



July 23, 2020

Central Alabama Housing Alliance C/O  
Habitat for Humanity of Greater Birmingham  
PO Box 540  
4408 Lloyd Noland Parkway  
Fairfield, AL 35064

**ATTENTION: Patricia Burch**

**SUBJECT: Phase I Environmental Site Assessment Report**  
East Lake Area – Scattered Sites  
Birmingham, Alabama  
Project No. 3357-001-03

Dear Patricia:

Spectrum Environmental, Inc., (Spectrum) is pleased to provide this Phase I Environmental Site Assessment (Phase I ESA) Report prepared for the above-referenced property.

Please be aware that according to ASTM Practice E1527-13, this document is generally valid for 180 days, unless changes in site usage have occurred which would impact the environmental conditions of the property. If you have any questions or comments, please contact the undersigned at Spectrum Environmental, Inc. at (205) 664-2000.

Sincerely,  
SPECTRUM ENVIRONMENTAL, INC.

  
Audrey Henson  
Staff Scientist

  
Jamie D. Cox, P.G.  
Southeast Division Manager



[www.specenviro.com](http://www.specenviro.com)

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**Phase I Environmental Site Assessment Report  
East Lake – Scattered Sites  
Birmingham, Alabama**

Prepared For:

Central Alabama Housing Alliance C/O  
Habitat for Humanity of Greater Birmingham  
PO Box 540  
4408 Lloyd Noland Parkway  
Fairfield, AL 35064

Report Issuance Date: July 23, 2020

Spectrum Project Number:  
3357-001-03



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**ACRONYMS**

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**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL National Priority List  
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***

CERCLIS Comprehensive Environmental Response, Compensation, and Liability  
Information System  
FEDERAL FACILITY Federal Facility Site Information listing

***Federal RCRA CORRACTS facilities list***

CORRACTS Corrective Action Report

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF RCRA - Treatment, Storage and Disposal

***Federal institutional controls / engineering controls registries***

US ENG CONTROLS Engineering Controls Sites List  
US INST CONTROL Sites with Institutional Controls

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF Permitted Landfills

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

LAST List of AST Release Incidents  
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***

ENG CONTROLS Engineering Controls Site Listing  
AUL Environmental Covenants

***State and tribal voluntary cleanup sites***

INDIAN VCP Voluntary Cleanup Priority Listing

***State and tribal Brownfields sites***

BROWNFIELDS Land Division Brownfields 128(a) Program Site Listing

**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  
INDIAN ODI Report on the Status of Open Dumps on Indian Lands

***Local Lists of Hazardous waste / Contaminated Sites***

US CDL Clandestine Drug Labs  
AOCONCERN Area of Concern  
CDL Clandestine Methamphetamine Lab Sites  
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 Emergency Response Data

***Other Ascertainable Records***

COAL ASH Coal Ash Disposal Sites  
COAL ASH DOE STEAM-ELECTRIC PLANT OPERATION DATA  
COAL ASH EPA Coal Combustion Residues Surface Impoundments List  
CONSENT Superfund (CERCLA) Consent Decrees  
DOT OPS Incident and Accident Data  
DOD Department of Defense Sites  
DRYCLEANERS Drycleaner Facility Listing  
FUDS Formerly Used Defense Sites  
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  
ICIS Integrated Compliance Information System  
INDIAN RESERV Indian Reservations  
MINES Mines Master Index File  
MLTS Material Licensing Tracking System  
PADS PCB Activity Database System  
PCB TRANSFORMER PCB Transformer Registration Database  
RAATS RCRA Administrative Action Tracking System  
RADINFO Radiation Information Database  
ROD Records Of Decision  
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing  
SSTS Section 7 Tracking Systems  
TRIS Toxic Chemical Release Inventory System  
TSCA Toxic Substances Control Act  
UMTRA Uranium Mill Tailings Sites

## 1.0 EXECUTIVE SUMMARY

Spectrum Environmental, Inc. (Spectrum) has prepared this Phase I Environmental Site Assessment (Phase I ESA) report for the scattered sites located in Birmingham, Alabama in accordance with American Society of Testing and Materials (ASTM) Practice E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, which is recognized by the United States Environmental Protection Agency (USEPA) and deemed to be compliant with the All Appropriate Inquiries (AAI) Regulation listed under 40 CFR Part 312. Additionally, the Phase I ESA includes an evaluation of environmental interests as required for HUD Part 58 funding.

The objective of this Phase I ESA was to identify, to the extent feasible *recognized environmental conditions*<sup>1</sup> (REC) and/or *business environmental risks*<sup>2</sup> (BER) in association with the property, if any. To accomplish this objective, Spectrum conducted a review of reasonably ascertainable<sup>3</sup> records (and practically reviewable<sup>4</sup>), conducted a site reconnaissance, conducted interviews of persons knowledgeable of the site/surrounding areas, and evaluated the data for reporting.

### 1.1 Property Summary Tables

A summary of the pertinent details of the project is provided below.

Project Summary Table					
<b>Name of Client:</b>	Central Alabama Housing Alliance		<b>Project Number:</b>	3357-001-01	
<b>Client Contact:</b>	Patricia Burch				
<b>Project Description:</b>	Phase I ESA				
<b>Property Name:</b>	East Lake Scattered Sites				
<b>Property Address:</b>	See Table Below				
<b>City:</b>	Birmingham	<b>County:</b>	Jefferson	<b>State:</b>	AL
<b>Tax Map Designated Parcel Number:</b>	See Table Below				
<b>Property Area (Acres):</b>	See Table Below				
<b>Building Area (Square Feet):</b>	Not Listed				
<b>Assessor Designated Site Use:</b>	Single-family Residential				
<b>Year Built:</b>	See Table Below				
<b>Property Owner:</b>	See Table Below				
<b>Assessment Personnel:</b>	Audrey Henson and Scott Hassler				
<b>Accompanied/Escorted By:</b>	Unescorted				
<b>Property Contact:</b>	Eric Fancher				
<b>Inspection Date:</b>	May 26, 2020				
<b>Weather Conditions:</b>	Raining				

<sup>1</sup> *Recognized Environmental Condition* - "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment".

<sup>2</sup> *Business Environmental Risk* - A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of *commercial real estate*, not necessarily limited to those environmental issues required to be investigated in this practice.

<sup>3</sup> Reasonably ascertainable - Information that is: (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

<sup>4</sup> Practically Reviewable - Means that information provided by source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary analysis of irrelevant data.

ID	Address	Parcel Number	Owner	Acres	Year Built
PA-1	111 71 <sup>st</sup> St N	12300152021008000	Habitat for Humanity	0.12	No Structure
PA-2	217 71 <sup>st</sup> St N	12300152021009000	Habitat for Humanity	0.14	1949
PA-3	7109 3 <sup>rd</sup> Ave N	12300152021005000	Birmingham Land Bank	0.121	No Structure
PA-4	7111 3 <sup>rd</sup> Ave N	12300152021004000	Birmingham Land Bank	0.06	No Structure
PA-5	7115 3 <sup>rd</sup> Ave N	12300152020003000	Habitat for Humanity	0.20	1950
PA-6	220 72 <sup>nd</sup> St N	12300152020020000	Habitat for Humanity	0.17	1930
PA-7	212 72 <sup>nd</sup> St N	12300152020018000	Birmingham Land Bank	0.11	1937
PA-8	7132 2 <sup>nd</sup> Ave N	12300152020017000	Birmingham Land Bank	0.35	No Structure
PA-9	7120 2 <sup>nd</sup> Ave N	12300152020015000	Birmingham Land Bank	0.23	No Structure
PA-10	7100 2 <sup>nd</sup> Ave N	12300152020010000	Birmingham Land Bank	0.23	No Structure
PA-11	114 72 <sup>nd</sup> St N	12300151038006000	Habitat for Humanity	0.09	No Structure

## 1.2 Conclusions

Spectrum has performed a Phase I Environmental Site Assessment in accordance with the scope and limitations of ASTM Practice E 1527-13 of the target property. A summary of the findings is presented below.

### ***Recognized Environmental Conditions***

A recognized environmental condition (REC), as defined in the ASTM Standard, means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not REC's. *Based on our review of current and historical site data, no RECs were identified in connection with the target property.*

### ***Historical Recognized Environmental Conditions***

A historical recognized environmental condition (HREC), as defined in the ASTM Standard, is an environmental condition that in the past would have been identified as a REC, but has been adequately addressed and therefore no longer represents a REC. *Based on our review of current and historical site data, no HRECs were identified in connection with the target property.*

### ***Controlled Recognized Environmental Conditions***

A controlled recognized environmental condition (CREC), as defined in the ASTM Standard, is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent or meeting risk-based criteria established by the regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). *Based on our review of current and historical site data, no CRECs were identified in connection with the target property.*

***Business Environmental Risks***

A business environmental risk (BER), as defined in the ASTM Standard, is a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. *Based on our review of current and historical site data, there were no BERs identified in connection with the target property.*

**1.3 Table of Critical Dates**

Table of Critical Dates	
Report Issuance Date	July 23, 2020
Date of Interview of Past and Present Owners and Occupants	June 1, 2020
Date of Recorded Environmental Clean-up Lien Search	-
Date of Government Record Review	May 15, 2020
Date of Visual Inspection of Subject and Adjoining Properties	May 26, 2020
Earliest Date of Interviews, Lien Search, Records Reviews and Inspections	May 15, 2020

It should be noted that this section is only intended to represent a brief summary of our findings and is not a detailed account of all the information compiled in preparation of this report. The user should review the Phase I ESA in its entirety prior to drawing any final conclusions as to potential environmental conditions associated with the site.

## 2.0 INTRODUCTION

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### 2.1 Purpose

The purpose of this Phase I Environmental Site Assessment (Phase I ESA) is to identify, to the extent feasible pursuant to the processes prescribed in the ASTM, E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, *recognized environmental conditions* (RECs) in connection with the property. The term REC means “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment”<sup>5</sup>. *De minimis* conditions are not recognized environmental conditions. *De minimis* conditions 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.

The Phase I ESA Process is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner*<sup>5</sup>, *contiguous property owner*<sup>6</sup>, or *bona fide prospective purchaser*<sup>7</sup> limitations on CERCLA liability (*landowner liability protections*).

### 2.2 Detailed Scope of Services

Spectrum employs a phased approach to site investigations by outlining and completing specific work tasks. A Phase I ESA usually consists of a records review, site

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<sup>5</sup> Innocent Landowner Defense: A person may qualify as one of three types of innocent landowners: (i) a person who “did not know and had no reason to know” that contamination existed on the property at the time the purchaser acquired the property; (ii) a government entity which acquired the property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who “acquired the facility by inheritance or bequest.” To qualify for the innocent landowner defense, such person must have made all appropriate inquiries on or before the date of purchase. Furthermore, the all appropriate inquiries must not have resulted in knowledge of the contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the innocent landowner defense.

<sup>6</sup> Contiguous Property Owner Liability Protection: A person may qualify for the contiguous property owner liability protection if, among other requirements, such person owns real property that is contiguous to, and that is or may be contaminated by hazardous substances from other real property that is not owned by that person. Furthermore, such person conducted All Appropriate Inquiry at the time of acquisition of the property and did not know or have reason to know that the property was, or could be, contaminated by a release or threatened release from the contiguous property. The all appropriate inquiries must not result in knowledge of contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the contiguous property owner liability protection.

<sup>7</sup> Bona fide prospective purchaser liability protection: A person may qualify as a bona fide prospective purchaser if, among other requirements, such person made “all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices.” Knowledge of contamination resulting from all appropriate inquiry would not generally preclude this liability protection. A person must make all appropriate inquiry on or before the date of purchase and the facility must have been purchased after January 11, 2002.

reconnaissance, personal interviews, and the generation of a report. Results of the initial Phase I ESA help assess whether further investigations may be necessary.

*2.2.1 Records Review*

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the property. Accuracy and completeness of record information varies among information sources, including governmental sources. Record information is often inaccurate or incomplete. The user or environmental professional is not obligated to identify mistakes or insufficiencies in information provided. However, the environmental professional reviewing records shall make a reasonable effort to compensate for mistakes or insufficiencies in the information reviewed that are obvious in light of other information of which the environmental professional has actual knowledge.

A listing of standard environmental record sources is listed below.

<i>Standard Environmental Records Sources (where available)</i>	<i>Approximate Minimum Search Distance (miles)</i>
Federal NPL Site List	1.0
Federal delisted NPL	0.5
Federal CERCLIS list	0.5
Federal CERCLIS NFRAP list	0.5
Federal RCRA CORRACTS list	1
Federal RCRA TSD list	0.5
Federal RCRA Generators list	Property and Adjoining
Federal institutional control/ engineering control registries	Property only
Federal ERNS list	Property only
State/tribal list of hazardous waste sites	
State/tribal NPL	1.0
State/tribal CERCLIS	0.5
State/tribal Landfill	0.5
State/tribal LUST	0.5
State/tribal Registered UST/AST	Property and Adjoining
State/tribal institutional control/ engineering control registries	Property only
State/tribal VCP sites list	0.5
State/tribal Brownfield sites list	0.5

Other sources of information that could be reviewed include, but is not limited to, the of Alabama Department of Environmental Management (ADEM), the local Fire Department, Planning Department, Building Permits Department, aerial photographs, Fire Insurance maps, property tax files, recorded land title records, topographic maps, and city directories.

### *2.2.2 Site Reconnaissance*

The objective of the site reconnaissance was to obtain information indicating the likelihood of identifying RECs in connection with the property. A site reconnaissance was conducted by Spectrum personnel experienced in hazardous materials/petroleum product surveys. Surface conditions and current activities on the subject property and on adjoining properties were observed. An inventory of potential contaminant sources on, and adjoining, the subject property was completed on the basis of regulatory agency record reviews and visual observations. Limitations encountered during the site reconnaissance are included in the discussion of the report.

### *2.2.3 Interviews*

The objective of interviews was to obtain information indicating RECs in connection with the property. Interviews with past and present owner, operators, and/or occupants of the property, where possible, were conducted as part of this Phase I ESA. Other persons potentially interviewed could include State and local government officials, local fire department personnel, local historians, and others that may have specialized knowledge of the site and/or surrounding properties.

### *2.2.4 Evaluation and Report Preparation*

This Phase I ESA report summarizes the findings from the tasks described above. Spectrum has provided a discussion of potential and existing contamination sources, and conclusions regarding our evaluation of the likelihood of contamination on the target property.

## **2.3 Significant Assumptions**

No significant assumptions were made during the conduct of this Phase I ESA unless otherwise stated.

## **2.4 Limitations and Exceptions**

Spectrum has performed our services for this project in accordance with our agreement, ASTM Practice E 1527-13, and the site-specific requirements provided by client, where applicable. No guarantees are either expressed or implied.

The records search was limited to information available from public sources; this information is changing continually and is frequently incomplete. Unless we have actual knowledge to the contrary, all information obtained from interviews or provided to us has been assumed to be correct and complete. Spectrum assumes no liability for findings or conclusions we may draw based on misleading or false information provided to us. Further, we assume no liability for items, conditions, or situations not visible or readily accessible through the application of standard professional care and practice.

There is no investigation that is thorough enough to preclude the presence of materials on the subject property that presently, or in the future, may be considered hazardous. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants present and considered to be acceptable may, in the future, become subject to different regulatory standards and require remediation. Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions.

## **2.5 Special Terms and Conditions**

There are no special terms and/or conditions pertaining to this Phase I ESA.

## **2.6 User Reliance**

This report is certified to the Central Alabama Housing Alliance. Any reliance on this report by other parties shall be at such party's sole risk.

### 3.0 SITE DESCRIPTION

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#### 3.1 Location and Legal Description

The target includes parcels at addresses 111 71st St N, 217 71st St N, 7109 3rd Ave N, 7111 3rd Ave N, 7115 3rd Ave N, 220 72nd St N, 212 72nd St N, 7132 2nd Ave N, 7120 2nd Ave N, 7100 2nd Ave N, and 114 72nd St N in Birmingham, Alabama (Figure 1 – Appendix A). An aerial view of the target property is provided as Figure 2 and a parcel tax map is provided as Figure 3.

#### 3.2 Site and Vicinity General Characteristics

The target property is located in a mixed commercial and residential area of Birmingham, Alabama. The uses of adjoining properties are listed in [Section 3.5](#) below.

#### 3.3 Current Use of Property

The target property consists of 11 residential lots; seven of which contain no structures and four lots include single-family residential buildings.

#### 3.4 Descriptions of Structures, Roads, and Other Site Improvements

The parcels at 212 72nd St N, 217 71st St N, 220 72nd St N, and 7115 3rd Ave N include single-family residential buildings. All other parcels are undeveloped, grass lawn. The target property can be accessed via 72<sup>nd</sup> St N, 71<sup>st</sup> St N, 2<sup>nd</sup> Ave N, 2<sup>nd</sup> Alley N, and 3<sup>rd</sup> Ave N.

#### 3.5 Current Uses of Adjoining Properties

Direction	Use
North	Residential
South	Residential/Commercial
East	Residential/Commercial
West	Residential/ Park

## **4.0 USER PROVIDED INFORMATION**

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A User Questionnaire was completed by Patricia Burch (on behalf of the User) to assist the environmental professional in evaluating the target property. A copy of the completed User Questionnaire is provided in Appendix B and a summary of the information provided is discussed below.

### **4.1 Title and Judicial Records for Environmental Liens and AULs**

Judicial and Title Records were not provided to Spectrum for review and discussion in this Phase I ESA report. However, the User did not identify any environmental liens or AULs in connection with the target property.

### **4.2 Specialized Knowledge or Experience of the User**

The User does not have specialized knowledge of the activities conducted on the target property, as they are in the same line of business. Additionally, the User is not aware of any spill or releases that have occurred or of any cleanup activities that have taken place on the property.

### **4.3 Valuation Reduction for Environmental Issues**

The User indicated that the price of the property does reflect the fair market value.

### **4.4 Commonly Known or Reasonably Ascertainable Information**

The User is not aware of the past uses of the property and is not aware of any environmental incidents associated with the property.

### **4.5 Property Owner, Manager, and/or Occupant Information**

The parcel numbers 12300152021008000, 12300152020009000, 12300152020003000, 12300152020020000, 12300152020018000, and 12300151038006000 are owned by the Birmingham Land Bank Authority. The parcel numbers 12300152020005000, 12300152020004000, 12300152020017000, 12300152020015000, and 12300152020010000 are owned by Habitat for Humanity.

#### **4.6 Reason for Performing Phase I ESA**

According to the User, this Phase I ESA has been conducted as part of environmental due diligence with the purpose of identifying potential RECs and/or BERs that might exist in connection with the property.

## 5.0 RECORDS REVIEW

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### 5.1 Standard Environmental Record Sources

Environmental Data Resources. (EDR) conducted a search of available environmental records. The report, dated May 15, 2020, was designed to assist parties seeking to meet the requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risks associated with a parcel of real estate.

EDR's search of available ("reasonably ascertainable") government records on the target property and within the search radius around the target property included the databases listed on executive Summary Pages 3 through 6 of the Radius Search database report (Appendix C).

#### 5.1.1 Target Property

The target property was not identified in any of the database searched.

#### 5.1.2 Surrounding Properties

Several surrounding sites were identified in the databases report. A discussion of each site, as applicable, will follow the site's listing and an opinion as to whether that site represents a REC to the target property.

Discussion of Groundwater Flow Direction – The position (with respect to the groundwater flow direction) of any site to the target property is essential in helping evaluate whether or not a site (or contamination associated with a site) represents a REC to the target property. Based on our review of site topography and surface water features, it appears that the groundwater flow direction in the area would be to the north-northwest. A discussion of select surrounding sites and an opinion as to whether these sites represent a REC to the target property can be found below.

FACILITY	STREET	MILES	DIR	DB NAME
HORTON SERVICE STA FILLING STA	7100 1 <sup>ST</sup> AVE N	0.027	SSE	EDR HIST AUTO
EAST LAKE COIN LAUNDRY	7100 1 <sup>ST</sup> AVE N	0.027	SSE	EDR HIST CLEANER
ACME CLEANERS	7103 1 <sup>ST</sup> AVE N	0.049	SE	EDR HIST CLEANER
The site is located approximately 0.027 miles south-southeast of the target property and in an interpreted upgradient position. The site is listed as a gas station in the EDR Historical Auto database, with the names Horton Service Filling Station (1940) and Seventy First St Service Station (1930-1935). The site is also listed in the EDR Historical Cleaner database with the names Acme Cleans (1946-1956), Norge Coin Operated Laundry (1976-1981), and East Lake Coin Laundry (1991-1996). <i>Based on the results of a Phase II ESA conducted at the target property, this site is not interpreted to represent a REC to the target property.</i>				
RODEN TEXACO SERVICE	7200 ST AVE N	0.033	E	EDR HIST AUTO
This site located approximately 0.033 miles east of the target property and in an interpreted crossgradient position. The site is listed in the EDR Historical Auto database as a gas station (1952-1967) and general automotive repair shop (1991-2003). <i>Based on this information, specifically the site's crossgradient position relative to the target property, this site is not interpreted to represent a REC to the target property.</i>				
CROOK PLUMBING INC	7115 1 <sup>ST</sup> AVE N	0.053	SE	UST, FINANCIAL ASSURANCE
This site is located approximately 0.053 miles southeast of the target property and in an interpreted upgradient position. The site is listed in Underground Storage Tank (UST) database for having one 900-gallon gasoline UST. The UST was installed in 1977 and was last used in 1989. There are no reported releases reported at the site. <i>Based on the information, this site is not interpreted to represent a REC to the target property.</i>				
EAST LAKE AUTO CLINIC	7031 1 <sup>ST</sup> AVE N	0.056	SSE	EDR HIST AUTO
This site is plotted approximately 0.056 miles south-southeast of the target property and in an interpreted upgradient position relative to the target property. This site is listed in the EDR Historical Auto database as a gas station (1940-1983) and general automotive repair shop (1974-2014). <i>Based on the results of a Phase II ESA conducted at the target property, this site is not interpreted to represent a REC to the target property.</i>				
RAYMONDS GARAGE	7007 1 <sup>ST</sup> AVE N	0.099	S	EDR HIST AUTO
This site is plotted approximately 0.099 miles south of the target property and in an interpreted upgradient position relative to the target property. This site is listed in the EDR Historical Auto database as an automotive repair shop (1971-1981). <i>Based on this information, this site is not interpreted to represent a REC to the target property.</i>				
ADVANCE AUTO PARTS #9290	7001 1 <sup>ST</sup> AVE N	0.105	S	RCRA NONGEN/NLR, FINDS, ECHO
This site is plotted approximately 0.105 miles south of the target property and in an interpreted upgradient position relative to the target property. This site is classified as a RCRA non-generator and handler of hazardous waste. There are no violations reported. <i>Based on this information, specifically the lack of a reported release, this site is not interpreted to represent a REC to the target property.</i>				
A1 FOOD MART #3	6820 1 <sup>ST</sup> AVE N	0.219	SSW	UST, FINANCIAL ASSURANCE
This site is plotted approximately 0.219 miles south-southwest of the target property and in an interpreted upgradient position relative to the target property. This site is listed in the UST database for having one 4000-gallon diesel UST, one 4000-gallon kerosene UST, one 16,000-gallon gasoline UST, and one 6000-gallon gasoline UST. The gasoline USTs were installed in 1984 and was last used in 2019; the diesel UST was installed in 1982 and last used in 2015; the kerosene UST was installed in 1982 and last used in 2019. <i>Based on this information, specifically the lack of a reported release, this site is not interpreted to represent a REC to the target property.</i>				

All other sites listed in the database report within the respective database search radii are located downgradient or distant crossgradient in relation to the target property. As such, none of these sites are interpreted to represent a REC to the target property.

### *5.1.3 Orphan Sites*

There were five unmappable Orphan sites identified in the EDR database report. After further review, it appears that these sites are located over one mile from the target property. *Based on the distance from the target property, none of the orphan sites are interpreted to present a REC to the target property.*

## **5.2 Additional Environmental Record Sources**

Spectrum conducted a Phase II Limited Site Assessment at the target property on July 9, 2020 in order to determine whether or not contamination originating from the historical dry-cleaning facility and gas stations in the surrounding area had affected the property. Spectrum advanced borings at 111 71<sup>st</sup> Street N. and 114 72<sup>nd</sup> Street N and obtained soil and groundwater samples. All samples were analyzed for Volatile Organic Compounds (VOCs). Laboratory analytical data was compared against Regional Screening Levels (RSL) published by EPA. The RSL table utilized has a target hazard quotient of 0.1 and a Target Cancer Risk of 1E-06. Based on the results, all soil and groundwater samples were reported below the EPA Regional Screening Levels (RSLs). This report is provided in Appendix G.

### 5.3 Physical Setting Sources

#### TARGET PROPERTY INFORMATION

##### ADDRESS

111 71ST ST N  
BIRMINGHAM, AL 35206

##### COORDINATES

Latitude (North): 33.5564700 - 33° 33' 23.29"  
Longitude (West): 86.7362560 - 86° 44' 10.52"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 524482.6  
UTM Y (Meters): 3712818.2  
Elevation: 638 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6700710 IRONDALE, AL  
Version Date: 2014  
  
West Map: 6700690 BIRMINGHAM NORTH, AL  
Version Date: 2014

#### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150805  
Source: USDA

### 5.4 Historical Property Use Information

Historical information of the target and surrounding properties was obtained through a search of readily available and reasonable ascertainable sources that included a review of Fire Insurance Maps, historical maps and aerial photographs, and interviews with persons knowledgeable of the site. A discussion of historical information sources is provided below and interviews with persons knowledgeable of the site are provided in Section 7.0 - Interviews.

#### *5.4.1 Fire Insurance Map Review*

A review of available Fire Insurance Map indexes as provided by EDR, indicates coverage for the target property and surrounding area from 1911, 1930, 1950, and 1967. A copy of the report indicating this information is provided in Appendix D, and a table summary for each map is provided below:

Year	Property	Discussion
1911	Target	The parcels at 114 72 <sup>nd</sup> St N, 7100 2 <sup>nd</sup> Ave N, 7120 2 <sup>nd</sup> Ave N, 7132 2 <sup>nd</sup> Ave N, and 212 2 <sup>nd</sup> Ave N are developed for residential use. All other parcels appear to be undeveloped.
	Surrounding	Residential developments are depicted at the adjoining properties to the northeast (along 72 <sup>nd</sup> St), east (along 1 <sup>st</sup> Ave N), and southeast (along 71 <sup>st</sup> St N). Adjoining properties to the southwest, west, and northwest appear to be vacant or undeveloped.
1930	Target	The parcels at 220 72 <sup>nd</sup> St N, 111 71 <sup>st</sup> St N, and 212 72 <sup>nd</sup> St N are developed for residential use.
	Surrounding	Adjoining properties to the north and northeast (along 72 <sup>nd</sup> St N) have been developed for residential use. Adjoining properties to the west (along 3 <sup>rd</sup> Ave N) have been developed for residential use. Adjoining properties to the east (along 1 <sup>st</sup> Ave N and 1 <sup>st</sup> Alley N) have been further developed for residential use. Gas tanks and a filling station are located at surrounding properties to the southeast.
1950	Target	The parcels at 217 71 <sup>st</sup> St N, 7109 3 <sup>rd</sup> Ave N, 7111 3 <sup>rd</sup> Ave N, 7115 3 <sup>rd</sup> Ave N, and 220 72 <sup>nd</sup> St N (all remaining parcels) have been developed for residential use. An apartment building is depicted at the parcel with address 114 72 <sup>nd</sup> St N.
	Surrounding	A dry-cleaning facility is depicted at a surrounding property to the southeast.
1967	Target	The target property has not changed significantly from the previous maps.
	Surrounding	East Lake Rest Home adjoins the property to the east (along 1 <sup>st</sup> Alley N). The dry-cleaning facility to the southeast appears to have been demolished.

5.4.2 Historical Aerial Photographs

Historical aerial photographs for the target property were obtained through EDR. The historical photographs are provided in Appendix E and summaries for each photograph are provided below:

Year	Property	Discussion
1941, 1947	Target	The parcels at 111 71 <sup>st</sup> St N, 114 72 <sup>nd</sup> St N, 7132 2 <sup>nd</sup> Ave N, 7120 2 <sup>nd</sup> Ave N, 7100 2 <sup>nd</sup> Ave N, 212 72 <sup>nd</sup> St N, and 220 72 <sup>nd</sup> St N appear to be developed for residential use. All other parcels appear to be undeveloped.
	Surrounding	Adjoining properties to the north, east, southeast, and west appear to be developed for residential use. Adjoining properties to the southwest appear to be vacant.
1951, 1956	Target	The remaining parcels at 7109 3 <sup>rd</sup> Ave N, 7111 3 <sup>rd</sup> Ave N, 7115 3 <sup>rd</sup> Ave N, and 217 71 <sup>st</sup> St N have been developed for residential use.
	Surrounding	Adjoining properties have not changed significantly from the previous aerial photographs.
1967	Target	It appears that the target property has not changed significantly from the previous aerial photographs.

	Surrounding	Adjoining properties to the east (along 1 <sup>st</sup> Alley N) appear to be converted from residential to commercial use.
1970	Target	The target property has not changed significantly from the previous aerial photograph.
	Surrounding	Several structures adjoining the property to the east (along 1 <sup>st</sup> Alley N) appear to have been demolished. Adjoining properties to the northeast (along 72 <sup>nd</sup> St N) appears to be developed for mixed commercial and residential use.
1977, 1981, 1988, [1992], [1998]	Target	The target property has not changed significantly for the previous aerial photograph.
	Surrounding	Commercial structures adjoin the property to the east (along 1 <sup>st</sup> Alley N). Images in the 1992 and 1998 aerial photographs are not easily discernible. Adjoining properties to the south and southwest appear to be developed for mixed commercial and residential use.
2006, 2009, 2013	Target	It appears that the building at 7132 2 <sup>nd</sup> Ave N has been demolished. All other buildings on the target property are not easily discernible due to vegetation.
	Surrounding	Adjoining properties have not changed significantly from the previous aerial photographs.
2017	Target	The buildings at parcels 111 71 <sup>st</sup> St N and 7100 2 <sup>nd</sup> Ave N have been demolished.
	Surrounding	Adjoining properties have not changed significantly from the previous aerial photographs.

**6.0 SITE RECONNAISSANCE**

**6.1 Methodology and Limiting Conditions**

Spectrum conducted a visual reconnaissance of the subject property on May 26, 2020. Spectrum personnel (Audrey Henson and Scott Hassler) walked the property in an attempt to identify potential RECs and/or Business Environmental Risks, if any. Photographs taken during the site reconnaissance are provided in Appendix F.

**6.2 General Site Setting**

The target property is primarily underlain by the Conasauga Formation. The Conasauga Formation is described as medium-bluish-gray fine-grained, thin-bedded argillaceous limestone and interbedded dark-gray shale in varying proportions (Szabo et al., 1988).

**6.3 Exterior Observations**

The parcels at 212 72nd St N, 217 71st St N, 220 72nd St N, and 7115 3rd Ave N include one-story single-family residential buildings. All other parcels are vacant and do not contain any structures.

**6.4 Specific Items of Interest**

In addition to the general observations described above, specific items/areas of interest are discussed below.

Area of Interest	Discussion
USTs	None Observed
ASTs	None Observed
Drums	None Observed
Drains/Sumps	None Observed
Stained Soil/Stressed Vegetation	None Observed
Water Wells	None Observed
Septic Tanks/Field Lines	None Observed
Electrical Transformers	Pole-mounted transformers observed. No leaks identified.
Solid Wastes	Household waste inside and outside of residential buildings.
Pits, Ponds, and/or Lagoons	None Observed
In-ground Hydraulic Lifts	None Observed
Waste Incineration	None Observed
Chemicals and/or Waste Materials	None Observed
Pipelines	None Observed

## 6.5 Adjoining Properties

Direction	Use
North	Residential
South	Residential/Commercial
East	Residential/Commercial
West	Residential/Park

## 6.6 Environmental Assessment Checklist

This Phase I ESA was completed by Spectrum personnel in accordance with the HUD Part 58 Environmental Requirements. A summary of each required section is provided below.

### 6.6.1 Airport Hazards

There are no civilian airports within 2,500 feet or military airports within 15,000 feet of the target property. A map depicting 2,500 and 15,000-foot buffers is provided in Appendix A (Figures 4 and 5). The HUD Airport Hazards worksheet is provided in Appendix H.

### 6.6.2 Air Quality

Based on a review of the [EPA NEPAassist Tool](#), the target property is not located within an area of non-attainment for any critical pollutants. However, the property is in an area of maintenance for ozone and particulate matter. The project includes new construction; however, the small-scale construction of single family homes on previously developed lots is not projected to exceed *de minimis* emissions levels or screening levels. As such, the project is in compliance with the HUD Clean Air section requirements. The HUD Air Quality worksheet is provided in Appendix H and an air quality map is provided in Appendix A (Figure 6).

### 6.6.3 Coastal Barrier Resources

The project is not located in a Coastal Barrier Resources Unit as shown in Appendix A (Figure 7). As such, the project is in compliance with the HUD Coast Barrier Resources section requirements. The HUD Coastal Barrier Resources worksheet is provided in Appendix H.

#### *6.6.4 Coastal Zone Management*

The target property is not within or near a designated coastal zone (Appendix A-Figure 8). As such, the project is in compliance with the HUD Coastal Zone Management section requirements. The HUD Coastal Zone Management worksheet is provided in Appendix H.

#### *6.6.5 Contamination and Toxic Substances*

This Phase I ESA did not identify any petroleum products or hazardous materials on the target property, aside from household quantities. Spectrum conducted a Phase II Limited Site Assessment on July 9, 2020 in order to identify potential contaminants at the property that may have originated from the nearby historical dry-cleaning facility and gas stations. Based on the results, all soil and groundwater samples reported VOCs to be below EPA RSLs. As such, the project is in compliance with the HUD Contamination and Toxic Substances section requirements. The HUD Multi-Family Site Contamination worksheet is provided in Appendix H.

#### *6.6.6 Endangered Species*

Based on our review of the USFWS IPaC Resources Report, seven endangered species (Indian Bat, Gray Bat, Black Warrior Waterdog, Rush Darter, Watercress Darter, Ovate Clubshell, and Upland Combshell) and three threatened species (Northern Long-eared Bat, Flattened Musk Turtle, and Finelined Pocketbook) were identified. The target property is located outside of defined Critical Habitat for the species. Based on the site reconnaissance, suitable habitat to support the listed threatened and/or endangered species was not identified within the project area. Further, the target property and surrounding area contains pre-existing residential dwellings and the proposed development activities are consistent with pre-existing land use. As such, the project is in compliance with this section. The HUD Endangered Species worksheet and IPaC Report are provided in Appendix H.

#### *6.6.7 Explosive/Flammable Hazards*

The target property does not include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries). Further, there were no ASTs identified within one mile of the

target property. As such, this project is considered to be in compliance with Explosive and Flammable hazards. The HUD Explosive/Flammable Hazards worksheet is provided in Appendix H.

#### *6.6.8 Farmland Protection*

The target property is not currently being farmed, forested, or being used as croplands. Currently, the property contains pre-existing residential buildings and vacant lots. Further, the property does not include soil units classified as prime farmland. As such, the project is in compliance with the HUD Farmlands Protection section requirements. The HUD Farmlands Protection worksheet is provided in Appendix H and an NRCS soil map is provided in Appendix A (Figure 9).

#### *6.6.9 Flood Insurance and Floodplain Management*

The target property is not located within a FEMA-designated Special Flood Hazard Zone or floodplain, based on the FEMA FIRM map 01073C0411H (Figure 10). As such, the project is in compliance with these sections. The HUD Flood Insurance worksheet and HUD Floodplain Management worksheets are provided in Appendix H.

#### *6.6.10 Historic Preservation*

According to the National Register of Historic Places map (Appendix A – Figure 11), the target property and surrounding properties carry no historical significance. However, the building on, and many within the APE are greater than 50 years old. The HUD Historic Preservation worksheet is provided in Appendix H.

#### *6.6.11 Noise Abatement & Control*

An evaluation of noise was completed using HUD guidance and the corresponding HUD DNL Calculator. Noise sources evaluated included major roadways within 1,000 feet of the project (having average daily traffic counts greater than or equal to 10,000 cars/day), 3,000 feet of a railroad, or 15 miles of a civilian or military airport. A summary of noise source findings is provided below.

Road Noise Source – The target property has one major road source, 1st Avenue North. Traffic volumes were based on our review of the [Alabama DOT Website](#).

Railroad Noise Source - The target property is not located within 3,000 feet of any railroad sources.

Airport Noise Sources - The target property is located within 15 miles of one airport source, the Birmingham Shuttlesworth International Airport (Appendix A – Figure 12). This airport is located approximately 0.5 miles northwest of the target property. According to the airport master record and airport worksheet, operations were reported to be less than established threshold values except for Air Carrier Operations and Air Taxi Operations. The number of Air Carrier Operations was reported to be 33,994 and the threshold is listed as 9,000. The number of Air Taxi Operations was reported to be 20,366 and the threshold is listed as 18,000. According to an airport noise contour map, the target property is located outside of the projected noise contours. Based on this information, it is unlikely that the airport operations will have an effect on the target property.

Summary – Based on our evaluation of noise sources as discussed above, the calculated noise exposure would be 65 db, which is considered acceptable.

The HUD DNL Calculation worksheet, Birmingham Shuttlesworth International Airport Contour Map, Airport Master Record and Airport Worksheet are provided in Appendix H.

#### *6.6.12 Sole Source Aquifers*

The target property does not lie within a sole source aquifer (Appendix A -Figure 13). As such, the project is in compliance with the HUD Sole Source Aquifers section requirements. The HUD Sole Source Aquifers worksheet is provided in Appendix H.

#### *6.6.13 Wetlands Protection*

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) map (Appendix A – Figure 14), there are no wetlands within the target property boundary. As such, the project is in compliance with this section. The HUD Wetlands Protection worksheet is provided in Appendix H.

#### *6.6.14 Wild & Scenic Rivers*

The property does not lie near any rivers as defined by the National Wild and Scenic Rivers act. A map showing nearby rivers from the Nationwide Rivers Inventory is provided in Appendix A (Figure 15) and the HUD Wild/Scenic Rivers worksheet is provided in Appendix H.

#### *6.6.15 Environmental Justice*

There were no adverse environmental impacts associated with this project as discussed above. The HUD Environmental Justice worksheet is provided in Appendix H.

## **7.0 INTERVIEWS**

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### **Eric Fancher – Birmingham Land Bank Authority – Property Owner (Representative)**

Spectrum conducted an interview with Mr. Fancher, a representative of the Birmingham Land Bank Authority (BLBA), on June 1, 2020. The BLBA has held the tax deed for approximately two years. Mr. Fancher stated that he has no knowledge of the prior use of the property. Mr. Fancher stated that he is unaware of any buried drums, AST, or USTs at the property. Further, Mr. Fancher is not aware of any environmental incidents associated with the property.

### **City of Birmingham Fire Department**

Spectrum contacted the Birmingham Fire Department on May 26, 2020. As of the issuance date of this report no information regarding the target property has been received.

## **8.0 VAPOR ENCROACHMENT SCREENING**

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### **8.1 Introduction**

Spectrum conducted a vapor encroachment screen (VES) in accordance with ASTM E2600-10: Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions as part of this Phase I ESA to identify a Vapor Encroachment Condition<sup>8</sup> (VEC) associated with the target property. Factors considered by Spectrum's Environmental Professional included the following:

- Use of Target Property
- Types of Chemicals of Concern (COC)
- Location(s) of Known/Suspected Contamination
- Soil Characteristics
- Depth to Groundwater
- Vapor Conduits
- Cleanup Status of Contaminated Property(s)

### **8.2 Discussion**

As part of the VES evaluation, Spectrum considered the above factors in addition to the anticipated groundwater flow direction and barriers/conduits affecting groundwater flow, if any. The position (with respect to the groundwater flow direction) of any site to the target property is essential in helping evaluate whether or not a site (or contamination associated with a site) represents a VEC to the target property.

Based on our review of site topography and surface water drainage features, it appears that the groundwater flow direction in the vicinity of the target property would be to the north-northwest

### **8.3 Findings**

All parcels of the target property are currently developed for single-family residential use. The parcels located at 114 72nd St N, 7100 2nd Ave N, 7120 2nd Ave N, 212 72<sup>nd</sup> St N, and 7132 2nd Ave N were developed for residential use as early as 1911. The parcels at 220 72nd St N and 111 71st St N were developed for residential use by approximately

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<sup>8</sup> Vapor Encroachment Condition (VEC) — the presence or likely presence of COC vapors in the sub-surface of the target property (TP) caused by the release of vapors from contaminated soil or groundwater either on or near the TP.

1930. The parcels at 217 71st St N, 7109 3rd Ave N, 7111 3rd Ave N, and 7115 3rd Ave N developed for residential use by approximately 1950. An apartment building was depicted at 114 72<sup>nd</sup> St N on the 1950 and 1967 Sanborn maps. The building at 7132 2nd Ave N was demolished by 2006 and the buildings at 111 71st St N and 7100 2nd Ave N were demolished by 2017. Currently, the parcels at 212 72nd St N, 217 71st St N, 220 72nd St N, and 7115 3rd Ave N include single-family residential buildings. Buildings at all other parcels have been demolished. Based on the findings of the site reconnaissance and interviews with people knowledgeable of the site, the use of petroleum products and/or hazardous materials was not documented.

Several sites were identified in the database report within the search distance set forth in ASTM E2600-10 (up to 0.33 miles from the target property for VOCs and 0.1 miles for petroleum sites). *Based on our review of this data, a VEC to the target property is unlikely.*

## **9.0 FINDINGS**

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Spectrum has conducted a review of readily available and reasonably ascertainable records for the site, conducted a site reconnaissance along with interviews with persons knowledgeable of the site and surrounding properties, and evaluated the data during the preparation of this report. Based on our evaluation of the data, Spectrum presents the following findings:

- *Vapor Encroachment Conditions*
- *Current and historical use of target property; and*
- *Current and historical use of adjacent properties*

## 10.0 OPINION

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Based on the information obtained during the site reconnaissance, records reviews, and interviews, Spectrum has evaluated current and historical information pertaining to the target and surrounding properties. Based on these evaluations, opinions regarding conditions observed and the classification of these conditions is presented below. For each condition, Spectrum has classified each as a REC, a historical REC<sup>9</sup>, a Controlled REC<sup>10</sup>, or a BER and presents an opinion why the condition is classified as such.

### 10.1 Vapor Encroachment Condition

Pursuant to ASTM E1527-13, the EP must make a determination as to whether or not a VEC is associated with the target property. Based on our review of readily available historical information and other information obtained during the site reconnaissance, Spectrum presents the following opinions.

All parcels of the target property are currently developed for single-family residential use. The parcels located at 114 72nd St N, 7100 2nd Ave N, 7120 2nd Ave N, 212 72nd St N, and 7132 2nd Ave N were developed for residential use as early as 1911. The parcels at 220 72nd St N and 111 71st St N were developed for residential use by approximately 1930. The parcels at 217 71st St N, 7109 3rd Ave N, 7111 3rd Ave N, and 7115 3rd Ave N developed for residential use by approximately 1950. An apartment building was depicted at 114 72nd St N on the 1950 and 1967 Sanborn maps. The building at 7132 2nd Ave N was demolished by 2006 and the buildings at 111 71st St N and 7100 2nd Ave N were demolished by 2017. Currently, the parcels at 212 72nd St N, 217 71st St N, 220 72nd St N, and 7115 3rd Ave N include single-family residential buildings. Buildings at

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<sup>9</sup> *Historical Recognized Environmental Condition*—A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.

<sup>10</sup> *Controlled Recognized Environmental Condition*—A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

all other parcels have been demolished. Based on the findings of the site reconnaissance and interviews with people knowledgeable of the site, the use of petroleum products and/or hazardous materials was not documented. Several sites were identified in the database report within the search distance set forth in ASTM E2600-10 (up to 0.33 miles from the target property for VOCs and 0.1 miles for petroleum sites). *Based on our review of this data, a VEC to the target property is unlikely.*

## **10.2 Current and Historical Use of Target Property**

All parcels of the target property are currently developed for single-family residential use. The parcels located at 114 72nd St N, 7100 2nd Ave N, 7120 2nd Ave N, 212 72nd St N, and 7132 2nd Ave N were developed for residential use as early as 1911. The parcels at 220 72nd St N and 111 71st St N were developed for residential use by approximately 1930. The parcels at 217 71st St N, 7109 3rd Ave N, 7111 3rd Ave N, and 7115 3rd Ave N developed for residential use by approximately 1950. An apartment building was depicted at 114 72nd St N on the 1950 and 1967 Sanborn maps. The building at 7132 2nd Ave N was demolished by 2006 and the buildings at 111 71st St N and 7100 2nd Ave N were demolished by 2017. Currently, the parcels at 212 72nd St N, 217 71st St N, 220 72nd St N, and 7115 3rd Ave N include single-family residential buildings. Buildings at all other parcels have been demolished. Based on the findings of the site reconnaissance and interviews with people knowledgeable of the site, the use of petroleum products and/or hazardous materials was not documented. Based on the findings of the site reconnaissance and interviews with people knowledgeable of the site, the use of petroleum products and/or hazardous materials was not documented. *Based on our review of current and historical site data, no RECs were identified in connection with the target property.*

## **10.3 Current and Historical Use of Adjacent Property**

Based on our review of current and historical record sources, adjoining properties to the northeast have been developed for residential use since approximately 1911. By the 1930s, adjoining properties to the north and northwest were developed for residential use. Adjoining properties to the east have been developed for commercial use since the 1960s. Prior to this, adjoining properties to the east were developed for residential use. Adjoining properties to the west and southwest have remained vacant since approximately 1911.

Adjoining properties to the south and southeast have been developed for mixed commercial and residential use since the 1980s. Prior to this, adjoining properties to the south and southeast developed were developed predominately for residential use. Adjoining properties to the west have been developed for residential use since the 1930s. Prior to this, they were undeveloped. A gas station was located at a surrounding property, approximately 214 feet south, from approximately 1930 until the 1980s. A gas station was located at a surrounding property, approximately 75 feet south, in the 1930s and 1940s; a dry-cleaning facility operated at the property in the 1950s. Between 1956 and 1967, the dry-cleaning facility was demolished and a separate building was developed for use as a coin-operated laundry facility.

Spectrum conducted a Phase II Limited Site Assessment on July 9, 2020 in order to identify contaminants at the property that may have originated from the historical dry-cleaning facility and gas stations. Based on the results, all soil and groundwater samples reported VOCs to be below EPA RSLs. *Based on our review of current and historical site data, no RECs were identified in connection with the target property.*

## 11.0 CONCLUSION

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We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 for the target property. Any exceptions to, or deletions from, this practice are described in Section 12.0 – Deviations of this report. Based on our review of current and historical site data, the following conclusions are presented.

### ***Recognized Environmental Conditions***

A recognized environmental condition (REC), as defined in the ASTM Standard, means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not REC's. *Based on our review of current and historical site data, no RECs were identified in connection with the target property.*

### ***Historical Recognized Environmental Conditions***

A historical recognized environmental condition (HREC), as defined in the ASTM Standard, is an environmental condition that in the past would have been identified as a REC, but has been adequately addressed and therefore no longer represents a REC. *Based on our review of current and historical site data, no HRECs were identified in connection with the target property.*

### ***Controlled Recognized Environmental Conditions***

A controlled recognized environmental condition (CREC), as defined in the ASTM Standard, is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent or meeting risk-based criteria established by the regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations,

institutional controls, or engineering controls). *Based on our review of current and historical site data, no CRECs were identified in connection with the target property.*

***Business Environmental Risks***

A business environmental risk (BER), as defined in the ASTM Standard, is a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. *Based on our review of current and historical site data, no BERs were identified in connection with the target property.*

## **12.0 DEVIATIONS**

---

Historical information regarding the subject site has been obtained through the use of historical topographic maps, aerial photographs and interviews with individuals cognizant of the site. The earliest map that was readily available and reviewed was a 1911 Sanborn map. Through a review of historical record sources; the use of the target property could not be independently evaluated on 5-year increments back to a time where the property was not developed. The data gaps in the historical review were not during times of significant change on the target property. As such, it is not believed that this lack of readily available or reasonable ascertainable data represents a significant data gap that would lead to the identification of additional RECs or BERs on the target property.

### **13.0 REFERENCES**

---

40 CFR Part 312 – Innocent Landowners, Standard for Conducting All Appropriate Inquiry.

American Society of Testing and Materials (ASTM), Practice E 1527-13. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Environmental Data Resources, Inc. Database Report dated May 15, 2020.

Environmental Data Resources, Inc. Fire Insurance Map dated May 17, 2020.

Environmental Data Resources, Inc. Historical Aerials Report dated May 15, 2020.

Szabo, M.W., Osborne, E.W., Copeland, C.W. Jr., and Neathery, T.L., 1988, Geologic Map of Alabama, Geological Survey of Alabama Special Map 220, scale 1:250,000.

## **14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS**

---

We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional<sup>11</sup> responsible for conducting the Phase I Environmental Site Assessment and preparation of the report, as defined in §312.10 of 40 CFR Part 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.

### **Spectrum Environmental, Inc.**

  
Jamie D. Cox, P.G.  
Division Manager

---

<sup>11</sup> Environmental Professional – (1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f). (2) Such a person must (i) hold a current Professional Engineer’s or Professional Geologist’s license or registration from a state, tribe, or U.S. territory and have the equivalent of three years full-time relevant experience; or be licensed/certified by the Federal government, a state, tribe, and U.S. Territory to perform environmental inquiries as defined in §312.21 and have the equivalent of three years full-time relevant experience; or have a baccalaureate or higher degree from an accredited institution from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five years of full time relevant experience; or have the equivalent of ten years of full time relevant experience.

## 15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS



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**Jamie Davies Cox, P.G. (ALPG 1469)**  
*Atlanta Metro Office – Geologist/Division Manager*  
*Atlanta Office - P.O. Box 501255 - Atlanta, GA – 205-612-9298*  
*Birmingham Office - 85 Spectrum Cove– Alabaster, AL 35007 – 205-664-2000 - jcox@specenviro.com*

---

<p><b>Areas of Expertise</b></p> <ul style="list-style-type: none"><li>• Management &amp; Coordination</li><li>• Technical Writing</li><li>• Contamination Assessments</li><li>• Environmental Assessments</li><li>• Regulatory Compliance Analysis &amp; Planning</li><li>• Environmental Auditing</li><li>• Sales &amp; Marketing</li><li>• NPDES &amp; SID Permitting Technical Assistance</li></ul> <p><b>Years of Experience</b></p> <p><i>With Spectrum:</i> 5 years <i>University Employee:</i> 1 year</p> <p><b>Education</b></p> <p>2012 - BS Geology, UA 2012 - GIS Certification</p>	<p><b>Overview</b></p> <p>Mrs. Cox is a graduate of the University of Alabama with a BS degree in Geology. She also holds a Geographic Information Systems Certificate from the University of Alabama. Mrs. Cox specializes in environmental site assessments, contamination assessments, environmental audits, construction and industrial stormwater compliance, and Alabama Tank Trustfund projects. Jamie has been employed with Spectrum since 2012.</p> <p>Mrs. Cox is responsible for project management, technical writing, state agency coordination, client coordination, budget management and marketing for the Spectrum Environmental Atlanta Division in Georgia.</p> <p><b>Areas of Involvement/Responsibility</b></p> <ul style="list-style-type: none"><li>• Management of Alabama Tank Trust Fund (ATTF) Sites</li><li>• Site Manager and technical writer of environmental site assessments</li><li>• Phase I and II Property evaluations for Real Estate Transactions and Development</li><li>• NPDES and SID Permitting-Technical Assistance</li><li>• Best Management Practices (BMP) and Spill Prevention Control and Countermeasure (SPCC) Plan Development and Implementation;</li><li>• Underground Storage Tank (UST) Assessment and Remediation;</li><li>• Regulatory Compliance Analysis and Planning;</li><li>• Air Monitoring Studies; and</li><li>• Environmental audits and regulatory compliance.</li></ul> <p><b>Training/Certification</b></p> <ul style="list-style-type: none"><li>• Alabama Professional Geologist (License Number 1469)</li><li>• GSWCC - Level II - Plan Reviewer</li><li>• Mine Safety and Health Administration (MSHA) Training Program completed on July 13, 2012.</li><li>• 40-hour Hazardous Waste Operations and Emergency Response (OSHA HAZWOPER) Certification of completed on August 14, 2015.</li><li>• Asbestos Inspector - Environmental Institute Certificate Number 4889</li><li>• Lead and Environmental Hazard Associated Lead Inspector</li></ul>
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**16.0 APPENDIXES**

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The following appendices are included and attached to this report:

Appendix A: Figures

Appendix B: User Questionnaire

Appendix C: Regulatory Records Documentation (Computer Database Report)

Appendix D: Fire Insurance Map Report

Appendix E: Historical Maps and Aerial Photographs

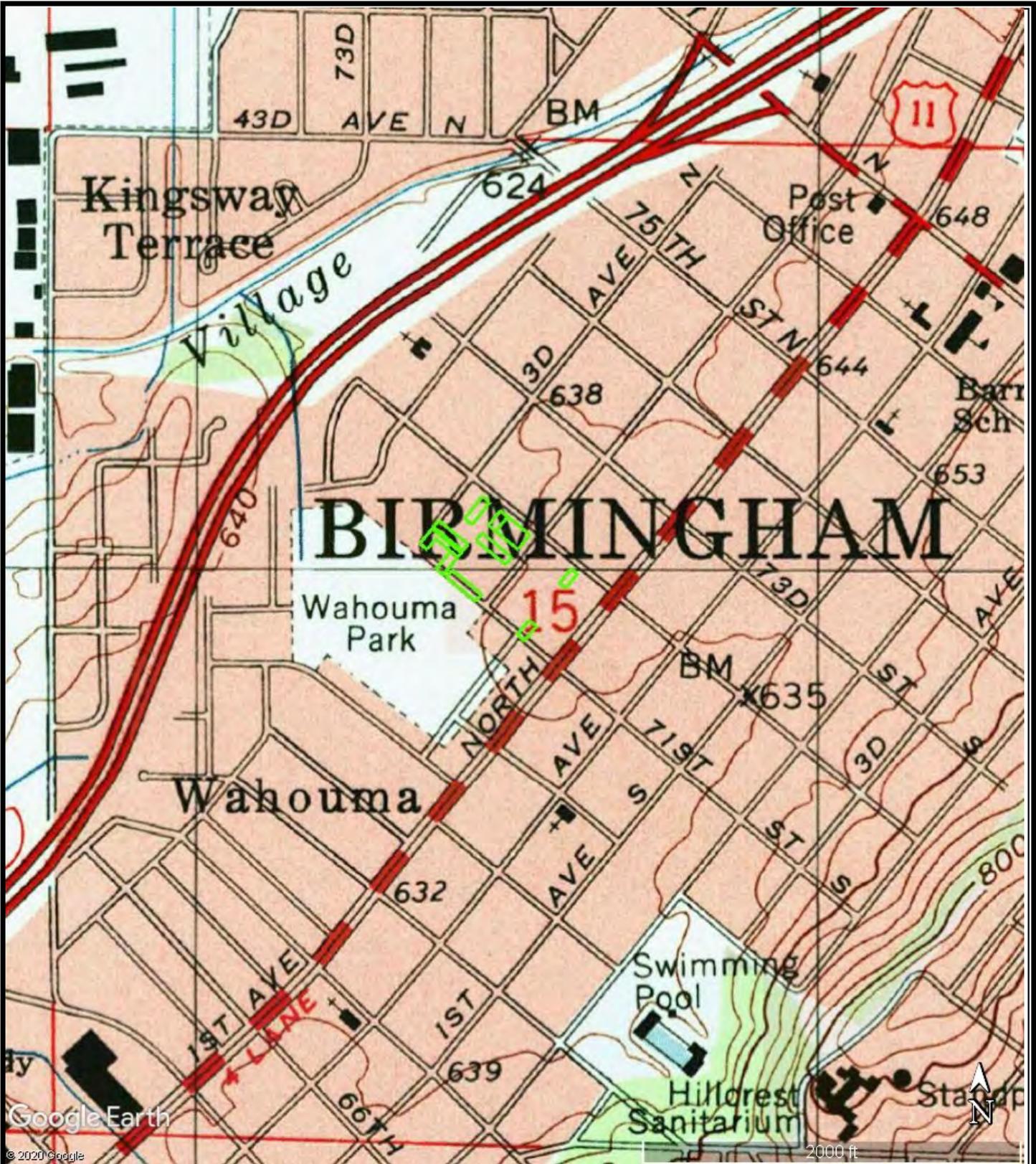
Appendix F: Site Reconnaissance Photographs

Appendix G: Phase II ESA Report

Appendix H: HUD Partner Worksheets and Supporting Documentation

APPENDIX A

FIGURES



Source: Image courtesy of EDR. Approximate site location outlined in green.

NO.	DATE	REVISION NOTE	BY

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F-205-664-2142

TITLE
Figure 1 - Site Location East Lake Scattered Sites Birmingham, Alabama



Source: Image courtesy of Google Earth Approximate site location outlined in green

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O - 205-664-2000  
F-205-664-2142

TITLE
<b>Figure 2 - Site Aerial Map</b> East Lake Scattered Sites Birmingham, AL



Source: Image courtesy of Google Earth and Jefferson County.

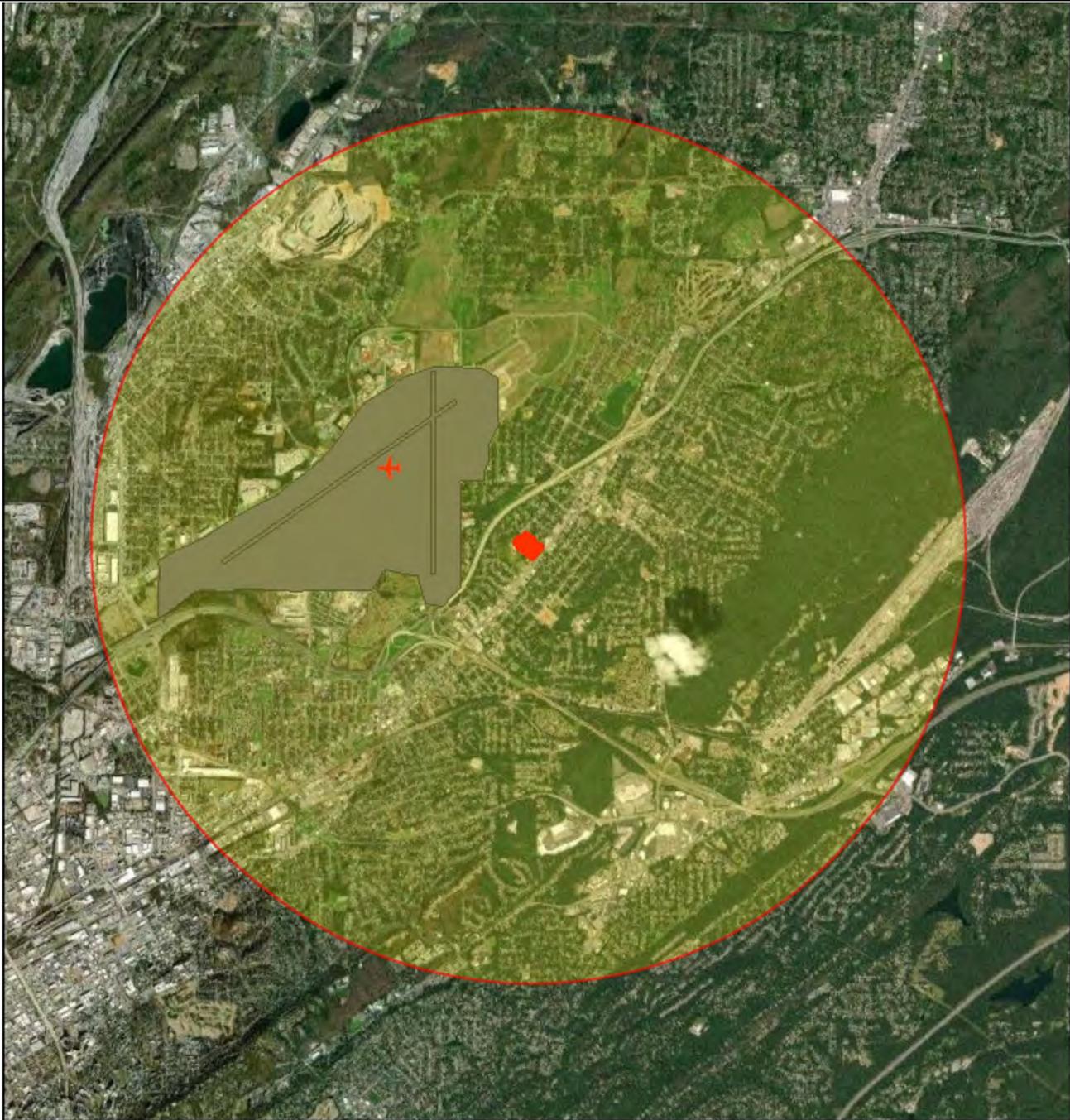
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PA-1	Habitat for Humanity	12300152021008000	111 71st St N
PA-2	Habitat for Humanity	12300152021009000	217 71st St N
PA-3	Birmingham Land Bank Authority	12300152021005000	7109 3rd Ave N
PA-4	Birmingham Land Bank Authority	12300152021004000	7111 3rd Ave N
PA-5	Habitat for Humanity	12300152020003000	7115 3rd Ave N
PA-6	Habitat for Humanity	12300152020020000	220 72nd St N
PA-7	Birmingham Land Bank Authority	12300152020018000	212 72nd St N
PA-8	Birmingham Land Bank Authority	12300152020017000	7132 2nd Ave N
PA-9	Birmingham Land Bank Authority	12300152020015000	7120 2nd Ave N
PA-10	Birmingham Land Bank Authority	12300152020010000	7100 2nd Ave N
PA-11	Habitat for Humanity	12300151038006000	114 72nd St N



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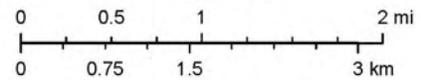
TITLE
<b>Figure 3 - Site Tax Map</b> East Lake Scattered Sites Birmingham, AL



July 13, 2020

1:72,224

-  Project Buffer
-  Site Location
-  Airport Points
-  Airport Polygons



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, EPA OEI

Source: Image courtesy of NEPAAssist.

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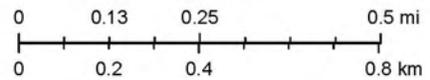
TITLE
<b>Figure 4 - 15000' Airport Map</b> East Lake Scattered Sites Birmingham, AL



July 13, 2020

1:18,056

-  Project Buffer
-  Site Location
-  Airport Points
-  Airport Polygons



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, EPA OEI

Source: Image courtesy of NEPAAssist.

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TITLE
<b>Figure 5 - 2500' Airport Map</b> East Lake Scattered Sites Birmingham, AL



**Geographic coordinates:**

POLYGON (33.556678,-86.737593,33.557679,-86.736683,33.556084,-86.734392,33.555033,-86.735259,33.556678,-86.737593)  
with buffer 0 miles

**Source: Image courtesy of NEPAAssist.**

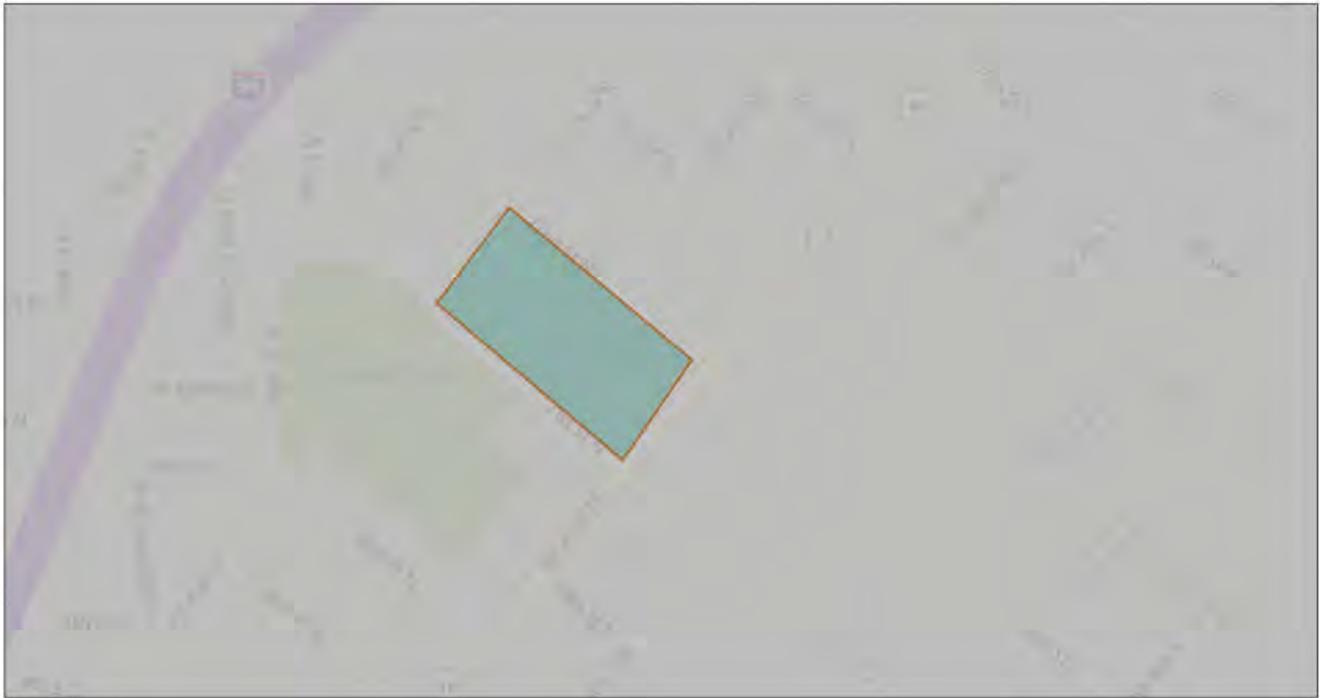
NO.	DATE	REVISION NOTE	BY

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Checked By:	Date:
AAH	7/13/2020
Project Mgr.:	File Name:
JC	3357-001-01

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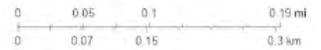
TITLE
<b>Figure 6a - Air Quality Map</b> East Lake Scattered Sites Birmingham, AL



July 21, 2020

- Project 1
- PM2.5 24hr (2006 standard)
- Maintenance
- Nonattainment

1:4,586



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**Geographic coordinates:**

POLYGON (33.556678,-86.737593,33.557679,-86.736683,33.556084,-86.734392,33.555033,-86.735259,33.556678,-86.737593) with buffer 0 miles

**Source: Image courtesy of NEPAAssist.**

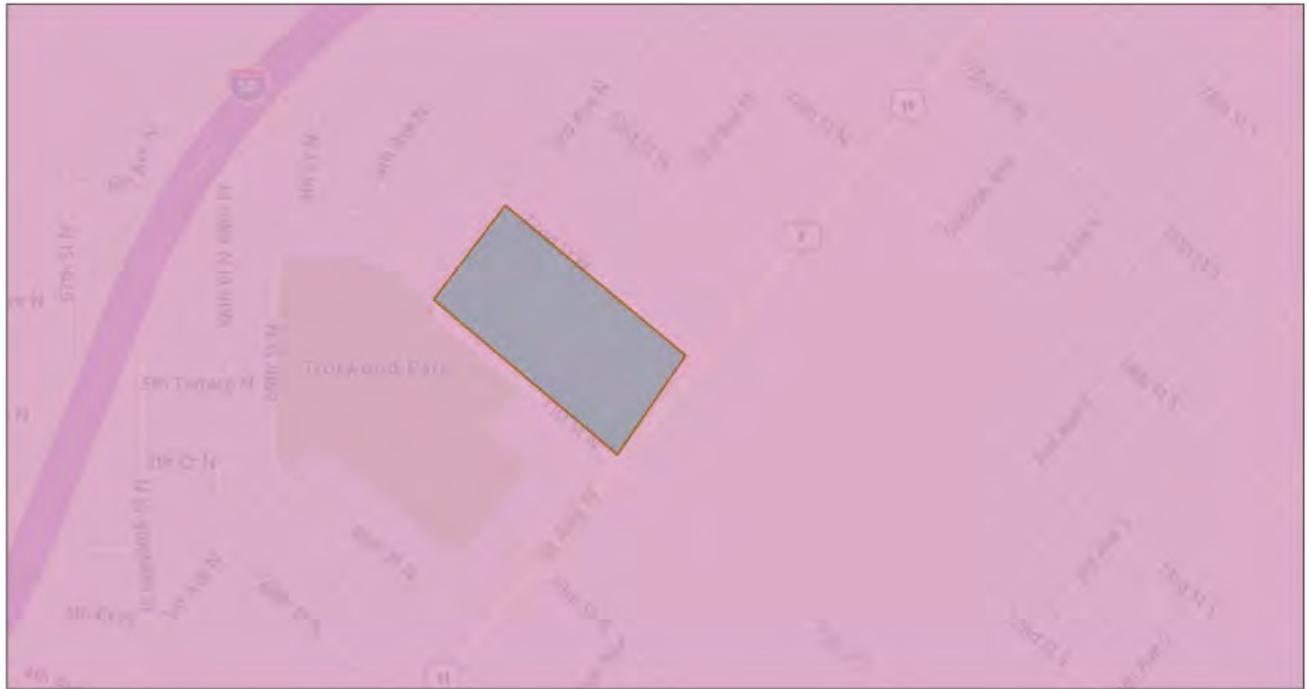
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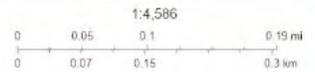
85 Spectrum Cove  
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F-205-664-2142

TITLE
<b>Figure 6b- Air Quality Map</b> East Lake Scattered Sites Birmingham, AL



July 21, 2020

- Project 1
- Ozone 1-hr (1979 standard-revoked)
- Maintenance (NAAQS revoked)
- Nonattainment (NAAQS revoked)



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**Geographic coordinates:**

POLYGON (33.556678,-86.737593,33.557679,-86.736683,33.556084,-86.734392,33.555033,-86.735259,33.556678,-86.737593)  
with buffer 0 miles

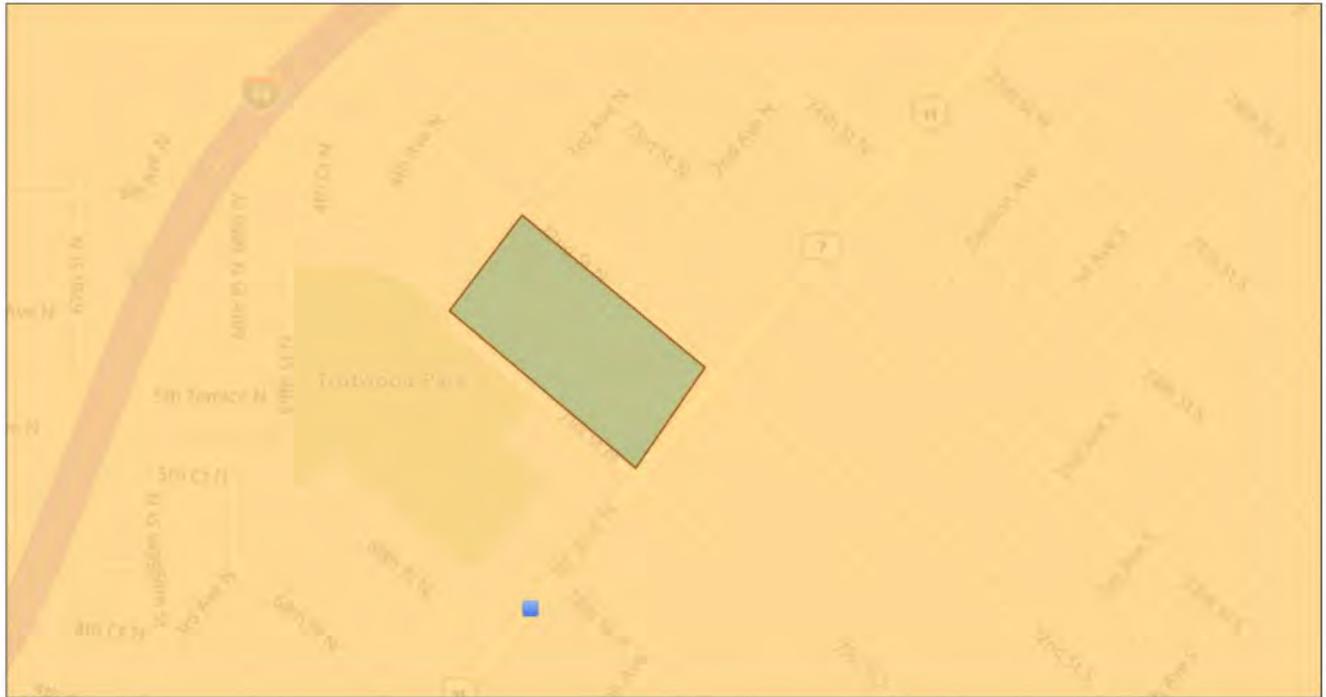
**Source: Image courtesy of NEPAssist.**

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Project Mgr.:	File Name:
JC	3357-001-01



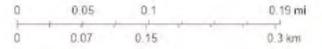
TITLE
<b>Figure 6c - Air Quality Map</b> East Lake Scattered Sites Birmingham, AL



July 21, 2020

- Project 1
- Air Pollution (ICIS-AIR)
- PM2.5 Annual (1997 standard)
- Maintenance (NAAQS revoked)
- Nonattainment

1:4,586



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**Geographic coordinates:**

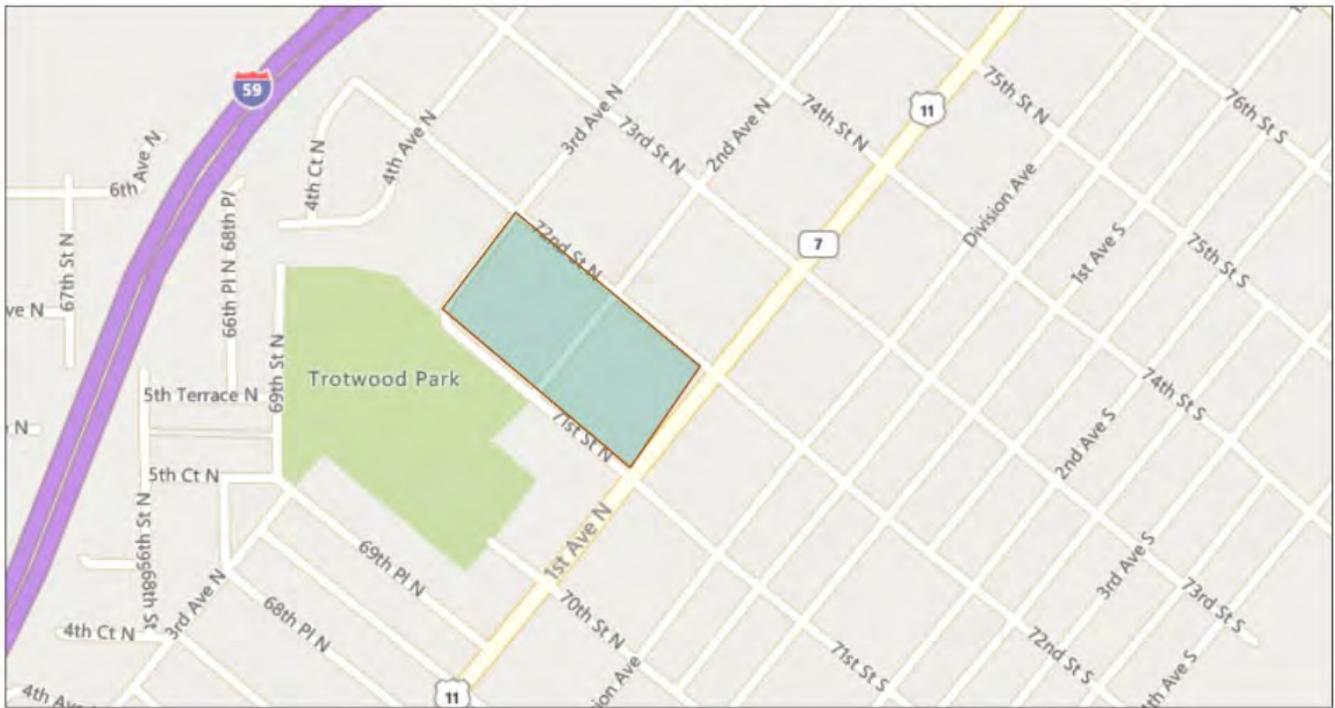
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with buffer 0 miles

**Source: Image courtesy of NEPAssist.**

NO.	DATE	REVISION NOTE	BY

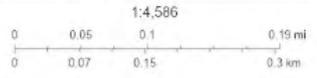
Drawn By:	Project #:
AAH	3357
Checked By:	Date:
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Project Mgr.:	File Name:
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TITLE
<b>Figure 6d - Air Quality Map PM 2.5 Annual East Lake Scattered Sites Birmingham, AL</b>



July 21, 2020

- |  |  |                                      |  |                                |
|--|--|--------------------------------------|--|--------------------------------|
| Project 1                              | Ozone 8-hr (2015 Standard) Maintenance | Nonattainment                        | PM2.5 Annual (2012 standard) Maintenance | Nonattainment                  |
| Ozone 8-hr (2008 standard) Maintenance | Nonattainment                          | SO2 1-hr (2010 standard) Maintenance | Nonattainment                            | CO (1971 Standard) Maintenance |
| Nonattainment                          | Lead (2008 standard) Maintenance       | Nonattainment                        | PM10 (1987 standard) Maintenance         | Nonattainment                  |
|  |  |                                      | Maintenance                              | Maintenance                    |



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**Geographic coordinates:**

POLYGON (33.556678,-86.737593,33.557679,-86.736683,33.556084,-86.734392,33.555033,-86.735259,33.556678,-86.737593) with buffer 0 miles

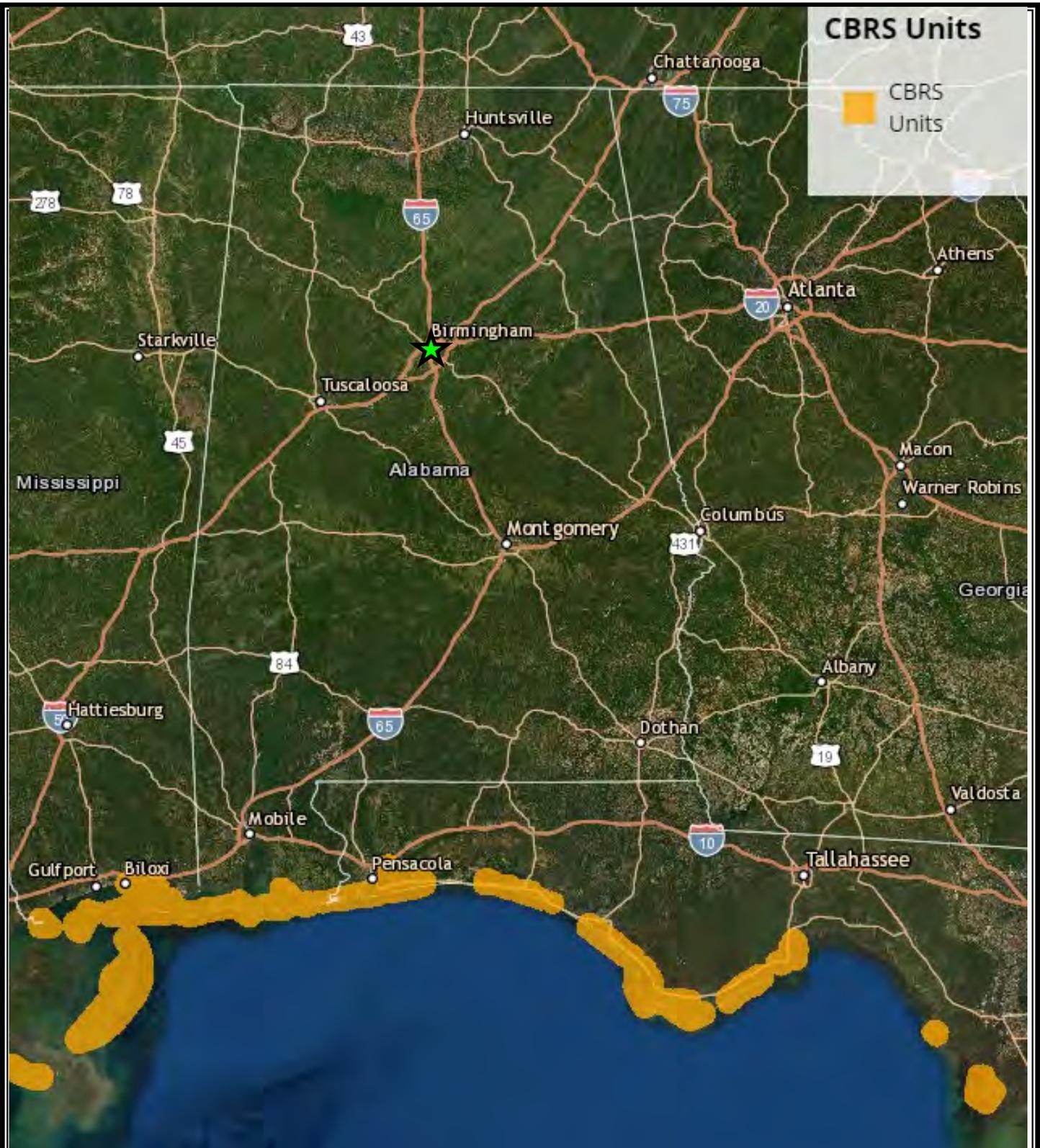
Source: Image courtesy of NEPAssist.

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Checked By:	Date:
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Project Mgr.:	File Name:
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TITLE
<b>Figure 6e- Air Quality Map</b> East Lake Scattered Sites Birmingham, AL



**CBRS Units**

CBRS Units

Source: Image courtesy of USFWS. Approximate site location marked in green.

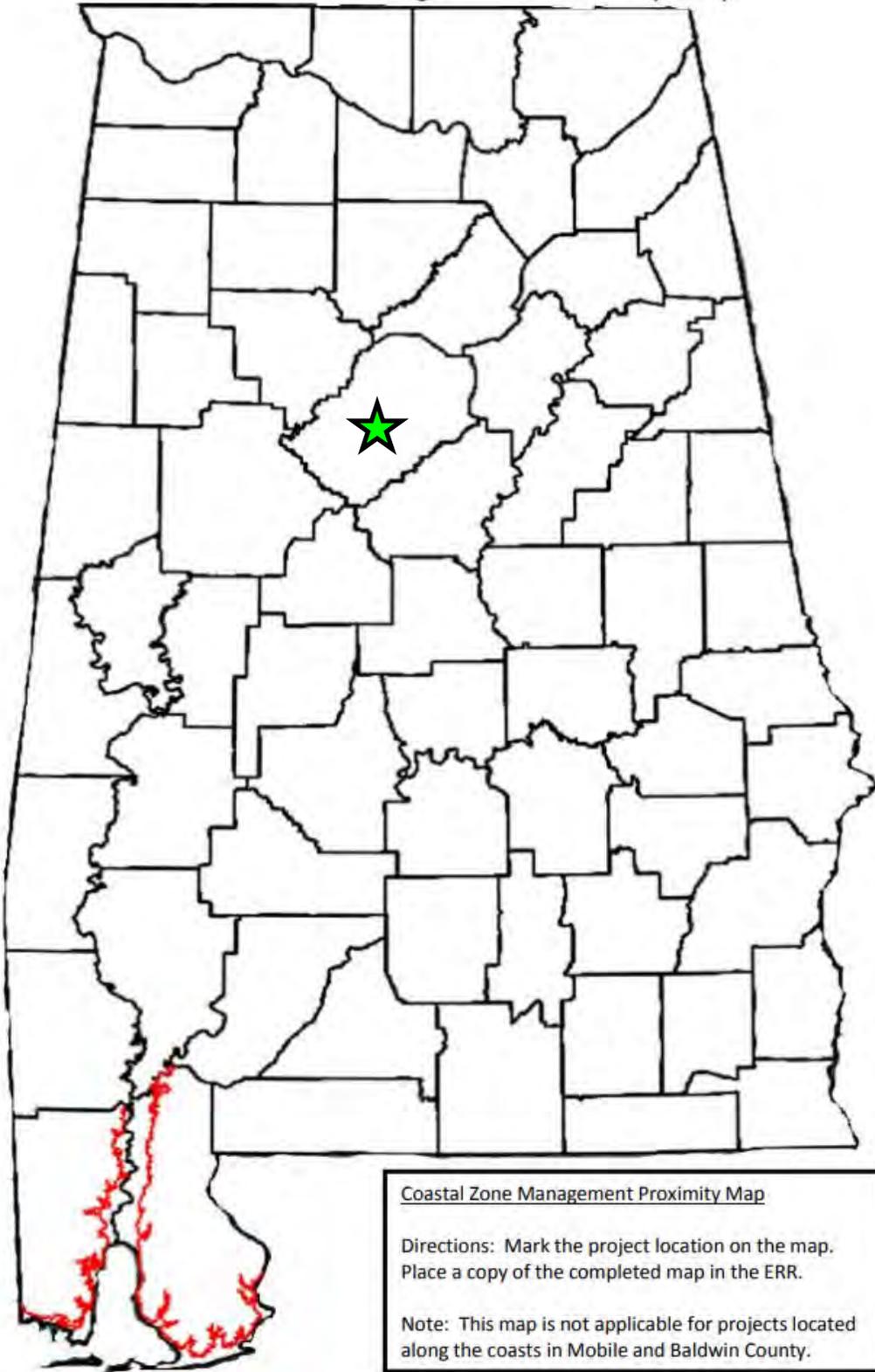
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Checked By:	Date:
AAH	7/13/2020
Project Mgr.:	File Name:
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F-205-664-2142

TITLE
Figure 7- CBRS Map East Lake Scattered Sites Birmingham, AL



**Coastal Zone Management Proximity Map**

Directions: Mark the project location on the map. Place a copy of the completed map in the ERR.

Note: This map is not applicable for projects located along the coasts in Mobile and Baldwin County.

Source: Image courtesy of Alabama Department of Economic and Community Affairs. Site location county is marked in green.

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TITLE
<b>Figure 8– Coastal Zone Management</b> East Lake Scattered Sites Birmingham, AL

Farmland Classification—Jefferson County, Alabama



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
43	Tupelo-Urban land complex, 0 to 4 percent slopes	Not prime farmland	1.9	100.0%
<b>Totals for Area of Interest</b>			<b>1.9</b>	<b>100.0%</b>

Source: Image courtesy of NRCS. Site Location in red.

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TITLE
<b>Figure 9 - Prime Farmland Map</b> East Lake Scattered Sites Birmingham, AL

# National Flood Hazard Layer FIRMette



86°44'32"W 33°33'40"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, AEV</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/13/2020 at 2:07 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and undemonstrated areas cannot be used for regulatory purposes.

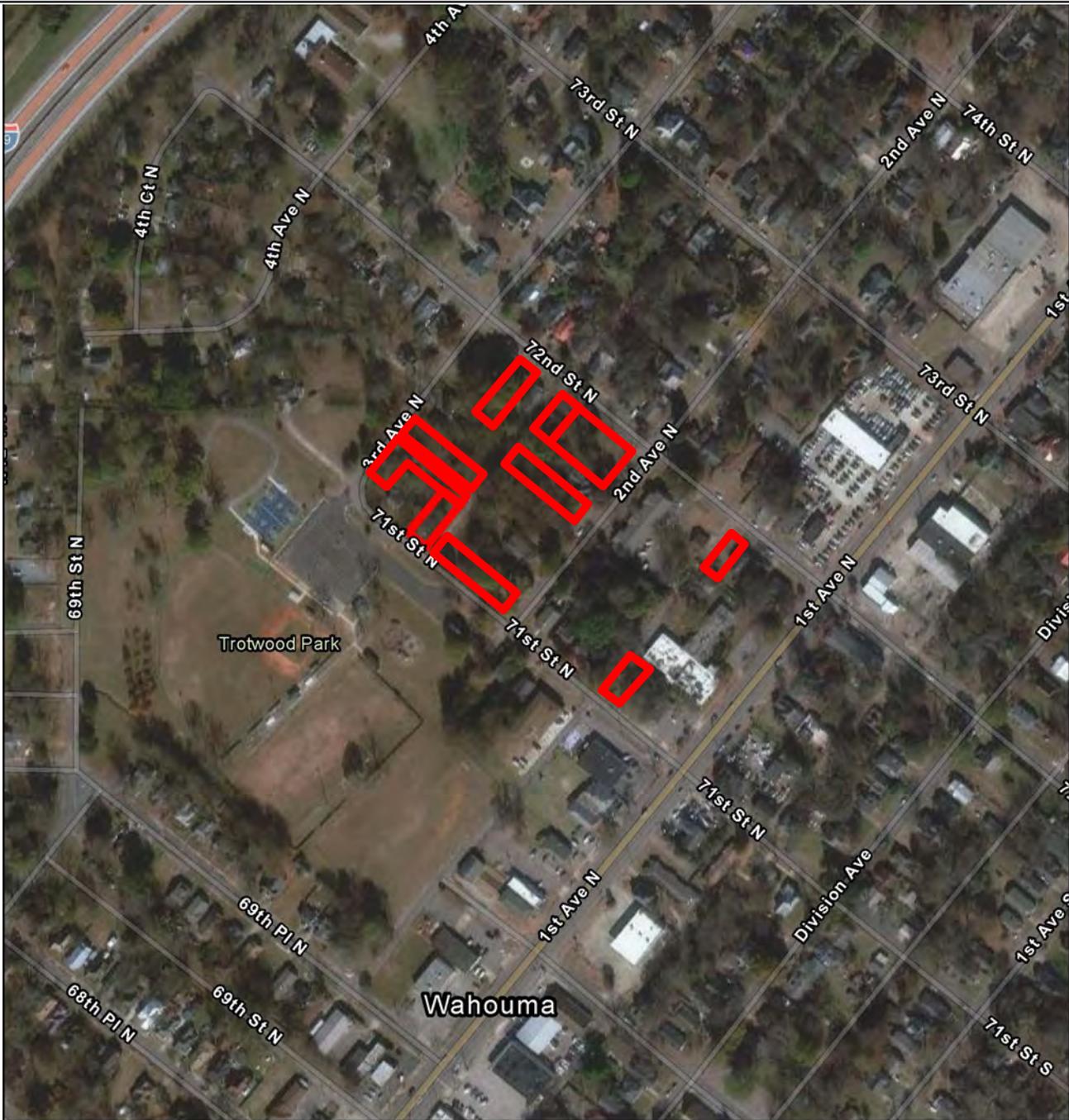
Source: Image courtesy of FEMA. Site Location in red.

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F-205-664-2142

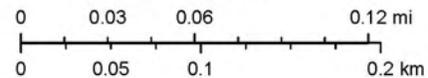
TITLE
Figure 10- FEMA Map East Lake Scattered Sites Birmingham, AL



July 13, 2020

1:4,514

 Site Location



 National Register of Historic Places

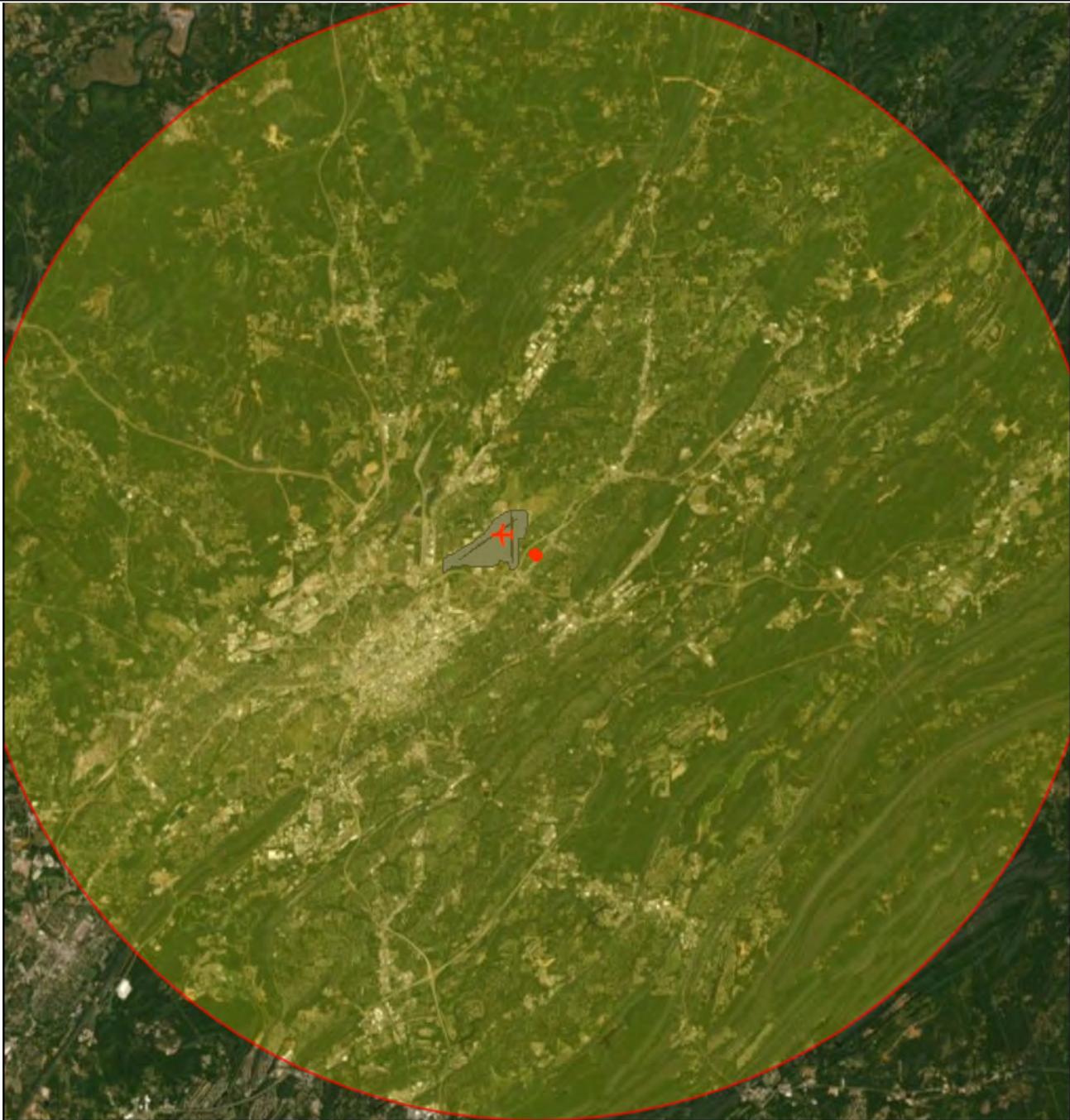
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, EPA OEI, OFA

Source: Image courtesy of NEPAssist.

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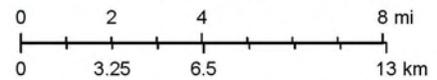
TITLE
Figure 11 - NRHP Map East Lake Scattered Sites Birmingham, AL



July 13, 2020

1:288,895

-  Project Buffer
-  Site Location
-  Airport Points
-  Airport Polygons



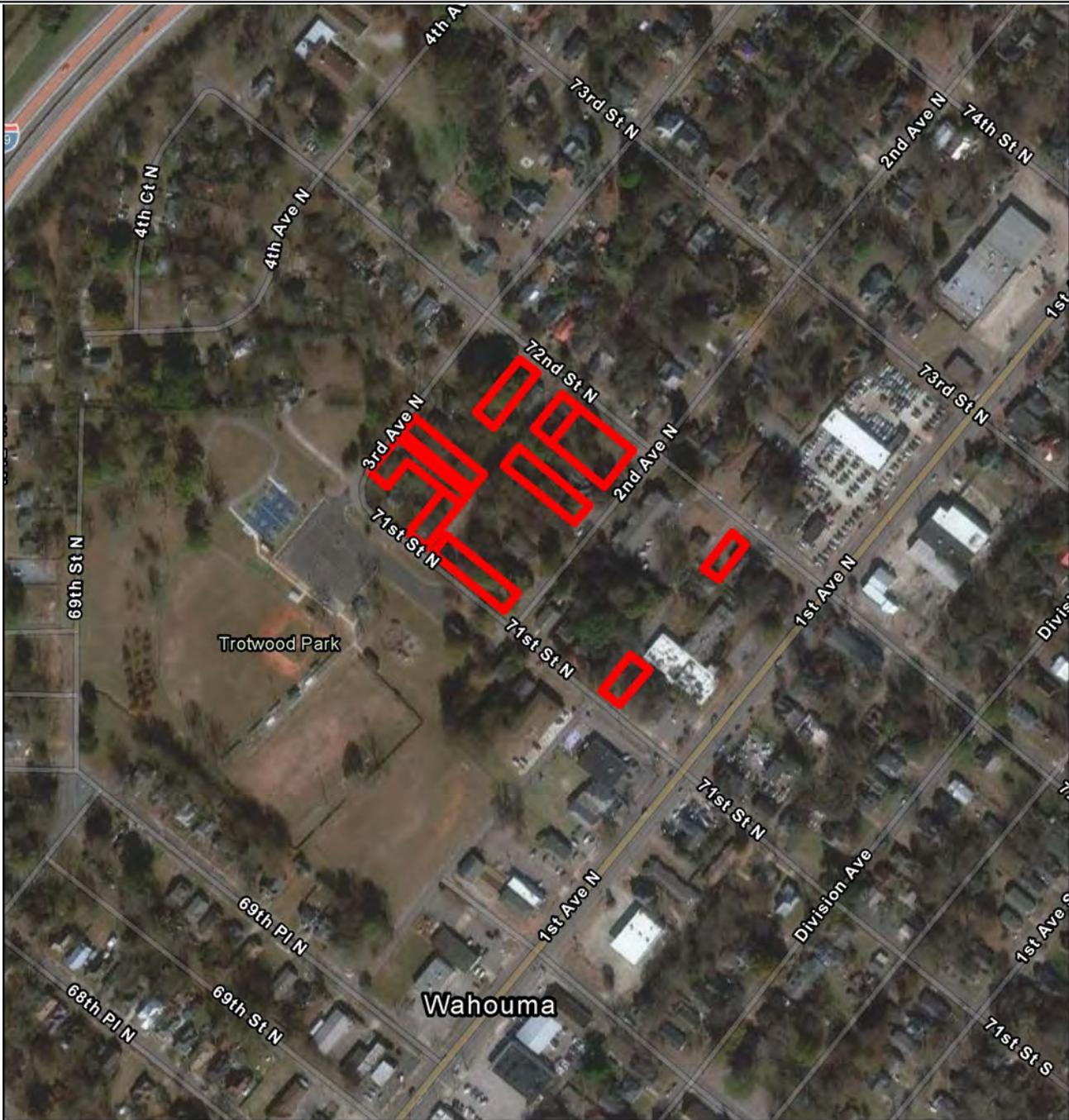
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, EPA OEI

Source: Image courtesy of NEPAAssist.

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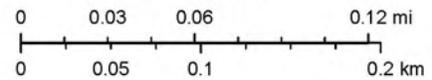
TITLE
<b>Figure 12 - 15 Mile Airport Map</b> East Lake Scattered Sites Birmingham, AL



July 13, 2020

1:4,514

 Site Location



 Sole Source Aquifers

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

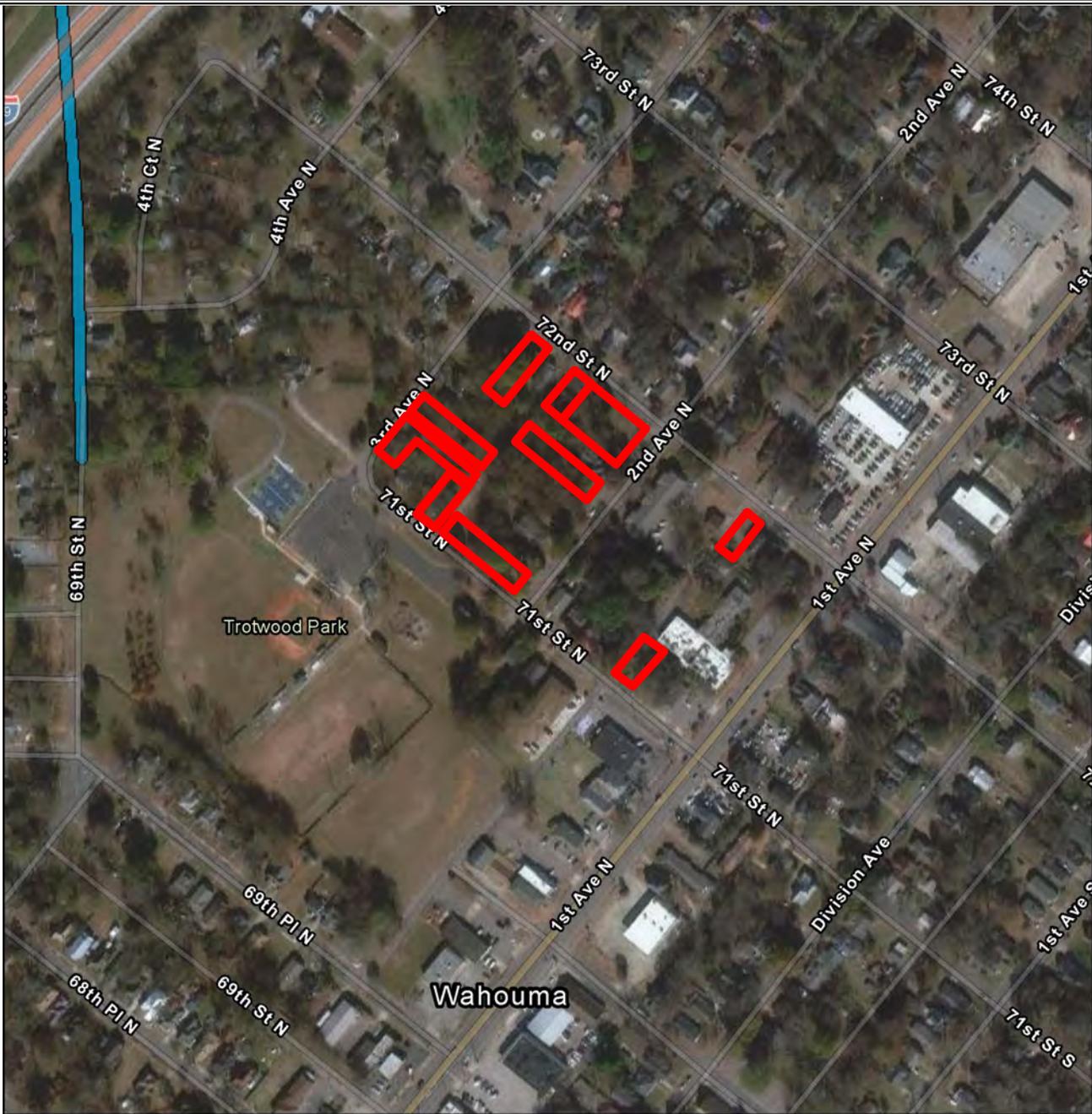
Source: Image courtesy of NEPAssist.

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	7/13/2020
Project Mgr.:	File Name:
JC	3357-001-01



TITLE
<b>Figure 13 - Sole Source Aquifer Map</b> East Lake Scattered Sites Birmingham, AL



July 13, 2020

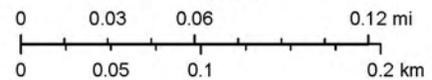
1:4,514

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine

Site Location



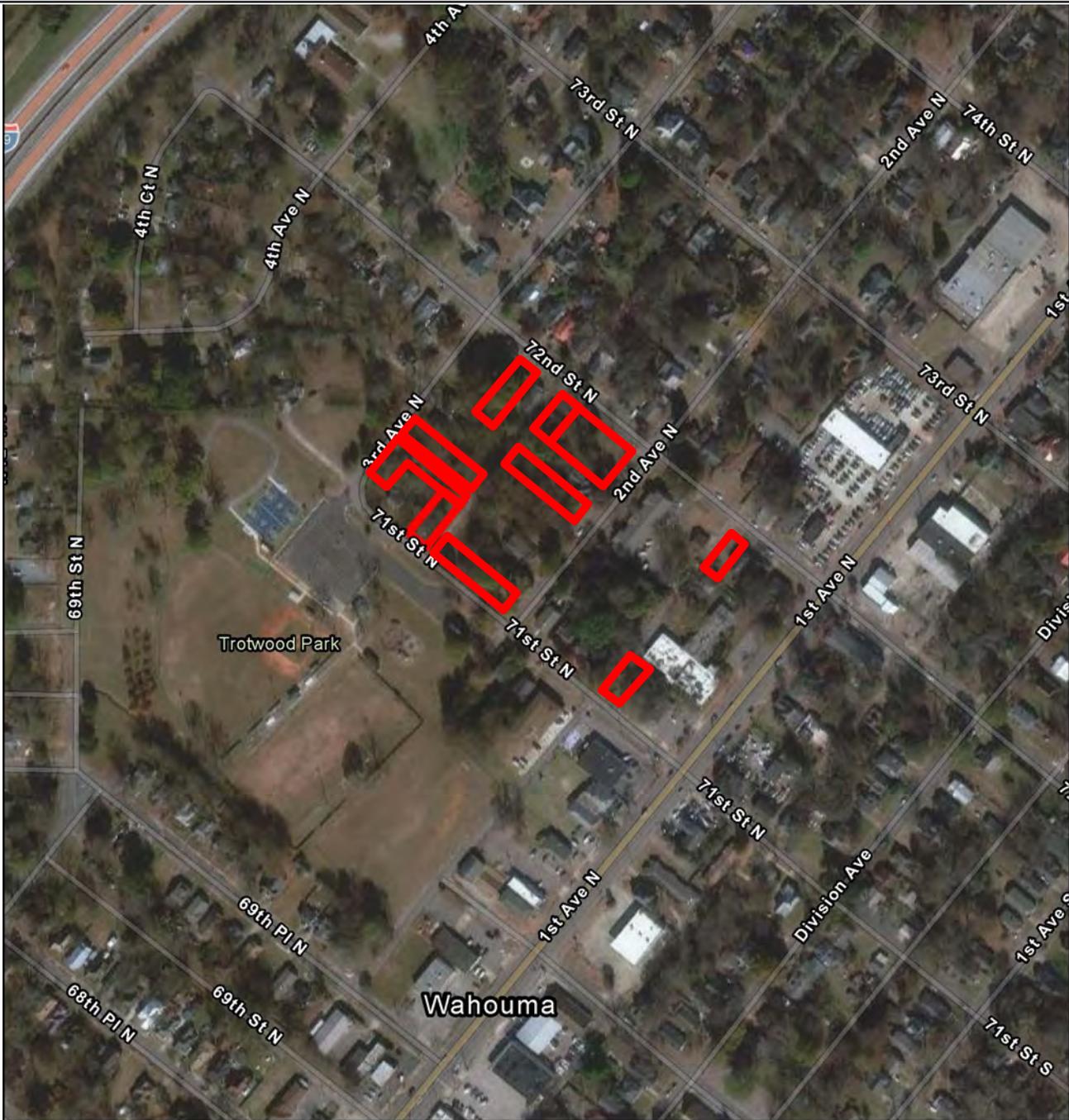
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands\_team@fws.gov, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Source: Image courtesy of NEPAAssist.

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	7/13/2020
Project Mgr.:	File Name:
JC	3357-001-01

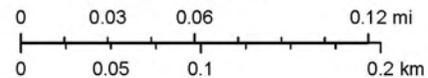
TITLE
<b>Figure 14- Site NWI Map</b> East Lake Scattered Sites Birmingham, AL



July 13, 2020

1:4,514

 Site Location



 Wild and Scenic Rivers

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Source: Image courtesy of NEPAssist.

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	7/13/2020
Project Mgr.:	File Name:
JC	3357-001-01

TITLE
<b>Figure 14 - Wild and Scenic Rivers Map</b> East Lake Scattered Sites Birmingham, AL

APPENDIX B

USER QUESTIONNAIRE

**Spectrum Environmental, Inc.**  
Phase I ESA – User Questionnaire



Name of User: Patricia Powell Contact Phone #: 205-218-9657  
Project Name: Wabromma Contact Email: ppowell@habitatbirmingham.org

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The User should provide the following information to Spectrum along with work authorization. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

<p><b>1. Environmental cleanup lien's that are filed or recorded against the site(40 CFR 312.25)</b> Did a search of recorded land title records (or judicial records where appropriate identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?  (In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.)</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA/Unk</p>
<p><b>2. Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)</b> Did a search of recorded land title records (or judicial records as described above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA/Unk</p>
<p><b>3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)</b> Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA/Unk</p>
<p><b>4. Relationship of purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)</b> (A) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? (B) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?</p>	<p>A) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA B) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p>
<p><b>5. Commonly known or reasonable ascertainable information about the property (40 CFR 312.30)</b> Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example: (A) Do you know the past uses of the property? (B) Do you know of specific chemicals that are present or once were present at the property? (C) Do you know of spills or other chemical releases that have taken place at the property? (D) Do you know of any environmental cleanups that have taken place at the property?</p>	<p>A) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N B) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N C) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N D) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N</p>
<p><b>6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40CFR 312.31).</b> As the User of this PESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA/Unk</p>

Signature: Pat Powell

Date 6-1-2020

APPENDIX C

ENVIRONMENTAL DATABASE REPORT

**Wauhoma Project**

111 71st St N

Birmingham, AL 35206

Inquiry Number: 6065586.2s

May 15, 2020

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

### Disclaimer - Copyright and Trademark Notice

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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 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

111 71ST ST N  
BIRMINGHAM, AL 35206

#### COORDINATES

Latitude (North): 33.5564700 - 33° 33' 23.29"  
Longitude (West): 86.7362560 - 86° 44' 10.52"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 524482.6  
UTM Y (Meters): 3712818.2  
Elevation: 638 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6700710 IRONDALE, AL  
Version Date: 2014  
  
West Map: 6700690 BIRMINGHAM NORTH, AL  
Version Date: 2014

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150805  
Source: USDA

**MAPPED SITES SUMMARY**

Target Property Address:  
 111 71ST ST N  
 BIRMINGHAM, AL 35206

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	HORTON SERVICE STA F	7100 1ST AVE N	EDR Hist Auto	Higher	142, 0.027, SSE
<a href="#">A2</a>	EAST LAKE COIN LAUND	7100 1ST AVE N	EDR Hist Cleaner	Higher	142, 0.027, SSE
<a href="#">3</a>	RODEN TEXACO SERVICE	7200 1ST AVE N	EDR Hist Auto	Higher	172, 0.033, East
<a href="#">A4</a>	ACME CLEANERS	7103 1ST AVE N	EDR Hist Cleaner	Higher	257, 0.049, SE
<a href="#">A5</a>	CROOK PLUMBING INC	7115 1ST AVE N	UST, Financial Assurance	Higher	282, 0.053, SE
<a href="#">A6</a>	EAST LAKE AUTO CLINI	7031 1ST AVE N	EDR Hist Auto	Higher	297, 0.056, SSE
<a href="#">B7</a>	RAYMONDS GARAGE	7007 1ST AVE N	EDR Hist Auto	Higher	523, 0.099, South
<a href="#">B8</a>	ADVANCE AUTO PARTS #	7001 1ST AVENUE NORT	RCRA NonGen / NLR, FINDS, ECHO	Lower	555, 0.105, South
<a href="#">9</a>	SERVICE MASTER BY CR	7302 1ST AVE N	EDR Hist Cleaner	Higher	629, 0.119, ENE
<a href="#">C10</a>	N & OUT	74TH NORTH & 1ST AVE	UST, Financial Assurance	Higher	1052, 0.199, ENE
<a href="#">C11</a>	N & OUT	7400 1ST AVE N	LUST	Higher	1124, 0.213, ENE
<a href="#">12</a>	A1 FOOD MART #3	6820 1ST AVE N	UST, Financial Assurance	Lower	1155, 0.219, SSW
<a href="#">D13</a>	DEAN MCCONNELL AMOCO	7433 1ST AVE N	LUST	Higher	1484, 0.281, ENE
<a href="#">D14</a>	EAST LAKE CHEVRON RA	7509 1ST AVE N	LUST	Higher	1609, 0.305, ENE
<a href="#">15</a>	FORMER REGIONS BANK	7504 FIRST AVENUE NO	LUST	Higher	1680, 0.318, NE
<a href="#">16</a>	AIRPORT INN	7502 5TH AVENUE NORT	US BROWNFIELDS, FINDS	Lower	2098, 0.397, North
<a href="#">17</a>	MCWANE HANGAR	3700 65TH ST N	LUST, UST, Financial Assurance	Lower	2115, 0.401, WNW
<a href="#">18</a>	DRUMMOND CO HANGAR	3800 65TH ST NORTH	LUST, UST, Financial Assurance	Lower	2244, 0.425, WNW
<a href="#">19</a>	EXXON R/S 50900	6601 1ST AVE N/66TH	LUST	Higher	2507, 0.475, SSW
<a href="#">20</a>	BHAM (1ST AVE) DG, L	6512-6520 1ST AVE N	VCP	Higher	2613, 0.495, SSW

# EXECUTIVE SUMMARY

## 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  
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  
SEMS..... Superfund Enterprise Management System

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***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-SQG..... RCRA - Small Quantity Generators  
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

## EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROLS..... Institutional Controls Sites List

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS..... Hazardous Substance Cleanup Fund

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Permitted Landfills

### ***State and tribal leaking storage tank lists***

LAST..... List of AST Release Incidents  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing  
AST..... Aboveground Storage Tank Sites  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

ENG CONTROLS..... Engineering Controls Site Listing  
INST CONTROL..... Land Division Brownfields 128(a) Program Site Listing  
AUL..... Environmental Covenants

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

BROWNFIELDS..... Land Division Brownfields 128(a) Program Site Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

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

SWRCY..... Recycling/Recovered Materials Processors Directory  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory  
IHS OPEN DUMPS..... Open Dumps on Indian Land

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register  
AOC CONCERN..... Area of Concern

## EXECUTIVE SUMMARY

CDL..... Clandestine Methamphetamine Lab Sites  
US CDL..... National Clandestine Laboratory Register  
PFAS..... PFAS Contamination Site Listing

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

HIST UST..... Underground Storage Tank Information

### **Local Land Records**

LIENS 2..... CERCLA Lien Information

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

HMIRS..... Hazardous Materials Information Reporting System  
SPILLS..... Emergency Response Data

### **Other Ascertainable Records**

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
FINDS..... Facility Index System/Facility Registry System  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
UXO..... Unexploded Ordnance Sites  
ECHO..... Enforcement & Compliance History Information

## EXECUTIVE SUMMARY

FUELS PROGRAM.....	EPA Fuels Program Registered Listing
COAL ASH.....	Coal Ash Disposal Sites
DRYCLEANERS.....	Drycleaner Facility Listing
Financial Assurance.....	Financial Assurance Information Listing
NPDES.....	NPDES Permit Listing
TIER 2.....	Tier 2 Data Listing
UIC.....	UIC Listing
MINES MRDS.....	Mineral Resources Data System

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List  
 RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

### 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

#### ***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 Environmental Management's Leaking Underground Storage Tank Listing.

A review of the LUST list, as provided by EDR, and dated 12/02/2019 has revealed that there are 7 LUST sites 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>
N & OUT Facility ID: 10369	7400 1ST AVE N	ENE 1/8 - 1/4 (0.213 mi.)	C11	25
DEAN MCCONNELL AMOCO	7433 1ST AVE N	ENE 1/4 - 1/2 (0.281 mi.)	D13	35

## EXECUTIVE SUMMARY

Facility ID: 12918					
EAST LAKE CHEVRON RA Facility ID: 0	7509 1ST AVE N	ENE 1/4 - 1/2 (0.305 mi.)	D14	35	
FORMER REGIONS BANK Facility ID: 0	7504 FIRST AVENUE NO	NE 1/4 - 1/2 (0.318 mi.)	15	36	
EXXON R/S 50900 Facility ID: 3015	6601 1ST AVE N/66TH	SSW 1/4 - 1/2 (0.475 mi.)	19	54	

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>	
<b>MCWANE HANGAR</b> Facility ID: 12014	<b>3700 65TH ST N</b>	<b>WNW 1/4 - 1/2 (0.401 mi.)</b>	<b>17</b>	<b>39</b>	
<b>DRUMMOND CO HANGAR</b> Facility ID: 2542	<b>3800 65TH ST NORTH</b>	<b>WNW 1/4 - 1/2 (0.425 mi.)</b>	<b>18</b>	<b>46</b>	

### **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 Environmental Management's UST Data with Owner/Site/Tank Information database.

A review of the UST list, as provided by EDR, and dated 11/20/2019 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>	
<b>CROOK PLUMBING INC</b> Facility ID: 17558 73 3541	<b>7115 1ST AVE N</b>	<b>SE 0 - 1/8 (0.053 mi.)</b>	<b>A5</b>	<b>9</b>	
<b>N &amp; OUT</b> Facility ID: 12720 73 10369	<b>74TH NORTH &amp; 1ST AVE</b>	<b>ENE 1/8 - 1/4 (0.199 mi.)</b>	<b>C10</b>	<b>15</b>	

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>	
<b>A1 FOOD MART #3</b> Facility ID: 21838 73 4836	<b>6820 1ST AVE N</b>	<b>SSW 1/8 - 1/4 (0.219 mi.)</b>	<b>12</b>	<b>25</b>	

### **State and tribal voluntary cleanup sites**

VCP: Voluntary Cleanup Program Sites.

A review of the VCP list, as provided by EDR, and dated 07/26/2019 has revealed that there is 1 VCP 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>	
BHAM (1ST AVE) DG, L Site Number: 073-020	6512-6520 1ST AVE N	SSW 1/4 - 1/2 (0.495 mi.)	20	55	

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/02/2019 has revealed that there is 1 US BROWNFIELDS 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>
<b>AIRPORT INN</b> ACRES property ID: 146861 Cleanup Completion Date: -	<b>7502 5TH AVENUE NORT</b>	<b>N 1/4 - 1/2 (0.397 mi.)</b>	<b>16</b>	<b>36</b>

### **Other Ascertainable Records**

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA NonGen / NLR 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>
<b>ADVANCE AUTO PARTS #</b> EPA ID:: ALR000019562	<b>7001 1ST AVENUE NORT</b>	<b>S 0 - 1/8 (0.105 mi.)</b>	<b>B8</b>	<b>13</b>

## EDR HIGH RISK HISTORICAL RECORDS

### **EDR Exclusive Records**

EDR Hist Auto: 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto

## EXECUTIVE SUMMARY

sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HORTON SERVICE STA F	7100 1ST AVE N	SSE 0 - 1/8 (0.027 mi.)	A1	8
RODEN TEXACO SERVICE	7200 1ST AVE N	E 0 - 1/8 (0.033 mi.)	3	8
EAST LAKE AUTO CLINI	7031 1ST AVE N	SSE 0 - 1/8 (0.056 mi.)	A6	12
RAYMONDS GARAGE	7007 1ST AVE N	S 0 - 1/8 (0.099 mi.)	B7	13

EDR Hist Cleaner: 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 3 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EAST LAKE COIN LAUND	7100 1ST AVE N	SSE 0 - 1/8 (0.027 mi.)	A2	8
ACME CLEANERS	7103 1ST AVE N	SE 0 - 1/8 (0.049 mi.)	A4	9
SERVICE MASTER BY CR	7302 1ST AVE N	ENE 0 - 1/8 (0.119 mi.)	9	15

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

<u>Site Name</u>	<u>Database(s)</u>
FORMER WITTICHEN SUPPLY COMPANY, I	AUL, VCP
CSX/COMMERCIAL TRACT TRANSACTION	VCP
EBSCO MEDIA SITE	VCP
OFFICE INDUSTRIAL PARK	VCP
EAST LAKE SERVICE CENTER INC	LUST

# OVERVIEW MAP - 6065586.2S



 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

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 Areas of Concern

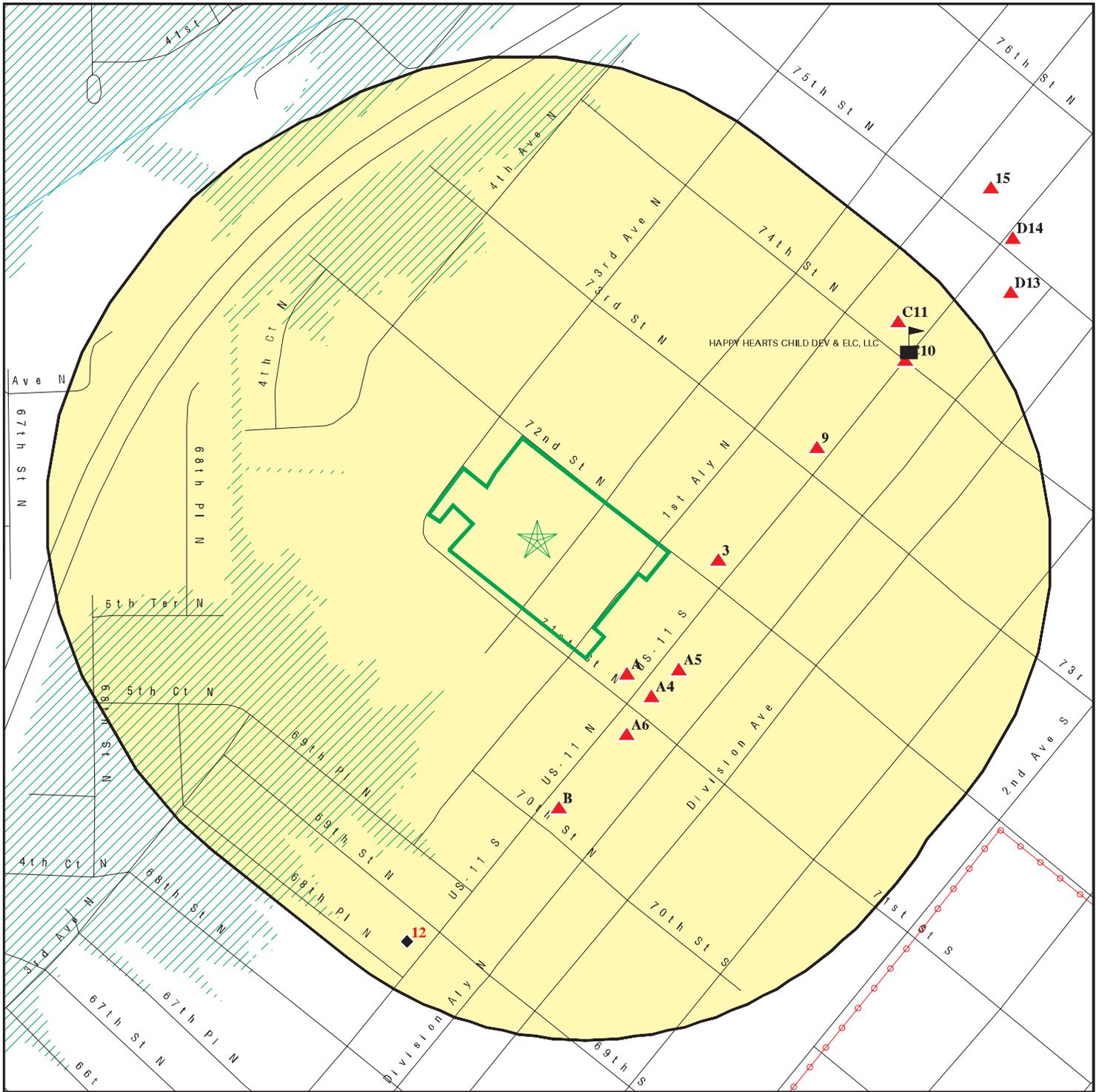


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

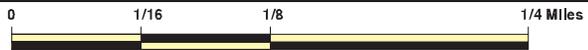
SITE NAME: Wauhoma Project  
 ADDRESS: 111 71st St N  
 Birmingham AL 35206  
 LAT/LONG: 33.55647 / 86.736256

CLIENT: Spectrum Environmental Inc.  
 CONTACT: Audrey Henson  
 INQUIRY #: 6065586.2s  
 DATE: May 15, 2020 12:54 pm

# DETAIL MAP - 6065586.2S



-  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
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  Areas of Concern



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: Wauhoma Project  
 ADDRESS: 111 71st St N  
 Birmingham AL 35206  
 LAT/LONG: 33.55647 / 86.736256

CLIENT: Spectrum Environmental Inc.  
 CONTACT: Audrey Henson  
 INQUIRY #: 6065586.2s  
 DATE: May 15, 2020 12:58 pm

## 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	1.000		0	0	0	0	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>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<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	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<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		0	1	6	NR	NR	7
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	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
UST	0.250		1	2	NR	NR	NR	3
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	1	NR	NR	1
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
HIST UST	0.250		0	0	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1

## 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
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
TIER 2	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		3	NR	NR	NR	NR	3

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	9	3	8	0	0	20

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**MAP FINDINGS**

Map ID Direction Distance Elevation Site Database(s) EDR ID Number EPA ID Number

**A1 HORTON SERVICE STA FILLING STA EDR Hist Auto 1014404418**  
**SSE 7100 1ST AVE N N/A**  
 < 1/8 BIRMINGHAM, AL  
 0.027 mi.  
 142 ft. Site 1 of 5 in cluster A

Relative: EDR Hist Auto  
**Higher**

Actual: Year: Name: Type:  
 642 ft. 1930 SEVENTY FIRST ST SERVICE STA GASOLINE AND OIL SERVICE STATIONS  
 1935 SEVENTY FIRST ST SERVICE STA GASOLINE AND OIL SERVICE STATIONS  
 1940 HORTON SERVICE STA FILLING STA GASOLINE AND OIL SERVICE STATIONS

**A2 EAST LAKE COIN LAUNDRY EDR Hist Cleaner 1014407835**  
**SSE 7100 1ST AVE N N/A**  
 < 1/8 BIRMINGHAM, AL 35206  
 0.027 mi.  
 142 ft. Site 2 of 5 in cluster A

Relative: EDR Hist Cleaner  
**Higher**

Actual: Year: Name: Type:  
 642 ft. 1952 ACME CLNS CLEANERS AND DYERS  
 1956 ACME CLNS CLEANERS AND DYERS  
 1976 NORGE COIN OPERATED LAUNDRY SEL LAUNDRIES-SELF SERVE  
 1981 NORGE COIN OPERATED LAUNDRY LAUNDRIES-SELF SERVE  
 1991 EAST LAKE COIN LAUNDRY LAUNDRIES-SELF SERVE  
 1996 EAST LAKE COIN LAUNDRY LAUNDRIES-SELF SERVICE

**3 RODEN TEXACO SERVICE EDR Hist Auto 1014406410**  
**East 7200 1ST AVE N N/A**  
 < 1/8 BIRMINGHAM, AL 35206  
 0.033 mi.  
 172 ft.

Relative: EDR Hist Auto  
**Higher**

Actual: Year: Name: Type:  
 644 ft. 1952 HANKINS JOLMNNY SERV STA FILL S GASOLINE STATIONS  
 1956 WOODARD ROY SERV STA GASOLINE SERVICE STATIONS  
 1961 HARBISON A J TEXACO SERV STA GASOLINE STATIONS  
 1967 RODEN TEXACO SERVICE GASOLINE STATIONS  
 1991 BYRDS TIRE & AUTOMOTIVE SERVICE AUTOMOBILE REPAIRING & SERVICE  
 1994 BYRDS TIRE & AUTOMOTIVE General Automotive Repair Shops  
 1995 BYRDS TIRE & AUTOMOTIVE General Automotive Repair Shops  
 1996 BYRDS TIRE AUTOMOBILE REPAIRING & SERVICE  
 1996 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 1997 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 1998 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 1999 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 2000 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 2001 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 2002 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops  
 2003 BYRDS TIRE & AUTOMOTIVE SALES General Automotive Repair Shops

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

<b>A4</b> <b>SE</b> < 1/8 0.049 mi. 257 ft.	<b>ACME CLEANERS</b> 7103 1ST AVE N BIRMINGHAM, AL Site 3 of 5 in cluster A	<b>EDR Hist Cleaner</b>	1014409234 N/A
<b>Relative:</b> EDR Hist Cleaner <b>Higher</b>			
<b>Actual:</b> Year: Name: Type: 642 ft. 1946 ACME CLEANERS CLOTHES PRESSERS AND CLEANERS			

<b>A5</b> <b>SE</b> < 1/8 0.053 mi. 282 ft.	<b>CROOK PLUMBING INC</b> 7115 1ST AVE N BIRMINGHAM, AL 35206 Site 4 of 5 in cluster A	<b>UST</b> <b>Financial Assurance</b>	U000002839 N/A
<b>Relative:</b> UST: <b>Higher</b>			
<b>Actual:</b> Name: CROOK PLUMBING INC 643 ft. Address: 7115 1ST AVE N City,State,Zip: BIRMINGHAM, AL 35206 Facility ID: 17558 73 3541 Account Number: 17558 Site ID Number: 3541 Contact Name: CHARLES ROY MCCAY Contact Phone: 2058332288 Exempt: Not reported Located Within Indian Lands: Not reported GPS Latitude: 33.555255 GPS Longitude: -86.734688 Located Wellhead Protection: Not reported Cannot Locate Site: Not reported Abandoned Site: X Residence Adjacent: X Residence Within 300 ft: Not reported Under Dispersion Containment: Not reported UDC Insp. Date: Not reported UDC Insp. Results: Not reported Date Last Inspected: 2015-06-19 00:00:00			
<b>UST:</b> Account number: 17558 Site ID: 3541 Facility ID: 17558 73 3541 Last Usage Date: 1989-09-01 Install Date: 1977-01-01 Capacity: 900 Compartments: 1 Unleaded Gas: X Midgrade Gas: Not reported Premium Gas: Not reported Diesel: Not reported Kerosene: Not reported Aviation Fuel: Not reported Used Oil: Not reported Virgin Oil: Not reported Local Government: Not reported State and Federal: Not reported Steel: X Fiberglass and Plastic: Not reported			

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CROOK PLUMBING INC (Continued)**

**U000002839**

Cathodic Protection:	Not reported
Field Installed Cathodic:	Not reported
Interior Lined:	Not reported
Three Year CP Test Date:	Not reported
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	Not reported
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	X
Gravity P:	Not reported
Unique Tank Number:	8649
Cannot Locate:	X
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	Not reported
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	Not reported
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	1
Current A1:	Not reported
Temporary A2:	Not reported
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	Not reported
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	Not reported
Farm Residential F7:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CROOK PLUMBING INC (Continued)**

**U000002839**

Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	Not reported
Other Pipe I4:	Not reported
Three Year CP Review J:	Not reported
Other External Prot Pipe J3:	Not reported
Test Date K:	2001-01-01 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	Not reported
Tight Test Date 13:	Not reported
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	Not reported

UST:

Account number:	17558
Owner Name:	JOSEPH VINSON JR
Owner Address:	7121 1ST AVE N
Owner City:	BIRMINGHAM
Owner State:	AL
Owner Zip:	35206
Owner Zip 2:	Not reported
Owner Telephone:	2058338748
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	JOSEPH VINSON
Owner Contact Telephone:	2058338748
Exempt:	Not reported

AL Financial Assurance:

Name:	CROOK PLUMBING INC
Address:	7115 1ST AVE N
City,State,Zip:	BIRMINGHAM, AL 35206
Account Number:	17558
Site ID Number:	3541
Facility Contact:	CHARLES ROY MCCAY
Facility Contact Phone:	2058332288
Tank Number:	1
Compliance AUST 18 R1:	Not reported
Net Worth 25000 18 R1A:	Not reported
Surety 18 R1B:	Not reported
Private Insurance 18 R2A:	Not reported
Insurer 18 R2A:	Not reported
Policy Number 18 R2A:	Not reported
Guarantee 18 2RB:	Not reported
Self Insured 18 R2C:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A6**  
**SSE**  
 < 1/8  
 0.056 mi.  
 297 ft.

**EAST LAKE AUTO CLINIC**  
**7031 1ST AVE N**  
**BIRMINGHAM, AL 35206**

**EDR Hist Auto**    **1014405248**  
 N/A

**Relative:**    EDR Hist Auto  
**Higher**

**Actual:**  
**641 ft.**

Year:	Name:	Type:
1940	SELBY SERVICE STA FILLING STA	GASOLINE AND OIL SERVICE STATIONS
1952	BRITS SERV STA FILL STA	GASOLINE STATIONS
1956	SEVENTY FIRST ST SERV STA	GASOLINE SERVICE STATIONS
1961	SEVENTH FIRST ST SERV STA	GASOLINE STATIONS
1967	CARNS GULF SERVICE	GASOLINE STATIONS
1969	CARNS GULF SERVICE STATION	Gasoline Service Stations
1970	CARNS GULF SERVICE STATION	Gasoline Service Stations
1971	CAMRNS GULF SERVICE STATION	GASOLINE STATIONS
1971	CARNS GULF SERVICE STATION	Gasoline Service Stations
1972	CARNS GULF SERVICE STATION	Gasoline Service Stations
1973	CARNS GULF SERVICE STATION	Gasoline Service Stations
1974	CARNS GULF SERVICE STATION	Gasoline Service Stations
1974	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1975	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1975	CARNS GULF SERVICE STATION	Gasoline Service Stations
1976	EAST LAKE AUTO CLINIC AUTO REPR	AUTOMOBILE REPAIRING
1976	CARNS GULF SERVICE STATION	Gasoline Service Stations
1976	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1977	CARNS GULF SERVICE STATION	Gasoline Service Stations
1977	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1978	CARNS GULF SERVICE STATION	Gasoline Service Stations
1978	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1979	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1979	CARNS GULF SERVICE STATION	Gasoline Service Stations
1980	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1980	CARNS GULF SERVICE STATION	Gasoline Service Stations
1981	EAST LAKE AUTO CLINIC	AUTOMOBILE REPAIRING
1982	CARNS GULF SERVICE STATION	Gasoline Service Stations
1982	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1983	CARNS GULF SERVICE STATION	Gasoline Service Stations
1983	EAST LAKE AUTO CLINIC	General Automotive Repair Shops
1985	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1986	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1987	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1988	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1989	EASTLAKE AUTO CLNIC SLS NOT IN	General Automotive Repair Shops
1990	EASTLAKE AUTO CLNIC SLS NOT IN	General Automotive Repair Shops
1991	EAST LAKE AUTO CLINIC	AUTOMOBILE REPAIRING & SERVICE
1991	EASTLAKE AUTO CLNIC SLS NOT IN	General Automotive Repair Shops
1992	EASTLAKE AUTO CLNIC SLS NOT IN	General Automotive Repair Shops
1993	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1994	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1995	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1996	EAST LAKE AUTO CLINIC	AUTOMOBILE REPAIRING & SERVICE
1996	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1997	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1998	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
1999	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2000	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2001	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EAST LAKE AUTO CLINIC (Continued)**

**1014405248**

2002	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2003	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2004	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2005	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2006	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2007	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2008	EAST LAKE AUTO CLINIC AUTO RPR	AUTOMOBILE REPAIRING & SERVICE
2008	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2009	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2010	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2011	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2012	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2013	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops
2014	EASTLAKE AUTO CLINIC & SALES	General Automotive Repair Shops

**B7**  
 South  
 < 1/8  
 0.099 mi.  
 523 ft.

**RAYMONDS GARAGE**  
**7007 1ST AVE N**  
**BIRMINGHAM, AL 35206**

**EDR Hist Auto**    **1014403322**  
**N/A**

**Site 1 of 2 in cluster B**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**638 ft.**

Year:	Name:	Type:
1971	DOCTORS TRANSMISSION AUTO REPRS	AUTOMOBILE REPAIRING
1976	RAYMONDS GARAGE	AUTOMOBILE REPAIRING
1981	MAYS AUTO SERVICE	AUTOMOBILE REPAIRING

**B8**  
 South  
 < 1/8  
 0.105 mi.  
 555 ft.

**ADVANCE AUTO PARTS #9290**  
**7001 1ST AVENUE NORTH**  
**BIRMINGHAM, AL 35206**

**RCRA NonGen / NLR**    **1004672256**  
**FINDS**    **ALR000019562**  
**ECHO**

**Site 2 of 2 in cluster B**

**Relative:**  
**Lower**

RCRA NonGen / NLR:

Date form received by agency: 2004-07-22 00:00:00.0  
 Facility name: ADVANCE AUTO PARTS #9290  
 Facility address: 7001 1ST AVENUE NORTH  
 BIRMINGHAM, AL 35206  
 EPA ID: ALR000019562  
 Mailing address: PO BOX 2710  
 ROANOKE, VA 24001  
 Contact: REGINA HINES  
 Contact address: PO BOX 2710  
 ROANOKE, VA 24001  
 Contact country: US  
 Contact telephone: 540-561-8343  
 Contact email: RHINES@ADVANCEAUTO.COM  
 EPA Region: 04  
 Land type: Private  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ADVANCE AUTO PARTS  
 Owner/operator address: PO BOX 2710

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ADVANCE AUTO PARTS #9290 (Continued)**

**1004672256**

ROANOKE, VA 24001  
Owner/operator country: Not reported  
Owner/operator telephone: 540-561-8343  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 1776-01-01 00:00:00.  
Owner/Op end date: Not reported

Owner/operator name: ADVANCE AUTO PARTS  
Owner/operator address: P O BOX 2710  
ROANOKE, VA 24001

Owner/operator country: US  
Owner/operator telephone: 540-561-8343  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 2002-08-19 00:00:00.  
Owner/Op end date: Not reported

Owner/operator name: ADVANCE AUTO PARTS  
Owner/operator address: P O BOX 2710  
ROANOKE, VA 24001

Owner/operator country: US  
Owner/operator telephone: 540-561-8343  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 2002-08-19 00:00:00.  
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  
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: 2002-11-06 00:00:00.0

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ADVANCE AUTO PARTS #9290 (Continued)**

**1004672256**

Site name: ADVANCE AUTO PARTS #9290  
 Classification: Not a generator, verified

Date form received by agency: 2001-10-15 00:00:00.0  
 Site name: ADVANCE AUTO PARTS #9290  
 Classification: Not a generator, verified

Violation Status: No violations found

**FINDS:**

Registry ID: 110012247283  
 Facility URL: [http://ofmpub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_registry\\_id=110012247283](http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110012247283)

**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.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1004672256  
 Registry ID: 110012247283  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110012247283>  
 Name: ADVANCE AUTO PARTS #9290  
 Address: 7001 1ST AVENUE NORTH  
 City,State,Zip: BIRMINGHAM, AL 35206

**9**  
**ENE**  
 < 1/8  
 0.119 mi.  
 629 ft.

**SERVICE MASTER BY CROOKSHANK WATER & FIRE DAMAGE C**  
**7302 1ST AVE N**  
**BIRMINGHAM, AL 35206**

**EDR Hist Cleaner**    **1014408592**  
**N/A**

**Relative:**  
**Higher**

EDR Hist Cleaner

**Actual:**  
**646 ft.**

Year: Name: Type:  
 1991 SERVICE MASTER BY CROOKSHANK WA CARPET AND RUG CLEANERS

**C10**  
**ENE**  
 1/8-1/4  
 0.199 mi.  
 1052 ft.

**N & OUT**  
**74TH NORTH & 1ST AVENUE**  
**BIRMINGHAM, AL 35222**

**UST**    **U004233145**  
**Financial Assurance**    **N/A**

**Site 1 of 2 in cluster C**

**Relative:**  
**Higher**  
**Actual:**  
**641 ft.**

UST:  
 Name: N & OUT  
 Address: 74TH NORTH & 1ST AVENUE  
 City,State,Zip: BIRMINGHAM, AL 35222  
 Facility ID: 12720 73 10369  
 Account Number: 12720  
 Site ID Number: 10369  
 Contact Name: JOE BOGGAN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Contact Phone: 2058336388  
Exempt: Not reported  
Located Within Indian Lands: Not reported  
GPS Latitude: 33.558492  
GPS Longitude: -86.732192  
Located Wellhead Protection: Not reported  
Cannot Locate Site: Not reported  
Abandoned Site: Not reported  
Residence Adjacent: Not reported  
Residence Within 300 ft: Not reported  
Under Dispersion Containment: Not reported  
UDC Insp. Date: Not reported  
UDC Insp. Results: Not reported  
Date Last Inspected: 1991-10-31 00:00:00

**UST:**

Account number: 12720  
Site ID: 10369  
Facility ID: 12720 73 10369  
Last Usage Date: 1992-02-19  
Install Date: 1953-01-01  
Capacity: 3000  
Compartments: 1  
Unleaded Gas: X  
Midgrade Gas: Not reported  
Premium Gas: Not reported  
Diesel: Not reported  
Kerosene: Not reported  
Aviation Fuel: Not reported  
Used Oil: Not reported  
Virgin Oil: Not reported  
Local Government: Not reported  
State and Federal: Not reported  
Steel: X  
Fiberglass and Plastic: Not reported  
Cathodic Protection: Not reported  
Field Installed Cathodic: Not reported  
Interior Lined: Not reported  
Three Year CP Test Date: Not reported  
Bare Steel: X  
Fiberglass/Plastic: Not reported  
Flexible: Not reported  
Three Year CP Test Date: Not reported  
Catchment Basin: Not reported  
Flow Restrictor: Not reported  
Auto Shutoff: Not reported  
Alarm: Not reported  
ATG: Not reported  
Continuous ATG: Not reported  
Secondary: Not reported  
Vapor: Not reported  
Groundwater: Not reported  
Statistical Inv Reconciled: Not reported  
Annual Test Date: Not reported  
Annual Line Test: Not reported  
Auto Ele Line Leak Detect: Not reported  
Line Tight Test Date: Not reported  
Vapor Monitoring: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Sir 15: Not reported  
Interstitial W2 Cont: Not reported  
Line Tight 3 Years Test Date: Not reported  
Check Value: Not reported  
Gravity P: Not reported  
Unique Tank Number: 17656  
Cannot Locate: Not reported  
Year of Last Sir Report: Not reported  
Tank Contains Gasohol ( 85% Ethanol): Not reported  
Tank Contains Biodiesel: Not reported  
Number Manifolds: 0  
Single Walled Tank: Not reported  
Double Walled Tank: Not reported  
Steel Tank Coated W/ Fiberglass: Not reported  
Single Walled Piping: Not reported  
Double Walled Piping: Not reported  
Submersible Pump Sump Inspection Date: 2001-01-01  
Tank Number: 1  
Current A1: Not reported  
Temporary A2: Not reported  
Retired: Not reported  
Permanent A3: X  
Removal Date 3: 1994-05-03 00:00:00  
Inert: Not reported  
Inert Date 3: Not reported  
Closed Without Assessment: Not reported  
Within Distance of Well 1: Not reported  
Other Petro E1L: Not reported  
Cercla Substance Name E2A: Not reported  
Cas Number E2B: Not reported  
Retail Tank F2: Not reported  
Bulk Facility Tank F3: Not reported  
Industrial Tank F4: Not reported  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: Not reported  
Other Pipe I4: Not reported  
Three Year CP Review J: Not reported  
Other External Prot Pipe J3: Not reported  
Test Date K: 2001-01-01 00:00:00  
T Test 13 M3: Not reported  
TT Test Reviewed: Not reported  
Tight Test Date 13: Not reported  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: Not reported  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: Not reported

**UST:**

Account number: 12720  
Owner Name: JEROME TUCKER II & JEROME TUCKER III  
Owner Address: 4241 OVERLOOK DR  
Owner City: BIRMINGHAM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Owner State:	AL
Owner Zip:	35222
Owner Zip 2:	Not reported
Owner Telephone:	2055912830
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	JOE BOGGAN
Owner Contact Telephone:	2058336388
Exempt:	Not reported
Account number:	12720
Site ID:	10369
Facility ID:	12720 73 10369
Last Usage Date:	1992-02-19
Install Date:	1953-01-01
Capacity:	3000
Compartments:	1
Unleaded Gas:	X
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	Not reported
Interior Lined:	Not reported
Three Year CP Test Date:	Not reported
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	Not reported
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Gravity P:	Not reported
Unique Tank Number:	17657
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	Not reported
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	Not reported
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	2
Current A1:	Not reported
Temporary A2:	Not reported
Retired:	Not reported
Permanent A3:	X
Removal Date 3:	1994-05-03 00:00:00
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	Not reported
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	Not reported
Farm Residential F7:	Not reported
Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	Not reported
Other Pipe I4:	Not reported
Three Year CP Review J:	Not reported
Other External Prot Pipe J3:	Not reported
Test Date K:	2001-01-01 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	Not reported
Tight Test Date 13:	Not reported
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 O7:	Not reported
Tank Comments:	Not reported
<b>UST:</b>	
Account number:	12720
Owner Name:	JEROME TUCKER II & JEROME TUCKER III
Owner Address:	4241 OVERLOOK DR
Owner City:	BIRMINGHAM
Owner State:	AL
Owner Zip:	35222
Owner Zip 2:	Not reported
Owner Telephone:	2055912830

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	JOE BOGGAN
Owner Contact Telephone:	2058336388
Exempt:	Not reported
Account number:	12720
Site ID:	10369
Facility ID:	12720 73 10369
Last Usage Date:	1992-02-19
Install Date:	1953-01-01
Capacity:	3000
Compartments:	1
Unleaded Gas:	X
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	Not reported
Interior Lined:	Not reported
Three Year CP Test Date:	Not reported
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	Not reported
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	17658
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Tank Contains Gasohol ( 85% Ethanol): Not reported  
Tank Contains Biodiesel: Not reported  
Number Manifolds: 0  
Single Walled Tank: Not reported  
Double Walled Tank: Not reported  
Steel Tank Coated W/ Fiberglass: Not reported  
Single Walled Piping: Not reported  
Double Walled Piping: Not reported  
Submersible Pump Sump Inspection Date: 2001-01-01  
Tank Number: 3  
Current A1: Not reported  
Temporary A2: Not reported  
Retired: Not reported  
Permanent A3: X  
Removal Date 3: 1994-05-03 00:00:00  
Inert: Not reported  
Inert Date 3: Not reported  
Closed Without Assessment: Not reported  
Within Distance of Well 1: Not reported  
Other Petro E1L: Not reported  
Cercla Substance Name E2A: Not reported  
Cas Number E2B: Not reported  
Retail Tank F2: Not reported  
Bulk Facility Tank F3: Not reported  
Industrial Tank F4: Not reported  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: Not reported  
Other Pipe I4: Not reported  
Three Year CP Review J: Not reported  
Other External Prot Pipe J3: Not reported  
Test Date K: 2001-01-01 00:00:00  
T Test 13 M3: Not reported  
TT Test Reviewed: Not reported  
Tight Test Date 13: Not reported  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: Not reported  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: Not reported

**UST:**

Account number: 12720  
Owner Name: JEROME TUCKER II & JEROME TUCKER III  
Owner Address: 4241 OVERLOOK DR  
Owner City: BIRMINGHAM  
Owner State: AL  
Owner Zip: 35222  
Owner Zip 2: Not reported  
Owner Telephone: 2055912830  
Owner Type 2: P  
GSA ID: Not reported  
Owner Contact Name: JOE BOGGAN  
Owner Contact Telephone: 2058336388

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Exempt:	Not reported
Account number:	12720
Site ID:	10369
Facility ID:	12720 73 10369
Last Usage Date:	1992-02-19
Install Date:	1953-01-01
Capacity:	550
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	X
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	Not reported
Interior Lined:	Not reported
Three Year CP Test Date:	Not reported
Bare Steel:	Not reported
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	Not reported
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	X
Unique Tank Number:	17659
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

Double Walled Tank: Not reported  
Steel Tank Coated W/ Fiberglass: Not reported  
Single Walled Piping: Not reported  
Double Walled Piping: Not reported  
Submersible Pump Sump Inspection Date: 2001-01-01  
Tank Number: 4  
Current A1: Not reported  
Temporary A2: Not reported  
Retired: Not reported  
Permanent A3: X  
Removal Date 3: 1994-05-03 00:00:00  
Inert: Not reported  
Inert Date 3: Not reported  
Closed Without Assessment: Not reported  
Within Distance of Well 1: Not reported  
Other Petro E1L: Not reported  
Cercla Substance Name E2A: Not reported  
Cas Number E2B: Not reported  
Retail Tank F2: Not reported  
Bulk Facility Tank F3: Not reported  
Industrial Tank F4: Not reported  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: Not reported  
Other Pipe I4: Not reported  
Three Year CP Review J: Not reported  
Other External Prot Pipe J3: Not reported  
Test Date K: 2001-01-01 00:00:00  
T Test 13 M3: Not reported  
TT Test Reviewed: Not reported  
Tight Test Date 13: Not reported  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: Not reported  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: Not reported

**UST:**

Account number: 12720  
Owner Name: JEROME TUCKER II & JEROME TUCKER III  
Owner Address: 4241 OVERLOOK DR  
Owner City: BIRMINGHAM  
Owner State: AL  
Owner Zip: 35222  
Owner Zip 2: Not reported  
Owner Telephone: 2055912830  
Owner Type 2: P  
GSA ID: Not reported  
Owner Contact Name: JOE BOGGAN  
Owner Contact Telephone: 2058336388  
Exempt: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**N & OUT (Continued)**

**U004233145**

AL Financial Assurance:

Name: N & OUT  
Address: 74TH NORTH & 1ST AVENUE  
City,State,Zip: BIRMINGHAM, AL 35222  
Account Number: 12720  
Site ID Number: 10369  
Facility Contact: JOE BOGGAN  
Facility Contact Phone: 2058336388  
Tank Number: 1  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: N & OUT  
Address: 74TH NORTH & 1ST AVENUE  
City,State,Zip: BIRMINGHAM, AL 35222  
Account Number: 12720  
Site ID Number: 10369  
Facility Contact: JOE BOGGAN  
Facility Contact Phone: 2058336388  
Tank Number: 4  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: N & OUT  
Address: 74TH NORTH & 1ST AVENUE  
City,State,Zip: BIRMINGHAM, AL 35222  
Account Number: 12720  
Site ID Number: 10369  
Facility Contact: JOE BOGGAN  
Facility Contact Phone: 2058336388  
Tank Number: 2  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: N & OUT  
Address: 74TH NORTH & 1ST AVENUE  
City,State,Zip: BIRMINGHAM, AL 35222  
Account Number: 12720  
Site ID Number: 10369

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**N & OUT (Continued)**

**U004233145**

Facility Contact: JOE BOGGAN  
 Facility Contact Phone: 2058336388  
 Tank Number: 3  
 Compliance AUST 18 R1: Not reported  
 Net Worth 25000 18 R1A: Not reported  
 Surety 18 R1B: Not reported  
 Private Insurance 18 R2A: Not reported  
 Insurer 18 R2A: Not reported  
 Policy Number 18 R2A: Not reported  
 Guarantee 18 2RB: Not reported  
 Self Insured 18 R2C: Not reported

**C11  
 ENE  
 1/8-1/4  
 0.213 mi.  
 1124 ft.**

**N & OUT  
 7400 1ST AVE N  
 BIRMINGHAM, AL  
 Site 2 of 2 in cluster C**

**LUST U001861520  
 N/A**

**Relative:  
 Higher  
 Actual:  
 641 ft.**

**LUST:**  
 Name: N & OUT  
 Address: 7400 1ST AVE N  
 City,State,Zip: BIRMINGHAM, AL  
 Facility ID: 10369  
 Account Number: 12720  
 Incident Number: 10  
 Searchable Incident Number: UST970510  
 Cleanup Complete: Not reported  
 Owner Name: JEROME TUCKER II & JEROME TUCKER III  
 Owner Address: 4241 OVERLOOK DR  
 Owner City,St,Zip: BIRMINGHAM, AL 35222  
 Incident Month/Yr: 05/97  
 Latitude: 33.558492  
 Longitude: -86.732192

**12  
 SSW  
 1/8-1/4  
 0.219 mi.  
 1155 ft.**

**A1 FOOD MART #3  
 6820 1ST AVE N  
 BIRMINGHAM, AL 35206**

**UST U001718733  
 Financial Assurance N/A**

**Relative:  
 Lower  
 Actual:  
 633 ft.**

**UST:**  
 Name: A1 FOOD MART #3  
 Address: 6820 1ST AVE N  
 City,State,Zip: BIRMINGHAM, AL 35206  
 Facility ID: 21838 73 4836  
 Account Number: 21838  
 Site ID Number: 4836  
 Contact Name: TAREQ MUTHANA  
 Contact Phone: 2055865696  
 Exempt: Not reported  
 Located Within Indian Lands: Not reported  
 GPS Latitude: 33.552694  
 GPS Longitude: -86.737955  
 Located Wellhead Protection: Not reported  
 Cannot Locate Site: Not reported  
 Abandoned Site: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Residence Adjacent:	Not reported
Residence Within 300 ft:	Not reported
Under Dispersion Containment:	Not reported
UDC Insp. Date:	Not reported
UDC Insp. Results:	Not reported
Date Last Inspected:	2019-04-24 00:00:00
UST:	
Account number:	21838
Site ID:	4836
Facility ID:	21838 73 4836
Last Usage Date:	2015-06-01
Install Date:	1982-01-01
Capacity:	4000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	X
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	X
Interior Lined:	X
Three Year CP Test Date:	2018-10-04
Bare Steel:	Not reported
Fiberglass/Plastic:	X
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	X
Flow Restrictor:	X
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	X
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	2015-09-15
Annual Line Test:	X
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	2015-09-15
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	29457
Cannot Locate:	Not reported
Year of Last Sir Report:	2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	1
Current A1:	Not reported
Temporary A2:	X
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	X
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	Not reported
Farm Residential F7:	Not reported
Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	P
Other Pipe I4:	Not reported
Three Year CP Review J:	Not reported
Other External Prot Pipe J3:	FLXS ISOLA
Test Date K:	2015-09-15 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	P
Tight Test Date 13:	2012-04-20 00:00:00
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	SUPPLIER: STAGE1: 3 TANKS,2 COAXIALS, AND VENTS IN BACK OF BLDG ATG TLS350 4 CSLD - 3 LINE LD (REG, REG AND PREM)_AND 1 SAFE SUCTION (KEROSENE NO SUMPS - 2 DISPENSERS W NO PANS LYNETTE PETERS IS THE CONTACT/ACCOUNTTANT 205-563-2075 LYNETTE_PETERS@YAHOO.COM THE DIESEL LINE IS A PRESSURIZED LINE NOT A SUCTION LINE AS IT APPEARS TO BE. THE SUBMERGED PUMP IS INSIDE THE BUILDING AND MUST BE ACCESSED INSIDE THE BUILDING

UST:

Account number:	21838
Owner Name:	IA CORPORATION
Owner Address:	2707 GLENROSE HILL
Owner City:	ATLANTA
Owner State:	GA
Owner Zip:	30341

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Owner Zip 2:	Not reported
Owner Telephone:	2055864591
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	ALEX KHAN
Owner Contact Telephone:	2055864591
Exempt:	Not reported
Account number:	21838
Site ID:	4836
Facility ID:	21838 73 4836
Last Usage Date:	2019-01-04
Install Date:	1982-01-01
Capacity:	4000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	X
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	X
Interior Lined:	X
Three Year CP Test Date:	2018-10-04
Bare Steel:	Not reported
Fiberglass/Plastic:	X
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	X
Flow Restrictor:	X
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	X
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	X
Gravity P:	Not reported
Unique Tank Number:	29458

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Cannot Locate: Not reported  
Year of Last Sir Report: 2003  
Tank Contains Gasohol ( 85% Ethanol): Not reported  
Tank Contains Biodiesel: Not reported  
Number Manifolds: 0  
Single Walled Tank: X  
Double Walled Tank: Not reported  
Steel Tank Coated W/ Fiberglass: Not reported  
Single Walled Piping: X  
Double Walled Piping: Not reported  
Submersible Pump Sump Inspection Date: 2001-01-01  
Tank Number: 2  
Current A1: Not reported  
Temporary A2: X  
Retired: Not reported  
Permanent A3: Not reported  
Removal Date 3: Not reported  
Inert: Not reported  
Inert Date 3: Not reported  
Closed Without Assessment: Not reported  
Within Distance of Well 1: Not reported  
Other Petro E1L: Not reported  
Cercla Substance Name E2A: Not reported  
Cas Number E2B: Not reported  
Retail Tank F2: X  
Bulk Facility Tank F3: Not reported  
Industrial Tank F4: Not reported  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: P  
Other Pipe I4: Not reported  
Three Year CP Review J: Not reported  
Other External Prot Pipe J3: FLXS ISOLA  
Test Date K: 2015-09-15 00:00:00  
T Test 13 M3: Not reported  
TT Test Reviewed: P  
Tight Test Date 13: 2012-04-20 00:00:00  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: Not reported  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: Not reported

UST:

Account number: 21838  
Owner Name: IA CORPORATION  
Owner Address: 2707 GLENROSE HILL  
Owner City: ATLANTA  
Owner State: GA  
Owner Zip: 30341  
Owner Zip 2: Not reported  
Owner Telephone: 2055864591  
Owner Type 2: P  
GSA ID: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Owner Contact Name:	ALEX KHAN
Owner Contact Telephone:	2055864591
Exempt:	Not reported
Account number:	21838
Site ID:	4836
Facility ID:	21838 73 4836
Last Usage Date:	2019-01-04
Install Date:	1984-12-01
Capacity:	16000
Compartments:	0
Unleaded Gas:	X
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	X
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2018-10-04
Bare Steel:	Not reported
Fiberglass/Plastic:	X
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	X
Flow Restrictor:	X
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	X
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	2017-03-28
Annual Line Test:	X
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	2017-03-28
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	29459
Cannot Locate:	Not reported
Year of Last Sir Report:	2003
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Number Manifolds:	2
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	3
Current A1:	Not reported
Temporary A2:	X
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	X
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	Not reported
Farm Residential F7:	Not reported
Other Material G3:	8K/8K
Other Extern H6:	Not reported
Three Year CP Review H:	P
Other Pipe I4:	Not reported
Three Year CP Review J:	Not reported
Other External Prot Pipe J3:	FLXS ISOLA
Test Date K:	2015-09-15 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	P
Tight Test Date 13:	2012-04-20 00:00:00
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	CLASSA/B: ALEX KHAN - OWNER LESSEE- SUNIL JOSHI

UST:

Account number:	21838
Owner Name:	IA CORPORATION
Owner Address:	2707 GLENROSE HILL
Owner City:	ATLANTA
Owner State:	GA
Owner Zip:	30341
Owner Zip 2:	Not reported
Owner Telephone:	2055864591
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	ALEX KHAN
Owner Contact Telephone:	2055864591
Exempt:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Account number:	21838
Site ID:	4836
Facility ID:	21838 73 4836
Last Usage Date:	2019-01-04
Install Date:	1984-12-01
Capacity:	6000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	X
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	X
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2018-10-04
Bare Steel:	Not reported
Fiberglass/Plastic:	X
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	X
Flow Restrictor:	X
Auto Shutoff:	Not reported
Alarm:	Not reported
ATG:	X
Continuous ATG:	Not reported
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	2017-03-28
Annual Line Test:	X
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	2017-03-28
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	29461
Cannot Locate:	Not reported
Year of Last Sir Report:	2003
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	5
Current A1:	Not reported
Temporary A2:	X
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	X
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	Not reported
Farm Residential F7:	Not reported
Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	P
Other Pipe I4:	Not reported
Three Year CP Review J:	Not reported
Other External Prot Pipe J3:	FLXS ISOLA
Test Date K:	2015-09-15 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	P
Tight Test Date 13:	2012-04-20 00:00:00
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	2 SHUNT BOXES (BACK SHUNT BOX AND FRONT SHUNT BOX) CP TEST 9/15/15 1-2 10.00V 2.00A: .4 .1 .3 .6 .1 .3 .1 = 2.00A CPINSPCT 10/1/15 1-2 10.00V 2.00A: CPINSPCT 2/16/17 1-2 10.8V 1.62A: .29 .30 .29 .27 0 .39 0 0 = 1.70A CP INSPCT 8/8/18 1-2 3.99V 1.76A: .36 .33 .35 .32 0 .35 0 0 = 1.71A CP TEST 10/4/18 1-2 10.00V 2.00A: .26 .26 .25 .24 .24 .25 .25 .25 = 2.00A

UST:

Account number:	21838
Owner Name:	IA CORPORATION
Owner Address:	2707 GLENROSE HILL
Owner City:	ATLANTA
Owner State:	GA
Owner Zip:	30341
Owner Zip 2:	Not reported
Owner Telephone:	2055864591
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	ALEX KHAN
Owner Contact Telephone:	2055864591
Exempt:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

AL Financial Assurance:

Name: A1 FOOD MART #3  
Address: 6820 1ST AVE N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21838  
Site ID Number: 4836  
Facility Contact: TAREQ MUTHANA  
Facility Contact Phone: 2055865696  
Tank Number: 2  
Compliance AUST 18 R1: X  
Net Worth 25000 18 R1A: X  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: A1 FOOD MART #3  
Address: 6820 1ST AVE N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21838  
Site ID Number: 4836  
Facility Contact: TAREQ MUTHANA  
Facility Contact Phone: 2055865696  
Tank Number: 3  
Compliance AUST 18 R1: X  
Net Worth 25000 18 R1A: X  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: A1 FOOD MART #3  
Address: 6820 1ST AVE N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21838  
Site ID Number: 4836  
Facility Contact: TAREQ MUTHANA  
Facility Contact Phone: 2055865696  
Tank Number: 5  
Compliance AUST 18 R1: X  
Net Worth 25000 18 R1A: X  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: A1 FOOD MART #3  
Address: 6820 1ST AVE N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21838  
Site ID Number: 4836

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1 FOOD MART #3 (Continued)**

**U001718733**

Facility Contact: TAREQ MUTHANA  
Facility Contact Phone: 2055865696  
Tank Number: 1  
Compliance AUST 18 R1: X  
Net Worth 25000 18 R1A: X  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

**D13  
ENE  
1/4-1/2  
0.281 mi.  
1484 ft.**

**DEAN MCCONNELL AMOCO  
7433 1ST AVE N  
BIRMINGHAM, AL**

**LUST U001860485  
N/A**

**Site 1 of 2 in cluster D**

**Relative:  
Higher**

LUST:

**Actual:  
647 ft.**

Name: DEAN MCCONNELL AMOCO  
Address: 7433 1ST AVE N  
City,State,Zip: BIRMINGHAM, AL  
Facility ID: 12918  
Account Number: 11401  
Incident Number: 04  
Searchable Incident Number: UST880904  
Cleanup Complete: Yes  
Owner Name: DEAN MCCONNELL  
Owner Address: 7433 1ST AVE N  
Owner City,St,Zip: BIRMINGHAM, AL 35206  
Incident Month/Yr: 09/88  
Latitude: 33.558993  
Longitude: -86.73096

**D14  
ENE  
1/4-1/2  
0.305 mi.  
1609 ft.**

**EAST LAKE CHEVRON RAIN TUNNEL  
7509 1ST AVE N  
BIRMINGHAM, AL**

**LUST S106760622  
N/A**

**Site 2 of 2 in cluster D**

**Relative:  
Higher**

LUST:

**Actual:  
645 ft.**

Name: EAST LAKE CHEVRON RAIN TUNNEL  
Address: 7509 1ST AVE N  
City,State,Zip: BIRMINGHAM, AL  
Facility ID: 0  
Account Number: 0  
Incident Number: 05  
Searchable Incident Number: UST880905  
Cleanup Complete: Yes  
Owner Name: EAST LAKE CHEVRON RAIN TUNNEL  
Owner Address: 7509 1ST AVE N  
Owner City,St,Zip: BIRMINGHAM, AL 35206  
Incident Month/Yr: 09/88  
Latitude: 33.559132  
Longitude: -86.730531



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT INN (Continued)**

**1016370648**

Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Petroleum
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	95460310
Start Date:	30-May-12
Ownership Entity:	Private
Completion Date:	-
Current Owner:	Kenneth Owens
Did Owner Change:	N
Cleanup Required:	U
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	-
Unknown media affected:	Y
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AIRPORT INN (Continued)**

**1016370648**

Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	0.16
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	-
Property Description:	The site is the location of a historical gasoline station and appears to have had in-ground hydraulic lifts. The site is adjacent to a historical gasoline station.
Below Poverty Number:	729
Below Poverty Percent:	33.44
Meidan Income:	2064
Meidan Income Number:	1436
Meidan Income Percent:	65.87
Vacant Housing Number:	363
Vacant Housing Percent:	32.06
Unemployed Number:	168
Unemployed Percent:	7.71

**FINDS:**

Registry ID: 110046370887  
 Facility URL: [http://ofmpub.epa.gov/enviro/fii\\_query\\_detail.disp\\_program\\_facility?p\\_](http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT INN (Continued)**

**1016370648**

registry\_id=110046370887

Environmental Interest/Information System:

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

17  
WNW  
1/4-1/2  
0.401 mi.  
2115 ft.

**MCWANE HANGAR**  
**3700 65TH ST N**  
**BIRMINGHAM, AL 35206**

**LUST** **U003548585**  
**UST** **N/A**  
**Financial Assurance**

**Relative:**  
**Lower**  
**Actual:**  
**625 ft.**

LUST:

Name: MCWANE INC  
Address: 3700 65TH ST N  
City,State,Zip: BIRMINGHAM, AL  
Facility ID: 12014  
Account Number: 13385  
Incident Number: 05  
Searchable Incident Number: UST090505  
Cleanup Complete: Yes  
Owner Name: MCWAYNE INC  
Owner Address: 3700 65TH ST N  
Owner City,St,Zip: BIRMINGHAM, AL 35206  
Incident Month/Yr: 05/09  
Latitude: 33.558121  
Longitude: -86.744742

UST:

Name: MCWANE HANGAR  
Address: 3700 65TH ST N  
City,State,Zip: BIRMINGHAM, AL 35206  
Facility ID: 13385 73 12014  
Account Number: 13385  
Site ID Number: 12014  
Contact Name: BILL MYERS - HANGAR MGR  
Contact Phone: 2055957354  
Exempt: Not reported  
Located Within Indian Lands: Not reported  
GPS Latitude: 33.558121  
GPS Longitude: -86.744742  
Located Wellhead Protection: Not reported  
Cannot Locate Site: Not reported  
Abandoned Site: Not reported  
Residence Adjacent: Not reported  
Residence Within 300 ft: Not reported  
Under Dispersion Containment: Not reported  
UDC Insp. Date: Not reported  
UDC Insp. Results: Not reported  
Date Last Inspected: 2017-05-25 00:00:00

UST:

Account number: 13385  
Site ID: 12014  
Facility ID: 13385 73 12014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MCWANE HANGAR (Continued)

U003548585

Last Usage Date:	Not reported
Install Date:	1978-01-01
Capacity:	4000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	X
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	Not reported
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2018-05-01
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	P
Catchment Basin:	X
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	X
ATG:	Not reported
Continuous ATG:	X
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	X
Auto Ele Line Leak Detect:	X
Line Tight Test Date:	2019-08-07
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	21892
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	1

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MCWANE HANGAR (Continued)**

**U003548585**

Current A1:	X
Temporary A2:	Not reported
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	Not reported
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	X
Farm Residential F7:	Not reported
Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	P
Other Pipe I4:	Not reported
Three Year CP Review J:	2018-05-01 00:00:00
Other External Prot Pipe J3:	Not reported
Test Date K:	2018-09-17 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	P
Tight Test Date 13:	2014-09-30 00:00:00
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	SUPPLIER: EASTERN AVIATION FUELS ATG: TLS350 3 CSLD - 1WPLLD AND OTHER LINES ABOVE GROUND AUDIO/VISUAL OVERFILL ALARM LOCATED INSIDE THE HANGER NECT TO THE VEEEDER ROOT.

**UST:**

Account number:	13385
Owner Name:	MCWANE INC
Owner Address:	3700 65TH ST N
Owner City:	BIRMINGHAM
Owner State:	AL
Owner Zip:	35206
Owner Zip 2:	Not reported
Owner Telephone:	2055957354
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	BILL MYERS - HANGAR MGR
Owner Contact Telephone:	2055957354
Exempt:	Not reported

Account number:	13385
Site ID:	12014
Facility ID:	13385 73 12014
Last Usage Date:	Not reported
Install Date:	1978-01-01

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MCWANE HANGAR (Continued)**

**U003548585**

Capacity:	8000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	X
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2018-05-01
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	P
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	X
ATG:	Not reported
Continuous ATG:	X
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	2008-06-30
Check Value:	X
Gravity P:	Not reported
Unique Tank Number:	21893
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	2
Current A1:	X
Temporary A2:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MCWANE HANGAR (Continued)**

**U003548585**

Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	Not reported
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	Not reported
Farm Residential F7:	Not reported
Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	P
Other Pipe I4:	Not reported
Three Year CP Review J:	2018-05-01 00:00:00
Other External Prot Pipe J3:	Not reported
Test Date K:	2001-01-01 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	P
Tight Test Date 13:	2014-09-30 00:00:00
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	P
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	Not reported

**UST:**

Account number:	13385
Owner Name:	MCWANE INC
Owner Address:	3700 65TH ST N
Owner City:	BIRMINGHAM
Owner State:	AL
Owner Zip:	35206
Owner Zip 2:	Not reported
Owner Telephone:	2055957354
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	BILL MYERS - HANGAR MGR
Owner Contact Telephone:	2055957354
Exempt:	Not reported

Account number:	13385
Site ID:	12014
Facility ID:	13385 73 12014
Last Usage Date:	Not reported
Install Date:	1978-01-01
Capacity:	8000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MCWANE HANGAR (Continued)**

**U003548585**

Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	X
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	Not reported
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2018-05-01
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	P
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	X
ATG:	Not reported
Continuous ATG:	X
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	2008-06-30
Check Value:	X
Gravity P:	Not reported
Unique Tank Number:	21894
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	3
Current A1:	X
Temporary A2:	Not reported
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MCWANE HANGAR (Continued)

U003548585

Inert Date 3: Not reported  
Closed Without Assessment: Not reported  
Within Distance of Well 1: Not reported  
Other Petro E1L: Not reported  
Cercla Substance Name E2A: Not reported  
Cas Number E2B: Not reported  
Retail Tank F2: Not reported  
Bulk Facility Tank F3: Not reported  
Industrial Tank F4: X  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: P  
Other Pipe I4: Not reported  
Three Year CP Review J: 2018-05-01 00:00:00  
Other External Prot Pipe J3: Not reported  
Test Date K: 2001-01-01 00:00:00  
T Test 13 M3: Not reported  
TT Test Reviewed: P  
Tight Test Date 13: 2014-09-30 00:00:00  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: P  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: CP TEST 5/8/15 A-4 14.0V 0.70A: 0 .1 0 .2 .2 = 0.70A CP INSPCT  
6/24/15 A-4 14.3V 0.70A: .04 0 .4 .23 0 0 = 0.67A CP INSPCT 5/24/17  
A-4 14.3V 0.82A: .11 0 .37 0 .33 0 = 0.81A CPTEST 5/1/18 A-4 15.0V  
0.80A: 0 .2 0 .2 .2 = 0.80A

UST:

Account number: 13385  
Owner Name: MCWANE INC  
Owner Address: 3700 65TH ST N  
Owner City: BIRMINGHAM  
Owner State: AL  
Owner Zip: 35206  
Owner Zip 2: Not reported  
Owner Telephone: 2055957354  
Owner Type 2: P  
GSA ID: Not reported  
Owner Contact Name: BILL MYERS - HANGAR MGR  
Owner Contact Telephone: 2055957354  
Exempt: Not reported

AL Financial Assurance:

Name: MCWANE HANGAR  
Address: 3700 65TH ST N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 13385  
Site ID Number: 12014  
Facility Contact: BILL MYERS - HANGAR MGR  
Facility Contact Phone: 2055957354

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MCWANE HANGAR (Continued)**

**U003548585**

Tank Number: 2  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: MCWANE HANGAR  
Address: 3700 65TH ST N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 13385  
Site ID Number: 12014  
Facility Contact: BILL MYERS - HANGAR MGR  
Facility Contact Phone: 2055957354  
Tank Number: 3  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: MCWANE HANGAR  
Address: 3700 65TH ST N  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 13385  
Site ID Number: 12014  
Facility Contact: BILL MYERS - HANGAR MGR  
Facility Contact Phone: 2055957354  
Tank Number: 1  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

18  
WNW  
1/4-1/2  
0.425 mi.  
2244 ft.

**DRUMMOND CO HANGAR**  
**3800 65TH ST NORTH**  
**BIRMINGHAM, AL 35206**

**LUST U001470267**  
**UST N/A**  
**Financial Assurance**

**Relative:**  
**Lower**  
**Actual:**  
**620 ft.**

**LUST:**  
Name: DRUMMOND CO HANGAR  
Address: 3800 65TH ST NORTH  
City,State,Zip: BIRMINGHAM, AL  
Facility ID: 2542  
Account Number: 21430  
Incident Number: 06  
Searchable Incident Number: UST090506

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Cleanup Complete: Yes  
Owner Name: DRUMMOND CO INC  
Owner Address: 3800 65TH ST NORTH  
Owner City,St,Zip: BIRMINGHAM, AL 35206  
Incident Month/Yr: 05/09  
Latitude: 33.558711  
Longitude: -86.744847

Name: DRUMMOND CO HANGAR  
Address: 3800 65TH ST NORTH  
City,State,Zip: BIRMINGHAM, AL  
Facility ID: 2542  
Account Number: 21430  
Incident Number: 03  
Searchable Incident Number: UST120303  
Cleanup Complete: Yes  
Owner Name: DRUMMOND CO INC  
Owner Address: 3800 65TH ST NORTH  
Owner City,St,Zip: BIRMINGHAM, AL 35206  
Incident Month/Yr: 03/12  
Latitude: 33.558711  
Longitude: -86.744847

**UST:**

Name: DRUMMOND CO HANGAR  
Address: 3800 65TH ST NORTH  
City,State,Zip: BIRMINGHAM, AL 35206  
Facility ID: 21430 73 2542  
Account Number: 21430  
Site ID Number: 2542  
Contact Name: JJ PERTILE -OPERATOR  
Contact Phone: 2059173131  
Exempt: Not reported  
Located Within Indian Lands: Not reported  
GPS Latitude: 33.558711  
GPS Longitude: -86.744847  
Located Wellhead Protection: Not reported  
Cannot Locate Site: Not reported  
Abandoned Site: Not reported  
Residence Adjacent: Not reported  
Residence Within 300 ft: Not reported  
Under Dispersion Containment: Not reported  
UDC Insp. Date: Not reported  
UDC Insp. Results: Not reported  
Date Last Inspected: 2017-05-25 00:00:00

**UST:**

Account number: 21430  
Site ID: 2542  
Facility ID: 21430 73 2542  
Last Usage Date: 2000-12-01  
Install Date: 1981-05-01  
Capacity: 4000  
Compartments: 1  
Unleaded Gas: Not reported  
Midgrade Gas: Not reported  
Premium Gas: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	X
Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	X
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2017-03-02
Bare Steel:	X
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	P
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	X
ATG:	Not reported
Continuous ATG:	X
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	29034
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	X
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	1
Current A1:	Not reported
Temporary A2:	X
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	Not reported
Bulk Facility Tank F3:	Not reported
Industrial Tank F4:	X
Farm Residential F7:	Not reported
Other Material G3:	Not reported
Other Extern H6:	Not reported
Three Year CP Review H:	P
Other Pipe I4:	Not reported
Three Year CP Review J:	2017-03-02 00:00:00
Other External Prot Pipe J3:	Not reported
Test Date K:	2001-01-01 00:00:00
T Test 13 M3:	Not reported
TT Test Reviewed:	Not reported
Tight Test Date 13:	2008-06-02 00:00:00
Other M11:	Not reported
Other N1D:	Not reported
LF Test Reviewed:	Not reported
Groundwater Monitoring N2D:	Not reported
Other N2H:	Not reported
Line Tightness Testing 3YRS O1:	Not reported
Sir 15 07:	Not reported
Tank Comments:	ATG TLS350 2 CSLD - 4 SENSORS (4 TRANSITION SUMPS) PNEUMATIC/HYDRAULICALLY OPERATED FLAPPER VALVE SECONDARY

**UST:**

Account number:	21430
Owner Name:	DRUMMOND CO INC
Owner Address:	3800 65TH ST NORTH
Owner City:	BIRMINGHAM
Owner State:	AL
Owner Zip:	35206
Owner Zip 2:	Not reported
Owner Telephone:	0
Owner Type 2:	P
GSA ID:	Not reported
Owner Contact Name:	JJ PERTILE MAINTENACE DIR
Owner Contact Telephone:	2059173131
Exempt:	Not reported

Account number:	21430
Site ID:	2542
Facility ID:	21430 73 2542
Last Usage Date:	Not reported
Install Date:	1981-05-01
Capacity:	12000
Compartments:	1
Unleaded Gas:	Not reported
Midgrade Gas:	Not reported
Premium Gas:	Not reported
Diesel:	Not reported
Kerosene:	Not reported
Aviation Fuel:	X

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Used Oil:	Not reported
Virgin Oil:	Not reported
Local Government:	Not reported
State and Federal:	Not reported
Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	X
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2017-03-02
Bare Steel:	Not reported
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	X
ATG:	Not reported
Continuous ATG:	X
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	Not reported
Gravity P:	Not reported
Unique Tank Number:	29035
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	Not reported
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	2
Current A1:	X
Temporary A2:	Not reported
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Cercla Substance Name E2A: Not reported  
Cas Number E2B: Not reported  
Retail Tank F2: Not reported  
Bulk Facility Tank F3: Not reported  
Industrial Tank F4: X  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: P  
Other Pipe I4: ABOVEGROUN  
Three Year CP Review J: Not reported  
Other External Prot Pipe J3: Not reported  
Test Date K: Not reported  
T Test 13 M3: Not reported  
TT Test Reviewed: Not reported  
Tight Test Date 13: 2008-06-02 00:00:00  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: Not reported  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: Not reported

UST:

Account number: 21430  
Owner Name: DRUMMOND CO INC  
Owner Address: 3800 65TH ST NORTH  
Owner City: BIRMINGHAM  
Owner State: AL  
Owner Zip: 35206  
Owner Zip 2: Not reported  
Owner Telephone: 0  
Owner Type 2: P  
GSA ID: Not reported  
Owner Contact Name: JJ PERTILE MAINTENACE DIR  
Owner Contact Telephone: 2059173131  
Exempt: Not reported

Account number: 21430  
Site ID: 2542  
Facility ID: 21430 73 2542  
Last Usage Date: Not reported  
Install Date: 1981-05-01  
Capacity: 12000  
Compartments: 1  
Unleaded Gas: Not reported  
Midgrade Gas: Not reported  
Premium Gas: Not reported  
Diesel: Not reported  
Kerosene: Not reported  
Aviation Fuel: X  
Used Oil: Not reported  
Virgin Oil: Not reported  
Local Government: Not reported  
State and Federal: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Steel:	X
Fiberglass and Plastic:	Not reported
Cathodic Protection:	X
Field Installed Cathodic:	X
Interior Lined:	Not reported
Three Year CP Test Date:	2017-03-02
Bare Steel:	Not reported
Fiberglass/Plastic:	Not reported
Flexible:	Not reported
Three Year CP Test Date:	Not reported
Catchment Basin:	Not reported
Flow Restrictor:	Not reported
Auto Shutoff:	Not reported
Alarm:	X
ATG:	Not reported
Continuous ATG:	X
Secondary:	Not reported
Vapor:	Not reported
Groundwater:	Not reported
Statistical Inv Reconciled:	Not reported
Annual Test Date:	Not reported
Annual Line Test:	Not reported
Auto Ele Line Leak Detect:	Not reported
Line Tight Test Date:	Not reported
Vapor Monitoring:	Not reported
Sir 15:	Not reported
Interstitial W2 Cont:	Not reported
Line Tight 3 Years Test Date:	Not reported
Check Value:	X
Gravity P:	Not reported
Unique Tank Number:	29036
Cannot Locate:	Not reported
Year of Last Sir Report:	Not reported
Tank Contains Gasohol ( 85% Ethanol):	Not reported
Tank Contains Biodiesel:	Not reported
Number Manifolds:	0
Single Walled Tank:	X
Double Walled Tank:	Not reported
Steel Tank Coated W/ Fiberglass:	Not reported
Single Walled Piping:	Not reported
Double Walled Piping:	Not reported
Submersible Pump Sump Inspection Date:	2001-01-01
Tank Number:	3
Current A1:	X
Temporary A2:	Not reported
Retired:	Not reported
Permanent A3:	Not reported
Removal Date 3:	Not reported
Inert:	Not reported
Inert Date 3:	Not reported
Closed Without Assessment:	Not reported
Within Distance of Well 1:	Not reported
Other Petro E1L:	Not reported
Cercla Substance Name E2A:	Not reported
Cas Number E2B:	Not reported
Retail Tank F2:	Not reported
Bulk Facility Tank F3:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Industrial Tank F4: X  
Farm Residential F7: Not reported  
Other Material G3: Not reported  
Other Extern H6: Not reported  
Three Year CP Review H: P  
Other Pipe I4: ABOVEGROUN  
Three Year CP Review J: Not reported  
Other External Prot Pipe J3: Not reported  
Test Date K: 2001-01-01 00:00:00  
T Test 13 M3: Not reported  
TT Test Reviewed: Not reported  
Tight Test Date 13: 2008-06-02 00:00:00  
Other M11: Not reported  
Other N1D: Not reported  
LF Test Reviewed: Not reported  
Groundwater Monitoring N2D: Not reported  
Other N2H: Not reported  
Line Tightness Testing 3YRS O1: Not reported  
Sir 15 07: Not reported  
Tank Comments: CLASS A/B: DAVE JOHNSON CP TEST 3/24/14 C-A 7.78V 1.62A: .48 .37 .38  
.40 = 1.63A - REPLACED CPTEST 3/2/17 1-6 19.09V 2.10A: .63 .48 .46 .50  
= 2.07A CPINSPCT 5/25/17 1-6 5.90V 2.08A: .66 .54 .52 .54 = 2.26A  
DMIMS@DRUMMONDCO.COM; JPERTILE@DRUMMONDCO.COM

UST:

Account number: 21430  
Owner Name: DRUMMOND CO INC  
Owner Address: 3800 65TH ST NORTH  
Owner City: BIRMINGHAM  
Owner State: AL  
Owner Zip: 35206  
Owner Zip 2: Not reported  
Owner Telephone: 0  
Owner Type 2: P  
GSA ID: Not reported  
Owner Contact Name: JJ PERTILE MAINTENACE DIR  
Owner Contact Telephone: 2059173131  
Exempt: Not reported

AL Financial Assurance:

Name: DRUMMOND CO HANGAR  
Address: 3800 65TH ST NORTH  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21430  
Site ID Number: 2542  
Facility Contact: JJ PERTILE -OPERATOR  
Facility Contact Phone: 2059173131  
Tank Number: 1  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DRUMMOND CO HANGAR (Continued)**

**U001470267**

Self Insured 18 R2C: Not reported

Name: DRUMMOND CO HANGAR  
Address: 3800 65TH ST NORTH  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21430  
Site ID Number: 2542  
Facility Contact: JJ PERTILE -OPERATOR  
Facility Contact Phone: 2059173131  
Tank Number: 2  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

Name: DRUMMOND CO HANGAR  
Address: 3800 65TH ST NORTH  
City,State,Zip: BIRMINGHAM, AL 35206  
Account Number: 21430  
Site ID Number: 2542  
Facility Contact: JJ PERTILE -OPERATOR  
Facility Contact Phone: 2059173131  
Tank Number: 3  
Compliance AUST 18 R1: Not reported  
Net Worth 25000 18 R1A: Not reported  
Surety 18 R1B: Not reported  
Private Insurance 18 R2A: Not reported  
Insurer 18 R2A: Not reported  
Policy Number 18 R2A: Not reported  
Guarantee 18 2RB: Not reported  
Self Insured 18 R2C: Not reported

19  
SSW  
1/4-1/2  
0.475 mi.  
2507 ft.

**EXXON R/S 50900**  
**6601 1ST AVE N/66TH ST**  
**BIRMINGHAM, AL**

**LUST S102231533**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**640 ft.**

LUST:  
Name: EXXON R/S 50900  
Address: 6601 1ST AVE N/66TH ST  
City,State,Zip: BIRMINGHAM, AL  
Facility ID: 3015  
Account Number: 11765  
Incident Number: 09  
Searchable Incident Number: UST920509  
Cleanup Complete: Yes  
Owner Name: EXXONMOBIL CORP  
Owner Address: 17001 NORTHCHASE DRIVE  
Owner City,St,Zip: HOUSTON, TX 77060  
Incident Month/Yr: 05/92  
Latitude: 33.549531  
Longitude: -86.740154

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**20**  
**SSW**  
**1/4-1/2**  
**0.495 mi.**  
**2613 ft.**

**BHAM (1ST AVE) DG, LLC**  
**6512-6520 1ST AVE N & 117 & 121 65TH PLACE NORTH**  
**BIRMINGHAM, AL**

**VCP S111986959**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**638 ft.**

VCP:  
 Name: BHAM (1ST AVE) DG, LLC  
 Address: 6512-6520 1ST AVE N & 117 & 121 65TH PLACE NORTH  
 City,State,Zip: BIRMINGHAM, AL  
 Site Number: 073-020  
 Former Site Name(s): Not reported  
 Owner: Bham (1st Ave) DG, LLC  
 Lat/Long DegreeMinSec: 33 32 58.78 / 86 44 27.94  
 Property Size in Acres: 1.03  
 Date of Discovery: Not reported  
 Governing Programs(s): BRVCP  
 Known Previous Usage(s): Not reported  
 EPA ID: Not reported  
 Master ID: 41829  
 Metals: Not reported  
 Metals 1: Not reported  
 Metals 2: Not reported  
 SW Contam/VOCs/SVOCs: Not reported  
 Other: Not reported  
 Other 1: Not reported  
 Other 2: Not reported  
 Land Use/Inst Controls: Not reported  
 Eng Controls: Not reported  
 Risk-based Closure Scenario: Not reported  
 Soil Contamination VOCs/SVOCs: Not reported  
 GW Contamination VOCs/SVOCs: Not reported  
 Code: 461

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BIRMINGHAM	S117343759	CSX/COMMERCIAL TRACT TRANSACTION	1ST AVE S BETWEEN (28TH TO 31S		VCP
BIRMINGHAM	S123199559	EAST LAKE SERVICE CENTER INC	125 S 77TH ST		LUST
BIRMINGHAM	S118666861	EBSCO MEDIA SITE	801 & 825 5TH AVENUE S. & 802		VCP
BIRMINGHAM	S123315422	FORMER WITTICHEN SUPPLY COMPANY, I	CITY BLOCK 132, 1600 3RD AVENU		AUL, VCP
BIRMINGHAM	S113897156	OFFICE INDUSTRIAL PARK	4329 MORRIS AVENUE & 4363 1ST		VCP

# 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: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/06/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/13/2020
	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: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/06/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/13/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***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: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: EPA  
Telephone: N/A  
Last EDR Contact: 05/06/2020  
Next Scheduled EDR Contact: 07/13/2020  
Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

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: 04/03/2019  
Date Data Arrived at EDR: 04/05/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 04/03/2020  
Next Scheduled EDR Contact: 07/13/2020  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 05/06/2020  
Next Scheduled EDR Contact: 07/27/2020  
Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/06/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019	Source: EPA
Date Data Arrived at EDR: 12/16/2019	Telephone: 800-424-9346
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

### RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (404) 562-8651
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

### ***Federal institutional controls / engineering controls registries***

#### 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: 11/04/2019	Source: Department of the Navy
Date Data Arrived at EDR: 11/13/2019	Telephone: 843-820-7326
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 05/14/2020
Number of Days to Update: 76	Next Scheduled EDR Contact: 08/24/2020
	Data Release Frequency: Varies

#### 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: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

#### US INST CONTROLS: Institutional Controls Sites List

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: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 12/16/2019  
Date Data Arrived at EDR: 12/19/2019  
Date Made Active in Reports: 03/06/2020  
Number of Days to Update: 78

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 03/24/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Quarterly

## **State- and tribal - equivalent CERCLIS**

### HWS DETAIL: Alabama Hazardous Substance Cleanup Fund Annual Report

The Alabama Hazardous Substance Cleanup Fund (AHSCF) was established in 1989 by act of the Alabama Legislature (Code of Alabama 1975, ?22-30A) to provide a mechanism for ADEM to investigate, remediate, and monitor hazardous substance sites. These sites may potentially endanger human health and the environment, but may not qualify to be addressed by other federal or state cleanup programs.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 03/13/2019  
Date Made Active in Reports: 04/25/2019  
Number of Days to Update: 43

Source: Department of Environmental Management  
Telephone: 334-271-7730  
Last EDR Contact: 03/09/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Annually

### SHWS: Hazardous Substance Cleanup Fund

Hazardous substance sites, which pose a threat to public health and the environment, which will be cleaned up utilizing the Hazardous Substance Cleanup Fund.

Date of Government Version: 04/17/2019  
Date Data Arrived at EDR: 06/25/2019  
Date Made Active in Reports: 08/19/2019  
Number of Days to Update: 55

Source: Department of Environmental Management  
Telephone: 334-271-7984  
Last EDR Contact: 03/05/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Annually

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: Permitted Landfills

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: 03/06/2018  
Date Data Arrived at EDR: 10/11/2018  
Date Made Active in Reports: 10/31/2018  
Number of Days to Update: 20

Source: Department of Environmental Management  
Telephone: 334-271-7730  
Source: Department of Environmental Management, GIS Section  
Telephone: 334-271-7700  
Last EDR Contact: 04/10/2020  
Next Scheduled EDR Contact: 07/20/2020  
Data Release Frequency: Varies

## **State and tribal leaking storage tank lists**

### LUST: Leaking Underground Storage Tank Listing

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: 12/02/2019  
Date Data Arrived at EDR: 12/19/2019  
Date Made Active in Reports: 02/28/2020  
Number of Days to Update: 71

Source: Department of Environmental Management  
Telephone: 334-270-5655  
Last EDR Contact: 03/24/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LAST: List of AST Release Incidents

A listing of aboveground storage tank releases that have been reported to ADEM. These are primarily smaller retail ASTs and smaller bulk plant ASTs.

Date of Government Version: 12/02/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/18/2019	Telephone: 334-271-7712
Date Made Active in Reports: 02/28/2020	Last EDR Contact: 03/18/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/23/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## 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: 10/04/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3372
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## 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: 10/01/2019	Source: EPA Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	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: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-6597
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019	Source: EPA, Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-7439
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-8677
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/17/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/03/2020
	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: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6271
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## **State and tribal registered storage tank lists**

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019	Source: FEMA
Date Data Arrived at EDR: 08/28/2019	Telephone: 202-646-5797
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 03/19/2020
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Varies

UST: Underground Storage Tank Information  
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: 11/20/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/19/2019	Telephone: 334-270-5655
Date Made Active in Reports: 03/03/2020	Last EDR Contact: 03/24/2020
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Sites  
Aboveground storage tank locations.

Date of Government Version: 11/20/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/19/2019	Telephone: 334-271-7926
Date Made Active in Reports: 03/03/2020	Last EDR Contact: 03/24/2020
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

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).

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/01/2019	Source: EPA, Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## 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: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-9424
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/03/2020
	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).

Date of Government Version: 10/01/2019	Source: EPA Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-6136
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	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: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-7591
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## 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: 10/11/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/04/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## 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: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6137
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/04/2019	Source: EPA Region 9
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3368
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 04/24/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### ENG CONTROLS: Engineering Controls Site Listing

A listing of sites with engineering controls included in the Land Division Cleanup Program Inventory listing.

Date of Government Version: 08/24/2009	Source: Department of Environmental Management
Date Data Arrived at EDR: 08/26/2009	Telephone: 334-271-7735
Date Made Active in Reports: 09/11/2009	Last EDR Contact: 03/05/2020
Number of Days to Update: 16	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Varies

### AUL: Environmental Covenants

An environmental covenant is required for a site if the approved environmental response project plan places a land use control on the site because it is not being remediated to unrestricted use.

Date of Government Version: 12/13/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/23/2020	Telephone: 334-279-3053
Date Made Active in Reports: 03/30/2020	Last EDR Contact: 03/05/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Varies

### INST CONTROL: Land Division Brownfields 128(a) Program Site Listing

Institutional Controls (ICs) are non-engineered instruments, such as administrative and/or legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of a remedy by limiting land or resource use. There are five different types of controls. These are governmental, proprietary, enforcement tools with IC components, informational devices and unrestricted. Unrestricted- No institutional controls (unrestricted for industrial and residential use). Governmental- controls implemented and enforced by state and local governments. (zoning restrictions, ordinances, building permits, etc.). Proprietary- controls which have their basis in real property law (easements, covenants). Enforcement and Permit Tools with IC components- these controls are issued to compel land owners to limit certain site activities on both federal and private sites. Informational devices- informational tools with provide information or notification that residual or capped contamination may remain on site (deed or hazard notices).

Date of Government Version: 08/24/2009	Source: Department of Environmental Management
Date Data Arrived at EDR: 08/26/2009	Telephone: 334-271-7735
Date Made Active in Reports: 09/11/2009	Last EDR Contact: 03/14/2016
Number of Days to Update: 16	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### VCP: Cleanup Program Inventory

Currently the Cleanup Inventory List contains information about sites undergoing assessment and possible cleanup under Alabama's Brownfield Redevelopment and Voluntary Cleanup Program. It also includes sites that have exited the program but were remediated to less than unrestricted levels.

Date of Government Version: 07/26/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 09/09/2019	Telephone: 334-271-7700
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 03/10/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/18/2020
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/06/2020
	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.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### **State and tribal Brownfields sites**

#### BROWNFIELDS: Land Division Brownfields 128(a) Program Site Listing

A listing of Brownfields activities performed by ADEM.

Date of Government Version: 07/26/2019	Source: Department of Environmental Management
Date Data Arrived at EDR: 09/09/2019	Telephone: 334-271-7735
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 03/10/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Varies

#### BROWNFIELDS 2: Directory of Brownfields Sites

The directory provides a brief look at sites being marketed as brownfields.

Date of Government Version: 04/01/2011	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/16/2011	Telephone: 334-271-7735
Date Made Active in Reports: 07/26/2011	Last EDR Contact: 03/05/2020
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/22/2020
	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: 12/02/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: 202-566-2777
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 03/17/2020
Number of Days to Update: 81	Next Scheduled EDR Contact: 06/29/2020
	Data Release Frequency: Semi-Annually

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SWRCY: Recycling/Recovered Materials Processors Directory

A listing of recycling facilities.

Date of Government Version: 09/01/2009  
Date Data Arrived at EDR: 01/22/2010  
Date Made Active in Reports: 02/05/2010  
Number of Days to Update: 14

Source: Department of Economic & Community Affairs  
Telephone: 334-242-5336  
Last EDR Contact: 03/31/2020  
Next Scheduled EDR Contact: 07/20/2020  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 04/16/2020  
Next Scheduled EDR Contact: 08/10/2020  
Data Release Frequency: Varies

## 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

## 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: 04/09/2020  
Next Scheduled EDR Contact: 08/03/2020  
Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 05/01/2020  
Next Scheduled EDR Contact: 08/10/2020  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019  
Date Data Arrived at EDR: 06/13/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 82

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AOCONCERN: Area of Concern

Property boundary of the Redstone Arsenal facility.

Date of Government Version: 09/01/2008  
Date Data Arrived at EDR: 09/24/2008  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 394

Source: Department of the Army  
Telephone: 256-313-3255  
Last EDR Contact: 04/16/2020  
Next Scheduled EDR Contact: 08/10/2020  
Data Release Frequency: No Update Planned

## CDL: Clandestine Methamphetamine Lab Sites

Clandestine methamphetamine lab locations seized by law enforcement agencies.

Date of Government Version: 12/09/2010  
Date Data Arrived at EDR: 02/08/2011  
Date Made Active in Reports: 02/28/2011  
Number of Days to Update: 20

Source: Department of Environmental Management.  
Telephone: 334-271-7700  
Last EDR Contact: 04/16/2020  
Next Scheduled EDR Contact: 08/10/2020  
Data Release Frequency: Varies

## 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: 06/11/2019  
Date Data Arrived at EDR: 06/13/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 82

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Quarterly

## PFAS: PFAS Contamination Site Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950s. Their stability and unique chemical properties produce waterproof, stain resistant, and nonstick qualities in products. They are found in some firefighting foams and a wide range of consumer products such as carpet treatments, non-stick cookware, water-resistant fabrics, food packaging materials, and personal care products.

Date of Government Version: 12/16/2019  
Date Data Arrived at EDR: 12/16/2019  
Date Made Active in Reports: 02/26/2020  
Number of Days to Update: 72

Source: Department of Environmental Management  
Telephone: 334-271-7712  
Last EDR Contact: 03/17/2020  
Next Scheduled EDR Contact: 06/29/2020  
Data Release Frequency: Quarterly

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

### HIST UST: Underground Storage Tank Information

Storage tank sites removed from the UST database are added to the HIST UST database.

Date of Government Version: 11/20/2019  
Date Data Arrived at EDR: 12/19/2019  
Date Made Active in Reports: 03/03/2020  
Number of Days to Update: 75

Source: Department of Environmental Management  
Telephone: 334-271-7759  
Last EDR Contact: 03/24/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Varies

## **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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/2020  
Date Data Arrived at EDR: 02/05/2020  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 9

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 05/06/2020  
Next Scheduled EDR Contact: 07/13/2020  
Data Release Frequency: Semi-Annually

## **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: 12/05/2019  
Date Data Arrived at EDR: 12/06/2019  
Date Made Active in Reports: 02/14/2020  
Number of Days to Update: 70

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 03/24/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Quarterly

### **SPILLS: Emergency Response Data**

Incidents involving spills of oil and hazardous materials.

Date of Government Version: 12/11/2019  
Date Data Arrived at EDR: 12/18/2019  
Date Made Active in Reports: 02/28/2020  
Number of Days to Update: 72

Source: Department of Environmental Management  
Telephone: 334-394-4382  
Last EDR Contact: 03/18/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Varies

## **Other Ascertainable Records**

### **RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated**

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: 12/16/2019  
Date Data Arrived at EDR: 12/16/2019  
Date Made Active in Reports: 12/20/2019  
Number of Days to Update: 4

Source: Environmental Protection Agency  
Telephone: (404) 562-8651  
Last EDR Contact: 03/25/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Quarterly

### **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: 01/28/2020  
Date Data Arrived at EDR: 02/19/2020  
Date Made Active in Reports: 05/14/2020  
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 02/19/2020  
Next Scheduled EDR Contact: 06/01/2020  
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: 04/10/2020  
Next Scheduled EDR Contact: 07/20/2020  
Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 04/06/2020
Number of Days to Update: 574	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: N/A

### 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: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/13/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/19/2019	Telephone: 202-566-1917
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 03/24/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/04/2020
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/08/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 03/20/2020
Number of Days to Update: 198	Next Scheduled EDR Contact: 06/29/2020
	Data Release Frequency: Every 4 Years

## 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: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 202-566-0250
Date Made Active in Reports: 04/24/2020	Last EDR Contact: 02/05/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Annually

## 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: 05/01/2019	Source: EPA
Date Data Arrived at EDR: 10/23/2019	Telephone: 202-564-4203
Date Made Active in Reports: 01/15/2020	Last EDR Contact: 04/21/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Annually

## 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: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 703-416-0223
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/06/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/15/2020
	Data Release Frequency: Annually

## RMP: Risk Management Plans

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/05/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/20/2019	Telephone: 202-564-8600
Date Made Active in Reports: 04/17/2020	Last EDR Contact: 04/15/2020
Number of Days to Update: 149	Next Scheduled EDR Contact: 08/03/2020
	Data Release Frequency: Varies

## 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

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/06/2020	Telephone: 202-564-6023
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/06/2020
Number of Days to Update: 8	Next Scheduled EDR Contact: 08/17/2020
	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: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 04/10/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/20/2020
	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: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 03/26/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: No Update Planned

## 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  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: No Update Planned

## 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: 10/25/2019  
Date Data Arrived at EDR: 10/25/2019  
Date Made Active in Reports: 01/15/2020  
Number of Days to Update: 82

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 04/10/2020  
Next Scheduled EDR Contact: 08/03/2020  
Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 12/04/2019  
Date Made Active in Reports: 01/15/2020  
Number of Days to Update: 42

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 03/06/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 01/12/2017  
Date Data Arrived at EDR: 03/05/2019  
Date Made Active in Reports: 11/11/2019  
Number of Days to Update: 251

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 02/27/2020  
Next Scheduled EDR Contact: 06/15/2020  
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: 09/13/2019  
Date Data Arrived at EDR: 11/06/2019  
Date Made Active in Reports: 02/10/2020  
Number of Days to Update: 96

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 05/08/2020  
Next Scheduled EDR Contact: 08/17/2020  
Data Release Frequency: Varies

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019  
Date Data Arrived at EDR: 07/01/2019  
Date Made Active in Reports: 09/23/2019  
Number of Days to Update: 84

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 07/01/2019  
Next Scheduled EDR Contact: 07/13/2020  
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.

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

## DOT OPS: Incident and Accident Data

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

Date of Government Version: 01/02/2020  
Date Data Arrived at EDR: 01/28/2020  
Date Made Active in Reports: 04/17/2020  
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 04/28/2020  
Next Scheduled EDR Contact: 08/10/2020  
Data Release Frequency: Quarterly

## 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: 12/31/2019  
Date Data Arrived at EDR: 01/17/2020  
Date Made Active in Reports: 03/06/2020  
Number of Days to Update: 49

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 03/26/2020  
Next Scheduled EDR Contact: 07/20/2020  
Data Release Frequency: Varies

## 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: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 03/25/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/10/2020
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 04/29/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/17/2020
	Data Release Frequency: Varies

## 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: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/21/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/05/2020	Telephone: 703-603-8787
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 05/06/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/13/2020
	Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US 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: 11/06/2019  
Date Data Arrived at EDR: 11/25/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 02/25/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Semi-Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 12/03/2019  
Date Data Arrived at EDR: 12/03/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 03/02/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 02/28/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 02/28/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/09/2019  
Date Data Arrived at EDR: 12/11/2019  
Date Made Active in Reports: 02/27/2020  
Number of Days to Update: 78

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 03/05/2020  
Next Scheduled EDR Contact: 06/22/2020  
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: 11/22/2019  
Date Data Arrived at EDR: 12/04/2019  
Date Made Active in Reports: 03/02/2020  
Number of Days to Update: 89

Source: EPA  
Telephone: (404) 562-9900  
Last EDR Contact: 03/03/2020  
Next Scheduled EDR Contact: 06/15/2020  
Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 07/26/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 71

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 02/21/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 01/17/2019  
Date Made Active in Reports: 04/01/2019  
Number of Days to Update: 74

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 04/03/2020  
Next Scheduled EDR Contact: 07/27/2020  
Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/05/2020  
Date Data Arrived at EDR: 01/07/2020  
Date Made Active in Reports: 03/06/2020  
Number of Days to Update: 59

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 04/07/2020  
Next Scheduled EDR Contact: 07/20/2020  
Data Release Frequency: Quarterly

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/18/2020  
Date Data Arrived at EDR: 02/19/2020  
Date Made Active in Reports: 05/14/2020  
Number of Days to Update: 85

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 02/19/2020  
Next Scheduled EDR Contact: 06/01/2020  
Data Release Frequency: Quarterly

## COAL ASH: Coal Ash Disposal Sites

A listing of coal ash disposal site locations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/02/2009  
Date Data Arrived at EDR: 06/25/2009  
Date Made Active in Reports: 07/17/2009  
Number of Days to Update: 22

Source: Department of Environmental Management  
Telephone: 334-271-7718  
Last EDR Contact: 03/20/2020  
Next Scheduled EDR Contact: 07/13/2020  
Data Release Frequency: Varies

## DRYCLEANERS: Drycleaner Facility Listing

A listing of drycleaner sites in the voluntary DERTF.

Date of Government Version: 11/21/2019  
Date Data Arrived at EDR: 02/14/2020  
Date Made Active in Reports: 03/09/2020  
Number of Days to Update: 24

Source: Department of Environmental Management  
Telephone: 334-271-7703  
Last EDR Contact: 04/29/2020  
Next Scheduled EDR Contact: 08/24/2020  
Data Release Frequency: Varies

## Financial Assurance: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/20/2019  
Date Data Arrived at EDR: 12/19/2019  
Date Made Active in Reports: 03/03/2020  
Number of Days to Update: 75

Source: Department of Environmental Management  
Telephone: 334-271-7759  
Last EDR Contact: 03/24/2020  
Next Scheduled EDR Contact: 07/06/2020  
Data Release Frequency: Quarterly

## NPDES: NPDES Permit Listing

A listing of municipal and industrial permits issued by the Department of Environmental Management.

Date of Government Version: 04/05/2012  
Date Data Arrived at EDR: 04/06/2012  
Date Made Active in Reports: 04/25/2012  
Number of Days to Update: 19

Source: Department of Environmental Management  
Telephone: 334-271-7712  
Last EDR Contact: 03/18/2020  
Next Scheduled EDR Contact: 07/06/2020  
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: 12/31/2013  
Date Data Arrived at EDR: 06/20/2014  
Date Made Active in Reports: 07/24/2014  
Number of Days to Update: 34

Source: Department of Environmental Management  
Telephone: 334-260-2714  
Last EDR Contact: 03/05/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of underground injection control wells.

Date of Government Version: 02/03/2020  
Date Data Arrived at EDR: 02/04/2020  
Date Made Active in Reports: 04/13/2020  
Number of Days to Update: 69

Source: Geological Survey of Alabama  
Telephone: 205-247-3661  
Last EDR Contact: 05/05/2020  
Next Scheduled EDR Contact: 08/17/2020  
Data Release Frequency: Quarterly

## MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018  
Date Data Arrived at EDR: 10/21/2019  
Date Made Active in Reports: 10/24/2019  
Number of Days to Update: 3

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 02/28/2020  
Next Scheduled EDR Contact: 06/08/2020  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: 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  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historical 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Alabama.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/26/2013  
Number of Days to Update: 178

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from Department of Environmental Management in Alabama.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/26/2013  
Number of Days to Update: 178

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
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: 01/30/2020  
Date Data Arrived at EDR: 01/30/2020  
Date Made Active in Reports: 03/09/2020  
Number of Days to Update: 39

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/12/2020  
Next Scheduled EDR Contact: 08/24/2020  
Data Release Frequency: No Update Planned

## NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 04/10/2019  
Date Made Active in Reports: 05/16/2019  
Number of Days to Update: 36

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 04/10/2020  
Next Scheduled EDR Contact: 07/20/2020  
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: 01/01/2019  
Date Data Arrived at EDR: 05/01/2019  
Date Made Active in Reports: 06/21/2019  
Number of Days to Update: 51

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 04/29/2020  
Next Scheduled EDR Contact: 08/10/2020  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 04/02/2020  
Next Scheduled EDR Contact: 07/27/2020  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 10/02/2019  
Date Made Active in Reports: 12/10/2019  
Number of Days to Update: 69

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 05/14/2020  
Next Scheduled EDR Contact: 08/31/2020  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/09/2020  
Next Scheduled EDR Contact: 06/22/2020  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

## Electric Power Transmission Line Data

Source: Endeavor Business Media

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**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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Daycare Centers: Licensed Centers

Source: Department of Human Resources

Telephone: 334-242-1425

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Data

Source: Alabama State Water Program

Telephone: 334-844-3927

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

WAUHOMA PROJECT  
111 71ST ST N  
BIRMINGHAM, AL 35206

### TARGET PROPERTY COORDINATES

Latitude (North):	33.55647 - 33° 33' 23.29"
Longitude (West):	86.736256 - 86° 44' 10.52"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	524482.6
UTM Y (Meters):	3712818.2
Elevation:	638 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	6700710 IRONDALE, AL
Version Date:	2014
West Map:	6700690 BIRMINGHAM NORTH, AL
Version Date:	2014

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 principle 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).

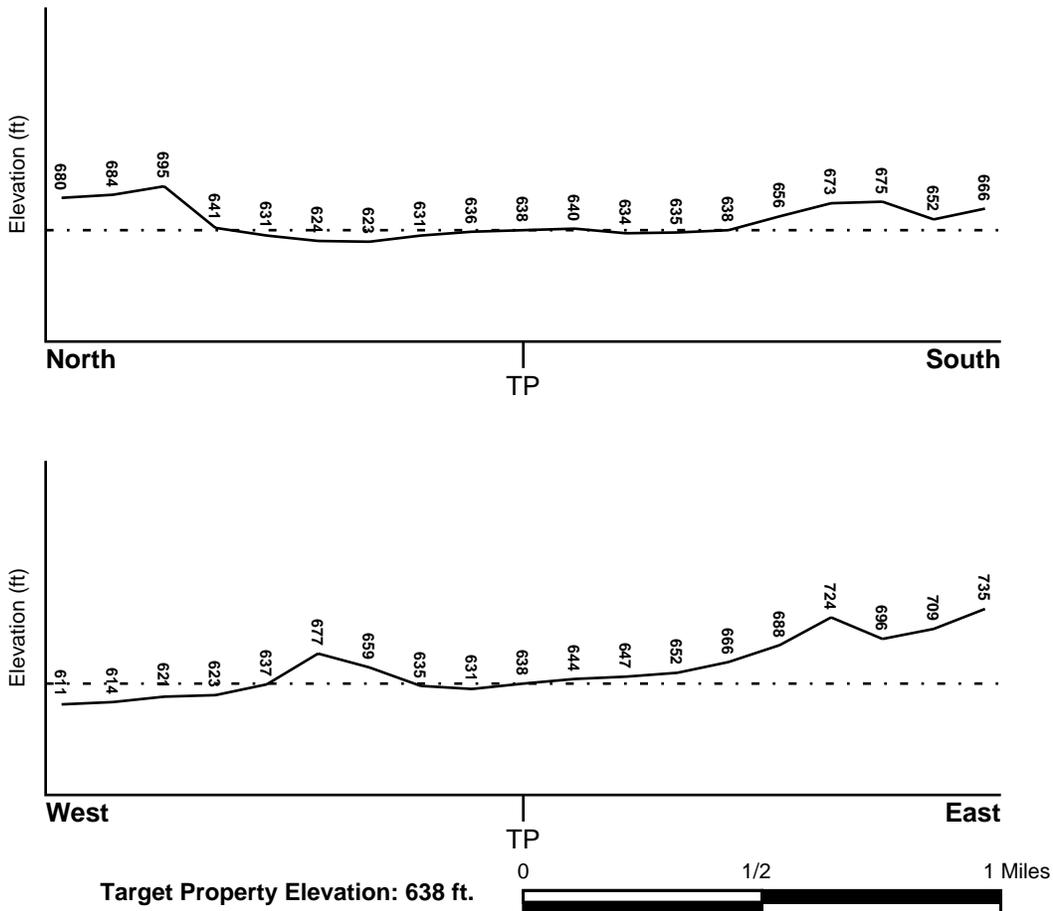
## TOPOGRAPHIC INFORMATION

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 NNW

## 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**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
01073C0411G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
01073C0384G	FEMA FIRM Flood data
01073C0403G	FEMA FIRM Flood data
01073C0392G	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
IRONDALE	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	1/2 - 1 Mile SSW	SSW
2	1/2 - 1 Mile WNW	N
3	1/2 - 1 Mile West	WSW
1G	1/2 - 1 Mile WNW	N
2G	1/2 - 1 Mile West	WSW
3G	1/2 - 1 Mile SSW	SSW

For additional site information, refer to Physical Setting Source Map Findings.

## 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**

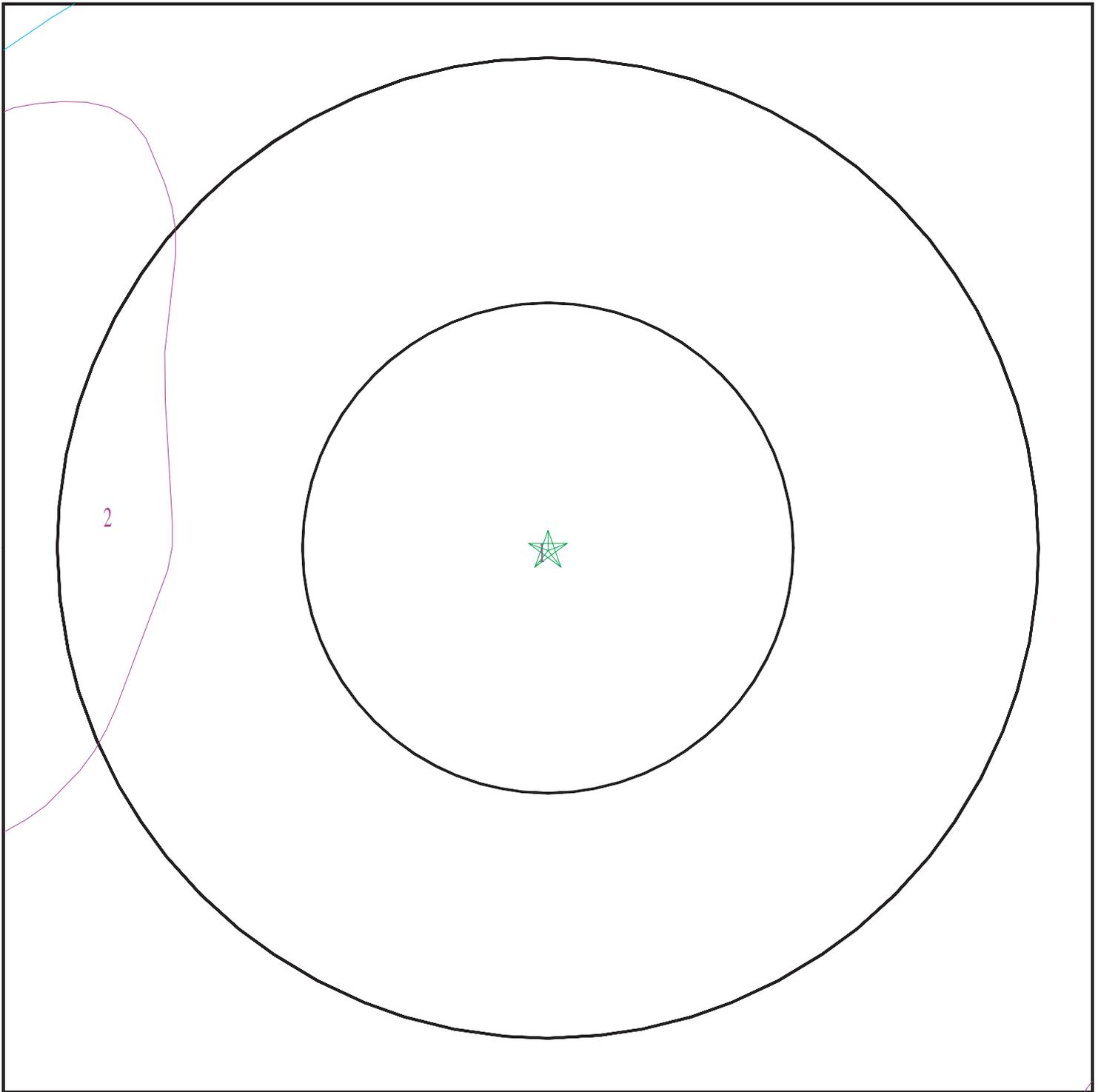
Era:	Paleozoic
System:	Ordovician
Series:	Ordovician
Code:	O (decoded above as Era, System & Series)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

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).

# SSURGO SOIL MAP - 6065586.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Wauhoma Project  
ADDRESS: 111 71st St N  
Birmingham AL 35206  
LAT/LONG: 33.55647 / 86.736256

CLIENT: Spectrum Environmental Inc.  
CONTACT: Audrey Henson  
INQUIRY #: 6065586.2s  
DATE: May 15, 2020 12:59 pm

# 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: Tupelo

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 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	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6.5 Min: 5.1
2	7 inches	55 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), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6.5 Min: 5.1

### Soil Map ID: 2

Soil Component Name: Fullerton

Soil Surface Texture: gravelly silt 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: Partially 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	gravelly silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	5 inches	35 inches	gravelly silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	35 inches	64 inches	gravelly silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14 Min: 4	Max: 5.5 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>
_____	_____	_____

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

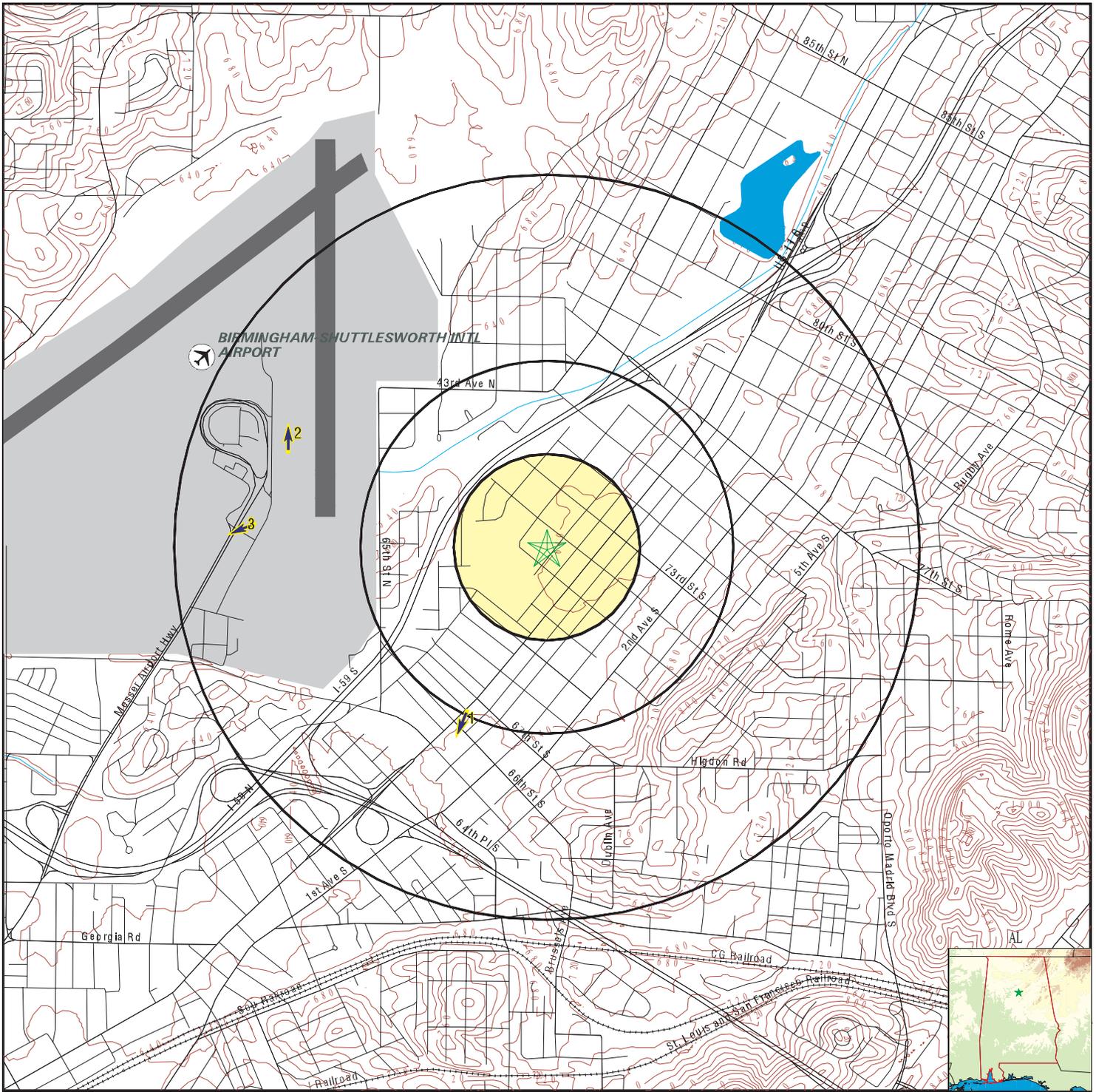
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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 - 6065586.2s



- 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
- Oil, gas or related wells



SITE NAME: Wauhoma Project  
 ADDRESS: 111 71st St N  
 Birmingham AL 35206  
 LAT/LONG: 33.55647 / 86.736256

CLIENT: Spectrum Environmental Inc.  
 CONTACT: Audrey Henson  
 INQUIRY #: 6065586.2s  
 DATE: May 15, 2020 12:59 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

<b>1</b> <b>SSW</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	Site ID: 3015 Groundwater Flow: SSW Shallowest Water Table Depth: 2.02 Deepest Water Table Depth: 4.17 Average Water Table Depth: Not Reported Date: 04/1998	<b>AQUIFLOW</b>	<b>33275</b>
--	---	-----------------	--------------

<b>2</b> <b>WNW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: Not Reported Groundwater Flow: N Shallowest Water Table Depth: 3.0 Deepest Water Table Depth: 6.0 Average Water Table Depth: Not Reported Date: 07/1993	<b>AQUIFLOW</b>	<b>33700</b>
---	---	-----------------	--------------

<b>3</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: 8363 Groundwater Flow: WSW Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: Not Reported Date: 03/10/1995	<b>AQUIFLOW</b>	<b>33835</b>
--	--	-----------------	--------------

<b>1G</b> <b>WNW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: Not Reported Groundwater Flow: N Shallowest Water Table Depth: 3.0 Deepest Water Table Depth: 6.0 Average Water Table Depth: Not Reported Date: 07/1993	<b>AQUIFLOW</b>	<b>33700</b>
--	---	-----------------	--------------

<b>2G</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: 8363 Groundwater Flow: WSW Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: Not Reported Date: 03/10/1995	<b>AQUIFLOW</b>	<b>33835</b>
---	--	-----------------	--------------

<b>3G</b> <b>SSW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID: 3015 Groundwater Flow: SSW Shallowest Water Table Depth: 2.02 Deepest Water Table Depth: 4.17 Average Water Table Depth: Not Reported Date: 04/1998	<b>AQUIFLOW</b>	<b>33275</b>
--	---	-----------------	--------------

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for JEFFERSON County: 2

- 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: 35206

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.700 pCi/L	0%	100%	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.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Data

Source: Alabama State Water Program

Telephone: 334-844-3927

## 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 Service (NRCS)

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 Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, 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

#### Alabama Wells Data

Source: Department of Environmental Management

Telephone: 334-271-7985

## OTHER STATE DATABASE INFORMATION

#### Well Surface Locations

Source: Geological Survey of Alabama, State Oil and Gas Board

Telephone: 205-247-3661

A listing of oil and gas well locations in the state.

### RADON

#### State Database: AL Radon

Source: Department of Public Health

Telephone: 334-206-5391

Short-Term Test Results for Alabama Counties

#### 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

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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APPENDIX D

FIRE INSURANCE MAP REPORT

Wauhoma Project

111 71st St N

Birmingham, AL 35206

Inquiry Number: 6065586.3

May 17, 2020

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

05/17/20

**Site Name:**

Wauhoma Project  
111 71st St N  
Birmingham, AL 35206  
EDR Inquiry # 6065586.3

**Client Name:**

Spectrum Environmental Inc.  
85 Spectrum CV  
Alabaster, AL 35007  
Contact: Audrey Henson



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Spectrum Environmental Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

**Certified Sanborn Results:**

**Certification #** 8311-475F-9C90

**PO #** NA

**Project** 3357-001

**Maps Provided:**

1967  
1950  
1930  
1911



Sanborn® Library search results

Certification #: 8311-475F-9C90

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

*The Sanborn Library LLC Since 1866™*

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## Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



### 1967 Source Sheets

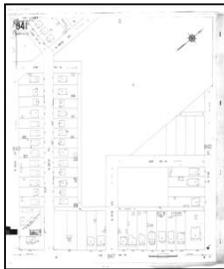


Volume 8, Sheet 841  
1967



Volume 8, Sheet 842  
1967

### 1950 Source Sheets



Volume 8, Sheet 841  
1950



Volume 8, Sheet 842  
1950

### 1930 Source Sheets

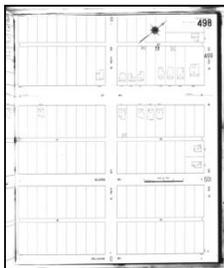


Volume 8, Sheet 841  
1930



Volume 8, Sheet 842  
1930

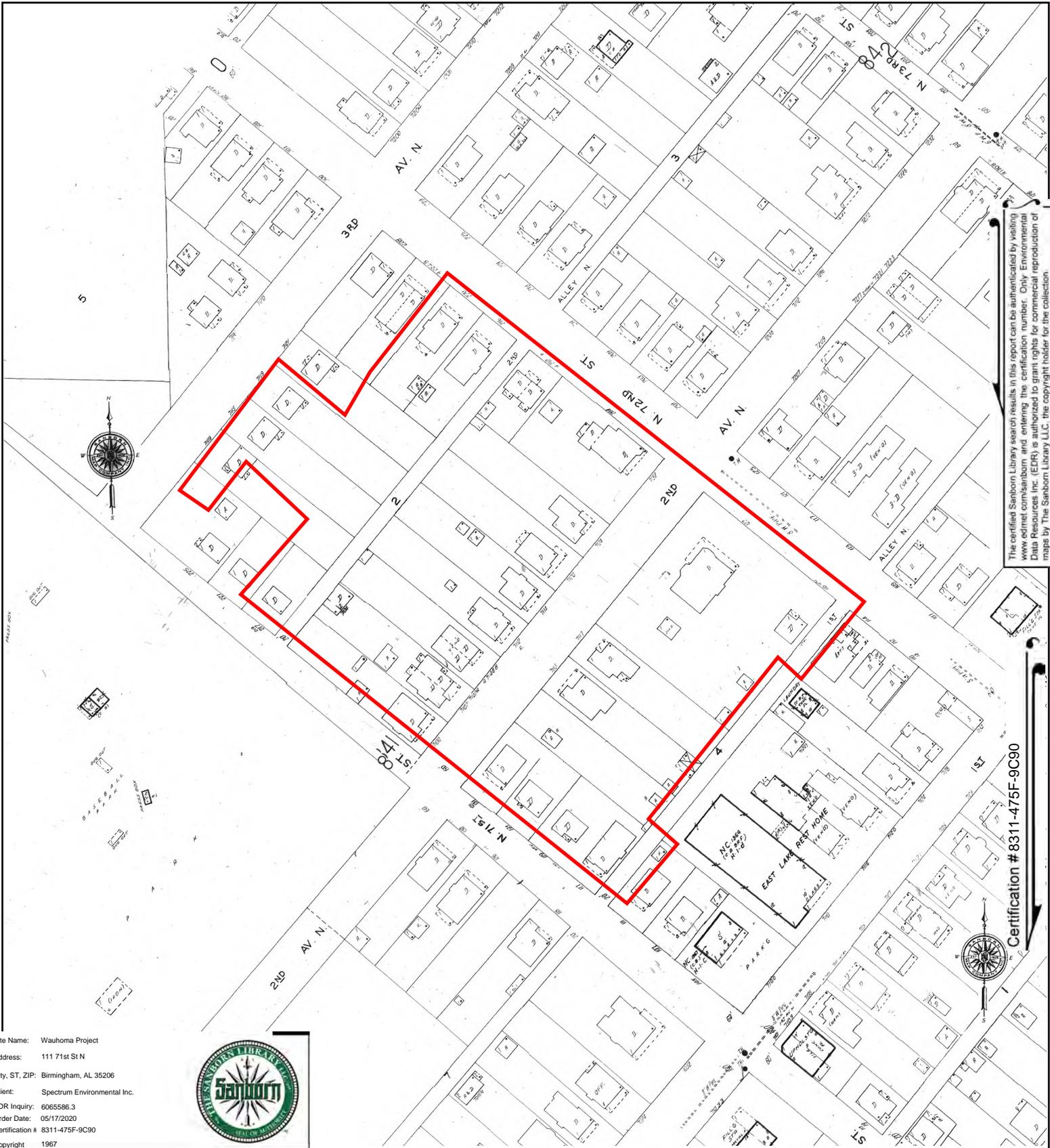
### 1911 Source Sheets



Volume 4, Sheet 498  
1911



Volume 4, Sheet 499  
1911



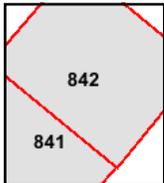
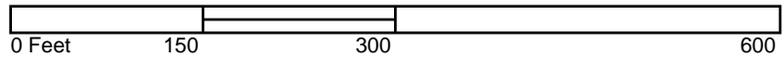
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Certification # 8311-475F-9C90

Site Name: Wauhoma Project  
 Address: 111 71st St N  
 City, ST, ZIP: Birmingham, AL 35206  
 Client: Spectrum Environmental Inc.  
 EDR Inquiry: 6065586.3  
 Order Date: 05/17/2020  
 Certification #: 8311-475F-9C90  
 Copyright: 1967

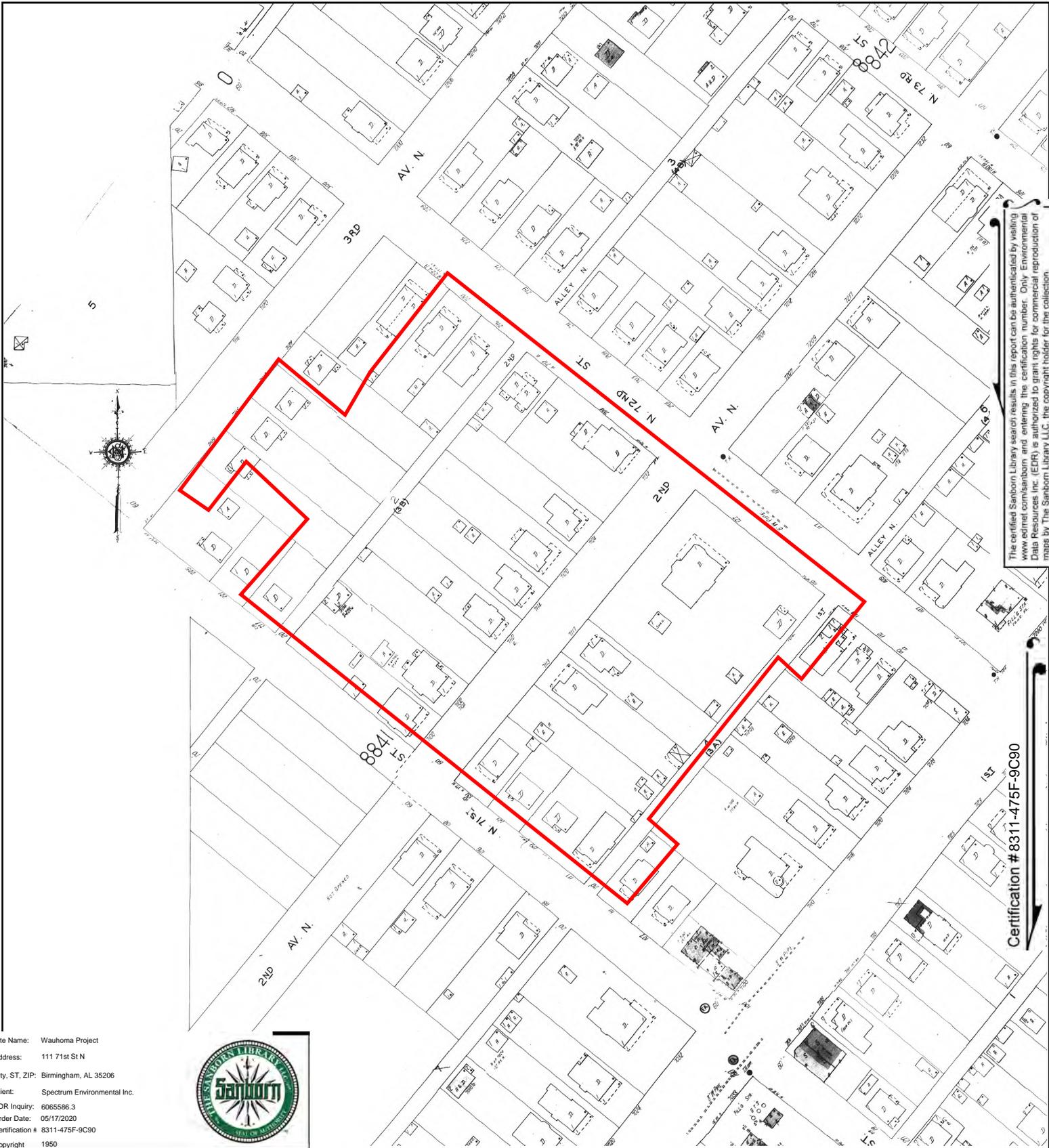


This Certified Sanborn Map combines the following sheets.  
 Outlined areas indicate map sheets within the collection.



Volume 8, Sheet 842  
 Volume 8, Sheet 841



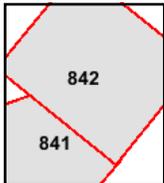
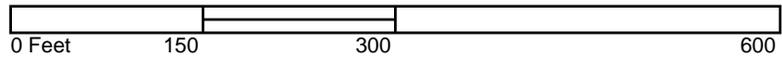


Site Name: Wauhoma Project  
 Address: 111 71st St N  
 City, ST, ZIP: Birmingham, AL 35206  
 Client: Spectrum Environmental Inc.  
 EDR Inquiry: 6065586.3  
 Order Date: 05/17/2020  
 Certification # 8311-475F-9C90  
 Copyright 1950



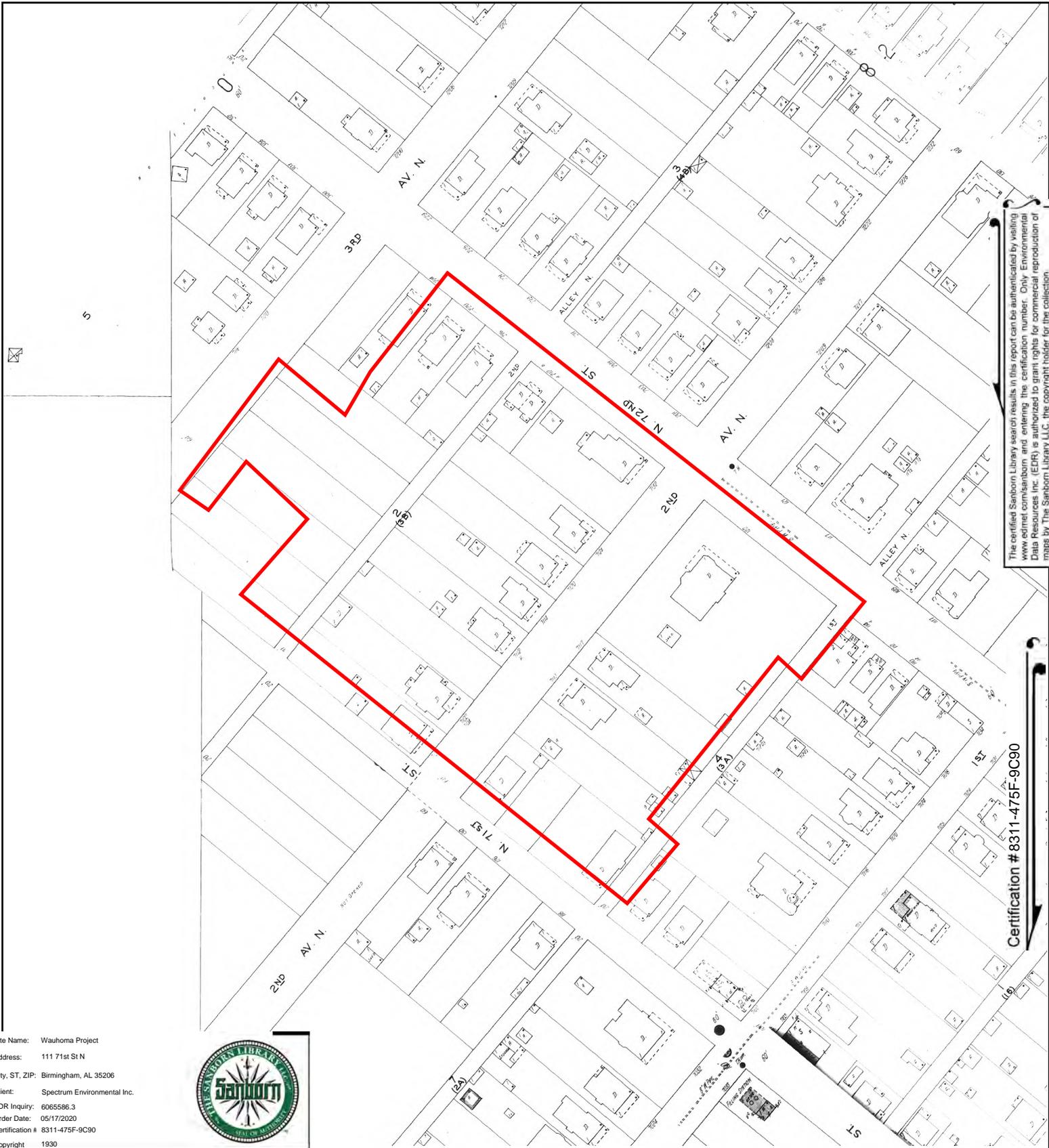
Certification # 8311-475F-9C90

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Volume 8, Sheet 842  
 Volume 8, Sheet 841





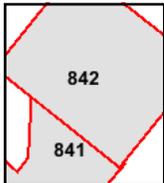
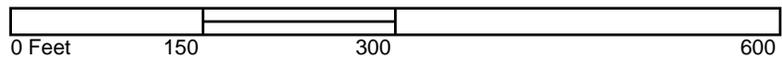
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Certification #8311-475F-9C90

Site Name: Wauhoma Project  
 Address: 111 71st St N  
 City, ST, ZIP: Birmingham, AL 35206  
 Client: Spectrum Environmental Inc.  
 EDR Inquiry: 6065586.3  
 Order Date: 05/17/2020  
 Certification #: 8311-475F-9C90  
 Copyright: 1930

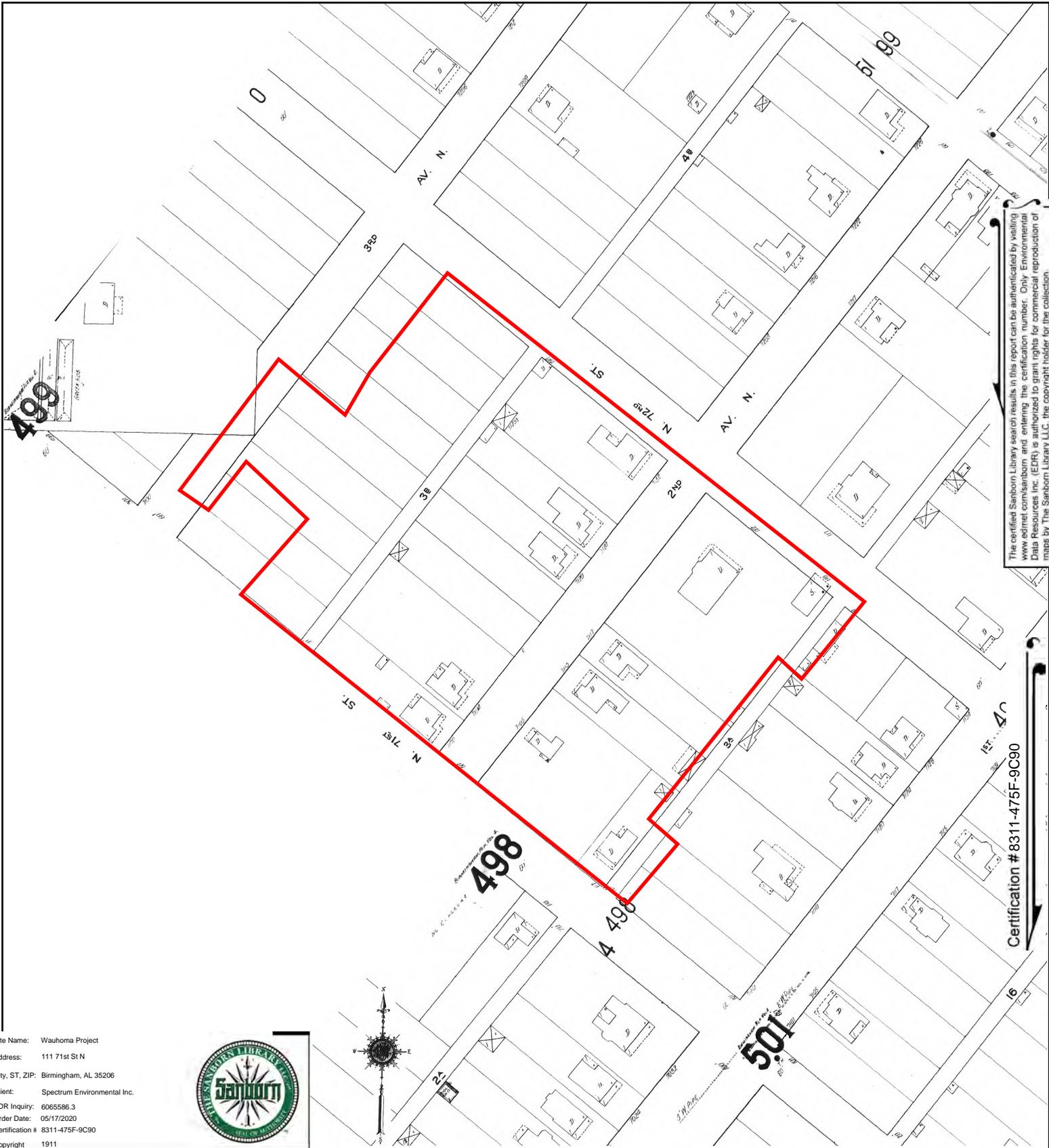


This Certified Sanborn Map combines the following sheets.  
 Outlined areas indicate map sheets within the collection.



Volume 8, Sheet 842  
 Volume 8, Sheet 841





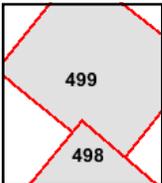
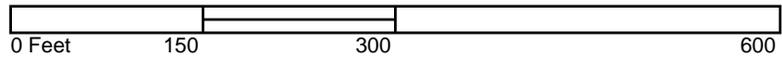
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Certification #8311-475F-9C90

Site Name: Wauhoma Project  
 Address: 111 71st St N  
 City, ST, ZIP: Birmingham, AL 35206  
 Client: Spectrum Environmental Inc.  
 EDR Inquiry: 6065586.3  
 Order Date: 05/17/2020  
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 Copyright 1911



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 Outlined areas indicate map sheets within the collection.



Volume 4, Sheet 499  
 Volume 4, Sheet 498



APPENDIX E

HISTORICAL AERIAL PHOTOGRAPHS



**Wauhoma Project**

111 71st St N

Birmingham, AL 35206

Inquiry Number: 6065586.5

May 15, 2020

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

05/15/20

**Site Name:**

Wauhoma Project  
111 71st St N  
Birmingham, AL 35206  
EDR Inquiry # 6065586.5

**Client Name:**

Spectrum Environmental Inc.  
85 Spectrum CV  
Alabaster, AL 35007  
Contact: Audrey Henson



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: March 01, 1998	USGS/DOQQ
1992	1"=500'	Flight Date: April 04, 1992	USGS
1988	1"=500'	Flight Date: May 26, 1988	USDA
1981	1"=500'	Flight Date: March 02, 1981	USDA
1977	1"=500'	Flight Date: March 25, 1977	USDA
1970	1"=500'	Flight Date: February 21, 1970	USGS
1967	1"=500'	Flight Date: October 11, 1967	USDA
1956	1"=500'	Flight Date: January 08, 1956	USDA
1951	1"=500'	Flight Date: March 09, 1951	USDA
1947	1"=500'	Flight Date: March 22, 1947	USGS
1941	1"=500'	Flight Date: February 17, 1941	USDA

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INQUIRY #: 6065586.5

YEAR: 2017

— = 500'





INQUIRY #: 6065586.5

YEAR: 2013

— = 500'





INQUIRY #: 6065586.5

YEAR: 2009

— = 500'





INQUIRY #: 6065586.5

YEAR: 2006

— = 500'





INQUIRY #: 6065586.5

YEAR: 1998

— = 500'





INQUIRY #: 6065586.5

YEAR: 1992

— = 500'





INQUIRY #: 6065586.5

YEAR: 1988

— = 500'





INQUIRY #: 6065586.5

YEAR: 1981

— = 500'





INQUIRY #: 6065586.5

YEAR: 1977

— = 500'





INQUIRY # 6065586.5

YEAR: 1970

— = 500'





INQUIRY #: 6065586.5

YEAR: 1967

— = 500'





INQUIRY #: 6065586.5

YEAR: 1956

— = 500'





INQUIRY #: 6065586.5

YEAR: 1951

— = 500'





INQUIRY #: 6065586.5

YEAR: 1947

— = 500'





INQUIRY #: 6065586.5

YEAR: 1941

— = 500'



APPENDIX F

SITE RECONNAISSANCE PHOTOGRAPHS

# Site Reconnaissance Photographs



View of 111 71<sup>st</sup> St N parcel.



View of 114 72<sup>nd</sup> St N parcel.



View of 7100 2nd Ave N parcel facing southeast end.



View of 7100 2nd Ave N parcel facing northwest end.

# Site Reconnaissance Photographs



View of 212 72<sup>nd</sup> St N parcel.



View inside 212 72<sup>nd</sup> St N parcel.



View of 217 71<sup>st</sup> St N parcel (occupied).



View of 220 72<sup>nd</sup> St N parcel.

# Site Reconnaissance Photographs



View of 7120 2<sup>nd</sup> Ave parcel.



View of 7132 2<sup>nd</sup> Ave N parcel.



View of 7109 and 7111 3<sup>rd</sup> Ave N parcels facing southeast.



7109 and 7111 3<sup>rd</sup> Ave N parcels facing southwest.

# Site Reconnaissance Photographs



7115 3<sup>rd</sup> Ave N parcel.



View of former filling station at surrounding property to the east (Intersection of 1<sup>st</sup> Ave N and 72<sup>nd</sup> St N).



View of former filling station at surrounding property to the southeast (East Lake Auto Clinic).



View of former laundry facility site and current coin laundry facility (surrounding property to the southeast).

APPENDIX G

PHASE II LIMITED SITE ASSESSMENT



July 21, 2020

Central Alabama Housing Alliance C/O  
Habitat for Humanity of Greater Birmingham  
PO Box 540  
4408 Lloyd Noland Parkway  
Fairfield, Alabama 35064

**ATTENTION: Patricia Burch**

**SUBJECT: Limited Site Assessment Report**  
East Lake Scattered Sites  
Birmingham, Alabama  
Spectrum Project No. 3357-001-02

*Via email to: [pburch@habitatbirmingham.org](mailto:pburch@habitatbirmingham.org)*

Dear Patricia:

Spectrum Environmental, Inc. (Spectrum) is pleased to submit this Limited Site Assessment (Phase II ESA) Report for the above referenced site. This report includes a summary of the project background, presents a summary of the scope of work, and provides a summary of the findings/conclusions.

***Project Background***

Spectrum completed a Phase I Environmental Site Assessment (Phase I ESA) for the referenced property on June 2, 2020. A summary of the Phase I ESA Findings is provided below:

*Based on our review of current and historical site data, the historical use of surrounding properties as a dry-cleaning facility and gas stations from the 1930s until at least the late 1980s is interpreted as a REC in connection with the target property.*

[www.specenviro.com](http://www.specenviro.com)

Corporate Office  
Alabaster, AL  
(205) 664-2000

Mid-South Office  
Nashville, TN  
(615) 469-4941

Southeast Office  
Atlanta, GA  
(470) 242-8702

***Limited Site Assessment – Scope of Work***

Based on the understanding discussed above, a limited assessment of soil and groundwater on the target property was conducted to assess whether or not the historical uses of upgradient surrounding properties have affected the target property. A summary of the scope of work conducted is summarized below.

1. Spectrum contacted Alabama One Call to locate underground utilities on the target property and in proximity to the proposed boring locations. The site location and aerial photograph are shown on Figures 1 and 2 in Appendix A;
2. Spectrum advanced three soil borings via direct-push techniques (Appendix A - Figure 3) as an initial evaluation of soil and groundwater conditions.
3. For each location, the borings were advanced to 20 feet below surface level, until refusal, or until groundwater was encountered;
4. Spectrum collected one soil sample from each boring immediately above the groundwater table and one groundwater sample from each boring location;
5. Each sample was recorded on a chain of custody form; placed into the cooler with ice, and submitted with the samples to the chosen laboratory for analysis of Volatile Organic Compounds via EPA method 8260C.

***Summary of Field Activity***

Spectrum mobilized to the site on July 9, 2020. Two borings were selected at the vacant lot located at 111 71<sup>st</sup> Street N. and one boring was selected at the vacant lot located at 114 72<sup>nd</sup> Street N. A map depicting soil boring locations is provided in Appendix A - Figure 3.

The soil samples were removed from the clear acetate liners and placed into laboratory-prepared sample jars and vials. Groundwater samples were also obtained from each boring location and placed into laboratory-prepared sample jars and vials. All samples were sent to Xenco Laboratories in Norcross, Georgia under a chain of custody in a refrigerated cooler. The samples were all analyzed for Volatile Organic Compounds (VOCs) via EPA method 8260C.

***Summary of Laboratory Analytical Results***

Laboratory analytical data was compared against Regional Screening Levels (RSL) published by EPA. The RSL table utilized has a target hazard quotient of 0.1 and a Target Cancer Risk of 1E-06.

***Summary of Soil Data***

Based on our review of the laboratory analytical reports, all soil samples reported the VOCs to be below the method detection limit. The Laboratory Analysis Report and Chain of Custody are provided in Appendix B.

***Summary of Groundwater Data***

Based on our review of the laboratory analytical reports, all groundwater samples reported the VOCs to be below the method detection limit, except for Boring 2. The sample taken from Boring 2 reported Tetrachloroethylene at the 1.84 µg/L. The Tapwater RSL for Tetrachloroethylene is 4.1 µg/L and maximum contaminant limit (MCL) is 5.0 µg/L. The Laboratory Analysis Report and Chain of Custody are provided in Appendix B.

***Conclusions***

Soil and groundwater samples were collected from three borings at the subject property. All soil and groundwater samples were reported below the EPA RSLs. Based on these results, it is unlikely that contamination originating from the historical dry-cleaning facility and gas stations in the surrounding area has affected the property.

---

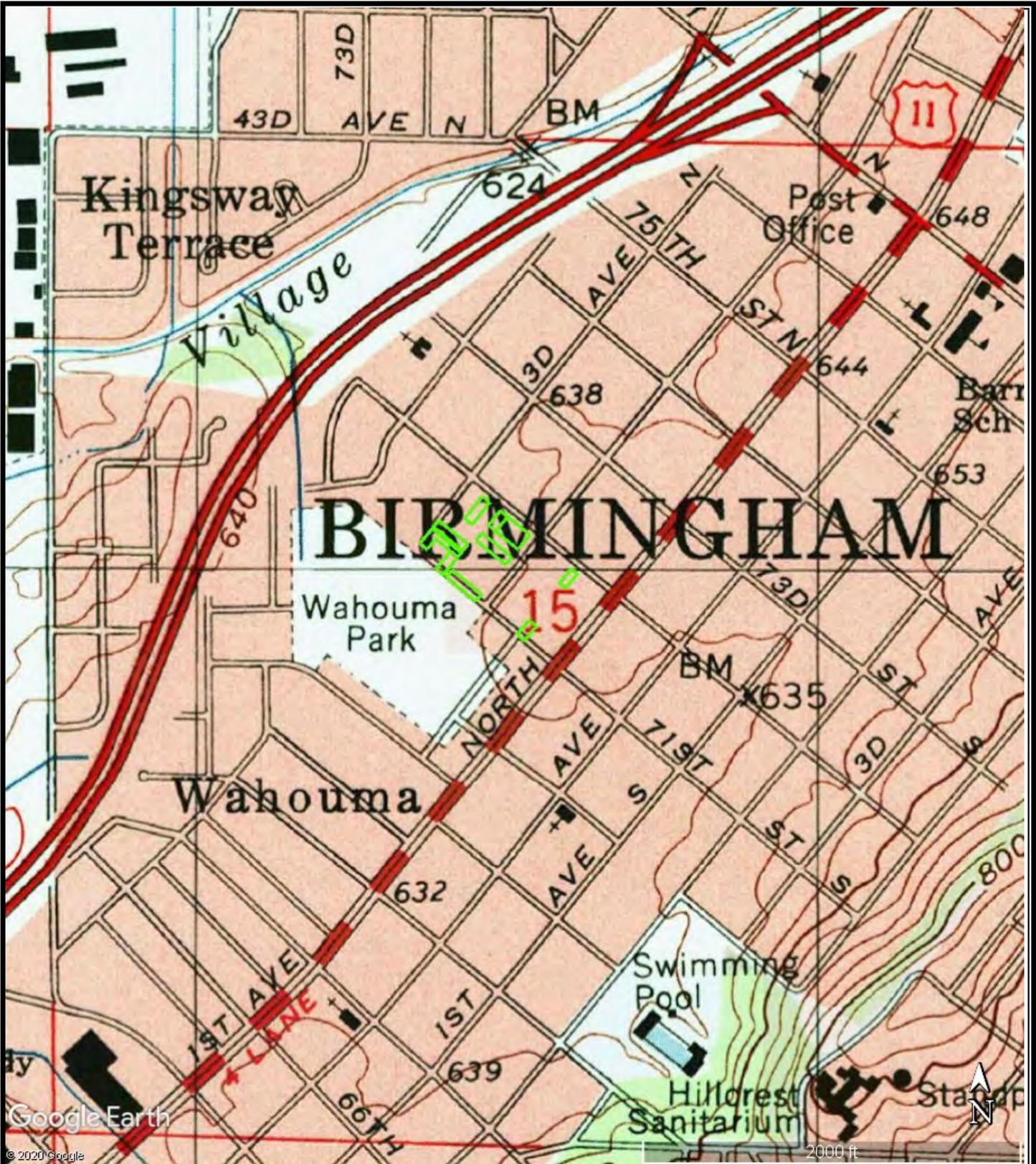
Should you have any questions or comments, please call the undersigned at (205) 664-2000.

Sincerely,  
SPECTRUM ENVIRONMENTAL, INC.

  
Audrey Henson  
Staff Scientist

  
Jamie D. Cox, P.G.  
Division Manager

APPENDIX A  
FIGURES



Source: Image courtesy of EDR. Approximate site location outlined in green.

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	6/2/2020
Project Mgr.:	File Name:
JC	3357-001-02

**SPECTRUM**  
Solutions to Your Environmental Challenges

85 Spectrum Cove  
Alabaster, AL 35007  
O - 205-664-2000  
F-205-664-2142

TITLE
<b>Figure 1 - Site Location</b> East Lake Scattered Sites Birmingham, Alabama



Source: Image courtesy of Google Earth Approximate site location outlined in green

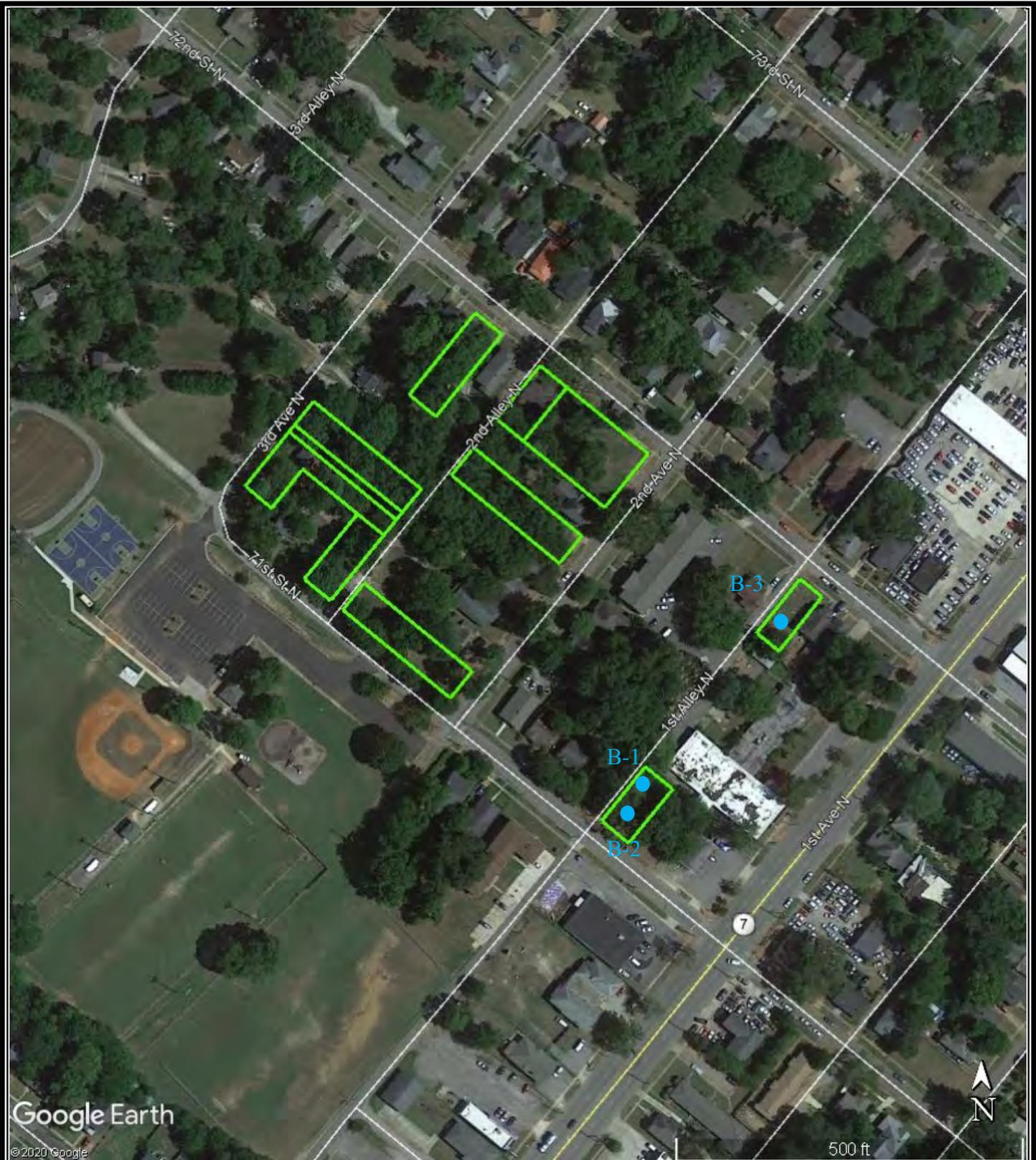
NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	6/2/2020
Project Mgr.:	File Name:
JC	3357-001-02

**SPECTRUM**  
Solutions to Your Environmental Challenges

85 Spectrum Cove  
Alabaster, AL 35007  
O - 205-664-2000  
F-205-664-2142

TITLE
<b>Figure 2 - Site Aerial Map</b> East Lake Scattered Sites Birmingham, AL



Source: Image courtesy of Google Earth

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	6/2/2020
Project Mgr.:	File Name:
JC	3357-001-02

**SPECTRUM**  
Solutions to Your Environmental Challenges

85 Spectrum Cove  
Alabaster, AL 35007  
O - 205-664-2000  
F-205-664-2142

TITLE
<b>Figure 3 - Boring Locations</b> East Lake Scattered Sites Birmingham, AL

APPENDIX B  
SOIL AND GROUNDWATER LABORATORY ANALYTICAL REPORTS

# Analytical Report 667009

for

## Spectrum Environmental Services

**Project Manager: Jamie Cox**

**Wauhoma Project**

**3357-002**

**07.21.2020**

Collected By: Client



**1600 Oakbrook Dr., Suite 565, Norcross, GA 30093**  
**Ph:(770) 449-8800**

Xenco-Houston (EPA Lab Code: TX00122):  
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)  
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):  
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)  
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)  
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)  
Xenco-Carlsbad (LELAP): Louisiana (05092)  
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)  
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Tampa: Florida (E87429), North Carolina (483)

07.21.2020

Project Manager: **Jamie Cox**  
**Spectrum Environmental Services**  
85 Spectrum Cove  
Alabaster, AL 35007

Reference: Eurofins Xenco, LLC Report No(s): **667009**  
**Wauhoma Project**  
Project Address: Alabaster, AL

**Jamie Cox:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 667009. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 667009 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



---

**John Andros**  
Lab Manager

*A Small Business and Minority Company*

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

## CASE NARRATIVE

*Client Name: Spectrum Environmental Services*

*Project Name: Wauhoma Project*

Project ID: 3357-002  
Work Order Number(s): 667009

Report Date: 07.21.2020  
Date Received: 07.11.2020

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**Sample receipt non conformances and comments:**

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**Sample receipt non conformances and comments per sample:**

None



# Hits Summary 667009

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id : **SB-1** Matrix : Soil % Moisture :  
 Lab Sample Id : 667009-001 Date Collected : 07.09.2020 09:40 Basis : Wet Weight  
 Sample Depth : 16 ft Date Received : 07.11.2020 11:10

Analytical Method : Percent Moisture by SM2540G  
 Seq Number : 3131640

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	MOIST	25.3	%	07.15.2020 11:45		1

Sample Id : **SB-2** Matrix : Soil % Moisture :  
 Lab Sample Id : 667009-002 Date Collected : 07.09.2020 11:50 Basis : Wet Weight  
 Sample Depth : 18 ft Date Received : 07.11.2020 11:10

Analytical Method : Percent Moisture by SM2540G  
 Seq Number : 3131640

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	MOIST	23.3	%	07.15.2020 11:45		1

Sample Id : **SB-3** Matrix : Soil % Moisture :  
 Lab Sample Id : 667009-003 Date Collected : 07.09.2020 14:00 Basis : Wet Weight  
 Sample Depth : 16 ft Date Received : 07.11.2020 11:10

Analytical Method : Percent Moisture by SM2540G  
 Seq Number : 3131640

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Percent Moisture	MOIST	27.3	%	07.15.2020 11:45		1

Sample Id : **SB-2 GW** Matrix : Ground Water % Moisture :  
 Lab Sample Id : 667009-006 Date Collected : 07.10.2020 10:00  
 Date Received : 07.11.2020 11:10

Analytical Method : VOCs by SW-846 8260C Prep Method: SW5030B  
 Seq Number : 3131832 Date Prep: 07.15.2020 17:30

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Tetrachloroethylene	127-18-4	1.84	ug/L	07.16.2020 00:07		1

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: <b>SB-1</b>	Matrix: Soil	Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-001	Date Collected: 07.09.2020 09:40	Sample Depth: 16 ft
Analytical Method: VOCs By SW846 8260C		Prep Method: SW5035A
Tech: SAD		% Moisture: 25.34
Analyst: SAD	Date Prep: 07.17.2020 18:30	Basis: Dry Weight
Seq Number: 3132016		<b>SUB: E871002</b>

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	0.100	U	mg/kg	07.18.2020 04:19	1
Acrolein	ND	0.100	U	mg/kg	07.18.2020 04:19	1
Acrylonitrile	ND	0.0500	U	mg/kg	07.18.2020 04:19	1
Benzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromochloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromodichloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromoform	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Bromomethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
2-Butanone	ND	0.100	U	mg/kg	07.18.2020 04:19	1
tert-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Sec-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
n-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Carbon Disulfide	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Carbon Tetrachloride	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Chlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Chloroethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
Chloroform	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Chloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
2-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
4-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
p-Cymene (p-Isopropyltoluene)	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2-Dibromo-3-Chloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Dibromochloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
1,2-Dibromoethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Dibromomethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,3-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,4-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Dichlorodifluoromethane	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
1,2-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
trans-1,2-dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
cis-1,2-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
2,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,3-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
trans-1,3-dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
cis-1,3-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: <b>SB-1</b>	Matrix: Soil	Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-001	Date Collected: 07.09.2020 09:40	Sample Depth: 16 ft
Analytical Method: VOCs By SW846 8260C		Prep Method: SW5035A
Tech: SAD		% Moisture: 25.34
Analyst: SAD	Date Prep: 07.17.2020 18:30	Basis: Dry Weight
Seq Number: 3132016		<b>SUB: E871002</b>

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Hexachlorobutadiene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
2-Hexanone	ND	0.0500	U	mg/kg	07.18.2020 04:19	1
isopropylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Methylene Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
4-Methyl-2-Pentanone	ND	0.0500	U	mg/kg	07.18.2020 04:19	1
Naphthalene	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
n-Propylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Styrene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Tetrachloroethylene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Toluene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,3-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,4-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,2-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,1,1-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Trichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Trichlorofluoromethane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,3-Trichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,2,4-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
1,3,5-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
Vinyl Acetate	ND	0.0250	U	mg/kg	07.18.2020 04:19	1
Vinyl Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:19	1
o-Xylene	ND	0.00500	U	mg/kg	07.18.2020 04:19	1
m,p-Xylenes	ND	0.0100	U	mg/kg	07.18.2020 04:19	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	53-142	07.18.2020 04:19	
1,2-Dichloroethane-D4	17060-07-0	110	%	56-150	07.18.2020 04:19	
Toluene-D8	2037-26-5	92	%	70-130	07.18.2020 04:19	
4-Bromofluorobenzene	460-00-4	101	%	68-152	07.18.2020 04:19	

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: <b>SB-2</b>	Matrix: Soil	Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-002	Date Collected: 07.09.2020 11:50	Sample Depth: 18 ft
Analytical Method: VOCs By SW846 8260C		Prep Method: SW5035A
Tech: SAD		% Moisture: 23.31
Analyst: SAD	Date Prep: 07.17.2020 18:30	Basis: Dry Weight
Seq Number: 3132016		<b>SUB: E871002</b>

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	0.100	U	mg/kg	07.18.2020 04:40	1
Acrolein	ND	0.100	U	mg/kg	07.18.2020 04:40	1
Acrylonitrile	ND	0.0500	U	mg/kg	07.18.2020 04:40	1
Benzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromochloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromodichloromethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromoform	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Bromomethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
2-Butanone	ND	0.100	U	mg/kg	07.18.2020 04:40	1
tert-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Sec-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
n-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Carbon Disulfide	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Carbon Tetrachloride	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Chlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Chloroethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
Chloroform	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Chloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
2-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
4-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
p-Cymene (p-Isopropyltoluene)	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2-Dibromo-3-Chloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Dibromochloromethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
1,2-Dibromoethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Dibromomethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,3-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,4-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Dichlorodifluoromethane	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
1,2-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
trans-1,2-dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
cis-1,2-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
2,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,3-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
trans-1,3-dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
cis-1,3-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: <b>SB-2</b>	Matrix: <b>Soil</b>	Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-002	Date Collected: 07.09.2020 11:50	Sample Depth: 18 ft
Analytical Method: VOCs By SW846 8260C		Prep Method: SW5035A
Tech: <b>SAD</b>		% Moisture: 23.31
Analyst: <b>SAD</b>	Date Prep: 07.17.2020 18:30	Basis: <b>Dry Weight</b>
Seq Number: 3132016		<b>SUB: E871002</b>

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Hexachlorobutadiene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
2-Hexanone	ND	0.0500	U	mg/kg	07.18.2020 04:40	1
isopropylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Methylene Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
4-Methyl-2-Pentanone	ND	0.0500	U	mg/kg	07.18.2020 04:40	1
Naphthalene	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
n-Propylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Styrene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,2,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Tetrachloroethylene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Toluene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,3-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,4-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,2-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,1,1-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Trichloroethene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Trichlorofluoromethane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,3-Trichloropropane	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,2,4-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
1,3,5-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
Vinyl Acetate	ND	0.0250	U	mg/kg	07.18.2020 04:40	1
Vinyl Chloride	ND	0.0100	U	mg/kg	07.18.2020 04:40	1
o-Xylene	ND	0.00500	U	mg/kg	07.18.2020 04:40	1
m,p-Xylenes	ND	0.0100	U	mg/kg	07.18.2020 04:40	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	53-142	07.18.2020 04:40	
1,2-Dichloroethane-D4	17060-07-0	110	%	56-150	07.18.2020 04:40	
Toluene-D8	2037-26-5	92	%	70-130	07.18.2020 04:40	
4-Bromofluorobenzene	460-00-4	103	%	68-152	07.18.2020 04:40	

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: <b>SB-3</b>	Matrix: Soil	Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-003	Date Collected: 07.09.2020 14:00	Sample Depth: 16 ft
Analytical Method: VOCs By SW846 8260C		Prep Method: SW5035A
Tech: SAD		% Moisture: 27.28
Analyst: SAD	Date Prep: 07.17.2020 18:30	Basis: Dry Weight
Seq Number: 3132016		<b>SUB: E871002</b>

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	0.100	U	mg/kg	07.18.2020 05:01	1
Acrolein	ND	0.100	U	mg/kg	07.18.2020 05:01	1
Acrylonitrile	ND	0.0500	U	mg/kg	07.18.2020 05:01	1
Benzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromochloromethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromodichloromethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromoform	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Bromomethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
2-Butanone	ND	0.100	U	mg/kg	07.18.2020 05:01	1
tert-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Sec-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
n-Butylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Carbon Disulfide	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Carbon Tetrachloride	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Chlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Chloroethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
Chloroform	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Chloromethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
2-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
4-Chlorotoluene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
p-Cymene (p-Isopropyltoluene)	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2-Dibromo-3-Chloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Dibromochloromethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
1,2-Dibromoethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Dibromomethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,3-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,4-Dichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Dichlorodifluoromethane	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
1,2-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1-Dichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
trans-1,2-dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
cis-1,2-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1-Dichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
2,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,3-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2-Dichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
trans-1,3-dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
cis-1,3-Dichloropropene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1

Project: Wauhoma Project

# Certificate of Analytical Results 667009

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: <b>SB-3</b>	Matrix: Soil	Date Received: 07.11.2020 11:10
Lab Sample Id: 667009-003	Date Collected: 07.09.2020 14:00	Sample Depth: 16 ft
Analytical Method: VOCs By SW846 8260C		Prep Method: SW5035A
Tech: SAD		% Moisture: 27.28
Analyst: SAD	Date Prep: 07.17.2020 18:30	Basis: Dry Weight
Seq Number: 3132016		<b>SUB: E871002</b>

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Hexachlorobutadiene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
2-Hexanone	ND	0.0500	U	mg/kg	07.18.2020 05:01	1
isopropylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Methylene Chloride	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
4-Methyl-2-Pentanone	ND	0.0500	U	mg/kg	07.18.2020 05:01	1
Naphthalene	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
n-Propylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Styrene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,1,2-Tetrachloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Tetrachloroethylene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Toluene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,3-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,4-Trichlorobenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,2-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,1,1-Trichloroethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Trichloroethene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Trichlorofluoromethane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,3-Trichloropropane	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,2,4-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
1,3,5-Trimethylbenzene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
Vinyl Acetate	ND	0.0250	U	mg/kg	07.18.2020 05:01	1
Vinyl Chloride	ND	0.0100	U	mg/kg	07.18.2020 05:01	1
o-Xylene	ND	0.00500	U	mg/kg	07.18.2020 05:01	1
m,p-Xylenes	ND	0.0100	U	mg/kg	07.18.2020 05:01	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	53-142	07.18.2020 05:01	
1,2-Dichloroethane-D4	17060-07-0	107	%	56-150	07.18.2020 05:01	
Toluene-D8	2037-26-5	93	%	70-130	07.18.2020 05:01	
4-Bromofluorobenzene	460-00-4	104	%	68-152	07.18.2020 05:01	

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: **SB-1 GW**  
Lab Sample Id: 667009-004

Matrix: Ground Water  
Date Collected: 07.09.2020 10:00

Date Received: 07.11.2020 11:10

Analytical Method: VOCs by SW-846 8260C

Prep Method: SW5030B

Tech: EZA

% Moisture:

Analyst: EZA

Date Prep: 07.15.2020 17:30

Seq Number: 3131832

**SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	50.0	U	ug/L	07.15.2020 23:20	1
Acrolein	ND	25.0	U	ug/L	07.15.2020 23:20	1
Acrylonitrile	ND	25.0	U	ug/L	07.15.2020 23:20	1
Benzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromochloromethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromodichloromethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Bromoform	ND	2.00	U	ug/L	07.15.2020 23:20	1
Bromomethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
2-Butanone	ND	50.0	U	ug/L	07.15.2020 23:20	1
n-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Sec-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
tert-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Carbon Disulfide	ND	2.00	U	ug/L	07.15.2020 23:20	1
Carbon Tetrachloride	ND	1.00	U	ug/L	07.15.2020 23:20	1
Chlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Chloroethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
Chloroform	ND	1.00	U	ug/L	07.15.2020 23:20	1
Chloromethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
2-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:20	1
4-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:20	1
p-Cymene (p-Isopropyltoluene)	ND	1.00	U	ug/L	07.15.2020 23:20	1
Dibromochloromethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,2-Dibromo-3-Chloropropane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dibromoethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Dibromomethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,3-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,4-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Dichlorodifluoromethane	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,1-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
cis-1,2-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
trans-1,2-dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:20	1
1,3-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:20	1
2,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:20	1
1,1-Dichloropropene	ND	1.00	U	ug/L	07.15.2020 23:20	1
cis-1,3-Dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:20	1
trans-1,3-dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:20	1

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: **SB-1 GW**  
Lab Sample Id: 667009-004

Matrix: Ground Water  
Date Collected: 07.09.2020 10:00

Date Received: 07.11.2020 11:10

Analytical Method: VOCs by SW-846 8260C

Prep Method: SW5030B

Tech: EZA

% Moisture:

Analyst: EZA

Date Prep: 07.15.2020 17:30

Seq Number: 3131832

**SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Hexachlorobutadiene	ND	5.00	U	ug/L	07.15.2020 23:20	1
2-Hexanone	ND	25.0	U	ug/L	07.15.2020 23:20	1
isopropylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Methylene Chloride	ND	5.00	U	ug/L	07.15.2020 23:20	1
4-Methyl-2-Pentanone	ND	25.0	U	ug/L	07.15.2020 23:20	1
Naphthalene	ND	5.00	U	ug/L	07.15.2020 23:20	1
n-Propylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Styrene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1,1,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1,2,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Tetrachloroethylene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Toluene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2,3-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,2,4-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:20	1
1,1,1-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,1,2-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
Trichloroethene	ND	1.00	U	ug/L	07.15.2020 23:20	1
Trichlorofluoromethane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2,3-Trichloropropane	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,2,4-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
1,3,5-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:20	1
o-Xylene	ND	1.00	U	ug/L	07.15.2020 23:20	1
m,p-Xylenes	ND	2.00	U	ug/L	07.15.2020 23:20	1
Vinyl Acetate	ND	25.0	U	ug/L	07.15.2020 23:20	1
Vinyl Chloride	ND	1.00	U	ug/L	07.15.2020 23:20	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	75-131	07.15.2020 23:20	
1,2-Dichloroethane-D4	17060-07-0	105	%	63-144	07.15.2020 23:20	
Toluene-D8	2037-26-5	102	%	80-117	07.15.2020 23:20	
4-Bromofluorobenzene	460-00-4	104	%	74-124	07.15.2020 23:20	

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: **SB-3 GW**  
Lab Sample Id: 667009-005

Matrix: Ground Water  
Date Collected: 07.09.2020 15:00

Date Received: 07.11.2020 11:10

Analytical Method: VOCs by SW-846 8260C

Prep Method: SW5030B

Tech: EZA

% Moisture:

Analyst: EZA

Date Prep: 07.15.2020 17:30

Seq Number: 3131832

**SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	50.0	U	ug/L	07.15.2020 23:43	1
Acrolein	ND	25.0	U	ug/L	07.15.2020 23:43	1
Acrylonitrile	ND	25.0	U	ug/L	07.15.2020 23:43	1
Benzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromochloromethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromodichloromethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Bromoform	ND	2.00	U	ug/L	07.15.2020 23:43	1
Bromomethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
2-Butanone	ND	50.0	U	ug/L	07.15.2020 23:43	1
n-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Sec-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
tert-Butylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Carbon Disulfide	ND	2.00	U	ug/L	07.15.2020 23:43	1
Carbon Tetrachloride	ND	1.00	U	ug/L	07.15.2020 23:43	1
Chlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Chloroethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
Chloroform	ND	1.00	U	ug/L	07.15.2020 23:43	1
Chloromethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
2-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:43	1
4-Chlorotoluene	ND	1.00	U	ug/L	07.15.2020 23:43	1
p-Cymene (p-Isopropyltoluene)	ND	1.00	U	ug/L	07.15.2020 23:43	1
Dibromochloromethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,2-Dibromo-3-Chloropropane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dibromoethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Dibromomethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,3-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,4-Dichlorobenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Dichlorodifluoromethane	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,1-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
cis-1,2-Dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
trans-1,2-dichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:43	1
1,3-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:43	1
2,2-Dichloropropane	ND	2.00	U	ug/L	07.15.2020 23:43	1
1,1-Dichloropropene	ND	1.00	U	ug/L	07.15.2020 23:43	1
cis-1,3-Dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:43	1
trans-1,3-dichloropropene	ND	2.00	U	ug/L	07.15.2020 23:43	1

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: **SB-3 GW**  
Lab Sample Id: 667009-005

Matrix: Ground Water  
Date Collected: 07.09.2020 15:00

Date Received: 07.11.2020 11:10

Analytical Method: VOCs by SW-846 8260C

Prep Method: SW5030B

Tech: EZA

% Moisture:

Analyst: EZA

Date Prep: 07.15.2020 17:30

Seq Number: 3131832

**SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Hexachlorobutadiene	ND	5.00	U	ug/L	07.15.2020 23:43	1
2-Hexanone	ND	25.0	U	ug/L	07.15.2020 23:43	1
isopropylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Methylene Chloride	ND	5.00	U	ug/L	07.15.2020 23:43	1
4-Methyl-2-Pentanone	ND	25.0	U	ug/L	07.15.2020 23:43	1
Naphthalene	ND	5.00	U	ug/L	07.15.2020 23:43	1
n-Propylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Styrene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1,1,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1,2,2-Tetrachloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Tetrachloroethylene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Toluene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2,3-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,2,4-Trichlorobenzene	ND	5.00	U	ug/L	07.15.2020 23:43	1
1,1,1-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,1,2-Trichloroethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
Trichloroethene	ND	1.00	U	ug/L	07.15.2020 23:43	1
Trichlorofluoromethane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2,3-Trichloropropane	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,2,4-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
1,3,5-Trimethylbenzene	ND	1.00	U	ug/L	07.15.2020 23:43	1
o-Xylene	ND	1.00	U	ug/L	07.15.2020 23:43	1
m,p-Xylenes	ND	2.00	U	ug/L	07.15.2020 23:43	1
Vinyl Acetate	ND	25.0	U	ug/L	07.15.2020 23:43	1
Vinyl Chloride	ND	1.00	U	ug/L	07.15.2020 23:43	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	75-131	07.15.2020 23:43	
1,2-Dichloroethane-D4	17060-07-0	101	%	63-144	07.15.2020 23:43	
Toluene-D8	2037-26-5	96	%	80-117	07.15.2020 23:43	
4-Bromofluorobenzene	460-00-4	106	%	74-124	07.15.2020 23:43	

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: **SB-2 GW** Matrix: Ground Water Date Received: 07.11.2020 11:10  
 Lab Sample Id: 667009-006 Date Collected: 07.10.2020 10:00

Analytical Method: VOCs by SW-846 8260C Prep Method: SW5030B  
 Tech: EZA % Moisture:  
 Analyst: EZA Date Prep: 07.15.2020 17:30  
 Seq Number: 3131832 **SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Acetone	ND	50.0	U	ug/L	07.16.2020 00:07	1
Acrolein	ND	25.0	U	ug/L	07.16.2020 00:07	1
Acrylonitrile	ND	25.0	U	ug/L	07.16.2020 00:07	1
Benzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromochloromethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromodichloromethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Bromoform	ND	2.00	U	ug/L	07.16.2020 00:07	1
Bromomethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
2-Butanone	ND	50.0	U	ug/L	07.16.2020 00:07	1
n-Butylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Sec-Butylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
tert-Butylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Carbon Disulfide	ND	2.00	U	ug/L	07.16.2020 00:07	1
Carbon Tetrachloride	ND	1.00	U	ug/L	07.16.2020 00:07	1
Chlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Chloroethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
Chloroform	ND	1.00	U	ug/L	07.16.2020 00:07	1
Chloromethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
2-Chlorotoluene	ND	1.00	U	ug/L	07.16.2020 00:07	1
4-Chlorotoluene	ND	1.00	U	ug/L	07.16.2020 00:07	1
p-Cymene (p-Isopropyltoluene)	ND	1.00	U	ug/L	07.16.2020 00:07	1
Dibromochloromethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,2-Dibromo-3-Chloropropane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dibromoethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Dibromomethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dichlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,3-Dichlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,4-Dichlorobenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Dichlorodifluoromethane	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,1-Dichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1-Dichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
cis-1,2-Dichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
trans-1,2-dichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2-Dichloropropane	ND	2.00	U	ug/L	07.16.2020 00:07	1
1,3-Dichloropropane	ND	2.00	U	ug/L	07.16.2020 00:07	1
2,2-Dichloropropane	ND	2.00	U	ug/L	07.16.2020 00:07	1
1,1-Dichloropropene	ND	1.00	U	ug/L	07.16.2020 00:07	1
cis-1,3-Dichloropropene	ND	2.00	U	ug/L	07.16.2020 00:07	1
trans-1,3-dichloropropene	ND	2.00	U	ug/L	07.16.2020 00:07	1

Project: Wauhoma Project

## Spectrum Environmental Services, Alabaster, AL Wauhoma Project

Sample Id: **SB-2 GW**  
Lab Sample Id: 667009-006

Matrix: Ground Water  
Date Collected: 07.10.2020 10:00

Date Received: 07.11.2020 11:10

Analytical Method: VOCs by SW-846 8260C

Prep Method: SW5030B

Tech: EZA

% Moisture:

Analyst: EZA

Date Prep: 07.15.2020 17:30

Seq Number: 3131832

**SUB: E871002**

Parameter	Result	RL	Flag	Units	Analysis Date	Dil
Ethylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Hexachlorobutadiene	ND	5.00	U	ug/L	07.16.2020 00:07	1
2-Hexanone	ND	25.0	U	ug/L	07.16.2020 00:07	1
isopropylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Methylene Chloride	ND	5.00	U	ug/L	07.16.2020 00:07	1
4-Methyl-2-Pentanone	ND	25.0	U	ug/L	07.16.2020 00:07	1
Naphthalene	ND	5.00	U	ug/L	07.16.2020 00:07	1
n-Propylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Styrene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1,1,2-Tetrachloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1,2,2-Tetrachloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
<b>Tetrachloroethylene</b>	1.84	1.00		ug/L	07.16.2020 00:07	1
Toluene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2,3-Trichlorobenzene	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,2,4-Trichlorobenzene	ND	5.00	U	ug/L	07.16.2020 00:07	1
1,1,1-Trichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,1,2-Trichloroethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
Trichloroethene	ND	1.00	U	ug/L	07.16.2020 00:07	1
Trichlorofluoromethane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2,3-Trichloropropane	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,2,4-Trimethylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
1,3,5-Trimethylbenzene	ND	1.00	U	ug/L	07.16.2020 00:07	1
o-Xylene	ND	1.00	U	ug/L	07.16.2020 00:07	1
m,p-Xylenes	ND	2.00	U	ug/L	07.16.2020 00:07	1
Vinyl Acetate	ND	25.0	U	ug/L	07.16.2020 00:07	1
Vinyl Chloride	ND	1.00	U	ug/L	07.16.2020 00:07	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	75-131	07.16.2020 00:07	
1,2-Dichloroethane-D4	17060-07-0	104	%	63-144	07.16.2020 00:07	
Toluene-D8	2037-26-5	100	%	80-117	07.16.2020 00:07	
4-Bromofluorobenzene	460-00-4	103	%	74-124	07.16.2020 00:07	

Project: Wauhoma Project

Spectrum Environmental Services  
Wauhoma Project

**Analytical Method: Percent Moisture by SM2540G**

Seq Number: 3131640 Matrix: Solid  
MB Sample Id: 3131640-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	0.0300	%	07.15.2020 11:45	

**Analytical Method: Percent Moisture by SM2540G**

Seq Number: 3131640 Matrix: Soil  
Parent Sample Id: 666982-002 MD Sample Id: 666982-002 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	20.8	20.5	1	10	%	07.15.2020 11:45	

**Analytical Method: Percent Moisture by SM2540G**

Seq Number: 3131640 Matrix: Soil  
Parent Sample Id: 666982-006 MD Sample Id: 666982-006 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	18.7	18.6	1	10	%	07.15.2020 11:45	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Spectrum Environmental Services

Wauhoma Project

Analytical Method: VOCs By SW846 8260C

Seq Number: 3132016

MB Sample Id: 7707610-1-BLK

Matrix: Solid

LCS Sample Id: 7707610-1-BKS

Prep Method: SW5035A

Date Prep: 07.17.2020

LCSD Sample Id: 7707610-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<0.0111	0.250	0.306	122	0.283	113	50-150	8	25	mg/kg	07.17.2020 18:44	
Acrolein	<0.0396	0.250	0.252	101	0.229	92	50-150	10	25	mg/kg	07.17.2020 18:44	
Acrylonitrile	<0.00287	0.250	0.240	96	0.233	93	50-150	3	25	mg/kg	07.17.2020 18:44	
Benzene	<0.000207	0.0500	0.0516	103	0.0491	98	66-142	5	25	mg/kg	07.17.2020 18:44	
Bromobenzene	<0.000346	0.0500	0.0501	100	0.0471	94	75-125	6	25	mg/kg	07.17.2020 18:44	
Bromochloromethane	<0.000526	0.0500	0.0494	99	0.0453	91	60-140	9	25	mg/kg	07.17.2020 18:44	
Bromodichloromethane	<0.000251	0.0500	0.0519	104	0.0491	98	75-125	6	25	mg/kg	07.17.2020 18:44	
Bromoform	<0.00103	0.0500	0.0489	98	0.0472	94	75-125	4	25	mg/kg	07.17.2020 18:44	
Bromomethane	<0.000943	0.0500	0.0499	100	0.0506	101	60-140	1	25	mg/kg	07.17.2020 18:44	
2-Butanone	<0.00365	0.250	0.265	106	0.249	100	75-125	6	25	mg/kg	07.17.2020 18:44	
tert-Butylbenzene	<0.00128	0.0500	0.0530	106	0.0516	103	75-125	3	25	mg/kg	07.17.2020 18:44	
Sec-Butylbenzene	<0.000261	0.0500	0.0536	107	0.0523	105	75-125	2	25	mg/kg	07.17.2020 18:44	
n-Butylbenzene	<0.000274	0.0500	0.0524	105	0.0515	103	75-125	2	25	mg/kg	07.17.2020 18:44	
Carbon Disulfide	<0.000292	0.0500	0.0525	105	0.0496	99	60-140	6	25	mg/kg	07.17.2020 18:44	
Carbon Tetrachloride	<0.00164	0.0500	0.0576	115	0.0561	112	62-125	3	25	mg/kg	07.17.2020 18:44	
Chlorobenzene	<0.000237	0.0500	0.0506	101	0.0487	97	60-133	4	25	mg/kg	07.17.2020 18:44	
Chloroethane	<0.000444	0.0500	0.0510	102	0.0485	97	60-140	5	25	mg/kg	07.17.2020 18:44	
Chloroform	<0.000173	0.0500	0.0520	104	0.0494	99	74-125	5	25	mg/kg	07.17.2020 18:44	
Chloromethane	<0.000431	0.0500	0.0464	93	0.0437	87	60-140	6	25	mg/kg	07.17.2020 18:44	
2-Chlorotoluene	<0.000342	0.0500	0.0511	102	0.0490	98	73-125	4	25	mg/kg	07.17.2020 18:44	
4-Chlorotoluene	<0.000264	0.0500	0.0519	104	0.0497	99	74-125	4	25	mg/kg	07.17.2020 18:44	
p-Cymene (p-Isopropyltoluene)	<0.000319	0.0500	0.0523	105	0.0513	103	75-125	2	25	mg/kg	07.17.2020 18:44	
1,2-Dibromo-3-Chloropropane	<0.000704	0.0500	0.0492	98	0.0477	95	59-125	3	25	mg/kg	07.17.2020 18:44	
Dibromochloromethane	<0.000895	0.0500	0.0519	104	0.0487	97	73-125	6	25	mg/kg	07.17.2020 18:44	
1,2-Dibromoethane	<0.00104	0.0500	0.0520	104	0.0492	98	73-125	6	25	mg/kg	07.17.2020 18:44	
Dibromomethane	<0.000371	0.0500	0.0467	93	0.0450	90	69-127	4	25	mg/kg	07.17.2020 18:44	
1,2-Dichlorobenzene	<0.000288	0.0500	0.0510	102	0.0489	98	75-125	4	25	mg/kg	07.17.2020 18:44	
1,3-Dichlorobenzene	<0.000273	0.0500	0.0511	102	0.0491	98	75-125	4	25	mg/kg	07.17.2020 18:44	
1,4-Dichlorobenzene	<0.000214	0.0500	0.0505	101	0.0489	98	75-125	3	25	mg/kg	07.17.2020 18:44	
Dichlorodifluoromethane	<0.00111	0.0500	0.0488	98	0.0476	95	65-135	2	25	mg/kg	07.17.2020 18:44	
1,2-Dichloroethane	<0.000304	0.0500	0.0508	102	0.0478	96	68-127	6	25	mg/kg	07.17.2020 18:44	
1,1-Dichloroethane	<0.000376	0.0500	0.0530	106	0.0504	101	72-125	5	25	mg/kg	07.17.2020 18:44	
trans-1,2-dichloroethene	<0.000434	0.0500	0.0542	108	0.0515	103	75-125	5	25	mg/kg	07.17.2020 18:44	
cis-1,2-Dichloroethene	<0.000301	0.0500	0.0524	105	0.0489	98	75-125	7	25	mg/kg	07.17.2020 18:44	
1,1-Dichloroethene	<0.000277	0.0500	0.0533	107	0.0513	103	59-172	4	25	mg/kg	07.17.2020 18:44	
2,2-Dichloropropane	<0.000524	0.0500	0.0576	115	0.0550	110	75-125	5	25	mg/kg	07.17.2020 18:44	
1,3-Dichloropropane	<0.000409	0.0500	0.0530	106	0.0500	100	75-125	6	25	mg/kg	07.17.2020 18:44	
1,2-Dichloropropane	<0.000198	0.0500	0.0522	104	0.0494	99	74-125	6	25	mg/kg	07.17.2020 18:44	
trans-1,3-dichloropropene	<0.000909	0.0500	0.0513	103	0.0497	99	66-125	3	25	mg/kg	07.17.2020 18:44	
1,1-Dichloropropene	<0.000448	0.0500	0.0572	114	0.0558	112	75-125	2	25	mg/kg	07.17.2020 18:44	
cis-1,3-Dichloropropene	<0.000230	0.0500	0.0515	103	0.0481	96	74-125	7	25	mg/kg	07.17.2020 18:44	
Ethylbenzene	<0.000336	0.0500	0.0525	105	0.0502	100	75-125	4	25	mg/kg	07.17.2020 18:44	
Hexachlorobutadiene	<0.00200	0.0500	0.0548	110	0.0547	109	75-125	0	25	mg/kg	07.17.2020 18:44	
2-Hexanone	0.00378	0.250	0.253	101	0.250	100	75-125	1	25	mg/kg	07.17.2020 18:44	
isopropylbenzene	<0.000174	0.0500	0.0534	107	0.0515	103	75-125	4	25	mg/kg	07.17.2020 18:44	
Methylene Chloride	<0.00422	0.0500	0.0501	100	0.0471	94	75-125	6	25	mg/kg	07.17.2020 18:44	
4-Methyl-2-Pentanone	0.00369	0.250	0.240	96	0.239	96	60-140	0	25	mg/kg	07.17.2020 18:44	
Naphthalene	<0.00200	0.0500	0.0517	103	0.0522	104	70-130	1	25	mg/kg	07.17.2020 18:44	
n-Propylbenzene	<0.000286	0.0500	0.0527	105	0.0507	101	75-125	4	25	mg/kg	07.17.2020 18:44	
Styrene	<0.000205	0.0500	0.0540	108	0.0503	101	75-125	7	25	mg/kg	07.17.2020 18:44	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Spectrum Environmental Services  
Wauhoma Project

Analytical Method: VOCs By SW846 8260C

Seq Number: 3132016

MB Sample Id: 7707610-1-BLK

Matrix: Solid

LCS Sample Id: 7707610-1-BKS

Prep Method: SW5035A

Date Prep: 07.17.2020

LCSD Sample Id: 7707610-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<0.000267	0.0500	0.0524	105	0.0497	99	72-125	5	25	mg/kg	07.17.2020 18:44	
1,1,2,2-Tetrachloroethane	<0.000470	0.0500	0.0491	98	0.0471	94	74-125	4	25	mg/kg	07.17.2020 18:44	
Tetrachloroethylene	<0.000370	0.0500	0.0532	106	0.0514	103	71-125	3	25	mg/kg	07.17.2020 18:44	
Toluene	<0.00100	0.0500	0.0521	104	0.0499	100	59-139	4	25	mg/kg	07.17.2020 18:44	
1,2,3-Trichlorobenzene	<0.00200	0.0500	0.0557	111	0.0550	110	75-137	1	25	mg/kg	07.17.2020 18:44	
1,2,4-Trichlorobenzene	<0.00200	0.0500	0.0565	113	0.0545	109	75-135	4	25	mg/kg	07.17.2020 18:44	
1,1,2-Trichloroethane	<0.000392	0.0500	0.0537	107	0.0508	102	75-127	6	25	mg/kg	07.17.2020 18:44	
1,1,1-Trichloroethane	<0.000503	0.0500	0.0564	113	0.0542	108	75-125	4	25	mg/kg	07.17.2020 18:44	
Trichloroethene	<0.000494	0.0500	0.0530	106	0.0515	103	62-137	3	25	mg/kg	07.17.2020 18:44	
Trichlorofluoromethane	<0.000307	0.0500	0.0531	106	0.0513	103	67-125	3	25	mg/kg	07.17.2020 18:44	
1,2,3-Trichloropropane	<0.000450	0.0500	0.0522	104	0.0507	101	75-125	3	25	mg/kg	07.17.2020 18:44	
1,2,4-Trimethylbenzene	<0.000255	0.0500	0.0489	98	0.0477	95	75-125	2	25	mg/kg	07.17.2020 18:44	
1,3,5-Trimethylbenzene	<0.000289	0.0500	0.0509	102	0.0490	98	70-130	4	25	mg/kg	07.17.2020 18:44	
Vinyl Acetate	<0.00256	0.250	0.277	111	0.268	107	60-140	3	25	mg/kg	07.17.2020 18:44	
Vinyl Chloride	<0.000441	0.0500	0.0517	103	0.0494	99	60-140	5	25	mg/kg	07.17.2020 18:44	
o-Xylene	<0.000985	0.0500	0.0524	105	0.0497	99	75-125	5	25	mg/kg	07.17.2020 18:44	
m,p-Xylenes	<0.000800	0.100	0.105	105	0.102	102	75-125	3	25	mg/kg	07.17.2020 18:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	92		103		100		53-142	%	07.17.2020 18:44
1,2-Dichloroethane-D4	103		103		96		56-150	%	07.17.2020 18:44
Toluene-D8	98		102		101		70-130	%	07.17.2020 18:44
4-Bromofluorobenzene	105		100		99		68-152	%	07.17.2020 18:44

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. =  $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec

Spectrum Environmental Services

Wauhoma Project

Analytical Method: VOCs By SW846 8260C

Seq Number: 3132016

Parent Sample Id: 666905-005

Matrix: Soil

MS Sample Id: 666905-005 S

Prep Method: SW5035A

Date Prep: 07.17.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<0.0107	0.242	0.0721	30	50-150	mg/kg	07.17.2020 19:26	X
Acrolein	<0.0383	0.242	0.0630	26	50-150	mg/kg	07.17.2020 19:26	X
Acrylonitrile	<0.00278	0.242	0.0583	24	50-150	mg/kg	07.17.2020 19:26	X
Benzene	<0.000200	0.0484	0.0322	67	66-142	mg/kg	07.17.2020 19:26	
Bromobenzene	<0.000335	0.0484	0.0224	46	75-125	mg/kg	07.17.2020 19:26	X
Bromochloromethane	<0.000509	0.0484	0.0217	45	60-140	mg/kg	07.17.2020 19:26	X
Bromodichloromethane	<0.000243	0.0484	0.0238	49	75-125	mg/kg	07.17.2020 19:26	X
Bromoform	<0.00100	0.0484	0.0137	28	75-125	mg/kg	07.17.2020 19:26	X
Bromomethane	<0.000913	0.0484	0.0353	73	60-140	mg/kg	07.17.2020 19:26	
2-Butanone	<0.00353	0.242	0.0704	29	75-125	mg/kg	07.17.2020 19:26	X
tert-Butylbenzene	<0.00124	0.0484	0.0349	72	75-125	mg/kg	07.17.2020 19:26	X
Sec-Butylbenzene	<0.000253	0.0484	0.0365	75	75-125	mg/kg	07.17.2020 19:26	
n-Butylbenzene	<0.000265	0.0484	0.0351	73	75-125	mg/kg	07.17.2020 19:26	X
Carbon Disulfide	<0.000283	0.0484	0.0412	85	60-140	mg/kg	07.17.2020 19:26	
Carbon Tetrachloride	<0.00159	0.0484	0.0448	93	62-125	mg/kg	07.17.2020 19:26	
Chlorobenzene	<0.000229	0.0484	0.0273	56	60-133	mg/kg	07.17.2020 19:26	X
Chloroethane	<0.000430	0.0484	0.0383	79	60-140	mg/kg	07.17.2020 19:26	
Chloroform	<0.000167	0.0484	0.0315	65	74-125	mg/kg	07.17.2020 19:26	X
Chloromethane	<0.000417	0.0484	0.0341	70	60-140	mg/kg	07.17.2020 19:26	
2-Chlorotoluene	<0.000331	0.0484	0.0297	61	73-125	mg/kg	07.17.2020 19:26	X
4-Chlorotoluene	<0.000255	0.0484	0.0284	59	74-125	mg/kg	07.17.2020 19:26	X
p-Cymene (p-Isopropyltoluene)	<0.000308	0.0484	0.0345	71	75-125	mg/kg	07.17.2020 19:26	X
1,2-Dibromo-3-Chloropropane	<0.000682	0.0484	0.0122	25	59-125	mg/kg	07.17.2020 19:26	X
Dibromochloromethane	<0.000866	0.0484	0.0177	37	73-125	mg/kg	07.17.2020 19:26	X
1,2-Dibromoethane	<0.00101	0.0484	0.0153	32	73-125	mg/kg	07.17.2020 19:26	X
Dibromomethane	<0.000359	0.0484	0.0173	36	69-127	mg/kg	07.17.2020 19:26	X
1,2-Dichlorobenzene	<0.000279	0.0484	0.0224	46	75-125	mg/kg	07.17.2020 19:26	X
1,3-Dichlorobenzene	<0.000264	0.0484	0.0251	52	75-125	mg/kg	07.17.2020 19:26	X
1,4-Dichlorobenzene	<0.000208	0.0484	0.0241	50	75-125	mg/kg	07.17.2020 19:26	X
Dichlorodifluoromethane	<0.00108	0.0484	0.0425	88	65-135	mg/kg	07.17.2020 19:26	
1,2-Dichloroethane	<0.000294	0.0484	0.0207	43	68-127	mg/kg	07.17.2020 19:26	X
1,1-Dichloroethane	<0.000364	0.0484	0.0353	73	72-125	mg/kg	07.17.2020 19:26	
trans-1,2-dichloroethene	<0.000420	0.0484	0.0388	80	75-125	mg/kg	07.17.2020 19:26	
cis-1,2-Dichloroethene	<0.000291	0.0484	0.0312	64	75-125	mg/kg	07.17.2020 19:26	X
1,1-Dichloroethene	<0.000268	0.0484	0.0427	88	59-172	mg/kg	07.17.2020 19:26	
2,2-Dichloropropane	<0.000508	0.0484	0.0424	88	75-125	mg/kg	07.17.2020 19:26	
1,3-Dichloropropane	<0.000396	0.0484	0.0170	35	75-125	mg/kg	07.17.2020 19:26	X
1,2-Dichloropropane	<0.000192	0.0484	0.0265	55	74-125	mg/kg	07.17.2020 19:26	X
trans-1,3-dichloropropene	<0.000881	0.0484	0.0174	36	66-125	mg/kg	07.17.2020 19:26	X
1,1-Dichloropropene	<0.000434	0.0484	0.0419	87	75-125	mg/kg	07.17.2020 19:26	
cis-1,3-Dichloropropene	<0.000222	0.0484	0.0220	45	74-125	mg/kg	07.17.2020 19:26	X
Ethylbenzene	<0.000325	0.0484	0.0327	68	75-125	mg/kg	07.17.2020 19:26	X
Hexachlorobutadiene	<0.00194	0.0484	0.0370	76	75-125	mg/kg	07.17.2020 19:26	
2-Hexanone	0.00362	0.242	0.0750	29	75-125	mg/kg	07.17.2020 19:26	X
isopropylbenzene	<0.000168	0.0484	0.0351	73	75-125	mg/kg	07.17.2020 19:26	X
Methylene Chloride	<0.00409	0.0484	0.0225	46	75-125	mg/kg	07.17.2020 19:26	X
4-Methyl-2-Pentanone	0.00415	0.242	0.0704	27	60-140	mg/kg	07.17.2020 19:26	X
Naphthalene	<0.00194	0.0484	0.0185	38	70-130	mg/kg	07.17.2020 19:26	X
n-Propylbenzene	<0.000277	0.0484	0.0346	71	75-125	mg/kg	07.17.2020 19:26	X
Styrene	<0.000199	0.0484	0.0269	56	75-125	mg/kg	07.17.2020 19:26	X

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Spectrum Environmental Services  
Wauhoma Project

Analytical Method: VOCs By SW846 8260C

Seq Number: 3132016

Parent Sample Id: 666905-005

Matrix: Soil

MS Sample Id: 666905-005 S

Prep Method: SW5035A

Date Prep: 07.17.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<0.000258	0.0484	0.0237	49	72-125	mg/kg	07.17.2020 19:26	X
1,1,2,2-Tetrachloroethane	<0.000455	0.0484	0.0119	25	74-125	mg/kg	07.17.2020 19:26	X
Tetrachloroethylene	<0.000358	0.0484	0.0364	75	71-125	mg/kg	07.17.2020 19:26	
Toluene	<0.000968	0.0484	0.0316	65	59-139	mg/kg	07.17.2020 19:26	
1,2,3-Trichlorobenzene	<0.00194	0.0484	0.0230	48	75-137	mg/kg	07.17.2020 19:26	X
1,2,4-Trichlorobenzene	<0.00194	0.0484	0.0242	50	75-135	mg/kg	07.17.2020 19:26	X
1,1,2-Trichloroethane	<0.000380	0.0484	0.0165	34	75-127	mg/kg	07.17.2020 19:26	X
1,1,1-Trichloroethane	<0.000487	0.0484	0.0427	88	75-125	mg/kg	07.17.2020 19:26	
Trichloroethene	<0.000478	0.0484	0.0360	74	62-137	mg/kg	07.17.2020 19:26	
Trichlorofluoromethane	<0.000298	0.0484	0.0454	94	67-125	mg/kg	07.17.2020 19:26	
1,2,3-Trichloropropane	<0.000435	0.0484	0.0136	28	75-125	mg/kg	07.17.2020 19:26	X
1,2,4-Trimethylbenzene	<0.000247	0.0484	0.0274	57	75-125	mg/kg	07.17.2020 19:26	X
1,3,5-Trimethylbenzene	<0.000280	0.0484	0.0307	63	70-130	mg/kg	07.17.2020 19:26	X
Vinyl Acetate	<0.00248	0.242	0.0777	32	60-140	mg/kg	07.17.2020 19:26	X
Vinyl Chloride	<0.000427	0.0484	0.0421	87	60-140	mg/kg	07.17.2020 19:26	
o-Xylene	<0.000954	0.0484	0.0295	61	75-125	mg/kg	07.17.2020 19:26	X
m,p-Xylenes	<0.000775	0.0968	0.0651	67	75-125	mg/kg	07.17.2020 19:26	X

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	113		53-142	%	07.17.2020 19:26
1,2-Dichloroethane-D4	116		56-150	%	07.17.2020 19:26
Toluene-D8	98		70-130	%	07.17.2020 19:26
4-Bromofluorobenzene	100		68-152	%	07.17.2020 19:26

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. =  $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec

Spectrum Environmental Services

Wauhoma Project

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3131832

MB Sample Id: 7707490-1-BLK

Matrix: Water

LCS Sample Id: 7707490-1-BKS

Prep Method: SW5030B

Date Prep: 07.15.2020

LCSD Sample Id: 7707490-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Acetone	<50.0	250	242	97	248	99	60-140	2	25	ug/L	07.15.2020 18:13	
Acrolein	<25.0	250	273	109	274	110	50-150	0	25	ug/L	07.15.2020 18:13	
Acrylonitrile	<25.0	250	258	103	260	104	50-150	1	25	ug/L	07.15.2020 18:13	
Benzene	<1.00	50.0	49.2	98	51.3	103	66-142	4	25	ug/L	07.15.2020 18:13	
Bromobenzene	<1.00	50.0	47.6	95	51.1	102	75-125	7	25	ug/L	07.15.2020 18:13	
Bromochloromethane	<1.00	50.0	46.1	92	48.5	97	60-140	5	25	ug/L	07.15.2020 18:13	
Bromodichloromethane	<1.00	50.0	50.2	100	53.0	106	75-125	5	25	ug/L	07.15.2020 18:13	
Bromoform	<2.00	50.0	50.5	101	53.5	107	75-125	6	25	ug/L	07.15.2020 18:13	
Bromomethane	<5.00	50.0	41.5	83	43.4	87	60-140	4	25	ug/L	07.15.2020 18:13	
2-Butanone	<50.0	250	271	108	278	111	60-140	3	25	ug/L	07.15.2020 18:13	
n-Butylbenzene	<1.00	50.0	49.0	98	53.1	106	75-125	8	25	ug/L	07.15.2020 18:13	
Sec-Butylbenzene	<1.00	50.0	49.4	99	53.5	107	75-125	8	25	ug/L	07.15.2020 18:13	
tert-Butylbenzene	<1.00	50.0	49.4	99	53.6	107	75-125	8	25	ug/L	07.15.2020 18:13	
Carbon Disulfide	<2.00	50.0	40.7	81	41.5	83	60-140	2	25	ug/L	07.15.2020 18:13	
Carbon Tetrachloride	<1.00	50.0	49.6	99	50.6	101	62-125	2	25	ug/L	07.15.2020 18:13	
Chlorobenzene	<1.00	50.0	48.8	98	51.8	104	60-133	6	25	ug/L	07.15.2020 18:13	
Chloroethane	<5.00	50.0	49.0	98	50.6	101	60-140	3	25	ug/L	07.15.2020 18:13	
Chloroform	<1.00	50.0	47.9	96	49.7	99	70-130	4	25	ug/L	07.15.2020 18:13	
Chloromethane	<5.00	50.0	46.4	93	48.0	96	60-140	3	25	ug/L	07.15.2020 18:13	
2-Chlorotoluene	<1.00	50.0	47.9	96	51.5	103	73-125	7	25	ug/L	07.15.2020 18:13	
4-Chlorotoluene	<1.00	50.0	47.6	95	51.1	102	74-125	7	25	ug/L	07.15.2020 18:13	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	49.1	98	53.6	107	75-125	9	25	ug/L	07.15.2020 18:13	
Dibromochloromethane	<5.00	50.0	50.5	101	54.0	108	73-125	7	25	ug/L	07.15.2020 18:13	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.8	94	48.3	97	59-125	3	25	ug/L	07.15.2020 18:13	
1,2-Dibromoethane	<1.00	50.0	49.8	100	52.5	105	73-125	5	25	ug/L	07.15.2020 18:13	
Dibromomethane	<1.00	50.0	48.5	97	50.8	102	69-127	5	25	ug/L	07.15.2020 18:13	
1,2-Dichlorobenzene	<1.00	50.0	46.8	94	51.9	104	75-125	10	25	ug/L	07.15.2020 18:13	
1,3-Dichlorobenzene	<1.00	50.0	47.0	94	51.0	102	75-125	8	25	ug/L	07.15.2020 18:13	
1,4-Dichlorobenzene	<1.00	50.0	46.6	93	50.5	101	75-125	8	25	ug/L	07.15.2020 18:13	
Dichlorodifluoromethane	<5.00	50.0	56.5	113	55.9	112	60-140	1	25	ug/L	07.15.2020 18:13	
1,1-Dichloroethane	<1.00	50.0	48.7	97	49.9	100	72-125	2	25	ug/L	07.15.2020 18:13	
1,2-Dichloroethane	<1.00	50.0	47.8	96	49.8	100	68-127	4	25	ug/L	07.15.2020 18:13	
1,1-Dichloroethene	<1.00	50.0	47.8	96	48.6	97	59-172	2	25	ug/L	07.15.2020 18:13	
cis-1,2-Dichloroethene	<1.00	50.0	48.5	97	50.4	101	75-125	4	25	ug/L	07.15.2020 18:13	
trans-1,2-dichloroethene	<1.00	50.0	46.8	94	48.5	97	75-125	4	25	ug/L	07.15.2020 18:13	
1,2-Dichloropropane	<2.00	50.0	51.3	103	54.6	109	74-125	6	25	ug/L	07.15.2020 18:13	
1,3-Dichloropropane	<2.00	50.0	51.1	102	54.6	109	75-125	7	25	ug/L	07.15.2020 18:13	
2,2-Dichloropropane	<2.00	50.0	52.2	104	53.0	106	75-125	2	25	ug/L	07.15.2020 18:13	
1,1-Dichloropropene	<1.00	50.0	50.2	100	50.8	102	75-125	1	25	ug/L	07.15.2020 18:13	
cis-1,3-Dichloropropene	<2.00	50.0	52.8	106	55.8	112	74-125	6	25	ug/L	07.15.2020 18:13	
trans-1,3-dichloropropene	<2.00	50.0	51.1	102	54.4	109	66-125	6	25	ug/L	07.15.2020 18:13	
Ethylbenzene	<1.00	50.0	49.4	99	52.2	104	75-125	6	25	ug/L	07.15.2020 18:13	
Hexachlorobutadiene	<5.00	50.0	49.9	100	55.2	110	75-125	10	25	ug/L	07.15.2020 18:13	
2-Hexanone	<25.0	250	250	100	266	106	60-140	6	25	ug/L	07.15.2020 18:13	
isopropylbenzene	<1.00	50.0	51.5	103	54.6	109	75-125	6	25	ug/L	07.15.2020 18:13	
Methylene Chloride	<5.00	50.0	46.3	93	48.2	96	75-125	4	25	ug/L	07.15.2020 18:13	
4-Methyl-2-Pentanone	<25.0	250	265	106	273	109	60-140	3	25	ug/L	07.15.2020 18:13	
Naphthalene	<5.00	50.0	54.3	109	60.4	121	70-130	11	25	ug/L	07.15.2020 18:13	
n-Propylbenzene	<1.00	50.0	48.8	98	52.6	105	75-125	7	25	ug/L	07.15.2020 18:13	
Styrene	<1.00	50.0	50.5	101	53.9	108	75-125	7	25	ug/L	07.15.2020 18:13	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Spectrum Environmental Services  
Wauhoma Project

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3131832

MB Sample Id: 7707490-1-BLK

Matrix: Water

LCS Sample Id: 7707490-1-BKS

Prep Method: SW5030B

Date Prep: 07.15.2020

LCSD Sample Id: 7707490-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<1.00	50.0	51.3	103	53.6	107	72-125	4	25	ug/L	07.15.2020 18:13	
1,1,2,2-Tetrachloroethane	<1.00	50.0	49.1	98	52.6	105	74-125	7	25	ug/L	07.15.2020 18:13	
Tetrachloroethylene	<1.00	50.0	48.2	96	50.6	101	71-125	5	25	ug/L	07.15.2020 18:13	
Toluene	<1.00	50.0	47.8	96	50.6	101	59-139	6	25	ug/L	07.15.2020 18:13	
1,2,3-Trichlorobenzene	<5.00	50.0	53.5	107	60.5	121	75-137	12	25	ug/L	07.15.2020 18:13	
1,2,4-Trichlorobenzene	<5.00	50.0	51.0	102	56.6	113	75-135	10	25	ug/L	07.15.2020 18:13	
1,1,1-Trichloroethane	<1.00	50.0	49.8	100	51.0	102	75-125	2	25	ug/L	07.15.2020 18:13	
1,1,2-Trichloroethane	<1.00	50.0	51.3	103	53.6	107	75-127	4	25	ug/L	07.15.2020 18:13	
Trichloroethene	<1.00	50.0	50.1	100	52.3	105	62-137	4	25	ug/L	07.15.2020 18:13	
Trichlorofluoromethane	<1.00	50.0	50.8	102	50.7	101	60-140	0	25	ug/L	07.15.2020 18:13	
1,2,3-Trichloropropane	<1.00	50.0	48.0	96	51.3	103	75-125	7	25	ug/L	07.15.2020 18:13	
1,2,4-Trimethylbenzene	<1.00	50.0	47.7	95	52.0	104	75-125	9	25	ug/L	07.15.2020 18:13	
1,3,5-Trimethylbenzene	<1.00	50.0	48.4	97	51.8	104	70-125	7	25	ug/L	07.15.2020 18:13	
o-Xylene	<1.00	50.0	49.2	98	52.6	105	75-125	7	25	ug/L	07.15.2020 18:13	
m,p-Xylenes	<2.00	100	97.6	98	104	104	75-125	6	25	ug/L	07.15.2020 18:13	
Vinyl Acetate	<25.0	250	281	112	292	117	60-140	4	25	ug/L	07.15.2020 18:13	
Vinyl Chloride	<1.00	50.0	49.1	98	48.9	98	60-140	0	25	ug/L	07.15.2020 18:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		96		95		75-131	%	07.15.2020 18:13
1,2-Dichloroethane-D4	103		100		98		63-144	%	07.15.2020 18:13
Toluene-D8	99		99		99		80-117	%	07.15.2020 18:13
4-Bromofluorobenzene	102		97		99		74-124	%	07.15.2020 18:13

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* |(C-E) / (C+E)|  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Spectrum Environmental Services

Wauhoma Project

Analytical Method: VOCs by SW-846 8260C

Seq Number: 3131832

Parent Sample Id: 666982-010

Matrix: Ground Water

MS Sample Id: 666982-010 S

Prep Method: SW5030B

Date Prep: 07.15.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Acetone	<50.0	250	192	77	60-140	ug/L	07.15.2020 19:00	
Acrolein	<25.0	250	327	131	50-150	ug/L	07.15.2020 19:00	
Acrylonitrile	<25.0	250	251	100	50-150	ug/L	07.15.2020 19:00	
Benzene	<1.00	50.0	45.1	90	66-142	ug/L	07.15.2020 19:00	
Bromobenzene	<1.00	50.0	45.2	90	75-125	ug/L	07.15.2020 19:00	
Bromochloromethane	<1.00	50.0	42.9	86	60-140	ug/L	07.15.2020 19:00	
Bromodichloromethane	<1.00	50.0	45.5	91	75-125	ug/L	07.15.2020 19:00	
Bromoform	<2.00	50.0	48.8	98	75-125	ug/L	07.15.2020 19:00	
Bromomethane	<5.00	50.0	38.5	77	60-140	ug/L	07.15.2020 19:00	
2-Butanone	<50.0	250	244	98	60-140	ug/L	07.15.2020 19:00	
n-Butylbenzene	<1.00	50.0	46.7	93	75-125	ug/L	07.15.2020 19:00	
Sec-Butylbenzene	<1.00	50.0	47.1	94	75-125	ug/L	07.15.2020 19:00	
tert-Butylbenzene	<1.00	50.0	47.4	95	75-125	ug/L	07.15.2020 19:00	
Carbon Disulfide	<2.00	50.0	37.6	75	60-140	ug/L	07.15.2020 19:00	
Carbon Tetrachloride	<1.00	50.0	46.3	93	62-125	ug/L	07.15.2020 19:00	
Chlorobenzene	<1.00	50.0	45.0	90	60-133	ug/L	07.15.2020 19:00	
Chloroethane	<5.00	50.0	46.0	92	60-140	ug/L	07.15.2020 19:00	
Chloroform	<1.00	50.0	44.0	88	70-130	ug/L	07.15.2020 19:00	
Chloromethane	<5.00	50.0	43.9	88	60-140	ug/L	07.15.2020 19:00	
2-Chlorotoluene	<1.00	50.0	44.8	90	73-125	ug/L	07.15.2020 19:00	
4-Chlorotoluene	<1.00	50.0	44.5	89	74-125	ug/L	07.15.2020 19:00	
p-Cymene (p-Isopropyltoluene)	<1.00	50.0	46.4	93	75-125	ug/L	07.15.2020 19:00	
Dibromochloromethane	<5.00	50.0	47.5	95	73-125	ug/L	07.15.2020 19:00	
1,2-Dibromo-3-Chloropropane	<1.00	50.0	46.6	93	59-125	ug/L	07.15.2020 19:00	
1,2-Dibromoethane	<1.00	50.0	47.3	95	73-125	ug/L	07.15.2020 19:00	
Dibromomethane	<1.00	50.0	44.4	89	69-127	ug/L	07.15.2020 19:00	
1,2-Dichlorobenzene	<1.00	50.0	45.5	91	75-125	ug/L	07.15.2020 19:00	
1,3-Dichlorobenzene	<1.00	50.0	44.4	89	75-125	ug/L	07.15.2020 19:00	
1,4-Dichlorobenzene	<1.00	50.0	43.9	88	75-125	ug/L	07.15.2020 19:00	
Dichlorodifluoromethane	<5.00	50.0	51.7	103	60-140	ug/L	07.15.2020 19:00	
1,1-Dichloroethane	<1.00	50.0	44.0	88	72-125	ug/L	07.15.2020 19:00	
1,2-Dichloroethane	<1.00	50.0	43.2	86	68-127	ug/L	07.15.2020 19:00	
1,1-Dichloroethene	<1.00	50.0	44.0	88	59-172	ug/L	07.15.2020 19:00	
cis-1,2-Dichloroethene	<1.00	50.0	44.6	89	75-125	ug/L	07.15.2020 19:00	
trans-1,2-dichloroethene	<1.00	50.0	43.3	87	75-125	ug/L	07.15.2020 19:00	
1,2-Dichloropropane	<2.00	50.0	46.5	93	74-125	ug/L	07.15.2020 19:00	
1,3-Dichloropropane	<2.00	50.0	48.2	96	75-125	ug/L	07.15.2020 19:00	
2,2-Dichloropropane	<2.00	50.0	48.4	97	75-125	ug/L	07.15.2020 19:00	
1,1-Dichloropropene	<1.00	50.0	46.2	92	75-125	ug/L	07.15.2020 19:00	
cis-1,3-Dichloropropene	<2.00	50.0	47.9	96	74-125	ug/L	07.15.2020 19:00	
trans-1,3-dichloropropene	<2.00	50.0	47.1	94	66-125	ug/L	07.15.2020 19:00	
Ethylbenzene	<1.00	50.0	46.1	92	75-125	ug/L	07.15.2020 19:00	
Hexachlorobutadiene	<5.00	50.0	49.2	98	75-125	ug/L	07.15.2020 19:00	
2-Hexanone	<25.0	250	238	95	60-140	ug/L	07.15.2020 19:00	
isopropylbenzene	<1.00	50.0	47.7	95	75-125	ug/L	07.15.2020 19:00	
Methylene Chloride	<5.00	50.0	41.4	83	75-125	ug/L	07.15.2020 19:00	
4-Methyl-2-Pentanone	<25.0	250	257	103	60-140	ug/L	07.15.2020 19:00	
Naphthalene	<5.00	50.0	53.9	108	70-130	ug/L	07.15.2020 19:00	
n-Propylbenzene	<1.00	50.0	45.7	91	75-125	ug/L	07.15.2020 19:00	
Styrene	<1.00	50.0	46.1	92	75-125	ug/L	07.15.2020 19:00	

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

[D] = 100\*(C-A) / B  
RPD = 200\* | (C-E) / (C+E) |  
[D] = 100 \* (C) / [B]  
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
A = Parent Result  
C = MS/LCS Result  
E = MSD/LCSD Result

MS = Matrix Spike  
B = Spike Added  
D = MSD/LCSD % Rec

Spectrum Environmental Services  
Wauhoma Project

Analytical Method: VOCs by SW-846 8260C  
Seq Number: 3131832  
Parent Sample Id: 666982-010

Matrix: Ground Water  
MS Sample Id: 666982-010 S

Prep Method: SW5030B  
Date Prep: 07.15.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
1,1,1,2-Tetrachloroethane	<1.00	50.0	47.8	96	72-125	ug/L	07.15.2020 19:00	
1,1,2,2-Tetrachloroethane	<1.00	50.0	48.0	96	74-125	ug/L	07.15.2020 19:00	
Tetrachloroethylene	<1.00	50.0	44.7	89	71-125	ug/L	07.15.2020 19:00	
Toluene	<1.00	50.0	44.8	90	59-139	ug/L	07.15.2020 19:00	
1,2,3-Trichlorobenzene	<5.00	50.0	53.7	107	75-137	ug/L	07.15.2020 19:00	
1,2,4-Trichlorobenzene	<5.00	50.0	50.5	101	75-135	ug/L	07.15.2020 19:00	
1,1,1-Trichloroethane	<1.00	50.0	46.8	94	75-125	ug/L	07.15.2020 19:00	
1,1,2-Trichloroethane	<1.00	50.0	47.9	96	75-127	ug/L	07.15.2020 19:00	
Trichloroethene	<1.00	50.0	45.8	92	62-137	ug/L	07.15.2020 19:00	
Trichlorofluoromethane	<1.00	50.0	45.9	92	60-140	ug/L	07.15.2020 19:00	
1,2,3-Trichloropropane	<1.00	50.0	47.1	94	75-125	ug/L	07.15.2020 19:00	
1,2,4-Trimethylbenzene	<1.00	50.0	44.9	90	75-125	ug/L	07.15.2020 19:00	
1,3,5-Trimethylbenzene	<1.00	50.0	45.2	90	70-125	ug/L	07.15.2020 19:00	
o-Xylene	<1.00	50.0	46.2	92	75-125	ug/L	07.15.2020 19:00	
m,p-Xylenes	<2.00	100	91.0	91	75-125	ug/L	07.15.2020 19:00	
Vinyl Acetate	<25.0	250	264	106	60-140	ug/L	07.15.2020 19:00	
Vinyl Chloride	<1.00	50.0	45.3	91	60-140	ug/L	07.15.2020 19:00	

Surrogate	MS %Rec	MS Flag	Limits	Units	Analysis Date
Dibromofluoromethane	96		75-131	%	07.15.2020 19:00
1,2-Dichloroethane-D4	102		63-144	%	07.15.2020 19:00
Toluene-D8	99		80-117	%	07.15.2020 19:00
4-Bromofluorobenzene	102		74-124	%	07.15.2020 19:00

MS/MSD Percent Recovery  
Relative Percent Difference  
LCS/LCSD Recovery  
Log Difference

$[D] = 100 * (C - A) / B$   
 $RPD = 200 * |(C - E) / (C + E)|$   
 $[D] = 100 * (C) / [B]$   
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample  
 A = Parent Result  
 C = MS/LCS Result  
 E = MSD/LCSD Result

MS = Matrix Spike  
 B = Spike Added  
 D = MSD/LCSD % Rec

# Form 2 - Surrogate Recoveries

Project Name: Wauhoma Project

Report Date: 07212020

Work Orders : 667009

Project ID: 3357-002

Lab Batch #: 3131832

Sample: 7707490-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07.15.2020 18:13

## SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0480	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0498	0.0500	100	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	
4-Bromofluorobenzene	0.0486	0.0500	97	74-124	

Lab Batch #: 3131832

Sample: 7707490-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07.15.2020 18:37

## SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0474	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0492	0.0500	98	63-144	
Toluene-D8	0.0496	0.0500	99	80-117	
4-Bromofluorobenzene	0.0493	0.0500	99	74-124	

Lab Batch #: 3131832

Sample: 666982-010 S / MS

Batch: 1 Matrix: Ground Water

Units: mg/L

Date Analyzed: 07.15.2020 19:00

## SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0480	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0511	0.0500	102	63-144	
Toluene-D8	0.0495	0.0500	99	80-117	
4-Bromofluorobenzene	0.0508	0.0500	102	74-124	

Lab Batch #: 3131832

Sample: 7707490-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07.15.2020 20:35

## SURROGATE RECOVERY STUDY

VOCs by SW-846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0508	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0515	0.0500	103	63-144	
Toluene-D8	0.0494	0.0500	99	80-117	
4-Bromofluorobenzene	0.0510	0.0500	102	74-124	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

# Form 2 - Surrogate Recoveries

Project Name: Wauhoma Project

Report Date: 07212020

Work Orders : 667009

Project ID: 3357-002

Lab Batch #: 3132016

Sample: 7707610-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07.17.2020 18:44

## SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0516	0.0500	103	53-142	
1,2-Dichloroethane-D4	0.0513	0.0500	103	56-150	
Toluene-D8	0.0508	0.0500	102	70-130	
4-Bromofluorobenzene	0.0500	0.0500	100	68-152	

Lab Batch #: 3132016

Sample: 7707610-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07.17.2020 19:05

## SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0498	0.0500	100	53-142	
1,2-Dichloroethane-D4	0.0480	0.0500	96	56-150	
Toluene-D8	0.0506	0.0500	101	70-130	
4-Bromofluorobenzene	0.0497	0.0500	99	68-152	

Lab Batch #: 3132016

Sample: 666905-005 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07.17.2020 19:26

## SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0566	0.0500	113	53-142	
1,2-Dichloroethane-D4	0.0582	0.0500	116	56-150	
Toluene-D8	0.0490	0.0500	98	70-130	
4-Bromofluorobenzene	0.0500	0.0500	100	68-152	

Lab Batch #: 3132016

Sample: 7707610-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07.17.2020 22:17

## SURROGATE RECOVERY STUDY

VOCs By SW846 8260C Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromofluoromethane	0.0458	0.0500	92	53-142	
1,2-Dichloroethane-D4	0.0516	0.0500	103	56-150	
Toluene-D8	0.0490	0.0500	98	70-130	
4-Bromofluorobenzene	0.0526	0.0500	105	68-152	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



# Chain of Custody

1600 Oakbrook Drive, Suite 565, Norcross, GA 30093 (770-449-8800)

Work Order No: 667009

www.xenco.com Page 1 of 1

Project Manager:	Jamie Cox	Bill to: (if different)	
Company Name:	Spectrum Environmental Services, Inc.	Company Name:	(Same)
Address:	85 Spectrum Cove	Address:	
City, State ZIP:	Alabaster, AL 35007	City, State ZIP:	
Phone:	205-612-9298	Email:	rcothem@specenviro.com

**Work Order Comments**

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: Level II Level III PST/UST RRP Level IV

Deliverables: EDD ADaPT Other:

Project Name:		Wauhoma Project		Turn Around		ANALYSIS REQUEST											Work Order Notes		
Project Number:	3357-002	Routine	<input checked="" type="checkbox"/>	Rush:	<input type="checkbox"/>												TAT starts the day received by the lab, if received by 1:00 pm		
P.O. Number:	13446	Sampler's Name:	Audrey Hanson	Due Date:													Sample Comments		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	VOCs (8260C)	% Moisture												
SB-1	Soil	7/9/20	9:40	16 ft	5	4	1												
SB-2	Soil	7/9/20	11:50	18 ft	5	4	1												
SB-3	Soil	7/9/20	14:00	10 ft	5	4	1												

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Audrey Hanson	FedEx	<del>7/10/20</del> 7/10/20 11:00	FedEx	John Hanson	07/10/20 11:10
3					
5					



# Chain of Custody

Work Order No: 667009

1600 Oakbrook Drive, Suite 565, Norcross, GA 30093 (770-449-8800)

www.xenco.com Page 1 of 1

Project Manager:	Jamie Cox	Bill to: (if different)	
Company Name:	Spectrum Environmental Services, Inc.	Company Name:	(Same)
Address:	85 Spectrum Cove	Address:	
City, State ZIP:	Alabaster, AL 35007	City, State ZIP:	
Phone:	205-612-9298	Email:	rcothern@specenviro.com

Work Order Comments	
Program: <input type="checkbox"/> UST/ <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:		Wauhoma Project		Turn Around		ANALYSIS REQUEST										Work Order Notes	
Project Number:	3357-002	Routine:	<input checked="" type="checkbox"/>	Rush:	<input type="checkbox"/>											TAT starts the day received by the lab, if received by 1:00 pm	
P.O. Number:	13446	Due Date:												Sample Comments			
Sampler's Name:	Audrey Henson																
<b>SAMPLE RECEIPT</b>	Temp Blank:	Yes	No	Wet Ice:	Yes	No											
Temperature (°C):	49.5.1	Yes	No	Thermometer ID:	ATL-123												
Received Intact:	Yes	No	N/A	Correction Factor:	+0.2												
Cooler Custody Seals:	Yes	No	N/A	Total Containers:													
Sample Custody Seals:	Yes	No	N/A														
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers												
SB-1 GW	GW	7/9/20	10:00		3	3											
SB-3 GW	GW	7/9/20	15:00		3	3											
SB-2 GW	GW	7/10/20	10:00		3	3											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Audrey Henson	FedEx	7/9/20 11:00	2 FedEx	John Anderson	7/10/20 11:00
3			4		
5			6		

90009

**Thermo**  
SCIENTIFIC

**CUSTODY SEAL**

Date 7/9/2020

Signature Audrey Henson

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SHIP DATE: 02JUL20  
ACTWGT: 20.00 LB  
CAD: 112416664/INET4220

ORIGIN ID: ASNA (205) 651-0858  
AUDREY HENSON  
SPECTRUM ENVIRONMENTAL SVCS.  
85 SPECTRUM COVE

ALABASTER, AL 35007  
UNITED STATES US

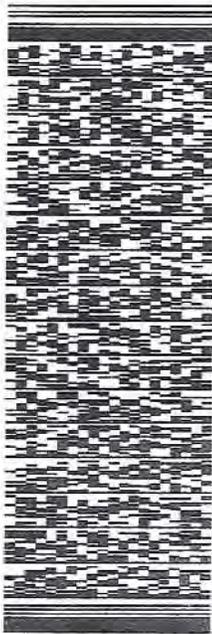
TO **SAMPLE RECEIVING**  
**XENCO LABS**  
**1600 OAKBROOK DR.**  
**SUITE 565**  
**NORCROSS GA 30093**

REF: SPECTRUM PROJECT

INV: (770) 449-8800

PO: DEPT:

RMA:



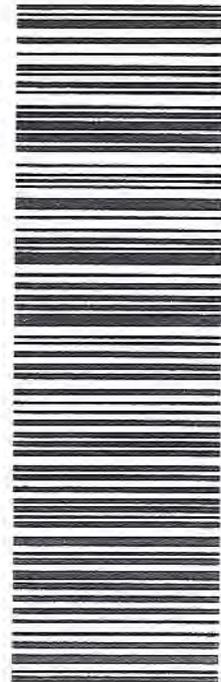
1281128642081us

**RETURNS MON-SAT**  
**PRIORITY OVERNIGHT**

TRK# **7910 6266 4867**

**30093**

GA-US



# Inter-Office Shipment

**IOS Number : 67009**

Date/Time: 07.14.2020

Created by: John Andros

Please send report to: John Andros

Lab# From: Atlanta

Delivery Priority:

Address: 1600 Oakbrook Dr., Suite 565, Norcross, GA 30091

Lab# To: Houston

Air Bill No.:

E-Mail: john.andros@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
667009-001	S	SB-1	07.09.2020 09:40	SW8260C	VOCs By SW846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-001	S	SB-1	07.09.2020 09:40	SM2540G-MOIST	Percent Moisture by SM2540G	07.17.2020	01.05.2021	JNA	MOIST	
667009-002	S	SB-2	07.09.2020 11:50	SW8260C	VOCs By SW846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-002	S	SB-2	07.09.2020 11:50	SM2540G-MOIST	Percent Moisture by SM2540G	07.17.2020	01.05.2021	JNA	MOIST	
667009-003	S	SB-3	07.09.2020 14:00	SW8260C	VOCs By SW846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-003	S	SB-3	07.09.2020 14:00	SM2540G-MOIST	Percent Moisture by SM2540G	07.17.2020	01.05.2021	JNA	MOIST	
667009-004	W	SB-1 GW	07.09.2020 10:00	SW8260C	VOCs by SW-846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-005	W	SB-3 GW	07.09.2020 15:00	SW8260C	VOCs by SW-846 8260C	07.17.2020	07.23.2020	JNA	ACE ACRL ACRN BDCI	
667009-006	W	SB-2 GW	07.10.2020 10:00	SW8260C	VOCs by SW-846 8260C	07.17.2020	07.24.2020	JNA	ACE ACRL ACRN BDCI	

**Inter Office Shipment or Sample Comments:**

Relinquished By:   
 \_\_\_\_\_  
 John Andros

Date Relinquished: 07.14.2020

Received By:   
 \_\_\_\_\_  
 Jhyrom Edralin

Date Received: 07.14.2020

Cooler Temperature: 1.2



## Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 67009

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : hou-068

Sent By: John Andros

Date Sent: 07.14.2020 11.01 AM

Received By: Jhyrom Edralin

Date Received: 07.14.2020 09.30 AM

### Sample Receipt Checklist

### Comments

- #1 \*Temperature of cooler(s)? 1.2
- #2 \*Shipping container in good condition? Yes
- #3 \*Samples received with appropriate temperature? Yes
- #4 \*Custody Seals intact on shipping container/ cooler? N/A
- #5 \*Custody Seals Signed and dated for Containers/coolers N/A
- #6 \*IOS present? Yes
- #7 Any missing/extra samples? No
- #8 IOS agrees with sample label(s)/matrix? Yes
- #9 Sample matrix/ properties agree with IOS? Yes
- #10 Samples in proper container/ bottle? Yes
- #11 Samples properly preserved? Yes
- #12 Sample container(s) intact? Yes
- #13 Sufficient sample amount for indicated test(s)? Yes
- #14 All samples received within hold time? Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

### NonConformance:

### Corrective Action Taken:

### Nonconformance Documentation

Contact: \_\_\_\_\_ Contacted by : \_\_\_\_\_ Date: \_\_\_\_\_

Checklist reviewed by:

Jhyrom Edralin

Date: 07.14.2020

**Eurofins Xenco, LLC**  
**Prelogin/Nonconformance Report- Sample Log-In**

**Client:** Spectrum Environmental Services  
**Date/ Time Received:** 07.11.2020 11.10.00 AM  
**Work Order #:** 667009

**Acceptable Temperature Range:** 0 - 6 degC  
**Air and Metal samples Acceptable Range:** Ambient  
**Temperature Measuring device used :** ATL-123

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	No
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes
#18 Water VOC samples have zero headspace?	Yes

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: MCM

PH Device/Lot#: N/A

**Checklist completed by:**  Date: 07.14.2020  
John Andros

**Checklist reviewed by:**  Date: 07.14.2020  
John Andros

APPENDIX H

HUD PARTNER WORKSHEETS AND SUPPORTING DOCUMENTATION



**U.S. Department of Housing and Urban  
Development**

451 Seventh Street, SW  
Washington, DC 20410  
www.hud.gov

[espanol.hud.gov](http://espanol.hud.gov)

Environmental Assessment

## **Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58**

### **Project Information**

**Project Name:** East Lake Scattered Sites

**Responsible Entity:**

**Grant Recipient** (if different than Responsible Entity):

**State/Local Identifier:** Alabama – AL

**Preparer:** Spectrum Environmental, Inc. – Jamie D. Cox, P.G.

**Certifying Officer Name and Title:**

**Grant Recipient** (if different than Responsible Entity):

**Consultant** (if applicable): Spectrum Environmental, Inc.

**Direct Comments to:** Jamie Cox ([jcox@specenviro.com](mailto:jcox@specenviro.com))

### **Project Location:**

<b>ID</b>	<b>Address</b>	<b>Parcel Number</b>	<b>Acres</b>
PA-1	111 71 <sup>st</sup> St N, Birmingham, AL	12300152021008000	0.12
PA-2	217 71 <sup>st</sup> St N, Birmingham, AL	12300152021009000	0.14
PA-3	7109 3 <sup>rd</sup> Ave N, Birmingham, AL	12300152021005000	0.121
PA-4	7111 3 <sup>rd</sup> Ave N, Birmingham, AL	12300152021004000	0.06
PA-5	7115 3 <sup>rd</sup> Ave N, Birmingham, AL	12300152020003000	0.20
PA-6	220 72 <sup>nd</sup> St N, Birmingham, AL	12300152020020000	0.17
PA-7	212 72 <sup>nd</sup> St N, Birmingham, AL	12300152020018000	0.11
PA-8	7132 2 <sup>nd</sup> Ave N, Birmingham, AL	12300152020017000	0.35
PA-9	7120 2 <sup>nd</sup> Ave N, Birmingham, AL	12300152020015000	0.23
PA-10	7100 2 <sup>nd</sup> Ave N, Birmingham, AL	12300152020010000	0.23
PA-11	114 72 <sup>nd</sup> St N, Birmingham, AL	12300151038006000	0.09

**Description of the Proposed Project** [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

**Statement of Purpose and Need for the Proposal** [40 CFR 1508.9(b)]:

**Existing Conditions and Trends** [24 CFR 58.40(a)]:

**Funding Information**

Grant Number	HUD Program	Funding Amount

**Estimated Total HUD Funded Amount:**

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]:

**Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities**

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	There are no civilian airports located within 2,500 feet and no military airports located with 15,000 feet of the project site; therefore, the project is in compliance. See section 6.6.1 (Page 22) of the Phase I ESA, Appendix A - Figures 4 and 5 and Partner Worksheet in Appendix H.
<b>Coastal Barrier Resources</b>  Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project is not located in a CBRS unit; therefore, the project is in compliance with the section. See section 6.6.3 (Page 22) of the Phase I ESA, Figure 7, and Partner Worksheet in Appendix H.

<p><b>Flood Insurance</b></p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes No  <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The target property is not located within a FEMA Special Hazard Flood Zone, based on the FEMA FIRM map 01073C0411H. See section 6.6.9 (Page 24) of the Phase I ESA, Appendix A - Figure 10 and Partner Worksheet in Appendix H.</p>
<p><b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.5</b></p>		
<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes No  <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The target property is not located within an area of non-attainment for any critical pollutants. However, the property is in an area of maintenance for ozone and particulate matter. The project includes new construction; however, the small-scale construction of single family homes on previously developed lots is not projected to exceed <i>de minimis</i> emissions levels or screening levels. See section 6.6.2 (Page 22) of the Phase I ESA and Partner Worksheet in Appendix H.</p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes No  <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>This project is not located within a Coastal Zone; therefore, the project is in compliance with this section. See section 6.6.4 (Page 23) of the Phase I ESA and Partner Worksheet in Appendix H.</p>
<p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</p>	<p>Yes No  <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>This Phase I ESA did not identify any petroleum products or hazardous materials on the target property, aside from household quantities. Further, the Phase II ESA did not identify any VOCs above EPA RSLs at the property. As such, the project is in compliance with this section. See section Section 6.6.5 (Page 23) of the Phase I ESA and Partner Worksheet in Appendix H.</p>
<p><b>Endangered Species</b></p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No  <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>Based on the site reconnaissance, suitable habitat to support the listed threatened and/or endangered species was not identified within the project area. Further, the target property and surrounding area contains pre-existing residential dwellings and the proposed development activities are consistent with pre-existing land use. See section 6.6.6 (Page</p>

		23) of the Phase I and Partner Worksheet in Appendix H.
<b>Explosive and Flammable Hazards</b>  24 CFR Part 51 Subpart C	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	This project does not include a hazardous facility and no ASTs were identified within one miles of the property; therefore, this project is in compliance with this section. See section 6.6.7 (Page 23) of the Phase I ESA and Partner Worksheet in Appendix H.
<b>Farmlands Protection</b>  Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The target property is not currently being farmed, forested, or being used as croplands. Currently, the property contains pre-existing residential buildings and vacant lots. Further, the property does not include soil units classified as prime farmland; therefore, this project is in compliance with this section. See section 6.6.8 (Page 24) of the Phase I ESA and Partner Worksheet in Appendix H.
<b>Floodplain Management</b>  Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The target property is not located within a floodplain based on the FEMA FIRM map 01073C0411H. See section 6.6.9 (Page 24) of the Phase I ESA, Appendix A - Figure 10 and Partner Worksheet in Appendix H.
<b>Historic Preservation</b>  National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The target property and surrounding properties carry no historical significance. However, the building on, and many within the APE are greater than 50 years old. See section 6.6.10 (Page 24) of the Phase I ESA, Appendix A - Figure 11 and Partner Worksheet in Appendix H.
<b>Noise Abatement and Control</b>  Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The combined noise generated from noise sources was calculated to be 68 dB. It is recommended that interior noise levels with the current construction materials be evaluated using STraCAT calculations. See section 6.6.11 (Page 24) of the Phase I ESA and Partner Worksheet in Appendix H.
<b>Sole Source Aquifers</b>  Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project does not lie within a sole source aquifer; therefore, is in compliance with this section. See section 6.6.12 (Page 25) of the Phase I ESA, Appendix A - Figure 13 and Partner Worksheet in Appendix H.

<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) map (Appendix A – Figure 14), there are no wetlands within the target property boundary. Therefore, this project is in compliance with this section. See section 6.6.13 (Page 25) of the Phase I ESA (page 21), Appendix A - Figure 14 and Partner Worksheet in Appendix H.</p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>This project is not within the proximity of a Wild and Scenic River, Study River or Nationwide Rivers Inventory River; therefore, this project is in compliance with this section. See section 6.6.14 (Page 26) of the Phase I ESA, Appendix A - Figure 15 and Partner Worksheet in Appendix H.</p>
<p><b>ENVIRONMENTAL JUSTICE</b></p>		
<p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>No adverse impacts were identified in the Phase I Report. See section 6.6.15 (Page 26) of the Phase I ESA and Partner Worksheet in Appendix H.</p>

**Environmental Assessment Factors** [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

**Impact Codes:** Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
---------------------------------	-------------	-------------------

<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	No impacts are anticipated.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	No impacts are anticipated.
Hazards and Nuisances including Site Safety and Noise	2	No impacts are anticipated.
Energy Consumption	2	No impacts are anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	No impacts are anticipated.
Demographic Character Changes, Displacement	2	No impacts are anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	No impacts are anticipated.
Commercial Facilities	2	No impacts are anticipated.
Health Care and Social Services	2	No impacts are anticipated.
Solid Waste Disposal / Recycling	2	No impacts are anticipated.
Waste Water / Sanitary Sewers	2	No impacts are anticipated.
Water Supply	2	No impacts are anticipated.

Public Safety - Police, Fire and Emergency Medical	2	No impacts are anticipated.
Parks, Open Space and Recreation	2	No impacts are anticipated.
Transportation and Accessibility	2	No impacts are anticipated.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	No impacts are anticipated.
Vegetation, Wildlife	2	No impacts are anticipated.
Other Factors	2	No impacts are anticipated.

**Additional Studies Performed:** Phase I Environmental Site Assessment and Limited Phase II Environmental Site Assessment.

**Field Inspection** (Date and completed by): Audrey Henson on May 26, 2020

**List of Sources, Agencies and Persons Consulted** [40 CFR 1508.9(b)]: Environmental Data Resources (EDR), Property Contact, and Local Fire Department.

**List of Permits Obtained:** It is our opinion that there will be no impacts from the proposed project, as such no permits are required to be listed

**Public Outreach** [24 CFR 50.23 & 58.43]: Public notice has been provided to the community for this proposed project and requested funds.

**Cumulative Impact Analysis** [24 CFR 58.32]: No impacted anticipated

**Alternatives** [24 CFR 58.40(e); 40 CFR 1508.9]: Alternative sites are not listed, since there are no anticipated impacts from this project. New construction would be much more cost prohibitive for the project.

**No Action Alternative** [24 CFR 58.40(e)]: It is our opinion that there will be no impacts from the proposed project, as such no actions are recommended. If no actions were taken and this project was not completed, this facility would be unable to continue to provide adequate housing for those in need.

**Summary of Findings and Conclusions:** The Responsible Entity has determined that based on the findings in this report, there will be no significant adverse environmental impacts as a result of this project, therefore a Finding of No Significant Impact can be made.

**Mitigation Measures and Conditions [40 CFR 1505.2(c)]**

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Noise	The combined noise generated from noise sources was calculated to be 68 dB. It is recommended that interior noise levels with the current construction materials be evaluated using STraCAT calculations.

**Determination:**

**Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]  
The project will not result in a significant impact on the quality of the human environment.

**Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]  
The project may significantly affect the quality of the human environment.

Preparer Signature: Jamie D. Cox Date: \_\_\_\_\_

Name/Title/Organization: Jamie D. Cox, P.G - Project Manager - Spectrum Environmental, Inc.

Certifying Officer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name/Title: \_\_\_\_\_

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## **Airport Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/airport-hazards>

**1. To ensure compatible land use development, you must determine your site’s proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

Yes → *Continue to Question 2.*

**2. Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?**

Yes, project is in an APZ → *Continue to Question 3.*

Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

No, project is not within an APZ or RPZ/CZ

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

**3. Is the project in conformance with DOD guidelines for APZ?**

Yes, project is consistent with DOD guidelines without further action.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

No, the project cannot be brought into conformance with DOD guidelines and has not been approved. → *Project cannot proceed at this location.*

**If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

Click here to enter text.

→ *Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

A map showing that the site is not within the applicable distances to a military or civilian airport is provided in Appendix A (Figures 4 and 5).



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Air Quality (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/air-quality>

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

Yes → Continue to Question 2.

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.

2. Is your project’s air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

Follow the link below to determine compliance status of project county or air quality management district:

<https://www.epa.gov/green-book>

No, project’s county or air quality management district is in attainment status for all criteria pollutants

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

Yes, project’s management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.

3. Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis* or *threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?

No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed *de minimis* or threshold emissions.

Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ Continue to Question 4. Explain how you determined that the project would not exceed *de minimis* or threshold emissions in the Worksheet Summary.

**4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The property is not within areas of non-attainment for any critical pollutants. However, the property is in an area of maintenance for ozone and particulate matter (Appendix A – Figure 6). The project includes new construction; however, the small-scale construction of single-family homes on previously developed lots is not projected to exceed *de minimis* emissions levels or screening levels.



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WASHINGTON, DC 20410-1000

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## Coastal Barrier Resources (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/coastal-barrier-resources>

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

### 1. Is the project located in a CBRS Unit?

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*

Yes → *Continue to 2.*

Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see [16 USC 3505](#) for exceptions to limitations on expenditures).

### 2. Indicate your recommended course of action for the RE/HUD

Consultation with the FWS

Cancel the project

### Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

Project is not located with defined Coastal Barrier Resource Unit (Appendix A – Figure 7).



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## Coastal Zone Management Act (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/coastal-zone-management>

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands
American Samoa	Guam	Maryland	New Jersey	Pennsylvania	Virginia
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin
Delaware	Indiana	Minnesota	Northern Mariana Islands	South Carolina	

**1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?**

Yes → Continue to Question 2.

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.

**2. Does this project include activities that are subject to state review?**

Yes → Continue to Question 3.

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

**3. Has this project been determined to be consistent with the State Coastal Management Program?**

Yes, with mitigation. → The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.

Yes, without mitigation. → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

No → Project cannot proceed at this location.

**Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

Project is not located within or near a defined coastal zone (Appendix A – Figure 8).

## Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

General requirements	Legislation	Regulations
It is HUD policy that all properties that are being proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of the occupants or conflict with the intended utilization of the property.		24 CFR 58.5(i)(2) 24 CFR 50.3(i)
Reference		
<a href="https://www.hudexchange.info/programs/environmental-review/site-contamination">https://www.hudexchange.info/programs/environmental-review/site-contamination</a>		

**1. How was site contamination evaluated? <sup>1</sup> Select all that apply.**

- ASTM Phase I ESA
- ASTM Phase II ESA
- Remediation or clean-up plan
- ASTM Vapor Encroachment Screening
- None of the above

→ Provide documentation and reports and include an explanation of how site contamination was evaluated in the Worksheet Summary.

Continue to Question 2.

**2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)**

- No

**Explain:** The Phase I and II did not identify any RECs in connection with the target property.

---

<sup>1</sup> HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD’s toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Yes.

→ Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.

### 3. Mitigation

Work with the RE/HUD to identify the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental effects cannot be mitigated, then HUD assistance may not be used for the project at this site.

#### Can adverse environmental impacts be mitigated?

Adverse environmental impacts cannot feasibly be mitigated

→ Project cannot proceed at this location.

Yes, adverse environmental impacts can be eliminated through mitigation.

→ Provide all mitigation requirements<sup>2</sup> and documents. Continue to Question 4.

### 4. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls<sup>3</sup>, or use of institutional controls<sup>4</sup>.

The findings of the Phase I and Phase II ESAs did not identify RECs in connection with the target property.

#### If a remediation plan or clean-up program was necessary, which standard does it follow?

---

<sup>2</sup> Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

<sup>3</sup> Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

<sup>4</sup> Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

Complete removal

→ *Continue to the Worksheet Summary.*

Risk-based corrective action (RBCA)

→ *Continue to the Worksheet Summary.*

## **Worksheet Summary**

### **Compliance Determination**

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region
- 

### **Are formal compliance steps or mitigation required?**

Yes

No



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Endangered Species Act (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/endangered-species>

### 1. Does the project involve any activities that have the potential to affect species or habitats?

No, the project will have No Effect due to the nature of the activities involved in the project.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

**Explain your determination:**

Click here to enter text.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

Yes, the activities involved in the project have the potential to affect species and/or habitats.

→ Continue to Question 2.

### 2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the [FWS Website](#).

No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services’ websites, surveys or other documents and analysis showing that there are no species in the action area.

Yes, there are federally listed species or designated critical habitats present in the action area.

→ Continue to Question 3.

**3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:**

No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

**Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

Based on our review of the USFWS IPaC Resources Report, seven endangered species (Indian Bat, Gray Bat, Black Warrior Waterdog, Rush Darter, Watercress Darter, Ovate Clubshell, and Upland Combshell) and three threatened species (Northern Long-eared Bat, Flattened Musk Turtle, and Finelined Pocketbook) were identified. The target property is located outside of defined Critical Habitat for the species. Based on our site visit, suitable habitat to support the listed threatened and/or endangered species was not identified within the project area. Further, the target property and surrounding area predominately contain pre-existing residential dwellings and the proposed development activities are consistent with pre-existing land use.



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Alabama Ecological Services Field Office  
1208 B Main Street  
Daphne, AL 36526-4419  
Phone: (251) 441-5181 Fax: (251) 441-6222

In Reply Refer To:

July 10, 2020

Consultation Code: 04EA1000-2020-SLI-1200

Event Code: 04EA1000-2020-E-03096

Project Name: East Lake Scattered Sites

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. Please note that new information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

Note that due to the volume of emails received by our office, we cannot accept project consultation requests by email.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Also note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the process and consultation under the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs

for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/pdf/management/usfwscommunicationtowerguidance.pdf>

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

We can be reached at:

US Fish and Wildlife Service

1208 Main Street

Daphne, AL 36526

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Attachment(s):

- Official Species List

# Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Alabama Ecological Services Field Office**

1208 B Main Street

Daphne, AL 36526-4419

(251) 441-5181

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## Project Summary

Consultation Code: 04EA1000-2020-SLI-1200

Event Code: 04EA1000-2020-E-03096

Project Name: East Lake Scattered Sites

Project Type: \*\* OTHER \*\*

Project Description: HUD Part 58 funding for housing project

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/33.55642319869899N86.73616038765766W>



Counties: Jefferson, AL

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## Endangered Species Act Species

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6329">https://ecos.fws.gov/ecp/species/6329</a>	Endangered
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

### Reptiles

NAME	STATUS
Flattened Musk Turtle <i>Sternotherus depressus</i> Population: Black Warrior R. system upstream from Bankhead Dam No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6961">https://ecos.fws.gov/ecp/species/6961</a>	Threatened

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## Amphibians

NAME	STATUS
Black Warrior (=sipsey Fork) Waterdog <i>Necturus alabamensis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5426">https://ecos.fws.gov/ecp/species/5426</a>	Endangered

## Fishes

NAME	STATUS
Rush Darter <i>Etheostoma phytophilum</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2779">https://ecos.fws.gov/ecp/species/2779</a>	Endangered
Watercress Darter <i>Etheostoma nuchale</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1838">https://ecos.fws.gov/ecp/species/1838</a>	Endangered

## Clams

NAME	STATUS
Finelined Pocketbook <i>Lampsilis altilis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1393">https://ecos.fws.gov/ecp/species/1393</a>	Threatened
Ovate Clubshell <i>Pleurobema perovatum</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5430">https://ecos.fws.gov/ecp/species/5430</a>	Endangered
Upland Combshell <i>Epioblasma metastriata</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/317">https://ecos.fws.gov/ecp/species/317</a>	Endangered

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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**Explosive and Flammable Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities>

1. Is the proposed HUD-assisted project itself the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?

No

→ Continue to Question 2.

Yes

**Explain:**

Click here to enter text.

→ Go directly to Question 5.

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Yes → Continue to Question 3.

3. Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:

- Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR
- Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 or later version of National Fire Protection Association (NFPA) Code 58.

If all containers within the search area fit the above criteria, answer “no.” For any other type of aboveground storage container within the search area that holds one of the flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer “yes.”

No

→ Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.

Yes

→ Continue to Question 4.

4. Visit HUD's website to identify the appropriate tank or tanks to assess and to calculate the required separation distance using the [electronic assessment tool](#). To document this step in the analysis, please attach the following supporting documents to this screen:

- Map identifying the tank selected for assessment, and showing the distance from the tank to the proposed HUD-assisted project site; and
- Electronic assessment tool calculation of the required separation distance.

Based on the analysis, is the proposed HUD-assisted project site located at or beyond the required separation distance from all covered tanks?

Yes

→ Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.

No

→ Go directly to Question 6.

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

Please visit HUD's website for information on calculating Acceptable Separation Distance.

Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Mitigation measures may include both natural and manmade barriers, modification of the project design, burial or removal of the hazard, or other engineered solutions. Describe selected mitigation measures, including the timeline for implementation, and attach an implementation plan. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

[Click here to enter text.](#)

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates

- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

Based on a review of the environmental database report, there are no current or planned stationary aboveground storage tanks within one miles of the property. As such, the project is in compliance with this section.



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## Farmlands Protection (CEST and EA) - PARTNER

<https://www.hudexchange.info/environmental-review/farmlands-protection>

**1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?**

Yes → Continue to Question 2.

No

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

**2. Does “important farmland,” including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?**

You may use the links below to determine important farmland occurs on the project site:

- Utilize USDA Natural Resources Conservation Service’s (NRCS) Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>
- Check with your city or county’s planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
- Contact NRCS at the local USDA service center <http://offices.sc.egov.usda.gov/locator/app?agency=nrcs> or your NRCS state soil scientist [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951) for assistance

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

Yes → Continue to Question 3.

**3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.**

- Complete form [AD-1006, “Farmland Conversion Impact Rating”](#) and contact the state soil scientist before sending it to the local NRCS District Conservationist.
- Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

**Work with the RE/HUD to determine how the project will proceed. Document the conclusion:**

Project will proceed with mitigation.

**Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

Project will proceed without mitigation.

**Explain why mitigation will not be made here:**

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

The target property is not currently being farmed, forested, or being used as croplands. Currently, the property contains pre-existing residential buildings and vacant lots. Additionally, the target property does not include prime farmland soil units (Appendix A- Figure 9).



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Flood Insurance (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/flood-insurance>

**1. Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction of a structure, mobile home, or insurable personal property?**

No. This project does not require flood insurance or is excepted from flood insurance.

→ Continue to the Worksheet Summary.

Yes → Continue to Question 2.

**2. Provide a FEMA/FIRM map showing the site.**

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

**Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?**

No → Continue to the Worksheet Summary.

Yes → Continue to Question 3.

**3. Is the community participating in the National Flood Insurance Program or has less than one year passed since FEMA notification of Special Flood Hazards?**

Yes, the community is participating in the National Flood Insurance Program.

Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ Continue to the Worksheet Summary.

Yes, less than one year has passed since FEMA notification of Special Flood Hazards.

If less than one year has passed since notification of Special Flood Hazards, no flood insurance is required.

→ Continue to the Worksheet Summary.

No. The community is not participating, or its participation has been suspended.

Federal assistance may not be used at this location. Cancel the project at this location.

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

Per the attached FEMA Flood Map (Panel number 01073C0411H), the project is not located in a FEMA-designated Special Flood Hazard Zone. The FEMA map is provided in Appendix A – Figure 10).



This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Floodplain Management (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/floodplain-management>

1. Does [24 CFR 55.12\(c\)](#) exempt this project from compliance with HUD’s floodplain management regulations in Part 55?

Yes

Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary.

No → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

### Does your project occur in a floodplain?

No → Continue to the Worksheet Summary below.

Yes

Select the applicable floodplain using the FEMA map or the best available information:

Floodway → Continue to Question 3, Floodways

Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas

500-year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains

100-year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process

### 3. Floodways

**Is this a functionally dependent use?**

Yes

The 8-Step Process is required. Work with HUD or the RE to assist with the 8-Step Process.  
→ *Continue to Worksheet Summary.*

No → *Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

### 4. Coastal High Hazard Area

**Is this a critical action such as a hospital, nursing home, fire station, or police station?**

Yes → *Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

No

**Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?**

Yes, there is new construction of something that is not a functionally dependent use.  
New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)).  
→ *Continue to Question 6, 8-Step Process*

No, this action concerns only existing construction.  
Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.  
→ *Continue to Question 6, 8-Step Process*

### 5. 500-year Floodplain

**Is this a critical action?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Yes → *Continue to Question 6, 8-Step Process*

### 6. 8-Step Process.

**Is this 8-Step Process required? Select one of the following options:**

8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements.  
→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

5-Step Process is applicable per 55.12(a)(1-3).

**Provide the applicable citation at 24 CFR 55.12(a) here.**

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.*

8-Step Process is inapplicable per 55.12(b)(1-4).

**Provide the applicable citation at 24 CFR 55.12(b) here.**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

Per the attached FEMA Flood Map (Panel number 01073C0411H), the project is not located in a floodplain. The FEMA map is provided in Appendix A – Figure 10).



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## Historic Preservation (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/historic-preservation>

### Threshold

#### Is Section 106 review required for your project?

- No, because a Programmatic Agreement states that all activities included in this project are exempt. (See the [PA Database](#) to find applicable PAs.)

**Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:**

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

- No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

**Either provide the memo itself or a link to it here. Explain and justify the other determination here:**

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

- Yes, because the project includes activities with potential to cause effects (direct or indirect). → *Continue to Step 1.*

#### **The Section 106 Process**

After determining the need to do a Section 106 review, HUD or the RE will initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

Only RE or HUD staff may initiate the Section 106 consultation process. Partner entities may gather information, including from SHPO records, identify and evaluate historic properties, and make initial assessments of effects of the project on properties listed in or eligible for the National Register of Historic Place. Partners should then provide their RE or HUD with all of their analysis and documentation so that they may initiate consultation.

## Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the [When To Consult With Tribes checklist](#) within [Notice CPD-12-006: Process for Tribal Consultation](#) to determine if the RE or HUD should invite tribes to consult on a particular project. Use the [Tribal Directory Assessment Tool \(TDAT\)](#) to identify tribes that may have an interest in the area where the project is located. Note that only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

**List all organizations and individuals that you believe may have an interest in the project here:**

SHPO

→ *Continue to Step 2.*

## Step 2 - Identify and Evaluate Historic Properties

**Provide a preliminary definition of the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE.** Attach an additional page if necessary.

No historic properties were located on or adjacent to the target property. The nearest historic place is located approximately 0.3 miles west of the target property. A map depicting the target property that was obtained from the National Register of Historic Places is provided in Appendix A.

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register. Refer to HUD's website for guidance on identifying and evaluating historic properties.

**In the space below, list historic properties identified and evaluated in the APE.**

Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

No historic properties identified.

*Provide the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination.*

**Was a survey of historic buildings and/or archeological sites done as part of the project?**

If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, [Guidance on Archeological Investigations in HUD Projects](#).

Yes → Provide survey(s) and report(s) and continue to Step 3.

Additional notes:

[Click here to enter text.](#)

No → Continue to Step 3.

**Step 3 - Assess Effects of the Project on Historic Properties**

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. ([36 CFR 800.5](#)) Consider direct and indirect effects as applicable as per HUD guidance.

**Choose one of the findings below to recommend to the RE or HUD.**

**Please note: this is a recommendation only. It is **not** the official finding, which will be made by the RE or HUD, but only your suggestion as a Partner entity.**

No Historic Properties Affected

**Document reason for finding:**

No historic properties present.

Historic properties present, but project will have no effect upon them.

No Adverse Effect

**Document reason for finding and provide any comments below.**

Comments may include recommendations for mitigation, monitoring, a plan for unanticipated discoveries, etc.

[Click here to enter text.](#)

Adverse Effect

**Document reason for finding:**

Copy and paste applicable Criteria into text box with summary and justification.

Criteria of Adverse Effect: [36 CFR 800.5](#)

[Click here to enter text.](#)

**Provide any comments below:**

Comments may include recommendations for avoidance, minimization, and/or mitigation.

The property is not located near any historic properties, according to a review of the National Register of Historic Places. See attached NRHP map in Appendix A (Figure 11).

***Remember to provide all documentation that justifies your National Register Status determination and recommendations along with this worksheet.***



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## Noise (EA Level Reviews) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/noise-abatement-and-control>

### 1. What activities does your project involve? Check all that apply:

- New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

→ Continue to Question 2.

- Rehabilitation of an existing residential property

NOTE: For major or substantial rehabilitation in Normally Unacceptable zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. For major rehabilitation in Unacceptable zones, HUD strongly encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.

→ Continue to Question 2.

- None of the above

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

### 2. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000’ from a major road, 3000’ from a railroad, or 15 miles from an airport).

Indicate the findings of the Preliminary Screening below:

- There are no noise generators found within the threshold distances above.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing the location of the project relative to any noise generators.

- Noise generators were found within the threshold distances.

→ Continue to Question 3.

### 3. Complete the Noise Assessment Guidelines to quantify the noise exposure. Indicate the findings of the Noise Assessment below:

- Acceptable (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

**Indicate noise level here:**

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide noise analysis, including noise level and data used to complete the analysis.

- Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in 24 CFR 51.105(a))

**Indicate noise level here:** 68 db

If project is rehabilitation:

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.

If project is new construction:

**Is the project in a largely undeveloped area<sup>1</sup>?**

No

Yes → **The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i).**

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.

- Unacceptable: (Above 75 decibels)

**Indicate noise level here:** [Click here to enter text.](#)

If project is rehabilitation:

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels. Consider converting this property to a non-residential use compatible with high noise levels.

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.

If project is new construction:

**The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i).** Work with HUD or the RE to either complete an EIS or obtain a waiver signed by the appropriate authority.

→ Continue to Question 4.

- 4. HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Work with the RE/HUD on the development of the mitigation measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

- Mitigation as follows will be implemented:

[Click here to enter text.](#)

→ Provide drawings, specifications, and other materials as needed to describe the project's noise mitigation measures.

---

<sup>1</sup> A largely undeveloped area means the area within 2 miles of the project site is less than 50 percent developed with urban uses and does not have water and sewer capacity to serve the project.

*Continue to the Worksheet Summary.*

- No mitigation is necessary.

**Explain why mitigation will not be made here:**

*→ Continue to the Worksheet Summary.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The target property is not located within 3,000 feet of any railroad sources; however, the property is located within 1,000 feet of a major road sources, 1<sup>st</sup> Avenue North. This data was entered into the HUD Day/Night Noise Level Calculator and the road noise source was calculated to be 65 db, which is considered acceptable. Further, the target property is within 15 miles of one airport source, Birmingham Shuttlesworth Intl (BHM). This airport is located approximately 0.5 miles northwest of the target property. According to the airport master record and airport worksheet, operations were reported to be less than established threshold values except for Air Carrier Operations and Air Taxi Operations. The number of Air Carrier Operations was reported to be 33,994 and the threshold is listed as 9,000. The number of Air Taxi Operations was reported to be 20,366 and the threshold is listed as 18,000. According to an airport noise contour map, the target property is located outside of the projected noise contours. Based on this information, it is unlikely that the airport operations will have an effect on the target property. Traffic Count data was obtained via the [Alabama DOT Website](#). The airport master record, airport worksheet, a noise contour map, and DNL calculations are attached. A map showing the locations of airports with 15 miles of the TP is provided as Figure 12.

[Home \(/\)](#) > [Programs \(/programs/\)](#) > [Environmental Review \(/programs/environmental-review/\)](#) > DNL Calculator

## DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the [Day/Night Noise Level Calculator Electronic Assessment Tool Overview \(/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/\)](#).

## 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.

## DNL Calculator

---

**Site ID**

East Lake Scattered Sites

---

**Record Date**

07/22/2020

---

**User's Name**

Jamie Cox

---

**Road # 1 Name:**

1st Avenue North

**Road #1**

Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	<input type="text" value="170"/>	<input type="text"/>	<input type="text" value="170"/>
Distance to Stop Sign	<input type="text"/>	<input type="text"/>	<input type="text"/>
Average Speed	<input type="text" value="40"/>	<input type="text"/>	<input type="text" value="35"/>
Average Daily Trips (ADT)	<input type="text" value="19363"/>	<input type="text"/>	<input type="text" value="586"/>
Night Fraction of ADT	<input type="text" value="15"/>	<input type="text"/>	<input type="text" value="15"/>
Road Gradient (%)	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Vehicle DNL	<input type="text" value="60"/>	<input type="text" value="0"/>	<input type="text" value="64"/>
<b>Calculate Road #1 DNL</b>	<input type="text" value="65"/>	<input type="text" value="Reset"/>	



 Airport Noise Level
 

Loud Impulse Sounds?

 Yes  No

 Combined DNL for all  
Road and Rail sources
 

 Combined DNL including Airport
 

 Site DNL with Loud Impulse Sound

## Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative:** Cancel the project at this location
- **Other Reasonable Alternatives:** Choose an alternate site
- **Mitigation**
  - Contact your **Field or Regional Environmental Officer** (</programs/environmental-review/hud-environmental-staff-contacts/>)
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers. See *The Noise Guidebook* (</resource/313/hud-noise-guidebook/>)
  - Construct noise barrier. See the **Barrier Performance Module** (</programs/environmental-review/bpm-calculator/>)

## Tools and Guidance

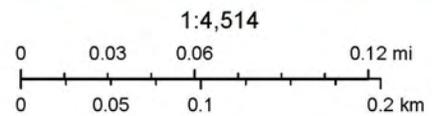
Day/Night Noise Level Assessment Tool User Guide (</resource/3822/day-night-noise-level-assessment-tool-user-guide/>)

Day/Night Noise Level Assessment Tool Flowcharts (</resource/3823/day-night-noise-level-assessment-tool-flowcharts/>)



July 13, 2020

 Site Location



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Source: Image courtesy of NEPAAssist.

NO.	DATE	REVISION NOTE	BY

Drawn By:	Project #:
AH	3357
Checked By:	Date:
AAH	7/13/2020
Project Mgr.:	File Name:
JC	3357-001-01

TITLE
<b>Figure 14 - Wild and Scenic Rivers Map</b> East Lake Scattered Sites Birmingham, AL

# Airport Noise Worksheet

**Use this worksheet to identify information needed to evaluate a site's exposure to aircraft noise.**

Name and Location of Project: East Lake, Birmingham, AL      Date: 10 July 2020  
Name of Airport: BHM Shuttlesworth      Person completing worksheet: Audrey Henson

1. Determine if the proposed site/project is within 15 miles of a civil or military airport.

- No. Attach a map identifying the location of the proposed project site and the location of any airports. This worksheet is not required.
- Yes. Attach a map identifying the location of the proposed project site and the location of any airports. Continue

2. Determine the number of operations at the airport by:

- Going to: <http://www.gcr1.com/5010web/>
- Type in the name of the city press search
- Find your airport.
- Open the report under "Print 5010"
- Complete section 3 below by using the information found in the report (see arrow #1 in the example below)

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		AIRPORT MASTER RECORD		PRINT DATE: 10/30/2012 AFD EFF 09/20/2012 Form Approved OMB 2120-0015	
> 1 ASSOC CITY: KENAI      4 STATE: AK      LOC ID: ENA      FAA SITE NR: 50410 *A > 2 AIRPORT NAME: KENAI MUNI      5 COUNTY: KENAI-COOK INLET AK 3 CBD TO AIRPORT (NM): 00 N      6 REGION/ADO: AAL/NONE      7 SECT AERO CHT: ANCHORAGE					
<b>GENERAL</b>		<b>SERVICES</b>		<b>BASED AIRCRAFT</b>	
10 OWNERSHIP: PU	70 FUEL: 100LL A	90 SINGLE ENG: 54	91 MULTI ENG: 7	92 JET: 0	
11 OWNER: CITY OF KENAI	71 AIRFRAME RPRS: MINOR	TOTAL: 81			
12 ADDRESS: 210 FIDALGO ST KENAI, AK 99611	72 PWR PLANT RPRS: MINOR	93 HELICOPTERS: 0	94 GLIDERS: 0	95 MILITARY: 0	
13 PHONE NR: 907-283-7951	73 BOTTLE OXYGEN: NONE	96 ULTRA-LIGHT: 0			
14 MANAGER: MARY BONDURANT	74 BULK OXYGEN: NONE				
15 ADDRESS: 305 N WILLOW SUITE 200 KENAI, AK 99611	75 TSNT STORAGE: TIE				
16 PHONE NR: 907-283-7951	76 OTHER SERVICES: CARGO, CHTR, INSTR, RNTL				
> 17 ATTENDANCE SCHEDULE: ALL      MON-FRI      0800-1700		<b>FACILITIES</b>		<b>OPERATIONS</b>	
18 AIRPORT USE: PUBLIC	80 ARPT BCN: CG	100 AIR CARRIER: 1,045	102 AIR TAXI: 23,263	103 G A LOCAL: 6,326	
19 ARPT LAT: 60-34-23.9044N ESTIMATED	81 ARPT LGT SKED: SEE RMK	104 G A ITNRNT: 6,429	105 MILITARY: 3,115	TOTAL: 40,178	
20 ARPT LONG: 151-14-41.2000W	83 WIND INDICATOR: YES-L	OPERATIONS FOR 12 MONTHS ENDING 12/01/2011			
21 ARPT ELEV: 99.0 SURVEYED	84 SEGMENTED CIRCLE: YES				
22 ACREAGE: 1200	85 CONTROL TWR: YES				
23 RIGHT TRAFFIC: 01L, 19W	86 FSS: KENAI				
24 NON-COMM LANDING: NO	87 FSS ON ARPT: YES				
	88 FSS PHONE NR: 800-478-3576				

3. Determine if the annual number of operations for air carriers #100, air taxis #102, military #105, and general aviation #103 plus #104 exceeds thresholds.

Annual air carrier operations	__33994.	Is this 9000 or more	Yes __x_ No _
Annual air taxi operations	__20366.	Is this 18,000 or more	Yes__x__No_x_
Annual military operations	__10037.	Is this 18,000 or more	Yes____No_x_
Annual general aviation operations	__40450	Is this 72000 or more	Yes____No_x_

1. If you answer “No” on each of the questions above, it is assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airport. Maintain the documentation in your Environmental Review Record. You are finished with the evaluation of airport noise for this airport. If you have marked any question in #3 with “Yes,” continue to 5.
2. Contact the airport manager, (see arrow #2 above) and ask them if the airport has noise contour maps. Are contour maps available?
  - Yes. Locate your project on the noise contour map. If there are no roads or railroads that are being considered for noise, utilize the information from the contour map to determine if the site is acceptable. If roads or railroads are being considered input the information obtained from the airport noise contours, along with the road and railroad information in the HUD [Noise Assessment Guidelines](#) (NAG) or the online tool at <https://www.hudexchange.info/environmental-review/dnl-calculator>.
  - No. Construct the approximate DNL contours by using the guidance on page 52 and 53 of the [NAG](#). You will need to obtain the following information from the airport: 1). The number of nighttime jet operations (10pm to 7 am) 2). The number of daytime jet operations (7 am to 10 pm) 3). The flight paths of the major runways. 4). Any available information about expected changes in airport traffic (e.g. will the number of operations increase or decrease in the next 10 to 15 years).

**Contact your HUD Representative if you need assistance**



> 1 ASSOC CITY: BIRMINGHAM 4 STATE: AL LOC ID: BHM FAA SITE NR: 00164.\*A  
 > 2 AIRPORT NAME: BIRMINGHAM-SHUTTLESWORTH INTL 5 COUNTY: JEFFERSON AL  
 3 CBD TO AIRPORT (NM): 04 NE 6 REGION/ADO: ASO/JAN 7 SECT AERO CHT: ATLANTA

<b>GENERAL</b>		<b>SERVICES</b>		<b>BASED AIRCRAFT</b>	
> 10 OWNERSHIP:	PUBLIC	> 70 FUEL:	100LL A	90 SINGLE ENG:	73
> 11 OWNER:	BIRMINGHAM AIRPORT AUTHORITY	> 71 AIRFRAME RPRS:	MAJOR	91 MULTI ENG:	43
> 12 ADDRESS:	5900 MESSER AIRPORT HWY BIRMINGHAM, AL 35212	> 72 PWR PLANT RPRS:	MAJOR	92 JET:	102
> 13 PHONE NR:	(205) 599-0505	> 73 BOTTLE OXYGEN:	NONE	TOTAL:	218
> 14 MANAGER:	RONALD MATHIEU	> 74 BULK OXYGEN:	HIGH/LOW	93 HELICOPTERS:	4
> 15 ADDRESS:	BIRMINGHAM AIRPORT AUTHORITY, 5900 MESSER BIRMINGHAM, AL 35212	75 TSNT STORAGE:	HGR, TIE	94 GLIDERS:	0
> 16 PHONE NR:	(205) 599-0505	76 OTHER SERVICES:	AFRT, AMB, AVNCS, CARGO, CHTR, INSTR, RNTL, SALES, SURV	95 MILITARY:	8
> 17 ATTENDANCE SCHEDULE:				96 ULTRA-LIGHT:	0
ALL	ALL	ALL			
		<b>FACILITIES</b>		<b>OPERATIONS</b>	
18 AIRPORT USE:	PUBLIC	> 80 ARPT BCN:	CG	100 AIR CARRIER:	33,994
19 ARPT LAT:	33-33-50.0000N ESTIMATED	> 81 ARPT LGT SKED :	BCN LGT SKED :	102 AIR TAXI:	20,366
20 ARPT LONG:	086-45-08.3000W		SS-SR	103 G A LOCAL:	2,354
21 ARPT ELEV:	650.0 SURVEYED	> 82 UNICOM:	122.950	104 G A ITRNRT:	38,096
22 ACREAGE:	2,170	> 83 WIND INDICATOR:	YES-L	105 MILITARY:	10,037
> 23 RIGHT TRAFFIC:	NO	84 SEGMENTED CIRCLE:	NONE	TOTAL:	104,847
> 24 NON-COMM LANDING:	NO	85 CONTROL TWR:	YES	OPERATIONS FOR	
25 NPIAS/FED AGREEMENTS:	NGPY	86 FSS:	ANNISTON	12 MONTHS	
> 26 FAR 139 INDEX:	I C S 05/1973	87 FSS ON ARPT:	NO	ENDING:	12/31/2019
		88 FSS PHONE NR:			
		89 TOLL FREE NR:	1-800-WX-BRIEF		

<b>RUNWAY DATA</b>		<b>06/24</b>	<b>18/36</b>
> 30 RUNWAY INDENT:		12,007	7,099
> 31 LENGTH:		150	150
> 32 WIDTH:		ASPH-G	ASPH-G
> 33 SURF TYPE-COND:		GRVD	GRVD
> 34 SURF TREATMENT:		175.0	75.0
35 GROSS WT: S		205.0	170.0
36 (IN THSDS) D		350.0	240.0
37 2D			
38 2D/2D2			
> 39 PCN:		65 /F/C/X/T	45 /F/C/X/T
<b>LIGHTING/APCH AIDS</b>			
> 40 EDGE INTENSITY:	HIGH	MED	
> 42 RWY MARK TYPE-COND:	PIR - F / PIR - F	NPI - G / NPI - G	- / -
> 43 VGSI:	P4L / P4L	P4L /	/
44 THR CROSSING HGT	68 / 69	51 /	/
45 VISUAL GLIDE ANGLE:	3.00 / 3.00	3.20 /	/
> 46 CNTRLN-TDZ:	Y - Y / Y - N	- / -	- / -
> 47 RVR-RVV:	TMR - Y / TMR - N	- / -	- / -
> 48 REIL:	/	Y / Y	/
> 49 APCH LIGHTS:	ALS2 / MALSR	/	/
<b>OBSTRUCTION DATA</b>			
50 FAR 77 CATEGORY	PIR / PIR	C / C	/
> 51 DISPLACED THR:	/ 1,205	/	/
> 52 CTLG OBSTN:	TREES / GND	TREES / TREES	/
> 53 OBSTN MARKED/LGTD:	/	/	/
> 54 HGT ABOVE RWY END:	58 / 67	245 / 62	/
> 55 DIST FROM RWY END:	1,290 / 1,323	5,689 / 1,340	/
> 56 CNTRLN OFFSET:	654R / 610R	883R / 210L	/
57 OBSTN CLNC SLOPE:	18:1 / 16:1	22:1 / 18:1	/
58 CLOSE-IN OBSTN:	N / Y	N / N	/
<b>DECLARED DISTANCES</b>			
> 60 TAKE OFF RUN AVBL (TORA):	12,007 / 12,007	7,099 / 7,099	/
> 61 TAKE OFF DIST AVBL (TODA):	12,007 / 12,007	7,099 / 7,099	/
> 62 ACLT STOP DIST AVBL (ASDA):	12,007 / 12,007	7,099 / 7,099	/
> 63 LNDG DIST AVBL (LDA):	12,007 / 10,801	7,099 / 7,099	/

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

A 049 RWY 24 MALSR ATCT CTLD, OPS UMMONITORED.

A 057 APCH SLOPE 25:1 DUE TO 44 FT POLE, 4424 FT FROM DSPLCD THR.

A 058 RWY 24 NAVAID SHELTER 149 FT FM RWY END, 405 FT L, 1 FT ABV RWY END ELEV.

A 070 A++100 (MIL)

A 110-002 TWY G RSTRD TO ACFT 65000 LBS OR LESS.

A 110-003 TWY M N OF RWY 6/24 RSTRD TO ACFT 75000 LBS OR LESS.

A 110-006 TWY N RSTRD TO ACFT 204000 LBS OR LESS.

A 110-007 BIRD ACTV INVOF RWYS.

A 110-015 TWY F BTN RWY 18/36 & TWY G RSTRD TO ACFT 100000 LBS OR LESS.

A 110-016 ANG: PPR RQR FOR ANG RAMP. NML OPR HRS 1300-2330Z++ TUE-FRI, CLSD WKND & HOL. NO SVC AVBL OUTSIDE THESE HRS WITHOUT PRIOR APVL. NO LCL OR ROUND-ROBIN FLT BY TRAN ACFT. CALL AIRFIELD OPS DSN 778-2555, C205-714-2555 FOR PPR 72 HR PRIOR (96 HRS FOR CARGO MSN). ALL INBD ACFT CTC ANG COMD POST "DIXIE CONTROL" NO LATER THAN 15 MIN PRIOR TO LDG WITH PPR NR AND SUPPORT REQ. SPACE-A CAPABILITIES EXTREMELY LTD. PAX SVC LTD AVAILABILITY.

A 110-017 TWY H S OF TWY H4 RSTRD TO ACFT WITH WINGSPAN LESS THAN 117 FT.

A 110-018 TWY A BTN TWY A HLDG BAY AND TWY A3 RSTRD TO ACFT WITH WINGSPAN LESS THAN 150 FT.

111 INSPECTOR: (F) 112 LAST INSP: 03/11/2020 113 LAST INFO REQ:

> 1 ASSOC CITY: \*\*\*CONTINUED\*\*\* 4 STATE: AL LOC ID: BHM FAA SITE NR: 00164.\*A  
 > 2 AIRPORT NAME: 5 COUNTY:  
 3 CBD TO AIRPORT (NM): 6 REGION/ADO: ASO/JAN 7 SECT AERO CHT:

**GENERAL**

10 OWNERSHIP:  
 > 11 OWNER:  
 > 12 ADDRESS:  
 > 13 PHONE NR:  
 > 14 MANAGER:  
 > 15 ADDRESS:  
 > 16 PHONE NR:  
 > 17 ATTENDANCE SCHEDULE:

**SERVICES**

> 70 FUEL:  
 > 71 AIRFRAME RPRS:  
 > 72 PWR PLANT RPRS:  
 > 73 BOTTLE OXYGEN:  
 > 74 BULK OXYGEN:  
 75 TSNT STORAGE:  
 76 OTHER SERVICES:

**BASED AIRCRAFT**

90 SINGLE ENG:  
 91 MULTI ENG:  
 92 JET:  
 TOTAL:  
 93 HELICOPTERS:  
 94 GLIDERS:  
 95 MILITARY:  
 96 ULTRA-LIGHT:

**FACILITIES**

> 80 ARPT BCN:  
 > 81 ARPT LGT SKED :  
 BCN LGT SKED:  
 > 82 UNICOM:  
 > 83 WIND INDICATOR:  
 84 SEGMENTED CIRCLE:  
 85 CONTROL TWR:  
 86 FSS:  
 87 FSS ON ARPT:  
 88 FSS PHONE NR:  
 89 TOLL FREE NR:

**OPERATIONS**

100 AIR CARRIER:  
 102 AIR TAXI:  
 103 G A LOCAL:  
 104 G A ITNRNT:  
 105 MILITARY:  
 TOTAL:  
 OPERATIONS FOR  
 12 MONTHS  
 ENDING:

18 AIRPORT USE:  
 19 ARPT LAT:  
 20 ARPT LONG:  
 21 ARPT ELEV:  
 22 ACREAGE:  
 > 23 RIGHT TRAFFIC:  
 > 24 NON-COMM LANDING:  
 25 NPIAS/FED AGREEMENTS:  
 > 26 FAR 139 INDEX:

**RUNWAY DATA**

> 30 RUNWAY INDENT:  
 > 31 LENGTH:  
 > 32 WIDTH:  
 > 33 SURF TYPE-COND:  
 > 34 SURF TREATMENT:  
 35 GROSS WT: S  
 36 (IN THSDS) D  
 37 2D  
 38 2D/2D2  
 > 39 PCN:

**LIGHTING/APCH AIDS**

> 40 EDGE INTENSITY:	- / -	- / -	- / -	- / -
> 42 RWY MARK TYPE-COND:	/	/	/	/
> 43 VGSI:	/	/	/	/
44 THR CROSSING HGT	/	/	/	/
45 VISUAL GLIDE ANGLE:	/	/	/	/
> 46 CNTRLN-TDZ:	- / -	- / -	- / -	- / -
> 47 RVR-RVV:	- / -	- / -	- / -	- / -
> 48 REIL:	/	/	/	/
> 49 APCH LIGHTS:	/	/	/	/

**OBSTRUCTION DATA**

50 FAR 77 CATEGORY	/	/	/	/
> 51 DISPLACED THR:	/	/	/	/
> 52 CTLG OBSTN:	/	/	/	/
> 53 OBSTN MARKED/LGTD:	/	/	/	/
> 54 HGT ABOVE RWY END:	/	/	/	/
> 55 DIST FROM RWY END:	/	/	/	/
> 56 CNTRLN OFFSET:	/	/	/	/
57 OBSTN CLNC SLOPE:	/	/	/	/
58 CLOSE-IN OBSTN:	/	/	/	/

**DECLARED DISTANCES**

> 60 TAKE OFF RUN AVBL (TORA):	/	/	/	/
> 61 TAKE OFF DIST AVBL (TODA):	/	/	/	/
> 62 ACLT STOP DIST AVBL (ASDA):	/	/	/	/
> 63 LNDG DIST AVBL (LDA):	/	/	/	/

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

111 INSPECTOR: ( F ) 112 LAST INSP: 03/11/2020 113 LAST INFO REQ:

**SUMMARY OF THE  
PART 150  
NOISE COMPATIBILITY PROGRAM**

*BIRMINGHAM INTERNATIONAL AIRPORT*



**December 2004**

## **NOTICE OF THE CONTENTS**

The contents of this Executive Summary are excerpts from Volume 1 of the three-volume set, Noise Compatibility Program Part 150 Noise Study Update. Detailed and comprehensive information can be found in the full three-volume set on display at surrounding local libraries and at the offices of the Birmingham Airport Authority. Airport Authority offices are open Monday through Friday between the hours of 8:30 a.m. and 4:00 p.m.

## EXECUTIVE SUMMARY

### SECTION 8.0 (Excerpt) RECOMMENDED NOISE COMPATIBILITY PROGRAM

#### 8.1 INTRODUCTION

The Birmingham Airport Authority (BAA) previously sponsored the development of a Noise Compatibility Program (NCP) for BHM under the Part 150 process in 1986. The BAA is committed to continue the implementation of some of the program elements from BHM's previous NCP, which gained FAA approval on November 22, 1989, and include the following:

- Encouraging the use of Aircraft Noise Abatement Takeoff/Approach Procedures as outlined in FAA Advisory Circular 91-53A and the National Business Aircraft Association Procedures;
- Development of buffer areas as determined by the Redevelopment Plan

The objective of this recent noise compatibility planning process for BHM is to improve the compatibility between aircraft operations and noise-sensitive land uses while allowing the airport to continue to serve its role in the community. The result of this planning process is an updated noise exposure map and a recommended NCP. Specific recommended NCP element summaries follow. The following recommendations are for the approval from the BAA.

Noise contours resulting from the recommended noise compatibility program are shown superimposed over the existing land use base map on **Figure 8.1**. The total area within the DNL 65+ dB noise contours, as shown on **Figure 8.1**, for the *2007 Future Condition Noise Exposure Map, With Program Implementation*, is estimated to be 2.6 square miles. **Figure 8.1** also delineates the Mitigation Program Area (MPA). Noncompatible land uses within the MPA include residential uses, Curry Elementary School, and five (5) churches.

The existing and future NEMs were made available for public review and comment at numerous community meetings held throughout the course of the study. During these meetings, the public was invited to share their views and opinions on the NEMs, NCP, and all aspects of the study process. Further detail on public involvement and comments regarding the NEMs and NCP is contained in Volumes 2 and 3 of the Part 150 Noise Study.

Several operational, land use, and program management alternatives were evaluated by the study team for their potential effectiveness at BHM. In accordance with Part 150 §B150.7, noise control alternatives must be considered and presented for which the airport operator has adequate implementation authority, for which the implementation authority is vested in a local governing body, and for which authority is vested in the FAA or other Federal agency. For BHM, the Birmingham Airport Authority is charged with the management and operation of the airport, whereas, the City of Birmingham is the local governing body of property directly surrounding the airport.

**Section 8.2** contains measures for which the BAA is seeking FAA approval under the Part 150 process.

## **8.2 ALTERNATIVES RECOMMENDED FOR FAA APPROVAL**

The following subsections summarize program elements for which authority is vested in the FAA. Therefore, the Birmingham Airport Authority is requesting FAA approval of the following elements.

### **8.2.1 OPERATIONAL NOISE ABATEMENT MEASURES**

**Development of Buffer Areas.** Tree belts should be designed and planted on the perimeter of airport property that borders residential areas as recommended in the 1989 Redevelopment Plan and approved under the 1989 NCP. An example of the aesthetic enhancement of property by construction of a barrier of vegetation and trees can be seen in **Figure 8.6**. All tree belt designs and plantings need to consider and comply with FAA AC 150/5320-14 and FAR Part 77. Development of buffer areas would cost approximately \$2.1 million; however, this cost is included in the acquisition costs described below.

The estimated cost of buffer development increased from \$1.8 million to \$2.1 million due to incorporation of Airport Highlands.

### **8.2.2 LAND USE MITIGATION MEASURES**

**Acquisition of All Homes and Relocation of All Residents Located in the Mitigation Program Area.** There are approximately 755 single-family residences, 1 duplex, 1 multi-family residence, and 1 undetermined building located within the Mitigation Program Area. Purchase of all developed residential parcels and relocation of all residents within the Mitigation Program Area would cost approximately \$83 million.

Due to incorporation of Airport Highlands, the number of single family residences increased from 656 to 755. The estimated cost to purchase all developed residential parcels and relocation of all residents increased from \$73 million to \$83 million.

**Acquisition of Curry Elementary School.** Curry Elementary School (7900 8<sup>th</sup> Avenue North) is located in the Mitigation Program Area. Purchase of this school would cost approximately \$490,000.

**Acquisition of All Churches Located in the Mitigation Program Area.** Five churches are located in the Mitigation Program Area: Lake Highlands United Methodist Church (8300 6<sup>th</sup> Avenue North), Calvary Resurrection Christian Church (8440 5<sup>th</sup> Avenue North, 8437 6<sup>th</sup> Avenue North, and 8500 85<sup>th</sup> Street North), Glorious Pentecostal Church (8709 17<sup>th</sup> Avenue North), Mt. Olive Baptist Church (1616 87<sup>th</sup> Avenue North), and Mt. Zion Baptist Church (9215 6<sup>th</sup> Avenue North and 521 93<sup>rd</sup> Street North). Purchase of all churches within the Mitigation Program Area would cost approximately \$3.3 million.

Glorious Pentecostal Church and Mt. Olive Baptist Church were added to the mitigation program due to incorporation of Airport Highlands. The estimated total cost to purchase all churches increased from \$3.1 million to \$3.3 million.

**Acquisition of All Commercial Parcels Located in the Mitigation Program Area.** There are five commercial properties located within the Mitigation Program Area: two adjacent commercial properties located in North East Lake (8627 5<sup>th</sup> Avenue North and 426 87<sup>th</sup> Street North), Earnest Johnson Funeral Home located in Zion City (8531 Zion City Road), a commercial property located in Airport Highlands (1311 90<sup>th</sup> Street North), and auto related property located in North Zion City (809 90<sup>th</sup> Place North). Normally, commercial properties are considered compatible land uses in the vicinity of airports. However, in this case, since all the surrounding developed properties are to be acquired for the purpose of changing the land use, these four properties should be included in this comprehensive land acquisition program. Purchase of these five commercial properties would cost approximately \$427,000.

Due to incorporation of Airport Highlands, a commercial property located in Airport Highlands was added to the mitigation program. The estimated total cost to purchase all commercial properties increased from \$295,000 to \$427,000.

**No Acquisition of Vacant Parcels and/or Undeveloped Property Located in the Mitigation Program Area.** There are approximately 229 vacant parcels located within the Mitigation Program Area. Purchase of all vacant parcels within the Mitigation Program Area would cost approximately \$7.3 million. The primary purpose for acquiring and relocating persons from noise-impacted areas is to reduce the level of noise exposure and its affect on the human environment, i.e., on occupants of residential dwellings or other noise-sensitive facilities. If the vacant / undeveloped parcels were not acquired, or the acquisition was deferred until all developed/occupied parcels were acquired, the dollars associated with acquiring and administering the purchase of the vacant property could be used to acquire other developed/occupied parcels. Therefore, acquisition of vacant parcels and/or undeveloped property is not recommended.

Due to incorporation of Airport Highlands, the number of vacant parcels increased from 103 to 229. The estimated cost to purchase all vacant parcels increased from \$3.3 million to \$7.3 million.

### **8.3 IMPLEMENTATION PLAN**

Primary responsibility for implementation of all recommended measures rests with the BAA. **Table 8.1** indicates the implementation responsibility and estimated cost of each recommended measure. It is anticipated that the FAA will play an important and substantial role in funding the implementation of several of the measures.

The BAA intends to fund the implementation of grant-eligible NCP recommendations through the utilization of Federal funding through the noise set-aside of the Airport Improvement Program (AIP). The BAA anticipates that \$4 to \$8 million per year in AIP funding will be available to them for implementation of the recommended program. However, the FAA's approval of the NCP recommendations does not constitute a commitment by the FAA to financially assist in the implementation of the program nor a determination that all measures covered under the program are eligible for grant-in-aid funding from the FAA under the Airport and Airway Improvement Act of 1982. As a result, implementation of these recommendations will progress as funding becomes available. The *Vision 100 – Century of Aviation Reauthorization Act of 2003* stipulates that the Federal share is 95 percent, through Fiscal Year 2007. The BAA will provide the 5 percent matching share. Following Fiscal Year 2007, the Federal share may return to 90 percent, with the BAA providing 10 percent matching share.

**Figure 8.8** illustrates the phasing plan for implementation of the recommended land acquisition program, based on an AIP funding level of \$4 to \$8 million per phase. **Table 8.2** delineates the number of parcels anticipated cost per phase. A summary of the proposed implementation plan is shown in **Table 8.3**.

FAR Part 150 §150.21(d) indicates that if any change in the operation of BHM would create any “substantial, new noncompatible use” in any area depicted on the map beyond that which is forecast for the *2007 Future Condition, With Program Implementation*, the BAA shall promptly prepare and submit a revised NEM. If such a revision to the NEM becomes necessary, the NCP will be revised accordingly.

**TABLE 8.1**

**SUMMARY OF RECOMMENDED NOISE COMPATIBILITY PROGRAM  
Birmingham International Airport  
FAR Part 150 Program Update**

<b>No.</b>	<b>Description of Land Use Mitigation Measure</b>	<b>Estimated Cost</b>	<b>Benefit or Cost to Local Residents</b>	<b>Timing</b>	<b>Responsibility</b>	<b>Potential Funding Sources</b>
1	Acquisition of all homes and relocation of all residents located in the Mitigation Program Area.	\$83 million	Removes residents from areas of significant noise exposure.	2004 – 2018	Birmingham Airport Authority	FAA AIP Grant Funds
2	Acquisition of Curry Elementary School.	\$490,000	Removes a noise-sensitive educational facility from an area of significant noise exposure.	2017 – 2019	Birmingham Airport Authority	FAA AIP Grant Funds
3	Acquisition of all churches located in the Mitigation Program Area.	\$3.3 million	Removes noise-sensitive public/semi-public facilities from areas of significant noise exposure.	2005 – 2019	Birmingham Airport Authority	FAA AIP Grant Funds
4	Acquisition of all commercial parcels located in the Mitigation Program Area.	\$427,000	Completes the comprehensive land acquisition program in the MPA.	2004 – 2017	Birmingham Airport Authority	FAA AIP Grant Funds

**TABLE 8.2**

**MITIGATION PROGRAM IMPLEMENTATION PLAN  
Birmingham International Airport  
FAR Part 150 Program Update**

<b>2002 Market Value 1.5</b>	<b>Relocation &amp; Moving Expenses \$27,000 \$9,750</b>	<b>Demolition \$4,400 Clearing/Grubbing \$2,500</b>	<b>Buffer \$2,650</b>	<b>Administrative &amp; Appraisal Costs \$23,284</b>	<b>TOTAL</b>
--------------------------------------	--	---	---------------------------	--	--------------

<b>SUMMARY</b>							
755	Single Family Detached	\$37,125,561	\$20,385,000	\$5,209,500	\$2,000,750	\$17,579,420	\$82,300,231
1	Duplex	\$31,770	\$19,500	\$6,900	\$2,650	\$23,284	\$84,104
1	Multi-Family	\$350,430	\$19,500	\$6,900	\$2,650	\$23,284	\$402,764
1	Auto Related	\$3,525	Unknown	\$6,900	\$2,650	\$23,284	\$36,359
1	Undetermined	\$41,955	\$27,000	\$6,900	\$2,650	\$23,284	\$101,789
8	Church	\$3,074,505	Unknown	\$55,200	\$21,200	\$186,272	\$3,337,177
1	School	\$450,000	Unknown	\$13,800	\$2,650	\$23,284	\$489,734
4	Commercial	\$259,665	Unknown	\$27,600	\$10,600	\$93,136	\$391,001
772	<b>TOTAL</b>	<b>\$41,337,411</b>	<b>\$20,451,000</b>	<b>\$5,333,700</b>	<b>\$2,045,800</b>	<b>\$17,975,248</b>	<b>\$87,143,159</b>

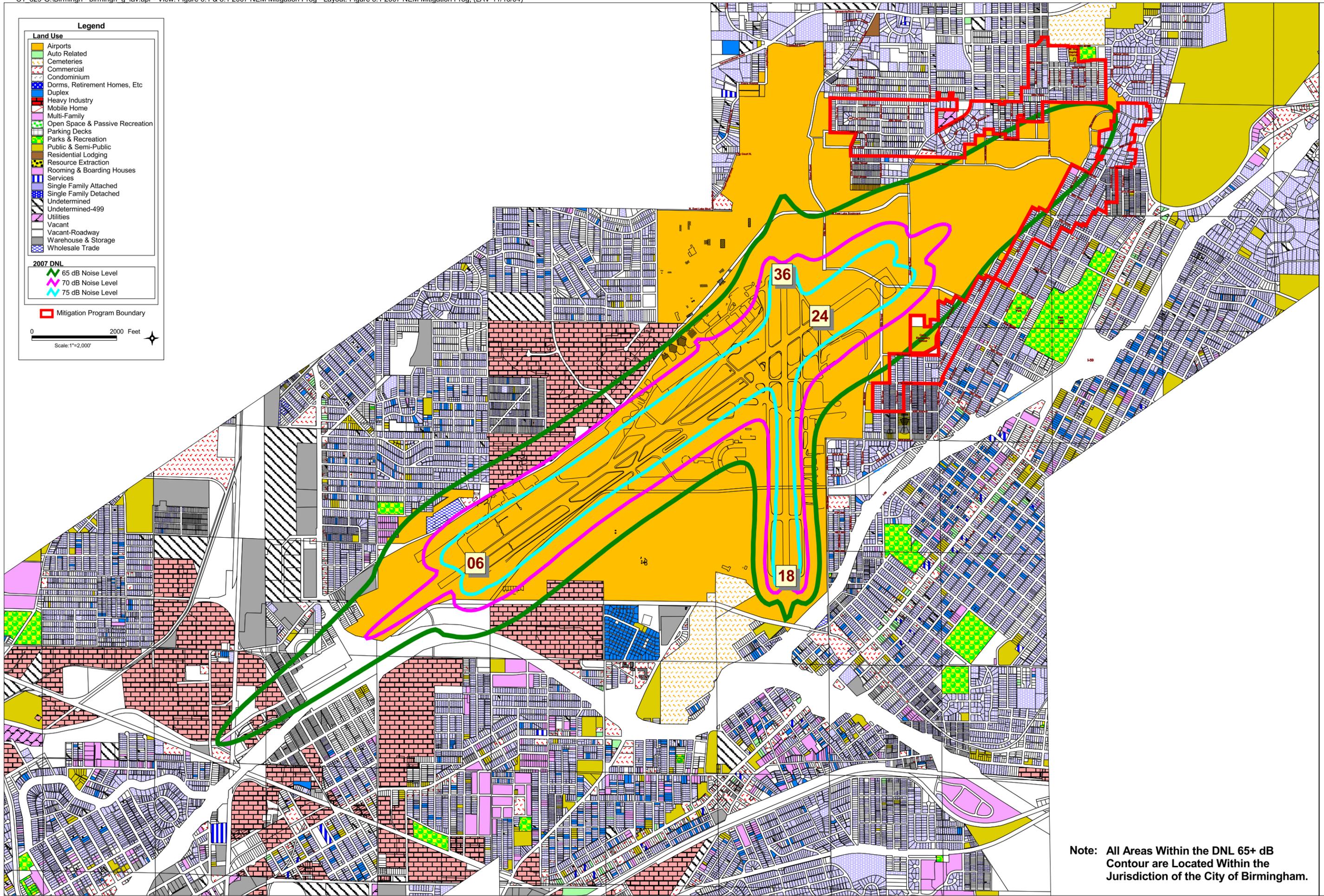
**Note: 2002 Market Value is based on data obtained in 1998 from the Jefferson County Tax Assessor, with a factor of 1.5 applied. Relocation, Moving Expenses, Demolition, Clearing/Grubbing, Buffer, Appraisals, and Administration costs are estimated. Relocation and Moving Expenses for schools, churches, and commercial properties are not included in this estimate.**

**TABLE 8.3**

**SUMMARY OF PROPOSED IMPLEMENTATION PLAN  
Birmingham International Airport  
FAR Part 150 Program Update**

<b>Phase</b>	<b>Neighborhood Description</b>	<b>Estimated Cost</b>	<b>FAA AIP Funding (95%)</b>	<b>BAA Matching Share (5%)</b>	<b>Fiscal Year for Funding to be Requested</b>	<b>Implementation Years if Funding is Available</b>
1	Rosalind Heights (Zion City)	\$7,633,634	\$7,251,952	\$381,682	2004	2004 – 2006
2a	Zion City and Airport Highlands	\$4,786,269	\$4,546,956	\$239,313	2005	2005 – 2007
2b	Zion City and Airport Highlands	\$6,318,639	\$6,002,707	\$315,932	2006	2006 – 2008
3a	North Zion City and Airport Highlands	\$5,481,409	\$5,207,339	\$274,070	2007	2007 – 2009
3b	North Zion City and Airport Highlands	\$4,801,082	\$4,561,028	\$240,054	2008	2008 – 2010
4a	North East Lake – Area 1 and Airport Highlands	\$4,810,963	\$4,570,415	\$240,548	2009	2009 – 2011
4b	North East Lake – Area 1 and Airport Highlands	\$5,063,533	\$4,810,356	\$253,177	2010	2010 – 2012
5	North East Lake – Area 2	\$7,068,974	\$6,715,525	\$353,449	2011	2011 – 2013
6	North East Lake – Area 3	\$7,649,260	\$7,266,797	\$382,463	2012	2012 – 2014
7	North East Lake – Area 4	\$7,384,537	\$7,015,310	\$369,227	2013	2013 – 2015
8	North East Lake – Area 5	\$8,082,331	\$7,678,214	\$404,117	2014	2014 – 2016
9	North East Lake – Area 6	\$7,672,311	\$7,288,695	\$383,616	2015	2015 – 2017
10	Roebuck	\$7,238,664	\$6,876,731	\$361,933	2016	2016 – 2018
11	Curry School, NE Lake Churches	\$3,151,555	\$2,993,977	\$157,578	2017	2017 – 2019

Note: The *Vision 100 – Century of Aviation Reauthorization Act of 2003* stipulates that the Federal share is 95 percent, through Fiscal Year 2007. The BAA will provide the 5 percent matching share. Following Fiscal Year 2007, the Federal share may return to 90 percent, with the BAA providing 10 percent matching share.



**Legend**

**Land Use**

- Airports
- Auto Related
- Cemeteries
- Commercial
- Condominium
- Dorms, Retirement Homes, Etc
- Duplex
- Heavy Industry
- Mobile Home
- Multi-Family
- Open Space & Passive Recreation
- Parking Decks
- Parks & Recreation
- Public & Semi-Public
- Residential Lodging
- Resource Extraction
- Rooming & Boarding Houses
- Services
- Single Family Attached
- Single Family Detached
- Undetermined
- Undetermined-499
- Utilities
- Vacant
- Vacant-Roadway
- Warehouse & Storage
- Wholesale Trade

**2007 DNL**

- 65 dB Noise Level
- 70 dB Noise Level
- 75 dB Noise Level

Mitigation Program Boundary

0 2000 Feet  
Scale: 1"=2,000'

Birmingham International Airport  
FAR Part 150 Program Update

**MITIGATION PROGRAM AREA WITH 2007 NEM  
WITH PROGRAM IMPLEMENTATION**

Note: All Areas Within the DNL 65+ dB Contour are Located Within the Jurisdiction of the City of Birmingham.

Figure 8.1  
11/16/04



**BEFORE**



**AFTER**

Source: URS Corporation, 2002.



**VEGETATION AND TREE BARRIER /  
BUFFER AREA EXAMPLE**

**FIGURE  
8.6**

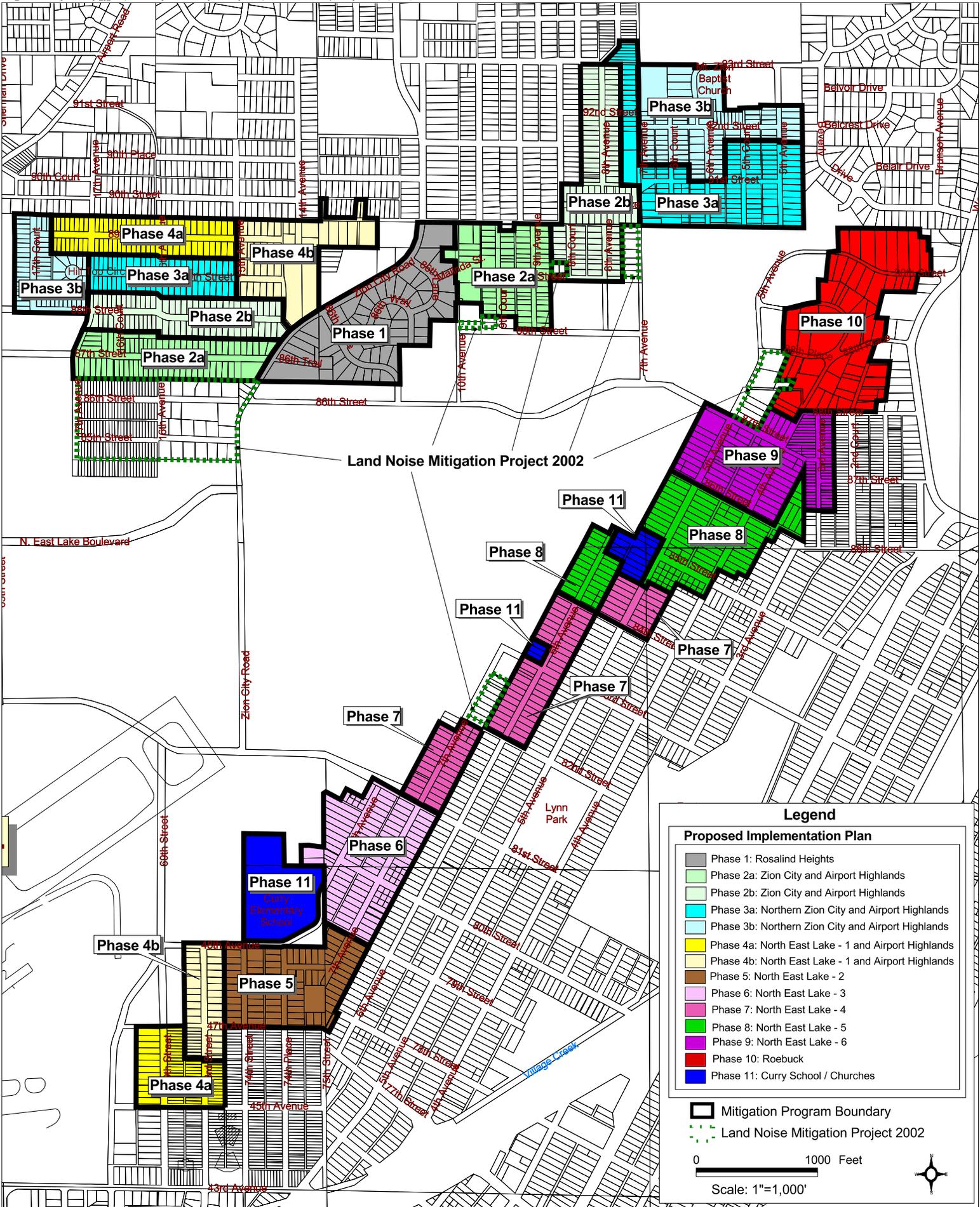


Figure 8.8 12/17/04

### Mitigation Program Implementation Plan

Birmingham International Airport FAR Part 150 Program Update



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## **Sole Source Aquifers (CEST and EA) - PARTNER**

<https://www.hudexchange.info/environmental-review/sole-source-aquifers>

### **1. Is the project located on a sole source aquifer (SSA)<sup>1</sup>?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.*

Yes → *Continue to Question 2.*

### **2. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?**

Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

No → *Continue to Question 3.*

### **3. Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer?**

Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

Yes → *Continue to Question 4.*

No → *Continue to Question 5.*

### **4. Does your MOU or working agreement exclude your project from further review?**

Yes → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

No → *Continue to Question 5.*

### **5. Will the proposed project contaminate the aquifer and create a significant hazard to public health?**

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow

---

<sup>1</sup> A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

- No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.*
- Yes → *The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

A map indicating that the target property is not located in a SSA is provided in Appendix A (Figure 13).



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## Wetlands (CEST and EA) – Partner

<https://www.hudexchange.info/environmental-review/wetlands-protection>

**1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building’s footprint, or ground disturbance?**

The term "new construction" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any structures or facilities.

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Yes → *Continue to Question 2.*

**2. Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

Yes → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

**3. Does Section 55.12 state that the 8-Step Process is not required?**

No, the 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD’s elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

5-Step Process is applicable per 55.12(a).

**Provide the applicable citation at 24 CFR 55.12(a) here.**

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.*

8-Step Process is inapplicable per 55.12(b).

**Provide the applicable citation at 24 CFR 55.12(b) here.**

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

8-Step Process is inapplicable per 55.12(c).

**Provide the applicable citation at 24 CFR 55.12(c) here.**

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) map (Appendix A – Figure 14), new construction will not impact a wetland.

## Wild and Scenic Rivers (CEST and EA) – PARTNER

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General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development.	The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c))	36 CFR Part 297
References		
<a href="https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers">https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers</a>		

### 1. Is your project within proximity of a NWSRS river as defined below?

**Wild & Scenic Rivers:** These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

Study Rivers: These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

Nationwide Rivers Inventory (NRI): The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

No

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.

Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

→ Continue to Question 2.

**2. Could the project do *any* of the following?**

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

- No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

- Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

## **Worksheet Summary**

### **Compliance Determination**

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

Per attached map (Appendix A – Figure 15), project is not located near wild/scenic river.

**Are formal compliance steps or mitigation required?**

Yes

No



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## Environmental Justice (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/environmental-justice>

**HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.**

**1. Were any adverse environmental impacts identified in any other compliance review portion of this project’s total environmental review?**

Yes → *Continue to Question 2.*

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

**2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?**

Yes

**Explain:**

Click here to enter text.

→ *The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.*

No

**Explain:**

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

### Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

There were no adverse impacts or RECs identified based on a site reconnaissance, historical documentation, a review of the EDR database report, and the results of a Phase II ESA.