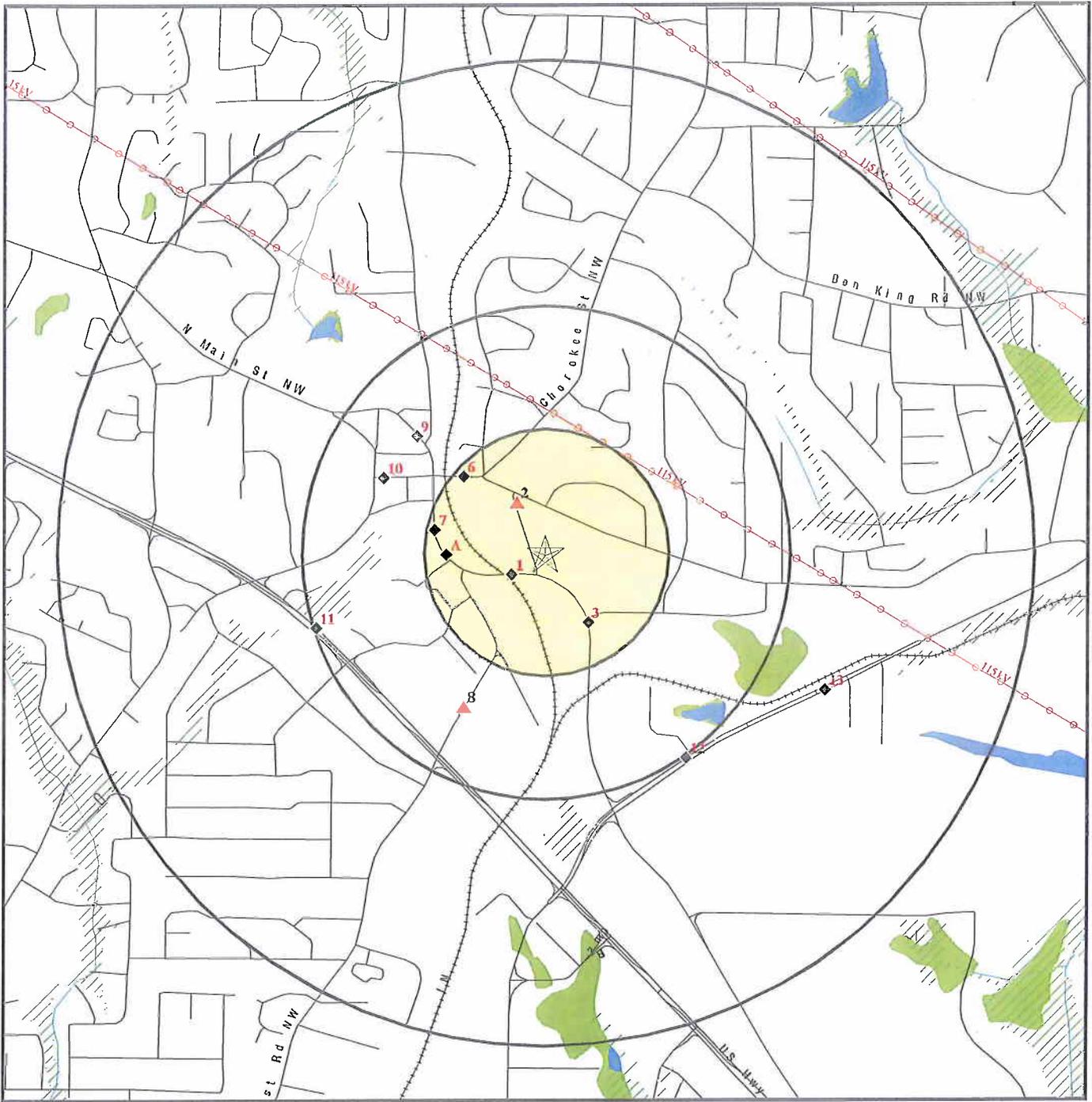
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>KENNESAW CIVIL WAR MUSEUM</i>	<i>2829 CHEROKEE ST</i>	<i>NW 1/8 - 1/4 (0.231 mi.)</i>	<i>6</i>	<i>20</i>

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
SARDIS ROAD CREOSOTE SITE COBB COUNTY NORTHWEST WRF	DEL SHWS FINDS, LUST, UST, TIER 2, FINANCIAL ASSURANCE
CHEVRON #40012	FINDS, LUST, UST, FINANCIAL ASSURANCE
DAMANIS FOOD & FUEL INC	FINDS, LUST, UST, FINANCIAL ASSURANCE
CIRCLE K	FINDS, LUST, UST, FINANCIAL ASSURANCE
CITGO OF ACWORTH	UST, FINANCIAL ASSURANCE
HTC GROUP LLC SITE	INST CONTROL, BROWNFIELDS
HIGHWAY 41 FLEA MARKET, INC. US41 I	SWF/LF
CONSOLIDATED ENVIRONMENTAL SERVICE	SWF/LF
FLOW MOLE BELLS FERRY ROAD INERT L	SWF/LF
R & M TRUCKING BELLS FERRY ROAD IN	SWF/LF
RYLAND HOMES INERT LANDFILL	SWF/LF
RYLAND HOMES INERT LANDFILL	SWF/LF
DANIEL WINE DBA WINE'S CONVENIENCE	AST
ATLANTA NORTH KOA	AST
MORROW EQUIPMENT	RCRA-NonGen, FINDS
CONCRETE COATINGS	RCRA-NonGen, FINDS
ELECTRO PAINTERS INC	RCRA-NonGen, FINDS
VULCAN MATERIALS CO.	MINES
HOME DEPOT STORE NO 1752	MANIFEST

# OVERVIEW MAP - 3330087.2s



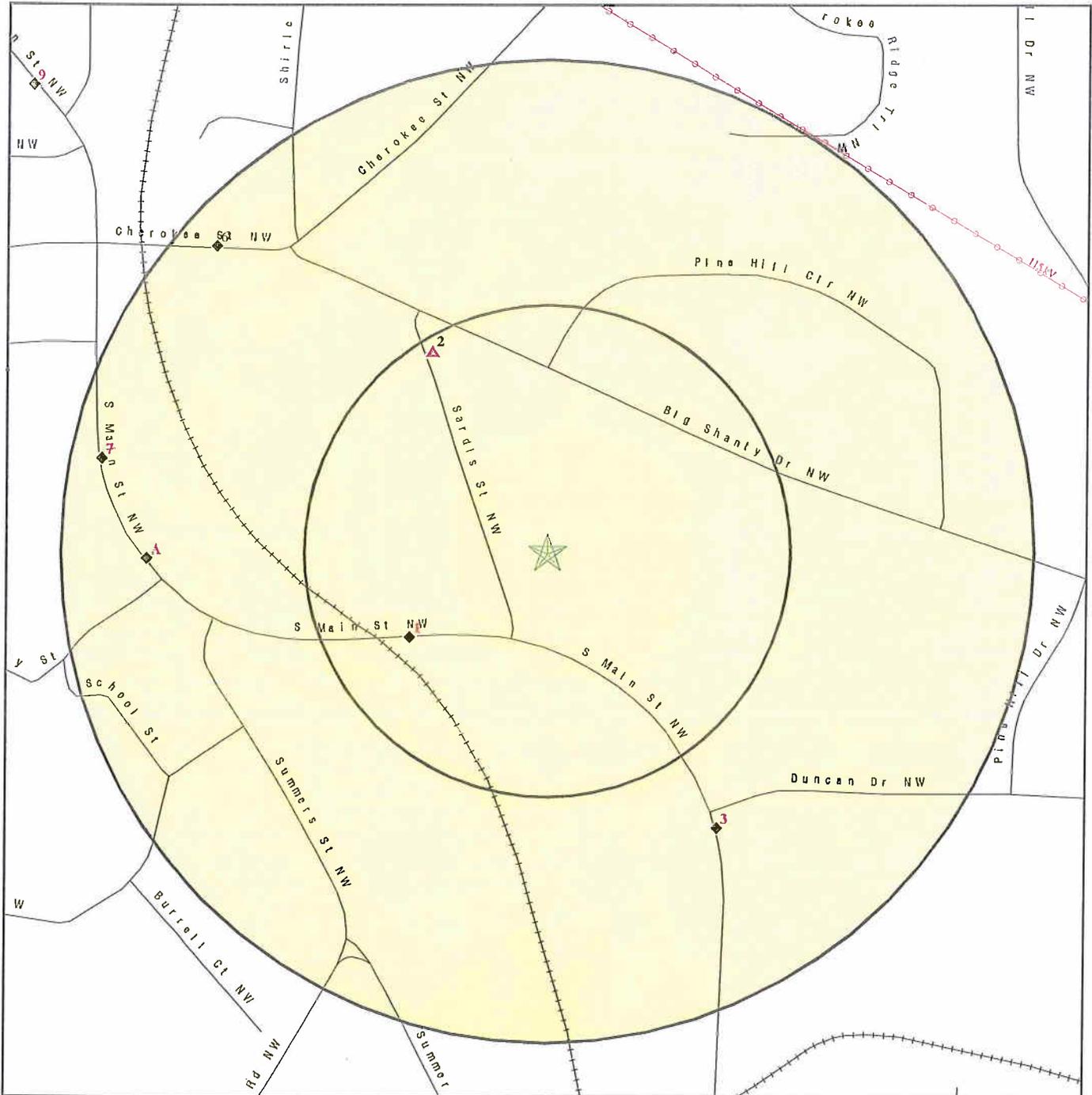
- \* Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Manufactured Gas Plants
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites
- ☒ Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

**SITE NAME:** The Villas At Stanford  
**ADDRESS:** Sardis Street, NW  
 Kennesaw GA 30144  
**LAT/LONG:** 34.0212 / 84.6112

**CLIENT:** Geotechnical & Env'tl. Cons.  
**CONTACT:** Greta Woods  
**INQUIRY #:** 3330087.2s  
**DATE:** May 24, 2012 1:05 pm

# DETAIL MAP - 3330087.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p><b>SITE NAME:</b> The Villas At Stanford  <b>ADDRESS:</b> Sardis Street, NW          Kennesaw GA 30144  <b>LAT/LONG:</b> 34.0212 / 84.6112</p>	<p><b>CLIENT:</b> Geotechnical &amp; Envtl. Cons.  <b>CONTACT:</b> Greta Woods  <b>INQUIRY #:</b> 3330087.2s  <b>DATE:</b> May 24, 2012 1:09 pm</p>
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		1	0	0	NR	NR	1
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	1	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
GA NON-HSI	1.000		0	0	0	1	NR	1
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		1	2	2	NR	NR	5
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST	0.250		1	2	NR	NR	NR	3

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.500		0	0	1	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
INST CONTROL	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VIC	0.500		0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	1	NR	NR	1
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA-NonGen	0.250		0	1	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
EDR Historical Auto Stations	0.250		0	0	NR	NR	NR	0
EDR Historical Cleaners	0.250		0	0	NR	NR	NR	0

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

1  
WSW  
< 1/8  
0.083 mi.  
440 ft.

GENERAL STORE  
2742 S MAIN ST  
KENNESAW, GA 30152

LUST 1006779420  
UST N/A  
FINANCIAL ASSURANCE

Relative:  
Lower

LUST:  
Facility ID: 09000423  
Leak ID: 1  
Description: Confirmed Release Received  
Cleanup Status: NFA - Remediation  
Date Received: 09/09/1993  
Project Officer: Coughlan, Michael F

Actual:  
1101 ft.

Facility ID: 09000423  
Leak ID: 1  
Description: Suspected Release Received  
Cleanup Status: NFA - Remediation  
Date Received: 11/09/1989  
Project Officer: Coughlan, Michael F

Facility:

Facility Id: 9000423  
Facility Status: Closed  
Facility Type: Gas Station  
District: PIRT 7  
Contact Id: 7204  
Owner Name: J E POORE  
Owner Address: 1471 WOOD PARK WY  
Owner City: KENNESAW  
Owner State: GA  
Owner Zip: 30144  
Owner City,St,Zip: KENNESAW, GA 30144  
Owner Telephone: 770-429-8187

Tanks:

Facility ID: 9000423  
Tank ID: 1  
Status Date: 08/01/1988  
Status: **Cathodically Prot**  
Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 1  
Status Date: 08/24/1988  
Status: **Installed**  
Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

EDR ID Number  
EPA ID Number  
Database(s)

GENERAL STORE (Continued)

1006779420

Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 1  
Status Date: 03/01/1999  
**Status: Removed From Ground**  
Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 2  
Status Date: 08/01/1988  
**Status: Cathodically Prot**  
Product1: Diesel  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 2  
Status Date: 08/24/1988  
**Status: Installed**  
Product1: Diesel  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 2  
Status Date: 03/01/1999  
**Status: Removed From Ground**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

GENERAL STORE (Continued)

1006779420

Product1: Diesel  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 3  
Status Date: 08/01/1988  
**Status: Cathodically Prot**  
Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 3  
Status Date: 08/24/1988  
**Status: Installed**  
Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Facility ID: 9000423  
Tank ID: 3  
Status Date: 03/01/1999  
**Status: Removed From Ground**  
Product1: Gas  
Material: Steel-Galvanic  
Capacity: 4000  
Pipe Material: Fiberglass Reinforced Plastic  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: 06/20/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 06/20/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL STORE (Continued)**

1006779420

GA FINANCIAL ASSURANCE:

Region: 1  
Facility ID: 9000423  
Financial Responsibility: G.U.S.T. Trust Fund

2  
NNW  
< 1/8  
0.118 mi.  
623 ft.

**SARDIS ROAD CREOSOTE SITE**  
**SARDIS ROAD**  
**KENNESAW, GA 30144**

**CERCLIS 1001126489**  
**FINDS GA0001878719**

**Relative:**  
**Higher**

**Actual:**  
**1105 ft.**

CERCLIS:

Site ID: 0406635  
EPA ID: GA0001878719  
Facility County: COBB  
Short Name: SARDIS ROAD CREOSOTE SITE  
Congressional District: 07  
IFMS ID: Not reported  
SMSA Number: 0520  
USGC Hydro Unit: 03130002  
Federal Facility: Not a Federal Facility  
DMNSN Number: 2.00000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 04  
Classification: Not reported  
Site Settings Code: Not reported  
NPL Status: Not on the NPL  
DMNSN Unit Code: ACRE  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information  
Non NPL Status Date: 19991203  
Site Fips Code: 13067  
CC Concurrence Date: Not reported  
CC Concurrence FY: Not reported  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 4000275.00000  
Contact Name: William Joyner  
Contact Tel: (404) 562-8795  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: joyner.william@epa.gov

Contact ID: 13002428.00000  
Contact Name: Donna Seadler  
Contact Tel: (404) 562-8870  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: seadler.donna@epa.gov

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SARDIS ROAD CREOSOTE SITE (Continued)

1001126489

Contact ID: 4272610.00000  
Contact Name: Carolyn Callihan  
Contact Tel: (404) 562-8913  
Contact Title: Site Assessment Manager (SAM)  
Contact Email: Carolyn Callihan/R4/USEPA/US,

Alias Comments: Not reported  
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001  
Action: DISCOVERY  
Date Started: Not reported  
Date Completed: 02/10/1997  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: Not reported  
Date Completed: 08/28/1998  
Priority Level: Higher priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

Action Code: 001  
Action: SITE INSPECTION  
Date Started: Not reported  
Date Completed: 12/03/1999  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported

FINDS:

Registry ID: 110009276568

Environmental Interest/Information System

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities,

Map ID  
Direction  
Distance  
Elevation



Site

Database(s)

EDR ID Number  
EPA ID Number

**SARDIS ROAD CREOSOTE SITE (Continued)**  
and financial information.

1001126489

3  
SSE  
1/8-1/4  
0.166 mi.  
875 ft.

**TUG TECHNOLOGIES CORPORATION**  
2652 S MAIN ST NORTH  
KENNESAW, GA 30144

RCRA-SQG 1000507525  
FINDS GAD984303982

Relative:  
Lower

RCRA-SQG:

Date form received by agency: 01/22/2008

Facility name: TUG TECHNOLOGIES CORPORATION

Facility address: 1995 DUNCAN DR  
KENNESAW, GA 30144

EPA ID: GAD984303982

Mailing address: ALLGOOD RD  
MARIETTA, GA 30062

Contact: NIGEL AUBREY

Contact address: ALLGOOD RD  
MARIETTA, GA 30062

Contact country: US

Contact telephone: (404) 732-8048

Contact email: Not reported

EPA Region: 04

Land type: Private

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Actual:  
1081 ft.

Owner/Operator Summary:

Owner/operator name: STEWART & STEVENSON

Owner/operator address: Not reported

Not reported

Owner/operator country: US

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 12/28/1998

Owner/Op end date: Not reported

Owner/operator name: ASHLEY KENNESAW LLC

Owner/operator address: ROCKDALE INDUSTRL BLVD  
CONYERS, GA 30012

Owner/operator country: US

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 04/25/2007

Owner/Op end date: Not reported

Owner/operator name: TUG TECHNOLOGIES CORPORATION

Owner/operator address: ALLGOOD RD  
MARIETTA, GA 30062

Owner/operator country: US

Map ID  
Direction  
Distance  
Elevation



Site

Database(s)  
EDR ID Number  
EPA ID Number

**TUG TECHNOLOGIES CORPORATION (Continued)**

**1000507525**

Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/24/2005  
Owner/Op end date: Not reported

Owner/operator name: STEWART & STEVENSON  
Owner/operator address: Not reported  
Not reported

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 12/28/1998  
Owner/Op end date: Not reported

Owner/operator name: TUG TECHNOLOGIES CORPORATION  
Owner/operator address: Not reported  
GA

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 01/21/2005  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 03/22/2007  
Facility name: TUG TECHNOLOGIES CORPORATION  
Classification: Large Quantity Generator

Date form received by agency: 01/27/2005  
Facility name: TUG TECHNOLOGIES CORPORATION  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/15/2004  
Facility name: TUG TECHNOLOGIES CORPORATION  
Site name: STEWART & STEVENSON TUG  
Classification: Conditionally Exempt Small Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TUG TECHNOLOGIES CORPORATION (Continued)**

1000507525

Date form received by agency: 08/02/2002  
Facility name: TUG TECHNOLOGIES CORPORATION  
Site name: STEWART & STEVENSON TUG  
Classification: Small Quantity Generator

Date form received by agency: 02/20/2002  
Facility name: TUG TECHNOLOGIES CORPORATION  
Site name: STEWART & STEVENSON TUG  
Classification: Large Quantity Generator

Date form received by agency: 07/31/2001  
Facility name: TUG TECHNOLOGIES CORPORATION  
Site name: STEWART & STEVENSON TUG  
Classification: Large Quantity Generator

Date form received by agency: 03/28/2001  
Facility name: TUG TECHNOLOGIES CORPORATION  
Site name: STEWART & STEVENSON TUG  
Classification: Large Quantity Generator

Date form received by agency: 07/21/1997  
Facility name: TUG TECHNOLOGIES CORPORATION  
Site name: STEWART & STEVENSON TUG  
Classification: Small Quantity Generator

**Hazardous Waste Summary:**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018  
Waste name: BENZENE

Waste code: D035  
Waste name: METHYL ETHYL KETONE

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TUG TECHNOLOGIES CORPORATION (Continued)

1000507525

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	01/16/2008
Date achieved compliance:	04/14/2008
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/12/2008
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - Records/Reporting
Date violation determined:	01/16/2008
Date achieved compliance:	04/14/2008
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/12/2008
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	Generators - Pre-transport
Date violation determined:	01/16/2008
Date achieved compliance:	04/14/2008
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/12/2008
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	TSD IS-Container Use and Management
Date violation determined:	01/16/2008
Date achieved compliance:	04/14/2008
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/12/2008
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TUG TECHNOLOGIES CORPORATION (Continued)**

1000507525

Evaluation date: 01/14/2004  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 09/26/2000  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Generators - General  
Date achieved compliance: 10/30/2000  
Evaluation lead agency: State

Evaluation date: 09/26/2000  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Generators - General  
Date achieved compliance: 11/07/2000  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110005699208

**Environmental Interest/Information System**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZARDOUS WASTE BIENNIAL REPORTER**

A4 **BIG SHANTY SUPERETTE #8**  
West 2778 SOUTH MAIN ST  
1/8-1/4 KENNESAW, GA 30144  
0.206 mi.  
1088 ft. **Site 1 of 2 in cluster A**

UST U003001942  
FINANCIAL ASSURANCE N/A

Relative: Facility:  
Lower Facility Id: 330116  
Facility Status: Active  
Actual: Facility Type: Gas Station  
1102 ft. District: PIRT 7  
Contact Id: 44  
Owner Name: PETROSOUTH INC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

TUG TECHNOLOGIES CORPORATION (Continued)

1000507525

Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - 391-3-11-.08  
Area of violation: Generators - General  
Date violation determined: 09/26/2000  
Date achieved compliance: 11/07/2000  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 10/16/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - 12-8-65.1  
Area of violation: Generators - General  
Date violation determined: 09/26/2000  
Date achieved compliance: 10/30/2000  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 10/16/2000  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 01/16/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Records/Reporting  
Date achieved compliance: 04/14/2008  
Evaluation lead agency: State

Evaluation date: 01/16/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD IS-Container Use and Management  
Date achieved compliance: 04/14/2008  
Evaluation lead agency: State

Evaluation date: 01/16/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - Pre-transport  
Date achieved compliance: 04/14/2008  
Evaluation lead agency: State

Evaluation date: 01/16/2008  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 04/14/2008  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIG SHANTY SUPERETTE #8 (Continued)**

U003001942

Owner Address: PO BOX 99  
Owner City: GRIFFIN  
Owner State: GA  
Owner Zip: 30224  
Owner City,St,Zip: GRIFFIN, GA 30224  
Owner Telephone: 770-227-8804

Tanks:

Facility ID: 330116  
Tank ID: REG  
Status Date: 10/03/1985  
**Status: Currently In Use**  
Product1: Gas  
Material: Composite  
Capacity: 10000  
Pipe Material: Double Walled Flex  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: 12/01/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 12/01/1997

Facility ID: 330116  
Tank ID: REG  
Status Date: 10/03/1985  
**Status: Installed**  
Product1: Gas  
Material: Composite  
Capacity: 10000  
Pipe Material: Double Walled Flex  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: 12/01/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 12/01/1997

Facility ID: 330116  
Tank ID: SUL  
Status Date: 10/03/1985  
**Status: Currently In Use**  
Product1: Gas  
Material: Composite  
Capacity: 10000  
Pipe Material: Double Walled Flex  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: 12/01/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 12/01/1997

Facility ID: 330116  
Tank ID: SUL  
Status Date: 10/03/1985  
**Status: Installed**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIG SHANTY SUPERETTE #8 (Continued)**

U003001942

Product1: Gas  
Material: Composite  
Capacity: 10000  
Pipe Material: Double Walled Flex  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: 12/01/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 12/01/1997

Facility ID: 330116  
Tank ID: UNL  
Status Date: 10/03/1985  
**Status: Currently In Use**  
Product1: Gas  
Material: Composite  
Capacity: 10000  
Pipe Material: Double Walled Flex  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: 12/01/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 12/01/1997

Facility ID: 330116  
Tank ID: UNL  
Status Date: 10/03/1985  
**Status: Installed**  
Product1: Gas  
Material: Composite  
Capacity: 10000  
Pipe Material: Double Walled Flex  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: 12/01/1997  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: 12/01/1997

**GA FINANCIAL ASSURANCE:**

Region: 1  
Facility ID: 330116  
Financial Responsibility: G.U.S.T. Trust Fund

A5  
West  
1/8-1/4  
0.206 mi.  
1088 ft.

**BIG SHANTY SUPERETTE #8**  
2778 SOUTH MAIN ST  
KENNESAW, GA 30144  
**Site 2 of 2 in cluster A**

**FINDS** 1006781597  
**LUST** N/A

Relative:  
Lower

FINDS:

Registry ID: 110013509630

Actual:  
1102 ft.

Environmental Interest/Information System

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIG SHANTY SUPERETTE #8 (Continued)**

1006781597

GEIMS (Geographic Environmental Information Management System) provides the EPA and Public a single point of access to core data for all facilities and sites regulated or monitored by the EPA and a single system for the reporting of all environmental data.

LUST:

Facility ID: 00330116  
Leak ID: 1  
Description: Confirmed Release Received  
Cleanup Status: NFA -Monitoring Only (MNA)  
Date Received: 01/20/1998  
Project Officer: Mayila,Ferdinand

Facility ID: 00330116  
Leak ID: 2  
Description: Suspected Release Received  
Cleanup Status: NFA - Suspected Release  
Date Received: 12/09/2010  
Project Officer: Knowles,Gilda A

6  
NW  
1/8-1/4  
0.231 mi.  
1218 ft.

**KENNESAW CIVIL WAR MUSEUM**  
2829 CHEROKEE ST  
KENNESAW, GA 30144

RCRA-NonGen 1004688594  
FINDS GAR000028506

Relative:  
Lower

RCRA-NonGen:

Date form received by agency: 08/27/2001  
Facility name: KENNESAW CIVIL WAR MUSEUM  
Facility address: 2829 CHEROKEE ST  
KENNESAW, GA 30144  
EPA ID: GAR000028506  
Mailing address: CHEROKEE ST  
KENNESAW, GA 30144  
Contact: JEFF DROBNEY  
Contact address: 2829 CHEROKEE ST  
KENNESAW, GA 30144  
Contact country: US  
Contact telephone: (678) 354-7433  
Contact email: Not reported  
EPA Region: 04  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:  
1103 ft.

Owner/Operator Summary:

Owner/operator name: CITY OF KENNESAW  
Owner/operator address: 2529 JO STEPHENSON AVE  
KENNESAW, GA 30144  
Owner/operator country: Not reported  
Owner/operator telephone: (770) 424-8274  
Legal status: Municipal  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/0001  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KENNESAW CIVIL WAR MUSEUM (Continued)**

**1004688594**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 08/21/2001  
Facility name: KENNESAW CIVIL WAR MUSEUM  
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KENNESAW CIVIL WAR MUSEUM (Continued)**

1004688594

Registry ID: 110012284063

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

7  
 WNW  
 1/8-1/4  
 0.234 mi.  
 1235 ft.

**KENNESAW TEXACO**  
**2820 SOUTH MAIN ST**  
**KENNESAW, GA 30144**

LUST U001475409  
 UST N/A  
**FINANCIAL ASSURANCE**

Relative:  
 Lower

LUST:

Facility ID: 00330030  
 Leak ID: 1  
 Description: Confirmed Release Received  
 Cleanup Status: NFA - No Further Action  
 Date Received: 09/05/1997  
 Project Officer: White, Kenneth

Actual:  
 1080 ft.

Facility:

Facility Id: 330030  
 Facility Status: Closed  
 Facility Type: Gas Station  
 District: PIRT 7  
 Contact Id: 1865  
 Owner Name: THE CITY OF KENNESAW  
 Owner Address: 2529 J O STEPHENSON AVE  
 Owner City: KENNESAW  
 Owner State: GA  
 Owner Zip: 30144  
 Owner City,St,Zip: KENNESAW, GA 30144  
 Owner Telephone: 770-424-8274

Tanks:

Facility ID: 330030  
 Tank ID: 1  
 Status Date: 03/31/1986  
**Status: Installed**  
 Product1: Gas  
 Material: Bare Steel  
 Capacity: 1000  
 Pipe Material: Galvanized Steel  
 Pipe Type: Suction: Valve At The Tank  
 Overfill Protection: Not reported  
 Overfill Installed: Not reported  
 Tank Exempt From Spill: Not reported  
 Date Spill Device Installed: Not reported

Facility ID: 330030  
 Tank ID: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

KENNESAW TEXACO (Continued)

U001475409

Status Date: 08/14/1997  
**Status:** Removed From Ground  
Product1: Gas  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 1  
Status Date: Not reported  
**Status:** Upgrade Repair Not Marked  
Product1: Gas  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 2  
Status Date: 04/01/1980  
**Status:** Installed  
Product1: Diesel  
Material: Bare Steel  
Capacity: 2000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 2  
Status Date: 08/14/1997  
**Status:** Removed From Ground  
Product1: Diesel  
Material: Bare Steel  
Capacity: 2000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

KENNESAW TEXACO (Continued)

U001475409

Facility ID: 330030  
Tank ID: 2  
Status Date: Not reported  
**Status:** Upgrade Repair Not Marked  
Product1: Diesel  
Material: Bare Steel  
Capacity: 2000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 3  
Status Date: 03/31/1986  
**Status:** Installed  
Product1: Gas  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 3  
Status Date: 08/14/1997  
**Status:** Removed From Ground  
Product1: Gas  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 3  
Status Date: Not reported  
**Status:** Upgrade Repair Not Marked  
Product1: Gas  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

KENNESAW TEXACO (Continued)

U001475409

Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 4  
Status Date: 03/31/1986  
**Status: Installed**  
Product1: Gas  
Material: Bare Steel  
Capacity: 560  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 4  
Status Date: 08/14/1997  
**Status: Removed From Ground**  
Product1: Gas  
Material: Bare Steel  
Capacity: 560  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 4  
Status Date: Not reported  
**Status: Upgrade Repair Not Marked**  
Product1: Gas  
Material: Bare Steel  
Capacity: 560  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 5  
Status Date: 03/31/1986  
**Status: Installed**  
Product1: Kerosene  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KENNESAW TEXACO (Continued)**

U001475409

Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 5  
Status Date: 08/14/1997  
**Status: Removed From Ground**  
Product1: Kerosene  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 330030  
Tank ID: 5  
Status Date: Not reported  
**Status: Upgrade Repair Not Marked**  
Product1: Kerosene  
Material: Bare Steel  
Capacity: 1000  
Pipe Material: Galvanized Steel  
Pipe Type: Suction: Valve At The Tank  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

**GA FINANCIAL ASSURANCE:**

Region: 1  
Facility ID: 330030  
Financial Responsibility: G.U.S.T. Trust Fund

8  
SSW  
1/4-1/2  
0.354 mi.  
1871 ft.

**COMPLETE P.C. RECYCLING**  
2641A KENNESAW DUE WEST ROAD, N.W.  
KENNESAW, GA 30144

**SWRCY S110820837**  
N/A

**Relative:  
Higher**

SWRCY:  
City/State/Zip: Kennesaw, Georgia30144  
Contact Name: Andy Boxton  
Phone: 770-428-1998  
Fax: Not reported  
Email: Not reported  
Web Address: www.completepcrecycling.us  
Pick Up: Yes  
Rail Access: No  
Operation Hrs: 9-6 M-F; 9-1:30 Sat

**Actual:  
1122 ft.**

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**COMPLETE P.C. RECYCLING (Continued)**

S110820837

Type Recy: Collector, Processor  
Notes: Accepts from individuals and businesses. Free drop-off

9  
NW  
1/4-1/2  
0.355 mi.  
1877 ft.

**C W TIRE INC**  
2907/2911 N MAIN ST  
KENNESAW, GA 30144

**LUST** U003005233  
**UST** N/A  
**FINANCIAL ASSURANCE**

Relative:  
Lower

**LUST:**  
Facility ID: 09033365  
Leak ID: 1  
Description: Confirmed Release Received  
Cleanup Status: NFA -Monitoring Only (MNA)  
Date Received: 03/01/2001  
Project Officer: Li,Yonghong June

Actual:  
1102 ft.

**Facility:**  
Facility Id: 9033365  
Facility Status: Closed  
Facility Type: Gas Station  
District: PIRT 7  
Contact Id: 2009  
Owner Name: C W TIRE INC  
Owner Address: 1750 DONALD DRIVE  
Owner City: MARIETTA  
Owner State: GA  
Owner Zip: 30062  
Owner City,St,Zip: MARIETTA, GA 30062  
Owner Telephone: 404-863-0121

**Tanks:**

Facility ID: 9033365  
Tank ID: 1  
Status Date: Not reported  
**Status: Installed**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 1  
Status Date: 08/01/2000  
**Status: Removed From Ground**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Pressure  
Overfill Protection: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C W TIRE INC (Continued)

U003005233

Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 1  
Status Date: Not reported  
**Status: Upgrade Repair Not Marked**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 2  
Status Date: Not reported  
**Status: Installed**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 2  
Status Date: 08/01/2000  
**Status: Removed From Ground**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 2  
Status Date: Not reported  
**Status: Upgrade Repair Not Marked**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C W TIRE INC (Continued)

U003005233

Pipe Material: Bare Steel  
Pipe Type: Pressure  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 3  
Status Date: Not reported  
**Status: Installed**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Gravity Fed  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 3  
Status Date: 08/01/2000  
**Status: Removed From Ground**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Gravity Fed  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 3  
Status Date: Not reported  
**Status: Upgrade Repair Not Marked**  
Product1: Gas  
Material: Bare Steel  
Capacity: 3000  
Pipe Material: Bare Steel  
Pipe Type: Gravity Fed  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 4  
Status Date: Not reported  
**Status: Installed**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

C W TIRE INC (Continued)

U003005233

Product1: Used Oil  
Material: Bare Steel  
Capacity: 550  
Pipe Material: Bare Steel  
Pipe Type: Gravity Fed  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 4  
Status Date: 08/01/2000  
**Status: Removed From Ground**  
Product1: Used Oil  
Material: Bare Steel  
Capacity: 550  
Pipe Material: Bare Steel  
Pipe Type: Gravity Fed  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

Facility ID: 9033365  
Tank ID: 4  
Status Date: Not reported  
**Status: Upgrade Repair Not Marked**  
Product1: Used Oil  
Material: Bare Steel  
Capacity: 550  
Pipe Material: Bare Steel  
Pipe Type: Gravity Fed  
Overfill Protection: Not reported  
Overfill Installed: Not reported  
Tank Exempt From Spill: Not reported  
Date Spill Device Installed: Not reported

GA FINANCIAL ASSURANCE:

Region: 1  
Facility ID: 9033365  
Financial Responsibility: G.U.S.T. Trust Fund

10  
WNW  
1/4-1/2  
0.366 mi.  
1935 ft.

KENNESAW POLICE DEPT  
2539 J O STEPHENSON AVE  
KENNESAW, GA 30144

FINDS 1006786752  
LUST N/A

Relative:  
Lower

FINDS:

Registry ID: 110013561537

Actual:  
1088 ft.

Environmental Interest/Information System

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KENNESAW POLICE DEPT (Continued)**

1006786752

GEIMS (Geographic Environmental Information Management System) provides the EPA and Public a single point of access to core data for all facilities and sites regulated or monitored by the EPA and a single system for the reporting of all environmental data.

LUST:

Facility ID: 00330336  
 Leak ID: 1  
 Description: Confirmed Release Received  
 Cleanup Status: NFA - No Further Action  
 Date Received: 03/19/2003  
 Project Officer: Badru,Abiola

11  
 WSW  
 1/4-1/2  
 0.495 mi.  
 2615 ft.

FINA  
 2650 COBB PARKWAY NW  
 KENNESAW, GA 30144

AST A100329308  
 N/A

Relative:  
 Lower

AST:

Owner Name: Green's Fuel Company Of Ga Inc  
 Owner Address: 321 E Pike Street  
 Owner City/State/Zip: Lawrenceville GA 30246  
 Number Of Tanks: 20  
 Tank Capacity: 0

Actual:  
 1051 ft.

12  
 SE  
 1/2-1  
 0.505 mi.  
 2664 ft.

GA AIR NATL GUARD - 129 ACS  
 1901 MCCOLLUM PKWY  
 KENNESAW, GA 30144

CORRACTS 1001195768  
 RCRA-NonGen GAR000010769  
 FINDS

Relative:  
 Lower

CORRACTS:

EPA ID: GAR000010769  
 EPA Region: 04  
 Area Name: AOCA - SURFACE DISPOSAL  
 Actual Date: 01/03/1996  
 Action: CA050PA - RFA Completed, Assessment was a PA-Plus  
 NAICS Code(s): Not reported  
 Original schedule date: Not reported  
 Schedule end date: Not reported

EPA ID: GAR000010769  
 EPA Region: 04  
 Area Name: AOC B-BURIAL SITE  
 Actual Date: 01/03/1996  
 Action: CA050PA - RFA Completed, Assessment was a PA-Plus  
 NAICS Code(s): Not reported  
 Original schedule date: Not reported  
 Schedule end date: Not reported

EPA ID: GAR000010769  
 EPA Region: 04

Map ID  
Direction  
Distance  
Elevation



Site

Database(s)

EDR ID Number  
EPA ID Number

**GA AIR NATL GUARD - 129 ACS (Continued)**

1001195768

Area Name: AOCA - SURFACE DISPOSAL  
Actual Date: 02/27/1997  
Action: CA999 - Corrective Action Process Terminated  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: GAR000010769  
EPA Region: 04  
Area Name: AOC B-BURIAL SITE  
Actual Date: 02/27/1997  
Action: CA999 - Corrective Action Process Terminated  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-NonGen:**

Date form received by agency: 06/12/1998  
Facility name: GA AIR NATL GUARD - 129 ACS  
Facility address: 1901 MCCOLLUM PKWY  
KENNESAW, GA 301443688  
EPA ID: GAR000010769  
Mailing address: MCCOLLUM PKWY  
KENNESAW, GA 301443688  
Contact: JONATHAN COX  
Contact address: 235 5TH ST BLDG 272  
ROBINS AFB, GA 31098  
Contact country: US  
Contact telephone: (912) 926-0099  
Contact email: Not reported  
EPA Region: 04  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: GA AIR NATL GD 116 GW/EMO  
Owner/operator address: 235 5TH ST BLDG 272  
ROBINS AFB, GA 31098  
Owner/operator country: Not reported  
Owner/operator telephone: (912) 926-0099  
Legal status: Federal  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GA AIR NATL GUARD - 129 ACS (Continued)**

1001195768

User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

**Hazardous Waste Summary:**

Waste code: D001  
 Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

**Corrective Action Summary:**

Event date: 01/03/1996  
 Event: RFA Completed, Assessment was a PA-Plus.  
  
 Event date: 02/27/1997  
 Event: Corrective Action Process Terminated  
  
 Violation Status: No violations found

**FINDS:**

Registry ID: 110005712979

**Environmental Interest/Information System**

GEIMS (Geographic Environmental Information Management System) provides the EPA and Public a single point of access to core data for all facilities and sites regulated or monitored by the EPA and a single system for the reporting of all environmental data.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

13  
 ESE  
 1/2-1  
 0.635 mi.  
 3355 ft.

**AERO ENGINES**  
 2439 MCCOLLUM PKWY.  
 KENNESAW, GA

GA NON-HSI S103439613  
 N/A

Relative:  
 Lower

NON-HSI:  
 Latitude: Not reported  
 Longitude: Not reported  
 Ground Water Pathway Score: Not reported  
 On-Site Pathway Score: Not reported  
 Report Date: 11/01/1998  
 Contamination: mercury

Actual:  
 1010 ft.

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COBB COUNTY KENNESAW	M300006571 1006790226	VULCAN MATERIALS CO. COBB COUNTY NORTHWEST WRF	KENNESAW QUARRY (#023) 3740 HWY 293	30144	MINES FINDS, LUST, UST, TIER 2, FINANCIAL ASSURANCE
KENNESAW	S107666586	HIGHWAY 41 FLEA MARKET,INC. US41 I	41		SWF/LF
KENNESAW	S108310882	CONSOLIDATED ENVIRONMENTAL SERVICE	1640 ALBRITTON DR		SWF/LF
KENNESAW	S107666217	FLOW MOLE BELLS FERRY ROAD INERT L	BELL FERRY RD		SWF/LF
KENNESAW	S107667586	R & M TRUCKING BELLS FERRY ROAD IN	BELLS FERRY RD		SWF/LF
KENNESAW	1001960310	MORROW EQUIPMENT	1355 BIG CHANTY RD	30144	RCRA-NonGen, FINDS
KENNESAW	1006789230	CHEVRON #40012	2520 N COBB PKWY	30152	FINDS, LUST, UST, FINANCIAL ASSURANCE
KENNESAW	1006783071	DAMANIS FOOD & FUEL INC	2515 N COBB PKWY	30144	FINDS, LUST, UST, FINANCIAL ASSURANCE
KENNESAW	1006790538	CIRCLE K	3129 COBB PKY	30144	FINDS, LUST, UST, FINANCIAL ASSURANCE
KENNESAW	S101558815	SARDIS ROAD CREOSOTE SITE	CORNER OF MAIN ST S & SARDIS	30144	DEL SHWS
KENNESAW	S107667725	RYLAND HOMES INERT LANDFILL	60 GLEN LAKE		SWF/LF
KENNESAW	S107667724	RYLAND HOMES INERT LANDFILL	55 GLEN LAKE		SWF/LF
KENNESAW	S108891750	HTC GROUP LLC SITE	3695 KENNESAW NORTH INDUSTRIAL	30144	INST CONTROL, BROWNFIELDS
KENNESAW	1001816083	CONCRETE COATINGS	3610 KENNESAW N IND PKWY STE D	30144	RCRA-NonGen, FINDS
KENNESAW	1001218481	ELECTRO PAINTERS INC	3640 KENNESAW N IND PKWY	30144	RCRA-NonGen, FINDS
KENNESAW	U004188755	CITGO OF ACWORTH	3801 OLD HWY 41	30144	UST, FINANCIAL ASSURANCE
KENNESAW	S109245932	HOME DEPOT STORE NO 1752	1680 OLD HIGHWAY 41	30152	MANIFEST
KENNESAW	A100329236	DANIEL WINE DBA WINE'S CONVENIENCE	1810 OLD HIGHWAY 41	30152	AST
MARIETTA	A100329168	ATLANTA NORTH KOA	2000 OLD US 41 HWY	30152	AST

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/08/2012	Source: EPA
Date Data Arrived at EDR: 05/10/2012	Telephone: N/A
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 05/10/2012
Number of Days to Update: 5	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/30/2012	Source: EPA
Date Data Arrived at EDR: 04/05/2012	Telephone: N/A
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### **DELISTED NPL: National Priority List Deletions**

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/30/2012	Source: EPA
Date Data Arrived at EDR: 04/05/2012	Telephone: N/A
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### **CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System**

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

### **FEDERAL FACILITY: Federal Facility Site Information listing**

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 04/12/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### **CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned**

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 04/05/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### **CORRACTS: Corrective Action Report**

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORD SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011  
Date Data Arrived at EDR: 08/31/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 132

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 05/15/2012  
Next Scheduled EDR Contact: 08/27/2012  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 04/04/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 04/04/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 04/04/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 04/04/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Varies

**Federal institutional controls / engineering controls registries**

**US ENG CONTROLS: Engineering Controls Sites List**

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 03/12/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

**US INST CONTROL: Sites with Institutional Controls**

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 03/12/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

**Federal ERNS list**

**ERNS: Emergency Response Notification System**

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/03/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/04/2011	Telephone: 202-267-2180
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 04/03/2012
Number of Days to Update: 38	Next Scheduled EDR Contact: 07/16/2012
	Data Release Frequency: Annually

**State- and tribal - equivalent CERCLIS**

**SHWS: Hazardous Site Inventory**

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 07/01/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/21/2011	Telephone: 404-657-8600
Date Made Active in Reports: 08/09/2011	Last EDR Contact: 04/02/2012
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/16/2012
	Data Release Frequency: Annually

**NON HSI: Non-Hazardous Site Inventory**

This list was obtained by EDR in 1998 and contains property listings that have reported contamination of soil or groundwater under the Georgia Hazardous Site Response Act (HSRA). These sites were not placed on the Georgia Priority list (Hazardous Site Inventory or HSI) because their hazard evaluation scores did not exceed the threshold levels established for sites posing an imminent threat to health or the environment. Disclaimer provided by Rindt-McDuff Associates - the database information has been obtained from publicly available sources produced by other entities. While reasonable steps have been taken to insure the accuracy of the data, RMA does not guarantee the accuracy of the data. No claim is made for the actual existence of pollution at any site. This data does not constitute a legal opinion.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2012	Source: Rindt-McDuff Associates, Inc.
Date Data Arrived at EDR: 04/16/2012	Telephone: N/A
Date Made Active in Reports: 05/14/2012	Last EDR Contact: 03/16/2012
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Annually

### *State and tribal landfill and/or solid waste disposal site lists*

#### SWF/LF: Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/04/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/11/2011	Telephone: 404-362-2696
Date Made Active in Reports: 06/23/2011	Source: Center for GIS, Georgia Institute of Technology
Number of Days to Update: 43	Telephone: 404-385-0900
	Last EDR Contact: 05/11/2012
	Next Scheduled EDR Contact: 08/20/2012
	Data Release Frequency: Semi-Annually

### *State and tribal leaking storage tank lists*

#### LUST: List of Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/11/2012	Source: Environmental Protection Division
Date Data Arrived at EDR: 03/21/2012	Telephone: 404-362-2687
Date Made Active in Reports: 04/10/2012	Last EDR Contact: 03/21/2012
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/02/2012
	Data Release Frequency: Quarterly

#### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011	Source: EPA Region 4
Date Data Arrived at EDR: 12/15/2011	Telephone: 404-562-8677
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 04/30/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Semi-Annually

#### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/14/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/17/2012	Telephone: 415-972-3372
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/30/2012
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Quarterly

#### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 02/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/30/2012
Number of Days to Update: 103	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011	Source: EPA Region 1
Date Data Arrived at EDR: 11/01/2011	Telephone: 617-918-1313
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 05/01/2012
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Varies

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 04/23/2012
Number of Days to Update: 59	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Varies

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/17/2012	Telephone: 913-551-7003
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/30/2012
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6271
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 04/30/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Quarterly

### **State and tribal registered storage tank lists**

#### UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 03/08/2012	Source: Environmental Protection Division
Date Data Arrived at EDR: 03/16/2012	Telephone: 404-362-2687
Date Made Active in Reports: 04/11/2012	Last EDR Contact: 03/16/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/02/2012
	Data Release Frequency: Annually

#### AST: Above Ground Storage Tanks

A listing of LP gas tank site locations.

Date of Government Version: 03/06/2012	Source: Office of Insurance & Safety Fire Commissioner
Date Data Arrived at EDR: 03/06/2012	Telephone: 404-656-5875
Date Made Active in Reports: 04/11/2012	Last EDR Contact: 02/27/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Varies

#### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/28/2012      Source: EPA Region 5  
Date Data Arrived at EDR: 02/29/2012      Telephone: 312-886-6136  
Date Made Active in Reports: 05/15/2012      Last EDR Contact: 04/30/2012  
Number of Days to Update: 76      Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Varies

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011      Source: EPA Region 6  
Date Data Arrived at EDR: 05/11/2011      Telephone: 214-665-7591  
Date Made Active in Reports: 06/14/2011      Last EDR Contact: 04/23/2012  
Number of Days to Update: 34      Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Semi-Annually

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011      Source: EPA Region 4  
Date Data Arrived at EDR: 12/15/2011      Telephone: 404-562-9424  
Date Made Active in Reports: 01/10/2012      Last EDR Contact: 04/30/2012  
Number of Days to Update: 26      Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Semi-Annually

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/28/2011      Source: EPA Region 9  
Date Data Arrived at EDR: 11/29/2011      Telephone: 415-972-3368  
Date Made Active in Reports: 01/10/2012      Last EDR Contact: 04/30/2012  
Number of Days to Update: 42      Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Quarterly

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011      Source: EPA Region 8  
Date Data Arrived at EDR: 08/19/2011      Telephone: 303-312-6137  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 04/30/2012  
Number of Days to Update: 25      Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Quarterly

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011      Source: EPA, Region 1  
Date Data Arrived at EDR: 11/01/2011      Telephone: 617-918-1313  
Date Made Active in Reports: 11/11/2011      Last EDR Contact: 05/01/2012  
Number of Days to Update: 10      Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Varies

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 02/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/30/2012
Number of Days to Update: 103	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Quarterly

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 02/07/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/17/2012	Telephone: 913-551-7003
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 04/30/2012
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Varies

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/10/2012
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/30/2012
	Data Release Frequency: Varies

### *State and tribal institutional control / engineering control registries*

#### AUL: Uniform Environmental Covenants

A list of environmental covenants

Date of Government Version: 12/08/2010	Source: Department of Natural Resources
Date Data Arrived at EDR: 01/06/2012	Telephone: 404-657-8600
Date Made Active in Reports: 01/30/2012	Last EDR Contact: 05/18/2012
Number of Days to Update: 24	Next Scheduled EDR Contact: 08/27/2012
	Data Release Frequency: Varies

#### INST CONTROL: Public Record List

Sites on the Public Record Listing that have institutional controls or limitations on use are sites with Risk Reduction Standards of 3, 4, and 5.

Date of Government Version: 10/27/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 11/17/2011	Telephone: 404-657-8600
Date Made Active in Reports: 12/14/2011	Last EDR Contact: 05/15/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/27/2012
	Data Release Frequency: Varies

### *State and tribal voluntary cleanup sites*

#### VCP: Voluntary Cleanup Program site

Georgia's Voluntary Remediation Program Act was created to encourage voluntary investigation and remediation of contaminated properties.

Date of Government Version: 01/01/2012	Source: DNR
Date Data Arrived at EDR: 03/06/2012	Telephone: 404-657-8600
Date Made Active in Reports: 04/10/2012	Last EDR Contact: 03/06/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/18/2012
	Data Release Frequency: Varies

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 02/17/2012  
Date Data Arrived at EDR: 04/03/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 42

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 04/03/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Varies

### *State and tribal Brownfields sites*

#### BROWNFIELDS: Brownfields Public Record List

The Brownfields Public Record lists properties where response actions under the Georgia Hazardous Site Reuse and Redevelopment Act are planned, ongoing or completed.

Date of Government Version: 10/27/2011  
Date Data Arrived at EDR: 11/17/2011  
Date Made Active in Reports: 12/14/2011  
Number of Days to Update: 27

Source: Department of Natural Resources  
Telephone: 404-657-8600  
Last EDR Contact: 05/15/2012  
Next Scheduled EDR Contact: 08/27/2012  
Data Release Frequency: Varies

### ADDITIONAL ENVIRONMENTAL RECORDS

#### *Local Brownfield lists*

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/27/2011  
Date Data Arrived at EDR: 06/27/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 04/03/2012  
Next Scheduled EDR Contact: 07/09/2012  
Data Release Frequency: Semi-Annually

#### *Local Lists of Landfill / Solid Waste Disposal Sites*

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 03/26/2012  
Next Scheduled EDR Contact: 07/09/2012  
Data Release Frequency: No Update Planned

### SWRCY: Recycling Center Listing

A listing of recycling facility locations.

Date of Government Version: 03/14/2012  
Date Data Arrived at EDR: 03/15/2012  
Date Made Active in Reports: 04/10/2012  
Number of Days to Update: 26

Source: Department of Community Affairs  
Telephone: 404-679-1598  
Last EDR Contact: 05/07/2012  
Next Scheduled EDR Contact: 07/12/2012  
Data Release Frequency: Varies

### HIST LF: Historical Landfills

Landfills that were closed many years ago.

Date of Government Version: 01/15/2003  
Date Data Arrived at EDR: 01/20/2004  
Date Made Active in Reports: 02/06/2004  
Number of Days to Update: 17

Source: Department of Natural Resources  
Telephone: 404-362-2696  
Last EDR Contact: 01/20/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### *Local Lists of Hazardous waste / Contaminated Sites*

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 10/07/2011  
Date Data Arrived at EDR: 12/09/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 32

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/06/2012  
Next Scheduled EDR Contact: 06/18/2012  
Data Release Frequency: Quarterly

#### DEL SHWS: Delisted Hazardous Site Inventory Listing

A listing of sites delisted from the Hazardous Site Inventory.

Date of Government Version: 07/01/2011  
Date Data Arrived at EDR: 07/21/2011  
Date Made Active in Reports: 08/09/2011  
Number of Days to Update: 19

Source: Department of Natural Resources  
Telephone: 404-657-8636  
Last EDR Contact: 04/02/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Annually

#### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007  
Date Data Arrived at EDR: 11/19/2008  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 131

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

### *Local Land Records*

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011  
Date Data Arrived at EDR: 09/16/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 13

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 04/30/2012  
Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Varies

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005  
Date Data Arrived at EDR: 12/11/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 31

Source: Department of the Navy  
Telephone: 843-820-7326  
Last EDR Contact: 05/21/2012  
Next Scheduled EDR Contact: 09/03/2012  
Data Release Frequency: Varies

### *Records of Emergency Release Reports*

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011  
Date Data Arrived at EDR: 10/04/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 38

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 04/03/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Annually

#### SPILLS: Spills Information

Oil or Hazardous Material Spills or Releases.

Date of Government Version: 04/04/2012  
Date Data Arrived at EDR: 04/05/2012  
Date Made Active in Reports: 05/14/2012  
Number of Days to Update: 39

Source: Department of Natural Resources  
Telephone: 404-656-6905  
Last EDR Contact: 04/02/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Quarterly

### *Other Ascertainable Records*

#### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 04/04/2012  
Next Scheduled EDR Contact: 07/16/2012  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011

Date Data Arrived at EDR: 08/09/2011

Date Made Active in Reports: 11/11/2011

Number of Days to Update: 94

Source: Department of Transportation, Office of Pipeline Safety

Telephone: 202-366-4595

Last EDR Contact: 05/08/2012

Next Scheduled EDR Contact: 08/20/2012

Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005

Date Data Arrived at EDR: 11/10/2006

Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747

Last EDR Contact: 04/16/2012

Next Scheduled EDR Contact: 07/30/2012

Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009

Date Data Arrived at EDR: 08/12/2010

Date Made Active in Reports: 12/02/2010

Number of Days to Update: 112

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285

Last EDR Contact: 03/12/2012

Next Scheduled EDR Contact: 06/25/2012

Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/01/2011

Date Data Arrived at EDR: 01/25/2012

Date Made Active in Reports: 03/01/2012

Number of Days to Update: 36

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/02/2012

Next Scheduled EDR Contact: 07/16/2012

Data Release Frequency: Varies

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/28/2011

Date Data Arrived at EDR: 12/14/2011

Date Made Active in Reports: 01/10/2012

Number of Days to Update: 27

Source: EPA

Telephone: 703-416-0223

Last EDR Contact: 03/14/2012

Next Scheduled EDR Contact: 06/25/2012

Data Release Frequency: Annually

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010

Date Data Arrived at EDR: 10/07/2011

Date Made Active in Reports: 03/01/2012

Number of Days to Update: 146

Source: Department of Energy

Telephone: 505-845-0011

Last EDR Contact: 02/28/2012

Next Scheduled EDR Contact: 06/11/2012

Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/08/2011	Telephone: 303-231-5959
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 03/07/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/18/2012
	Data Release Frequency: Semi-Annually

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 09/01/2011	Telephone: 202-566-0250
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 02/28/2012
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Annually

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/28/2012
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/09/2012
	Data Release Frequency: Every 4 Years

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/23/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/10/2012
	Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/23/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 09/10/2012
	Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 04/30/2012  
Next Scheduled EDR Contact: 08/13/2012  
Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011  
Date Data Arrived at EDR: 11/10/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 03/26/2012  
Next Scheduled EDR Contact: 07/09/2012  
Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010  
Date Data Arrived at EDR: 11/10/2010  
Date Made Active in Reports: 02/16/2011  
Number of Days to Update: 98

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 04/17/2012  
Next Scheduled EDR Contact: 07/30/2012  
Data Release Frequency: Annually

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011  
Date Data Arrived at EDR: 07/15/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 60

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 03/12/2012  
Next Scheduled EDR Contact: 06/25/2012  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/10/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/12/2012	Telephone: 202-343-9775
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 04/10/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 07/23/2012
	Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (404) 562-9900
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/13/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Quarterly

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/27/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/11/2012
	Data Release Frequency: Biennially

### NPDES: NPDES Wastewater Permit List

A listing of NPDES wastewater permits issued by the Watershed Protection Branch.

Date of Government Version: 01/27/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 02/15/2011	Telephone: 404-362-2680
Date Made Active in Reports: 02/23/2011	Last EDR Contact: 05/18/2012
Number of Days to Update: 8	Next Scheduled EDR Contact: 08/27/2012
	Data Release Frequency: Varies

### DRYCLEANERS: Drycleaner Database

A list of drycleaners in the state. The listing includes drycleaner facilities, that use perchloroethylene, that responded to the Notification of Compliance Status forms. It also includes those businesses that are pick-up stores only and do not conduct dry cleaning on site.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/18/2009  
Date Data Arrived at EDR: 09/18/2009  
Date Made Active in Reports: 10/09/2009  
Number of Days to Update: 21

Source: Department of Natural Resources  
Telephone: 404-363-7000  
Last EDR Contact: 05/15/2012  
Next Scheduled EDR Contact: 08/27/2012  
Data Release Frequency: Varies

## AIRS: Permitted Facility & Emissions Listing

A listing of permitted Air facilities and emissions data.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 02/29/2012  
Date Made Active in Reports: 04/18/2012  
Number of Days to Update: 49

Source: Department of Natural Resources  
Telephone: 404-363-7000  
Last EDR Contact: 02/27/2012  
Next Scheduled EDR Contact: 06/11/2012  
Data Release Frequency: Varies

## TIER 2: Tier 2 Data Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 10/25/2011  
Date Made Active in Reports: 11/18/2011  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: 404-656-4852  
Last EDR Contact: 03/05/2012  
Next Scheduled EDR Contact: 06/18/2012  
Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 04/16/2012  
Next Scheduled EDR Contact: 07/30/2012  
Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 04/23/2012  
Next Scheduled EDR Contact: 08/06/2012  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 04/16/2012  
Next Scheduled EDR Contact: 07/30/2012  
Data Release Frequency: N/A

## COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash landfills.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/27/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 05/31/2011	Telephone: 404-362-2537
Date Made Active in Reports: 07/11/2011	Last EDR Contact: 05/07/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/20/2012
	Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 05/04/2012
Number of Days to Update: 83	Next Scheduled EDR Contact: 08/13/2012
	Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/16/2012
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/25/2012
	Data Release Frequency: Varies

### COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 04/16/2012
Number of Days to Update: 76	Next Scheduled EDR Contact: 07/30/2012
	Data Release Frequency: Varies

### FINANCIAL ASSURANCE: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 03/08/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/16/2012	Telephone: 404-362-4892
Date Made Active in Reports: 04/11/2012	Last EDR Contact: 03/16/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/02/2012
	Data Release Frequency: Annually

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

### EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/20/2012	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/20/2012	Telephone: 860-424-3375
Date Made Active in Reports: 03/15/2012	Last EDR Contact: 05/22/2012
Number of Days to Update: 24	Next Scheduled EDR Contact: 09/03/2012
	Data Release Frequency: Annually

#### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/20/2011	Telephone: N/A
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 04/17/2012
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/30/2012
	Data Release Frequency: Annually

#### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/10/2012	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/09/2012	Telephone: 518-402-8651
Date Made Active in Reports: 03/09/2012	Last EDR Contact: 05/09/2012
Number of Days to Update: 29	Next Scheduled EDR Contact: 08/20/2012
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 01/26/2012  
Date Made Active in Reports: 03/06/2012  
Number of Days to Update: 40

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/23/2012  
Next Scheduled EDR Contact: 08/06/2012  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 06/24/2011  
Date Made Active in Reports: 06/30/2011  
Number of Days to Update: 6

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/27/2012  
Next Scheduled EDR Contact: 06/11/2012  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 08/19/2011  
Date Made Active in Reports: 09/15/2011  
Number of Days to Update: 27

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/19/2012  
Next Scheduled EDR Contact: 07/02/2012  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

### Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Centers  
Source: Department of Human Resources  
Telephone: 404-651-5562

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

**STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

THE VILLAS AT STANFORD  
SARDIS STREET, NW  
KENNESAW, GA 30144

### TARGET PROPERTY COORDINATES

Latitude (North): 34.0212 - 34° 1' 16.32"  
Longitude (West): 84.6112 - 84° 36' 40.32"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 720574.8  
UTM Y (Meters): 3766885.8  
Elevation: 1104 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 34084-A5 KENNESAW, GA  
Most Recent Revision: 1992  
  
West Map: 34084-A6 ACWORTH, GA  
Most Recent Revision: 1992

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

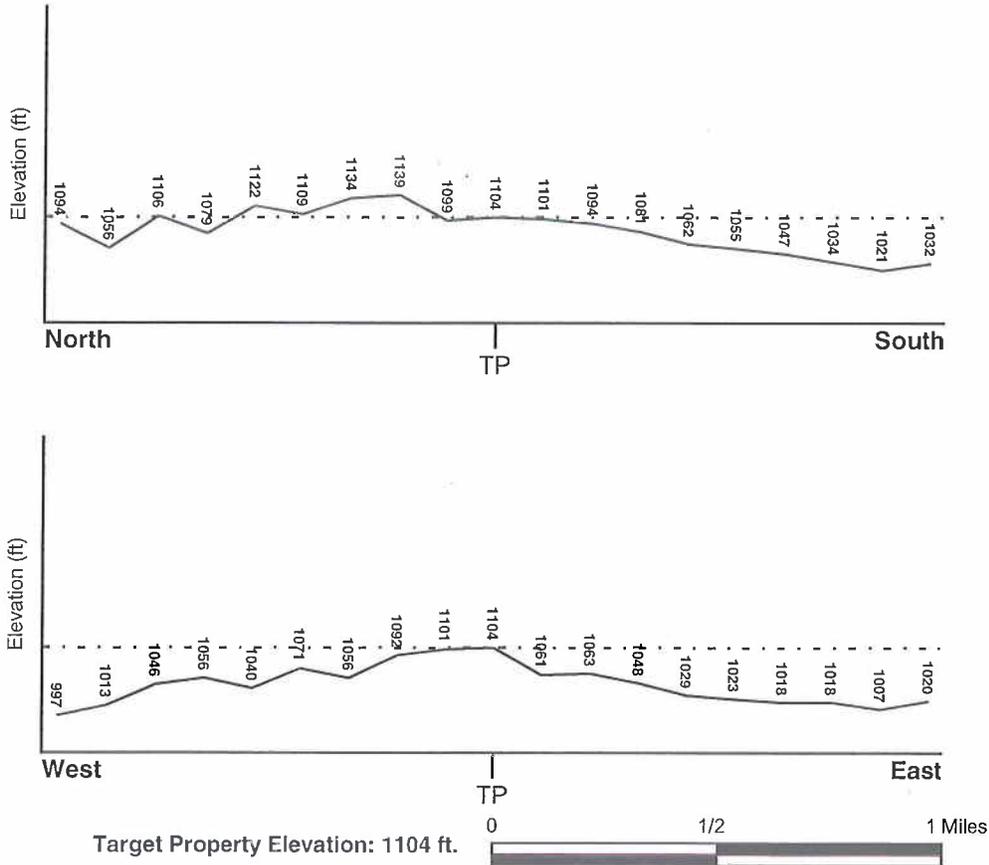
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

Target Property County  
COBB, GA

FEMA Flood Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 13067C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
KENNESAW

NWI Electronic Data Coverage  
YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### AQUIFLOW®

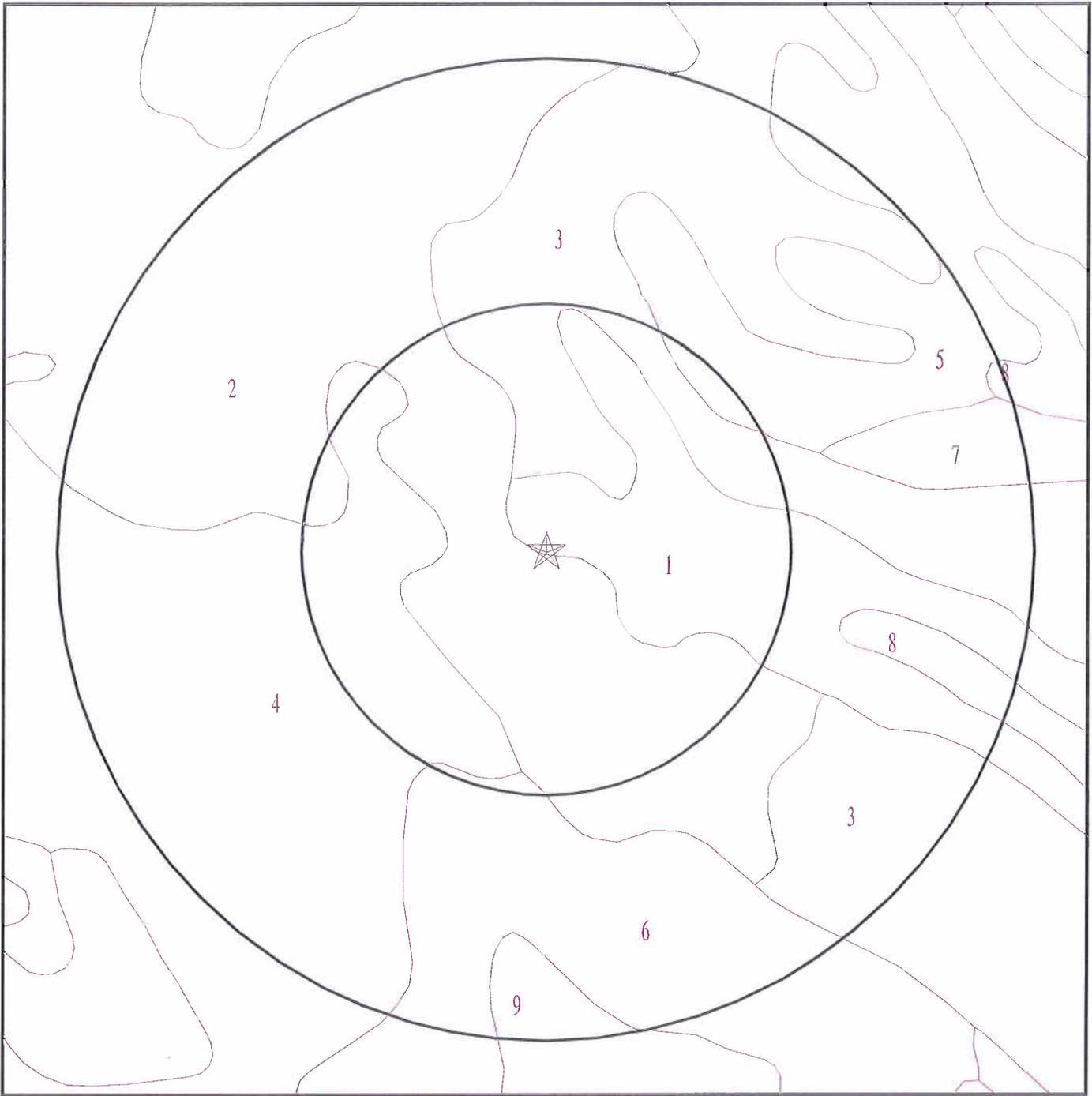
Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	0 - 1/8 Mile WSW	NW

For additional site information, refer to Physical Setting Source Map Findings.

# SSURGO SOIL MAP - 3330087.2s



- ☆ Target Property
- ~ SSURGO Soil
- ~ Water



<b>SITE NAME:</b> The Villas At Stanford <b>ADDRESS:</b> Sardis Street, NW Kennesaw GA 30144 <b>LAT/LONG:</b> 34.0212 / 84.6112	<b>CLIENT:</b> Geotechnical & Env'tl. Cons. <b>CONTACT:</b> Greta Woods <b>INQUIRY #:</b> 3330087.2s <b>DATE:</b> May 24, 2012 1:09 pm
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## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Precambrian  
System: Precambrian  
Series: Paragneiss and schist  
Code: Ym (*decoded above as Era, System & Series*)

#### GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Pacolet

Soil Surface Texture: clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	3 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	29 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5
3	51 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	0 inches	3 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 6.5 Min: 4.5

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### Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture: clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 200 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

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### Soil Map ID: 3

Soil Component Name: Cecil

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	50 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	7 inches	11 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
4	11 inches	50 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

**Soil Map ID: 4**

Soil Component Name: Urban land

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 200 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 5

Soil Component Name: Pacolet

Soil Surface Texture: clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	3 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5
2	29 inches	51 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5
3	51 inches	70 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	0 inches	3 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 4.5

**Soil Map ID: 6**

Soil Component Name: Madison

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

**Soil Map ID: 7**

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

**Soil Map ID: 8**

Soil Component Name: Cartecay

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
2	9 inches	40 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
3	40 inches	59 inches	stratified sand to loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1

**Soil Map ID: 9**

Soil Component Name: Madison

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	29 inches	35 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	5 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
4	35 inches	66 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

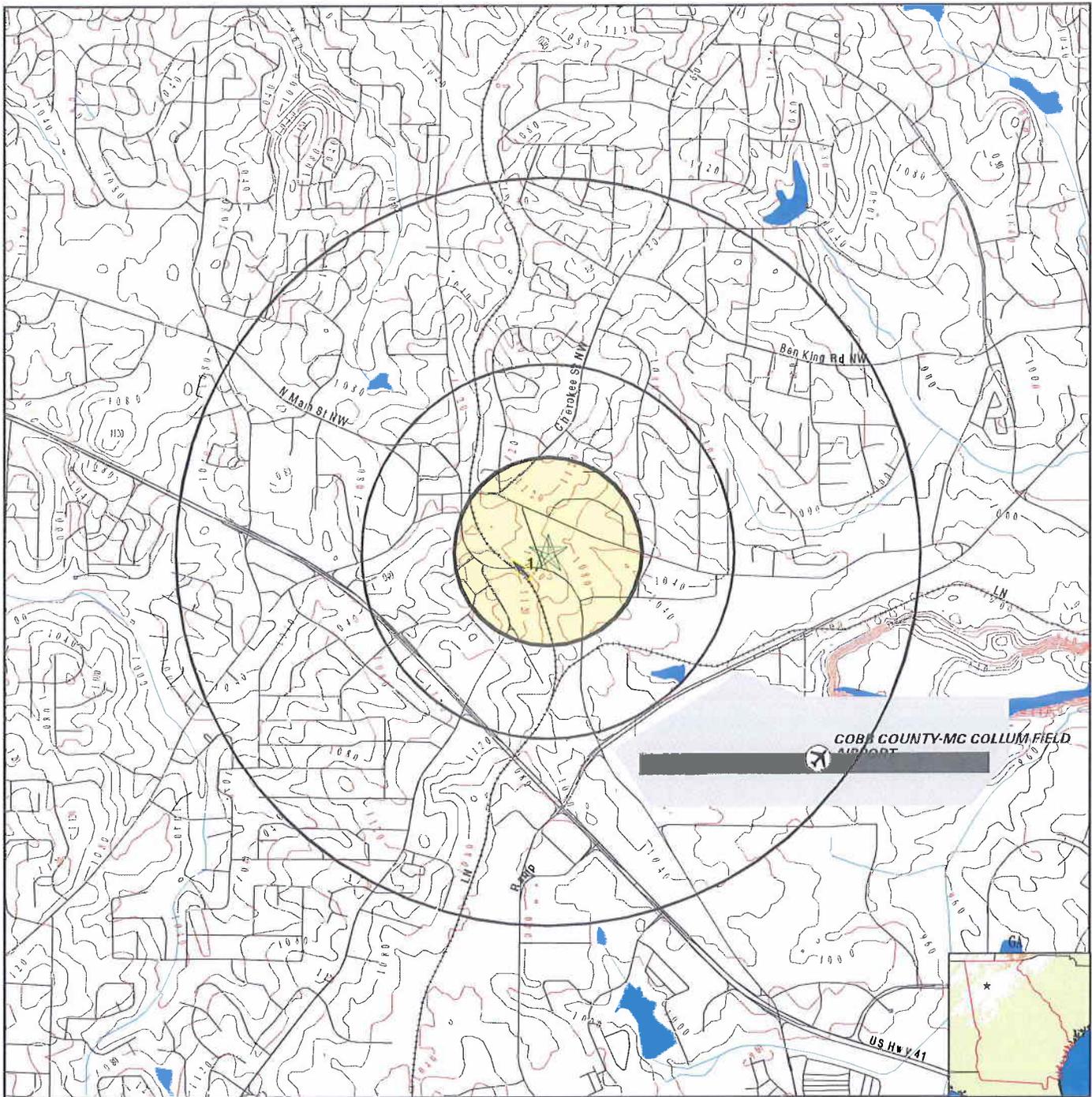
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 3330087.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Wildlife Areas



**SITE NAME:** The Villas At Stanford  
**ADDRESS:** Sardis Street, NW  
 Kennesaw GA 30144  
**LAT/LONG:** 34.0212 / 84.6112

**CLIENT:** Geotechnical & Envtl. Cons.  
**CONTACT:** Greta Woods  
**INQUIRY #:** 3330087.2s  
**DATE:** May 24, 2012 1:09 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

1  
WSW  
0 - 1/8 Mile  
Lower

Site ID:                      0-330116  
Groundwater Flow:        NW  
Shallow Water Depth:     4.27  
Deep Water Depth:        7.23  
Average Water Depth:     Not Reported  
Date:                         04/03/1998

AQUIFLOW      26881

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

### AREA RADON INFORMATION

Federal EPA Radon Zone for COBB County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30144

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.700 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.525 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Georgia Public Supply Wells

Source: Georgia Department of Community Affairs

Telephone: 404-894-0127

#### USGS Georgia Water Wells

Source: USGS, Georgia District Office

Telephone: 770-903-9100

#### DNR Managed Lands

Source: Department of Natural Resources

Telephone: 706-557-3032

This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

## OTHER STATE DATABASE INFORMATION

### RADON

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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**APPENDIX H:**  
**Record of Communications and**  
**Interviews**

## Suggested Format for User Interview Questionnaire

Date: 6/10/12

Property Name: **The Villas at Stanford** \_\_\_\_\_

Name, Address, and Telephone Number of User:

**Paul Robinson**

**1544 South Main Street**

**Fyffe, AL 35971**

**(404) 357-0147**

Name of Interviewer: \_\_\_\_\_

1. Does the user have in his/her possession or control any title records for the Property?

**No**

Yes

If Yes, please provide information below and attach copies of title records to the User Interview Questionnaire.

2. Is the user aware of any environmental liens?

**No**

Yes

If Yes, please provide information below and attach any copies of evidence of environmental liens to the User Interview Questionnaire.

3. Is the user aware of any deed restrictions, engineering or institutional controls, or other activity and use limitations for the Property?

No

Yes

If Yes, please provide information below and attach any copies of evidence of activity and use limitations to the User Interview Questionnaire.

4. Does the user possess any actual or specialized knowledge or experience that is material to any potential recognized environmental conditions in connection with the Property?

No -

Yes

If Yes, please provide information below.

See No Further Action Letter and subsequent approval by EPD including property on Georgia Brownfield Program

5. Is the user aware of any commonly known or reasonably ascertainable information within the local community that is material to any potential recognized environmental conditions in connection with the Property?

No

Yes

If Yes, please provide information below.

See No Further Action Letter and subsequent approval by EPD including property on Georgia Brownfield Program

6. What is the user's reason for having the Phase I site assessment performed (Select all that apply)?

**a. Purchase**

b. Lease

c. Loan

d. Pre-sale assessment

**e. Tax credits**

f. Other (please explain) \_\_\_\_\_

7. Only answer Question 7, if the Property is being purchased. The purchase price of the Property is:

a. Less than the fair market value

b. More than the fair market value

**c. The same as the fair market value**

d. Relationship to the fair market value is unknown

8. Only answer Question 8, if the purchase price is *less than* the fair market value. Is the user aware of any reason, environmental or otherwise, which would explain the differential in the purchase price and the fair market value?

No

Yes

If Yes, please provide information below.

# GEC

## GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.

May 25, 2012

VIA EMAIL: [PhaseIRequest@cobbcounty.org](mailto:PhaseIRequest@cobbcounty.org)

SUBJECT: Information Questionnaire – Fire & HAZMAT Responses  
DCA The Villages at Stanford- proposed apartments  
South Main Street and Sardis Street (no street number)  
Parcels # 20013800500 and 20013800660  
Kennesaw, Cobb County, Georgia  
GEC Job #120392.240

Attention: Fire Chief Sam Heaton  
Cobb County Fire and Emergency Services

Geotechnical & Environmental Consultants, Inc. (GEC) is currently conducting a Department of Community Affairs Phase I Environmental Site Assessment (ESA) on the above referenced undeveloped site located northeast of the intersection of South Main Street and Sardis Street, south of Big Shanty Road in Kennesaw. For the purposes of our assessment, please mark and/or briefly answer the following questions and return to GEC via fax at (478) 757-1608 or email: [gwoods@geconsultants.com](mailto:gwoods@geconsultants.com).

Is there any record of environmentally related fires, hazardous materials responses, or additional known environmental concerns at the subject property or in the immediate site vicinity?

Yes;  No; *If Yes, please elaborate.*

---

Are you aware of any storage tanks (above or underground) currently or formerly located on the subject property or adjacent to it?  Yes;  No *If Yes, please elaborate.*

---

Are you aware of any site history, including its past usage and/or any past tenants (i.e. businesses) and their current/former usage of the property?

---

The subject property is noted on the attached location map. Thanks for your assistance in this matter. If you have any questions or desire any further information, please contact our office.

Sincerely,

Form Completed by: \_\_\_\_\_

Print: \_\_\_\_\_

Date: \_\_\_\_\_

Greta Woods  
For Tameka Gordon  
Environmental Specialist

514 Hillcrest Industrial Boulevard Macon, GA 31204 Tel: (478) 757-1606 Fax: (478) 757-1608  
5031 Milgen Court Columbus, GA 31907 Tel: (706) 569-0008 Fax: (706) 569-0940  
P.O. Box 767637 Roswell, GA Tel: (770) 804-9055 Fax: (478) 757-1608

# GEC

GEOTECHNICAL & ENVIRONMENTAL  
CONSULTANTS, INC.

May 25, 2012

SUBJECT: Information Questionnaire – Environmental Health Responses  
DCA The Villas at Stanford- proposed apartments  
South Main Street and Sardis Street  
Kennesaw, Cobb County, Georgia  
GEC Job #120392.240

**Attention:** Ms. Jessica Awotona  
Cobb County Environmental Health Department

Geotechnical & Environmental Consultants, Inc. (GEC) is currently conducting a DCA Phase I Environmental Site Assessment (ESA) on the above referenced site located northeast of the intersection of South Main Street and Sardis Street, south of Big Shanty Road in Kennesaw. For the purposes of our assessment, please mark and/or briefly answer the following questions and return to GEC via fax at (478) 757-1608 or email: [gwoods@geconsultants.com](mailto:gwoods@geconsultants.com).

Is there any record of environmental/health responses or other known environmental concerns at the subject property or in the immediate site vicinity?

Yes;  No If Yes, please elaborate.

---

Utilities serving the subject property. Mark all that apply.

city water  well water  unknown/do not know  
 city sewer  septic system  
 previous water well on site?  previous septic system on site?

Please elaborate if you aware of any site history such as past tenants and/or past property usage?

---

The subject property is noted on the attached location map. Thanks for your assistance in this matter. If you have any questions or desire any further information, please contact our office.

Sincerely,

Form Completed by: \_\_\_\_\_

Greta Woods  
ForTameka Gordon  
Environmental Specialist

Print: \_\_\_\_\_

Date: \_\_\_\_\_

*Planning & Zoning Administrator*  
*Darryl Simmons*



June 13, 2012

Mr. Paul Robinson  
Vantage Development, LLC  
P.O. Box 170 (1544 S. Main Street)  
Fyffe, AL 35971

**RE:** Zoning for The Villas at Stanford, a proposed 55+ elderly housing development including up to 74 units, located off of Sardis Street between Main Street and Big Shanty Drive in Kennesaw, GA.

Dear Mr. Robinson:

This letter is to confirm the Zoning for the above referenced property. This property is located within the City of Kennesaw, and is zoned CBD (Central Business District). The senior living residence such as the above mentioned development is a permitted use in CBD zoning. The above referenced development meets the requirements of the zoning and land use classification and is therefore an allowable use of this site.

Parking requirement at .75 spaces per unit will be in compliance with City development standards.

If you have any questions, please contact me at city hall (770)590-8268.

Sincerely,

A handwritten signature in black ink, which appears to read "Darryl Simmons". The signature is written in a cursive style and is positioned above the typed name.

Darryl Simmons  
City of Kennesaw Planning and Zoning Administrator



## COBB COUNTY WATER SYSTEM

Customer Services Facility  
660 South Cobb Drive  
Marietta, Georgia 30060-3105  
770-423-1000  
www.cobbwater.org

Stephen D. McCullers, P.E.

Director

### Divisions

Business Services  
Customer Services  
Engineering & Records  
Stormwater Management  
System Maintenance  
Water Protection

June 7, 2012

Mr. Paul Robinson  
Project Manager  
Vantage Development, LLC  
P O Box 166  
Fyffe, AL

RE: Sewer Service Availability and Capacity for The Villas at Stanford, , a proposed 55+ elderly housing development including up to 74 units, located off of Sardis Street between South Main Street and Big Shanty Drive in Kennesaw, Georgia.

Mr. Robinson,

This letter is to confirm that sewer service is available from the Cobb County Water System for the above referenced property. The property is located within the City of Kennesaw. Cobb County Water System has enough capacity to service the proposed development.

If you have any questions or need additional information, please contact me at 770-419-6312.

Sincerely,

**COBB COUNTY WATER SYSTEM**

Tim Davidson  
Plan Review Engineer  
Engineering & Records Division



## COBB COUNTY WATER SYSTEM

Customer Services Facility  
660 South Cobb Drive  
Marietta, Georgia 30060-3105  
770-423-1000  
www.cobbwater.org

Stephen D. McCullers, P.E.  
Director

*Divisions*  
Business Services  
Customer Services  
Engineering & Records  
Stormwater Management  
System Maintenance  
Water Protection

June 7, 2012

Mr. Paul Robinson  
Project Manager  
Vantage Development, LLC  
P O Box 166  
Fyffe, AL

RE: Water Service Availability and Capacity for The Villas at Stanford, , a proposed 55+ elderly housing development including up to 74 units, located off of Sardis Street between South Main Street and Big Shanty Drive in Kennesaw, Georgia.

Mr. Robinson,

This letter is to confirm that water service is available from the Cobb County Water System for the above referenced property. The property is located within the City of Kennesaw. Cobb County Water System has enough capacity to service the proposed development.

If you have any questions or need additional information, please contact me at 770-419-6312.

Sincerely,

**COBB COUNTY WATER SYSTEM**

Tim Davidson  
Plan Review Engineer  
Engineering & Records Division



## COBB COUNTY WATER SYSTEM

Customer Services Facility  
660 South Cobb Drive  
Marietta, Georgia 30060-3105  
770-423-1000  
www.cobbwater.org

Stephen D. McCullers, P.E.  
*Director*

*Divisions*  
Business Services  
Customer Services  
Engineering & Records  
Stormwater Management  
System Maintenance  
Water Protection

May 25, 2012

The Vantage Group  
Attn: Jay Ronca  
1544 South Main Street  
Fyffe, AL 35971

Re: Proposed 72-unit apartment development  
Land Lot 138, 20th District, 2.6 +/- acres  
Noonday Basin, Noonday WRF

To Whom It May Concern:

Current Cobb County policy is to provide wastewater treatment capacity for approved zonings. CCWS will be able to provide capacity for your approved zoning classification with the following stipulations as set forth by the Cobb County Board of Commissioners:

→The developer has 150 days from this date to present plans for review and approval. Water and sewer fees must be paid and construction started within 90 days after plan approval.

→Should you fail to meet this stipulation, this letter of allocation is invalid and you must reapply to this department for capacity. No preference will be given and your request will be placed at the bottom of the request list.

→This letter is only valid for the project referenced. It is non-renewable, non-transferable, non-extendible and does not guarantee that sewer lines are at the site. Upgrades to existing water distribution and wastewater collection facilities may be required of the Developer if the demands of this proposal exceed the capacity limits of our existing or proposed facilities.

There is an existing 8-inch water main on Sardis Street available for use. A passing fire flow test will be required prior to approval of construction plans by this department.

Respectfully,

**COBB COUNTY WATER SYSTEM**

Tim Davidson  
Site Plan Review Engineer  
Engineering & Records Division



May 16, 2012

Mr. Paul Robinson  
Project Manager  
Vantage Development, LLC  
P O Box 166  
Fyffe, AL

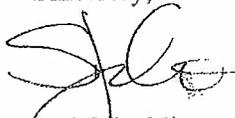
RE: Electricity Service Availability and Capacity for The Villas at Stanford, a proposed 55+ elderly housing development including up to 74 units, located off of Sardis Street between South Main Street and Big Shanty Drive in Kennesaw, Georgia.

Mr. Robinson,

This letter is to confirm that electricity is available and Georgia Power Company has the capacity to serve the above referenced property.

If you have any questions or need additional information, please contact me at (770) 801-5943.

Sincerely,



Josh Mauldin  
*Engineer*

**APPENDIX I:**  
**Author Credentials,**  
**Documentation of Qualification as**  
**an Environmental Professional**

# Thomas E. Driver, P.E.

## President/Senior Engineer

### Professional Memberships

- American Society of Civil Engineers
- National Society of Professional Engineers
- Georgia Society of Professional Engineers
- Consulting Engineers Council of Georgia
- American Consulting Engineers Council
- American Concrete Institute
- Society of American Military Engineers
- Association of General Contractors

### Education

- Bachelor of Civil Engineering, Auburn University, 1983

### Experience

Mr. Driver has over 28 years of experience in the fields of environmental and geotechnical engineering and construction quality control and assurance testing. Mr. Driver is the founder and President of Geotechnical & Environmental Consultants, Inc. and is responsible for the overall operation of the firm. In addition, Mr. Driver also assumes project duties and acts as Senior Engineer on numerous projects.

### Environmental Experience

- Senior Engineer responsible for over 1,000 Phase I/Phase II Environmental Site Assessments in Georgia.
- Project or Senior Engineer responsible for closure testing on over 100 UST removal projects throughout the southeast.
- Project or Senior Engineer responsible for preparation and implementation of Corrective Action Plans on over 50 confirmed UST contamination sites throughout Georgia and Alabama.
- Senior Engineer for design of SPCC and SWPPP plans throughout Georgia.

### Geotechnical & Construction Related Experience

- Experienced in geotechnical evaluations for both shallow and deep foundation systems and site development throughout the southeast.
- Experienced in all phases of construction quality assurance and quality control testing for projects ranging from small wood framed structures to multi-story buildings and large industrial facilities throughout the southeast.
- Experienced in all phases of NPDES stormwater sampling and testing for construction sites.

### Professional Registrations

- Alabama #16513
- Florida #67040
- Georgia #17394
- Kentucky #25290
- North Carolina #19125
- South Carolina #26429
- Tennessee #103642

### Continuing Education

- Hazwoper Training
- Inspecting Buildings for Asbestos Containing Materials
- Mold Assessment & Remediation in Buildings
- Landfill Design Short Course
- Leaking Underground Storage Tank Workshop
- Pile and Pier Analysis, Design and Installation
- Real Estate Transaction Environmental Evaluation Training
- SPCC Outreach Program Seminar
- NPDES Construction Permitting Qualified Personnel Training
- Site Analysis for On-Site Sewage Disposal
- Design of Roller Compacted Concrete Dams
- In-Situ Soil Improvement using Geopier Foundations
- Level 1B Certified Inspector for Georgia NPDES General Permit for Construction Activities

# GEC

## Solid Waste Experience

- CQA Engineer of record for numerous Subtitle D municipal solid waste landfill projects.
- Senior Engineer for over 20 Hydrogeological Site Assessments for Solid Waste Facilities in Georgia.
- Senior Engineer for design and implementation for over 20 Groundwater and/or Methane Monitoring plans in Georgia.
- CQA Engineer of record for numerous Landfill Closure projects in Georgia.
- Senior Engineer responsible for several groundwater and methane remediation plans for solid waste landfill facilities.

**F. Charles "Chip" Brooks, P.E.**  
**Project Engineer**

**Education**

- Bachelor of Science, Environmental Engineering, Mercer University, 2005

**Experience**

Mr. Brooks has six years experience in the environmental and geotechnical engineering consulting field. His experience includes managing projects in the environmental engineering field for preparation of remediation and implementation plans for leaking underground storage tank (LUST) sites, preparing Part A and Part B Corrective Action Plans (CAP), UST closure reports, and phase I and II environmental site assessments (ESAs). Field experience includes conducting Type II and Type III monitoring well installation, soil and groundwater sampling, slug testing, and other field activities. Performing groundwater modeling in order to determine contaminant plume migration patterns and alternate remedial goals for groundwater. Also, planning and coordinate underground injection of bioremediation and high-vacuum multi-phase extraction (MPE) events for removal of petroleum contamination from the soil and groundwater.

Mr. Brooks' geotechnical engineering experience includes the performance of subsurface evaluations (boring layout, drilling, soil classification, laboratory testing, report preparation and submittal). Construction services experience includes the evaluation of foundation excavations for soil bearing pressure, proofrolling of subgrade conditions, steel and rebar placement monitoring and inspection, and monitoring of concrete and masonry placement activities.

**Professional Registrations**

- Georgia 035020

**Professional Memberships**

- Georgia Society of Professional Engineers
- Society of American Military Engineers

**GEC**

## Education

- Bachelor of Arts, University of South Alabama, 1981

## Continuing Education

- Advanced Asbestos/Lead Seminar, March 24, 2011
- ASTM – Phase I & Phase II ESA's for Commercial Real Estate, June 13-15, 2006
- Annual 8-Hour Update of HAZPOWER Training – 1991-2010
- Asbestos Inspector/Planner Certificate Last Update May 2010
- Hazardous Waste Management: The Complete Course, August 1-2, 2002, Certification No. 71499
- Georgia Institute of Technology – Understanding Environmental
- Compliance Workshop November 12, 2002
- OSHA Hazard Communications Standard Training for Trainers, July 31, 2000, Certification No. 71498
- ISO 14001 Environmental Management Systems Lead Auditing, Course and Exam, September 1999, Certificate No. ET091399-09.
- Environmental Regulations in Georgia Seminar, January, 1997
- Underground Storage Tank Seminar, Georgia EPD, 1992, 1995
- 40-Hour Hazardous Waste Site Training, Certification 1991
- 40-Hour Environmental Site Assessment and Certification, 1993
- 24-Hour AHERA Asbestos Inspector Course and Certification, 1992

## Experience

Mr. Hadden has experience in both the geotechnical engineering and environmental fields, providing project management, construction quality control, and geotechnical & environmental consulting services. During the last 20 years, Mr. Hadden's environmental field experience has included Phase I and Phase II environmental site assessments, regulatory assessment and compliance auditing, field sampling and analysis by immunoassay, subsurface investigations to assess soil and groundwater contamination, construction monitoring for remediation projects, and asbestos surveys. He also has experience in underground storage tank removal, site assessment and remediation.

## Professional Memberships

- American Society of Testing & Materials (ASTM)
- Environmental Information Association – National
- Environmental Information Association – Georgia
- Georgia Affordable Housing Coalition

**GEC**

**APPENDIX J:  
Owner Environmental  
Questionnaire**

**GEC**

**OWNER ENVIRONMENTAL QUESTIONNAIRE  
& DISCLOSURE STATEMENT**

The questionnaire **MUST** be completed and signed by the current property owner, notarized in the spaces indicated and submitted with the application. The Owner must supply and attach evidence of ownership of the property, i.e. a deed. In preparing this document, the property owner must make a good faith effort to correctly answer all questions in this checklist. *Care should be taken to check the answers against whatever records are in the owner's possession.* If any of the following questions are answered in the affirmative, or if answers are unknown and/or qualified, the Environmental Professional must determine whether further inquiry is warranted. A gap in the Owner's knowledge about any item on the questionnaire below does not relieve the Environmental Professional from the requirement that the item be fully addressed in the Phase I Report. The property owner must fully document the reason for any affirmative answer, and provide the Environmental Professional with all appropriate supporting information.

Purchaser:	<u>VANTAGE DEVELOPMENT, LLC</u>
(Phone)	_____
Owner/seller:	<u>ARQUETTE DEVELOPMENT CORP.</u>
(Phone)	<u>850 233-0879</u>
Subject property:	<u>SARDIS ST., KENNESAW, GA, (SEE EXHIBIT "A")</u>

**QUESTIONNAIRE - PART A:**

1. Is the property, or any adjacent property, currently used for commercial, industrial or manufacturing purposes including, but not limited to dry cleaners and gas stations? Adjacent properties include those that border the site and properties across the street from the site.

Yes  No  Unknown

Provide the name and describe the type of business operating at the property:

Provide the name and type of business operating adjacently **north** of the subject property:

Provide the name and type of business operating adjacently **south** of the subject property:

Provide the name and type of business operating adjacently **east** of the subject property:

Provide the name and type of business operating adjacently **west** of the subject property:

2. Has the property or any adjacent property been used in the past for commercial, industrial or manufacturing purposes including, but not limited to, dry cleaners and gasoline stations?

Yes  No  Unknown (If yes, please describe including its specific use)

Owner:

Date(s):

Current Use of property:

Previous use of property to the **north**:

Previous use of the property to the **south**:

Previous use of the property to the **east**:

Previous use of the property to the **west**:

3. Are there any pesticides, automotive or industrial batteries, paints or other chemicals stored on the property or at the facility?

Yes  No  Unknown (If yes, please describe)

4. Are there currently any plastic or metal industrial drums (ranging from 5 to 55-gallons) located on the property or at the facility or were there in the past?

Yes  No  Unknown (If yes, please describe)

5. How and where were items identified in Questions #3 & #4 disposed ( if any of the specifics are unknown, provide names and present employers of people who may be able to provide additional information)?

6. Has fill dirt ever been brought onto the site?

Yes  No  Unknown (If yes, please describe)

7. Have any substances identified as hazardous, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials, including construction debris, been dumped above grade, buried and/or burned on the site?

Yes  No  Unknown (If yes, please describe including where and what disposal took place)

8. Is there any obvious stained soil, or other evidence of past waste disposal on the property?

Yes  No  Unknown (If yes, please describe including location on the property)

9. (a) Are there any above or underground storage tanks currently located on the property?

Yes  No  Unknown (If yes, please describe including location on the property. If no, skip to question #10)

- (b) Are the existing storage tanks empty, out of service, or closed?

Yes  No  Unknown (If yes, please describe including the date and name of the contractor used, and provide a copy of any report generated)

- (c) Have any tanks been removed? (If 'yes' provide information on when, give the name of the contractor used, and provide a copy of any report generated).

Yes  No  Unknown (If yes, please describe including date removed and name of contractor used, and provide a copy of any report generated)

10. Are there any prospective buyer(s) in the past that may have conducted an environmental assessment of the subject property.

Yes  No  Unknown (If yes, please provide names, addresses, and telephone numbers. Also, provide the name, address and telephone number of your Lender on this property. *Attach any past environmental reports you have, or provide information on how to obtain a copy of the report(s) if you do not have them.*

11. Does the property discharge waste water (other than storm water) directly to a ditch or stream on or adjacent to the property?

Yes  No  Unknown (If yes, please describe)

12. Is the property located near or in an area where conventional fuels (e.g. petroleum products), hazardous gases, (e.g. propane), and/or chemicals (e.g. benzene or hexane) of a flammable nature are stored?

Yes  No  Unknown (If yes, please describe)

13. Has there been any health complaints related to the indoor or outdoor air at? on the grounds of the property or any building located on the property?

Yes  No  Unknown (If yes, please describe)

14. Does the owner of the property or operator of the facility? have any knowledge of environmental liens or governmental notification (including information requests) relating to violations or potential violations of environmental laws with respect to the property or any facility located on the property?

Yes  No  Unknown (If yes, please describe)

SEE NO FURTHER ACTION LETTER

15. Has the owner of the property or operator of the facility been informed of the presence of hazardous substances or environmental violations with respect to the property or any facility located on the property?

Yes  No  Unknown (If yes, please describe)

SEE NO FURTHER ACTION LETTER

16. Are you aware of any environmental assessment of the property that indicated the presence of hazardous substances or petroleum products on, in, at, or under the property site?

Yes  No  Unknown (If yes, please describe)

SEE NO FURTHER ACTION LETTER

17. Are you aware of any environmental assessment of the subject property that has recommended further assessment or testing of the property?

Yes  No  Unknown (If yes, please describe)

SEE NO FURTHER ACTION LETTER

18. Are there any past, current, or pending lawsuits or administrative proceedings for alleged damages related to environmental issues or problems involving the property or any owner or tenant of the property?

Yes  No  Unknown (If yes, please describe)

19. Have pesticides, herbicides, or other agricultural chemicals ever been stored on, mixed on, or applied to the property?

Yes  No  Unknown (If yes, please describe)

**QUESTIONNAIRE - PART B:**

1. Are there any structures on the property site more than fifty (50) years old, or (is the property) located in a designated historic district?

Yes  No  Unknown (If yes, please describe & submit photographs of all interior rooms and exterior facades, and include a copy of the proposed rehabilitation work scope and a location map.)

2. Is the property site located in a 100-year floodplain?

Copy the portion of floodplain map indicating the site location. Attach a copy of the Flood Plain Map and include panel number on the copy.

Yes  No  Unknown (If yes, please describe below.)

3. Does the site have the potential to affect or be affected by?

Yes No

- |   |                          |                                     |
|---|--------------------------|-------------------------------------|
| a. Coastal Areas Protection and Management          | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b. Runway Clear Zones & Accident Potential Zones    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c. Endangered Species                               | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Farmland Protection                              | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e. Compatibility with Local Codes, Plans and Zoning | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f. Wetlands Designated Land                         | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g. Thermal & Explosive Hazards                      | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| h. Toxic Chemicals & Radioactive Materials          | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| i. Solid Waste Management                           | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| j. Local Zoning Plans Compatibility                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

(If yes to any, please describe.)

4. Is the site within 1,000 feet of a major road/highway/freeway (i.e. a roadway which experiences an average daily traffic count of 10,000 or greater)?

Yes  No  Unknown

If yes, the following must be completed:

- What is the name of the major road/highway/freeway? \_\_\_\_\_
- List the distance of any stop sign (not a traffic signal) that is less than 600 feet from the site \_\_\_\_\_
- What is the average speed of travel on this major road/highway/freeway?  
\_\_\_\_\_
- List the average number of automobiles for both directions during a 24-hour day \_\_\_\_\_
- List the average number of trucks for both directions during a 24-hour day  
\_\_\_\_\_

*Generally, much of this information can be obtained through the City/County Highway or Transportation Department*

5. Is the site within 3,000 feet of a railroad?

Yes  No  Unknown

If yes, the following must be completed:

- What is the name of the railway operating on this line? CSX \_\_\_\_\_
- List the average number of trains for both directions during a 24-hour day  
\_\_\_\_\_?
- List the average number of diesel locomotives per train \_\_\_\_\_?
- List the average number of railway cars per train \_\_\_\_\_?
- List the average train speed \_\_\_\_\_?
- Is the track welded or bolted? \_\_\_\_\_?
- Is the site near a grade crossing that requires prolonged use of the train's horn?  Yes  No (If no, skip to question # 6)
- How far from the grade crossing are the whistle posts located? \_\_\_\_\_

Generally, much of this information can be obtained by contacting the Supervisor of Customer Relations and/or the Engineering Department for the railway

6. Is the site within 15 miles of a military airport?

Yes  No  Unknown (If yes, please attach a copy of the airport's current noise contour information.) *This information is available for most military airports and can be generally obtained by contacting the Military Agency in Charge of Airport Operations.* If noise contours are not available, please obtain the following:

- List the average number of nighttime jet operations (10 p.m.-7 a.m.)  
\_\_\_\_\_
- List the average number of daytime jet operations (7 a.m. – 10 p.m.)  
\_\_\_\_\_
- List the flight paths of the major runways  
\_\_\_\_\_

7. Is the site within 5 miles of a private/commercial airport or airfield?

Yes  No  Unknown (If yes, please attach a copy of the airport's current noise contour information. This information is available for most private/commercial airports and can be obtained by contacting the FAA Control Tower or Airport Operations. If noise contours are not available, please obtain the following information)

- List the average number of nighttime jet operations (10 p.m. - 7 a.m.)  
\_\_\_\_\_
- List the average number of daytime jet operations (7 a.m. – 10 p.m.)  
\_\_\_\_\_
- List the flight paths of the major runways  
\_\_\_\_\_

**QUESTIONNAIRE - PART C:**

Valuation Reduction: Relationship of the purchase price to the fair market value of the property, if it were not contaminated:

1. Have you identified the type of property transaction (for example-- sale, purchase, ground lease, etc.) to the Environmental Professional?

Yes  No (If yes, please describe)

OPTION TO PURCHASE

2. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

Yes  No (If no, have you considered whether the lower purchase prices is because contamination is known or believed to be present at the property?)

CERTIFICATION

This questionnaire above was completed by:

Owner/Developer Name: BONNI P. THOMPSON

Relationship to Site: OWNER

Address: P.O. BOX 18349, P.C. BEACH, FL. 32417

E-mail Address: ADCHOME@COMCAST.NET

Phone Number: (850) 233-0879

Date of Completion: MAY 30, 2012

I certify to the best of my knowledge and belief that the above statements and facts submitted are true, accurate and complete.

Signed, sealed and delivered this 31 day of May, 2012, in the Presence of:

*[Handwritten signature]*

Witness



By:

*[Handwritten signature]*

Property Owner

*Lisa M. Carstens*

*personally known*

Notary Public

Name

My commission Expires on:

\_\_\_\_\_

\_\_\_\_\_

Title

(Notarial Seal)

**APPENDIX K:**  
**Property Log and Information**  
**Checklist**

**GEC**

## PROPERTY LOG AND INFORMATION CHECKLIST

This form **MUST** be completed by the Qualified Environmental Professional who performed the Phase I and/or Phase II Reports. All entries must be fully documented and explained in the environmental reports. This form, together with all supporting documentation relating to the Phase I, must be submitted to DCA before any application can be accepted for processing.

### PROPERTY LOG

Property Address: **Proposed The Villas at Stanford  
Sardis Street  
Kennesaw, Georgia**

Developer's Name and Address: **The Villas at Stanford, L.P.  
c/o The Vantage Group  
1544 South Main Street  
Fyffe, Alabama 35971  
Attn: Mr. Jay Ronca**

Developer's e-mail Address: **jronca@thevantagegroup.biz**

Developer's Telephone Number: **(256) 623-3813**

Qualified Environmental Professional's Name: **Robert T. Hadden**

Qualified Environmental Professional's Telephone Number and e-mail address:  
**(478) 757-1606 & bhadden@geconsultants.com**

Environmental Consulting Firm's Name and Address:  
**Geotechnical & Environmental Consultants, Inc.  
514 Hillcrest Industrial Boulevard  
Macon, Georgia 31204-3472**

Date Phase I Environmental Site Assessment Completed: **May 30, 2012**

#### Summary of Phase I Results:

Based on the findings presented in this report, GEC found no obvious environmental concerns or risks associated with the subject property; therefore, we recommend no further study of the site at this time. **See full report for details.**

## INFORMATION CHECKLIST

Check [√] any information sources used to perform the Phase I Review.

1. Overall Property Description

- Building Specifications
- Zoning or Land Use Maps
- Aerial Photos (e.g., Sanborn)
- List of Commercial Tenants On-Site
- Title History
- Site Survey
- Verification of Public Water and Sewer
- Interviews with Local Fire, Health, Land Use or Environmental Officials
- Interviews with Builder, and/or Property Manager
- Review of records of local, state and federal regulatory agencies
- Review of adjacent properties
- Other (Specify): Schematic Site Plan

2. Asbestos

- Dated Building Construction or Rehabilitation Specifications
- Engineer's/Consultant's Asbestos Report
- Other (Specify): The site is a previously developed tract of land. Reviewed Asbestos Abatement Monitoring and Clearance Testing report

3. Polychlorinated Biphenyls

- Utility Transformer Records
- Site Survey of Transformers: site reconnaissance
- Site Soil and Groundwater PCB Test Results
- Other (Specify)

4. Radon
- Water Utility Records
  - Gas Utility Records
  - On-Site Radon Test Results
  - Other (Specify) Other (**EPA Publication 402-R-93-030: EPA's Radon Zones Map for Georgia, September, 1993 & EDR environmental database report**)
5. Underground Storage Tanks
- Oil, Motor Fuel and Waste Oil Systems Reports, EPD, LUST & ERNS Records
  - CERCLIS/RCRIS Results of Neighborhood search (within radius of one mile)
  - Site Soil and Groundwater Tests
  - Site Tank Survey
  - Other (Specify): site reconnaissance
6. Waste Sites
- CERCLIS/RCRIS Results of Neighborhood search (within radius of one mile)
  - State EPD site lists for neighborhoods (within radius of one mile)
  - Federal Facilities Docket
  - Site Soil and Groundwater Test Results
  - Other (Specify)
7. Lead Based Paint
- Lead Paint Survey
  - Certification/Compliance Records
  - Site Soil Test Results
  - Other (Specify)

8. Additional Hazards

- Urea Formaldehyde Foam Insulation Survey
- Interior Air Test Results
- Lead in Drinking Water Test Results (reviewed annual water quality report)
- Mold Inspection Results
- Other (Specify)

Checklist completed by: 

Name (Type or Print): **Robert T. Hadden**

Date: **May 30, 2012**

**APPENDIX L:  
Proof of Insurance**

**GEC**



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
3/28/2012

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Griffin Insurance Agency 506 West Ward St.  Douglas GA 31533		<b>CONTACT NAME:</b> Renee Mizell <b>PHONE (A/C No. Ext):</b> (912) 384-1003 <b>FAX (A/C No.):</b> (912) 384-8014 <b>E-MAIL ADDRESS:</b> renee@griffinagency.com	
<b>INSURED</b> Geotechnical & Environmental Consultants Inc & 514 Hillcrest Industrial Blvd  Macon GA 31204		<b>INSURER(S) AFFORDING COVERAGE</b> INSURER A: OWNERS INSURANCE COMPANY INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	

**COVERAGES** CERTIFICATE NUMBER: CL1113000746 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	X	X	47-849355	12/1/2011	12/1/2012	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> DOC	X	X	47-84935501	12/1/2011	12/1/2012	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$	X		47-84935500	12/1/2011	12/1/2012	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		X	48-084348	12/1/2011	12/1/2012	WC STATU-TORY LIMITS <input checked="" type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Installation			47-849355	12/1/2011	12/1/2015	\$500 ded 25,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
 CGL provides blanket additional insured by contract for both premises and products and completed operations and blanket waiver of subrogation.  
 Pollution Liability is excluded from the CGL and the umbrella.  
 Blanket waiver of subrogation for workers compensation applies.  
 30 day notice of cancellation applies.

GEC Project No. 120392.240 -- Villas at Stanford

**CERTIFICATE HOLDER****CANCELLATION**

The Georgia Housing & Finance Authority  
 Dept of Community Affairs  
 60 Executive Park S  
 Atlanta, GA 30329

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Renee Mizell/RENEE

*Angela R. Mingle*



# CERTIFICATE OF LIABILITY INSURANCE

OP ID: MD

DATE (MM/DD/YYYY)

03/28/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Paragon Insurance Service Inc. 2945 Horizon Park Drive Ste C Suwanee, GA 30024	770-831-5669	CONTACT NAME: <b>Gayle Holcomb</b>	
	770-831-3363	PHONE (A/C No, Ext): 770-831-5669 FAX (A/C, No): 770-831-3363	
E-MAIL ADDRESS: <b>GHolcomb@Paragon-Ins.com</b>			
PRODUCER CUSTOMER ID #: <b>GEOTE-1</b>			
INSURED <b>Geotechnical &amp; Environmental Consultants, Inc. 514 Hillcrest Industrial Blvd Macon, GA 31204</b>	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : <b>Endurance American Spec A XV</b>		<b>41718</b>
	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		

## COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER: 1

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY						EACH OCCURRENCE \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence) \$
	<input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR						MED EXP (Any one person) \$
							PERSONAL & ADV INJURY \$
							GENERAL AGGREGATE \$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$
	<input type="checkbox"/> SCHEDULED AUTOS						PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS						\$
	<input type="checkbox"/> NON-OWNED AUTOS						\$
	UMBRELLA LIAB						EACH OCCURRENCE \$
	<input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR						AGGREGATE \$
	<input type="checkbox"/> DEDUCTIBLE						\$
	<input type="checkbox"/> RETENTION \$						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATUTORY LIMITS OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$
A	Cont Pollution			ECC101004342-03	12/01/11	12/01/12	Claim/Agg 2,000,000
A	Professional Liab			ECC101004342-03	12/01/11	12/01/12	Claim/Agg 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Pollution & Professional Claims Made Retro Date 12/1/99, \$50,000 Deds apply.

Pollution & Professional are subject to the \$2,000,000 policy aggregate, these are not separate limits.

\*This certificate is revised and replaces any other certificates previously issued.\* \*\*SEE ATTACHED HOLDER NOTES PAGE\*\*

GEC Project No. 120392.240 -- Villas at Stanford

## CERTIFICATE HOLDER

## CANCELLATION

<p style="text-align: right;">GEORG90</p> <p>The Georgia Housing and Finance Authority 60 Executive Park South, NE Atlanta, GA 30329-2231</p>	<p>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.</p> <p>AUTHORIZED REPRESENTATIVE</p> <p style="text-align: right;"><i>Deborah Gayle Holcomb</i></p>
---	---

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**NOTEPAD:**

HOLDER CODE **GEORG90**  
INSURED'S NAME **Geotechnical & Environmental**

**GEOTE-1**  
OP ID: MD

PAGE 2  
DATE **03/28/12**

Notwithstanding the appropriate provision of this policy, in the event cancellation of this policy is instigated by the Company for any reason except non payment of premium, the Company will provide 30 days advance notice of such cancellation to any person organization(s) whom the Named Insured agrees, in a written contract, to advance notice of cancellation endorsement #17 form # FEI-511-ECC-0708 attached to the policy, and per all terms and conditions of the policy.

**APPENDIX M:  
Letters of Reference**

**GEC**

# STATE BANK & Trust Company

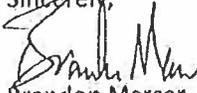
April 2, 2012

To Whom It May Concern:

Please allow this letter to serve as a reference for Geotechnical and Environmental Consultants, Inc. (GEC), with whom we enjoy an excellent relationship. We have the highest level of confidence in the work prepared by GEC. They are the only provider of geotechnical and environmental services that we recommend here in the Middle Georgia area.

The company always handles its affairs in a professional and timely manner. We are happy to have partnered with GEC on prior and current jobs and look forward to doing so again in the future. If I can be of any assistance answering any questions, please contact me at 478-796-6479.

Sincerely,



Brandon Mercer  
Senior Vice President



March 27, 2012

To Whom It May Concern  
c/o Thomas E. Driver, P.E., President  
Geotechnical & Environmental Consultants, Inc.  
514 Hillcrest Industrial Blvd.  
Macon, GA 31204

Gentleman:

This letter is written as a letter of recommendation for Tom Driver and Geotechnical & Environmental Consultants, Inc. NewTown Macon has worked for more than 10 years and on numerous property transactions. The work by GEC that I have observed included environmental assessment, soil, ground and water sampling, contaminated property assessments and remediation plans.

I have found that the work of GEC is very professional, complete and timely. I recommend GEC for any environmental engagement. Please let me know if you have further questions.

Sincerely,

C. Michael Ford  
President and CEO



ARTHUR P. BARRY, III  
Associate Broker / Partner

COLDWELL BANKER COMMERCIAL  
EBERHARDT & BARRY  
990 RIVERSIDE DRIVE  
MACON, GA 31201  
BUS. (478) 746-8171  
TOLL FREE (800) 926-0990  
FAX (478) 746-1362  
abarry@coldwellbankercommercial.com

March 29, 2012

To Whom It May Concern  
c/o Thomas E. Driver, P.E., President,  
Geotechnical & Environmental Consultants, Inc.  
514 Hillcrest Industrial Blvd.  
Macon, Georgia 31204

Gentlemen:

I write this letter of recommendation for Tom Driver and his company, Geotechnical & Environmental Consultants, Inc. because I have worked with Tom and others at GEC for a number of years in connection with environmental issues for various clients. The work by GEC that I have observed has included environmental assessments of land, soil and groundwater sampling and analysis for various purposes, geotechnical work, contaminated properties assessment and remediation, and other environmental work. Both my clients and I have found Tom Driver and the other employees at GEC to be professionals in their field. Their reports and advice through the years have been insightful and accurate. The level of quality service is high in every regard to GEC. For this reason, Tom Driver and GEC are the only environmental consultant I recommend to my clients.

If you have any further questions concerning my experience with Tom and GEC, please contact me.

Sincerely,

  
Arthur P. Barry III, SIOR  
Associate Broker/Partner

APB/mc

**APPENDIX N:**  
**Environmental Certification**

**GEC**

**ENVIRONMENTAL CERTIFICATION**

The undersigned being first duly sworn on oath do certify to the Georgia Department of Community Affairs (DCA)/Georgia Housing and Finance Authority (GHFA) that the statements contained in this certification are true and correct. The undersigned also acknowledge that deviations from the requirements contained in the certification and checklist could result in scoring deductions (Page, Section and/or Appendix numbers must be included for each item).

Project Name: Proposed Villas at Stanford

Project Location: Sardis Street, Kennesaw, Cobb County, Georgia

**Page/Sec./App.**

1. The Phase I Report for the above referenced project has been prepared according to the applicable DCA required format. 1-38/A-U
2. The Phase I Report and/or update was performed under the supervision of an "Environmental Professional" as defined in 40 C.F.R. § 312.10(b) (hereinafter referred to as an Environmental Professional). *Résumés describing the qualifications of all personnel involved with the Phase I environmental site assessment must be included.* 6-7/2.4/I
3. The Environmental Professional is not affiliated with the Owner/developer or a buyer or seller of the project. 1-3/1.0
4. The Phase I Report and/or update was prepared less than 180 days prior to Application submission and within 30 days of the site reconnaissance. In addition, the date of the Report appears on the cover page of the Report. 22/5.0/B
5. The Georgia Housing and Finance Authority and DCA have the right to rely upon the Phase I and/or Phase II Report prepared for the property in the same way as the Owner, client and any other authorized users of the Report(s). 7/2.6
6. The Phase I Report was prepared in accordance with the applicable ASTM and DCA standards. 1-3&5-6/1.0&2.2
7. The Environmental Professional employed by the consulting firm has supervised the performance of the Phase I, reviewed, signed and stamped both the Phase I and Phase II Reports (if applicable) and any amendments, addenda and updates thereto. N
8. The Environmental Professional has included a comprehensive historical review of the subject property back to 1940 or the property's first developed use, whichever is earlier. 28/5.5/D
9. The Phase I includes the professional opinion of the Environmental Professional as to any potential environmental risks and as to any recognized environmental conditions identified during the comprehensive historical review. 33/6.0&7.0
10. The Environmental Professional has:
  - \* Commercial General Liability insurance, total combined single limits of \$1,000,000.00 per occurrence and \$2,000,000.00 in the aggregate; *and* L
  - \* Professional Errors and Omissions Insurance with limits of \$2,000,000.00 each claim and \$2,000,000.00 in the aggregate with coverage extended to include third party liability for death, bodily injury, diminution of value of property and property damage. L
  - \* Pollution Liability Insurance with limits of \$2,000,000.00 each claim and \$2,000,000.00 in the aggregate. L

Project Name: Proposed Villas at Stanford

Project Location: Sardis Street, Kennesaw, Cobb County GA

**Page/Sec./App.**

11. The Georgia Housing and Finance Authority and DCA have been named as 1) additional insureds and 2) certificate holders on the Accord 25 form (the required insurance certificate) for the commercial liability insurance policy. L

12. A 30 day cancellation period is included on the insurance certificate. L

13. The Owner Environmental Questionnaire & Disclosure Statement has been completed by the current Owner of the property and included in the Phase I Report. J

14. The completed Phase I Documentation: DCA Property Log and Information Checklist has been completed by the Environmental Professional and included in the Phase I Report. K

15. If required, the HOME and HUD Environmental Questionnaire is completed and included in the Phase I Report (includes projects applying for HOME funds and projects with other HUD funding sources listed, including PBRA). R

16. If, in accordance with Section II.B.5.b. of the DCA standards, a noise assessment is required, then the Report includes a noise assessment which was completed in accordance with the HUD Noise Assessment Guidelines ("NAG") and 24 C.F.R § 51.100 *et seq.* (applies to all projects, whether or not HUD funds are included in the financial structure). 5.4.22/F

17. In cases of elevated noise levels, the Report includes a noise attenuation plan completed in accordance with the HUD Noise Assessment Guidelines ("NAG") and 24 C.F.R § 51.100 *et seq.* (applies to all projects, whether or not HUD funds are included in the financial structure). F

18. The Environmental Consultant Signature Page has been signed by the Environmental Professional, the Principal of the Consultant, and the Professional Engineer or Professional Geologist and has been stamped by the Professional Engineer or Professional Geologist. The Environmental Consultant Signature Page is included in the Phase I Report and/or Phase II Report. Second page of report

\_\_\_\_\_  
Applicant Signature Date

  \_\_\_\_\_  
Environmental Professional Signature & Stamp Date

**APPENDIX O:**  
**Consumer Confidence Report on**  
**Water Quality**

**GEC**

## Why This Report?

The Cobb County Water System (CCWS) is committed to delivering to you, our customer, water that meets or exceeds federal and state quality standards. We are pleased that this 2012 Water Quality Report shows we are doing that. Our priority is to deliver safe water to your home or business each day. We make significant efforts to protect our water resources for both existing needs and future generations.

The following pages provide the summary results of a continuous drinking water testing program. This report covers the calendar year 2011. Important definitions are provided to help clarify the information further. The CCWS's Water Quality Report is also posted on our Web site at [www.cobbwater.org/WaterReport.html](http://www.cobbwater.org/WaterReport.html). For additional information contact our Customer Service Division at 770.423.1000.

The bottom line is we provide safe, quality drinking water to you 24 hours a day, seven days a week, 365 days a year because we know that it is vital to the health and well-being of our community.

## Where Does My Water Come From?

You are a customer of the CCWS, an agency of Cobb County government. We distribute treated water to more than 176,000 customer accounts representing about 720,000 residents in the CCWS's service area, and treat collected wastewater in a manner safe for your families and the environment.

The Water System purchases water from the Cobb County-Marietta Water Authority (CCMWA), a utility providing treated drinking water on a wholesale basis to cities and counties in the region. CCMWA treats drinking water using state-of-the-art equipment and ensures water quality through continued monitoring and testing.

The CCMWA was created by the Georgia Legislature in 1951 for the purpose of providing potable water to Cobb County. The CCMWA has two surface water sources supplying two treatment facilities. The Wyckoff Treatment Facility is supplied from Lake Allatoona, a Corps of Engineers impoundment in north Cobb, south Cherokee and south Bartow counties. The Quarles Treatment Facility withdraws water from the Chattahoochee River. After treatment at these plants, water is transported to various areas within the County where it is fed into CCWS distribution lines and finally to your home or business.

The Cobb County-Marietta Water Authority and the Atlanta Regional Commission completed a source water assessment itemizing potential sources of water pollution to our surface drinking water supplies. This information can help you understand the potential for contamination of your drinking water supplies and can be used to prioritize the need for protecting drinking water sources.

A Source Water Assessment is a study and report which provides the following:

- a description of the area of land that contributes the raw water used for drinking water,
- a list of potential sources of contamination to drinking water supplies, and
- a discussion of the drinking water supply's susceptibility to contamination.

For more information on this project, visit the Source Water Assessment Web site at [www.atlantaregional.com/environment/water/source-water-assessment-project](http://www.atlantaregional.com/environment/water/source-water-assessment-project) or request information by mail from the ARC:

Attn: Source Water Assessment  
Environmental Planning Division  
Atlanta Regional Commission  
40 Courtland Street, NE  
Atlanta, GA 30303

## How Is The Water Treated?

The process begins by pumping untreated water from the Chattahoochee River or Lake Allatoona into sedimentation basins where large particles are removed and the water is disinfected.

The water is then directed to a process called flocculation which is a gentle mixing of the water with a coagulant. This allows particles, called *floc*, to form and settle, clarifying the water. Next, the water is put through a filtration system where water flows through sand filters trapping even smaller particles.

After filtration, chemicals are added for final disinfection. Except for chlorine and fluoride, every chemical used in the treatment process is removed before the finished water is distributed to you.

## Why Are there Contaminants?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants** such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants** such as salts and metals which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides** which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- Organic chemical contaminants** including synthetic (man-made) and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gasoline stations, urban storm water runoff, and septic systems.
- Radioactive contaminants** which can be naturally-occurring or be the result of oil and gas production and mining activities.

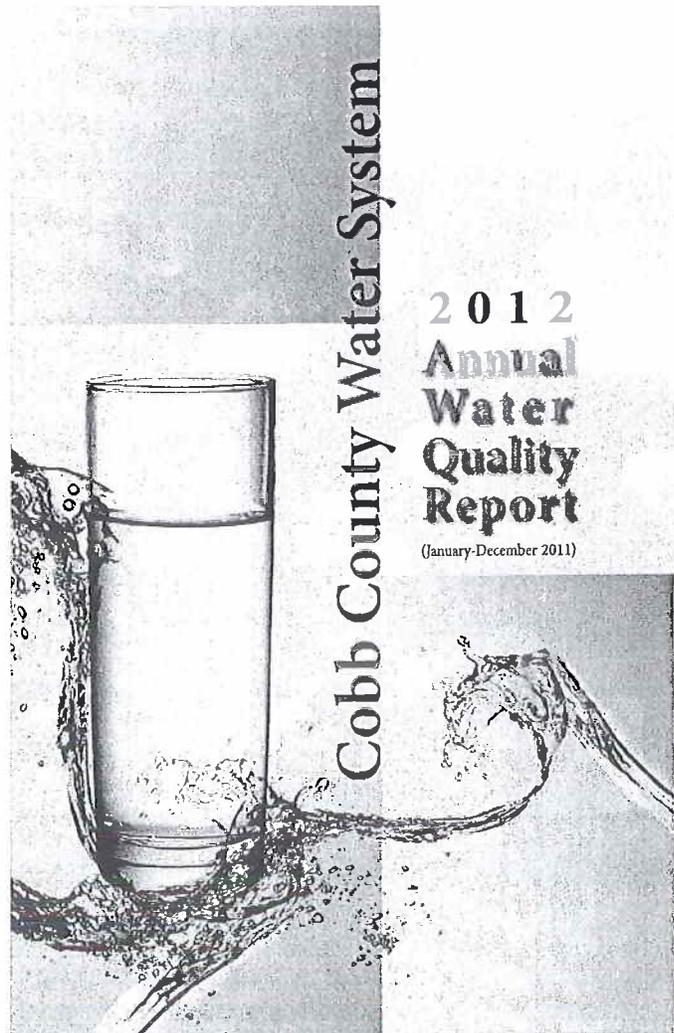
The U.S. Environmental Protection Agency (EPA) has set treatment methods to reduce contaminants to levels that protect human health. CCMWA's laboratory continuously monitors water quality to be sure it is properly treated to EPA standards. In addition, over 220 water samples throughout the CCWS distribution system are taken each month and tested. To ensure tap water is safe to drink, EPA prescribes limits on the amount of

Distribution: May 2012

## Annual Water Quality Report

(January - December 2011)

Cobb County Water System  
Water Quality Report  
660 South Cobb Drive  
Marietta, Georgia 30060-3113



certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's *Safe Drinking Water Hotline* at 1.800.426.4791.

### What Are Cryptosporidium?

Cryptosporidium are microbial pathogens found in surface water throughout the United States. Testing is currently being performed on the untreated water from the intakes located at the Chattahoochee River and Lake Allatoona for the presence of Cryptosporidium. The results for 2011 are listed below.

Location	Date	Results	Units
Chattahoochee River	Jul - Dec 2011	0	Organisms/sample
Lake Allatoona	Jul - Dec 2011	0	Organisms/sample

### Lead In Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The CCWS is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds or more before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

### Health Related Concerns

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people, and infants can be particularly at risk. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the EPA's *Safe Drinking Water Hotline* at 1.800.426.4791.

### How To Read The Drinking Water Analysis Table

The table shows the results of our water quality analyses. Every contaminant regulated by EPA that was detected in the water, even in the minutest traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health (MCLG), the usual sources of such contamination, footnotes explaining our finding, and a key to units of measurement. The definitions in the next section are important.

Drinking Water Analysis Table							
(The data presented in this report are furnished by the CCWSA and are from the most recent testing done in accordance with regulations.)							
EPA Regulated Inorganic Substances or Contaminants							
Substance (Unit)	Date Tested	MCL	MCLG	Detected Level	Range	Major Sources	Violation
Fluoride <sup>1</sup> (ppm)	2011	4	4	0.94	0.0 - 0.94	Erosion of natural deposits; water additive which promotes strong teeth	NO
Lead <sup>1</sup> (ppb)	2011	AL=15	0	2.5	n/a	Corrosion of household plumbing systems	NO
Copper <sup>1</sup> (ppm)	2011	AL=1.3	0	0.027	n/a	Corrosion of household plumbing systems	NO
Nitrate/Nitrite <sup>4</sup> (ppm)	2011	10	10	0.89	0.27 - 0.89	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits	NO
Notes: <sup>1</sup> Fluoride is added to water to help in the prevention of dental cavities in children. <sup>2</sup> Of the 50 sites tested, 1 exceeded the action level. The next round of testing is due in 2014. <sup>3</sup> Of the 50 sites tested none exceeded the action level. The next round of testing is due in 2014. <sup>4</sup> Nitrate and Nitrite are measured together.							
Disinfection By-Products, By-Product Precursors and Disinfectant Residuals							
THMs (Total Trihalomethanes) (ppb)	2011	80	0	37.0	15.2 - 79.3 <sup>1</sup>	By-products of drinking water disinfection	NO
HAAs (Haloacetic Acids) (ppb)	2011	60	0	21.0	8.3 - 49.6 <sup>1</sup>	By-products of drinking water disinfection	NO
TOC (Total Organic Carbon) (ppm)	2011	TT	n/a	2.2	1.0 - 2.2	Decay of organic matter in the water withdrawn from sources such as lakes and streams	NO
Chlorite (ppm)	2011	1.0	0.8	0.43	0.05 - 0.43	By-product of drinking water disinfection	NO
Chlorine <sup>2</sup> (ppm)	2011	MRDL=4	MRDL=4	2.2	HDL= 2.2	Drinking water disinfectant	NO
Note: <sup>1</sup> This contaminant is regulated by the average concentration over a period of a year.							
Microbiological Contaminants							
Total coliform bacteria	06/2011 08/2011 10/2011	<5% positive samples (monthly)	0% positive samples (monthly)	0.45% <sup>1</sup> 0.45% <sup>1</sup> 0.88% <sup>2</sup>	Highest Detected 0.88%	Naturally present in environment	NO
Notes: <sup>1</sup> 1 positive sample out of 223 samples tested during the month. <sup>2</sup> 2 positive samples out of 226 samples tested during the month.							
Turbidity							
Substance	Sample Date	MCL	MCLG	Level Found	Range	Typical Source	Violation
Turbidity <sup>3</sup>	2011	TT = 1 NTU	0	0.18	n/a	Soil runoff	NO
		TT = percentage of samples < 0.3 NTU		100%	n/a		
Note: <sup>3</sup> Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.							

### Definitions

**MCL - Maximum Contaminant Level:** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal:** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**AL - Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must implement.

**TT - Treatment Technique:** A required process intended to reduce the level of a contaminant in drinking water.

**MRDL - Maximum Residual Disinfectant Level:** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbiological contaminants.

**MRDLG - Maximum Residual Disinfectant Level Goal:** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**NTU - Nephelometric Turbidity Unit:** Measures the cloudiness of water.

**ppm - parts per million or milligrams per liter (mg/L),** i.e., one penny in \$10,000.

**ppb - parts per billion or micrograms per liter (µg/L),** i.e., one penny in \$10,000,000.

**n/a - not applicable.**

**n/d - not detected.**

**BDL - Below detection limits.**

### Questions?

**Contact Customer Services**  
770.423.1000

**En Espanol**  
Este informe contiene informacion muy importante. Traduscalo o hable con un amigo quen lo entienda bien.

**Send Written Correspondence:**

Cobb County Water System  
Water Quality Report  
660 South Cobb Drive  
Marietta, GA 30060  
770.419.6478

### Cobb County Water System

The Cobb County Water System provides retail water service to households and businesses in unincorporated Cobb County and the cities of Acworth and Kennesaw, as well as wastewater treatment service to all of Cobb County and portions of surrounding counties. We also maintain dedicated stormwater infrastructure in unincorporated Cobb County.

The Water System recognizes that protecting the environment in an urbanizing setting is important and requires a comprehensive approach. Our nationally recognized public outreach programs promote respect for the environment by educating our community about the connection between behavior and the quality/quantity of our water resources.

### Cobb Water's education programs include:

- Watershed Stewardship 770.528.1482
- Backflow Prevention 770.528.3343
- Grease Management 770.419.6430
- Partners in Education 770.419.6295
- Stormwater Management 770.419.6435
- Water Efficiency 770.419.6244
- CMOM Program 770.419.6359

To learn more about CCWS and these programs, please visit our Web sites at [cobbwater.org](http://cobbwater.org), [cobbstreams.org](http://cobbstreams.org), and [cmom.cobbcountyga.gov](http://cmom.cobbcountyga.gov).

### Other Important Contacts:

- Main Customer Service Line Call Center 770.423.1000
- 24/7 Water Restriction Information & Reporting Line Call to leave a message 770.419.6278
- 24/7 Emergency Service Emergency Dispatch 770.419.6201

**APPENDIX P:**  
**Endangered Species Documentation**

**GEC**



## WILDLIFE RESOURCES DIVISION

### Known occurrences of special concern plants, animals and natural communities Cobb County — Fips Code: 13067

Find details for these species at [Georgia Rare Species and Natural Community Data](#) and [NatureServe Explorer](#).

[US] indicates species with federal status (Protected or Candidate).  
Species that are federally protected in Georgia are also state protected.  
[GA] indicates Georgia protected species.  
 link to species profile on our site (not available for all species).  
 link to report for element on NatureServe Explorer (only available for animals and plants).

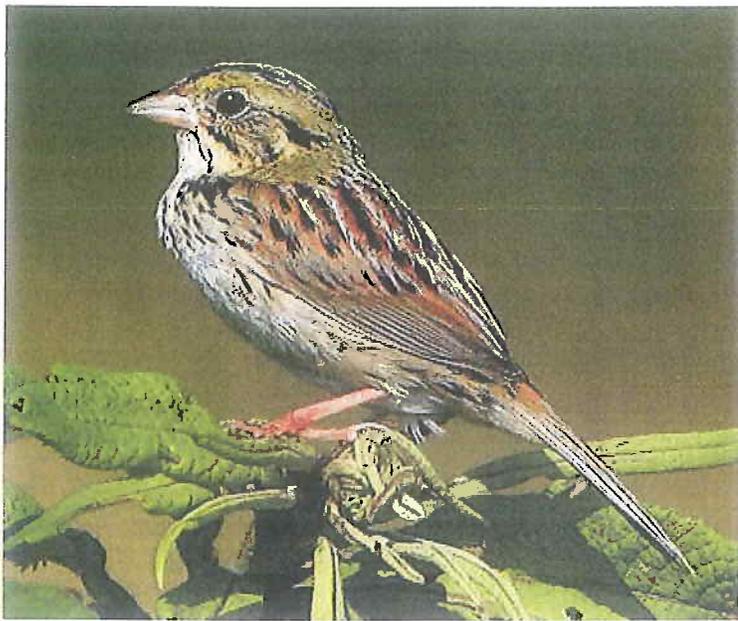
#### Animal Occurrences

- Ammodramus henslowii* (Henslow's Sparrow) [GA] - bird
- Cambarus howardi* (Chattahoochee Crayfish) [GA] - crustacean
- Elliptio arctata* (Delicate Spike) [GA] - mollusk
- Etheostoma scotti* (Cherokee Darter) [US] - fish
- Hemidactylium scutatum* (Four-toed Salamander) - amphibian
- Medionidus penicillatus* (Gulf Moccasinshell) [US] - mollusk
- Notropis hypsilepis* (Highscale Shiner) [GA] - fish
- Nyctanassa violacea* (Yellow-crowned Night-heron) - bird
- Pituophis melanoleucus melanoleucus* (Northern Pine Snake) - reptile
- Plethodon websteri* (Webster's Salamander) - amphibian
- Quadrula infucata* (Sculptured Pigtoe) - mollusk

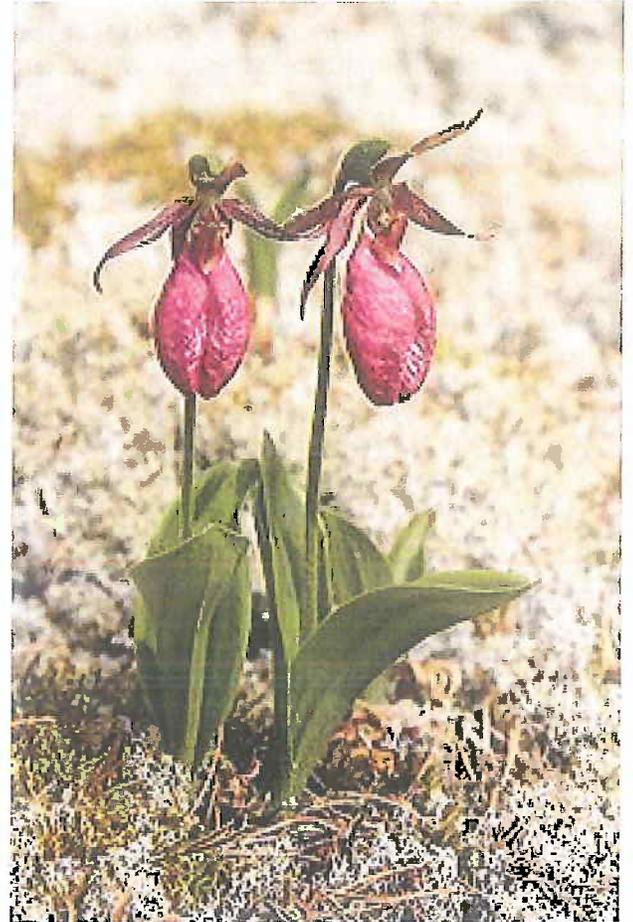
#### Plant Occurrences

- Arabis missouriensis* (Missouri Rockcress)
- Calystegia catesbeiana* ssp. *sericata* (Silky Bindweed)
- Cypripedium acaule* (Pink Ladyslipper) [GA]
- Draba aprica* (Sun-loving Draba) [GA]
- Melanthium latifolium* (Broadleaf Bunchflower)
- Nestronia umbellula* (Indian Olive) [GA]
- Platanthera integrilabia* (Monkeyface Orchid) [US]
- Pycnanthemum curvipes* (Stone Mountain Mint)
- Rhus michauxii* (Dwarf Sumac) [US]
- Schisandra glabra* (Bay Star-vine) [GA]
- Symphotrichum georgianum* (Georgia Aster) [US]
- Trillium lancifolium* (Lanceleaf Trillium)
- Zanthoxylum americanum* (Northern Prickly-ash)

Generated from Georgia DNR's NatureServe Biotics conservation database on October 12, 2011



Henslow's Sparrow



Pink Ladyslipper



Sun-loving Draba



Indian Olive



Dwarf Sumac

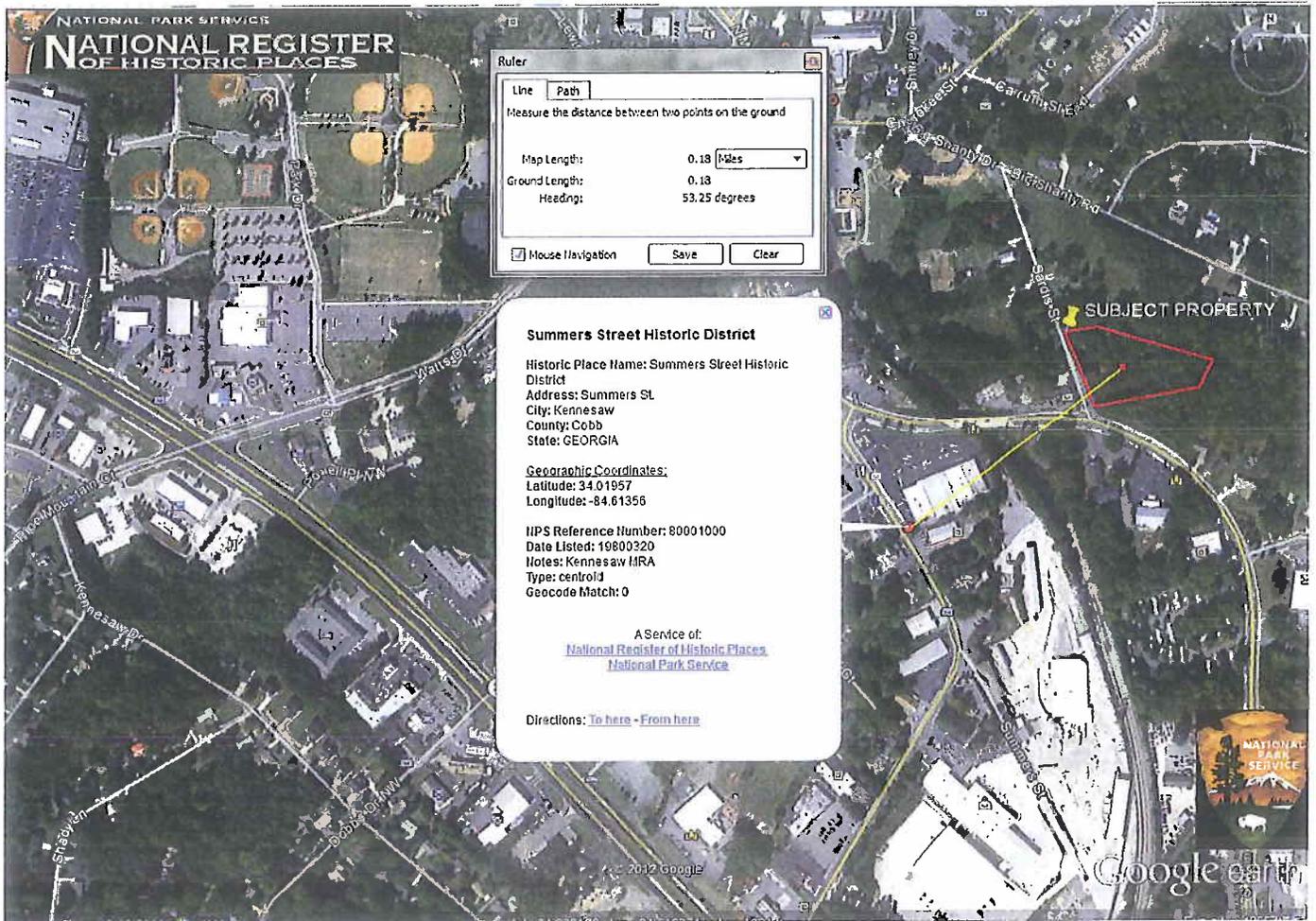


Bay Star-vine

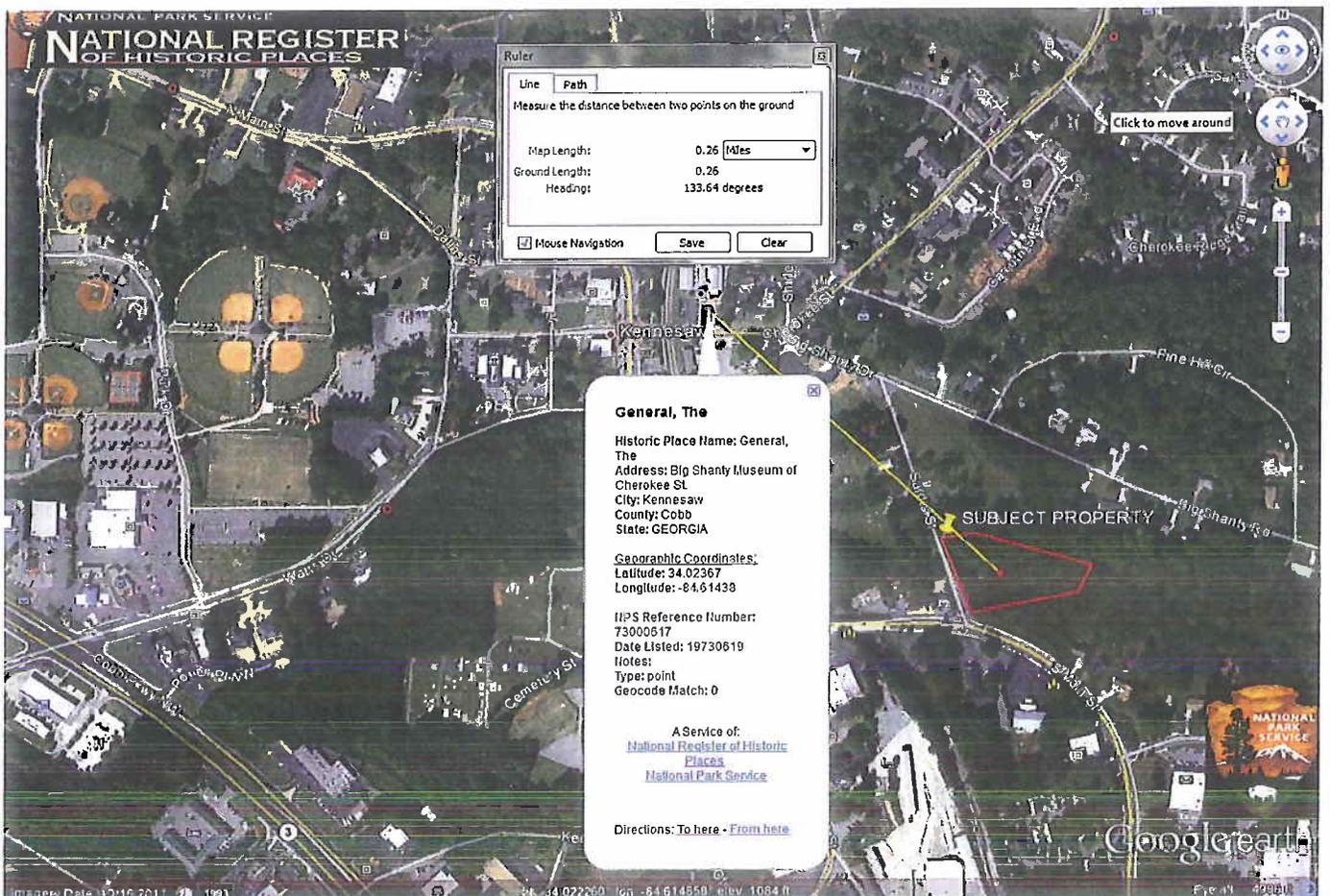


**Georgia Aster**

**APPENDIX Q:  
SHPO Review Documentation**



**Summers Street Historic District located 0.18 miles southwest of the subject property**



**The General located 0.26 miles northwest of the subject property**

**Not Applicable – SHPO Review was not needed for this DCA Phase I  
ESA.**

**GEC**

**APPENDIX R:**  
**Additional HOME Requirements**

**GEC**

**Not Applicable – HOME & HUD Environmental Questionnaire was not needed for this DCA Phase I ESA.**

**GEC**

**APPENDIX S:**  
**Operation and Maintenance**  
**Manual**

**GEC**

**Not Applicable – Operation and Maintenance Manual was not needed  
for this DCA Phase I ESA.**

**GEC**

**APPENDIX T:  
Previous Reports**

**GEC**

# **Previous Phase I ESA**

**GEC**

# Previous Phase II ESA

**GEC**

**See Appendix U for selected previous Phase I or Phase II  
Environmental Report/s and Related Regulatory Correspondence and  
Environmental Site Summaries available, provided, or reviewed for this  
DCA Phase I ESA.**

**GEC**

**APPENDIX U:**  
**Other**

## Georgia Department of Natural Resources

Environmental Protection Division  
Underground Storage Tank Management Program  
4244 International Parkway, Suite 104, Atlanta, Georgia 30354  
Chris Clark, Commissioner  
Carol A. Couch, Ph.D., Director  
404/362-2687

April 23, 2009

Mr. J. E. Poore  
1471 Wood Park Way  
Kennesaw, Georgia 30144

SUBJECT: No Further Action:  
The General Store  
2742 South Main Street  
Kennesaw, Cobb County, Georgia  
Facility ID: 9000423\*1

Dear Mr. Poore:

This is to acknowledge receipt of the Sixteenth and Seventeenth Quarterly Report and Request for No Further Action Request, received April 16, 2009 and April 9, 2009 respectively, and prepared by Sailors.

Based on the current requirements of the Georgia Underground Storage Tank Act, the Georgia Rules for Underground Storage Tank Management (GUST Rules), and the data contained in the Sixteenth and Seventeenth Quarterly Report and Request for No Further Action Request, the Georgia Environmental Protection Division (EPD) has determined that **no further action is required for the subject site at this time.**

However, this site could be subject to further action in the future if mandated through more stringent State or Federal statutory or regulatory changes, or if drinking water systems or surface water bodies are impacted by the dissolved contaminant plume, or if additional soil contamination or additional free product on or additional dissolved contaminants in groundwater are identified as originating from this site. If you have any questions, please contact Michael Coughlan at 404.362.2599.

  
Lisa L. Lewis  
Unit Coordinator  
Corrective Action Unit II

MFC\9000423.34

cc: Pat Coleman, EPD  
Richard Rudolph, P.G., S&ES  
File (CA): Cobb; 9000423

*DM*

horizontal extent of the soil contamination extends from the former tank pit area at the General Store to the east, in the general direction of the groundwater flow. Benzene in excess of the STL of 0.020 mg/kg was detected in fourteen soil samples submitted for analysis.

6. The highest benzene concentrations were on the east side of Sardis Street in the area where free product was encountered floating on the groundwater. The remaining BTEX constituents detected were below the STLs of 135.00 mg/kg for toluene, 28.00 mg/kg for ethylbenzene and 700.00 mg/kg for xylenes. The results of all other soil samples submitted for laboratory analysis for BTEX were below the STLs or the detectable limits of 0.001 mg/kg. The TPH (418.1) results indicate that TPH contamination exists down to the water table.
7. The results of VOCs and SVOCs analyses indicated that the HSRA Notification concentration of 0.08 mg/kg for methylene chloride was exceeded in sample P2SD1 at 1.69 mg/kg. Soil sample P2SD1 was collected from the sediments of the stream at the northern property boundary. All other results were below the STLs, HSRA levels or method detection limits.
8. The estimated extent of groundwater contamination is inferred from analytical evaluation of groundwater samples collected by OHM in 1993 and 1994 and by SEA in 1999. According to the amended CAP-Part B submitted by OHM on November 16, 1995, fourteen groundwater samples were collected during the November 1993 investigation and 25 groundwater samples were collected during the April 1994 investigation.
9. All groundwater samples were evaluated for BTEX constituents using EPA Method 8020. Ten of the groundwater samples collected in April 1994 were evaluated for VOCs and SVOCs constituents using EPA Methods 8240 and 8270, respectively. During our initial site visit in August 1999, SEA collected 27 groundwater samples. These groundwater samples were evaluated for VOCs and SVOCs by EPA Methods 8260B and 8270C, respectively.
10. The dissolved plume originates at the tank pit area at the General Store migrating to the east. The dissolved plume at the former sawmill property across Sardis Street migrates to the northeast where it impacts the unnamed stream along the northern property boundary of the former sawmill.
11. According to the CAP-Part B submitted by OHM, the majority of the contaminant plume appears to have occurred along a trough that is depicted in the potentiometric surface maps. OHM thought the trough is a large, near vertical fracture in bedrock. The trough extends from DW-1, past MW-3 and P2MW-2 and terminates at MW-5, where free product accumulates. The dissolved plume flows toward the stream where it was observed that water with dissolved contamination and occasional free product seep into the stream.
12. Free product was encountered in monitoring wells MW-3, MW-5, P2MW-2, P2MW-8, P2MW-9, P2MW-10, P-1 and DW-2 during the investigations and subsequent groundwater sampling events conducted by OHM and SEA. Product baildown

19. The site is located in an area of lower groundwater pollution susceptibility, as defined by the Groundwater Pollution Susceptibility Map of Georgia (Georgia Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey, 1992). OHM conducted a well survey for the site in 1993. According to the OHM survey, there were no non-public drinking water system intakes identified within 0.50 miles of the subject site and no public water system intakes were identified within three miles of the subject site. As part of the initial site activities, SEA verified the OHM well survey based on the current requirements for public and non-public water supply survey of one-mile and ¼-mile radii, respectively.
20. According to the City of Kennesaw Public Works personnel, Kennesaw provides municipal water service to all properties within their city limits. Cobb County Water and Sewer Department provides municipal water service to areas outside the Kennesaw city limits. The City of Kennesaw purchases water from Cobb County and Cobb County purchases water from the Cobb-Marietta Water Authority. In a telephone conversation with Mr. John Lamica, the Cobb-Marietta Water Authority has two surface water intakes, two operating wells and two permitted wells for supplemental use only. The surface water intakes are located on Lake Allatoona off Highway 293 in Bartow County and on the Chattahoochee River at Johnson Ferry Road in Marietta. The wells are not located in the Kennesaw area.
21. Surface water bodies within one mile of the subject site include the unnamed stream along the northern property boundary of the old sawmill property across Sardis Street from The General Store. This is the surface water body receiving groundwater discharge from the subject site.
22. OHM evaluated the hydraulic conductivity of the soils in selected monitoring wells at the subject site using rising head slug tests. The tests were conducted on MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, TMW-5, TMW-6 and TMW-7 in November 1993. The values obtained ranged from 2.13E-2 cm/sec (6.99E-4 ft/sec) to 2.54E-4 cm/sec (8.33E-5 ft/sec) using the Bower and Rice Reduction Technique and 2.5E-3 cm/sec (8.2E-5 ft/sec) to 1.2E-4 cm/sec (3.94E-6 ft/sec) using the Horslev Data Reduction Technique.
23. The hydraulic gradient across the site was calculated at 0.0698 using water level measurements obtained from the monitoring wells on July 25, 2000. The gradient was calculated from the difference in water levels and distance between DW-4 and TMW-7. The water levels in DW-4 and TMW-7 were the minimum and maximum measured on site and the wells are located parallel to the groundwater flow direction upgradient and downgradient of the contaminant plume and is probably representative of the actual gradient. The steepest gradient calculated is between DW-4 and MW-1 at 0.11. The shallowest hydraulic gradient calculated was between MW-5 and TMW-7 at 0.029. The soils at the subject site are comprised mainly of silts and fine sands. Fetter (1988) indicates that the average Specific Yield for soils of this type range from 18% to 21%. By assuming that the Specific Yield is equal to the effective porosity, an effective porosity value of 20% was used for the subject site.

31. SEA conducted a groundwater receptor survey for the purpose of establishing the proper compliance point for this site. The original compliance point was based on the down gradient property boundary and a drainage feature at that location. Based on our survey, including a review of the Hazardous Site Response Program compliance and corrective action information for this site, the nearest downgradient receptor is a wetland area in a former pond (Duncans Lake) located 2,200 feet from the source area. The ACLs were recalculated to this new compliance point. The current benzene concentration in P-3 (2,690 µg/l) would not reach the wetland area above the ISWQS for benzene at 71 µg/l. Based on the modeling, we propose an ACL of 5,000 µg/l for benzene.
32. A review of the October 2007 laboratory data for the Thirteenth Quarterly sampling event indicated that the remediation system had operated for over 3½ years, even as drought conditions persisted, with exceptional results. However, the contaminant concentrations in the source area still exceeded the CAP-B ACL. SEA concluded that since free product was no longer present and the unnamed intermittent stream has not been impacted above the ISWQS since April 2007, a more appropriate ACL for the source area should be calculated for the current site conditions.
33. A Task Order to perform a Two-Dimensional Numerical Groundwater Fate and Transport model, install and operate groundwater pumps and produce a CAP-B Addendum was assigned on August 26, 2008. Based on the results of the two-dimensional model, an ACL of 2,150 µg/l benzene was proposed. The two-dimensional model is discussed in the Risk Assessment section. On the basis of the proposed ACL, the corrective action goals were met and the remediation system was shutdown on September 18, 2008.
34. During the October 2008 quarterly sampling event, a benzene concentration of 4,010 µg/l was measured in the groundwater sample collected from RW-2. As a result of the rebound in that well, the vacuum assisted groundwater recovery pump at RW-2 was reactivated on December 12, 2008 and operated for one month before resampling to collect residual contamination in the immediate vicinity of the recovery well. The samples collected on January 13, 2009 and March 4, 2009 at the influent location of the remediation system with only RW-2 operating indicated that the benzene concentrations in RW-2 at 791 µg/l and 974 µg/l, respectively, were well below the new ACL.
35. The March 20, 2009 quarterly sample collected directly from RW-2 indicated a benzene concentration of 1,070 µg/l which did not exceed the new ACL benzene concentration of 2,150 µg/l. The March 20, 2009 quarterly sampling results indicate that the downward trend in site concentrations is continuing. Following the recent rains in late March and early April 2009, one additional sample was collected from RW-2 to verify that no rebound would occur from the increased rainfall. The benzene concentration of 4.6 µg/l detected in RW-2 indicates that the remaining impact in this area is minimal and is below the ACL of 2,150 µg/l benzene.



# Georgia Department of Natural Resources

2 Martin Luther King Jr. Dr., SE, Suite 1154 East, Atlanta, Georgia 30334

Mark Williams, Commissioner

Environmental Protection Division

Judson H. Turner, Director

Land Protection Branch

Keith M. Bentley, Branch Chief

Phone 404/656-7802 FAX 404/651-9425

June 12, 2012

Mr. Paul Robinson  
Vantage Development, LLC  
1544 S. Main Street  
Fyffe, AL 35971

RE: Brownfields Corrective Action Plan  
Sardis Street Property, Kennesaw, Cobb County, Georgia

Dear Mr. Robinson:

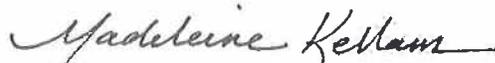
The Georgia Environmental Protection Division (EPD) was pleased to have received your May 29, 2012 application for a limitation of liability pursuant to Article 9 of Chapter 8 of Title 12, the Georgia Hazardous Site Reuse and Redevelopment Act (Act). The application consists of a prospective purchaser corrective action plan (CAP) and a non-refundable \$3,000 application review fee, for which this letter will serve as receipt. The initial application review fee will fund approximately sixty-four hours of technical review at EPD's current cost of \$47 per hour. Although many applications can be reviewed within this time-frame, applications that are complex or that require extensive revisions may incur additional review fees. These will be invoiced quarterly and must be paid in full before a written concurrence with a certification of compliance may be issued.

The subject property is located along and east of Sardis Street, Kennesaw, Cobb County, Georgia. The property is described as "All that tract or parcel of land lying and being in Land Lot 138, District 20, 2nd Section, of Cobb County, Georgia..." A complete legal description of the property is provided as an attachment to this letter. EPD confirms that the Brownfields qualifying criteria established under sections 12-8-205 and 12-8-206 of the Act have been met. The review of the CAP has been completed by EPD, and the CAP is hereby approved.

Under section 12-8-207(a) of the Act, approval of the CAP confers a provisional limitation of liability upon the prospective purchaser, contingent upon timely implementation of the approved CAP and certification of compliance with the risk reduction standards for soil and source material in accordance with the approved schedule. Should unanticipated events or site conditions warrant changes in the CAP or the approved schedule in order to achieve compliance, the prospective purchaser must notify the Director and obtain approval of the proposed modifications.

While the property is undergoing corrective action, it should be maintained in a manner that protects humans from exposure to hazardous constituents. If you have questions, or need further assistance, please contact Shannon Ridley at 404/656-7802 or Nikki Haborak at 912/323-2956

Sincerely,



Madeleine Kellam  
Brownfields Coordinator

Attachment: Legal Description

File: Sardis Property

S:\DRIVE\BFDU\Brownfields\BF Properties Outstanding\Sardis St\SardisCAP.doc

L E G A L   D E S C R I P T I O N

All that tract or parcel of land lying and being in Land Lot 138, District 20, 2nd Section, of Cobb County, Georgia, and being more particularly described as follows:

TO ARRIVE AT THE POINT OF BEGINNING, begin at the true point of beginning at the centerline of intersection of Sardis Street and South Main Street, having state plane coordinate N - 1462828.16 and E - 2161816.54; thence north 1 degree, 34 minutes, 20 seconds east, 50.84 feet to an iron pin set being the point of beginning:

THENCE North 18 degrees 10 minutes 23 seconds West for a distance of 328.70' feet to an IPS;

THENCE North 78 degrees 17 minutes 05 seconds East for a distance of 126.41' feet to sprhd;

THENCE South 70 degrees 31 minutes 30 seconds East for a distance of 113.88' feet to a 1/2" otf;

THENCE South 71 degrees 01 minutes 09 seconds East for a distance of 360.83' feet to a 3/4" otf;

THENCE South 70 degrees 58 minutes 52 seconds East for a distance of 39.67' feet to a 1" otp;

THENCE South 50 degrees 58 minutes 39 seconds West for a distance of 119.72' feet to a 1" otp;

THENCE South 77 degrees 10 minutes 27 seconds West for a distance of 424.93' feet to an ips;

Together with and subject to covenants, easements, and restrictions of record.

Said property contains 2.65 acres more or less.



SEA

SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

May 29, 2012

Ms. Shannon Ridley  
Georgia Department of Natural Resources  
Environmental Protection Division  
Floyd Towers East, Suite 1154  
2 Martin Luther King Jr. Drive, SE  
Atlanta, Georgia 30334-9000

RE: Prospective Purchaser Corrective  
Action Plan  
Sardis Street Property  
Kennesaw, Cobb County, Georgia  
SEA Job No. 122-032

Dear Ms. Ridley:

Sailors Engineering Associates, Inc. (SEA) has completed the Prospective Purchaser Corrective Action Plan on behalf of Vantage Development, LLC and is pleased to submit this copy for your review. This PPCAP and attached check for \$3,000.00 constitute an application for Limitation of Liability protection under the Brownfield Program.

This property is being submitted as a candidate for at least partial funding by the Georgia Department of Community Affairs (DCA). The application for DCA funding must be submitted prior to June 14, 2012 and the Brownfield designation is desired for that submittal.

If you have any questions or require any additional information, please contact us at your convenience.

Respectfully submitted,

SAILORS ENGINEERING ASSOCIATES, INC.



Michael J Haller, P.G.

**SEA**

**SAILORS ENGINEERING ASSOCIATES, INC.**

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

**CERTIFICATION**

I certify, under penalty of law, that the electronic copy is complete, identical to the paper copy, and virus free.

5/29/2012

Date



Michael J. Haller, P.G.  
Project Manager

# GEORGIA BROWNFIELDS ELIGIBILITY FORM

<input type="checkbox"/>	CLOSING DATE FOR REAL ESTATE TRANSACTION (provide date, if known) _____
<input checked="" type="checkbox"/>	A \$3,000 APPLICATION FEE IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES
<input checked="" type="checkbox"/>	A COPY OF THE WARRANTY DEED FOR THE SUBJECT PROPERTY, OR, IF NOT AVAILABLE, OTHER DOCUMENTS GIVING THE PROPERTY'S LEGAL DESCRIPTION AND/OR A COPY OF A TAX PLAT OR OTHER FIGURE SHOWING PROPERTY BOUNDARIES
<input checked="" type="checkbox"/>	TWO (2) PAPER COPIES AND TWO (2) COMPACT DISC (CD) COPIES OF THE PROSPECTIVE PURCHASER COMPLIANCE STATUS REPORT (PPCSR) OR PROSPECTIVE PURCHASER CORRECTIVE ACTION PLAN (PPCAP) IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF)

## PROSPECTIVE PURCHASER INFORMATION

NAME	Paul Robinson	TITLE	Project Manager
COMPANY (if applicable)	Vantage Development, LLC		
ADDRESS	1544 S. Main Street, Fyffe, AL 35971		
PHONE	404-357-0147	FAX	-
		E-MAIL	probinson@thevantagegroup.biz

## TECHNICAL CONTACT PERSON (CONSULTANT, CONTRACTOR, ETC.)

NAME	Michael J. Haller, P.G.	TITLE	Manager, Environmental Engineering
COMPANY	Sailors Engineering Associates, Inc.		
ADDRESS	1675 Spectrum Drive, Lawrenceville, GA 30043		
PHONE	770-962-5922	FAX	770-962-7964
		E-MAIL	mike@sailors-engineering.com

## ADDITIONAL CONTACT PERSON

NAME	Paul Robinson	TITLE	Project Manager
COMPANY	Vantage Development, LLC		
ADDRESS	1544 S. Main Street, Fyffe, AL 35971		
PHONE	404 357-0147	FAX	-
		E-MAIL	probinson@thevanatqgegroup.biz

## PROPERTY INFORMATION

PROPERTY STREET ADDRESS	Sardis Street		
CITY	COUNTY	ZIP CODE	
	Cobb	30144	
TAX PARCEL NUMBER(s)	PROPERTY NAME (if applicable)		
20013800660 20013800500	Sardis Street Property		
SIZE IN ACRES	LATITUDE	LONGITUDE	
2.6	34.020983°	-84.611264°	

PLEASE CHECK ALL OF THE FOLLOWING THAT APPLY:

Underground Storage Tanks

Currently on Site (includes tanks that were closed in place)

Removed Provide date of "No further action" letter \_\_\_\_\_

Landfills or buried debris (past or present)

HSRA Release Notification Provide date Notification was filed \_\_\_\_\_ 1993

Date of Non-listing letter (if applicable), \_\_\_\_\_ March 31, 2004

OR

Listing Date \_\_\_\_\_ December 5, 1994 and HSI Site Number \_\_\_\_\_ 10347

PROSPECTIVE PURCHASER AND PROPERTY QUALIFYING CRITERIA

Prospective Purchaser

I am not a person who has contributed or is contributing to a release at the property, or a relative by blood within the third degree of consanguinity or by marriage, an employee, shareholder, officer, or agent; or otherwise affiliated with the current owner of the property or any person who has contributed to a release at the property.

The purchasing corporation or other legal entity, is not a current or former subsidiary, division, parent company, or partner; or employer or former employer; or otherwise affiliated with the current owner of the property or any person who has contributed to a release at the property.

I certify that I am not in violation of any order, judgment, statute, rule, or regulation subject to the enforcement of the Director

Property

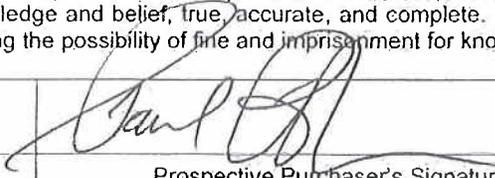
This property has a pre-existing release.

This property is not listed on the National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act.

This property is not currently undergoing response activities as required by an order of the state or federal Environmental Protection Agency.

This property is not a hazardous waste facility as defined by Georgia Code Section 12-8-62.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Paul Robinson (Vantage Development)		5/25/12
Prospective Purchaser's Name (Print)	Prospective Purchaser's Signature	Date



---

**SEA**

**SAILORS ENGINEERING ASSOCIATES, INC.**

---

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

**PROSPECTIVE PURCHASER  
CORRECTIVE ACTION PLAN  
SARDIS STREET PROPERTY  
KENNESAW, COBB COUNTY, GEORGIA**

**SEA JOB #122-032**

**SUBMITTED:  
MAY 29, 2012**

SEA

SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

### GROUNDWATER SCIENTIST STATEMENT

I certify that I am a qualified groundwater scientist who has received a baccalaureate degree in geology, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by myself and others working under my direction, and has been reviewed by myself.



A handwritten signature in black ink, appearing to read "Michael J. Haller".

Michael J. Haller, P.G.  
Georgia Registration Number 1062

## TABLE OF CONTENTS

<b>1.0 INTRODUCTION.....</b>	<b>1</b>
1.1 Objectives.....	1
1.2 Prospective Purchaser Information .....	1
1.3 Prospective Purchaser and Property Qualifications .....	1
1.4 Site History.....	2
1.5 Site Features.....	2
1.6 Site Hydrogeology .....	3
1.7 Regulatory Status .....	4
<b>2.0 RISK REDUCTION STANDARDS .....</b>	<b>4</b>
<b>3.0 CORRECTIVE ACTION .....</b>	<b>4</b>
3.1 Corrective Action Completed or In Process.....	4
3.2 Proposed Corrective Action .....	4
3.2.1 Effectiveness .....	5
3.2.2 Other Regulatory or Permitting Requirements.....	5
3.2.3 Additional Data Requirements.....	5
3.3 Schedule .....	6

### APPENDICES

#### Appendix 1: Figures

Area Plan  
Vicinity Map  
Site Plan with Proposed Development

#### Appendix 2:

Current Warranty Deed and Legal Description  
Tract "A" Legal Description  
Survey Plat Entitled *2720 South Main Street Property Holding*,  
Prepared by Floyd & Associates, 9-13-2006

## **1.0 INTRODUCTION**

### **1.1 Objectives**

The objective of the Prospective Purchaser Corrective Action Plan (PPCAP) for Tract "A" or the Sardis Street Property, located along and east of Sardis Street, Kennesaw, Cobb County, Georgia, is to remediate any impacted soil contamination to the Type 1 or 2 Risk Reduction Standard (RRS) during redevelopment of the property. The subject site has historic impacts from both petroleum and non-petroleum volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). VOCs and SVOCs were detected in the soil and groundwater in northern portion of the property. Following an evaluation of the subject property the EPD HSRP placed the subject property as well as an adjoining property on the Hazardous Sites Inventory (HSI) on December 5, 1994, as the "Sardis Road Creosote Site", HSI #10347. After remedial efforts, the EPD HSRP on March 31, 2004, removed the subject property from the HSI and on April 23, 2009, the EPD USTMP granted The General Store (Facility ID: 9000423) "No Further Action" status. Based on past property use, additional areas of impact may be discovered during redevelopment and will be remediated to the Type 1 or 2 RRS.

### **1.2 Prospective Purchaser Information**

The Prospective Purchaser for this site is Vantage Development, LLC, a Georgia limited liability company.

The contact person and mailing address is:

Vantage Development, LLC  
Attn: Mr. Paul Robinson  
1544 South Main Street  
Fyffe, Alabama 35971

### **1.3 Prospective Purchaser and Property Qualifications**

The prospective purchaser, Vantage Development, LLC meets the criteria for prospective purchasers to qualify for limitation of liability as established in Code Section 12-8-206 of the Georgia Hazardous Site Reuse and Redevelopment Act.

- Vantage Development, LLC is not a current or former subsidiary, division, parent company or partner of the current property owners, Steven L. Jolivette and Bonni P. Thompson.
- Vantage Development, LLC is not the former employer or current employer, nor otherwise affiliated with the current owners of the subject property or any person who has contributed or is contributing to a release at the subject property.
- Vantage Development, LLC is not in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

Further, in accordance with Georgia Hazardous Site Reuse and Redevelopment Act requirements the Subject Property:

1. has had a pre-existing release,
2. does not have liens filed under subsection (e) of Code Section 12-8-96 against it,
3. a) is not listed on the federal National Priority List,  
b) is not undergoing response activities by order of the Environmental Protection Agency,  
c) and is not a hazardous waste facility as defined in Code Section 12-8-62.

#### **1.4 Site History**

The subject property is currently an undeveloped commercial tract. A sawmill with a lumber creosote treatment operation once occupied the subject property. Based on several interviews, the subject property was undeveloped until the early 1950s when the sawmill was constructed and operated until the late 1980s. The sawmill was involved with creosote dipping on a small scale, mostly fence posts and small lumber and was confined to one small area of the subject property. According to the late Mrs. A.L. Marr, her husband purchased the subject property in the mid 1970s and during the 1980s leased the subject property. Through the duration of the lease, wood was treated with creosote. Mrs. Marr said the sawmill operated on electric power.

In addition to the on-site historic saw mill operations, the site was also the focus of a USTMP remediation effort resulting from the release of petroleum products from the neighboring and up gradient Kennesaw General Store. A release was first investigated in 1989 based on the discovery of a free product sheen in the stream along the northern property boundary. The site was ultimately assigned to a contractor to the Underground Storage Tank Management Program (USTMP) for remediation, and on April 23, 2009, the EPD USTMP granted The General Store "No Further Action" status.

#### **1.5 Site Features**

The subject property, Tract "A", occupies 2.654 acres and is located along and to the east of Sardis Street approximately forty (40) feet northeast of the Sardis Street - South Main Street or Old US Highway 41 intersection in Kennesaw, Cobb County, Georgia (see Area Plan). The subject property is currently undeveloped, but was once occupied by a former sawmill - creosote lumber treatment operation from the 1950s through the 1980s. The subject property is covered with tall grasses and brambles in the central portion of the property with access to Sardis Street. The remainder of the property is wooded with a stream along the northern property boundary. According to the Cobb County, Georgia Tax Assessor's Office, Tract "A" is located in District 20, Land Lot 138 is comprised of two separate tax parcels, 50 and 66, that are identified as parcel numbers 20013800500 and 20013800660. Parcel 50, the eastern portion and parcel 66 the western portion, measure 1.4 acres and 1.2 acres, respectively. The current property owners are listed as Steven L. Jolivette and Bonni P. Thompson. The current Warranty Deed and legal description for the property is given in Exhibit A (Deed Book 14018, Pages 4147 through 4149)

and is based on original descriptions prepared from 1940 through 1963. Parcel 50 is included in Tract I and Parcel 66 is included in Tract II. A copy of the legal description for Tract "A" and the survey plat entitled *2720 South Main Street Holding* prepared by Floyd & Associates, Inc. of Oakwood, Georgia on September 13, 2006, which include the subject Tract "A" and Tract "B" which is not part of this PPCAP is included in Appendix 2.

## 1.6 Site Hydrogeology

The subject site is located in the physiographic province known as the Piedmont that extends from the Hudson River in the north to Alabama in the south. The Piedmont is the least mountainous portion of the Appalachian Highlands. The surface of the Piedmont can be described as broadly undulating or rolling topography with low knobs or ridges, and valleys 30 to 300 feet thick. The underlying crystalline rocks of the Piedmont are metamorphic gneisses, quartzites and slates, and igneous granites and gabbros.

According to the Georgia Geologic Survey Bulletin 96 entitled *Geology of the Greater Atlanta Region*, the underlying rock present on the subject site is part of the Powers Ferry Formation (pfu) of the Eastern Belt of the Sandy Springs Group of the Northern Piedmont Province. The Powers Ferry Formation consists of undifferentiated biotite-quartz-plagioclase gneiss (metagraywacke), mica schist and amphibolite. Based on detailed mapping in the 1990s a more recent publication, Georgia Geologic Survey Bulletin 130 entitled *Revision of Stratigraphic Nomenclature in the Atlanta, Athens, and Cartersville 30' X 60' Quadrangles, Georgia*, the Powers Ferry Formation was renamed the Powers Ferry Member of the Stonewall Gneiss.

Groundwater in the Piedmont is generally found in the shallow confined surficial aquifer, consisting of primary and secondary voids in the residuum and saprolite. Shallow unconfined water table conditions are present throughout the Piedmont physiographic province. Recharge to the groundwater occurs from precipitation that averages approximately 49 inches per year within the greater Atlanta area. Rainfall occurs throughout the year, although increased amounts of rainfall are typical during the spring months. Soils within the area consist predominantly of sandy silts and silty sands that allow rapid percolation of rainfall. Typically, the infiltration of precipitation through the soil to the groundwater occurs within a few days after rainfall.

According to the Georgia Geologic Survey Information Circular 63 entitled *Ground Water in the Greater Atlanta Region*, the subject site is located on Plate 1, in Unit "A". Well depths in Unit "A" range from 35 feet to 2,175 feet, averaging 294 feet. Well yields range from 20 gallons to 275 gallons per minute, averaging 56 gallons per minute. Unit "A" is a complex aquifer that consists of interlayered amphibolite, gneiss and schist in varying proportions and thicknesses.

The subject property slopes from a topographic high at the southwestern property corner along Sardis Street toward the stream along the northern property boundary to the northeast. The elevation ranges from 1,114 feet at the highest point measured along Sardis Street to 1,059 feet at the eastern property corner. This is an elevation change of 55 feet in 533 feet. Historically the depth to groundwater measured in onsite monitoring wells ranged from 26.20 feet below ground surface (bgs) to 34.64 feet bgs in MW-2, located at the southeastern property corner to 17.55 feet bgs to 25.09 feet bgs in P2MW-5, located near the center of the property. The historic

groundwater flow direction is to the east.

### **1.7 Regulatory Status**

A HSRA Notification was submitted in 1993 and the subject property was subsequently listed on the Hazardous Sites Inventory (HSI) on December 5, 1994 and named the “Sardis Road Creosote Site”, HSI #10347. After remedial efforts, on March 31, 2004, the EPD HSRP removed subject property from the HSI. The subject property was also impacted from a UST petroleum release prior to 1989 from The General Store (Facility ID: 9000423) located at 2742 South Main Street, directly across Sardis Street from the subject property. After several years of remediation on the subject property, the EPD USTMP on April 23, 2009, granted The General Store “No Further Action” status.

### **2.0 RISK REDUCTION STANDARDS**

The risk reduction standards (RRS) under HSRA rules are based on property use and available site specific information. Types 1 and 2 RRS are residential or non-residential standards. Types 3 and 4 are applicable only to non-residential sites. Types 2 and 4 are based on site specific and/or default factors in determining the applicable standard.

The residential use standards have been chosen as the goal of corrective action for this property.

Based on the previously detected soil and groundwater contamination and past property use, additional areas of impact may be discovered during redevelopment and will be remediated to the Type 1 or 2 RRS.

### **3.0 CORRECTIVE ACTION**

#### **3.1 Corrective Action Completed or In Process**

Prior corrective action at the subject site has consisted of the excavation and off site disposal of creosote impacted soils as well as the operation of a groundwater remediation system for the cleanup of impacts associated with The General Store site located at 2742 South Main Street, directly across Sardis Street from the subject property. Based on the previously detected soil and groundwater contamination and past property use, additional areas of impact may be discovered during redevelopment and will be remediated to the Type 1 or 2 RRS.

#### **3.2 Proposed Corrective Action**

All soil impacts above Type 1 or Type 2 RRS will be remediated using direct excavation and off-site disposal or other methods deemed appropriate based on site specific conditions. Excavation material that requires off site disposal will be placed directly in roll-off boxes or dump trucks, or placed on pavement with appropriate cover and erosion control. All work will be performed in accordance with applicable regulations, and in accordance with a site specific Health and Safety Plan and OSHA standards. The excavation, handling, transportation and disposal of the source material will be performed in a manner designed to prevent contamination of the surrounding

unaffected areas in accordance with federal, State and local laws, and is protective of personnel in the excavation area and adjacent areas.

### **3.2.1 Effectiveness**

As part of any corrective action, confirmation sampling will be performed in any excavation areas following the removal activities. The sampling will consist of at least one sample every 100 square feet of excavation bottom and 25 linear feet of side walls analyzed for VOCs. Samples may also be collected from the soil stockpile and analyzed prior to disposal as required by the disposal facility.

Additional laboratory testing will be performed with similar frequency following any additional remedial measure to demonstrate compliance with the appropriate RRS.

### **3.2.2 Other Regulatory or Permitting Requirements**

The remediation activities may be regulated under other laws depending on the level of impact and the disposal method selected. Transporters and facilities licensed to handle the waste will be used.

### **3.2.3 Additional Data Requirements**

Following completion of any removal operations performed on the subject property, if necessary, additional data will be collected as warranted and described in Section 3.2.1 above to prepare and submit a Prospective Purchaser Compliance Status Report (PPCSR). Further, in order to more fully characterize the subject site additional soil sampling will be conducted at the site to determine if soil impacts are present above the appropriate RRS. The sampling will be performed following removal of the slabs and/or buildings in areas identified based on visual observations. If the slabs and/or buildings are not to be removed, soil sampling will be conducted by coring through the slabs at locations identified as potential source areas. The PPCSR will include the following sections as necessary:

- A legal description and survey plat of the qualifying property
- Compliance and groundwater scientist certification statements
- A description of the release source
- A description of the on-site horizontal and vertical extent of soil contamination
- A description of the on-site horizontal and vertical extent of groundwater contamination
- A characterization of the subsurface hydrogeology
- A description of potential receptors and risk reduction standards
- A summary of corrective action completed
- Documentation of proper characterization, transportation and disposal of excavated soils and hazardous wastes
- A summary of soil and groundwater sampling results
- Certification of compliance with the residential risk reduction standards for soil

### 3.3 Schedule

The following is a milestone schedule of the events outlined in the CAP:

Corrective action measures and  
submittal of PPCSR

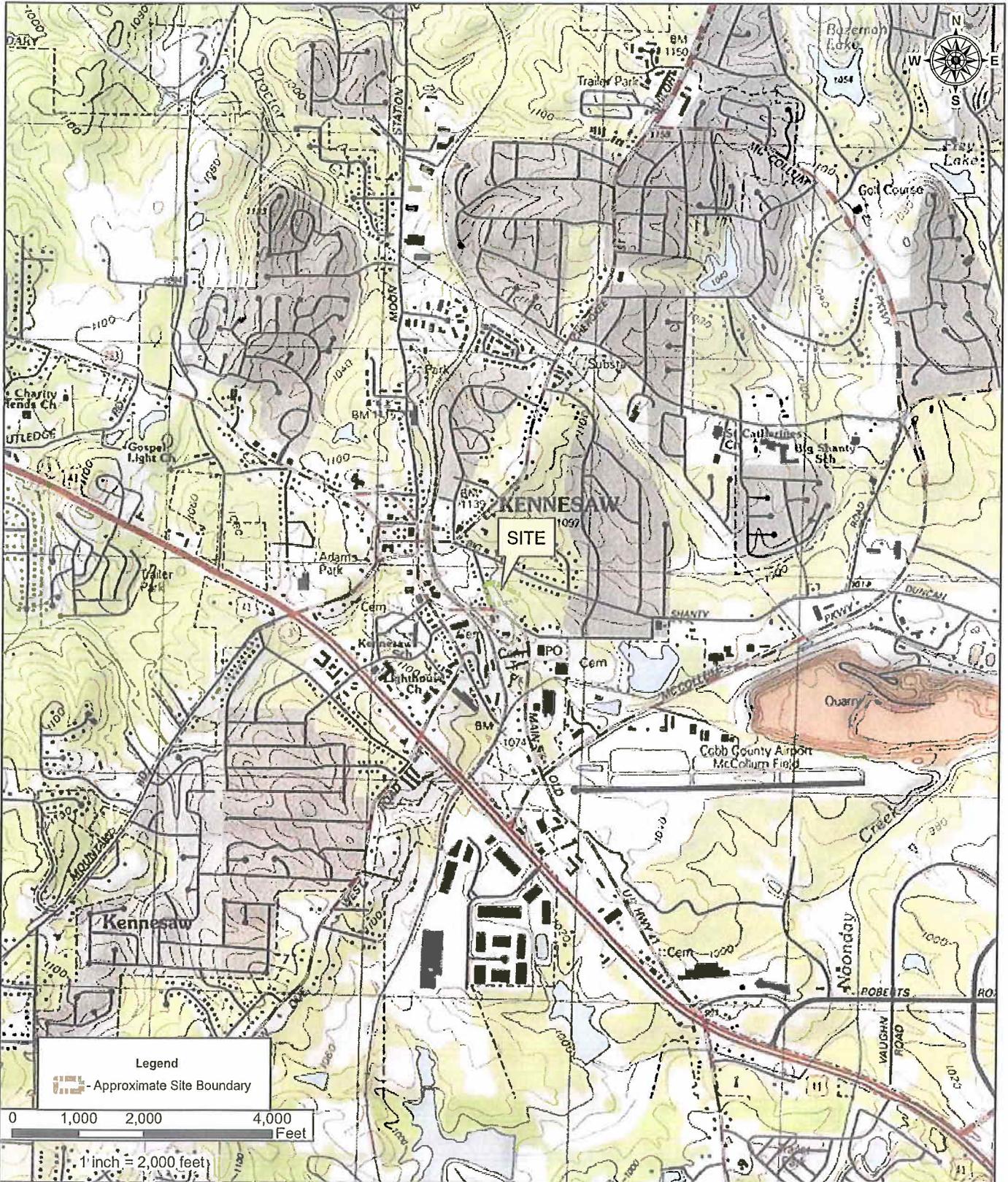
Within 36 months following  
property transfer. Anticipated  
submittal by September 2015.

**Appendix 1: Figures**

Area Plan

Vicinity Map

Site Plan with Proposed Development



Data Sources: 1:24,000 Kennesaw, Georgia USGS 7.5' topographic map quadrangle courtesy of ESRI Map Services

**SEA**

**SAILORS  
ENGINEERING  
ASSOCIATES, INC.**

ENVIRONMENTAL/GEOTECHNICAL  
1675 SPECTRUM DRIVE  
LAWRENCEVILLE, GEORGIA 30043  
(770) 962-5922 FAX 962-7964

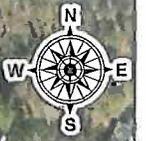
# AREA PLAN

**SARDIS STREET PROPERTY**

Sardis Street at South Main Street  
Kennesaw; Cobb County, Georgia

Job No. 122-032

SEA-2108



Data Sources: Bing Maps Hybrid Basemap courtesy of ESRI Map Services

**SEA**

**SAILORS  
ENGINEERING  
ASSOCIATES, INC.**

ENVIRONMENTAL/GEOTECHNICAL

1675 SPECTRUM DRIVE  
LAWRENCEVILLE, GEORGIA 30043  
(770) 962-5922 FAX 962-7964

# VICINITY MAP

SARDIS STREET PROPERTY

Sardis Street at South Main Street  
Kennesaw; Cobb County, Georgia

Job No. 122-032

SEA-2108



**Appendix 2:**

Current Warranty Deed and Legal Description  
Tract "A" Legal Description  
Survey Plat Entitled *2720 South Main Street Property Holding*,  
Prepared by Floyd & Associates, 9-13-2006

SEA

162 Burns Kingdon

Deed Book 14018 Pg 4147  
Filed and Recorded Jul-28-2004 04:25pm  
2004-0142393  
Real Estate Transfer Tax \$265.20

Jac Stephenson

Jay C. Stephenson  
Clerk of Superior Court Cobb Cty. Ga.

1402

WARRANTY DEED

STATE OF GEORGIA  
COBB COUNTY

THIS INDENTURE, made this 23<sup>rd</sup> day of July, 2004, between

**RAYMOND D. EAST, JR.**

of the State of Georgia and County of Cobb as party or parties of the first part, hereinafter called Grantor, and

**STEVEN L. JOLIVETTE and BONNI P. THOMPSON,**  
as Joint Tenants with Rights of Survivorship (and not as Tenants in Common)

of the State of Florida and County of Bay as party or parties of the second part, hereinafter called Grantee (the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits).

WITNESSETH that the said Grantor, for and in consideration of the sum of TEN DOLLARS AND OTHER VALUABLE CONSIDERATION in hand paid at and before the sealing and delivery of these receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed, and by these presents does grant, bargain, sell and convey unto the said Grantee,

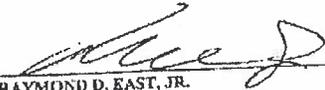
**ALL THAT TRACT OR PARCEL OF LAND** lying and being in Land Lot 138, 20th District, 2nd Section, in the City of Kennesaw, Cobb County, Georgia, and being more particularly described on the Exhibit "A" (consisting of 2 pages) attached hereto and incorporated herein by this reference.

This property is known as the Sardis Street (aka Ball Ground SL) property, Kennesaw, GA

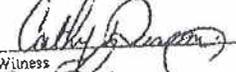
TO HAVE AND TO HOLD the said tract or parcel of land, with all and singular the rights, members and appurtenances thereof, to the same being, belonging or in any wise appertaining, to the only proper use, benefit and behoof of said Grantee forever, **IN FEE SIMPLE.**

AND THE SAID Grantor will warrant and forever defend the right and title to the above described property unto the said Grantee against the claims of all persons whomsoever.

IN WITNESS WHEREOF, the Grantors have hereunto set their hands and affixed their seals, the day and year above written.

  
RAYMOND D. EAST, JR. (Seal)

Signed and sealed in the presence of

  
Witness  
  
Notary Public  
N.P. 5-0



TRACT I:

All that tract or parcel of land lying and being in the City of Kennesaw in Land Lot 138 of the 20th District, 2nd Section of Cobb County, Georgia, a survey and plat of said property being made by John M. Lord, Surveyor, dated August 11, 1963, recorded in Plat Book 27, page 1, Cobb County Records; said property being more particularly described as follows:

BEGINNING at a point located on the northerly side of the Old U. S. 41 Highway a distance of 175 feet southeasterly from the intersection formed by the easterly side of Sardis Street with the northerly side of the Old U. S. 41 Highway as shown on aforesaid plat; running thence North 18 degrees 22 minutes West a distance of 426.1 feet to a point; thence South 73 degrees 34 minutes East a distance of 421.5 feet to a point located at the northwest corner of the George E. Taylor and Jessie M. Taylor property; thence South 29 degrees 51 minutes West along the westerly side of the said George E. Taylor and Jessie M. Taylor property a distance of 287.5 feet to a point located at the northeast corner of this Otis Bookins property (the Otis Bookins property mentioned herein is that property shown by survey and plat of same by Merritt and Walker, Engineers, recorded in Plat Book 26, page 197, Cobb County Records); thence South 14 degrees 32 minutes West a distance of 199 feet to a point located on the northerly side of the Old U. S. 41 Highway and at the southwest corner of said Otis Bookins property; thence North 58 degrees 38 minutes West along the northerly side of the Old U. S. 41 Highway a distance of 118.3 feet to the point of beginning.

The above-described property is a portion of the property conveyed by M. J. Jackson to Mariah Jackson, Elizabeth Jackson and Marie Jackson by Warranty Deed dated June 21, 1940, and recorded in Deed Book 141, Page 389, Cobb County Records; a Plat of the Mariah Jackson, Elizabeth Jackson and Marie Jackson property made by Merritt and Walker, Engineers, is recorded in Plat Book 26, Page 197, Cobb County Records.

TRACT II:

All that tract or parcel of land lying and being in Cobb County, Georgia, and in the Town of Kennesaw, and in Land Lot No. 136, 20th District and 2nd Section, and more particularly described as follows:

COMMENCING at a point on the East side of Ball Ground Street and at the Southwest corner of the Janie Oliver lot and running Easterly along the Janie Oliver land 150 feet, more or less, to the center of a spring; thence on Easterly 50 feet, more or less, along the center of the branch to an iron stake; thence Southerly along the property of Mariah Jackson, et al. 210 feet, more or less, to U. S. Highway No. 41; thence Westerly along U. S. Highway No. 41, 200 feet, more or less, to Ball Ground Street; thence Northerly along the East side of Ball Ground Street 350 feet, more or less, to point of beginning.

This being the same property as that conveyed by Miss Bernette Remby to Mrs. Jennie Franklin Carruch by Warranty Deed dated January 10, 1950, and recorded in Deed Book 213, page 39, Cobb County Records.

Exhibit "A" (Page 1 of 2)

LESS AND EXCEPT:

All that tract or parcel of land lying and being in Land Lot 136 of the 20th District, 2nd Section, Cobb County, Georgia, and being in 5 follows:

BEGINNING on the easterly side of Ball Ground Street at the northwest corner of property conveyed to C. G. Dawson and A. L. Hart by Mrs. Jennie Franklin Carruth by Warranty Deed dated September 23, 1957, and recorded in Deed Book 428, page 251, Cobb County Records, being also the southwestern corner of property now or formerly known as the Janis Oliver Lot, and running thence southerly along the easterly side of Ball Ground Street for a distance of 49 feet to a point and corner; thence running easterly in a straight line for a distance of 150 feet, more or less, to the center of a spring located on the northerly line of said property conveyed to C. G. Dawson and A. L. Hart by Jennie Franklin Carruth; thence running in a westerly and northwesterly direction along the northerly line of said property conveyed by Mrs. Jennie Franklin Carruth for a distance of 130 feet, more or less, to the easterly side of Ball Ground Street and the point of beginning. This being a triangular shaped lot off of the northerly side of the property conveyed to C. G. Dawson and A. L. Hart by Mrs. Jennie Franklin Carruth by Warranty Deed dated September 23, 1957, and recorded in Deed Book 428, page 251, Cobb County Records. Said triangular shaped lot fronting 49 feet on Ball Ground Street.

AND LESS AND EXCEPT:

All that tract or parcel of land lying and being in Land Lot 138 of the 20th District, 2nd Section, Cobb County, Georgia, and being more particularly described as follows:

BEGINNING at a point on the northeasterly right of way of State Route 293, having a 50 foot right of way, where said right of way intersects the extended northeast right of way of Sardis Street, having a 50 foot right of way; running thence North 43 degrees 06 minutes 07 seconds West 39.84 feet to a nail; thence North 78 degrees 59 minutes 48 seconds East 424.83 feet to an iron pin; thence South 33 degrees 50 minutes 02 seconds West 179.85 feet to an iron pin; thence south 17 degrees 57 minutes 15 seconds West 100 feet to a point on the northeast right of way of State Route 293; thence northwesterly along said right of way on an arc 293.30 feet to the POINT OF BEGINNING; said arc having a radius of 746.20 feet and a chord running North 62 degrees 23 minutes 30 seconds West 291.39 feet, all comprising 0.966 acres, as is more particularly shown on that plot of survey for Rev. John E. Head, Sr., Pastor of Gates of Praise Tabernacle, by Guy B. Walls, III, R.L.S., dated April 7, 1963, which plot is incorporated herein by reference for a more complete description thereof.

Exhibit "A" (Page 2 of 2)

L E G A L   D E S C R I P T I O N

All that tract or parcel of land lying and being in Land Lot 138, District 20, 2nd Section, of Cobb County, Georgia, and being more particularly described as follows:

TO ARRIVE AT THE POINT OF BEGINNING, begin at the true point of beginning at the centerline of intersection of Sardis Street and South Main Street, having state plane coordinate N - 1462828.16 and E - 2161816.54; thence north 1 degree, 34 minutes, 20 seconds east, 50.84 feet to an iron pin set being the point of beginning:

THENCE North 18 degrees 10 minutes 23 seconds West for a distance of 328.70' feet to an IPS;

THENCE North 78 degrees 17 minutes 05 seconds East for a distance of 126.41' feet to sprhd;

THENCE South 70 degrees 31 minutes 30 seconds East for a distance of 113.88' feet to a 1/2" otf;

THENCE South 71 degrees 01 minutes 09 seconds East for a distance of 360.83' feet to a 3/4" otf;

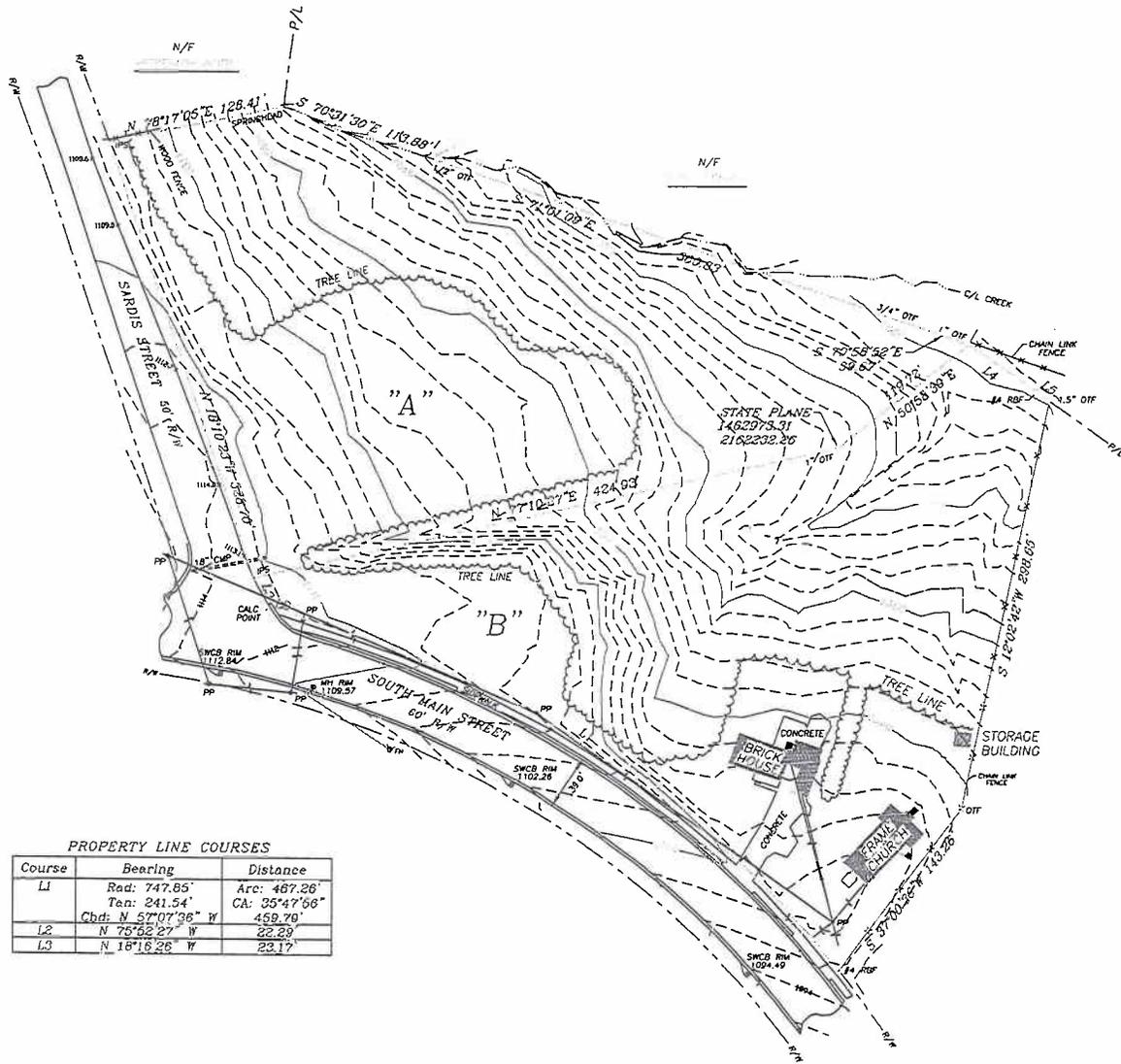
THENCE South 70 degrees 58 minutes 52 seconds East for a distance of 39.67' feet to a 1" otp;

THENCE South 50 degrees 58 minutes 39 seconds West for a distance of 119.72' feet to a 1" otp;

THENCE South 77 degrees 10 minutes 27 seconds West for a distance of 424.93' feet to an ips;

Together with and subject to covenants, easements, and restrictions of record.

Said property contains 2.65 acres more or less.



PROPERTY LINE COURSES

Course	Bearing	Distance
L1	Rad: 747.85' Tan: 241.54' Chd: N 57°07'36" W	Arc: 487.26' CA: 35°47'56" 459.70'
L2	N 75°52'27" W	22.29'
L3	N 18°18'26" W	23.17'

PROPERTY LINE COURSES

Course	Bearing	Distance
L4	S 54°17'40" E	58.79'
L5	S 55°10'03" E	10.20'

TRACT "A" CONTAINS  
2.654 ACRES

TRACT "B" CONTAINS  
2.489 ACRES

GRID NORTH  
NAD 1983  
GEORGIA  
WEST ZONE

SHEET 1 OF 1

2720 SOUTH MAIN STREET HOLDING

DATE: 08/23/88  
SCALE: 1" = 400'  
DATE: 08/23/88  
DATE: 08/23/88  
DATE: 08/23/88



F. Floyd & Associates, Inc.  
Land Surveyors  
P.O. Box 1119  
Oakwood, GA. 30566





# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1462 East Atlanta, Georgia 30334

Lonice C. Barrett, Commissioner

Environmental Protection Division

Carol A. Couch, Director

Hazardous Waste Management Branch

404/357-8600

March 25, 2004

## MEMORANDUM

**TO:** Tim Cash *TC*  
**THRU:** Alexandra Y. Cleary *AYC*  
**FROM:** Regina D. Campbell *RC*  
**RE:** Sardis Road Creosote Site  
Kennesaw, Cobb County, Georgia  
HSI Site No. 10347

**FILE COPY**

The Sardis Road Creosote Site was listed on the HSI in July 1994 due to a release of benzene in soil at concentrations exceeding a reportable quantity. The site is the location of a former sawmill operated between the late 1950s and late 1980s. Surface treating of lumber with creosote was performed for a short time in the early 1980s. In 1997, the buildings were demolished and removed from the site along with the remaining lumber and other debris. The site remains vacant.

In 1999, the presence of petroleum contamination was reported to the EPD Hazardous Site Response Program. Later investigations indicated that the release was associated with a leaking underground storage tank at the General Store across the street from the site. During an investigation in 1999, the EPD Underground Storage Tank Management Program (USTMP) identified two petroleum-contaminated creosote-related compounds. In coordination with EPD USTMP, a groundwater remediation system has been installed onsite to address the petroleum contamination.

On October 13, 2003, Mr. Raymond East submitted a Compliance Status Report (CSR) for the site documenting the extent of creosote-impacted contamination in soil and groundwater to background concentrations. The apparent source of contamination at the site was a small area in the central portion of the site where some creosote-treated scrap wood had been deposited. In September 2003, creosote-impacted soil and wood exceeding Type 1 residential cleanup standards were removed. An executed compliance status certification was included with the CSR. Vertical and horizontal delineation to background concentrations in soil and groundwater was completed.

On January 26, 2004, EPD issued a Notice of Deficiency (NOD) requesting additional information, revised tables and figures, and copies of notices. A response dated February 26, 2004, was submitted in response to EPD's NOD. A second NOD was issued on March 2, 2004 requesting a legal description of the property, a copy of the public notice from the Marietta Daily Journal, and corrections to a figure. On March 18, 2004, EPD received a response to the second NOD.

Based on the information cited above, the CSR is complete with respect to the requirements found in the Rules, and demonstrates that the site is in compliance with Type 1 risk reduction standards. Therefore, pursuant to Section 391-3-19-.06(6)(b)(1) and Section 391-3-19-.05(4)(b) of the Rules, the site is recommended for removal from the HSI.

CC: Keriema Newnan, EPD Underground Storage Tank Management Program

File: HSI Site 10347

S:\DRIVE\REGINA\Sites\10347 - SARDISRD\MEMO\_Delisting.doc



**FILE COPY**

March 18, 2004

Ms. Alexandra Cleary  
Georgia Environmental Protection Division  
Hazardous Site Response Program  
205 Butler Street, Floyd Towers East  
Atlanta, Georgia 30334

**RECEIVED**

**MAR 19 2004**

**HAZ. SITES RESPONSE PROG.**

**Subject: Compliance Status Report  
Response to Comments  
Sardis Road Creosote Site  
Kennesaw, Georgia  
HSI Site No. 10347**

Dear Ms. Cleary:

On behalf of Mr. Raymond East, Jr., MACTEC Engineering and Consulting, Inc. has prepared this response to comments by the GA-EPD regarding the Compliance Status Report (CSR) for the subject Site dated October 13, 2003. The EPD issued a Notice of Deficiency letter dated March 2, 2004, requesting revisions to the CSR by March 19, 2004. This letter responds to the comments presented by the EPD in their March 2, 2004 letter.

RESPONSE TO NOTICE OF DEFICIENCY

EPD's comments and our responses to them are discussed in the order in which they appeared in EPD's letter dated March 2, 2004.

General

**Comment No. 1:** *In accordance with Section 391-3-19-.06(3)(b)(5), the CSR must include a legal description of the property and the property owners name, address and telephone number. Please provide.*

**Response:** The site is located at the corner of South Main Street and Sardis Road, Kennesaw, Cobb County, Georgia (Tax Map 138-20-2, Parcels 50 and 66). The property is owned by Mr. Raymond East, Jr., 4421 Thomas Drive, Unit 402, Panama City, Florida 32408, (850) 814-5051. A legal description of the property is attached.

**FILE**  
10347

**Comment No. 2:** *In accordance with Section 391-3-19-.06(5)(a), please provide a copy of the public notice from the Marietta Daily Journal.*

**Response:** A copy of the public notice as published in the Marietta Daily Journal is attached. The notice was published on March 5 and March 12, 2004.

**Comment No. 3:** *There are two typographic errors on the cross-section provided in Figure 8. Concentrations of chloroform at P2MW-4 and 1,1,2-trichlorotrifluoroethane at P2MW-5 are incorrect. Please provide a revised Figure 8.*

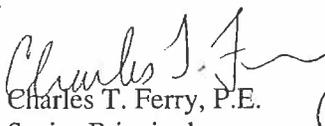
**Response:** The revised Figure 8 is attached.

Please contact us if further information or clarification is necessary.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

  
Stephen R. Foley, P.G.  
Senior Geologist

  
Charles T. Ferry, P.E.  
Senior Principal

h:\...sfoley\Sardis Road\Response to Notice of Deficiency - 3-04

Attachments

## TRACT II

All that tract or parcel of land lying and being in Cobb County, Georgia, and in the Town of Kennesaw, and in Land Lot No. 138, 20<sup>th</sup> District and 2<sup>nd</sup> Section, and more particularly described as follows:

COMMENCING at a point on the East side of Ball Ground Street and at the Southwest corner of the Janie Oliver lot and running Easterly along the Janie Oliver Land 150 feet, more or less, to the center of a spring; thence on Easterly 50 feet, more or less, along the center of the branch to an iron stake; thence Southerly along the property of Mariah Jackson, et al. 420 feet, more or less, to U.S. Highway 41; thence Westerly along U.S. Highway 41, 200 feet, more or less, to Ball Ground Street; thence Northerly along the East side of Ball Ground Street 350 feet, more or less, to point of beginning.

This being the same property as that conveyed by Miss Burnette Hamby to Mrs. Jennie Franklin Carruth by Warranty Deed dated January 10, 1950, and recorded in Deed Book 213, Page 39 in Cobb County Records.

### LESS AND EXCEPT:

All that tract or parcel of land lying and being in Land Lot 138, 20<sup>th</sup> District, 2<sup>nd</sup> Section, Cobb County, Georgia, and being in the Town of Kennesaw and being more particularly described as follows:

BEGINNING on the easterly side of Ball Ground Street at the northwest corner of property conveyed to C.G. Dawson and A.L. Marr by Mrs. Jennie Franklin Carruth by Warranty Deed dated September 23, 1957, and recorded in Deed Book 426, page 251, Cobb County Records, being also the southwestern corner of property now for formerly known as the Janie Oliver Lot, and running thence southerly along the easterly side of Ball Ground Street for a distance of 48 feet to a point and corner; thence running Easterly in a straight line for a distance of 150 feet, more or less, to the center of a spring located on the northerly line of said property conveyed to C.G. Dawson and A.L. Marr by Jennie Franklin Carruth; thence running in a westerly and northwesterly direction along the northerly line of said property conveyed by Mrs. Jennie Franklin Carruth for a distance of 150 feet, more or less, to the easterly side of Ball Ground Street and the point of beginning. This being a triangular shaped lot off of the northerly side of the property conveyed to C.G. Dawson and A.L. Marr by Mrs. Jennie Franklin Carruth by Warranty Deed dated September 23, 1957, and recorded in Deed Book 426, page 251, Cobb County Records. Said triangular shaped lot fronting 48 feet on Ball Ground Street.

### AND LESS AND EXCEPT:

All that tract or parcel of land lying and being in Land Lot 138, 20<sup>th</sup> District, 2<sup>nd</sup> Section, Cobb County, Georgia, and being in the Town of Kennesaw and being more particularly described as follows:

BEGINNING at a point on the northeasterly right of way of State Highway 293, having a 60 foot right of way, where said right of way intersects the extended northeast right of way of Sardis Street, having a 50 foot right of way; running thence North 45 degrees 04 minutes 07 seconds West 38.84 feet to a nail; thence North 78 degrees 59 minutes 48 seconds East 424.83 feet to an iron pin; thence South 33 degrees 50 minutes 02 seconds West 179.45 feet to an iron pin; thence south 17 degrees 52 minutes 15 seconds West 100 feet to a point on the northeast right of way of State Route 293; thence northwesterly along said right of way on an arc 293.30 feet to the POINT OF BEGINNING; said arc having a radius of 746.2 feet and a chord running North 62 degrees 23 minutes 50 seconds West 291.39 feet, all comprising 0.966 acres, as is more particularly shown on that plat of survey for Rev. John E. Head, Sr., Pastor of Gates of Praise Tabernacle, by Guy H. Wells, III, R.L.S. dated April 2, 1983, which plat is incorporated herein by reference for a more complete description thereof.

M-190  
NOTICE

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed the Sardis Road Creosote Site on the Hazardous Site Inventory (Site No. 10347) pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. The site is located at the corner of South Main Street and Sardis Road, Kennesaw, Cobb County, Georgia (Tax Map 138-20-2, Parcels 50, 66 and 210). The property is owned by Mr. Raymond East, Jr., 4421 Thomas Drive, Unit 402, Panama City, Florida 32408, (850) 814-5051.

As required by the Rules for Hazardous Site Response, the responsible party for this site was required to investigate the site and submit a compliance status report to EPD summarizing the results of the investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at the site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report. The compliance status report can be viewed and copied at the EPD HSRA office located at 2 Martin Luther King, Jr. Drive, Suite 1462 East, Atlanta,

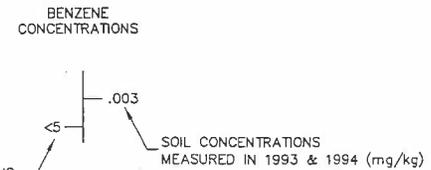
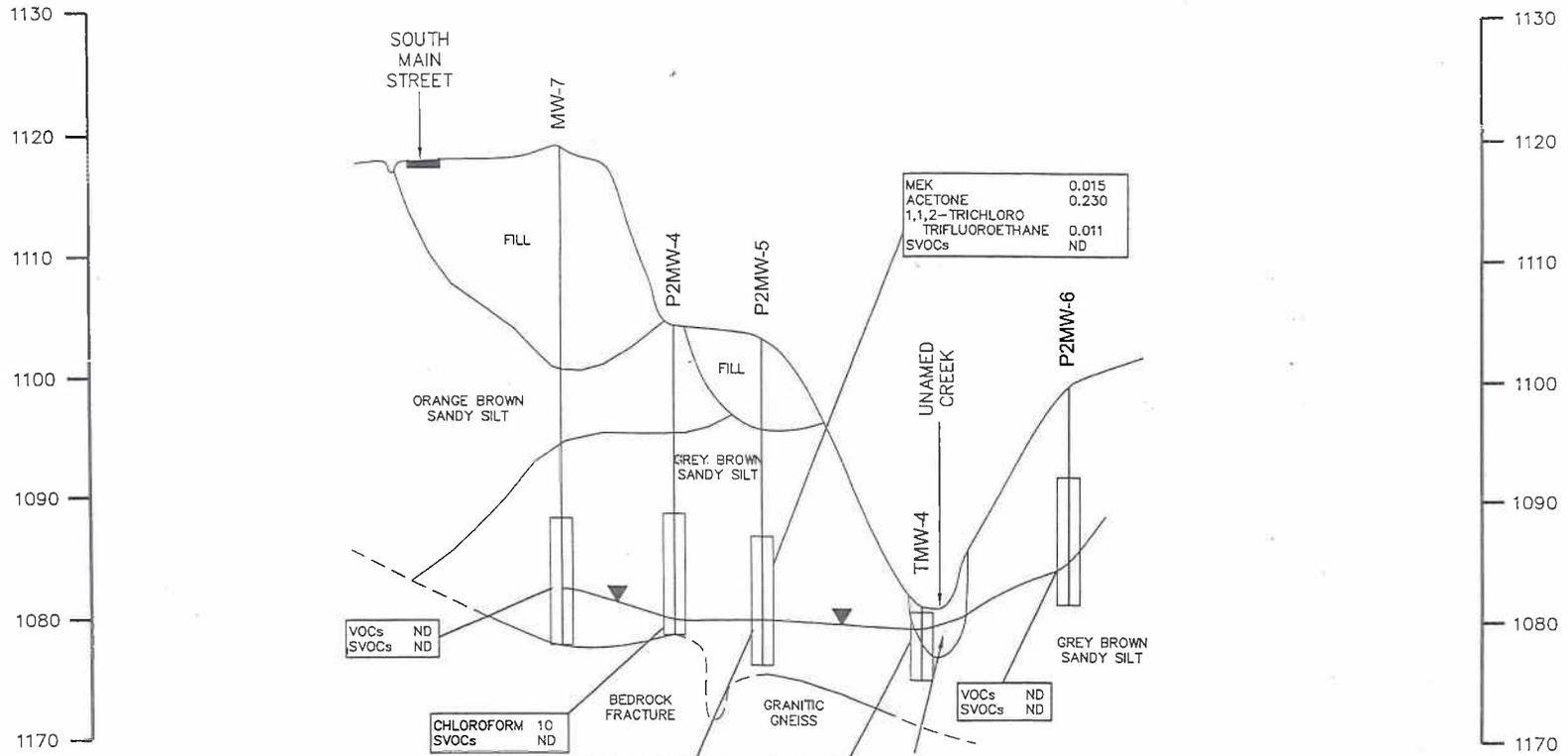
Miscellaneous

811

Georgia 30334. A 30-day comment period begins with the date of this published notice. Written or verbal comments can be made to Regina Campbell at the above referenced address or by calling (404) 657-8600. The contact person for the property owner can be reached by writing Mr. Charles Ferry at MACTEC Engineering and Consulting, Inc., 398 Plasters Avenue, Atlanta, Georgia 30324 or calling at (404) 817-0107.  
3:5,12

A

A'



GROUNDWATER CONCENTRATIONS  
MEASURED ON 8/12/99 (µg/L)

**LEGEND:**

- SCREENED INTERVAL
- WATER TABLE MEASURED ON 7/25/03
- NAP NAPHTHALENE
- 2-M-NAP 2-METHYL NAPHTHALENE
- BIS-2-EHP BIS (2-ETHYLHEXYL) PHTHALATE
- MEK METHYL ETHYL KETONE
- VOCs VOLATILE ORGANIC COMPOUNDS
- SVOCs SEMI-VOLATILE ORGANIC COMPOUNDS

SOURCE: CORRECTIVE ACTION PLAN - PART B, SAILORS ENGINEERING ASSOCIATES, 2001

CROSS SECTION A-A'

SARDIS ROAD SITE  
KENNESAW, GEORGIA; COBB COUNTY  
HSI SITE No. 10347

MACTEC Engineering and Consulting, Inc.  
396 PLASTERS AVENUE NE.  
ATLANTA, GEORGIA 30324  
(404)873-4761

Job Number	Task	Date	Scale	Drawn	Approx.	Figure
6305-03-0070	01	OCT. 2003	N.T.S.	RBT		8

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1462 East, Atlanta, Georgia 30334  
Lonice C. Barrett, Commissioner  
Environmental Protection Division  
Carol A. Couch, PhD, Director  
404/657-8600

March 2, 2004

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

**FILE COPY**

Raymond East Jr.  
4421 Thomas Drive Unit 402  
Panama City, FL 32408

Re: Sardis Road Creosote Site  
HSI Site No. 10347

Dear Mr. East:

The Georgia Environmental Protection Division (EPD) has reviewed the response to EPD's Notices of Deficiencies (NOD) dated January 26, 2004 for the Compliance Status Report (CSR) dated October 13, 2003 submitted by Mactec on behalf of Raymond East for the above-referenced site. The following remaining deficiencies must be addressed:

1. In accordance with Section 391-3-19-.06(3)(b)(5), the CSR must include a legal description of the property and the property owner's name, address and telephone number. Please provide.
2. In accordance with Section 391-3-19-.06(5)(a), please provide a copy of the public notice from the Marietta Daily Journal.
3. There are two typographic errors on the cross-section provided in Figures 8. Concentrations of chloroform at P2MW-4 and 1,1,2-Trichlorotrifluoroethane at P2MW5 are incorrect. Please provide a revised Figure 8.

By no later March 19, 2004, please submit information requested above. If you have any questions, please contact Ms. Regina Campbell at (404) 657-8600.

Sincerely,

  
Alexandra Y. Cleary  
Unit Coordinator  
Hazardous Sites Response Program

c: Charles Ferry, Mactec

File: Site 10347

S:\RDRIVE\REGINA\Sites\10347 - SARDISRD\CSR NOD 2.doc



FILE COPY

February 26, 2004

Ms. Alexandra Cleary  
Georgia Environmental Protection Division  
Hazardous Site Response Program  
205 Butler Street, Floyd Towers East  
Atlanta, Georgia 30334

HAZ. SITES RESPONSE PROG.

FEB 26 2004  
RECEIVED

**Subject: Compliance Status Report  
Response to Comments  
Sardis Road Creosote Site  
Kennesaw, Georgia  
HSI Site No. 10347**

Dear Ms. Cleary:

On behalf of Mr. Raymond East, Jr., MACTEC Engineering and Consulting, Inc. (MACTEC) has prepared this response to comments by the GA-EPD regarding the Compliance Status Report (CSR) for the subject Site dated October 13, 2003. The EPD issued a Notice of Deficiency letter dated January 26, 2004, requesting revisions to the CSR by February 26, 2004. This letter responds to the comments presented by the EPD in their January 26, 2004 letter.

RESPONSE TO NOTICE OF DEFICIENCY

EPD's comments and our responses to them are discussed in the order in which they appeared in EPD's letter dated January 26, 2004.

General

**Comment No. 1:** *EPD concurs with the argument that naphthalene and 2-methylnaphthalene in groundwater are a result of the petroleum release from The General Store. However, please note, it is incorrect to state that the constituents are not associated with creosote.*

**Response:** We acknowledge that naphthalene and 2-methylnaphthalene can be constituents of creosote. However, in Section 5.8 of the CSR, we point out that the distribution of these compounds closely corresponds with the distribution of petroleum constituents from the UST release at The General Store (both on-Site and off-Site). Therefore, our interpretation was that these compounds are not considered to be associated with the specific creosote release identified at the sawmill property.

FILE  
10347

**Comment No. 2:** *In accordance with Sec 391-3-19-.06(3)(b)(4) of the Rules, please provide a description of any environmental receptors that may have been or could potentially be exposed to a release at the site. Section 6.1 describes the potential human receptors and water usage, but does not discuss any environmental receptors.*

**Response:** The subject Site is located on the east side of a ridge with surface drainage toward a small stream located along the northern property boundary. Shallow groundwater from the subject Site discharges into the stream. The on-Site stream flows to the east-southeast toward Noonday Creek, approximately 2.5 miles east of the site. Noonday Creek enters Lake Allatoona, approximately 7.5 miles northeast of the Site. According to the GA-EPD's Site Inspection Report, the nearest wetland area to the Site is approximately 750 feet west of the site, which corresponds with the crest of a nearby ridgeline. Rather, our review of local topography and the National Wetlands Inventory Map indicates the nearest mapped wetland is a pond located approximately 2,000 feet east of the site. The stream crossing the northern portion of the site enters this pond, but is not designated as a wetland (or even as a surface water body) on the NWI map.

According to the Site Inspection report prepared by the GA-EPD, documented in Cobb County, but not at the subject Site, there are: three federally designated endangered species - the red-cockaded woodpecker, the gulf moccasin shell mussel, Michaux's Sumac; four federally designated threatened species - the bald eagle, the Cherokee darter, the highscale shiner and the monkey-faced orchid; two state designated endangered species - open-ground whitlow grass and dwarf sumac; and two state designated threatened species - the indian olive and the climbing magnolia.

In their 1999 Site Investigation, the GA-EPD collected surface water samples from several locations downstream of the subject Site. Several petroleum constituents, related to the UST release, were detected in the surface water samples tested. The sample collected furthest downstream, approximately 500 feet east of the site, exhibited only MTBE at a concentration of 40 ug/l. None of the surface water samples tested exhibited compounds believed to be associated with the creosote release rather than the UST release. Phenol was the only compound detected in groundwater on Site which is believed to be associated with the creosote release. Phenol was previously detected in two groundwater samples collected in the vicinity of the stream. The phenol concentrations (14 and 21 ug/l) were well below the Georgia In-Stream Water Quality standard of 4,600,000 ug/l. As discussed in more detail in Section 8.0, creosote-impacted soils have been remediated to below Type I risk reduction standards, thereby reducing the potential for future impact to groundwater or nearby surface water bodies.

Based on the information obtained, impact to environmental receptors related to creosote-impacted soil or surface water is considered unlikely due to the limited area of soil and groundwater impact and the very low concentrations of creosote constituents detected on Site.

**Comment No. 3:** *In accordance with Section 391-3-19-.06(3)(b)(5), please provide a legal description of the property and the property owner's name, address and telephone number.*

**Response:** The description of the property along with the owner's name, address and telephone number are included in the public notices to be submitted as described in Response No. 4.

**Comment No. 4:** *In accordance with Section 391 -3-19-.06(5)(a), within seven (7) days of submitting the CSR, Mr. East is required to publish a notice in both a major local newspaper of general circulation and the legal organ of the local governments in whose jurisdiction the site is located announcing that the CSR is available for inspection by the general public. The public notice must include all of the information required by Section 391-3-19-.06(5)(a) of the Rules. Please provide a copy of this notice.*

**Response:** Due to an administrative oversight, the required newspaper notices were not made at the time of the original CSR submission. The notice will be published in the Marietta Daily Journal. A copy of said notice is attached.

**Comment No. 5:** *In accordance with Section 391-3-19-.06(5)(e) of the Rules, within seven (7) days of submitting the CSR to EPD, Mr. East is required to provide notice of the CSR to Cobb County. The notice shall include all of the information required by Section 391-3-19-.06(5)(e) of the Rules. Please provide a copy of this notice.*

**Response:** Due to an administrative oversight, the required notice to Cobb County was not made at the time of the original CSR submission. As of the date of this report, letters have been submitted to Mr. Leonard Church, Mayor of Kennesaw and Mr. Sam Olens, Chairman of the Cobb County Board of Commissioners. Copies of said letters are attached.

**Comment No. 6:** *Data submitted for regulatory purposes shall be accepted by the Division only if the commercial analytical laboratory is approved in accordance with 391-3-26-.04 of the Rules for Commercial Environmental Laboratories at the time the tests are performed. Please note, the documentation failed to stipulate the scope of the accreditation relevant to the data submitted (such as drinking water, non-potable water, air, etc.) as required by Section 391-3-26-.05 of the Rules for Commercial Environmental Laboratories. However, EPD has verified that Accura Analytical Laboratory is approved for the appropriate scope.*

**Response:** The soil samples collected by MACTEC were submitted to Accura Analytical Laboratories for laboratory analysis. Accura Analytical Laboratories maintains a National Environmental Laboratory Accreditation Conference (NELAC) certification (EPA Lab Code GA00046) for the analysis of extractable organics (EPA Method 8270) in non-potable water. We note that the other laboratory data employed in the CSR is not subject to the Rules for Commercial Environmental Laboratories as the Rules went into effect in July 2000, after all other analyses had been conducted.

### Sampling

**Comment No. 7:** *Pursuant to Section 391-3-19-.06(3)(b)(2)(iv) of the Rules, please specify the method used to collect soil samples for VOC analysis (syringe/injection method or Encore method).*

**Response:** Samples were collected for VOC analysis in March and April 1994 by OHM and April 1999 by the GA-EPD. Samples collected for VOC analysis by OHM were collected in glass jars in accordance with SW-846 Method 5030, consistent with accepted protocols at that time. Samples collected by the GA-EPD for VOC analysis in April 1999 were collected in Encore sampling devices, in accordance with SW-846 Method 5035.

The CSR incorrectly stated on page 10 that SEA had tested soil samples from several test pits for VOCs in January 1999. These samples were tested for the presence of SVOCs and total petroleum hydrocarbons (TPH) only. No VOC testing was conducted. A corrected version of Page 10 is attached.

**Comment No. 8:** *Pursuant to Section 391-3-19-.06(3)(b)(3)(vi)(III) of the Rules, please specify what type of vials and bottles were used for each analysis of groundwater.*

**Response:** One liter glass bottles were used for the collection of groundwater samples for PAH analysis. 40 ml glass vials were used for the collection of groundwater samples for VOC analysis.

### Tables and Figures

**Comment No. 9:** *Please add to each table the depth at which the sample was collected, the method detection limit for the specific constituent, the site-specific background concentration for the constituent, and the applicable risk reduction standard.*

**Response:** The soil sampling depths have been added to all data summary tables. Individual constituents are reported as less than the detection limit (for example, <0.005 mg/l), where appropriate. Tentatively identified compounds do not have established detection limits and if undetected, are noted as "ND". As stated in Sections 4.3 and 5.7 of the CSR, because the compounds in question are not characteristic of naturally occurring conditions in the Piedmont, the site specific background concentrations are assumed

to be below laboratory detection limits. We note that due to differences in constituent concentrations, sample matrices and other factors, detection limits for specific constituents are not uniform for all samples.

*In addition, please make the following corrections to the applicable tables:*

- *Table 1 does not include all detected concentrations in soil from the April 1994 sampling event. Concentrations for benzo(a)pyrene, fluoranthene, pyrene, and 2-hexanone are missing from the table. In addition, the ninth column refers to benzo(b)anthracene instead of benzo(b)fluoranthene.*

**Response:** Table 1 has been corrected to include the missing data (see attached)

- *Table 5: chrysene at SC-3 is listed as "4,40" instead of "4.40".*

**Response:** Table 5 has been corrected (see attached).

- *Table 7 does not include all detected concentrations in groundwater from the April 1994 sampling event. Concentrations for tetrahydrofuran and bis(2-ethyl hexyl)phthalate are missing from the table. In addition, data for MW-3, MW- 1 and P-2 are missing from Table 8.*

**Response:** Table 7 has been revised to include the missing data (see attached).

- *The concentration for MW-3, MW-4, and MW-6 are not consistent between Table 8, Figure 11, and the data in Appendix B (i.e. data for MW-3, MW-4, and MW-6 in Table 8 and Figure 11 correlate with analytical pages for MW-4, MW-6, and MW-6 in Appendix B). It is unclear whether the error is with the laboratory package or with the table and figure. Please review and correct all tables and figures for consistency.*

**Response:** The SEA laboratory data package for the January 1999 sampling event is in error. Examination of the chain-of-custody records indicated that MW-3, MW-4 and MW-6 were sampled during the January 1999 sampling event. The laboratory reports include data from MW-4 and two reports for MW-6. No data for MW-3 is presented. Although the two MW-6 reports indicate identical sampling times and location, the data for the two MW-6 reports varies considerably. The data presented by MACTEC in the CSR is consistent with a data summary table compiled by SEA in their 1999 report. These data also correlate well with other data from the three wells in question collected by OHM in 1994 (MW-4) and GA-EPD in 1999 (MW-3 and MW-6). However, due to the uncertainty associated with the mislabeled results, the 1999 data from these three wells has been eliminated from the revised figures and tables (see attached). The elimination of this data does not have a material effect on the conclusions drawn in this document.

- *Table 9: Concentrations of o-xylene at MW-1, MW-6, and P2MW10-dup are incorrect.*

**Response:** Table 9 has been corrected (see attached).

- *Table 10: Concentrations of hexa-hydro-2h-Azepinzone at MW-6 and TMW-3 are switched.*

**Response:** Table 10 has been corrected (see attached).

- *All detected concentrations need to be compared to the applicable risk reduction standard in Tables 11 and 12.*

**Response:** Tables 11 and 12 have been revised to include Type 1 risk reduction standards for the non-petroleum, HSRA-regulated compounds detected on Site (see attached). The creosote-related compounds chrysene, pyrene and fluoranthene, were detected in soil in the area of the creosote release. The creosote-related compound phenol was detected in groundwater in this area. At EPD's instruction, RRS were not calculated for BTEX compounds (characteristic of gasoline) as these compounds result from the UST release. Also, RRS were not calculated for non-HSRA regulated compounds. The remaining compounds detected on the subject Site and listed in Tables 11 and 12 are not interpreted to be associated with the creosote release and, in our opinion, RRS for these compounds should not be applied to the subject release.

**Comment No. 10:** *When presenting the analytical results on figures, please do not use the notation of "ND" (not detected). The analytical results should specify the concentration detected or as less than the detection limit (for example, <0.003 mg/l). Please revise figures using this notation and make the following corrections to the applicable figures:*

**Response:** The notation of "ND" (not detected) has been eliminated for individual constituents on figures. We note that if an entire class of constituents (e.g., VOCs or SVOCs) is below detection limits, the "ND" notation is still used as the individual constituents within the class have different detection limits. The revised Figures 11 and 12 are attached.

- *Sample location CAB-02 is not illustrated on Figures 4, 7, 10, 11, and 12; and sample location MW-7 is not depicted on Figure 11. In addition, all concentrations detected in groundwater are not presented on Figure 11. Please provide revised figures, in accordance with Section 391-3-19-.06(3)(b)(3)(viii) of the Rules.*

**Response:** Sample location CAB-02 has been added to Figures 4, 7, 10, 11 and 12. Figure 11 has been revised to include the additional data (see attached).



In 1999 SEA conducted a limited Phase II environmental investigation of the site. This investigation involved the installation of seven test pits coupled with laboratory testing of selected soil samples. The test pits were located based on the results of a ground-penetrating radar survey which had been conducted by Westinghouse Remediation Services, Inc. in 1996. This survey had been intended to locate USTs or creosote pits associated with the former sawmill. Although no direct indications of such on-site features were identified, several areas of buried debris and one suspect pit were located.

The seven test pits were dug with a back-hoe to depths ranging from approximately two to seven feet. No obvious indications of creosoting operations were identified in any of the test pits. Six soil samples were collected for laboratory analysis at various depths from four of the test pits and tested for TPH and SVOCs. Although some TPH was identified in three of the six samples, no SVOCs were detected in the six samples tested. Based on these results, SEA concluded that there was no widespread area of creosote-affected soil on the subject Site.

The SEA soil testing results are summarized below in Table 2.

**TABLE 2**  
**SUMMARY OF SOIL LABORATORY TESTING RESULTS, mg/kg**  
**SEA DATA, JANUARY 1999**

Sample Location	Depth, Inches	Total Petroleum Hydrocarbons	Semi-Volatile Organic Compounds
TP-1	24	847	BDL
TP-1	40	84	BDL
TP-2	27	97	BDL
TP-3	12	NT	BDL
TP-6	60	NT	BDL
TP-6	84	NT	BDL

mg/kg - milligrams per kilogram (parts per million)  
BDL - Below detection limit

**TABLE 1 – SOIL TESTING RESULTS, mg/kg  
OHM DATA, APRIL 1994**

Sample Location	Depth, Ft.	Methyl Ethyl Ketone	Acetone	Methylene Chloride	2-Hexanone+	1,1,2-Trichloro- Trifluoroethane
P2MW-2	29-31	<0.091	0.891	<0.045	<0.045	<0.091
P2MW-5	24-26	0.015	0.230	<0.005	<0.005	0.011
P2MW-7	19-21	<0.096	0.538	<0.048	<0.048	<0.096
P-2	19-21	0.081	1.09	<0.005	0.007	0.018
P2SD1*	0.5	<1.17	<0.587	1.69	<0.587	<1.17
P2SD2*	0.5	<1.24	<0.622	<0.622	<0.622	<1.24
Type I RRS		200	400	0.5	NA	100,000

mg/kg - milligrams per kilogram (equivalent to parts per million)

\* - sediment sample

+ - Not a HSRA-regulated compound

NA - Not applicable

TABLE 2 – SOIL TESTING RESULTS, SEMI-VOLATILE ORGANIC COMPOUNDS, mg/kg  
OHM DATA, APRIL 1994

Sample Location	Depth, Ft.	Naphthalene	2-Methyl Naphthalene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Chrysene	Fluoranthene	Pyrene
P2MW-2	29-31	<0.333	<0.333	<0.333	<0.333	<0.333	<0.333	<0.333	<0.333
P2MW-5	24-26	<0.331	<0.331	<0.331	<0.331	<0.331	<0.331	<0.331	<0.329
P2MW-7	19-21	<0.329	<0.329	<0.329	<0.329	<0.329	<0.329	<0.331	<0.329
P-2	19-21	<0.332	<0.332	<0.332	<0.332	<0.332	<0.332	<0.332	<0.332
P2SD1*	0.5	2.65	5.50	0.395	0.363	0.930	0.769	0.751	0.738
P2SD2*	0.5	<1.64	4.49	<1.64	<1.64	<1.64	<1.64	<1.64	<1.64
Type 1 RRS		100	NA	5.0	1.64	5.0	5.0	500	500

mg/kg - milligrams per kilogram (equivalent to parts per million)

\* - sediment sample

NA - Not applicable

**TABLE 4 - SOIL TESTING RESULTS – VOLATILE ORGANIC COMPOUNDS, mg/kg  
GA-EPD DATA, APRIL 1999**

Sample Location	Depth, Ft.	Bromomethane	Acetone	Naphthalene	2-Hexanone <sup>+</sup>
1	Surface	<0.010	0.230	0.027	0.120
2	3	0.016	0.100	0.016	<0.050
3	Surface	0.013	<0.10	0.006	<0.050
4	3	<0.010	<0.10	<0.660	<0.050
5	Surface	0.015	0.120	0.006	<0.050
6	3	0.013	0.150	0.005	<0.050
7	Duplicate of 1	0.011	<0.10	0.005	<0.050
Type 1 RRS		1.0	400	100	NA

mg/kg - milligrams per kilogram (equivalent to parts per million)

+ - Not a HSRA-regulated compound

NA - Not applicable

**TABLE 4 (CONTINUED) - SOIL TESTING RESULTS - SEMI-VOLATILE ORGANIC COMPOUNDS, mg/kg  
GA-EPD DATA, APRIL 1999**

Sample Location	Depth, Ft.	Fluoranthene	Pyrene	Chrysene	Benzo(a) Anthracene	Benzo(k) fluoranthene	Benzo(b) fluoranthene	Benzo(a) Pyrene	Indeno (1,2,3-cd) pyrene	Benzo (g,h,i) perylene	Di-n-butyl Phthalate	Perylene+
1	Surface	2.70	<0.660	<0.660	2.00	2.60	3.30	1.70*	1.40	0.83	<0.900	1.60
2	3	1.30	1.40	1.40	<1.10	<1.10	1.30	<1.10	<1.10	<1.10	<2.0	BDL
3	Surface	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	1.10	BDL
4	3	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	BDL
5	Surface	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	BDL
6	3	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	BDL
7	Duplicate of 4	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	<0.660	BDL
Type 1 RRS		500	500	5.0	5.0	5.0	5.0	1.64	5.0	500	13.7	NA

mg/kg - milligrams per kilogram (equivalent to parts per million)

+ - Not a HSRA-regulated compound

NA - Not applicable

\* - These soils were removed during the soil remediation effort in September 2003

**TABLE 5 - SOIL TESTING RESULTS  
SEMI-VOLATILE ORGANIC COMPOUNDS, mg/kg  
MACTEC DATA, SEPTEMBER 2003**

Sample Location	Depth, Ft.	Chrysene	Fluoranthene	Pyrene
SC-1	1.0	<1.70	<1.70	<1.70
SC-2	1.0	<3.30	<3.30	<3.30
SC-3	1.0	4.40	3.80	4.70
SC-3A	3.0	<0.33	<0.33	<0.330
SC-4A	2.5	<0.33	<0.33	<0.330
Type I RRS		5.0	500	500

mg/kg - milligrams per kilogram (equivalent to parts per million)

**TABLE 7 - VOC AND SVOC CONCENTRATIONS IN GROUNDWATER, µg/l  
OHM DATA, 4/94 SAMPLING EVENT**

Well No.	Sampling Date	Methyl Ethyl Ketone	Acetone	Methylene Chloride	4-Chloroaniline	Naphthalene	2-Methyl Naphthalene+	Phenol	Bis(2-ethylhexyl) phthalate	Tetrahydrofuran
MW-4	4/94	<500	<250	309	74	240	158	<11	11	<250
TMW-1	4/94	<500	<250	<250	<11	221	71	<11	<11	<250
TMW-2	4/94	143	141	70	<11	117	34	<11	<11	<5
TMW-3	4/94	259	16	<5	<11	<11	<11	<11	<11	<5
TMW-4	4/94	133	353	258	<11	132	56	21	<11	<5
TMW-5*	4/94	141	8	<5	<11	26	<11	<11	<11	<5
TMW-6*	4/94	221	192	110	<11	40	13	<11	<11	<5
TMW-7	4/94	112	<5	<5	<11	<11	<11	<11	<11	7
P2MW-2	4/94	<1,000	811	<500	<11	237	197	<11	0.050	<5
P2MW-5	4/94	86	29	<5	<11	<11	<11	<11	<11	<5
Type I RRS		2,000	4,000	5	100	20	NA	4,000	6	DL

ug/l - micrograms per liter

+ - Not a HSRA-regulated compound

\* - Off-site well

NA - Not applicable

DL - Detection limit

**TABLE 8 – VOC AND SVOC CONCENTRATIONS IN GROUNDWATER, µg/l  
SEA DATA, 8/99 SAMPLING EVENT**

Well No.	Sampling Date	Methylene Chloride	Chloroform	Bis (2-ethyl hexyl phthalate)	Naphthalene	2-Methyl Naphthalene+	Phenol
MW-1	8/99	<500	<500	<10	350	120	<10
MW-2	8/99	<5	<5	<10	<10	<10	<10
MW-7	8/99	<5	<5	<10	<10	<10	<10
TMW-1	8/99	<250	<250	<15	250	66	<15
TMW-2	8/99	<5	<5	<10	66	19	14
TMW-3	8/99	<5	<5	28	<10	<10	<10
TMW-4	8/99	<5	<5	<10	44	49	<10
TMW-5*	8/99	5.2	<5	<10	17	<10	<10
TMW-6*	8/99	<5	<5	<10	60	25	<10
TMW-7	8/99	<5	<5	<10	<10	<10	<10
P2MW-1*	8/99	<10	<5	<10	<10	<10	<10
P2MW-3*	8/99	<11	<5	<10	<10	<10	<10
P2MW-4	8/99	<10	10	<10	<10	<10	<10
P2MW-5	8/99	<12	11	<10	<10	<10	<10
P2MW-6*	8/99	<5	<5	<10	<10	<10	<10
P2MW-7	8/99	<500	<250	<10	420	130	<10
P2MW-11	8/99	<250	<250	<10	560	160	<10
P-1	8/99	<1000	<500	<100	3500	3500	<100
P-2	8/99	<100	<100	<10	360	160	<10
Type 1 RRS		5	100	6	20	NA	4,000

ug/l - micrograms per liter

+ - Not a HSRA-regulated compound

\* - Off-site well

NA - Not applicable

**TABLE 9 - VOC CONCENTRATIONS IN GROUNDWATER, µg/l  
GA-EPD DATA, 4/99 SAMPLING EVENT**

Well No.	Sampling Date	Benzene●	Toluene●	2-Chloro toluene+	m,p-xylenes●	1,3,5-Trimethyl benzene+	n-Propyl benzene+	Ethyl-benzene●	Naphthalene●	Pentane*+	MTBE*+	Butane*+	o-xylene●	Isopropyl benzene●	1,2,4-Tri-methyl benzene+
MW-3**	4/99	260	<25	<25	30	<25	<25	40	97	180	280	220	<25	<25	97
P2MW-10	4/99	<25	<25	130	96	170	73	73	25	1,800	BDL	1,000	Trace	Trace	530
MW-1	4/99	2,800	13,000	<25	6,800	470	230	2,300	670	10,000	BDL	BDL	3400	79	1,700
MW-6**	4/99	160	<5	<5	<5	<5	<5	<5	9.7	120	BDL	240	6.5	Trace	<5
TMW-3	4/99	670	140	<25	180	722	<25	100	42	200	150	400	<25	<25	72
P2MW-5	4/99	<5	<5	<5	<5	<5	<5	<5	<5	BDL	BDL	BDL	<5	<5	<5
P2MW10-dup	4/99	<25	<25	<25	120	210	93	88	27	BDL	BDL	440	26	Trace	680
Type I RRS		NA	NA	NA	NA	NA	NA	NA	20	NA	NA	NA	NA	DL	NA

ug/l - Micrograms per liter

\* - Tentatively identified or estimated

+ - Non-HSRA regulated compound

\*\* - Off-site well

NA - Not applicable

DL - Detection limit

● - Gasoline constituent associated with upgradient UST release

**TABLE 10 - SVOC CONCENTRATIONS IN GROUNDWATER, µg/l  
GA-EPD DATA, 4/99 SAMPLING EVENT**

Well.No.	Sampling Date	Naphthalene	Acetophenone	n-Nitroso-di-n-butylamine	2-Methyl naphthalene+	Hexa-hydro-2h-Azepin-2-one*+	Bis-(2-ethyl-hexyl) phthalate	1-Methyl naphthalene*+	Decahydro-naphthalene*+
MW-3**	4/99	57	<10	<10	110	BDL	470	BDL	52
P2MW-10	4/99	32	<10	<10	120	BDL	140	12	BDL
MW-1	4/99	400	75	<10	88	BDL	32	BDL	BDL
MW-6**	4/99	<10	<10	<10	<10	14	57	BDL	BDL
TMW-3	4/99	24	<10	25	<10	BDL	<10	BDL	BDL
P2MW-5	4/99	<10	<10	<10	<10	BDL	46	BDL	BDL
P2MW10-dup	4/99	28	<10	<10	130	BDL	160	11	BDL
Type I RRS		20	4,000	0.006	NA	NA	6	NA	NA

- µg/l - Micrograms per liter
- \* - Tentatively identified or estimated
- + - Non HSRA-regulated compound
- \*\* - Off-site well
- NA - Not applicable

TABLE 11 - RISK REDUCTION STANDARDS FOR SOIL

Regulated Substance	Highest Concentration, mg/kg	Location	Type I RRS Criteria, mg/kg (Residential Default)
Fluoranthene	3.80	SC-3	500
Pyrene	4.70	SC-3	500
Chrysene	4.40	SC-3	5.0
Benzo(a)anthracene	2.0	GA-EPD Sample #1	5.0
Benzo(a)pyrene	1.7*	GA-EPD Sample #1	1.64
Benzo(b)fluoranthene	3.3	GA-EPD Sample #1	5.0
Benzo(k)fluoranthene	2.6	GA-EPD Sample #1	5.0
Benzo(g,h,i)perylene	0.83	GA-EPD Sample #1	500
Indeno(1,2,3-cd)pyrene	1.4	GA-EPD Sample #1	5.0
Naphthalene	0.027	GA-EPD Sample #1	100
Acetone	0.891	P2MW-2	400
Bromomethane	0.015	GA-EPD Sample #5	1.0
Methyl Ethyl Ketone	0.081	P-2	200
1,1,2-Trichlorotrifluoroethane	0.018	P-2	100,000

mg/kg - milligrams per kilogram (parts per million)

\* - These soils were removed during the soil remediation effort in September 2003

**TABLE 12 - RISK REDUCTION STANDARDS FOR GROUNDWATER**

Regulated Substance	Highest Concentration, ug/l	Location	Type 1 RRS Criteria, ug/l (Residential Default)
Phenol	21	TMW-4	4,000
Acetophenone	75	MW-1	4,000
Bis(2-ethylhexyl)phthalate	470	MW-3	6
4-Chloroaniline	74	MW-4	100
Naphthalene	3,500	P-1	20
Tetrahydrofuran	7	TMW-7	DL
n-Nitroso-di-n-butylamine	25	TMW-3	0.006
Acetone	811	P2MW-2	4,000
Chloroform	11	P2MW-5	100
Methylene Chloride	309	MW-4	5
Methyl Ethyl Ketone	259	TMW-3	2,000
Isopropyl Benzene	79	MW-1	DL

ug/l - micrograms per liter

## Sardis Road Creosote Site - Public Notice

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed the Sardis Road Creosote Site on the Hazardous Site Inventory (Site No. 10347) pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. The site is located at the corner of South Main Street and Sardis Road, Kennesaw, Cobb County, Georgia (Tax Map 138-20-2, Parcels 50, 66 and 210). The property is owned by Mr. Raymond East, Jr., 4421 Thomas Drive, Unit 402, Panama City, Florida 32408, (850) 814-5051.

As required by the Rules for Hazardous Site Response, the responsible party for this site was required to investigate the site and submit a compliance status report to EPD summarizing the results of the investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at the site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report. The compliance status report can be viewed and copied at the EPD HSRA office located at 2 Martin Luther King, Jr. Drive, Suite 1462 East, Atlanta, Georgia 30334. A 30-day comment period begins with the date of this published notice. Written or verbal comments can be made to Regina Campbell at the above referenced address or by calling (404) 657-8600. The contact person for the property owner can be reached by writing Mr. Charles Ferry at MACTEC Engineering and Consulting, Inc., 396 Plasters Ave., Atlanta, Georgia 30324 or calling at (404) 817-0107.



February 26, 2004

Mr. Leonard Church, Mayor  
City Hall  
2529 J.O. Stephenson Avenue  
Kennesaw, GA 30144  
Phone: (770) 424-8274  
Fax: (770) 429-4559

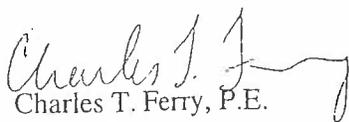
Dear Mr. Church:

The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed the Sardis Road Creosote Site on the Hazardous Site Inventory (Site No. 10347) pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. The site is located at the corner of South Main Street and Sardis Road, Kennesaw, Cobb County, Georgia (Tax Map 138-20-2, Parcels 50, 66 and 210). The property is owned by Mr. Raymond East, Jr., 4421 Thomas Drive, Unit 402, Panama City, Florida 32408, (850) 814-5051.

As required by the Rules for Hazardous Site Response, the responsible party for this site was required to investigate the site and submit a compliance status report to EPD summarizing the results of the investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at the site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report. The compliance status report can be viewed and copied at the EPD HSRA office located at 2 Martin Luther King, Jr. Drive, Suite 1462 East, Atlanta, Georgia 30334. A 30-day comment period begins with the date of this published notice. Written or verbal comments can be made to Regina Campbell at the above referenced address or by calling (404) 657-8600. The contact person for the property owner can be reached by writing Mr. Charles Ferry at MACTEC Engineering and Consulting, Inc., 396 Plasters Ave., Atlanta, Georgia 30324 or calling at (404) 817-0107.

Sincerely,

MACTEC Engineering and Consulting, Inc.

  
Charles T. Ferry, P.E.  
Senior Principal



February 26, 2004

Mr. Sam Olens, Chairman  
Cobb County Board of Commissioners  
Cobb County Government  
110 Cherokee Street  
Marietta, Georgia 30090

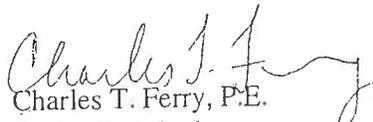
Dear Mr. Olens:

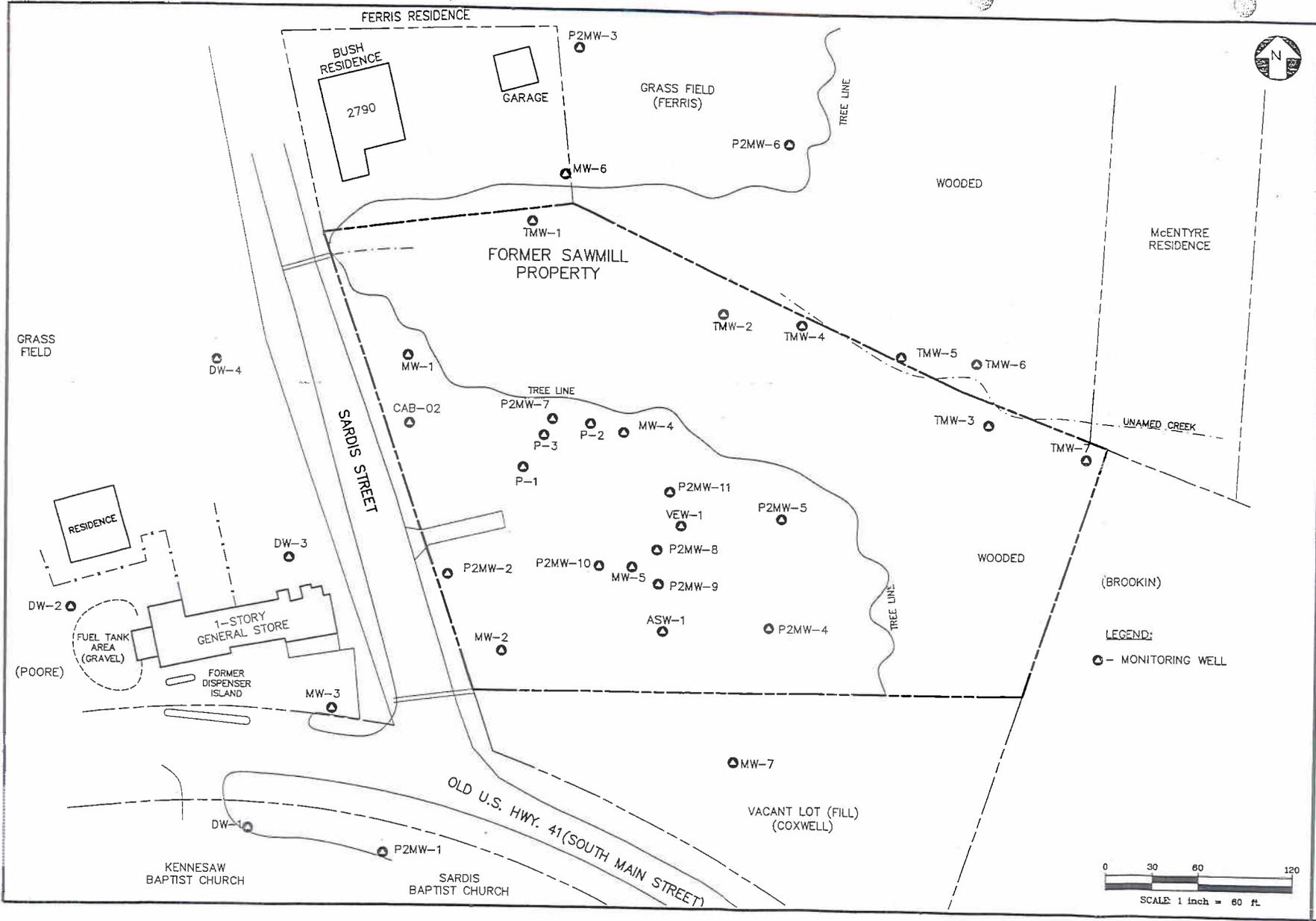
The Georgia Environmental Protection Division, Department of Natural Resources, State of Georgia (EPD) has placed the Sardis Road Creosote Site on the Hazardous Site Inventory (Site No. 10347) pursuant to its authority under the Hazardous Site Response Act and Rules promulgated thereunder. The site is located at the corner of South Main Street and Sardis Road, Kennesaw, Cobb County, Georgia (Tax Map 138-20-2, Parcels 50, 66 and 210). The property is owned by Mr. Raymond East, Jr., 4421 Thomas Drive, Unit 402, Panama City, Florida 32408, (850) 814-5051.

As required by the Rules for Hazardous Site Response, the responsible party for this site was required to investigate the site and submit a compliance status report to EPD summarizing the results of the investigation. EPD is currently reviewing the compliance status report to determine if corrective action is needed for regulated substances that have been released at the site. Before EPD decides whether corrective action is needed, the public has the opportunity to review the compliance status report and provide comments to EPD about the report. The compliance status report can be viewed and copied at the EPD HSRA office located at 2 Martin Luther King, Jr. Drive, Suite 1462 East, Atlanta, Georgia 30334. A 30-day comment period begins with the date of this published notice. Written or verbal comments can be made to Regina Campbell at the above referenced address or by calling (404) 657-8600. The contact person for the property owner can be reached by writing Mr. Charles Ferry at MACTEC Engineering and Consulting, Inc., 396 Plasters Ave., Atlanta, Georgia 30324 or calling at (404) 817-0107.

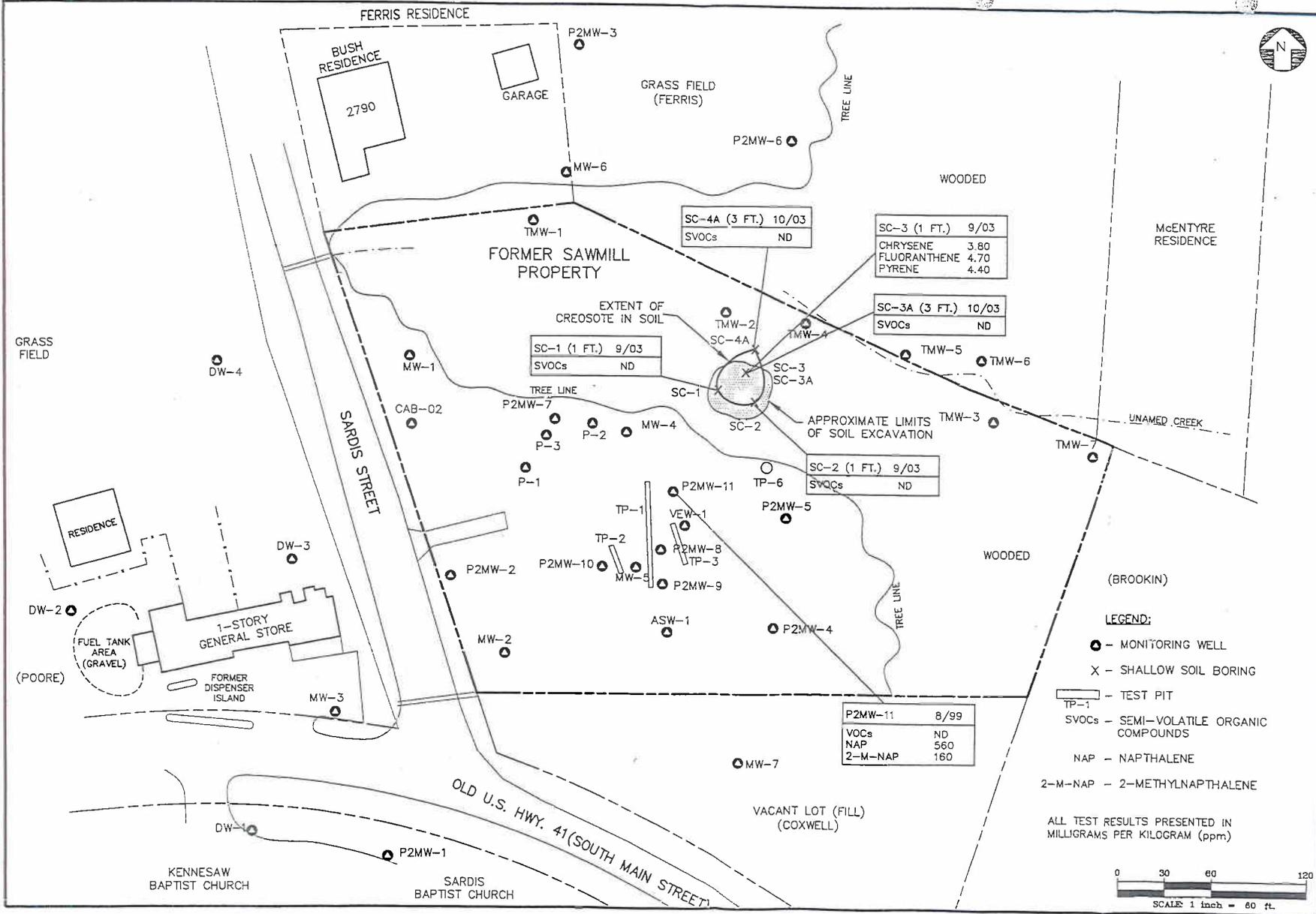
Sincerely,

MACTEC Engineering and Consulting, Inc.

  
Charles T. Ferry, P.E.  
Senior Principal



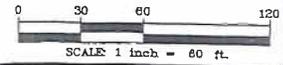
SARDIS ROAD SITE KENNESAW, GEORGIA; COBB COUNTY HSI SITE No. 10347		Scale AS SHOWN	Drawn RBT	Approved Figure 4
Job Number 6305-03-0070	Task 01	Date OCT. 2003	AS SHOWN	
MACTEC Engineering and Consulting, Inc. 386 PLASTERS AVENUE NE. ATLANTA, GEORGIA 30324 (404)873-4761				



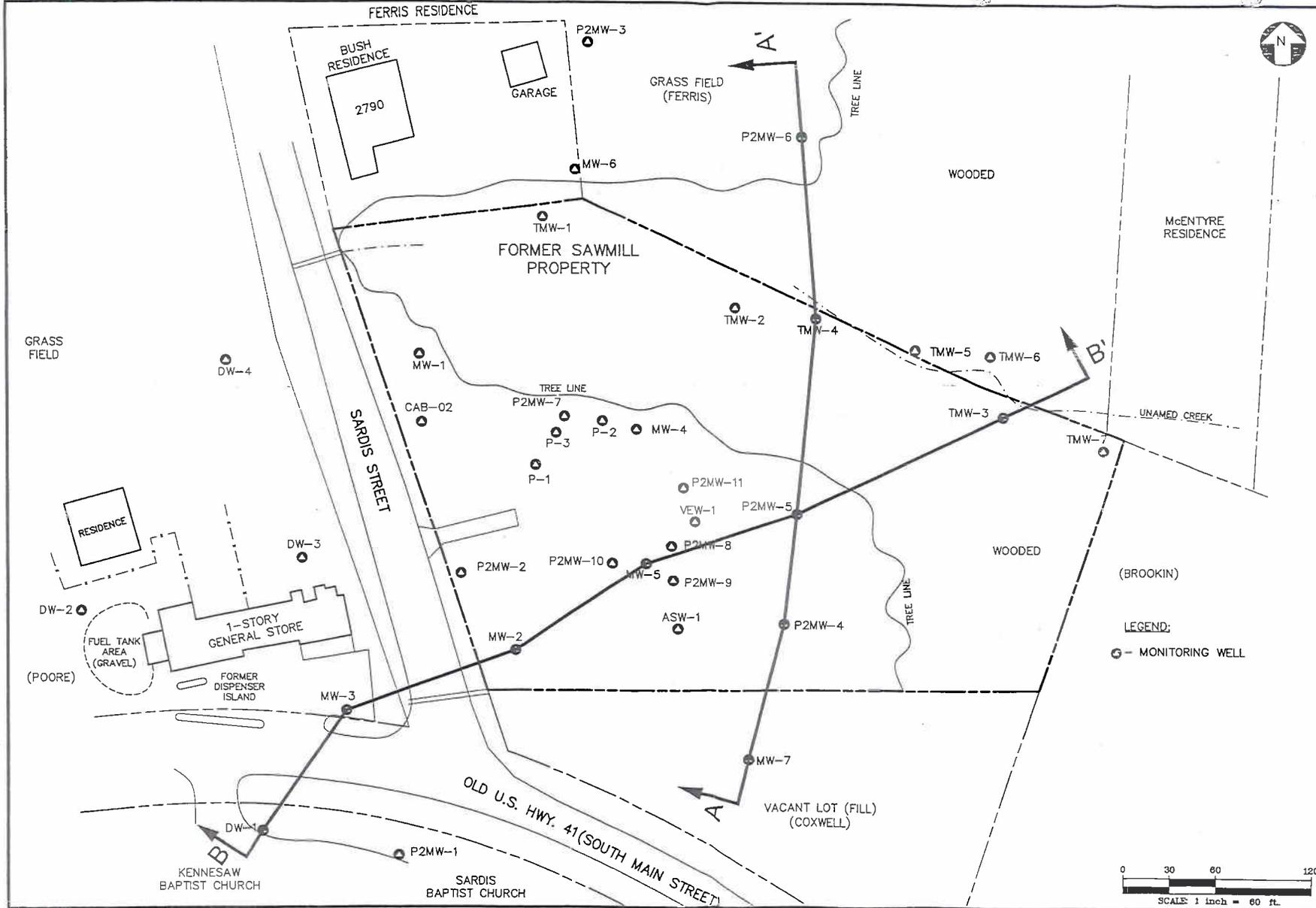
**LEGEND:**

- - MONITORING WELL
- X - SHALLOW SOIL BORING
- - TEST PIT
- TP-1
- SVOCs - SEMI-VOLATILE ORGANIC COMPOUNDS
- NAP - NAPHTHALENE
- 2-M-NAP - 2-METHYLNAPHTHALENE

ALL TEST RESULTS PRESENTED IN MILLIGRAMS PER KILOGRAM (ppm)



DELINEATION OF SOIL CONTAMINATION		Drawn	Approv.	Figure
SARDIS ROAD SITE KENNESAW, GEORGIA; COBB COUNTY HSI SITE No. 10347		Scale		
Job Number	Date	Task	AS SHOWN	
6305-03-0070	OCT., 2003	01		
MACTEC Engineering and Consulting, Inc. 396 PLASTERS AVENUE, N.E. ATLANTA, GEORGIA 30324 (404)873-4761		RBT		5

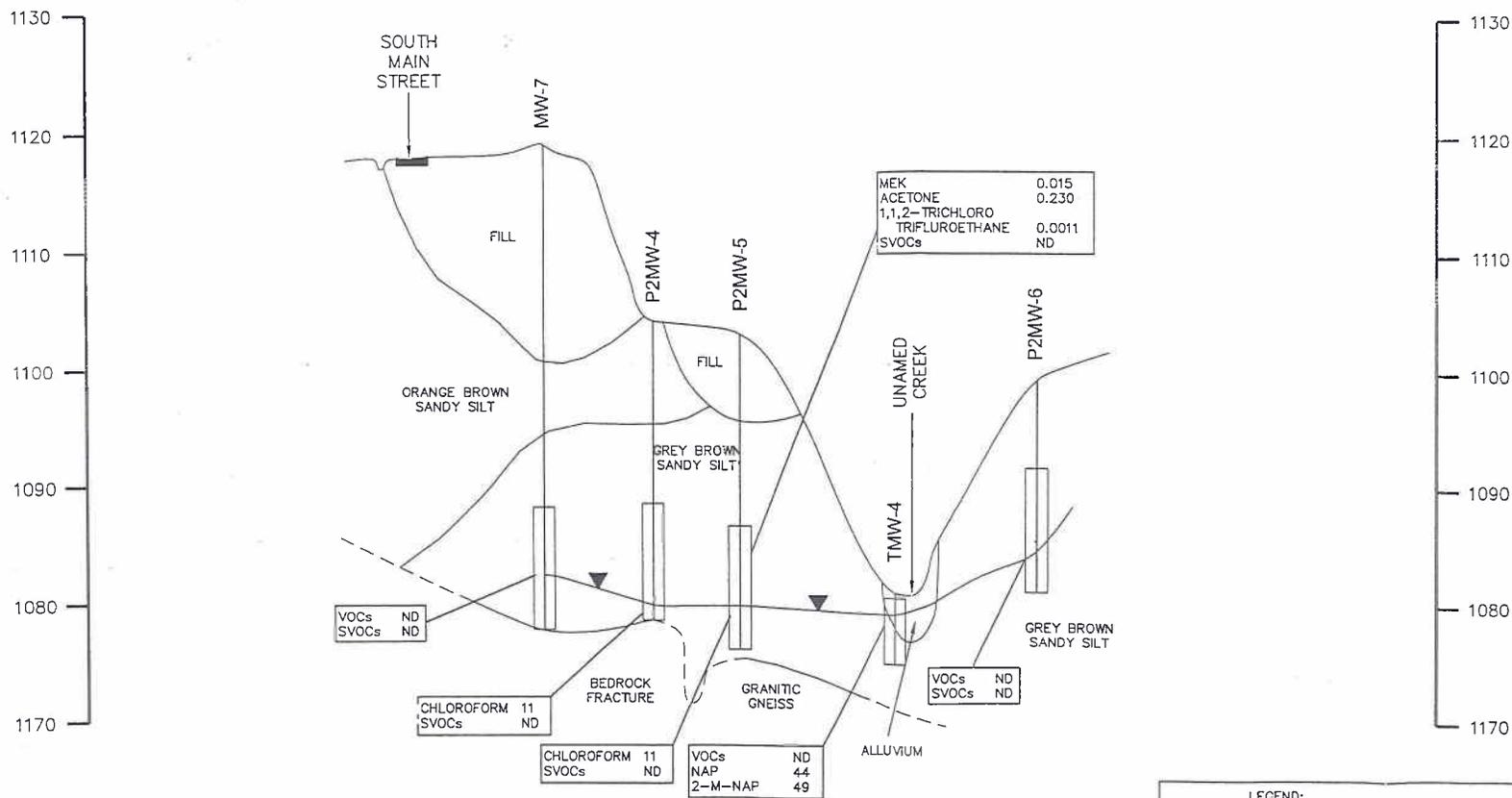


Job Number	6305-03-0070	Task	01	Date	OCT. 2003	Scale	AS SHOWN
Drawn	RBT	Approx.		Figure	7		
KENNESAW, GEORGIA; COBB COUNTY SARDIS ROAD SITE HSI SITE No. 10347							
LOCATION OF CROSS SECTION							

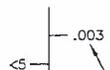
**MACTEC** Engineering and Consulting, Inc.  
 396 PLASTERS AVENUE NE.  
 ATLANTA, GEORGIA 30324  
 (404)873-4761

A

A'



BENZENE CONCENTRATIONS



GROUNDWATER CONCENTRATIONS MEASURED ON 8/12/99 ( $\mu\text{g/L}$ )

SOIL CONCENTRATIONS MEASURED IN 1993 & 1994 (mg/kg)

**LEGEND:**

- SCREENED INTERVAL
- WATER TABLE MEASURED ON 7/25/03
- NAP NAPHTHALENE
- 2-M-NAP 2-METHYL NAPHTHALENE
- BIS-2-EHP BIS (2-ETHYLHEXYL) PHTHALATE
- MEK METHYL ETHYL KETONE
- VOCs VOLATILE ORGANIC COMPOUNDS
- SVOCs SEMI-VOLATILE ORGANIC COMPOUNDS

SOURCE: CORRECTIVE ACTION PLAN - PART B, SAILORS ENGINEERING ASSOCIATES, 2001

**MACTEC** Engineering and Consulting, Inc.  
 386 PLASTERS AVENUE NE  
 ATLANTA, GEORGIA 30324  
 (404)873-4761

SARDIS ROAD SITE  
 KENNESAW, GEORGIA; COBB COUNTY  
 HSI SITE No. 10347

Job Number  
 6305-03-0070

Task  
 01

Date  
 OCT. 2003

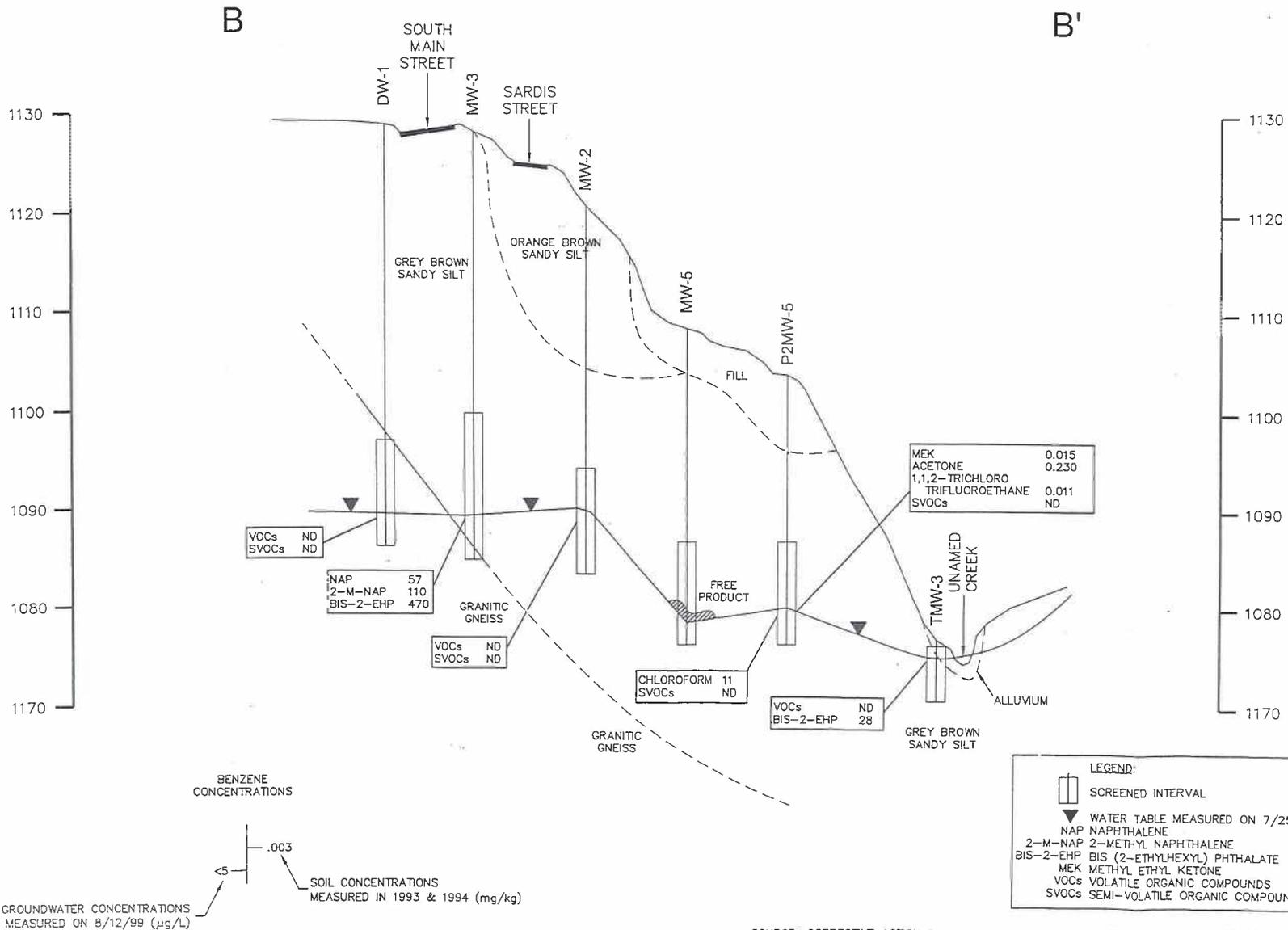
Scale  
 N.T.S.

Drawn  
 RBT

Approv.

Figure  
 8

CROSS SECTION A-A'



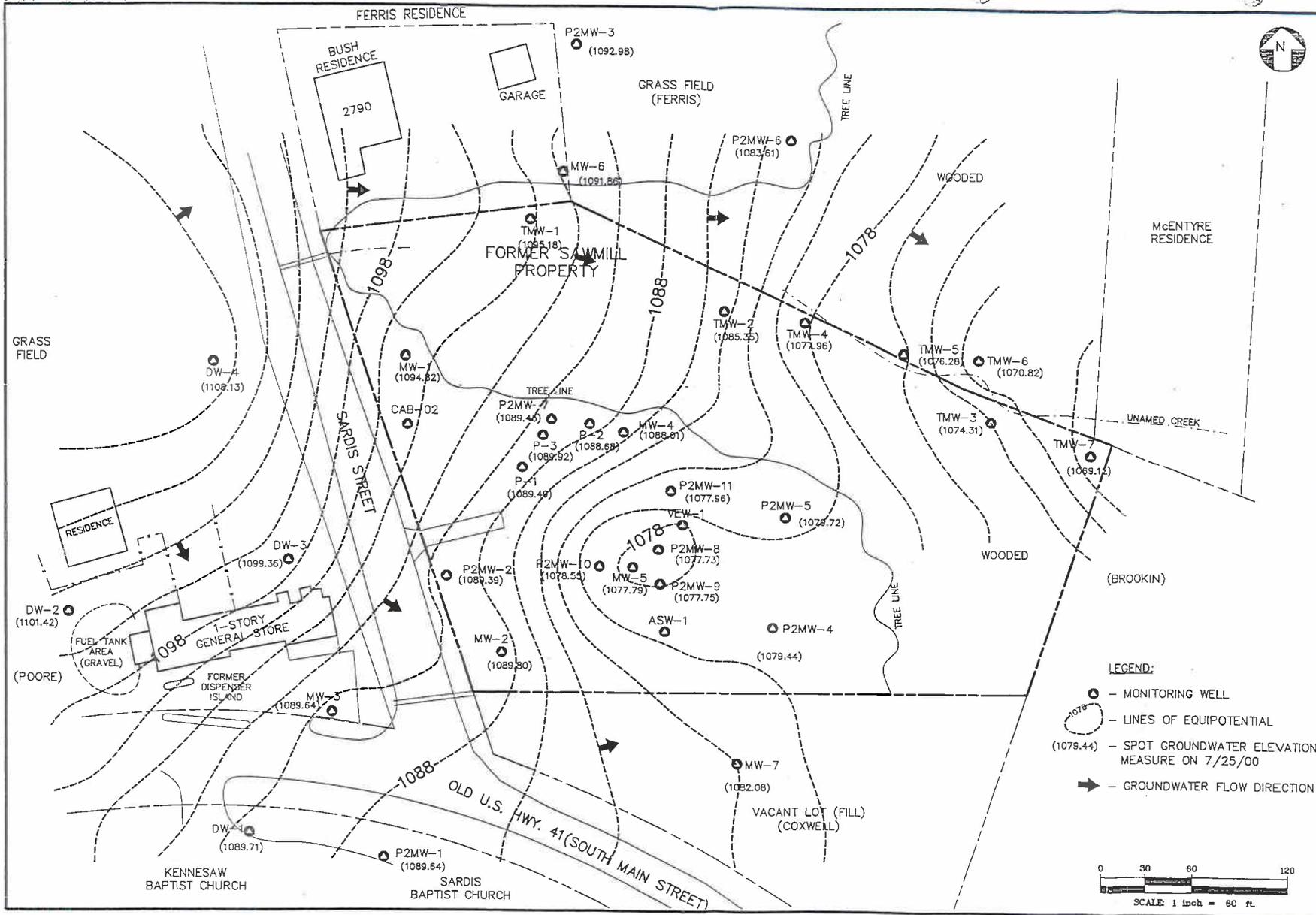
SOURCE: CORRECTIVE ACTION PLAN - PART B, SAILORS ENGINEERING ASSOCIATES, 2001

**MACTEC** Engineering and Consulting, Inc.  
396 PLASTERS AVENUE NE  
ATLANTA, GEORGIA 30324  
(404)873-4761

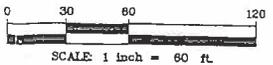
SARDIS ROAD SITE  
KENNESAW, GEORGIA; COBB COUNTY  
HSI SITE No. 10347

CROSS SECTION B-B'  
Drawn: RBT  
Approx: Figure 9

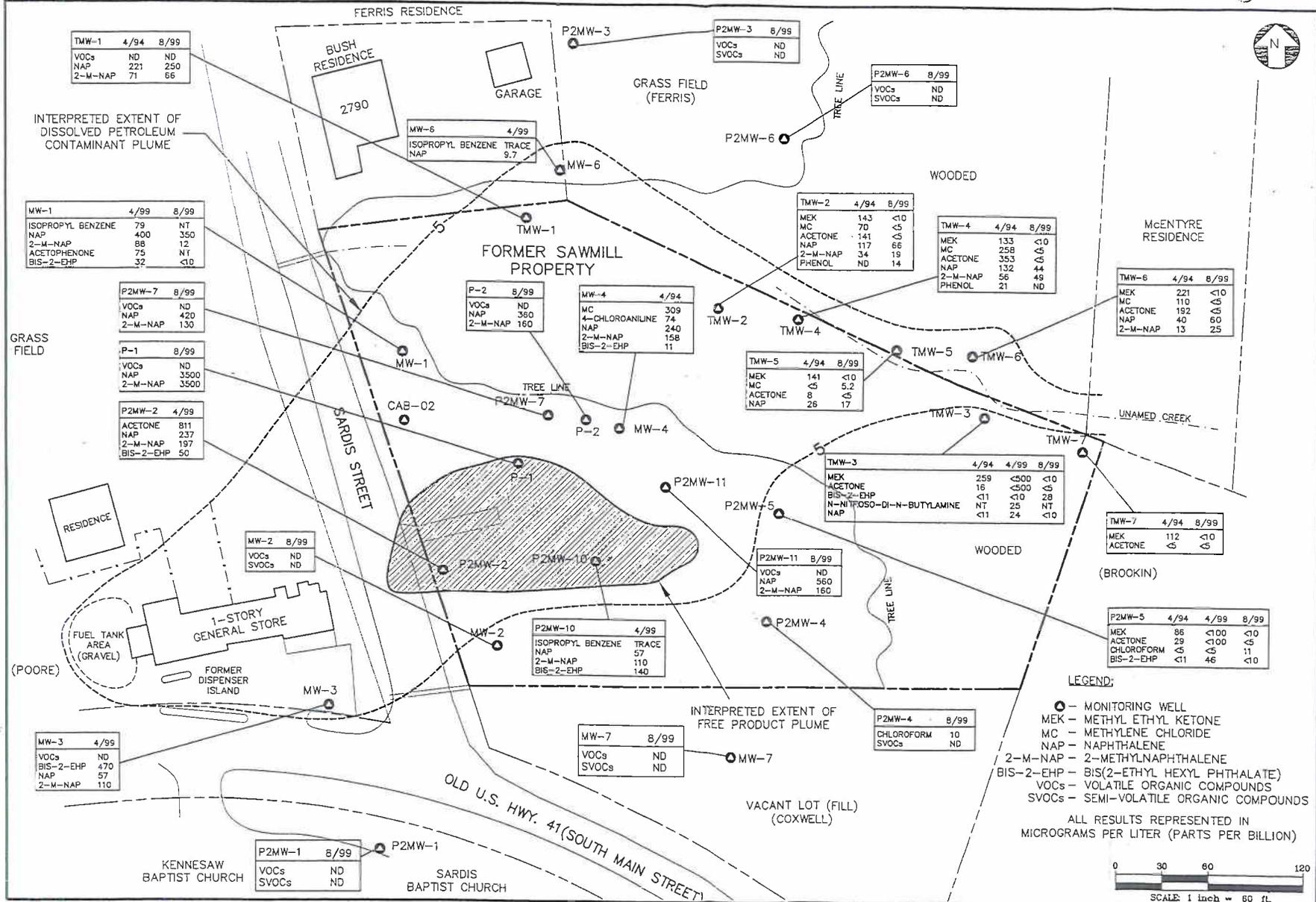
Job Number: 6305-03-0070  
Task: 01  
Date: OCT. 2003  
Scale: N.T.S.



- LEGEND:**
- - MONITORING WELL
  - - LINES OF EQUIPOTENTIAL
  - (1079.44) - SPOT GROUNDWATER ELEVATION MEASURE ON 7/25/00
  - - GROUNDWATER FLOW DIRECTION



POTENTIOMETRIC SURFACE MAP (7/25/00)		Drawn: RBT Approved:	Figure: 10
SARDIS ROAD SITE KENNESAW, GEORGIA; COBB COUNTY HSI SITE NO. 10347		Date: OCT. 2003 AS SHOWN:	Scale:
Job Number: 6305-03-0070	Task: 01	Date: OCT. 2003	AS SHOWN:
MACTEC Engineering and Consulting, Inc. 396 PLASTER AVENUE NE. ATLANTA, GEORGIA 30324 (404)873-4761			

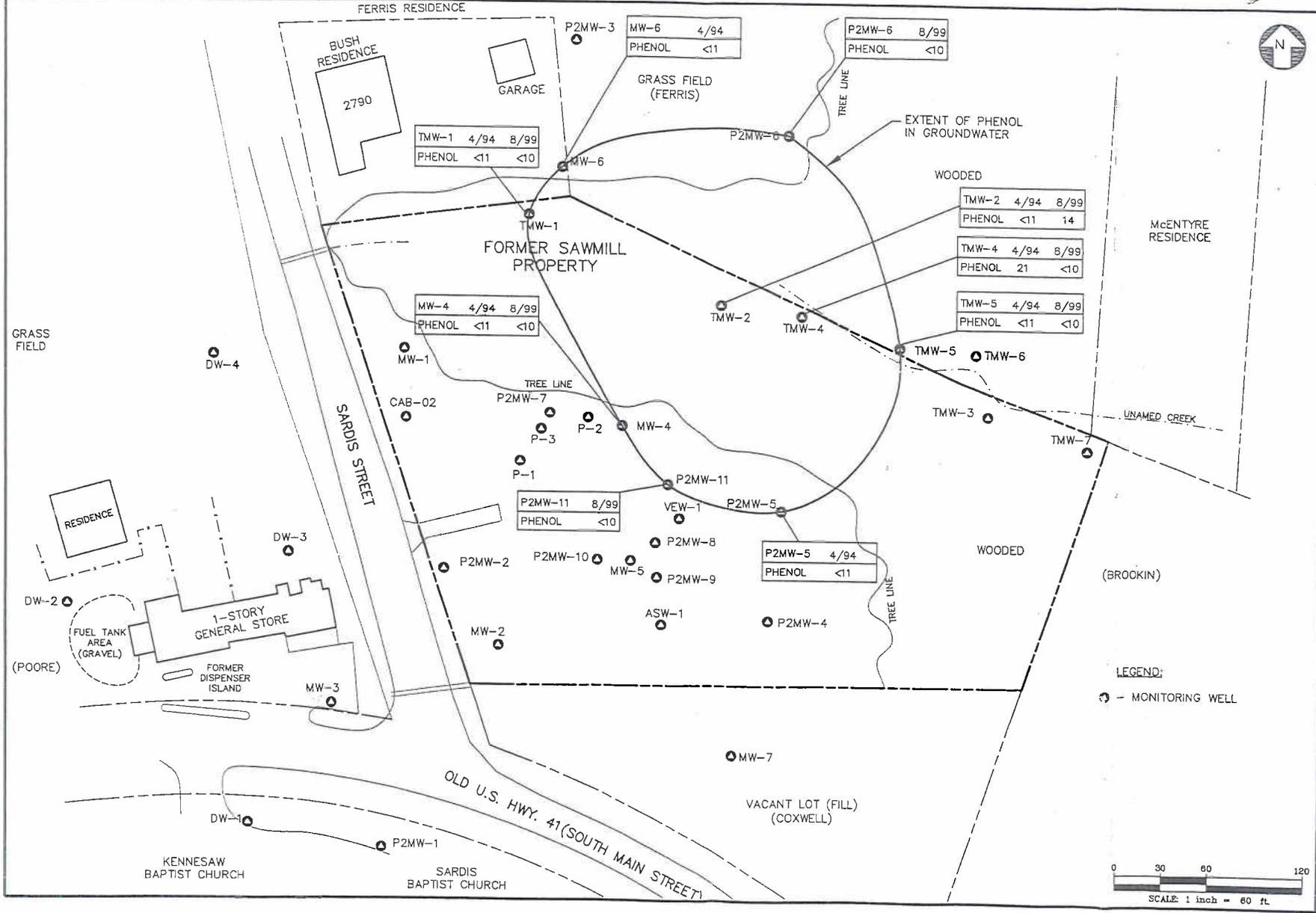


SUMMARY OF  
GROUNDWATER TESTING  
RESULTS

SARDIS ROAD SITE  
KENNESAW, GEORGIA; COBB COUNTY  
HSI SITE No. 10347

MACTEC Engineering and Consulting, Inc.  
396 PLASTER AVENUE NE.  
ATLANTA, GEORGIA 30324  
(404)873-4761

Job Number	6305-03-0070	Task	01	Date	OCT. 2003	Scale	AS SHOWN	Drawn	RBT	Figure	11
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DELINEATION OF PHENOL IN GROUNDWATER

SARDIS ROAD SITE  
 KENNESAW, GEORGIA, COBB COUNTY  
 HSI SITE No. 10347

MACTEC Engineering and Consulting, Inc.  
 396 PLASTERS AVENUE NE.  
 ATLANTA, GEORGIA 30324  
 (404)873-4761

Job Number	6305-03-0070	Task	01	Date	OCT. 2003	Scale	AS SHOWN	Drawn	RBT	Approved	Figure	12
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# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1462 East, Atlanta, Georgia 30334  
Lonice C. Barrett, Commissioner  
Environmental Protection Division  
Carol A. Couch, PhD, Director  
404/657-8600

January 26, 2004

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Raymond East Jr.  
4421 Thomas Drive Unit 402  
Panama City, FL 32408

**FILE COPY**

Re: Sardis Road Creosote Site  
HSI Site No. 10347

Dear Mr. East:

The Georgia Environmental Protection Division (EPD) has received and reviewed the Compliance Status Report (CSR) dated October 13, 2003 submitted by Mactec on behalf of Raymond East for the above-referenced site. The following deficiencies must be addressed:

## **General**

1. EPD concurs with the argument that naphthalene and 2-methyl naphthalene in groundwater are a result of the petroleum release from The General Store. However, please note, it is incorrect to state that the constituents are not associated with creosote.
2. In accordance with Section 391-3-19-.06(3)(b)(4) of the Rules, please provide a description of any environmental receptors that may have been or could potentially be exposed to a release at the site. Section 6.1 describes the potential human receptors and water usage, but does not discuss any environmental receptors.
3. In accordance with Section 391-3-19-.06(3)(b)(5), please provide a legal description of the property and the property owner's name, address and telephone number.
4. In accordance with Section 391-3-19-.06(5)(a), within seven (7) days of submitting the CSR, Mr. East is required to publish a notice in both a major local newspaper of general circulation and the legal organ of the local governments in whose jurisdiction the site is located announcing that the CSR is available for inspection by the general public. The public notice must include all of the information required by Section 391-3-19-.06(5)(a) of the Rules. Please provide a copy of this notice.
5. In accordance with Section 391-3-19-.06(5)(e) of the Rules, within seven (7) days of submitting the CSR to EPD, Mr. East is required to provide notice of the CSR to Cobb County. The notice shall include all of the information required by Section 391-3-19-.06(5)(e) of the Rules. Please provide a copy of this notice.
6. Data submitted for regulatory purposes shall be accepted by the Division only if the commercial analytical laboratory is approved in accordance with 391-3-26-.04 of the Rules for Commercial Environmental Laboratories at the time the tests are performed. Please note, the documentation failed to stipulate the scope of the accreditation relevant to the data submitted (such as drinking water, non-potable water, air, etc.) as required by Section 391-3-26-.05 of the Rules for Commercial Environmental Laboratories. However, EPD has verified that Accura Analytical Laboratory is approved for the appropriate scope.

### Sampling

7. Pursuant to Section 391-3-19-.06(3)(b)(2)(iv) of the Rules, please specify the method used to collect soil samples for VOC analysis (syringe/injection method or Encore method).
8. Pursuant to Section 391-3-19-.06(3)(b)(3)(vi)(III) of the Rules, please specify what type of vials and bottles were used for each analysis of groundwater.

### Tables and Figures

9. Please add to each table the depth at which the sample was collected, the method detection limit for the specific constituent, the site-specific background concentration for the constituent, and the applicable risk reduction standard. In addition, please make the following corrections to the applicable tables:
  - Table 1 does not include all detected concentrations in soil from the April 1994 sampling event. Concentrations for benzo(a)pyrene, fluoranthene, pyrene, and 2-hexanone are missing from the table. In addition, the ninth column refers to benzo(b)anthracene instead of benzo(b)fluoranthene.
  - Table 5: chrysene at SC-3 is listed as "4,40" instead of "4.40".
  - Table 7 does not include all detected concentrations in groundwater from the April 1994 sampling event. Concentrations for tetrahydrofuran and bis(2-ethyl hexyl)phthalate are missing from the table. In addition, data for MW-3, MW-7, P-1, and P-2 are missing from Table 8.
  - The concentration for MW-3, MW-4, and MW-6 are not consistent between Table 8, Figure 11, and the data in Appendix B (i.e. data for MW-3, MW-4, and MW-6 in Table 8 and Figure 11 correlate with analytical pages for MW-4, MW-6, and MW-6 in Appendix B). It is unclear whether the error is with the laboratory package or with the table and figure. Please review and correct all tables and figures for consistency.
  - Table 9: Concentrations of o-xylene at MW-1, MW-6, and P2MW10-dup are incorrect.
  - Table 10: Concentrations of hexa-hydro-2h-Azepinzone at MW-6 and TMW-3 are switched.
  - All detected concentrations need to be compared to the applicable risk reduction standard in Tables 11 and 12.
10. When presenting the analytical results on figures, please do not use the notation of "ND" (not detected). The analytical results should specify the concentration detected or as less than the detection limit (for example, < 0.003 mg/l). Please revise figures using this notation and make the following corrections to the applicable figures:
  - Sample location CAB-02 is not illustrated on Figures 4, 7, 10, 11, and 12; and sample location MW-7 is not depicted on Figure 11. In addition, all concentrations detected in groundwater are not presented on Figure 11. Please provide revised figures, in accordance with Section 391-3-19-.06(3)(b)(3)(viii) of the Rules.
  - The cross-sections provided in Figures 8 and 9 only depict benzene concentrations. Please provide revised cross-sections depicting concentrations for all non-petroleum related contaminants, in accordance with Section 391-3-19-.06(3)(b)(3)(x) of the Rules.

**Risk Assessment**

11. The site is being certified in compliance with Type 1 RRS. Therefore, Type 2 and 4 RRS need not be calculated. However, if soil and groundwater data are going to be compared to Type 2 and 4 RRS, all calculations must be provided.

**Typographic Errors**

12. Section 5.6.1: Refers to Section 6.3 for groundwater elevation discussion instead of Section 5.4.
13. Section 5.8: The second to last sentence on page 27: "This compound was not identified in either soil or groundwater samples tested from the subject site" contradicts the first sentence in the same paragraph that states "Chloroform was detected at low concentrations in two groundwater samples from the subject Site."

By no later February 26, 2004, please submit revised tables and figures, copies of notices, and a response that addresses each of the above deficiencies.

If you have any questions, please contact Ms. Regina Campbell at (404) 657-8600.

Sincerely,

  
Alexandra Y. Cleary  
Unit Coordinator  
Hazardous Sites Response Program

c: Charles Ferry, Mactec

File: Site 10347  
S:\RDRIVE\REGINA\Sites\10347 - SARDISRD\CSR NODrev3.doc

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

7002 0510 0004 2435 4535

Mr. Raymond East, Jr.  
1121 Thomas Drive  
Unit 102  
Panama City, FL 32408

Postmark  
Here

Ret  
(Endorse)

Restricted Delivery fee  
(Endorsement Required)

Total Postage & Fees

Sent To

*Mailed 1/25*

Street, Apt. No.,  
or PO Box No.

City, State, ZIP+4

PS Form 3800, January 2014

See Reverse for Instructions

*I havent  
received a  
green card  
on this  
K&K*

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1462 East, Atlanta, Georgia 30334  
Lonice C. Barrett, Commissioner  
Environmental Protection Division  
Harold F. Reheis, Director  
404/657-8600

June 13, 2003

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Raymond East Jr.  
4421 Thomas Drive Unit 402  
Panama City, FL 32408

**FILE COPY**

Re: Sardis Road Creosote Site  
HSI Site No. 10347

Dear Mr. East:

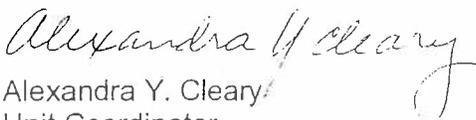
The Georgia Environmental Protection Division (EPD) has received your response to the Compliance Status Report (CSR) Call-in letter in which you infer the property was free of any compounds associated with creosote operations.

Based on our review of the data from the 1996 Ground Penetrating Radar Survey (GPR survey) by Westinghouse Remediation Services, the 1999 Site Inspection for the Sardis Road Creosote Site prepared by EPD, the 1999 Limited Phase II Environmental Investigation prepared by Sailors Engineering Associates (SEA), and the 2001 Corrective Action Plan Part-B for The General Store prepared by SEA, creosote constituents have been detected in soil east of MW-4 and in groundwater monitoring wells TMW-2 and TMW-4 south of the creek. The results of the GPR survey indicated the presence of fill material and that area was therefore characterized as the "suspected dipping pit." Subsequent investigation showed that this area did not contain constituents associated with creosote operations. However, based on verbal accounts obtained during an investigation conducted by the EPD's Emergency Response Team (ERT), creosote dipping was conducted in a tank. The suspected creosote-dipping tank was discovered by ERT in an area east of MW-4 at the edge of the wooded area, which is also the area where creosote constituents have been detected. Therefore, further investigation is necessary in this area of the site.

EPD is aware that the Kennesaw General Store is the responsible party for the petroleum release that has impacted your property. We are also aware that your property is currently undergoing corrective action by the Underground Storage Tank Management Program. However, the creosote release needs to be evaluated.

EPD anticipates receipt of the CSR and certification for the above referenced site by October 10, 2003. If you have any questions, please contact Ms. Regina Campbell at (404) 657-8600.

Sincerely,

  
Alexandra Y. Cleary  
Unit Coordinator  
Hazardous Sites Response Program

CC: Mike Haller, Sailors Engineering Associates, Inc.

File: Site 10347

S:\RDRIVE\REGINA\Sites\10347 - SARDISRD\CSR Call In letter response to East.doc

**FILE COPY**

June 5, 2003

Ms. Alexandra Y. Cleary  
Unit Coordinator  
Georgia Department of Natural Resources  
Environmental Protection Division  
2 Martin Luther King, Jr. Drive,  
Suite 1462 East  
Atlanta, GA 30334

**RECEIVED**

**JUN 09 2003**

**HAZ. SITES RESPONSE PROG.**

Certified Mail: 7002-2410-0006-2936-3405

Re: Sardis Road Creosote Site; HSI # 10347

Dear Ms. Cleary:

This letter responds to your letter of April 8, 2003 concerning the above referenced-site. I intend to comply with EPD's request and submit a CSR by October 10, 2003.

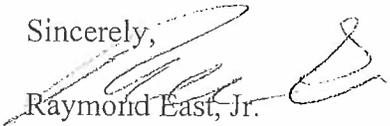
I believe that this CSR will demonstrate that the contamination present on the property which I own is the result of off site sources, including the release of petroleum products from the nearby Kennesaw General Store property. My property is currently undergoing corrective action by the USTMP for a release of petroleum products from the upgradient Kennesaw General Store, which is located at 2742 South Main Street. It is my understanding that, during investigations conducted by both the Georgia USTMP and HSRP, no petroleum fuel releases have been identified as originating from my property.

There has been conflicting information regarding the past use of creosote during the history of my property. An area was reported by Westinghouse Remediation Services, under contract to HSRP, to have been used sometime in the past for "creosote dipping". However, during investigations conducted prior to my purchase of the property in 1998, this area was investigated and found to be free of any compounds that could be associated with creosote operations. Based on the information currently available to me, I believe that my property is a property impacted solely by an upgradient source and therefore should either be delisted or designated as a "sublisted" property.

With regard to other responsible parties for the contamination at my property, the owner of the Kennesaw General Store, identified by the USTMP to have had a known release that has impacted my property, is the responsible party for the petroleum contamination detected.

If you have any additional questions, or need additional information, please contact me at your convenience.

Sincerely,

  
Raymond East, Jr.

**FILE**  
10347

Copy: Mike Haller, Sailors Engineering Associates, Inc.

Gerald L. Pouncey, Jr., Morris, Manning & Martin, L.L.C.

Email Copy: Ms. Alexandra Y. Cleary: [alex\\_cleary@mail.dnr.state.ga.us](mailto:alex_cleary@mail.dnr.state.ga.us) and [alex\\_cleary@dnr.state.ga.us](mailto:alex_cleary@dnr.state.ga.us)

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive SE, Suite 1066 East, Atlanta, Georgia 30334-9000

Lonice C. Barrett, Commissioner

Environmental Protection Division

Harold F. Reheis, Director

Telephone #404-657-8831 FAX #404-463-6676

## TRIP REPORT

June 3, 2003

**FILE COPY**

**SITE NAME AND LOCATION:** Sardis Road Creosoting Site  
Sardis Road, Kennesaw, Cobb County  
HSI #10347

**TRIP BY:** Alexandra Y. Cleary, Unit Coordinator  
Tad Gardocki, Legal Assistant

**DATE OF INVESTIGATION:** May 22, 2003

**OFFICIALS CONTACTED:** none

**REFERENCE:** Site Visit

### BACKGROUND:

Parcels 55, 60, and 210 were once owned by A.L. Marr and C.G. Dawson, who operated a sawmill on the property. After their deaths, the Marr family leased the site to other operators, one of which also performed creosote dipping on the property. The site has also been impacted by a release from a leaking gasoline UST from the General Store located west across Sardis Road.

### COMMENTS:

We first proceeded to inspect the Coxwell property (parcel 210). The property had been filled at some time in the past such that the lot was basically level with the Main Street. The northeastern corner of the property sloped down toward the creek such that it eventually reached the creek at what was possibly the original grade of the lot. An investigation of the filled area noted a significant quantity of buried wood – possibly trees/shrubs that were cleared on the lot prior to filling. Monitoring well MW7 was located on the property. The growth of trees located between the property owned by Mr. East (parcels 50 and 66) and the Coxwell property appear to be fairly new growth.

We then proceeded to inspect the East property. It is unclear from the site if fill has been added to this property, but at the very least, grading had occurred at some time in the past. There are no structures currently located on the East property. Upon proceeding to the center of the cleared area, a strong odor was noted which could be attributed to either a petroleum or creosote release. The area where the creosote dipping was noted to have occurred in previously submitted reports was inspected. There was no way to determine if that was the location of the creosote dipping operation. The remainder of the property was investigated. The debris areas were located within the tree line of the clearing. The creek was located however, due to the flow rate, I could not determine if free product was discharging to the creek. All of the monitoring wells were identified as were a number of the piezometers. A number of concrete structures (use undetermined) were located near monitoring well MW1 along with the demolition debris from a building that was apparently located near the head of the spring. Several gas cylinders were noted within the building debris.

**FILE**  
10347

**CONCLUSIONS:**

Meet with Gary Andrews, ERT to discuss conditions found at the site during emergency investigation to determine if he has any additional information to clarify the location of the creosote dipping operations.

**RECOMMENDATIONS/FOLLOW-UP:**

Regina Campbell and I met with Gary Andrews on May 28, 2003. He recalled that the creosote dip tank was located in an area east of monitoring well MW4 and north of monitoring well P2MW-11. This area is where sample #1 and #2 were taken during the CERCLA Site Investigation.

The Coxwell property was subdivided from parcels 55 and 60 in 1983, which is prior to the period of creosote dipping on the East property.

**PHOTOGRAPHS:** eight

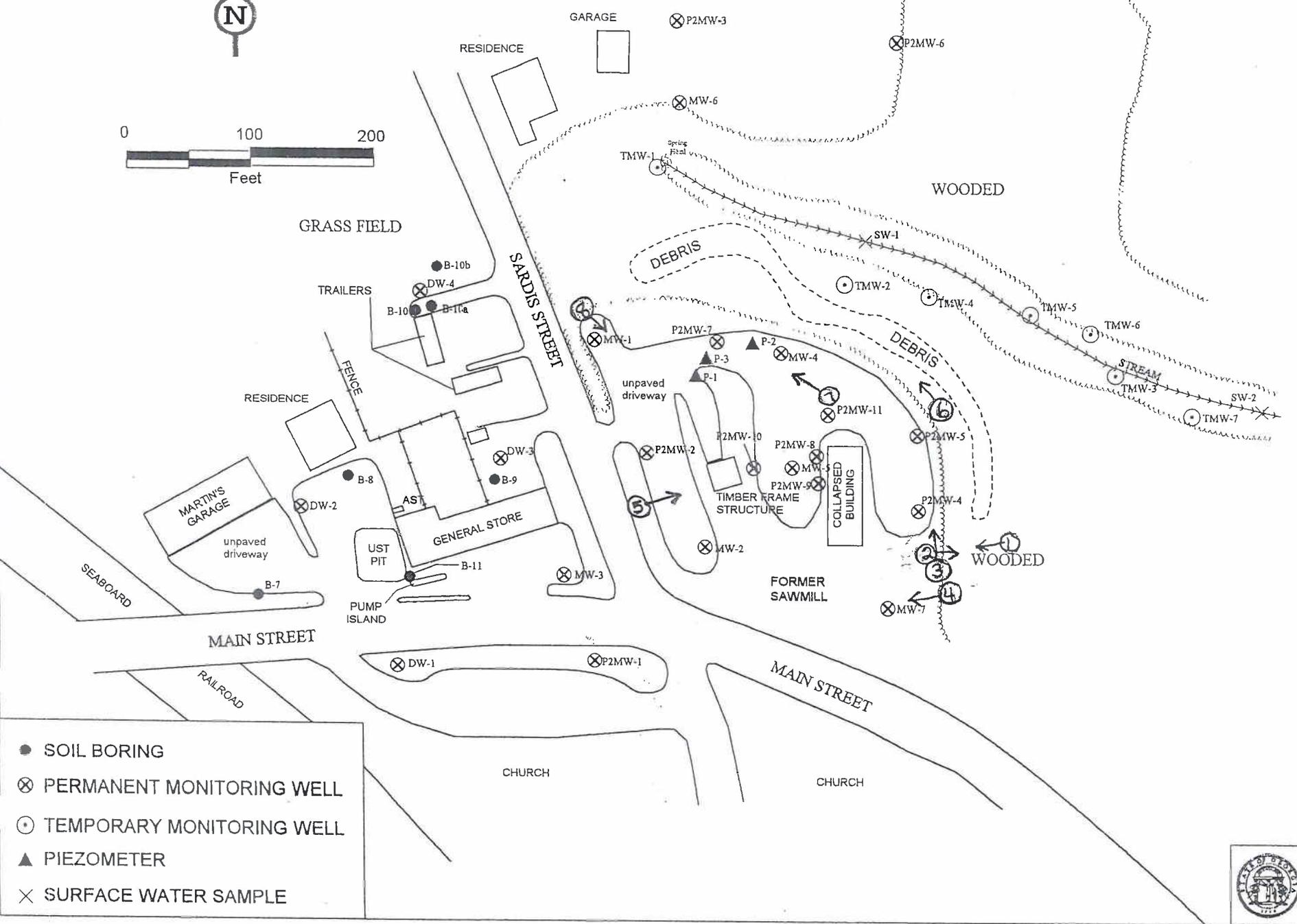
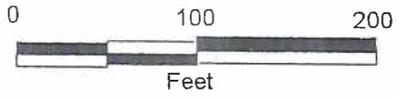
**NUMBER OF SAMPLES TAKEN:** none

**REVIEWED BY:** *Alexandra Y. Clear* **DATE:** 6/4/03

Att: Map of site with notations regarding location of pictures

File: HSI# 10347

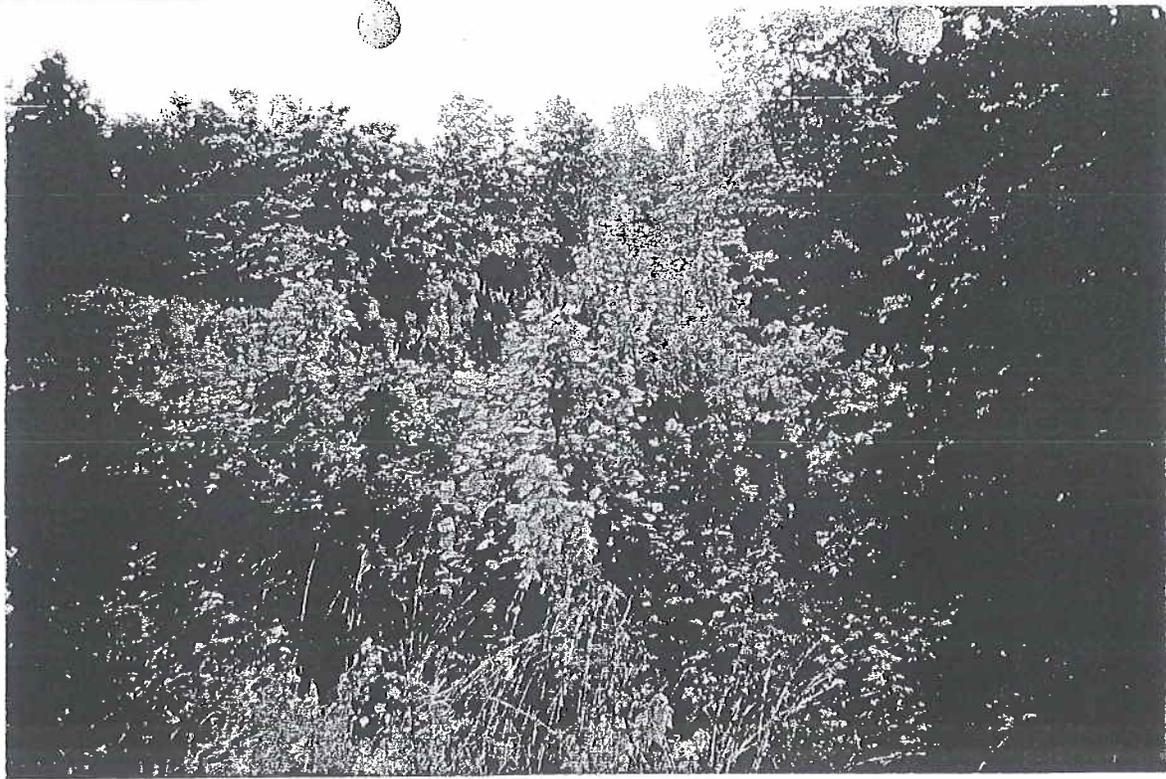
S:\RDRIVE\REGINA\Sites\10347 - SARDISRD\trip report May 2003.doc



- SOIL BORING
- ⊗ PERMANENT MONITORING WELL
- TEMPORARY MONITORING WELL
- ▲ PIEZOMETER
- × SURFACE WATER SAMPLE



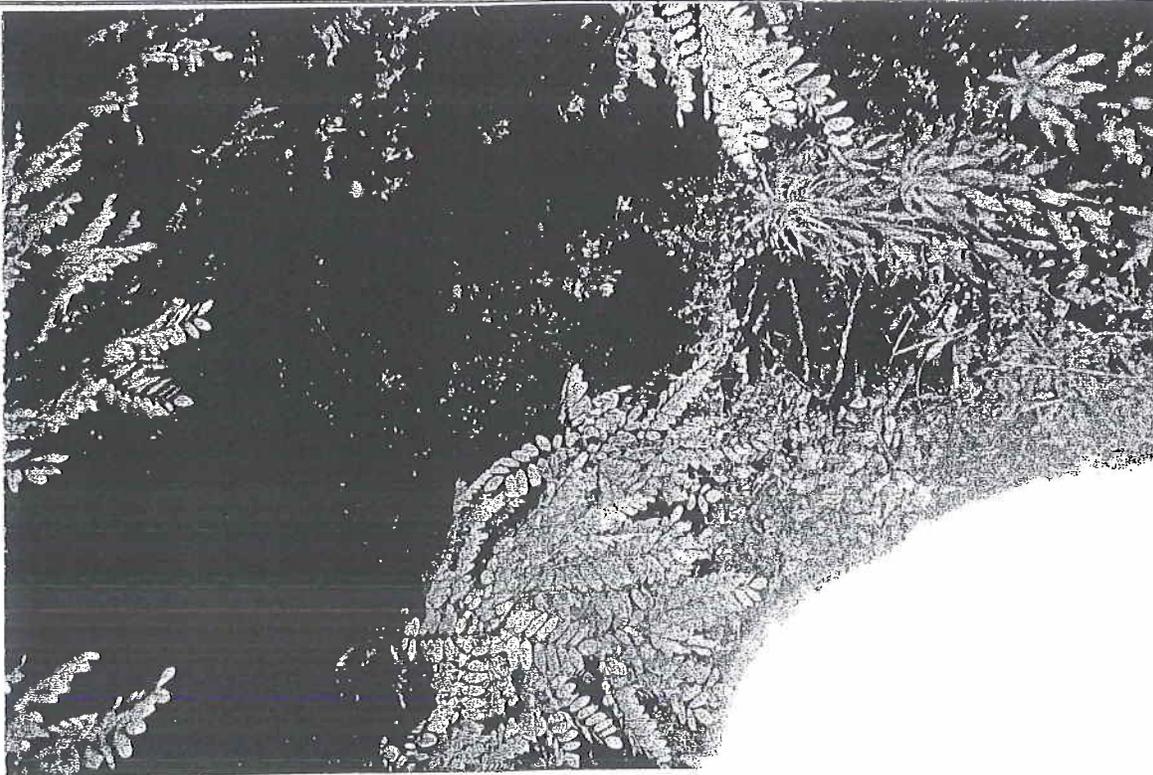
7. FROM INVESTIGATION, CONSULTATION, AND MONITORING WITH DETERMINATIONS



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 1 of 8 County Name: Cobb County

Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: Picture of Coxwell property from ~~west~~<sup>east</sup> side facing ~~east~~ west near northern property line



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 2 of 8 County Name: Cobb County

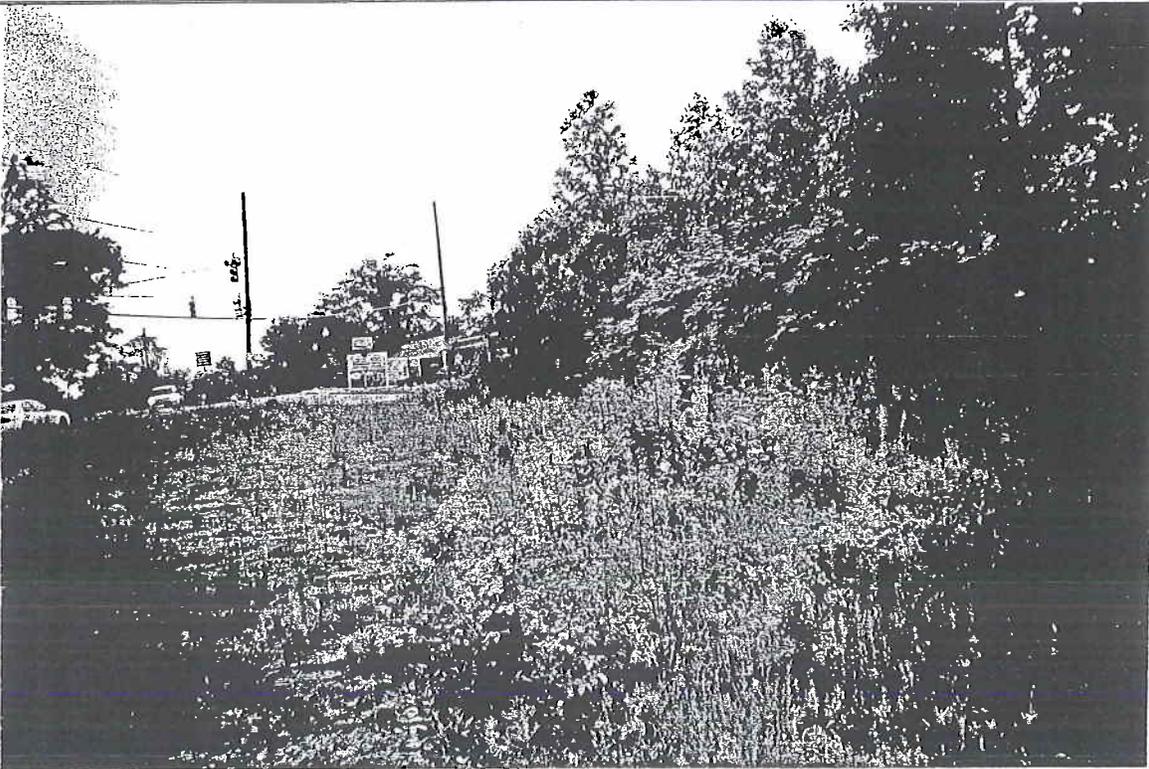
Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: picture of buried wood along ~~to~~ northern property line.



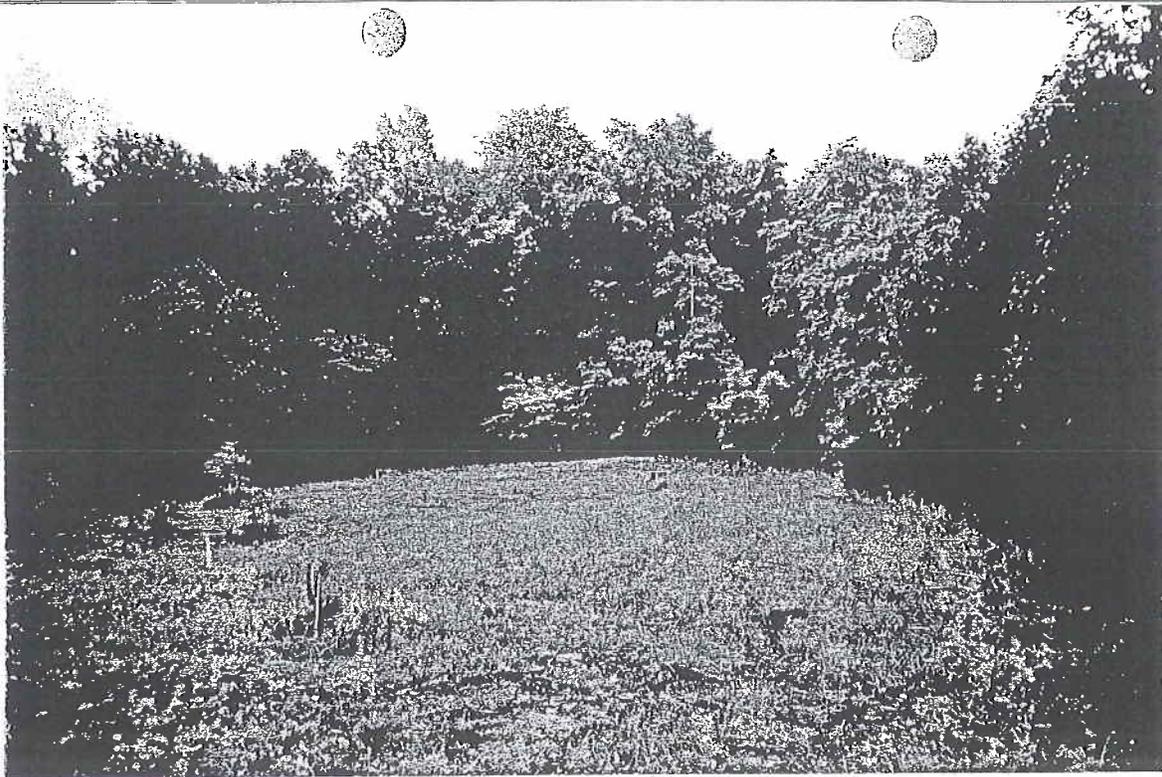
Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 3 of 8 County Name: Cobb County  
Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: picture taken north through property line to eastern edge of clearing of East property



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 4 of 8 County Name: Cobb County  
Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

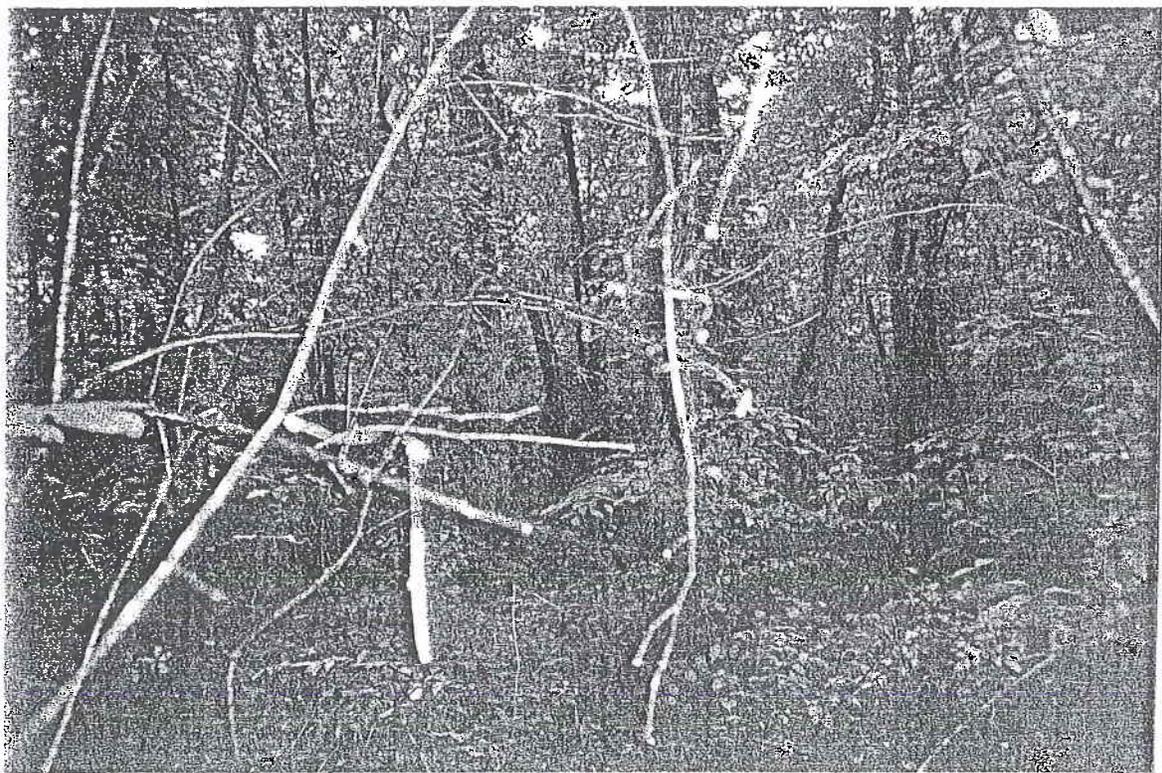
Explanation: picture of Coxwell property facing west. General store in background. MW 7 in foreground.



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 5 of 8 County Name: Cobb County

Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: picture of East property facing west from Sardis Road. MW2 in foreground.



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 6 of 8 County Name: Cobb County

Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: picture of wooded areas with debris piles. creek off to right.



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 7 of 8 County Name: Cobb County

Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: picture of East property facing north west. MW P2MW7 in background.



Site Name: Sardis Road Creosoting Site HSI # 10347 Picture 8 of 8 County Name: Cobb County

Date: May 22, 2003 Photographer: Alexandra Y. Cleary Hazardous Sites Response Program

Explanation: picture of concrete structures, demolished building in wooded area to left.

MEMORANDUM

DRAFT

TO: Alex Cleary

FROM: Tad A. Gardocki, Esq.  
ext. 7-8659

DATE: Friday, May 23, 2003

RE: Raymond East Property, Parcels 50 and 66

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Parcels 50 and 66

Current owner: Raymond East

**9 March 1999** Raymond East obtains the subject property by Warranty Deed from Gladys Elzroth and Emma J. Marr Canup (daughters and heirs of A.L. Marr) (BK 12302 PG 392-3)

**9 March 1999** Raymond East executes Security Deed to Gladys Elzroth and Emma J. Marr in order to finance the sale of the subject property. (BK 12302 PG 394-7)

**31 December 1996** Devise of Property to Gladys Marr Elzroth and Emma J. Marr Canup from the Estate of Cladis Marr. (BK 10166 PG 132-135 and see BK 10109 PG 082-086) (This formally gives title to the daughters)

**29 August 1990** Devise of Property to Cladis L.H. Marr from the Estate of Ausbon L. Marr. (BK 5862 PG 0294) (This formally gives title to the wife/mother)

**9 October 1984** Heirs to C.G. Dawson Execute Quitclaim Deed to Cladis L. Marr as Executrix of the Will of Ausbon L. Marr. (BK 3379 PG 87-89)

**PROPERTY SUB-DIVIDED 6 April 1983** - Gates of Praise Tabernacle takes title to the subject property by Warranty Deed from A.L. Marr. (BK 2733 PG 12) (This transfer does not include the signature of C.G. Dawson or his heirs) (This is when the property is subdivided, see survey 12 April 1983)

**23 September 1957** - C.G. Dawson and A.L. Marr take title to the subject property by Warranty Deed from Jennie F. Carruth.

10 January 1950 - Jennie F. Carruth obtains title to subject property by Warranty Deed from Burnette Hamby. (BK 210 PG 39)

MEMORANDUM

DRAFT

TO: Alex Cleary

FROM: Tad A. Gardocki, Esq.  
ext. 7-8659

DATE: Friday, May 23, 2003

RE: Coxwell Parcel 210

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PARCEL 210

Current Owner: James Coxwell

30 March 1998 Lien Released by Georgia EPD (BK 11159 PG 115-6)

18 August 1997 Lien Filed by Georgia EPD (BK 10656 PG 298-9)

25 November 1992 - James Coxwell took title of the subject property by Limited Warranty Deed from Fleet Finance, Inc. (BK 7057 PG 0064-65) Coxwell subsequently granted a Security Deed back to Fleet Finance, Inc. on the same date in order to secure the mortgage on the property. (BK 7057 PG 0066-72)

3 March 1992 - Fleet Finance, Inc. takes title of the subject property by Deed Under Power of Sale from John and Joyce Head. (BK 6528 PG 0397-8) Fleet takes this property through foreclosure action subject to its security interest in said property as a successor and assign of Mortgage Makers, Inc who originally held the mortgage.

7 April 1988 - John and Joyce Head execute Security Deed to Mortgage Makers, Inc. (BK 4608 PG 439-445)

20 August 1987 (record date) - John Head takes title to the subject property by Warranty Deed from Gates of Praise Tabernacle. (BK 4611 PG 265-6) (This document was likely executed on or about 21 July 1987) (Further, this likely had to be re-executed because of an insufficient transfer on 21 March 1986)

**21 July 1987** - Heirs to C.G. Dawson Execute Quitclaim Deed to John Head. (BK 4611 PG 258-259) (This is to correct insufficient transfer by A.L. Marr on 6 April 1983)

**21 March 1986** - John Head takes title to the subject property by Warranty Deed from Gates of Praise Tabernacle. (BK 3881 PG 545) (This transfer was likely insufficient as Head signs on behalf of his own church)

**6 April 1983** - Gates of Praise Tabernacle takes title to the subject property by Warranty Deed from A.L. Marr. (BK 2733 PG 12) (This transfer does not include the signature of C.G. Dawson or his heirs) (This is when the property is subdivided, see survey 12 April 1983)

*23 September 1957 - C.G. Dawson and A.L. Marr take title to the subject property by Warranty Deed from Jennie F. Carruth.*

*10 January 1950 - Jennie F. Carruth obtains title to subject property by Warranty Deed from Burnette Hamby. (BK 210 PG 39)*



# Georgia Department of Natural Resources

Environmental Protection Division  
Underground Storage Tank Management Program  
4244 International Parkway, Suite 104, Atlanta, Georgia 30354  
Chris Clark, Commissioner  
Carol A. Couch, Ph.D., Director  
404/362-2687

April 23, 2009

Mr. J. E. Poore  
1471 Wood Park Way  
Kennesaw, Georgia 30144

SUBJECT: No Further Action:  
The General Store  
2742 South Main Street  
Kennesaw, Cobb County, Georgia  
Facility ID: 9000423\*1

Dear Mr. Poore:

This is to acknowledge receipt of the Sixteenth and Seventeenth Quarterly Report and Request for No Further Action Request, received April 16, 2009 and April 9, 2009 respectively, and prepared by Sailors.

Based on the current requirements of the Georgia Underground Storage Tank Act, the Georgia Rules for Underground Storage Tank Management (GUST Rules), and the data contained in the Sixteenth and Seventeenth Quarterly Report and Request for No Further Action Request, the Georgia Environmental Protection Division (EPD) has determined that **no further action is required for the subject site at this time.**

However, this site could be subject to further action in the future if mandated through more stringent State or Federal statutory or regulatory changes, or if drinking water systems or surface water bodies are impacted by the dissolved contaminant plume, or if additional soil contamination or additional free product on or additional dissolved contaminants in groundwater are identified as originating from this site. If you have any questions, please contact Michael Coughlan at 404.362.2599.

Sincerely,  
  
Lisa L. Lewis

Unit Coordinator  
Corrective Action Unit II

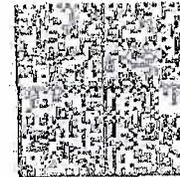
MFC9000423.34  
cc: Pat Coleman, EPD  
Richard Rudolph, P.C., Sailors  
File (CA): Cobb; 9000423

Georgia Department of Natural Resources

Land Protection

4244 International Parkway, Suite 104

Atlanta, Georgia 30354



Hasler

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\$00.420

04/22/2009

Mailed From 30354

US POSTAGE

Mr. Richard Rudolph, P.G.  
SAILORS Engineering Associates, Inc.  
1675 Spectrum Drive  
Lawrenceville, GA 30043

3004385743 0051





# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1462 East, Atlanta, Georgia 30334  
Lonice C. Barrett, Commissioner  
Environmental Protection Division  
Carol A. Couch, PhD, Director  
404/657-8600

March 31, 2004

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

**FILE COPY**

Mr. Raymond East Jr.  
4421 Thomas Drive, Unit 402  
Panama City, FL 32408

Re: **Removal of Site from the Hazardous Site Inventory**  
Sardis Road Creosote Site  
Kennesaw, Cobb County, Georgia  
HSI Site No. 10347

Dear Mr. East:

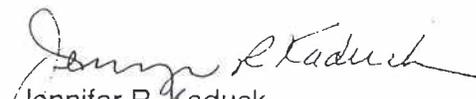
The Georgia Environmental Protection Division (EPD) has completed its review of a Compliance Status Report (CSR), dated October 13, 2003, and supplemental information dated through March 18, 2004 for the creosote release at the above referenced site. The CSR is complete and meets the requirements of Section 391-3-19-.06(3) of the Rules for Hazardous Site Response (Rules).

Additionally, this letter is to inform you of EPD's concurrence with your certification that the creosote release at the above referenced site meets the Type 1 risk reduction standards of Section 391-3-19-.07 of the Rules. In accordance with Rule 391-3-19-.06(6)(b)(1), EPD is designating the site as not needing further action.

In accordance with Section 391-3-19-.05(4)(b) of the Rules, EPD is removing this site from the Hazardous Site Inventory (HSI) as of the date of this letter. As required by Rule 391-3-19-.06(5)(f), EPD will publish the enclosed public notice announcing this determination in the Marietta Daily Journal. If you have any questions regarding the removal from the HSI, please contact Ms. Regina Campbell at (404) 657-8600.

While EPD is removing this site from the HSI, EPD's Underground Storage Tank Management Program is continuing its management of the cleanup of the petroleum release that has migrated onto your property from the General Store. For any questions related to the cleanup of the petroleum release, please contact Ms. Keriema Newnan at (404) 362-2594.

Sincerely,

  
Jennifer R. Kaduck  
Chief

Hazardous Waste Management Branch

Encl.: Public Notice  
cc: Charles Ferry, Mactec  
Michael Haller, Sailors Engineering Associates  
Keriema Newnan, EPD USTMP

File: Site 10347

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**PUBLIC NOTICE OF EPD'S CONCURRENCE WITH COMPLIANCE STATUS REPORT  
AND REMOVAL OF SITE FROM THE HAZARDOUS SITE INVENTORY**

**Sardis Road Creosote Site  
South Main Street and Sardis Road  
Kennesaw, Georgia (Cobb County)  
Hazardous Site Inventory Number 10347**

This is to inform all interested persons that the Georgia Environmental Protection Division (EPD) has completed its review of a Compliance Status Report (CSR), dated October 13, 2003, and supplemental information dated through March 18, 2004, submitted by Mr. Raymond East for the Sardis Road Creosote Site. The site is located on South Main Street and Sardis Road in Kennesaw, Cobb County, Georgia. The site was listed on the Hazardous Site Inventory (HSI) as Site No. 10347.

EPD concurs with the certification that the Sardis Road Creosote Site is in compliance with residential cleanup standards pursuant to Section 391-3-19-.07 of the Rules for Hazardous Site Response (Rules). In accordance with Rule 391-3-19-.06(6)(b)(1), EPD is designating the site as not needing further action. As provided for in Rule 391-3-19-.05(4)(b), EPD is removing the site from the HSI effective March 31, 2004.

Any questions regarding this site should be directed to Ms. Regina Campbell of the Hazardous Sites Response Program at 404/657-8600.

# Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, SE, Suite 1462 East, Atlanta, Georgia 30334  
Lonice C. Barrett, Commissioner  
Environmental Protection Division  
Carol A. Couch, PhD, Director  
404/657-8600

March 31, 2004

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. James Coxwell  
PO Box 1555  
Kennesaw, GA 30144

**FILE COPY**

Re: **Removal of Site from the Hazardous Site Inventory**  
Sardis Road Creosote Site  
Kennesaw, Cobb County, Georgia  
HSI Site No. 10347

Dear Mr. Coxwell:

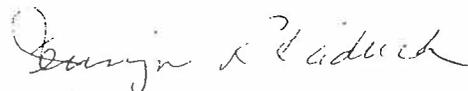
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If you have any questions regarding this matter, please contact Ms. Regina Campbell at (404) 657-8600.

Sincerely,



Jennifer R. Kaduck  
Chief

Hazardous Waste Management Branch

Encl.: Public Notice

File: Site 10347

S:\RDRIVE\REGINA\Sites\10347 - SARDISRD\delisting letter2.doc

**PUBLIC NOTICE OF EPD'S CONCURRENCE WITH COMPLIANCE STATUS REPORT  
AND REMOVAL OF SITE FROM THE HAZARDOUS SITE INVENTORY**

**Sardis Road Creosote Site  
South Main Street and Sardis Road  
Kennesaw, Georgia (Cobb County)  
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