## PHASE I ENVIRONMENTAL SITE ASSESSMENT

**FOR** 

NEW INDUSTRIAL PARK (SITE 14)
OLD DAIRY ROAD PARCEL
LAURENS COUNTY, SC

PREPARED FOR

LAURENS COUNTY DEVELOPMENT CORPORATION
291 PROFESSIONAL PARK ROAD
CLINTON, SC 29325

APRIL 26, 2018

T&H J - 26942.0004

Prepared by:



# THOMAS & HUTTON

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#### 1.0 EXECUTIVE SUMMARY

Thomas & Hutton was retained by the Laurens County Development Corporation to conduct a Phase I Environmental Site Assessment (ESA) on an approximately 86.1-acre parcel of property located on Old Dairy Road, Gray Court, South Carolina in Laurens County (subject property). The Phase I ESA was completed in accordance with the guidelines set forth by the American Society for Testing and Materials (ASTM) Standard of Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process (Designation EI527-13).

Section 3.0 - Site Description, Section 4.0 - User Provided Information, Section 5.0 - Record Review, Section 6.0 - Site Reconnaissance, and Section 7.0 - Interviews provided the basis for the findings (Section 8.0), and conclusions (Section 10.0), of this Phase I ESA. Using the practically reviewable reasonably ascertainable information along with visual observations, the findings with respect to recognized environmental conditions are as follows.

On-site concerns and recognized environmental conditions:

- There are some areas of minimal miscellaneous dumping, which will need to be removed and disposed of properly, but is not considered a recognized environmental concern based on the visual inspection of the material present.
- Based on available information, Thomas & Hutton did not identify the likely presence of an on-site recognized environmental condition for the subject property.

Off-site concerns and recognized environmental conditions:

 Based on available information, Thomas & Hutton did not identify the likely presence of an off-site recognized environmental condition for the subject property.

#### 2.0 INTRODUCTION

#### 2.1 Purpose

The Phase I ESA was conducted to identify, to the extent feasible, recognized environmental conditions associated with the parcel of property located on Old Dairy Road, Gray Court, South Carolina. The property is comprised of an approximate 86.1-acre parcel of property defined as TMS 188-00-00-003 in Laurens County, South Carolina. For the purpose of this ESA recognized environmental conditions means the presence or likely presence of any hazardous substances or petroleum products on the property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property, or onto the ground, into the ground water or surface water of the subject property. A historical recognized environmental condition is 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.

#### 2.2 Scope of Services

The scope of services for the ESA included the following tasks:

- 1. Review the reasonably ascertainable regulatory agency environmental database reports and confirm the location and distance of problem sites to the property during the walking inspection of the property;
- 2. Review of selected, available standard historical sources such as topographic maps, available aerial photographs, environmental reports, etc.;
- Perform a visual reconnaissance of the property and surrounding properties to search for evidence of prior or ongoing sources of contamination;
- 4. Interview available individuals familiar with past and present property uses activities, and operations; and
- 5. Preparation of the Phase I ESA report in ASTM E1527-13 format summarizing the assessment observations and findings.

#### 2.3 Significant Assumptions

The opinions included herein are based on practical review of reasonable and ascertainable information obtained during the investigation and our experience on similar projects. If additional information becomes available, we request the opportunity to review the information, reassess the potential concerns, and modify our opinions and conclusions.

Significant assumptions refer to assumptions that can have an impact on conclusions drawn by an environmental professional. The significant assumptions made in conducting this Phase I ESA are as follows:

 Thomas & Hutton performed a walk-through of the open spaces present at the Site for reconnaissance. Based on these methods, Thomas & Hutton did not encounter any conditions to suggest that the unobserved portions of the subject property were significantly different from observed portions of the subject property. Therefore, we assume the parts not inspected by Thomas & Hutton are similar in all aspects to those parts of the subject property that were inspected during the site visit.

 The slope of the groundwater table, without interference from pumping or injections, often approximates land surface topography in the area where the subject property is located. Therefore, groundwater movement is assumed to be in approximately the same direction as the topographic slope.

#### 2.4 Limitations and Exceptions

#### 2.4.1 Limitations

In connection with the tasks performed during this assessment, Thomas & Hutton has exercised reasonable efforts to employ the highest professional standards applicable in the industry today. The findings and conclusions provided in this Phase I ESA Report are based on the results of the site reconnaissance, review of regulatory and historical records, and interviews with persons knowledgeable of the subject property and properties in the surrounding area. Thomas & Hutton cannot guarantee however, that the review of land histories has necessarily yielded complete or usable information, or that our preliminary evaluation of the site conditions revealed all possible sources of contamination. Because of these and other limitations, this study has included the application of judgment to scientific principles. To that extent certain results of this work may be based on subjective interpretations. There can be no assurance that definitive or desired results have been obtained, or that they are supportive of any given course of action. The information provided under this assessment is not to be construed as legal advice.

ASTM E1527-13 defines a "recognized environmental condition (REC)" as "the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: 1) due to 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."

A "de minimis condition" is a condition that generally does not represent 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. De minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

ASTM E1527-13 defines a "controlled recognized environmental condition (CREC)" as 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). A condition identified as a controlled recognized environmental condition does not imply that the Environmental Professional has evaluated or confirmed the adequacy, implementation or continued effectiveness of the required control that has been, or is intended to be, implemented.

ASTM E1527-13 defines a "historic recognized environmental condition (HREC)" as 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 residential 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 of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria).

ASTM E1527-13 defines a "business environmental risk" as "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".

#### 2.4.2 Exceptions

Exceptions to this Phase I ESA include non-scope items, such as but not totally inclusive of:

- No testing of soil, groundwater, surface water, air, debris, asbestos containing material, lead-based paint, radon, solid waste, hazardous waste, raw material, or product has been performed specifically for the investigation.
- A chain of title search for the property was not conducted as part of this assessment and is considered the responsibility of the user.
- Wetland delineation was not conducted or evaluated as part of this assessment.
- Endangered species survey was not conducted as part of this assessment. Cultural and historic resource studies were not performed as part of this assessment.

#### 2.5 Special Terms and Conditions

No attempts have been made to independently verify information obtained during the investigation. There were no special terms or conditions applied to this Phase I ESA.

#### 2.6 User Reliance

The Phase I ESA is a preliminary assessment that attempts to document the presence of any potential or actual threats to the environment (recognized

environmental conditions) and is not a complete characterization of the property's environmental situation. The Phase I ESA should not be relied upon to completely characterize the property's total environmental situation. The Phase I ESA cannot entirely eliminate all uncertainties regarding the potential for contamination of the soil, groundwater, or surface water. The Phase I ESA is performed to reduce the level of uncertainty and recognizes reasonable limits of time and cost. The findings provided in this Phase I ESA Report will assist the user and user's legal counsel in evaluating potential environmental risks that are associated with property transactions.

This report is provided for the exclusive use of the Laurens County Development Corporation and their subsidiaries and/or affiliates. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties. The use of this report by any undesignated third party or parties will be at such party's sole risk and Thomas & Hutton disclaims liability for any such third-party use or reliance.

According to ASTM E1527-13, certain components of the Phase I ESA will expire 180 days from the date of that component and will require updating if the date of property acquisition exceeds this time period. The entire report will expire in one year. The following table lists the dates for pertinent components.

Component	Date of Initiation	Shelf Life
Environmental Database Search	April 23, 2018	180 days
Site Reconnaissance	April 25, 2018	180 days
Interviews	April 23, 2018	180 days
Environmental Lien Search	Not performed as a part of this Phase I Assessment	180 days
Declaration by Environmental Professional	April 26, 2018	365 days



#### 3.0 SITE DESCRIPTIONS

#### 3.1 Location and Legal Description

This property is comprised of an approximate 86.1-acre parcel, TMS 188-00-00-003 located on Old Dairy Road, Gray Court, South Carolina in Laurens County. The subject property has a southeastern frontage on Friendship Church Road and is bisected by Old Dairy Road. The subject property is bounded on all remaining sides by adjacent properties. The subject property location is shown on Exhibit A in Appendix A. An aerial of the subject property location is shown on Exhibit B in Appendix A.

#### 3.2 Site and Vicinity General Characteristics

#### 3.2.1 Topography

The subject property is located at an elevation ranging from 760 feet at the small stream located at the northeastern corner of the property to 835 feet above mean sea level (msl) towards the southwestern portion of the subject property. The subject property's general topographic gradient is west northwest. The general topographic setting of the subject property is illustrated on the USGS 7.5 minute series topographic quadrangle map for the 2014 Fountain Inn and Woodruff Quadrangles.

#### 3.2.2 **Soils**

The U.S. Department of Agriculture Soil Conservation Service (SCS) classification indicates the soil types at the subject property are primarily Cecil, Madison, Chewcla, and Pacolet (Exhibit D in Appendix A). These soil types are generally well drained, and are classified as Hydrological Group Class B and B/D. Hydrologic group Class B - moderate infiltration, deep and moderately deep, moderately well and well drained soils with moderately coarse textures. Hydrological group Class B/D - Drained soils have moderate infiltration; undrained soils have poor infiltration.

#### 3.2.3 Geology

The subject property is geologically located in the Piedmont Physiographic Region of South Carolina. The region is comprised of plateaus, relatively flat, raised areas of land. They are usually horizontal rises of rock, which were raised by forces of Earth. In South Carolina, the Piedmont region comprises one third of the area of SC and is typically hilly country containing many monadnocks. A monadnock is an isolated hill of bedrock rising conspicuously above the general level of the surrounding area. The Piedmont is underlain by metamorphic rocks of various origins that were folded during the Paleozoic as the North American and African plates converged.

#### 3.2.4 Hydrology

The property is generally well drained. Storm water runoff from the subject property travels as sheet flow towards the low-lying areas on the northwestern sides of the subject property or to the small stream located on the

northeastern side of the subject property. No storm water infrastructure is present at the site.

#### 3.2.5 Hydrogeology

Typically, groundwater flow in the surficial aquifer beneath a site will follow a subdued replica of the surface topography, thus suggesting a probable flow towards the northeast (Exhibit C in Appendix A).

#### 3.2.6 Floodplain

The subject property is located on Panels 45059C0075C and 45059C0100C of the Flood Insurance Rate Map for Laurens County, South Carolina. The map was prepared by the Federal Emergency Management Agency (FEMA). The map indicates that the subject property is located in Flood Zone X. Flood Zone X indicates that the area has minimal flood hazard and is outside the Special Flood Hazard Area (SFHA) and at a higher elevation than that of the 0.2-percent-annual-chance-flood.

#### 3.3 Current Use of the Property

The subject property is currently used for as land for cattle grazing purposes. The subject property is mostly cleared with some wooded areas and evidence of grazing activities onsite. Refer to Section 6 - Site Reconnaissance and Section 7 - Interviews for additional detail concerning property uses and operations.

#### 3.4 Description of Structures, Roads, and Other Improvements

The subject property can be accessed through one (1) gate on Old Dairy Road. The different pastures on the site are also fenced off, gated and locked. There are no standing structures on the site that are actively used. There is a fallen down house and the remains of a concrete building located on the northeastern portion of the subject property. There is also an old cattle pen and watering throughs located on the site.

Utilities available at the subject property include water, sewer, electricity, and natural gas. Water and sewer is provided by Laurens County Water & Sewer Commission. Electricity is provided by the Laurens Electric Co-Op and natural gas is provided by Clinton-Newberry Natural Gas. Refer to Exhibits B in Appendix A for a site aerial, Section 6 - Site Reconnaissance, and Section 7 - Interviews for additional detail concerning the subject property.

#### 3.5 Current Uses of Adjoining Properties

The subject property is situated in a mixed-use area including agricultural, silvicultural, residential and industrial properties. Property adjacent to the north and west is pasture land or silvicultural land. To the east is a residential trailer community called Gray Court Estates. Adjacent property to the south is wooded. The Country Fresh, Inc. facility is located to the southwest of the subject property. This facility produces prepackaged produce products. Area property on all sides is mostly agricultural and silvicultural.

#### 4.0 USER PROVIDED INFORMATION

The purpose of this section is to report the tasks performed by the user Mr. Jonathan Coleman (Laurens County Development Corporation) and communicated to the environmental professional, which includes review of titles and judicial records, specialized knowledge or experience by the user, actual knowledge of the user, reason for a significantly lower purchase/lease price, and commonly known and reasonable obtainable information. Mr. Jonathan Coleman, Laurens County Development Corporation, responded to the requirements of this section. Refer to Section 7 - Interviews for additional details concerning Mr. Jonathan Coleman's interview.

#### 4.1 Review of Titles and Judicial Records

Recorded land title records for recording or filing environmental liens or activity and use limitations have been reviewed by the user to identify the existence of such environmental liens or activity and use limitations and have found no environmental liens or activity use limitations that are material to recognized environmental conditions in connection with the property.

#### 4.2 Specialized Knowledge or Experience by the User

The user has communicated all specialized knowledge or experience that is material to recognized environmental conditions in connection with the property to the environmental professional. Mr. Jonathan Coleman was not aware of any recognized environmental conditions in connection with the property.

#### 4.3 Actual Knowledge of the User

The user has no actual knowledge of any environmental liens or activity use limitations (AULs) encumbering the property or in connection with the property.

#### 4.4 Reason for a Significantly Lower Purchase/Lease Price

The user has compared the purchase/lease price of the subject property to the fair market value of the property and believes that the purchase/lease price has not been influenced by any contamination by hazardous substances or petroleum products.

#### 4.5 Commonly Known and Reasonable Obtainable Information

The user has communicated commonly known or reasonably obtainable information within the local community about the property that is material to recognized environmental conditions in connection with the property to the environmental professional.

#### 4.6 Historical Documents

No historical documents were provided by the user.



#### 5.0 RECORDS REVIEW

A search was performed on federal and state files for environmental problem sites within ASTM standard E 1527-13 search radius. For this search records were obtained from Environmental Data Resources, Inc. The complete Environmental Data Resources, Inc. reports are provided in Appendix B. The database search resulted in no Federal or State listings at the subject property or within the designated search radius of the subject property.

Two (2) orphan sites were returned with the database search. The first of these sites (Houston Property Site) was located and determined to be outside the respective search radii. The second orphan site (Vissage Auto Parts Co.) could not be located but upon examination of the site's history, it was determined that it would not be a REC for the site. This site is discussed in Section 5.2 below.

#### 5.1 Federal Files

The federal environmental data is a compilation of data that identifies environmental problem sites and activities from the records of the United States Environmental Protection Agency (USEPA). The data contained here is the result of a search of an Environmental Data System including but not limited to the following USEPA records:

- 1. The National Priorities (Superfund) List (NPL) is USEPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. To be included on the NPL, a site must either meet or surpass a predetermined hazard ranking score, be chosen as a state's top-priority site, or meet all three of the following criteria: (1) US Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure; (2) USEPA determines that the site represents a significant threat; and (3) USEPA determines that remedial action is more cost effective than removal action.
- 2. The Comprehensive Environmental Response, Compensation and Liability Index System (CERCLIS) is the EPA's compilation of the sites for which USEPA has or is investigating a release of hazardous substances. These sites may be subject to review in accordance with the terms and conditions of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (Superfund Act).
- 3. The Resource Conservation and Recovery Information System (RCRIS) contains information regarding: (1) Large Quantity Generators (LQG); (2) Treatment, Storage, and Disposal (TSD) facilities; and, (3) Small Quantity Generators (SQG), and Transporters, which are required to register their hazardous waste activity under the Resource Conservation and Recovery Act (RCRA). The RCRA Program identifies and tracks hazardous waste from the point of generation to the point of disposal.
- 4. The Emergency Response Notification System (ERNS) is a national computer database system that is used to store information on the release of hazardous substances into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party.

5. No Further Remedial Action Planned Report (NFRAP) contains information pertaining to Sites that have been removed from the EPA's CERCLIS Database.

A search of the federal databases indicated that no Federal sites were located within the search radius. No NPL, RCRIS-LQG, RCRIS-TSD, RCRA CORRACTS, NFRAP, or ERNS sites exist within the search radius. The respective search radii were as follows: NPL - 1.0 mile; RCRIS-SG - 0.25 mile; RCRIS-TSD - 0.5 mile; RCRIS-LG - 0.25 mile; CERCLIS - 0.5 mile; NFRAP - 0.5 mile; RCRA-CORRACTS - 1 mile; SEMS - 1 mile; and ERNS - property only.

#### 5.2 State and Other Files

The state environmental data is a compilation of data that identifies environmental problem sites and activities from the records of the South Carolina Department of Health and Environmental Control (SCDHEC). The data contained here is the result of a search of SCDHEC records, including but not limited to:

- 1. The Underground Storage Tank (UST) list is a comprehensive listing of all registered underground storage tanks located in the state of South Carolina.
- 2. The Leaking Underground Storage Tank (LUST) list is a comprehensive listing if all reported leaking underground storage tanks located in the state of South Carolina.
- 3. The Hazardous Waste Sites (HWS) list is a summary listing pertaining to those facilities located in the state of South Carolina that have been deemed hazardous to the public health and welfare by SCDHEC.
- 4. The South Carolina Permitted Landfills (SWF) list is a summary of information pertaining to all active and inactive licensed solid waste facilities within the state of South Carolina.
- 5. The South Carolina Environmental Facility Information System (SCEFIS) integrates information on environmental facilities, permitting, violations, enforcement actions, and compliance activities to support regulatory requirements, and target environmental quality improvements for the water, air, solid waste, and house waste program areas.
- 6. The Brownfields Public Record (BROWNFIELDS) lists properties where response actions under the South Carolina Hazardous Site Reuse and Redevelopment Act and planned, ongoing or completed.
- 7. The South Carolina Groundwater Contamination Inventory (SCGWCI) is any site that has groundwater contamination over a federal MCL.
- 8. The South Carolina Drycleaning Facility Restoration Trust Fund is used to access, prioritize and cleanup contaminated registered drycleaning sites.
- 9. The SCDHEC Bureau of Land and Waste Management established the RCR registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.
- 10. The VCP lists sites from SCDHEC that are Voluntary Cleanup Sites.

No properties were identified within the specified radii in in EDR's search of the UST, LUST, HWS, SCGWCI, INDIAN LUST, INDIAN UST, FEMA UST, INDIAN VCP, US

BRONWFIELDS, DEBRIS REGION 9, ODI, INDIAN ODI, US CDL, SC CDL, US HIST CDL, LIENS 2, HMIRS, SC SPILLS, SC SPILLS 80, SC SPILLS 90, DOT OPS, DOD, AND CONSENT. One (1) orphan site could not be located and is discussed below.

Sites identified in EDR's review of other databases are summarized below.

Database	Radius Search	Sites Found
Leaking Underground Storage Tanks (LUST) The LUST database is an inventory of reported leaking underground storage tank incidents. This information comes from SC DHEC.	0.5 mile	1

The listed LUST site that was identified but could not be located is:

• Vissage Auto Parts Co., Friendship Church Road, is the orphan site whose position could not be located. This site was the location of one tank that has since been abandoned. The tank was a steel 500-gallon gasoline tank was removed from the site in 1992. One release was reported for the site on October 18, 1995. Cleanup was initiated on June October 7, 1996 and was completed on March 19, 1999. A No Further Action (NFA) status was declared for the site on October 18, 1999. Since the tank has been removed and an NFA has been issued for the site, this site is not considered to be a REC for the subject property.

#### 5.3 Open Dumps

The Open Dump List is an inventory of facilities that do not comply with the EPA's Criteria for Classification of Solid Waste Disposal Facilities and Practices. The subject property is not on the list of open dumps. No other open dumps were observed within a 0.5-mile radius of the property.

#### 5.4 Aerial Photography Review

A review of aerial photographs was conducted on April 24, 2018. The 1938, 1951, 1961, 1964, 1976, 1978, 1981, 1989, 1994, 2006, 2011, and 2015 Environmental Data Resources, Inc. aerial photographs show the subject property. A thirteen-year gap in aerial photography is noted between the years of 1938 and 1951, while a ten-year gap is noted between 1951 and 1961. A twelve-year gap is noted between the years of 1964 and 1976 and an eight-year gap in aerial photography is noted between the years of 1981 and 1989. A twelve-year gap is noted between 1994 and 2006. The quality of evaluation of aerial photography is controlled by the photograph's scale and quality.

In the 1938 and 1951 aerials, the subject property appears to be mostly agricultural. Friendship Church Road and Old Dairy Road are in existence. Properties surrounding the subject property are also mostly agricultural and silvicultural.

In the 1961, 1964, and 1976 aerials, the subject property appears to remain agricultural. A cluster of building is noted on the northeastern portion of the

subject property in the 1976 aerial. Surrounding properties are a mix of agricultural and silvicultural land.

In the 1978 and 1981 aerials of the subject property, the subject property remains agricultural. Adjoining properties to the southwest are silvicultural while adjoining properties to the north and east are agricultural. There appears to be some residential development on the area property to the east of the subject property. There is further development on area properties to the south of the subject

The quality of the 1989 and 1994 aerials is poor and it is difficult to identify any changes to the subject property or surrounding properties.

The 2006 aerial show the subject property to be mostly cleared for agriculture, with a small portion of the property along the northeastern boundary remaining wooded. There is little change to area property to the north and west. On the adjacent property to the east, it appears that a neighborhood has been constructed. On the adjacent property to the south, an industrial facility has been constructed, Country Fresh, Inc.

In the 2011 and 2015 aerials, the subject property remains agricultural. Property to the north and west of the subject property is agricultural and silvicultural, while property to the south is an industrial facility. Property to the east is residential.

#### 5.5 Land Title Records Review

The land chain of title search and final review was not undertaken as part of this assessment.

#### 5.6 Activity Use Limitations

A review of Federal and State records regarding NPL liens or CERCLA liens was not conducted as part of this Phase I ESA.

#### 5.7 Sanborn Map Review

The complete Environmental Data Resources, Inc. Certified Sanborn Map collection was searched for fire insurance maps covering the subject property. No Sanborn Maps were identified for the subject property.

#### 5.8 Vapor Intrusion

Based on review of the readily available federal and state files and visual observation of adjoining properties it appears an offsite vapor encroachment condition associated with the subject property is unlikely to exist.

Visual reconnaissance of the subject property and interviews revealed no on-site historical activities that may present a possible vapor intrusion pathway. Additionally, the EDR VEC App was utilized to evaluate vapor intrusion potential for the subject site. The EDR VEC App provides integrated data, efficient analytical tools, and professional reports to assist in compliance with the requirements of ASTM E2600-10, "Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions." The EDR VEC App did

not identify any sources that could potentially be considered a source for vapor intrusion for the subject property.

#### 6.0 SITE RECONNAISSANCE

Thomas & Hutton personnel conducted a visual reconnaissance of the subject property and surrounding areas on April 25, 2018. The purpose of the reconnaissance was to detect evidence of prior or ongoing activities that may result in a recognized environmental condition. Appendix C contains photographs that provide representative views of the subject property and surrounding area obtained during the subject property visit. The visual reconnaissance consisted of a drive of the roads within 1 mile of the subject property and a walk-through of the subject property.

#### 6.1 Site Reconnaissance

Following are the observations made during the reconnaissance of the subject property and the surrounding area:

#### Subject Property

- The subject property consists of one (1) parcel of property.
- The property Is bisected by Old Dairy Road (Photograph 20). There is one gated entrance to the subject property on Old Dairy Road.
- Land on the west side of the road is used as pasture land for cattle (Photographs 3, 4, 15, 16, 17, 2, 22, 23, and 26 through 30). On the subject property there is an old cattle pen and watering troughs (Photographs 5 and 19).
- Land on the eastern side of Old Dairy Road is mostly wooded (Photographs 24 and 25), with some areas cleared (Photographs 6 and 13).
- There are partial remains of a fallen down house (Photographs 9 through 12) on the northeastern portion of the subject property. There did not appear to be any visual evidence (e.g., vent lines, fill connections) of any underground storage tanks located at this structure.
- There are also partial remains of a concrete structure located near the fallen down house on the subject property (Photograph 14). There did not appear to be any visual evidence (e.g., vent lines, fill connections) of any underground storage tanks located at this structure.
- There was a small amount of miscellaneous dumping on the eastern side of the subject property, including a tire, a metal gate and an empty plastic container (Photographs 7 and 8).
- There was a small wet weather drainage pond located on one of the cattle pastures on the western side of the site (Photograph 18).
- Located at the southeastern corner of the subject property, there was some pad-mounted electrical equipment (Photographs 35 and 36). There was no visual evidence of spills, leaks, staining, stressed vegetation, or odors in this area.

- There were two (2) pole-mounted electrical transformers located on the subject property along Friendship Church Road (Photographs 37 and 38). There was no visual evidence of spills, leaks, staining, stressed vegetation, or odors in these areas.
- There was no visual evidence (e.g., vent lines, fill connections) of any underground storage tanks located at the subject property.
- There was no visual evidence of spills, leaks, staining, stressed vegetation, or odors on the subject property.

#### **Adjoining Property**

- Friendship Church Road forms the southern boundary of the subject property (Photographs 1 and 2).
- Adjacent property to the east includes a residence (Photograph 34) and a residential trailer community called Gray Court Estates (Photographs 31 through 33).
- Country Fresh, Inc. is adjacent to the subject property to the southwest (Photographs 39 through 41). This facility produces prepackaged produce products.
- Adjacent property to the north and south is silvicultural and agricultural.
- There is no visual evidence of any activities on the adjacent properties that would have an environmental impact on the subject property.

#### Area Property

- Area property in all directions is mostly wooded or agricultural.
- Interstate 385 is located in the area property to the south of the site.
- There is no visual evidence of any activities in the surround area that would have an environmental impact on the subject property.

#### 7.0 INTERVIEWS

#### 7.1 Interview with User's Representative

A written interview was conducted with the user's representative, Mr. Jonathan Coleman, Laurens County Development Corporation, on April 23, 2018. Mr. Coleman addressed all of the questions relating to the property use and possible environmental conditions in connection with the subject property in good faith and to the extent of his knowledge. Mr. Coleman was aware that the previous land use of the property was agricultural and that the site is currently being used for cattle farming activities. Mr. Coleman did not have any knowledge or belief that hazardous waste had been disposed on the subject property. Mr. Coleman did not have any direct knowledge of spills or chemical releases occurring on the subject property. Mr. Coleman was not aware of any environmental citations or enforcement actions related to the subject property. Mr. Coleman was not aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property. Mr. Coleman was not aware of any activity and land use limitations that are placed on the subject property or that have been filed or recorded.

#### 7.2 Interview with Owner

A written interview was conducted with the current property owner's representative, Mr. Rusty Hamrick, NAI Earle Furman, on April 25, 2018. Mr. Hamrick addressed all of the questions relating to the property use and possible environmental conditions in connection with the subject property in good faith and to the extent of her knowledge. Mr. Hamrick stated that he was aware that the Phase I ESA was being completed to support the possible lease/sale of the subject property. Mr. Hamrick stated that presently, the property is being leased by a cattle farming tenant and that the land is used to hold the cattle. This was also the previous use of the land. Mr. Hamrick was not aware of any underground storage tanks on the property. He did not know of any environmental concerns on or near the property. He also stated that he was not aware of any hazardous waste generation on-site or disposal of hazardous waste on-site. Mr. Hamrick stated he was not aware of any pending, threatened, or past litigation, administrative proceedings, or notices of violations from any governmental entity relevant to hazardous substances or petroleum products in, on, or from the property. He was also not aware of any environmental liens or activity use limitations on the property. Mr. Hamrick stated that he was not aware of any value reduction of the property for environmental reasons.

#### 7.3 Correspondence with SCDHEC Representative

Ms. Karla York with the SCDHEC Freedom of Information Office was contacted on April 23, 2018 concerning the subject property. On April 25, 2018, correspondence was received stating that no environmental files related to the subject property could be found.

#### 8.0 FINDINGS

Based on Thomas & Hutton's visual reconnaissance of the subject property, review of land use history, review of regulatory files, and conduct of interviews the findings of the Phase I ESA are as follows:

#### On-Site Recognized Environmental Conditions

There is some minimal miscellaneous dumping on the site, which will need to be removed and disposed of properly, but is not considered a recognized environmental concern based on the visual inspection of the material present. There are no on-site recognized environmental conditions identified for the subject property that may be anticipated to have a potential environmental impact on the subject property.

#### Off-Site Recognized Environmental Conditions

There are no off-site recognized environmental conditions identified for the subject property that may be anticipated to have a potential environmental impact on the subject property.

#### 9.0 OPINIONS

The historical use of the property is primarily agricultural and silvicultural. The site is completely fenced and remains locked. There are the remains of two (2) structures present on the northeastern side of the subject property, a concrete block structure and a fallen down house. Given the unknown age of the structures, it is possible that hazardous building materials may be present (e.g., asbestos in roofing materials and lead based paint), which may represent a potential business risk related to the subject property. In the case of demolition, the structures should be evaluated for asbestos containing building materials and lead based paint prior to demolition. All demolition related materials should be handled, stored, and removed in a manner that will not impact the subject property. All demolition related waste streams should be handled, recycle, and/or disposed in accordance with applicable federal, state, and local regulations and laws.

There is a small amount of miscellaneous illegal dumping on the subject property. This material will need to be disposed of properly. Based on visual observation of the material present, it is the environmental professional's opinion that it is not considered a recognized environmental condition.

The Phase I ESA investigation did not identify any onsite or offsite recognized environmental conditions for the subject property that may be anticipated to have a potential environmental impact on the subject property.

#### 10.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope of limitations of ASTM Standard of practice E 1527-13 for the property located on Old Dairy Road, Gray Court, South Carolina in Laurens County consisting of TMS # 188-00-00-003 (86.1 acres). Any exceptions to, or deletions from, this practice are described in Section 2.0 and Section 11.0 of this report. This assessment did not reveal any evidence of any on-site or off-site recognized environmental conditions.

#### 11.0 DEVIATIONS AND DATA GAPS

During the review of standard historical property use information sources data failure occurred. Data failure is considered to occur when all the standard historical use information sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the data objectives have not been met (i.e., all obvious uses of the property shall be identified at five-year intervals from the present, back to the property's first developed use or 1940, whichever is earlier). The historical source review did not identify property use information at five-year intervals back to 1940. However, given the available property use data, the data failure does not constitute a significant data gap and is not considered to have inhibited the overall evaluation of the subject property for recognized environmental conditions.

#### 12.0 ADDITIONAL SERVICES

No additional services beyond the identified scope of work (Section 2.2) have been provided.

#### 13.0 REFERENCES

All references to historical use sources, environmental record sources, and all other documentation are contained with the text of the relevant Sections of this report.

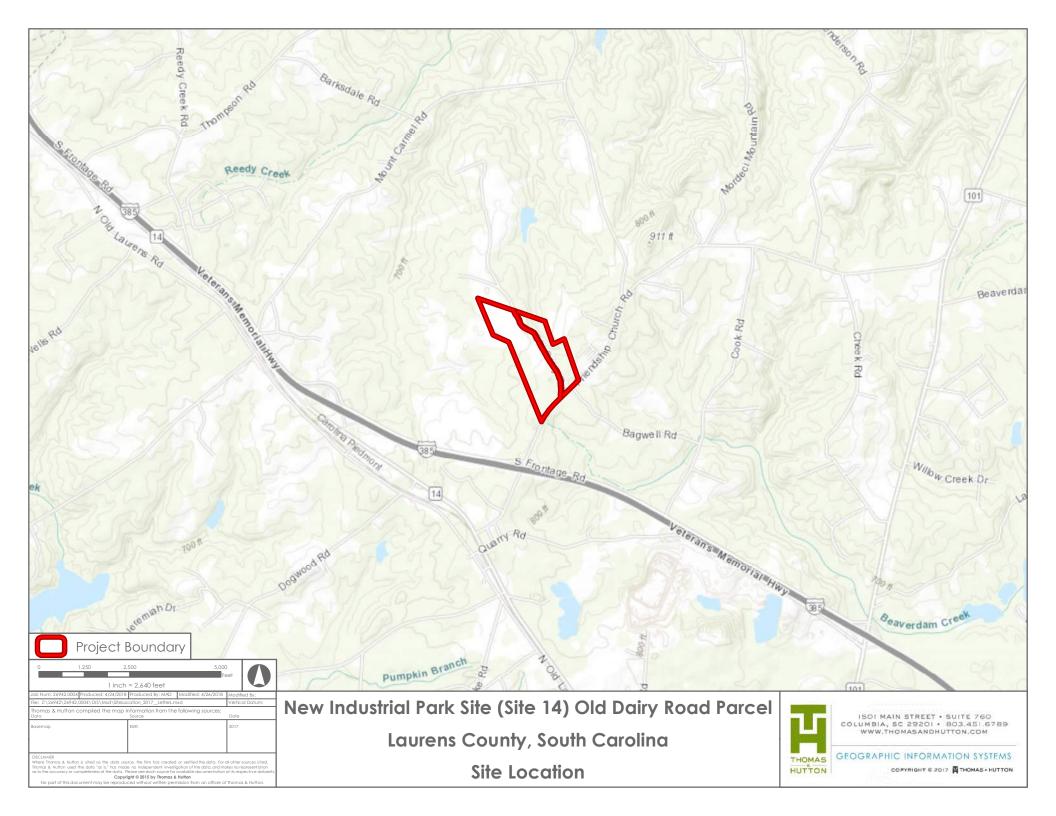
#### 14.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

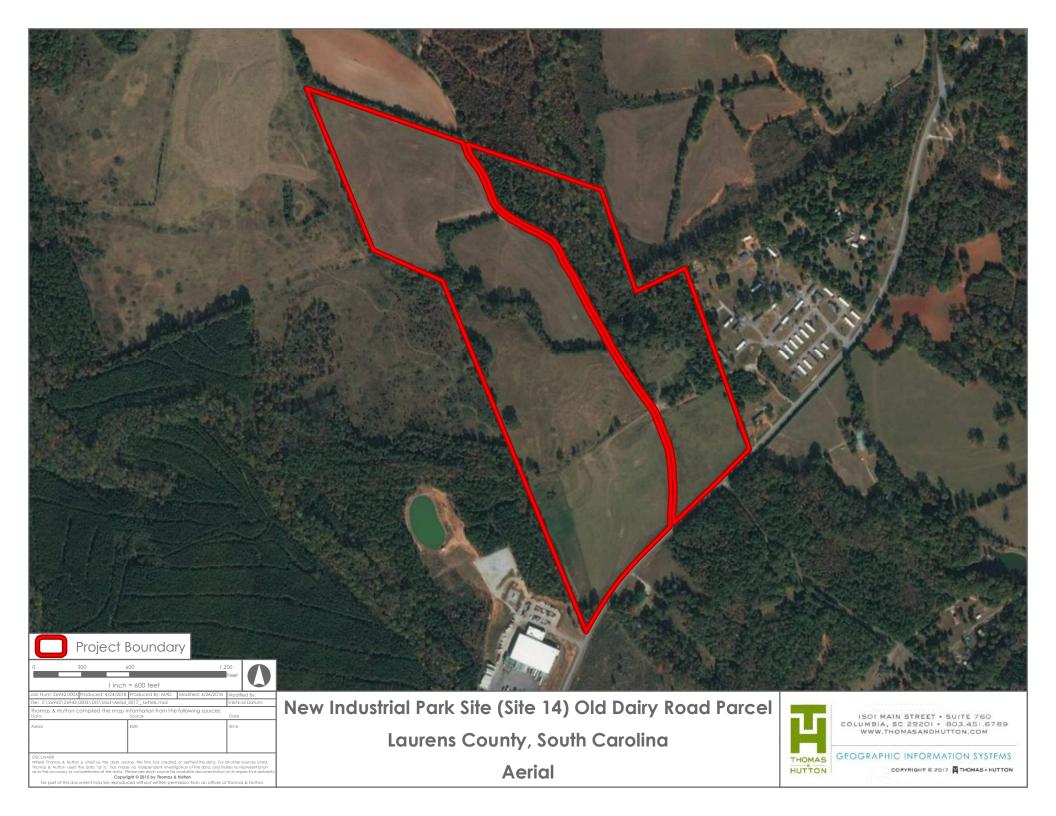
The signature of the Environmental Professional is provided in Appendix E.

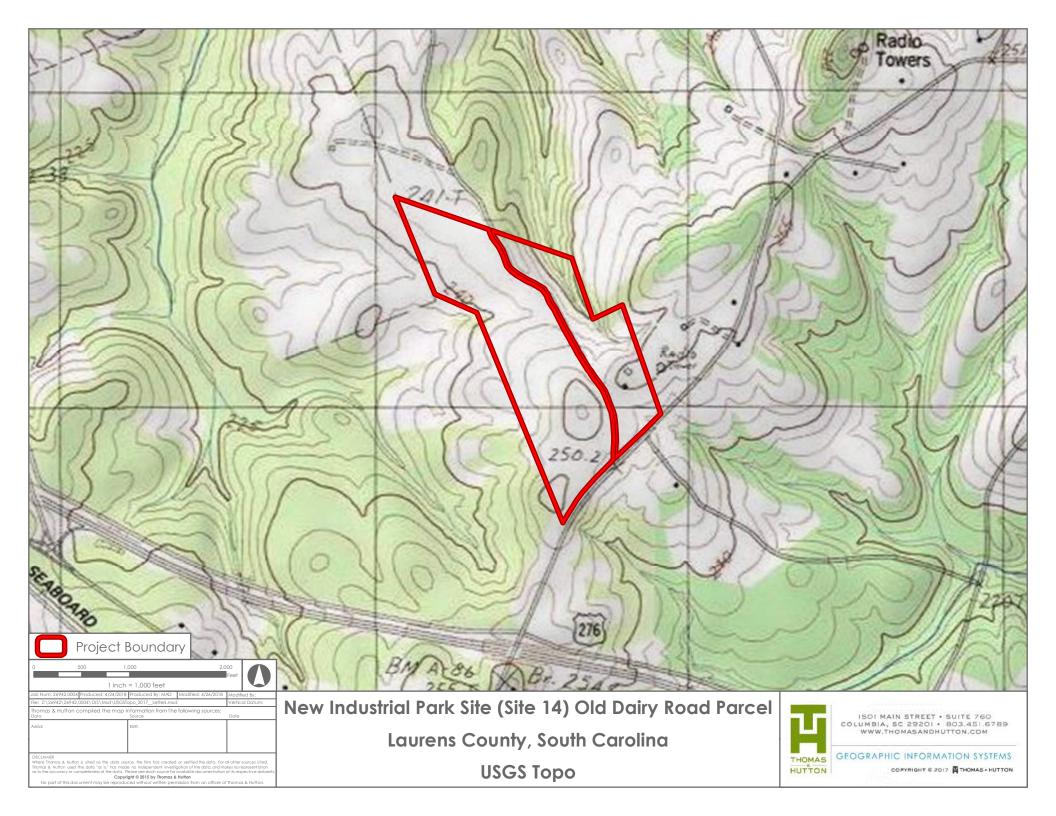
#### 15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

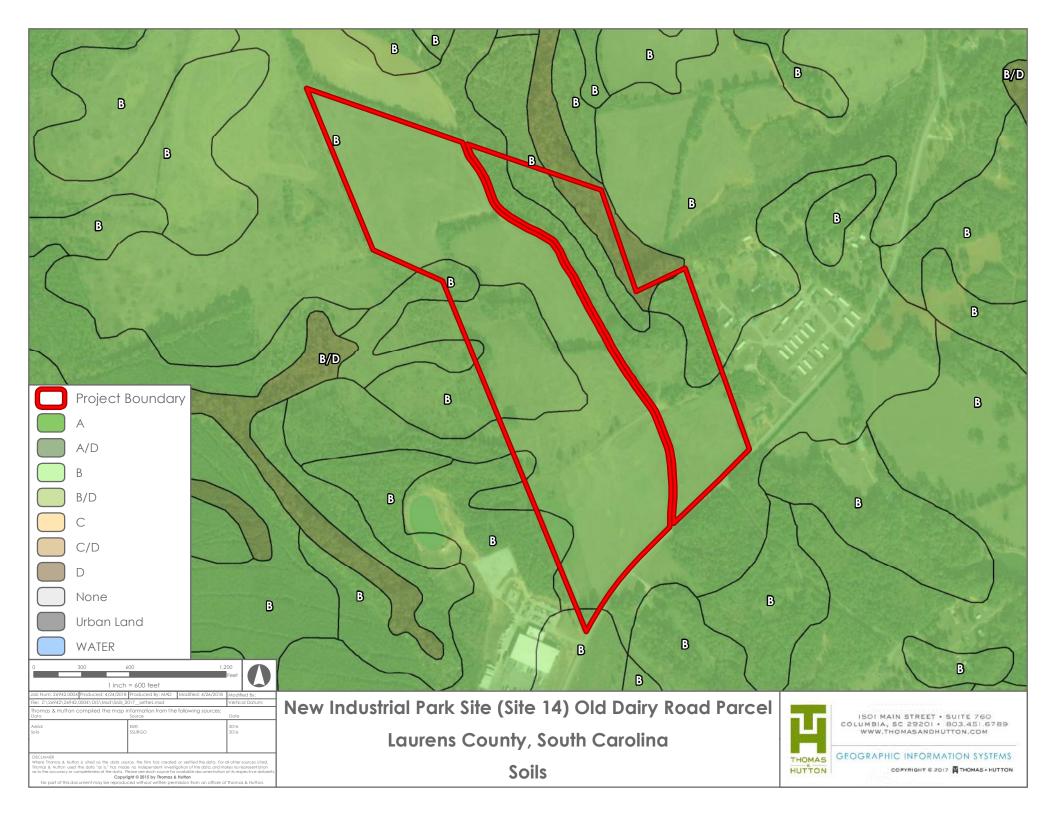
The qualifications of the Environmental Professional are summarized in Appendix F.

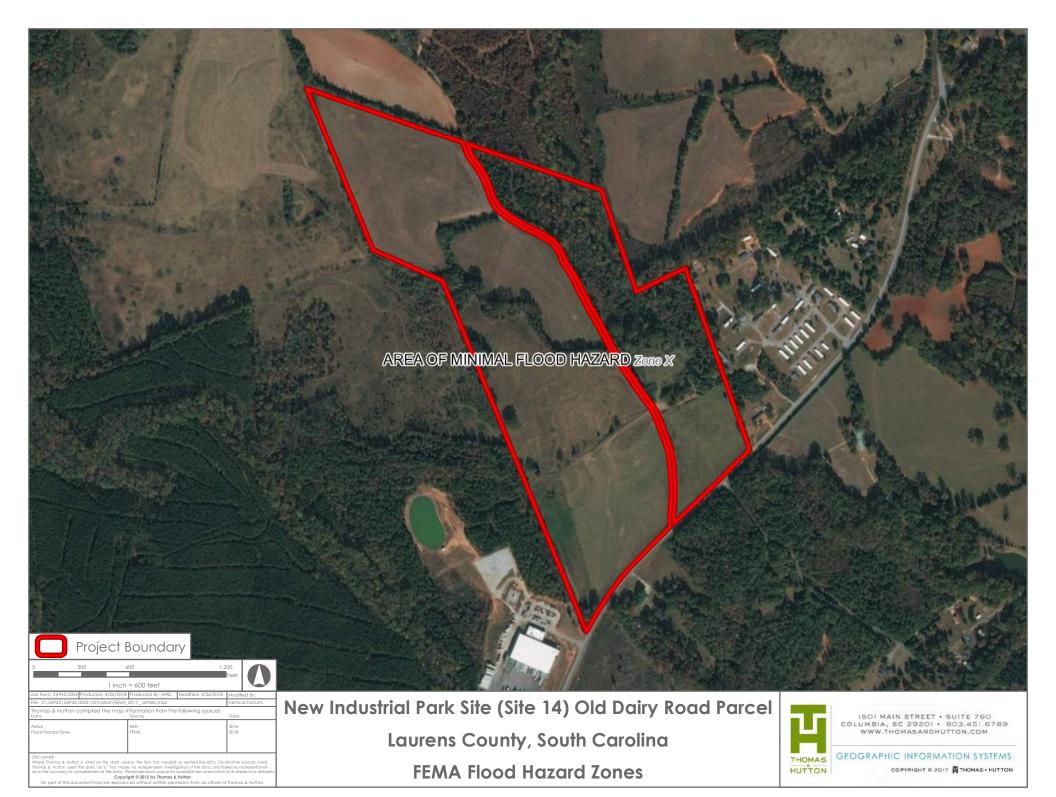
## Appendix A Exhibits

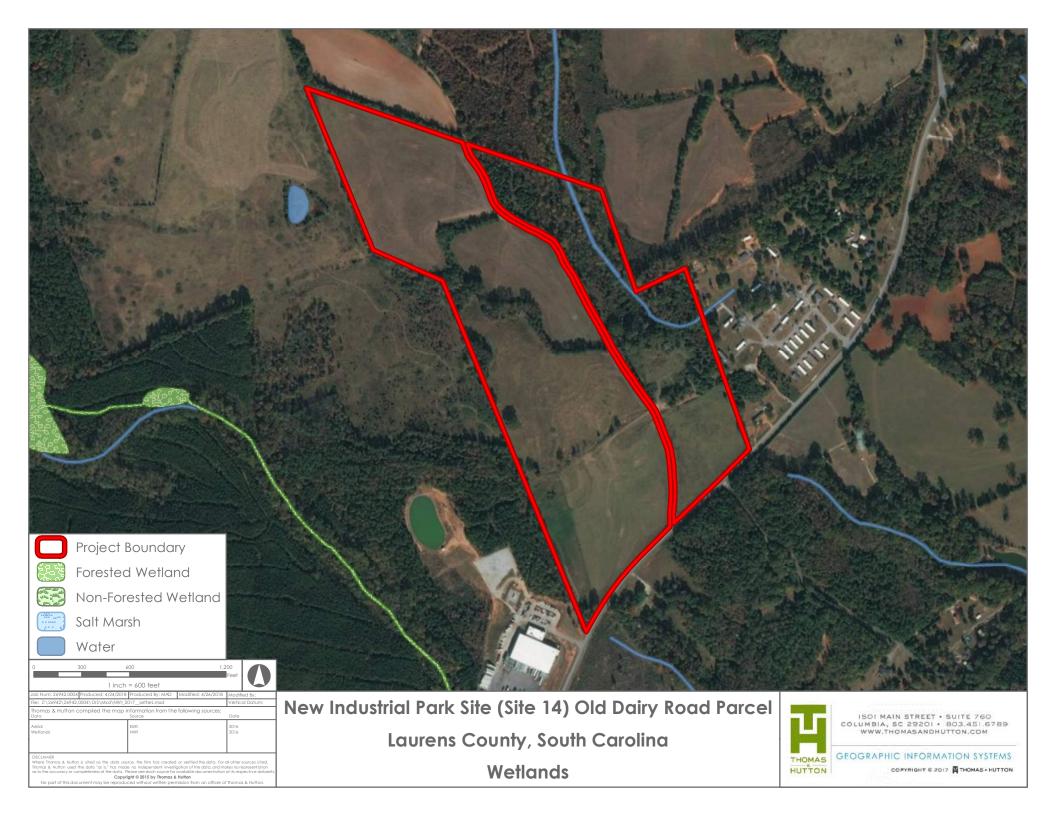












# Appendix B EDR Records Search Report

**Laurens County Site 14 Parcel 3** 

Not Reported Gray Court, SC 29645

Inquiry Number: 5267637.2s

April 23, 2018

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 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.

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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**

NOT REPORTED GRAY COURT, SC 29645

### **COORDINATES**

Latitude (North): 34.6460910 - 34° 38' 45.92" Longitude (West): 82.1278190 - 82° 7' 40.14"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 396638.8 UTM Y (Meters): 3834179.0

Elevation: 820 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6063769 FOUNTAIN INN, SC

Version Date: 2014

Northeast Map: 6063817 WOODRUFF, SC

Version Date: 2014

### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20150424 Source: USDA

### MAPPED SITES SUMMARY

Target Property Address: NOT REPORTED GRAY COURT, SC 29645

Click on Map ID to see full detail.

MAP RELATIVE DIST (ft. & mi.)

ID SITE NAME ADDRESS DATABASE ACRONYMS ELEVATION DIRECTION

NO MAPPED SITES FOUND

### 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	
	National Priority List Proposed National Priority List Sites Federal Superfund Liens
Federal Delisted NPL site	e 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 Correct	ctive	Action	Report
------------------	-------	--------	--------

### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF RC	CRA - Treatment,	Storage and Disposal
--------------	------------------	----------------------

### Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

### Federal institutional controls / engineering controls registries

LUCIS	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls Federal ERNS list ERNS..... Emergency Response Notification System State- and tribal - equivalent CERCLIS SHWS\_\_\_\_\_\_ Site Assessment Section Project List State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Permitted Landfills List State and tribal leaking storage tank lists LUST..... Leaking Underground Storage Tank List INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists FEMA UST..... Underground Storage Tank Listing UST..... Comprehensive Underground Storage Tanks AST..... Aboveground Storage Tank List INDIAN UST..... Underground Storage Tanks on Indian Land State and tribal institutional control / engineering control registries RCR...... Registry of Conditional Remedies AUL.....Land Use Controls State and tribal voluntary cleanup sites ..... Voluntary Cleanup Sites INDIAN VCP..... Voluntary Cleanup Priority Listing State and tribal Brownfields sites BROWNFIELDS..... Brownfields Sites Listing ADDITIONAL ENVIRONMENTAL RECORDS Local Brownfield lists US BROWNFIELDS..... A Listing of Brownfields Sites Local Lists of Landfill / Solid Waste Disposal Sites SWRCY..... Solid Waste Recycling Facilities INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations ..... 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

ALLSITES..... Site Assessment & Remediation Public Record Database

CDL..... Clandestine Drug Lab Sites

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS......Spills Database List

Other Ascertainable Records

RCRA NonGen / NLR\_\_\_\_\_\_ RCRA - Non Generators / No Longer Regulated

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

RAATS...... RCRA Administrative Action Tracking System

ICIS...... Integrated Compliance Information System

FTTS......FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

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

UXO...... Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

AIRS..... Permitted Airs Facility Listing

ASBESTOS..... ASBESTOS

Financial Assurance Financial Assurance Information Listing GWCI Groundwater Contamination Inventory NPDES Waste Water Treatment Facilities Listing UIC Underground Injection Wells Listing

### **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

EDR MGP...... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.... EDR Exclusive Historical Cleaners

### **EDR RECOVERED GOVERNMENT ARCHIVES**

### Exclusive Recovered Govt. Archives

RGA HWS\_\_\_\_\_\_ Recovered Government Archive State Hazardous Waste Facilities List RGA LF\_\_\_\_\_ Recovered Government Archive Solid Waste Facilities List RGA LUST\_\_\_\_\_ Recovered Government Archive Leaking Underground Storage Tank

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

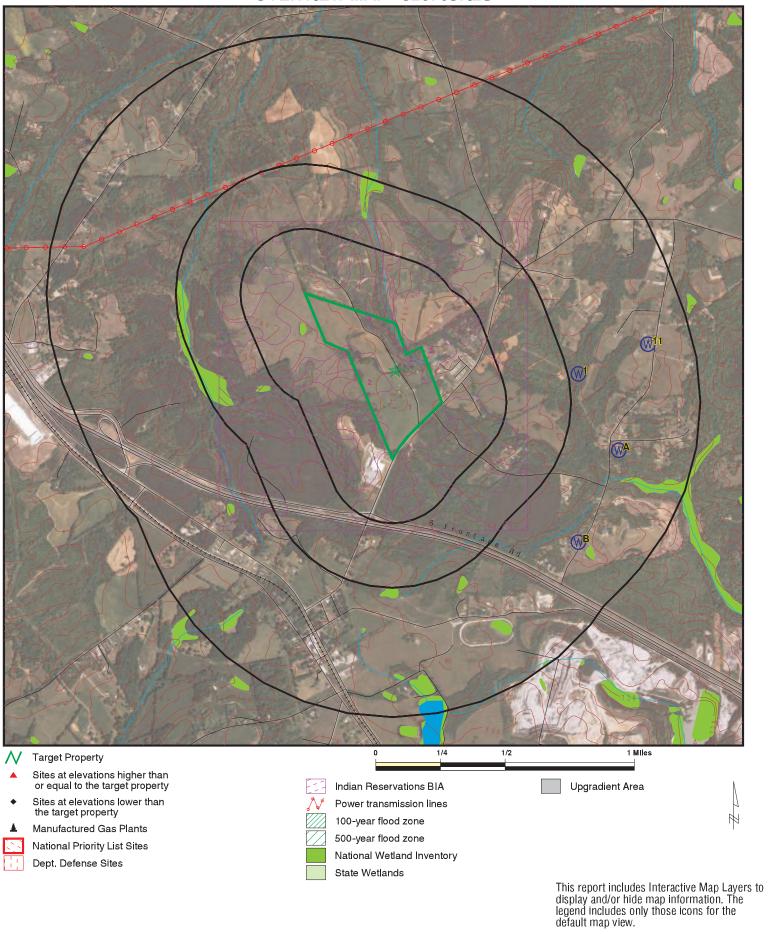
Unmappable (orphan) sites are not considered in the foregoing analysis.

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name Database(s) SHWS HOUSTON PROPERTY SITE LUST, UST

VISSAGE AUTO PARTS CO

# **OVERVIEW MAP - 5267637.2S**



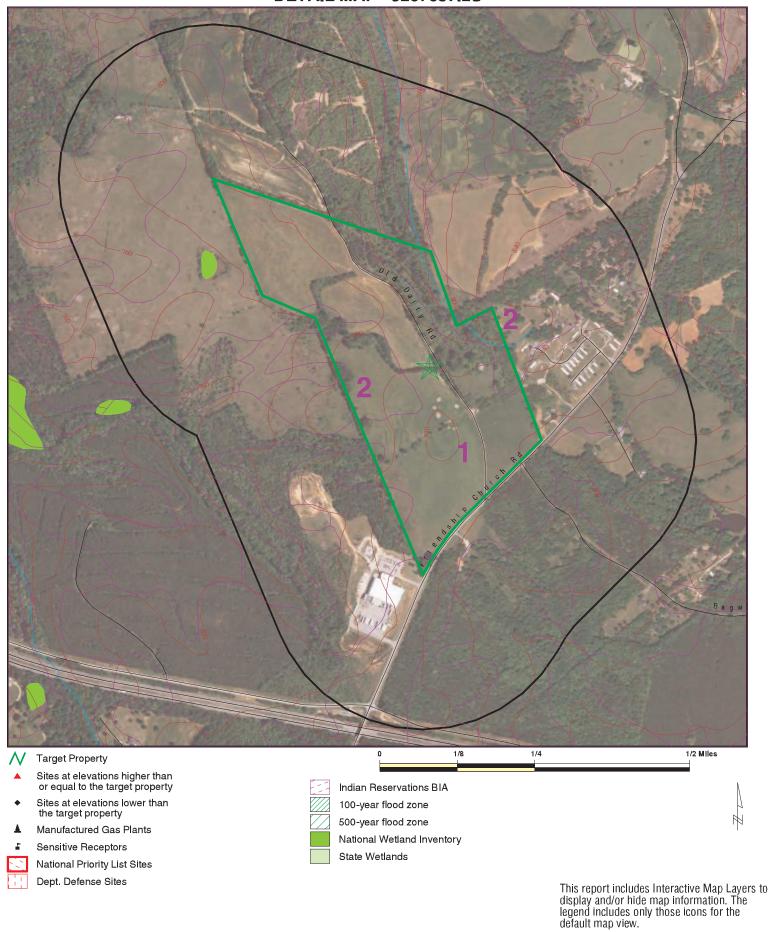
SITE NAME: Laurens County Site 14 Parcel 3

ADDRESS: Not Reported

Gray Court SC 29645 LAT/LONG: 34.646091 / 82.127819 CLIENT: Thomas & Hutton CONTACT: Kate Mccoy INQUIRY #: 5267637.2s

DATE: April 23, 2018 11:07 am

## **DETAIL MAP - 5267637.2S**



SITE NAME: Laurens County Site 14 Parcel 3

Gray Court SC 29645 34.646091 / 82.127819

Not Reported

ADDRESS:

LAT/LONG:

CLIENT: Thomas & Hutton
CONTACT: Kate Mccoy
INQUIRY #: 5267637.2s
DATE: April 23, 2018 11:08 am

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted	
STANDARD ENVIRONMENTAL RECORDS									
Federal NPL site list									
NPL Proposed NPL NPL LIENS	1.000 1.000 0.001		0 0 0	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0	
Federal Delisted NPL site	e list								
Delisted NPL	1.000		0	0	0	0	NR	0	
Federal CERCLIS list									
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
Federal CERCLIS NFRAF	P site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0	
Federal RCRA CORRAC	TS facilities li	st							
CORRACTS	1.000		0	0	0	0	NR	0	
Federal RCRA non-CORRACTS TSD facilities list									
RCRA-TSDF	0.500		0	0	0	NR	NR	0	
Federal RCRA generator	s list								
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0	
Federal institutional con engineering controls reg									
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0	
Federal ERNS list									
ERNS	0.001		0	NR	NR	NR	NR	0	
State- and tribal - equiva	lent CERCLIS	3							
SHWS	1.000		0	0	0	0	NR	0	
State and tribal landfill a solid waste disposal site									
SWF/LF	0.500		0	0	0	NR	NR	0	
State and tribal leaking s	storage tank l	ists							
LUST INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
State and tribal registere	ed storage tan	ık lists							
FEMA UST	0.250		0	0	NR	NR	NR	0	

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal institution control / engineering con								
RCR AUL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup sites	5						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
SWRCY INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL ALLSITES CDL US CDL	0.001 0.500 0.001 0.001		0 0 0	NR 0 NR NR	NR 0 NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency R	Release Report	's						
HMIRS SPILLS SPILLS 90 SPILLS 80	0.001 0.001 0.001 0.001		0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Other Ascertainable Reco	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS	0.250 1.000 1.000 0.500		0 0 0 0	0 0 0 0	NR 0 0 0	NR 0 0 NR	NR NR NR NR	0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		Ö	NR	NR	NR	NR	Ö
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	NR	0
FTTS MLTS	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 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		Ő	NR	NR	NR	NR	Ö
HIST FTTS	0.001		Ō	NR	NR	NR	NR	Ö
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	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 FINDS	0.001		0	NR	NR NR	NR NR	NR	0
DOCKET HWC	0.001 0.001		0 0	NR NR	NR NR	NR NR	NR NR	0 0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	Ö	NR	NR	NR	0
AIRS	0.001		Ő	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	Ö
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
GWCI	0.500		0	0	0	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	AL RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERN		/ES						
Exclusive Recovered Go								
RGA HWS	0.001		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals		0	0	0	0	0	0	0

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

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

NO SITES FOUND

Count: 2 records. ORPHAN SUMMARY

City	EDR ID Site Name	Site Address	Zip Database(s)
GRAY COURT	S105528119 HOUSTON PROPERTY SITE	S-107 3/4 MILE FROM FRONTAGE R	29645 SHWS
OWINGS	U003526363 VISSAGE AUTO PARTS CO	FRIENDSHIP CHURCH RD	29645 LUST, UST

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: 12/11/2017 Source: EPA
Date Data Arrived at EDR: 12/22/2017 Telephone: N/A

Number of Days to Update: 14 Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 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: 12/11/2017 Source: EPA
Date Data Arrived at EDR: 12/22/2017 Telephone: N/A

Number of Days to Update: 14 Next Scheduled EDR Contact: 07/16/2018
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.

Source: EPA

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

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: 12/11/2017 Date Data Arrived at EDR: 12/22/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 14

Source: EPA Telephone: N/A

Last EDR Contact: 04/06/2018

Next Scheduled EDR Contact: 07/16/2018 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: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/06/2018

Next Scheduled EDR Contact: 07/16/2018 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 know 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: 01/09/2018 Date Data Arrived at EDR: 02/06/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 66

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 07/30/2018 Data Release Frequency: Quarterly

### Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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: 01/09/2018 Date Data Arrived at EDR: 02/06/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 66

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 07/30/2018 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: 12/11/2017 Date Data Arrived at EDR: 12/26/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 45

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/28/2018

Next Scheduled EDR Contact: 07/09/2018 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: 12/11/2017 Date Data Arrived at EDR: 12/26/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/28/2018

Next Scheduled EDR Contact: 07/09/2018
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: 12/11/2017 Date Data Arrived at EDR: 12/26/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency Telephone: (404) 562-8651

Last EDR Contact: 03/28/2018

Next Scheduled EDR Contact: 07/09/2018 Data Release Frequency: Quarterly

#### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/11/2017 Date Data Arrived at EDR: 12/26/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/28/2018

Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

#### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/11/2017 Date Data Arrived at EDR: 12/26/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/28/2018

Next Scheduled EDR Contact: 07/09/2018 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: 05/22/2017 Date Data Arrived at EDR: 06/13/2017 Date Made Active in Reports: 09/15/2017

Number of Days to Update: 94

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 02/09/2018

Next Scheduled EDR Contact: 05/28/2018 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: 11/13/2017 Date Data Arrived at EDR: 11/27/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 74

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/27/2018

Next Scheduled EDR Contact: 06/11/2018 Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/13/2017 Date Data Arrived at EDR: 11/27/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 74

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/27/2018

Next Scheduled EDR Contact: 06/11/2018

Data Release Frequency: Varies

#### Federal ERNS list

ERNS: Emergency Response Notification System

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

substances.

Date of Government Version: 01/16/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 63

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/27/2018

Next Scheduled EDR Contact: 07/09/2018 Data Release Frequency: Quarterly

#### State- and tribal - equivalent CERCLIS

SHWS: Site Assessment Section Project List

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

Date of Government Version: 12/13/2017 Date Data Arrived at EDR: 12/14/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 22

Source: Department of Health and Environmental Control

Telephone: 803-898-0835 Last EDR Contact: 03/08/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Semi-Annually

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

SWF/LF: Permitted Landfills List

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: 12/11/2017 Date Data Arrived at EDR: 12/12/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 59

Source: Department of Health and Environmental Control

Telephone: 803-734-5165

Source: Department of Health and Environmental Control, GIS Section

Telephone: 803-896-4084 Last EDR Contact: 03/08/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Semi-Annually

#### State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

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: 02/02/2018 Date Data Arrived at EDR: 02/02/2018 Date Made Active in Reports: 03/27/2018

Number of Days to Update: 53

Source: Department of Health and Environmental Control

Telephone: 803-898-4350 Last EDR Contact: 01/22/2018

Next Scheduled EDR Contact: 05/07/2018 Data Release Frequency: Quarterly

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: 10/16/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018

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: 10/12/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 10/24/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 09/30/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 10/14/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 Data Release Frequency: Varies

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

Date of Government Version: 10/12/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 01/06/2018 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 10/14/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/19/2018

Next Scheduled EDR Contact: 05/07/2018 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: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 04/13/2018

Next Scheduled EDR Contact: 07/23/2018 Data Release Frequency: Varies

#### UST: Comprehensive Underground Storage Tanks

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: 02/02/2018 Date Data Arrived at EDR: 02/02/2018 Date Made Active in Reports: 03/27/2018

Number of Days to Update: 53

Source: Department of Health and Environmental Control

Telephone: 803-896-7957 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 08/06/2018 Data Release Frequency: Quarterly

### AST: Aboveground Storage Tank List

Registered Aboveground Storage Tanks.

Date of Government Version: 03/25/2004 Date Data Arrived at EDR: 08/04/2004 Date Made Active in Reports: 09/23/2004

Number of Days to Update: 50

Source: Department of Health and Environmental Control

Telephone: 803-898-4350 Last EDR Contact: 02/23/2018

Next Scheduled EDR Contact: 06/11/2018 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: 04/24/2017 Date Data Arrived at EDR: 07/27/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 134

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 01/13/2018 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 10/12/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 10/16/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 Data Release Frequency: Varies

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: 09/30/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 Data Release Frequency: Varies

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: 10/14/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/23/2018

Next Scheduled EDR Contact: 05/07/2018 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: 10/14/2017 Date Data Arrived at EDR: 01/23/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 80

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/19/2018

Next Scheduled EDR Contact: 05/07/2018 Data Release Frequency: Varies

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

RCR: Registry of Conditional Remedies

The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

Date of Government Version: 09/25/2017 Date Data Arrived at EDR: 10/24/2017 Date Made Active in Reports: 12/19/2017

Number of Days to Update: 56

Source: Department of Health & Environmental Control

Telephone: 803-896-4000 Last EDR Contact: 03/12/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Varies

#### AUL: Land Use Controls

The term Land Use Controls or "LUCs" encompass institutional controls, such as those involved in real estate interests, governmental permitting, zoning, public advisories, deed notices, and other legal restrictions. The term also includes restrictions on access, whether achieved by means of engineered barriers (e.g., fence or concrete pad) or by human means (e.g., the presence of security guards). Additionally, the term includes both affirmative measures to achieve the desired restrictions (e.g., night lighting of an area) and prohibitive directives (e.g., restrictions on certain types of wells for the duration of the corrective action). Considered altogether, the LUCs for a facility will provide a tool for how the property should be used in order to maintain the level of protectiveness that one or more corrective actions were designed to achieve.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 02/09/2018

Number of Days to Update: 30

Source: Department of Health & Environmental Control

Telephone: 803-896-4049 Last EDR Contact: 03/15/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Varies

#### State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/21/2018

Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Varies

VCP: Voluntary Cleanup Sites

Sites participating in the Voluntary Cleanup Program. Once staff and a non-responsible party have agreed upon an approved scope of work for a site investigation and/or remediation, the party enters into a voluntary cleanup contract. Staff oversees the cleanup efforts to ensure that activities are performed to our satisfaction. Upon completion of the negotiated work in the voluntary cleanup contract, the non-responsible party receives State Superfund liability protection.

Date of Government Version: 01/18/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 21

Source: Department of Health and Environmental Control

Telephone: 803-896-4049 Last EDR Contact: 04/12/2018

Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Varies

#### State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing

The Brownfields component of the Voluntary Cleanup Program allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation.

Date of Government Version: 01/18/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 21

Source: Department of Health & Environmental Control

Telephone: 803-896-4069 Last EDR Contact: 04/12/2018

Next Scheduled EDR Contact: 07/30/2018

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: 01/19/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/21/2018

Next Scheduled EDR Contact: 07/02/2018 Data Release Frequency: Semi-Annually

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

SWRCY: Solid Waste Recycling Facilities A listing of recycling center locations.

> Date of Government Version: 07/01/2017 Date Data Arrived at EDR: 12/04/2017 Date Made Active in Reports: 12/19/2017

Number of Days to Update: 15

Source: Department of Health & Enviornmental Control

Telephone: 803-896-8985 Last EDR Contact: 03/02/2018

Next Scheduled EDR Contact: 06/11/2018 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: 01/30/2018

Next Scheduled EDR Contact: 05/14/2018 Data Release Frequency: Varies

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: 04/18/2018

Next Scheduled EDR Contact: 08/06/2018

Data Release Frequency: No Update Planned

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

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 Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 02/02/2018

Next Scheduled EDR Contact: 05/14/2018 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: 01/19/2018 Date Data Arrived at EDR: 01/24/2018 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 16

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/27/2018

Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: No Update Planned

#### ALLSITES: Site Assessment & Remediation Public Record Database

The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

Date of Government Version: 01/09/2018 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 30

Source: Department of Health & Environmental Control

Telephone: 803-896-4000 Last EDR Contact: 03/15/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Sites

A listing of clandestine drug lab site locations.

Date of Government Version: 01/24/2012 Date Data Arrived at EDR: 01/26/2012 Date Made Active in Reports: 02/24/2012

Number of Days to Update: 29

Source: Department of Health & Environmental Control

Telephone: 803-896-4288 Last EDR Contact: 03/01/2018

Next Scheduled EDR Contact: 06/18/2018 Data Release Frequency: Varies

CDL 2: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 12/01/2017 Date Data Arrived at EDR: 12/14/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 57

Source: South Carolina Law Enforcement Division

Telephone: 803-896-7136 Last EDR Contact: 02/23/2018

Next Scheduled EDR Contact: 06/11/2018 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: 01/09/2018 Date Data Arrived at EDR: 01/24/2018 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 16

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/27/2018

Next Scheduled EDR Contact: 06/11/2018 Data Release Frequency: Quarterly

#### Local Land Records

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/11/2017 Date Data Arrived at EDR: 12/22/2017 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 02/06/2018

Next Scheduled EDR Contact: 05/21/2018 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: 01/19/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 63

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/27/2018

Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

#### SPILLS: Spill List

Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division.

Date of Government Version: 11/28/2017 Date Data Arrived at EDR: 11/29/2017 Date Made Active in Reports: 12/18/2017

Number of Days to Update: 19

Source: Department of Health and Environmental Control

Telephone: 803-898-4111 Last EDR Contact: 02/23/2018

Next Scheduled EDR Contact: 06/11/2018 Data Release Frequency: Semi-Annually

#### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/25/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/07/2013

Number of Days to Update: 63

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/26/2001 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/07/2013

Number of Days to Update: 63

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### 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: 12/11/2017 Date Data Arrived at EDR: 12/26/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 03/28/2018

Next Scheduled EDR Contact: 07/09/2018
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: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 02/21/2018

Next Scheduled EDR Contact: 06/04/2018

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: 04/13/2018

Next Scheduled EDR Contact: 07/23/2018 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 04/11/2018

Next Scheduled EDR Contact: 07/23/2018

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 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/16/2018

Next Scheduled EDR Contact: 05/28/2018

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: 01/11/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 03/02/2018

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 03/27/2018

Next Scheduled EDR Contact: 07/09/2018 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 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 01/31/2018

Next Scheduled EDR Contact: 05/21/2018 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: 04/22/2013 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 02/08/2018

Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

#### 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 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 198

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/23/2018

Next Scheduled EDR Contact: 07/02/2018 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: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 2

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 02/23/2018

Next Scheduled EDR Contact: 06/04/2018 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: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/09/2018

Next Scheduled EDR Contact: 08/06/2018 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: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018

Number of Days to Update: 21

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 03/09/2018

Next Scheduled EDR Contact: 06/18/2018 Data Release Frequency: Annually

#### RMP: Risk Management Plans

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: 11/02/2017 Date Data Arrived at EDR: 11/17/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 08/06/2018 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 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

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: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 02/06/2018

Next Scheduled EDR Contact: 05/21/2018 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: 06/01/2017 Date Data Arrived at EDR: 06/09/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 126

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/13/2018

Next Scheduled EDR Contact: 07/23/2018 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 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 04/09/2018

Next Scheduled EDR Contact: 07/23/2018 Data Release Frequency: Quarterly

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: Quarterly

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

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 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: Quarterly

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: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 01/19/2018

Next Scheduled EDR Contact: 05/21/2018 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: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 03/09/2018

Next Scheduled EDR Contact: 06/18/2018 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: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/06/2018

Next Scheduled EDR Contact: 06/18/2018 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: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 01/26/2018

Next Scheduled EDR Contact: 05/07/2018 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.

Date of Government Version: 01/03/2018 Date Data Arrived at EDR: 01/04/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 99

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/05/2018

Next Scheduled EDR Contact: 07/16/2018 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 Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 01/19/2018

Next Scheduled EDR Contact: 05/14/2018 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 01/24/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 79

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/06/2018

Next Scheduled EDR Contact: 07/02/2018 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: 02/23/2018

Next Scheduled EDR Contact: 06/04/2018 Data Release Frequency: Biennially

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 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/11/2018

Next Scheduled EDR Contact: 07/23/2018 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: 12/23/2016 Date Data Arrived at EDR: 12/27/2016 Date Made Active in Reports: 02/17/2017

Number of Days to Update: 52

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 01/19/2018

Next Scheduled EDR Contact: 05/21/2018 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: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 02/23/2018

Next Scheduled EDR Contact: 06/04/2018

Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/09/2018 Date Data Arrived at EDR: 02/06/2018 Date Made Active in Reports: 03/02/2018

Number of Days to Update: 24

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/06/2018

Next Scheduled EDR Contact: 07/16/2018 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 1931and 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 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 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.

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: 10/29/2017 Date Data Arrived at EDR: 11/28/2017 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 45

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/28/2018

Next Scheduled EDR Contact: 06/11/2018 Data Release Frequency: Semi-Annually

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: 03/02/2018

Next Scheduled EDR Contact: 06/11/2018 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: 03/02/2018

Next Scheduled EDR Contact: 06/11/2018 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.

Date of Government Version: 12/20/2017 Date Data Arrived at EDR: 12/21/2017 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 92

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/07/2018

Next Scheduled EDR Contact: 06/25/2018 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: 02/21/2018 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 28

Source: EPA

Telephone: (404) 562-9900 Last EDR Contact: 02/23/2018

Next Scheduled EDR Contact: 06/18/2018 Data Release Frequency: Quarterly

#### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016 Date Data Arrived at EDR: 10/31/2017 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 73

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 04/13/2018

Next Scheduled EDR Contact: 07/30/2018 Data Release Frequency: Varies

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 01/04/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 03/02/2018

Next Scheduled EDR Contact: 06/11/2018 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: 01/13/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 03/02/2018

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 03/07/2018

Next Scheduled EDR Contact: 06/18/2018 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: 02/20/2018 Date Data Arrived at EDR: 02/21/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 30

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/21/2018

Next Scheduled EDR Contact: 06/04/2018 Data Release Frequency: Quarterly

AIRS: Permitted Airs Facility Listing
A listing of permitted airs facilities.

Date of Government Version: 02/26/2018 Date Data Arrived at EDR: 02/28/2018 Date Made Active in Reports: 03/21/2018

Number of Days to Update: 21

Source: Department of Health & Environmental Control

Telephone: 803-898-4279 Last EDR Contact: 02/28/2018

Next Scheduled EDR Contact: 06/11/2018

Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing
Asbestos abatement & demolition project list

Date of Government Version: 01/23/2018 Date Data Arrived at EDR: 01/26/2018 Date Made Active in Reports: 03/21/2018

Number of Days to Update: 54

Source: Department of Health & Environmental Control

Telephone: 803-898-3882 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 08/06/2018 Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of sites with coal ash ponds.

Date of Government Version: 01/20/2016 Date Data Arrived at EDR: 01/29/2016 Date Made Active in Reports: 04/01/2016

Number of Days to Update: 63

Source: Department of Health & Environmental Control

Telephone: 803-898-3964 Last EDR Contact: 03/16/2018

Next Scheduled EDR Contact: 07/02/2018 Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Database

The Drycleaning Facility Restoration Trust Fund database is used to access, prioritze and cleanup contaminated registered drycleaning sites.

Date of Government Version: 01/08/2018 Date Data Arrived at EDR: 02/01/2018 Date Made Active in Reports: 03/21/2018

Number of Days to Update: 48

Source: Department of Health & Environmental Control

Telephone: 803-898-3882 Last EDR Contact: 02/01/2018

Next Scheduled EDR Contact: 05/14/2018 Data Release Frequency: Annually

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information for a lid waste 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: 12/13/2017 Date Data Arrived at EDR: 12/15/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 56

Source: Department of Health & Environmental Control

Telephone: 803-896-4067 Last EDR Contact: 03/08/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Hazardous waste financial assurance information

Date of Government Version: 12/14/2017 Date Data Arrived at EDR: 12/15/2017 Date Made Active in Reports: 02/09/2018

Number of Days to Update: 56

Source: Department of Health & Environmental Control

Telephone: 803-898-3880 Last EDR Contact: 03/08/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

UST financial assurance information.

Date of Government Version: 10/04/2017 Date Data Arrived at EDR: 10/06/2017 Date Made Active in Reports: 10/09/2017

Number of Days to Update: 3

Source: Department of Health & Environmental Control

Telephone: 803-898-3880 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 08/06/2018 Data Release Frequency: Varies

**GWCI:** Groundwater Contamination Inventory

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 11/06/2008 Date Made Active in Reports: 11/19/2008

Number of Days to Update: 13

Source: Department of Health and Environmental Control

Telephone: 803-898-3798 Last EDR Contact: 03/21/2018

Next Scheduled EDR Contact: 07/09/2018 Data Release Frequency: Annually

NPDES: Waste Water Treatment Facilities Listing

A listing of waste water treatment facility locations.

Date of Government Version: 01/08/2018 Date Data Arrived at EDR: 01/11/2018 Date Made Active in Reports: 02/12/2018

Number of Days to Update: 32

Source: Department of Health & Environmental Control

Telephone: 803-898-4300 Last EDR Contact: 04/20/2018

Next Scheduled EDR Contact: 08/06/2018 Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of underground injection wells locations.

Date of Government Version: 02/07/2018 Date Data Arrived at EDR: 02/20/2018 Date Made Active in Reports: 03/27/2018

Number of Days to Update: 35

Source: Department of Health & Environmental Control

Telephone: 803-898-3799 Last EDR Contact: 02/05/2018

Next Scheduled EDR Contact: 05/21/2018 Data Release Frequency: Semi-Annually

#### **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 Source: EDR, Inc. Date Data Arrived at EDR: N/A Telephone: N/A Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

#### EDR 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 Source: EDR, Inc. Telephone: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

### **EDR 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 Health and Environmental Control in South Carolina.

Telephone: N/A

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013

Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills 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 Health and Environmental Control in South Carolina.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/15/2014 Number of Days to Update: 198

Source: Department of Health and Environmental Control Telephone: N/A

Source: Department of Health and Environmental Control

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 the Department of Health and Environmental Control in South Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

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: 01/03/2018 Date Data Arrived at EDR: 02/14/2018 Date Made Active in Reports: 03/22/2018

Number of Days to Update: 36

Source: Department of Energy & Environmental Protection

Source: Department of Health and Environmental Control

Telephone: 860-424-3375 Last EDR Contact: 02/14/2018

Next Scheduled EDR Contact: 05/28/2018

Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016

Date Data Arrived at EDR: 04/11/2017 Date Made Active in Reports: 07/27/2017

Number of Days to Update: 107

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 04/10/2018

Next Scheduled EDR Contact: 07/23/2018 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: 12/31/2017 Date Data Arrived at EDR: 01/31/2018 Date Made Active in Reports: 03/09/2018

Number of Days to Update: 37

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 01/31/2018

Next Scheduled EDR Contact: 05/14/2018 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 07/25/2017 Date Made Active in Reports: 09/25/2017

Number of Days to Update: 62

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 04/12/2018

Next Scheduled EDR Contact: 07/30/2018 Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 04/09/2018

Number of Days to Update: 45

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 02/21/2018

Next Scheduled EDR Contact: 06/04/2018 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 04/13/2017 Date Made Active in Reports: 07/14/2017

Number of Days to Update: 92

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/08/2018

Next Scheduled EDR Contact: 06/25/2018 Data Release Frequency: Annually

#### Oil/Gas Pipelines

Source: PennWell Corporation

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 PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

#### Electric Power Transmission Line Data

Source: PennWell Corporation

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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.

Daycare Centers: Child Day Care List Source: Department of Social Services

Telephone: 803-898-7345

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 Inventory Source: Department of Natural Resources Telephone: 803-734-9494

....

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

# STREET AND ADDRESS INFORMATION

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# **GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM**

#### **TARGET PROPERTY ADDRESS**

LAURENS COUNTY SITE 14 PARCEL 3 NOT REPORTED GRAY COURT, SC 29645

### **TARGET PROPERTY COORDINATES**

Latitude (North): 34.646091 - 34° 38' 45.93" Longitude (West): 82.127819 - 82° 7' 40.15"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 396638.8 UTM Y (Meters): 3834179.0

Elevation: 820 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map: 6063769 FOUNTAIN INN, SC

Version Date: 2014

Northeast Map: 6063817 WOODRUFF, SC

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 principal investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

### **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).

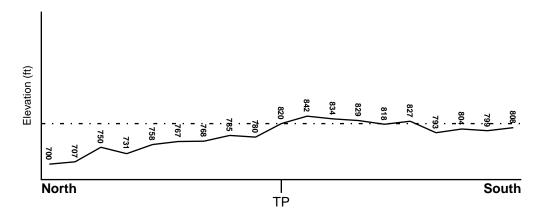
# **TOPOGRAPHIC INFORMATION**

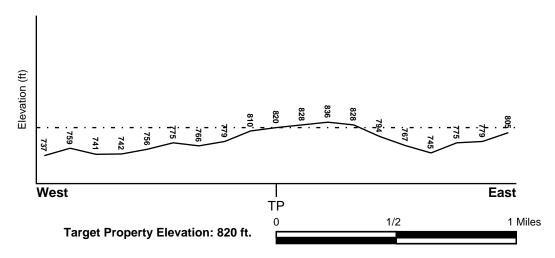
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

### 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.

### 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**

Flood Plain Panel at Target Property FEMA Source Type

45059C0075C FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

45059C0100C FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

FOUNTAIN INN 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.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

# **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**

#### **GEOLOGIC AGE IDENTIFICATION**

Era: Paleozoic Category: Plutonic and Intrusive Rocks

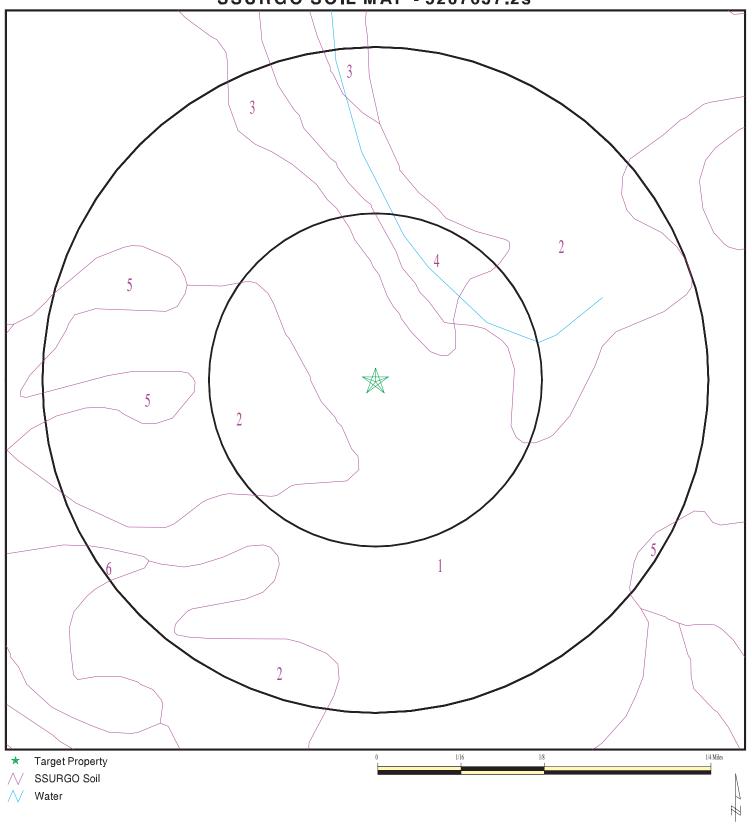
System: Devonian

Series: Middle Paleozoic granitic rocks

Code: Pzg2 (decoded above as Era, System & Series)

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 - 5267637.2s**



SITE NAME: Laurens County Site 14 Parcel 3 ADDRESS: Not Reported

Gray Court SC 29645 34.646091 / 82.127819 LAT/LONG:

CLIENT: Thomas & H CONTACT: Kate Mccoy Thomas & Hutton

INQUIRY #: 5267637.2s

DATE: April 23, 2018 11:09 am

# 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: CECIL

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Bou	ndary		Classif	ication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	5 inches	sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 6.5 Min: 4.5
2	5 inches	79 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 2

Soil Component Name: CECIL

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary Classification Saturated hydraulic						
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	5 inches	sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 6.5 Min: 4.5
2	5 inches	79 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 3

Soil Component Name: Madison

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary Classification Saturated hydraulic						
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Oon Roadion
1	0 inches	5 inches	sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 6.5 Min: 4.5
2	5 inches	38 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Layer Information							
Boundary Classification Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
3	38 inches	53 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: CHEWACLA

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward

movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
Boundary Classification Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	5 inches	24 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
3	24 inches	48 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
4	48 inches	61 inches		Not reported	Not reported	Max: Min:	Max: Min:

# Soil Map ID: 5

Soil Component Name: CECIL

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary Classification Saturated hydraulic						
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	3 inches	sandy clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	3 inches	79 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 6

Soil Component Name: PACOLET

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
Boundary Classification Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Oon Roadion
1	0 inches	5 inches	sandy clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 6.5 Min: 4.5
2	5 inches	26 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 6 Min: 4.5

			Soil Layer	Information			
Boundary Classification Saturated hydraulic							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
3	26 inches	53 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 6 Min: 4.5

LOCATION

# **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

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 0.001 miles

State Database 1.000

# FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

# FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No DWC Contains Found		

No PWS System Found

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

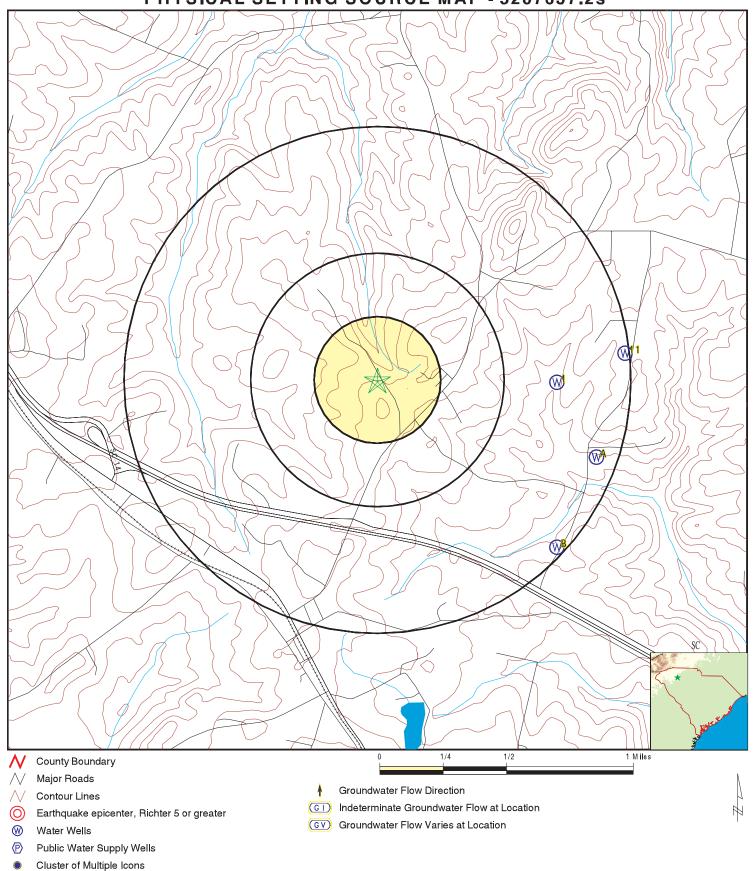
MAP ID	WELL ID	LOCATION FROM TP
1	SCP500000013406	1/2 - 1 Mile East
A2	SCP500000013401	1/2 - 1 Mile ESE
A3	SCP500000013400	1/2 - 1 Mile ESE
A4	SCP500000013402	1/2 - 1 Mile ESE
A5	SCP50000013403	1/2 - 1 Mile ESE

# **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE SUMMARY**

# STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A6	SCP500000013397	1/2 - 1 Mile ESE
A7	SCP50000013399	1/2 - 1 Mile ESE
A8	SCP50000013408	1/2 - 1 Mile ESE
B9	SCP50000013419	1/2 - 1 Mile SE
B10	SCP50000013418	1/2 - 1 Mile SE
11	SCP50000013417	1/2 - 1 Mile East
B12	SCP50000013410	1/2 - 1 Mile SE

# PHYSICAL SETTING SOURCE MAP - 5267637.2s



SITE NAME: Laurens County Site 14 Parcel 3

ADDRESS: Not Reported

Gray Court SC 29645 LAT/LONG: 34.646091 / 82.127819 CLIENT: Thomas & Hutton CONTACT: Kate Mccoy

INQUIRY #: 5267637.2s DATE: April 23, 2018 11:09 am

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Map ID				
Direction Distance				
Elevation			Database	EDR ID Number
1 East			SC WELLS	SCP500000013406
1/2 - 1 Mile			OO WEELO	300000013400
Lower				
Fid:	13405	Scdnr new :	44Hi012	
Scdnr old :	44Hi012	Scwrc:	44Hi012	
Scwrc tran:	Not Reported	Scwrc orig:	Not Reported	
Dhec permi:	Not Reported	Dhec const:	Not Reported	
Dhec publi:	Not Reported	Dhec pub00:	Not Reported	
Ownid:	Not Reported	Parcel id:	Not Reported	
Urid:	Not Reported	Locat:	N of Gray Court	
Cono:	LRN-2018	Quad:	WOODRUFF	
Quadno:	95	Locataccur:	Delorme1	
Lat:	343845	Lon:	820656	
Utmn:	3834124			
Utme:	397751	0 1 1	•	
Drdpth:	250	Comdpth:	0	
Elev:	0	<b>-</b>	N.B.	
Elevr:	Not Reported	Topog:	Not Reported	
Owner:	Richard Jones	Contact:	Not Reported	
Address:	1152 Cheek Rd	City:	Gray Court	
State:	SC Not Bonortod	Zip:	29645	
Phone:	Not Reported	Aquifer:	Not Reported	
Basin:	Not Reported	Wtruse:	DO	
Sorctp:	W Not Reported	Yield:	30 Not Benerted	
Cons:	Not Reported	Wq: Pt:	Not Reported	
GI: WI:	Not Reported		Not Reported	
Updated:	Not Reported 20031211000000.000	Pr: Ca:	Not Reported Not Reported	
Sc:	Not Reported	Pu:	Not Reported	
Qm:	Not Reported	Cla:	Not Reported	
Date print:	Not Reported	Site id:	SCP500000013406	
	· 			
A2 ESE 1/2 - 1 Mile			SC WELLS	SCP500000013401
Lower				
Fid:	13400	Scdnr new:	44Hi007	
Scdnr old :	44Hi007	Scwrc:	44Hi007	
Scwrc tran:	44Hiz0E	Scwrc orig:	44HizE	
Dhec permi:	Not Reported	Dhec const:	Not Reported	
Dhec publi:	Not Reported	Dhec pub00:	Not Reported	
Ownid:	Not Reported	Parcel id:	Not Reported	
Urid:	Not Reported	Locat:	N of Gray Court	
Cono:	LRN-1344	Quad:	WOODRUFF	
Quadno:	95	Locataccur:	Delorme1	
Lat:	343829	Lon:	820648	
Utmn:	3833641			
Utme:	397960			
Drdpth:	205	Comdpth:	0	
Elev:	0			
Elevr:	Not Reported	Topog:	Not Reported	
Owner:	Wesley Seay	Contact:	Not Reported	
Address:	328 Cook Road	City:	Gray Court	
State:	SC	Zip:	29645	
Phone:	Not Reported	Aquifer:	Not Reported	
Basin:	Not Reported	Wtruse:	DO	

Wtruse:

Not Reported Not Reported

Basin:

DO

W Yield: Sorctp:

Cons: Χ Wq: Not Reported Х GI: Pt: Not Reported Χ Not Reported WI: Pr:

20031211000000.000 Ca: Updated: Х

Pu: Not Reported Sc: Qm: Not Reported Cla: Not Reported Date print: Not Reported Site id: SCP500000013401

A3 ESE **SC WELLS** SCP500000013400

1/2 - 1 Mile Lower

> 13399 44H--i006 Fid: Scdnr new: Scdnr old: 44H--i006 Scwrc: 44H--i006 44H--iz0D 44H--izD Scwrc tran: Scwrc orig: Not Reported Not Reported Dhec permi: Dhec const: Dhec publi: Not Reported Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported Locat: N of Gray Court WOODRUFF Cono: LRN-1343 Quad: Quadno: 95 Locataccur: Delorme1 343829 820648 Lat: Lon:

Utmn: 3833641 Utme: 397960

0 205 Comdpth: Drdpth:

Elev: 0

Elevr: Not Reported Topog: Not Reported Wesley E Seav Contact: Not Reported Owner: Address: 328 Cook Road City: **Gray Court** SC Zip: 29645 State: Aquifer: Not Reported Phone:

Not Reported

Basin: Not Reported Wtruse: DO Sorctp: W Yield:

Not Reported Cons: Χ Wq: Χ GI: Pt: Not Reported Х Not Reported WI: Pr:

Updated: 20031211000000.000 Ca:

Sc: Χ Pu: Not Reported Not Reported Cla: Not Reported Qm: SCP500000013400 Not Reported Date print: Site id:

**SC WELLS** SCP500000013402 **ESE** 1/2 - 1 Mile Lower

Fid: 13401 44H--i008 Scdnr new: 44H--i008 Scdnr old: 44H--i008 Scwrc: Scwrc tran: 44H--iz0F Scwrc orig: 44H--izF Not Reported Dhec const: Not Reported Dhec permi: Dhec publi: Not Reported Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported N of Gray Court Locat: LRN-1626 WOODRUFF Cono: Quad: Quadno: 95 Locataccur: Delorme1 Lat: 343828 Lon: 820647

Utmn: 3833622 Utme: 397975

Drdpth: 465 Comdpth:

Elev: 0

Elevr: Not Reported Topog: Not Reported Owner: Bill Jones Contact: Not Reported Address: 151 Willow Creek Lane City: **Gray Court** State: SC Zip: 29645 Phone: 864/876-3579 Aquifer: Not Reported

Not Reported Wtruse: DO Basin: Sorctp: W Yield:

Cons: Χ Wq: Not Reported GI: Χ Pt: Not Reported Pr: Χ WI: Not Reported

Updated: 20031211000000.000 Ca: Χ Pu: Χ Sc: Х

Qm: Not Reported Cla: Not Reported Not Reported SCP500000013402 Date print: Site id:

1/2 - 1 Mile Lower

SCP500000013403 **SC WELLS** 

Fid: 13402 Scdnr new: 44H--i009 44H--i009 44H--i009 Scdnr old: Scwrc: 44H--iz0G 44H--izG Scwrc tran: Scwrc orig: Dhec permi: Not Reported Dhec const: Not Reported Not Reported Dhec publi: Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported Locat: N of Gray Court LRN-1672 WOODRUFF Cono: Quad: Delorme1 Quadno: 95 Locataccur: Lat: 343828 Lon: 820647

Utmn: 3833622 397975 Utme: 345

0 Drdpth: Comdpth:

Elev: 0 Elevr:

Not Reported Topog: Not Reported Owner: Bill Jones Contact: Not Reported City: 326 Cook Road **Gray Court** Address: 29645 State: SC Zip: 864/876-3579 Not Reported Phone: Aquifer: Basin: Not Reported Wtruse: DO

Sorctp: W Yield:

Cons: Χ Wq: Not Reported Х Pt: Not Reported GI: Χ Pr: WI: Not Reported

Updated: 20031211000000.000 Ca:

Χ Not Reported Sc: Pu: Cla: Not Reported Qm: Not Reported SCP500000013403 Date print: Not Reported Site id:

**ESE** 1/2 - 1 Mile Lower

**SC WELLS** SCP50000013397

Fid: 13396 44H--i003 Scdnr new: Scdnr old: 44H--i003 Scwrc: 44H--i003 Scwrc tran: 44H--iz07 Scwrc orig: 44H--iz7 Not Reported Not Reported Dhec permi: Dhec const: Dhec publi: Not Reported Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported Locat: N of Gray Court Cono: LRN-0482 Quad: WOODRUFF 95 Locataccur: Delorme1 Quadno: 343831 820645 Lat: Lon:

3833696 Utmn: Utme: 398037

Drdpth: 53 Comdpth: 0

Elev:

Not Reported Elevr: Not Reported Topog: Owner: James Campbell Contact: Not Reported Address: Rt 3 Box 50 Circle Road City: **Gray Court** 29645 State: SC Zip: 864/876-2194 Not Reported Phone: Aquifer: Basin: Not Reported Wtruse: DO

W Yield: Sorctp:

Cons: Χ Wq: Not Reported Χ GI: Pt: Not Reported Not Reported Χ Pr: WI:

Updated: 20031211000000.000 Ca:

Sc: Pu: Not Reported Qm: Not Reported Cla: Not Reported Not Reported SCP500000013397 Date print: Site id:

**SC WELLS** SCP500000013399

0

1/2 - 1 Mile Lower

Fid: 13398 Scdnr new: 44H--i005 Scdnr old: 44H--i005 44H--i005 Scwrc: 44H--iz09 44H--iz9 Scwrc tran: Scwrc orig: Dhec permi: Not Reported Dhec const: Not Reported Not Reported Not Reported Dhec publi: Dhec pub00: Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported N of Gray Court Locat: WOODRUFF LRN-0484 Cono: Quad: Quadno: 95 Locataccur: Delorme1 343831 820644 Lat: Lon:

Utmn: 3833695 Utme: 398067

0 Drdpth: 51 Comdpth:

Elev: 0

Elevr: Not Reported Topog: Not Reported Owner: Oscar Pennington Contact: Not Reported Address: Rt 3 Box 51 Circle Road City: **Gray Court** State: SC Zip: 29645 Phone: 864/876-2150 Aquifer: Not Reported

Basin: Not Reported Wtruse: DO

Sorctp: W Yield: 0

 Cons:
 X
 Wq:
 Not Reported

 GI:
 X
 Pt:
 Not Reported

 WI:
 X
 Pr:
 Not Reported

Updated: 20031211000000.000 Ca: X

Sc:XPu:Not ReportedQm:Not ReportedCla:Not ReportedDate print:Not ReportedSite id:SCP500000013399

A8
ESE SC WELLS SCP50000013408

1/2 - 1 Mile Lower

> 13407 44H--i014 Fid: Scdnr new: Scdnr old: 44H--i014 Scwrc: 44H--i014 Not Reported Not Reported Scwrc tran: Scwrc orig: Not Reported Not Reported Dhec permi: Dhec const: Dhec publi: Not Reported Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported Locat: N of Gray Court WOODRUFF Cono: LRN-2075 Quad: Quadno: 95 Locataccur: Delorme1 343831 820644 Lat: Lon:

Utmn: 3833714 Utme: 398067

Drdpth: 265 Comdpth: 0

Elev: 0

Elevr: Not Reported Topog: Not Reported Joe Shockley Contact: Not Reported Owner: Address: 101 Circle Dr City: **Gray Court** SC Zip: 29645 State: 864-876-2112 Aquifer: Not Reported Phone:

Basin: Not Reported Wtruse: DO

Sorctp: W Yield: 28

Not Reported Not Reported Cons: Wq: Not Reported GI: Not Reported Pt: WI: Not Reported Pr: Not Reported Updated: 20031211000000.000 Ca: Not Reported Sc: Not Reported Pu: Not Reported Not Reported Cla: Not Reported Qm:

Date print: Not Reported Site id: SCP500000013408

B9

SE SC WELLS SCP500000013419
1/2 - 1 Mile
Lower

Fid: 13418 44H--iz26 Scdnr new: 44H--iz26 Scdnr old: 44H--iz26 Scwrc: Scwrc tran: 44H--sz06 Scwrc orig: 44H--sz6 Not Reported Dhec const: Not Reported Dhec permi: Dhec publi: Not Reported Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported **NE of Gray Court** Locat: LRN-0471 WOODRUFF Cono: Quad: Quadno: 95 Locataccur: DeLorme2 Lat: 343812 Lon: 820656

TC5267637.2s Page A-17

Utmn: 0 Utme: 0

Drdpth: 120 Comdpth: 0

Elev: 0

Elevr: Not Reported Topog: Not Reported Owner: Eric Neal Contact: Not Reported Address: 147 Cook Road City: **Gray Court** State: SC Zip: 29645 Phone: 864/458-8742 Aquifer: Not Reported

Not Reported Wtruse: DO Basin: Sorctp: W Yield: 30 Cons: Χ Wq:

Not Reported GI: Χ Pt: Not Reported Pr: Χ WI: Not Reported

Updated: 20031211000000.000 Ca: Χ Pu: Not Reported Sc: Χ

Qm: Not Reported Cla: Not Reported Not Reported SCP500000013419 Date print: Site id:

**B10** 1/2 - 1 Mile Lower

SCP500000013418 **SC WELLS** 

Fid: 13417 Scdnr new: 44H--iz25 44H--iz25 44H--iz25 Scdnr old: Scwrc: 44H--rz03 44H--rz3 Scwrc tran: Scwrc orig: Dhec permi: Not Reported Dhec const: Not Reported Not Reported Dhec publi: Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported Locat: NE of Gray Court LRN-0827 WOODRUFF Cono: Quad: Quadno: 95 Locataccur: DeLorme2 Lat: 343812 Lon: 820655

Utmn: 0 Utme: 0

0 Drdpth: 285 Comdpth:

Elev: 0 Elevr:

Not Reported Topog: Not Reported Owner: Wilton W Gregory Contact: Not Reported City: 8 Glenda Lane Greenville Address: 29602 State: SC Zip: 864/297-6027 Not Reported Phone: Aquifer: Basin: Not Reported Wtruse: DO

Sorctp: W Yield:

Wq: Not Reported Cons: Χ Х Pt: Not Reported GI: Χ Pr: WI: Not Reported

Updated: 20031211000000.000 Ca:

Χ Not Reported Sc: Pu: Cla: Not Reported Qm: Not Reported SCP500000013418 Date print: Not Reported Site id:

**East** 1/2 - 1 Mile Lower

**SC WELLS** SCP500000013417

Fid: 13416 Scdnr new: 44H--iz24 Scdnr old: 44H--iz24 Scwrc: 44H--iz24 Scwrc tran: 44H--kz0H Scwrc orig: 44H--kzH Not Reported Not Reported Dhec permi: Dhec const: Not Reported Dhec publi: Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported Urid: Not Reported Locat: **NE of Gray Court** Cono: LRN-0907 Quad: WOODRUFF 95 Locataccur: DeLorme2 Quadno: 343851 820639 Lat: Lon:

Utmn: 0 Utme: 0

Drdpth: 155 Comdpth: 0

Elev: 0

Not Reported Not Reported Elevr: Topog: David P Baumann Owner: Contact: Not Reported Address: 360 Cook Road City: **Gray Court** SC 29645 State: Zip: 864/876-3430 Not Reported Phone: Aquifer: DO

Basin:Not ReportedWtruse:DOSorctp:WYield:55

 Cons:
 X
 Wq:
 Not Reported

 GI:
 X
 Pt:
 Not Reported

 WI:
 X
 Pr:
 Not Reported

Updated: 20031211000000.000 Ca: X

 Sc:
 X
 Pu:
 Not Reported

 Qm:
 Not Reported
 Cla:
 Not Reported

 Date print:
 Not Reported
 Site id:
 SCP500000013417

B12 SE 1/2 - 1 Mile Lower

- 1 Mile
wer

Fid: 13409 Scdnr new: 44H--i016 Scdnr old: 44H--i016 44H--i016 Scwrc: 44F--xz04 44F--xz4 Scwrc tran: Scwrc orig: Not Reported Not Reported Dhec permi: Dhec const: Dhec publi: Not Reported Dhec pub00: Not Reported Ownid: Not Reported Parcel id: Not Reported **NE of Gray Court** Urid: Not Reported Locat: LRN-0791 WOODRUFF Cono: Quad: Delorme1 Quadno: 95 Locataccur: 343809 820657 Lat: Lon:

Utmn: 3833034 Utme: 397724

 Drdpth:
 42
 Comdpth:
 0

 Elev:
 0

Elevr: Not Reported Topog: Not Reported Carl A Neal Owner: Contact: Not Reported 137 Cork Road Address: City: **Gray Court** State: SC Zip: 29645

Phone: 864/876-9953 Aquifer: Not Reported

Basin: Not Reported Wtruse: DO

Sorctp: Yield:

W X X Not Reported Not Reported Wq: Cons: GI: Pt: Χ Not Reported WI: Pr:

20031211000000.000 Ca: Updated:

Sc: Χ Pu: Not Reported Not Reported SCP500000013410 Not Reported Not Reported Qm: Cla: Date print: Site id:

# AREA RADON INFORMATION

State Database: SC Radon

Radon Test Results

Zipcode	Average	Num Tests	Minimum	Maximum	% > 4 pCi/L
29645	2.3	22	0.3	13.8	4.5

Federal EPA Radon Zone for LAURENS 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: 29645

Number of sites tested: 1

 Area
 Average Activity
 % <4 pCi/L</th>
 % 4-20 pCi/L
 % >20 pCi/L

 Living Area - 1st Floor
 2.100 pCi/L
 100%
 0%
 0%

Living Area - 2nd Floor Not Reported Not Rep

# 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 Inventory Source: Department of Natural Resources

Telephone: 803-734-9494

### 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

Water Well Database

Source: Department of Natural Resources

Telephone: 803-734-6440

Water wells in the Coastal Plain counties of South Carolina

Water Well Database

Source: Department of Natural Resources

Telephone: 864-654-1671

A listing of water wells in the Piedmont (upstate) counties.

# OTHER STATE DATABASE INFORMATION

### RADON

State Database: SC Radon

Source: Department of Health & Environmental Control

Telephone: 864-241-1090 Radon Test Results by Zip Code

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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# **Laurens County Site 14 Parcel 3**

Not Reported Gray Court, SC 29645

Inquiry Number: 5267637.9

April 23, 2018

# The EDR Aerial Photo Decade Package



# **EDR Aerial Photo Decade Package**

04/23/18

Site Name: **Client Name:** 

Laurens County Site 14 Parcel Thomas & Hutton Not Reported P.O. Box 7608 Gray Court, SC 29645 Columbia, SC 29202 EDR Inquiry # 5267637.9



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.

Contact: Kate Mccoy

### Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: February 02, 1994	USGS/DOQQ
1989	1"=750'	Flight Date: March 19, 1989	USGS
1981	1"=500'	Flight Date: March 09, 1981	USDA
1978	1"=500'	Flight Date: March 22, 1978	USDA
1976	1"=500'	Flight Date: February 23, 1976	USGS
1964	1"=500'	Flight Date: September 25, 1964	USGS
1961	1"=500'	Flight Date: June 23, 1961	USGS
1951	1"=500'	Flight Date: May 14, 1951	USGS
1938	1"=500'	Flight Date: December 28, 1938	USDA

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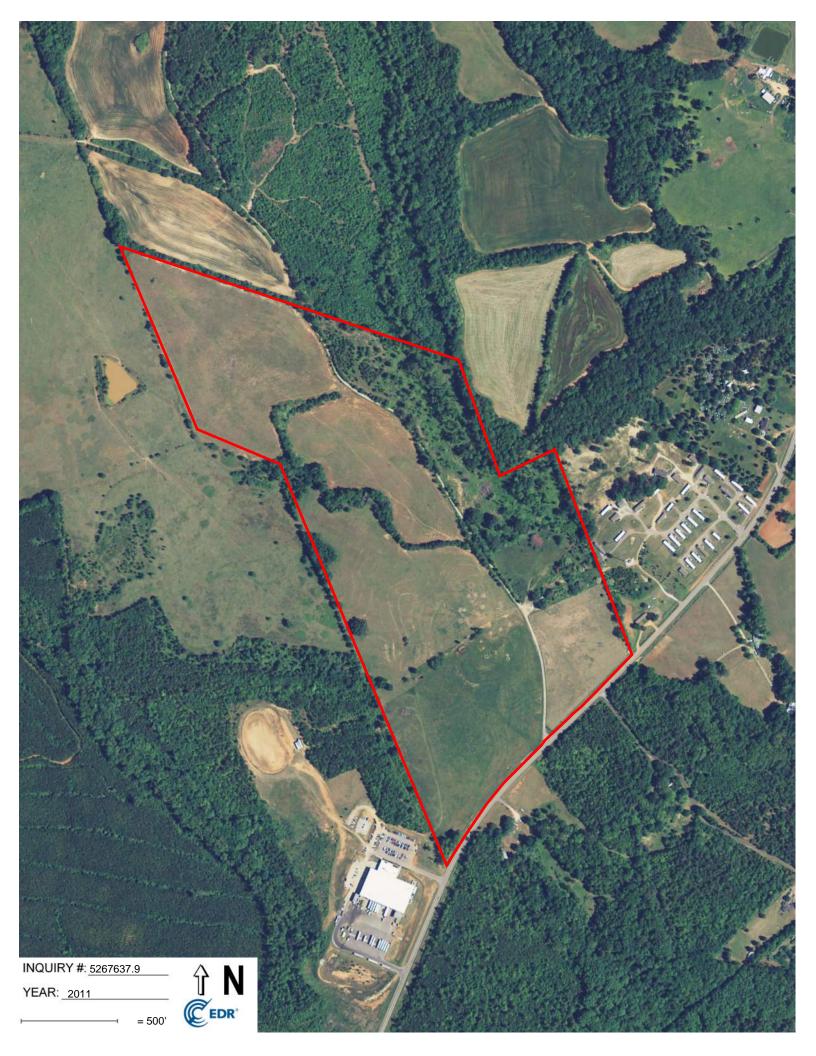
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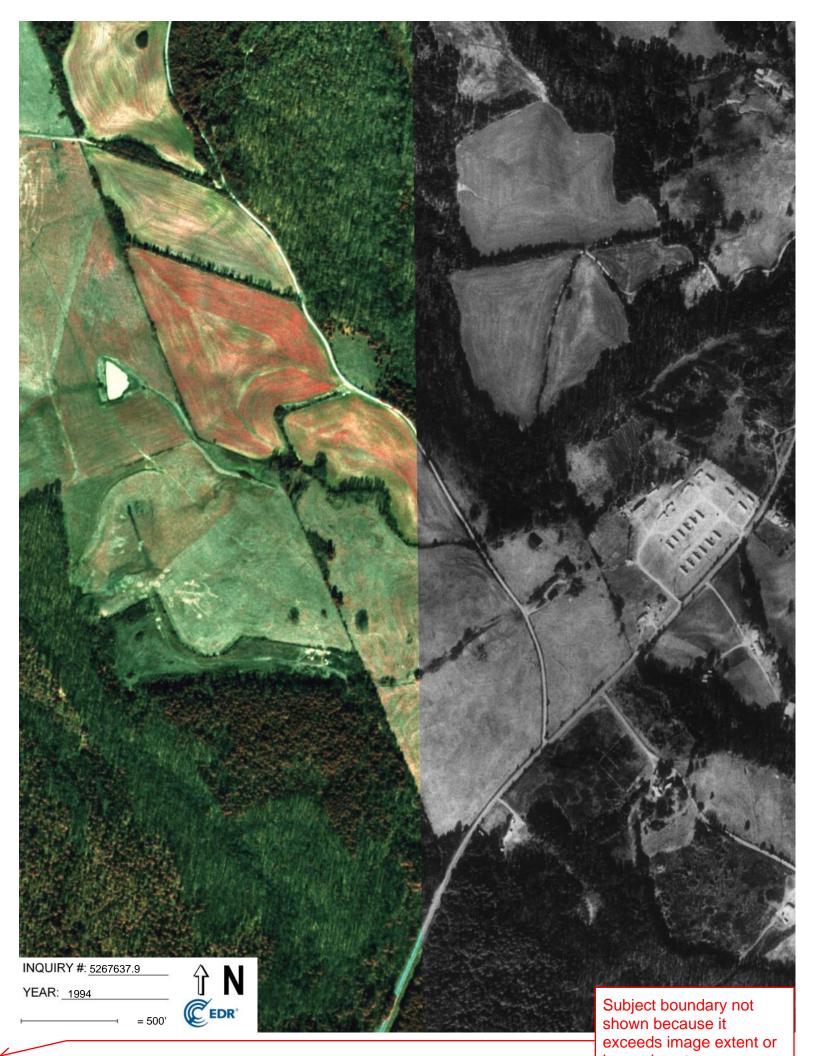
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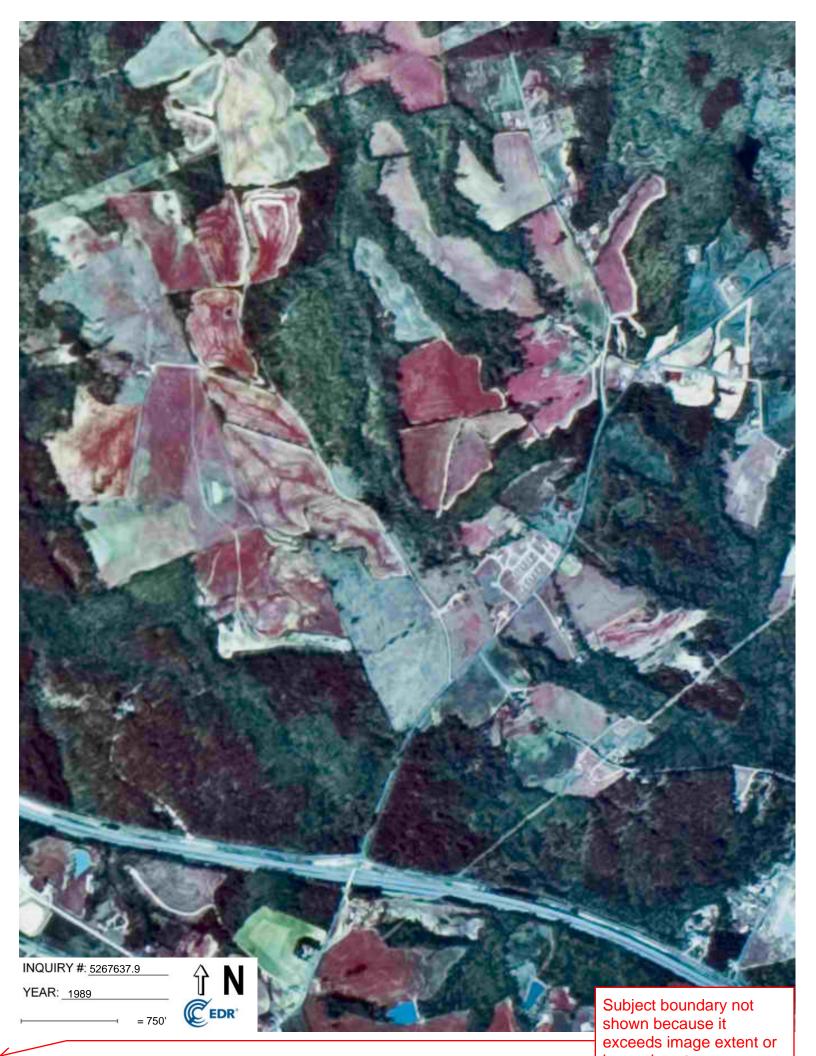
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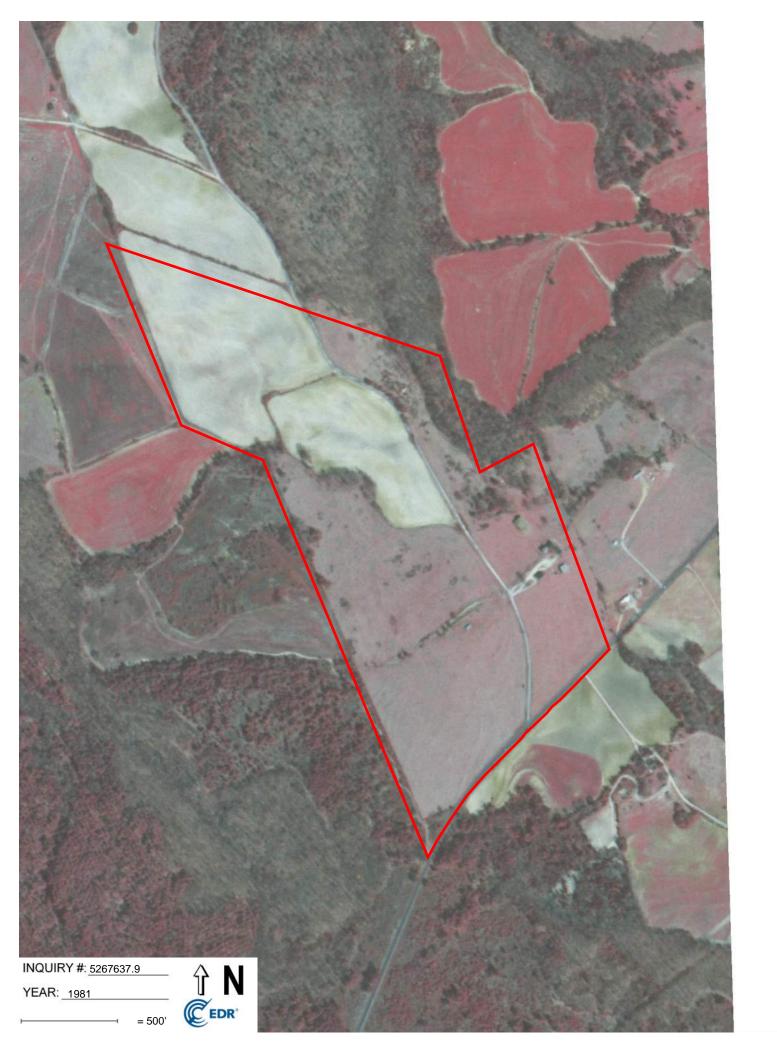


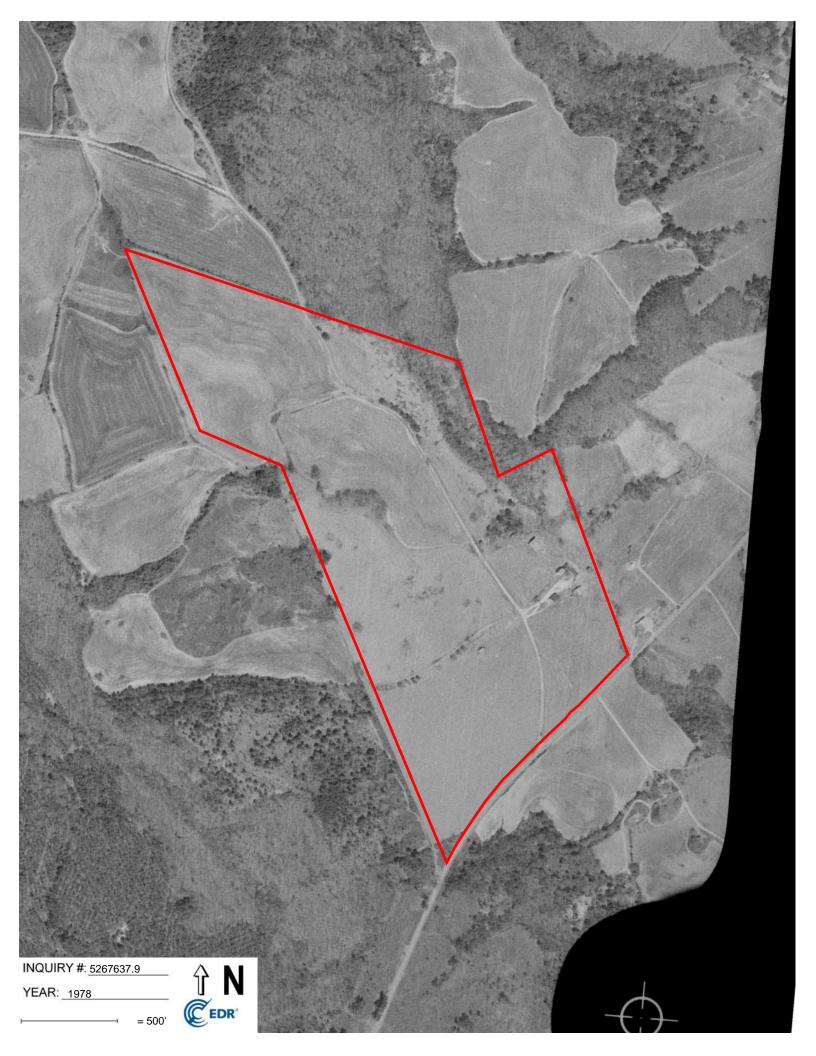




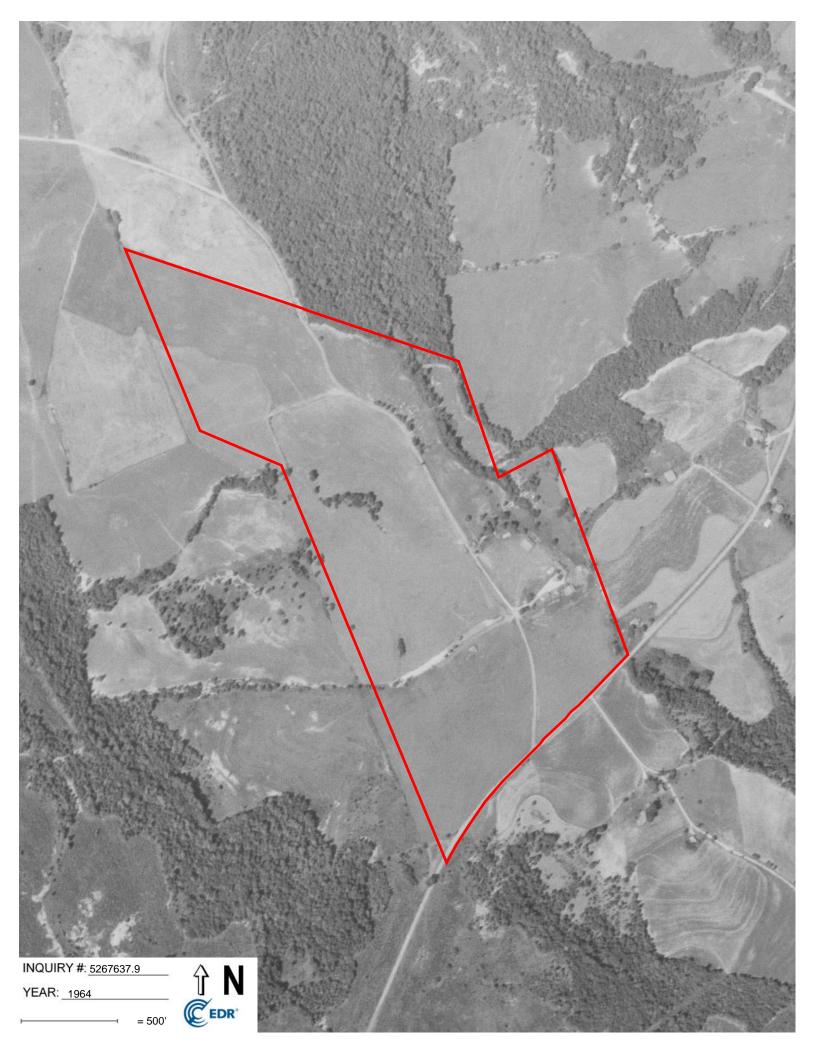


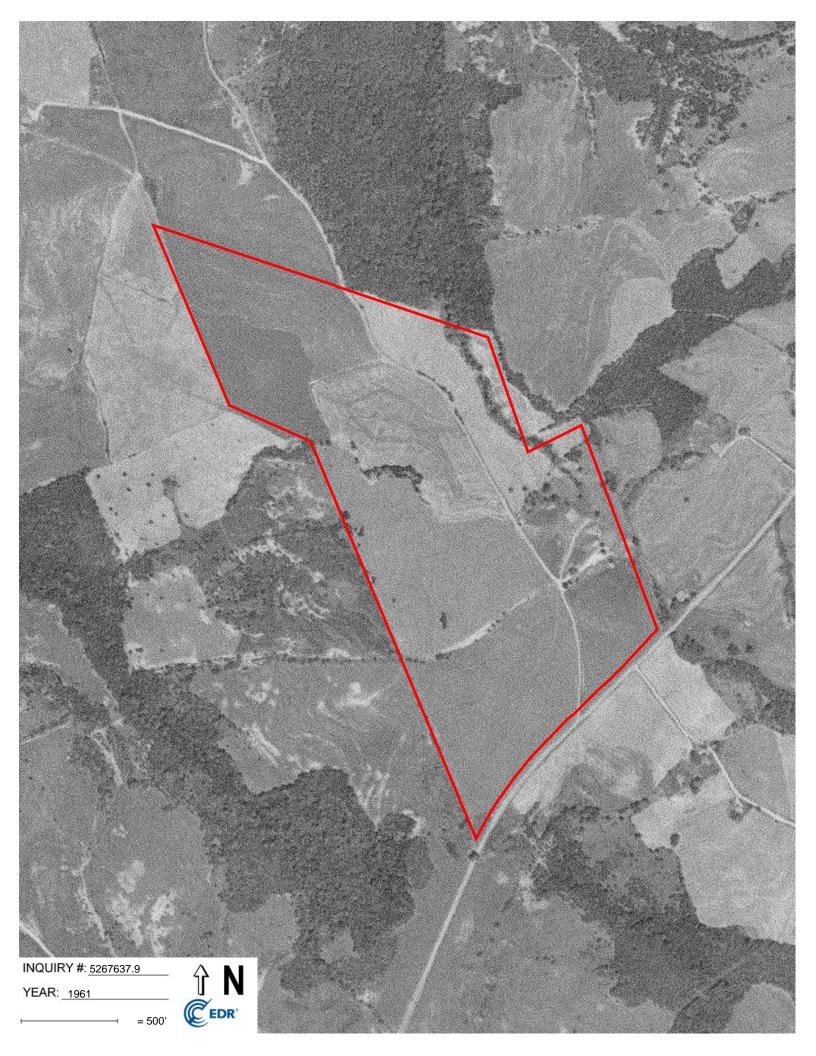


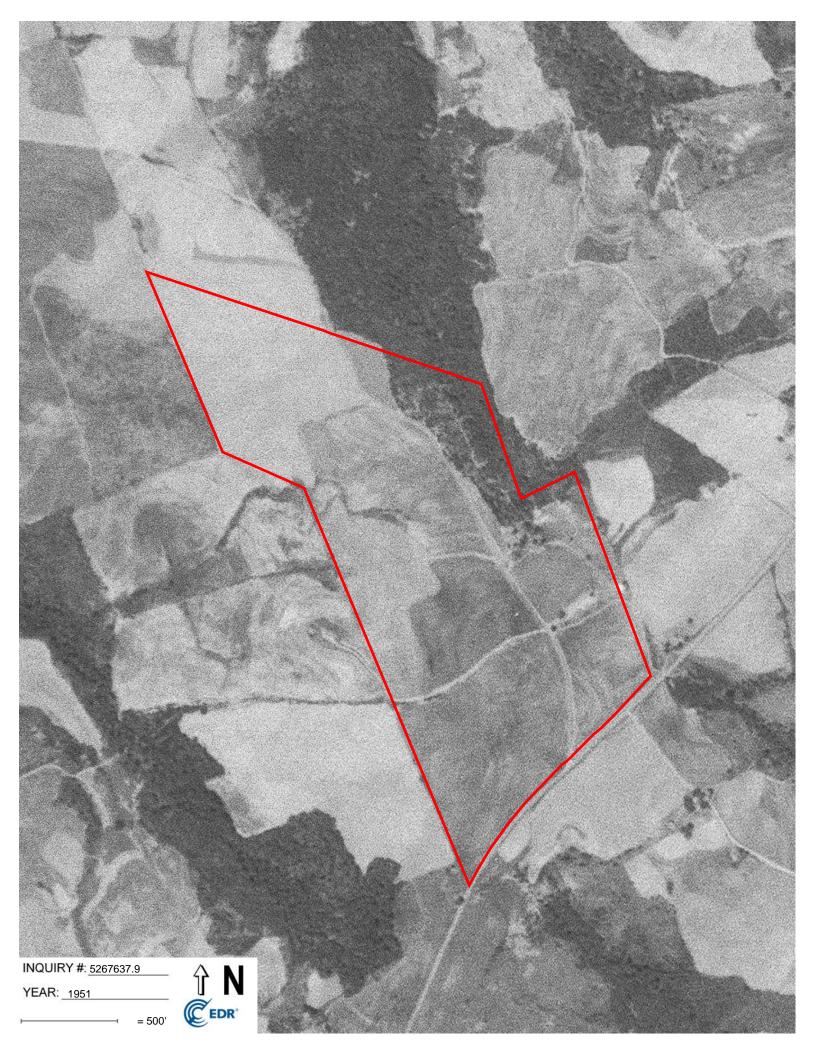














Laurens County Site 14 Parcel 3 Not Reported Gray Court, SC 29645

Inquiry Number: 5267637.4

April 23, 2018

# **EDR Historical Topo Map Report**

with QuadMatch™



# **EDR Historical Topo Map Report**

04/23/18

Site Name: Client Name:

Laurens County Site 14 Parcel Not Reported

Gray Court, SC 29645 EDR Inquiry # 5267637.4 Thomas & Hutton P.O. Box 7608

Columbia, SC 29202 Contact: Kate Mccoy



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Thomas & Hutton were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		Coordinates:	
P.O.#	26942.0004	Latitude:	34.646091 34° 38' 46" North
Project:	Laurens County site 14-3	Longitude:	-82.127819 -82° 7' 40" West
-	·	UTM Zone:	Zone 17 North
		<b>UTM X Meters:</b>	396641.13
		<b>UTM Y Meters:</b>	3834375.41
		Elevation:	819.78' above sea level

### **Maps Provided:**

2014

1983

1957

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### Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 2014 Source Sheets



Hickory Tavern 2014 7.5-minute, 24000



Laurens North 2014 7.5-minute, 24000



Fountain Inn 2014 7.5-minute, 24000



Woodruff 2014 7.5-minute, 24000

### 1983 Source Sheets



Laurens North 1983 7.5-minute, 24000 Aerial Photo Revised 1976



Woodruff 1983 7.5-minute, 24000 Aerial Photo Revised 1976



Hickory Tavern 1983 7.5-minute, 24000 Aerial Photo Revised 1976

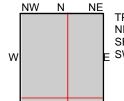


Fountain Inn 1983 7.5-minute, 24000 Aerial Photo Revised 1976

### 1957 Source Sheets



Fountain Inn 1957 15-minute, 62500 Aerial Photo Revised 1956



SE

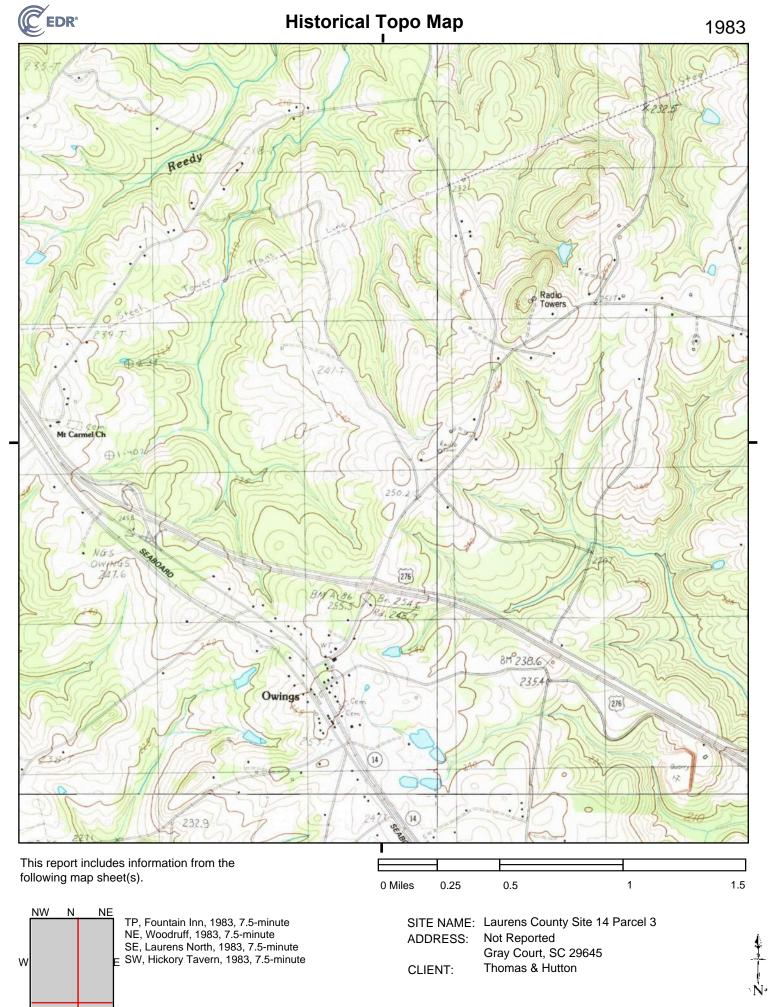
TP, Fountain Inn, 2014, 7.5-minute NE, Woodruff, 2014, 7.5-minute SE, Laurens North, 2014, 7.5-minute SW, Hickory Tavern, 2014, 7.5-minute SITE NAME: Laurens County Site 14 Parcel 3

ADDRESS: Not Reported

Gray Court, SC 29645

CLIENT: Thomas & Hutton





Gray Court, SC 29645 Thomas & Hutton

CLIENT:

Laurens County Site 14 Parcel 3 Not Reported Gray Court, SC 29645

Inquiry Number: 5267637.3

April 23, 2018

# **Certified Sanborn® Map Report**



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

## **Certified Sanborn® Map Report**

04/23/18

Site Name: Client Name:

Laurens County Site 14 Parcel Thomas & Hutton
Not Reported P.O. Box 7608
Gray Court, SC 29645 Columbia, SC 29202
EDR Inquiry # 5267637.3 Contact: Kate Mccoy



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Thomas & Hutton 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.

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 # CBDF-4019-A2FA

**PO#** 26942.0004

Project Laurens County site 14-3

#### **UNMAPPED PROPERTY**

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: CBDF-4019-A2FA

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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**Laurens County Site 14 Parcel 3** 

Not Reported Gray Court, SC 29645

Inquiry Number: 5267637.5

April 24, 2018

# The EDR-City Directory Image Report

### **TABLE OF CONTENTS**

### **SECTION**

**Executive Summary** 

**Findings** 

**City Directory Images** 

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

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### **EXECUTIVE SUMMARY**

### **DESCRIPTION**

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

### **RECORD SOURCES**

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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### RESEARCH SUMMARY

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

<u>Year</u>	<u>Target Street</u>	Cross Street	<u>Source</u>
2014			<b>EDR Digital Archive</b>
2010			<b>EDR Digital Archive</b>
2005			<b>EDR Digital Archive</b>
2000			<b>EDR Digital Archive</b>
1995			<b>EDR Digital Archive</b>
1992			EDR Digital Archive

# **FINDINGS**

### TARGET PROPERTY STREET

Not Reported Gray Court, SC 29645

<u>Year</u>	<u>CD Image</u>	<u>Source</u>			
OLD DAIRY RD					
2014	-	EDR Digital Archive	Street not listed in Source		
2010	-	EDR Digital Archive	Street not listed in Source		
2005	-	EDR Digital Archive	Street not listed in Source		
2000	-	EDR Digital Archive	Street not listed in Source		
1995	-	EDR Digital Archive	Street not listed in Source		
1992	-	EDR Digital Archive	Street not listed in Source		

Page 2 5267637-5

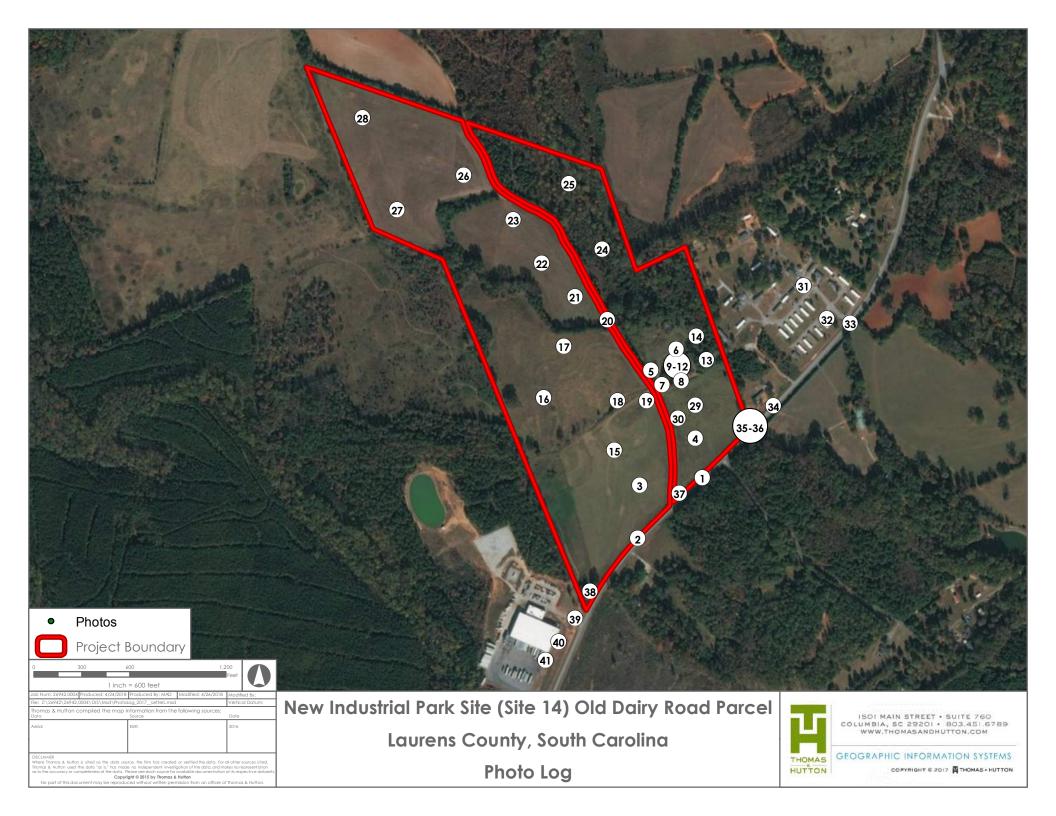
# **FINDINGS**

## **CROSS STREETS**

No Cross Streets Identified

5267637-5 Page 3

# Appendix C Photographs 1 through 41



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 1
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: North
COMMENT:
Friendship Church Road.



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 2
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: Southwest
COMMENT:
Friendship Church Road.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation

PROJECT #: 26942.0004

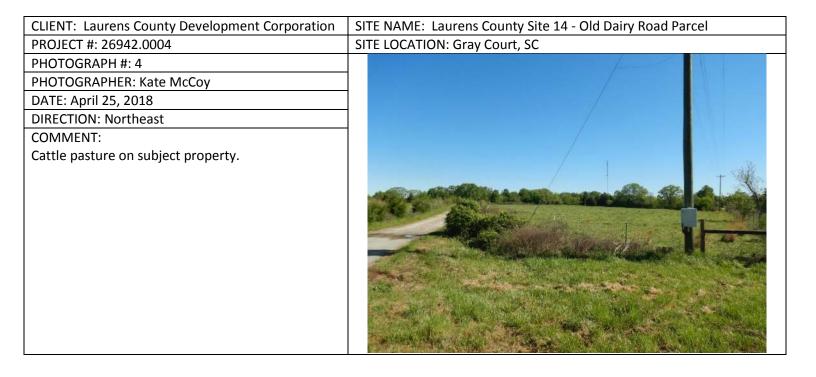
PHOTOGRAPH #: 3

PHOTOGRAPHER: Kate McCoy

DATE: April 25, 2018

DIRECTION: West

COMMENT:
Cattle pasture on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 5
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: North
COMMENT:
Cattle pen on subject property.
SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel
SITE LOCATION: Gray Court, SC



CLIENT: Laurens County Development Corporation	SITE NAME: Laurens County Site
PROJECT #: 26942.0004	SITE LOCATION: Gray Court, SC
PHOTOGRAPH #: 6	
PHOTOGRAPHER: Kate McCoy	
DATE: April 25, 2018	
DIRECTION: Northeast	
COMMENT:	
Grassed area of subject property.	A



14 - Old Dairy Road Parcel

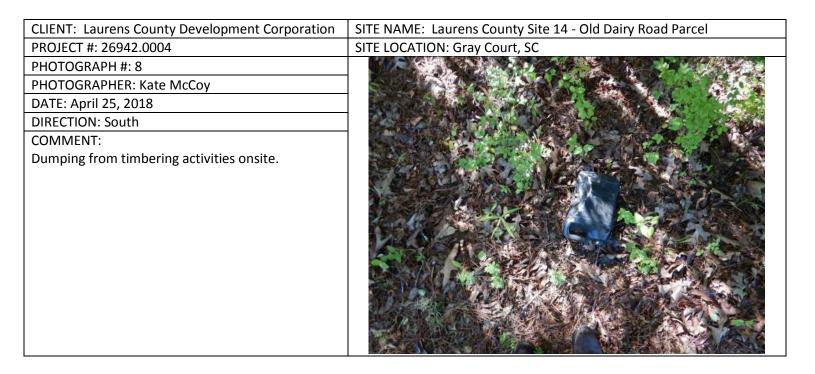
Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 7
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: East
COMMENT:
Old gate on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation

PROJECT #: 26942.0004

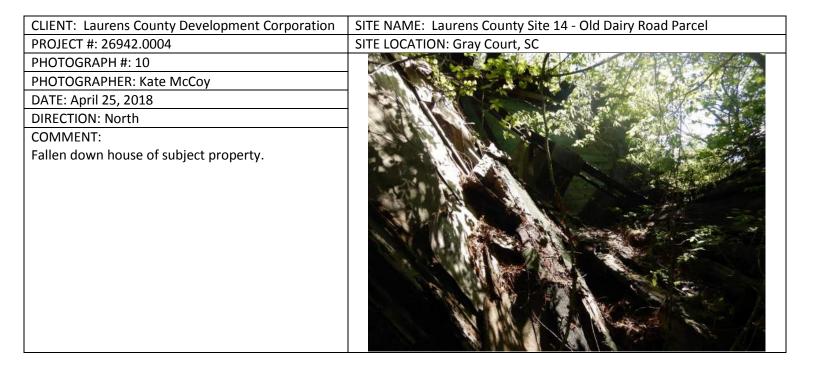
PHOTOGRAPH #: 9

PHOTOGRAPHER: Kate McCoy

DATE: April 25, 2018

DIRECTION: North

COMMENT:
Fallen down house on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation

PROJECT #: 26942.0004

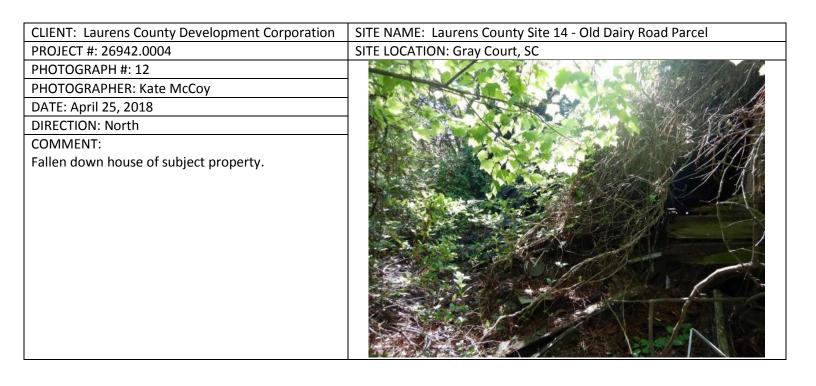
PHOTOGRAPH #: 11

PHOTOGRAPHER: Kate McCoy

DATE: April 25, 2018

DIRECTION: North

COMMENT:
Fallen down house of subject property.



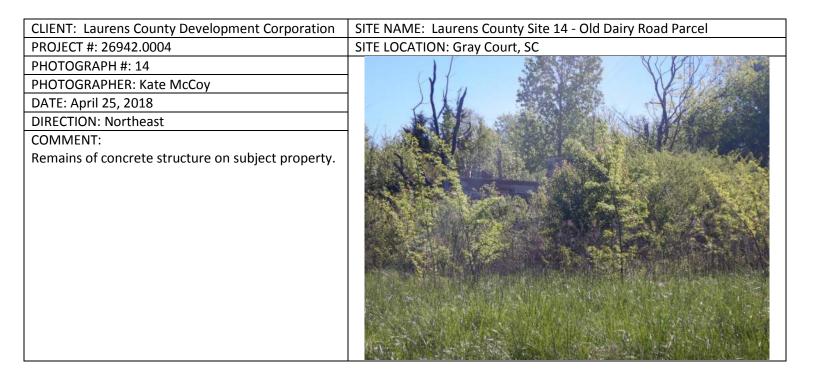
Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel
SITE LOCATION: Gray Court, SC
PHOTOGRAPH #: 13
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: Northeast
COMMENT:
Grassed area of subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation

PROJECT #: 26942.0004

PHOTOGRAPH #: 15

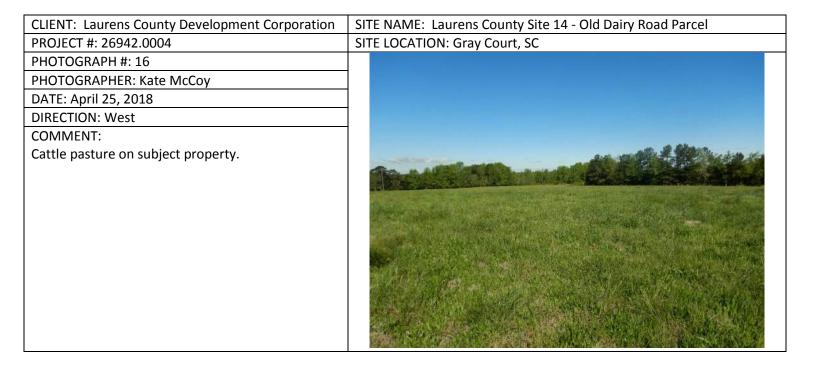
PHOTOGRAPHER: Kate McCoy

DATE: April 25, 2018

DIRECTION: Southwest

COMMENT:

Cattle pasture on subject property.



Environmental Site Assessment

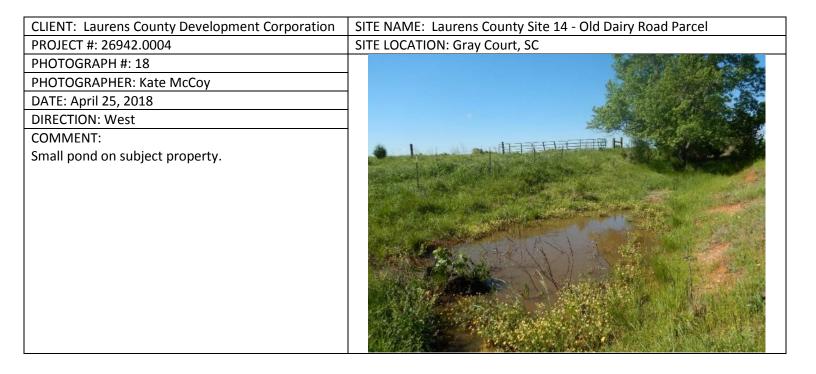
Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
SITE LOCATION: Gray Court, SC

PHOTOGRAPH #: 17
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: North
COMMENT:
Cattle pasture on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



**CLIENT: Laurens County Development Corporation** SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel PROJECT #: 26942.0004 PHOTOGRAPH #: 19 PHOTOGRAPHER: Kate McCoy DATE: April 25, 2018 **DIRECTION: East** COMMENT: Watering trough on subject property.



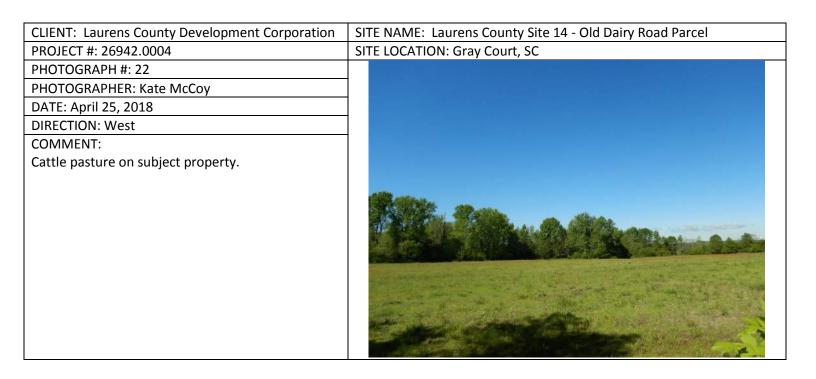
CLIENT: Laurens County Development Corporation	SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel
PROJECT #: 26942.0004	SITE LOCATION: Gray Court, SC
PHOTOGRAPH #: 20	
PHOTOGRAPHER: Kate McCoy	
DATE: April 25, 2018	
DIRECTION: Southeast	
COMMENT:	
Old Dairy Road through subject property.	



**Environmental Site Assessment** Laurens County Development Corporation – Laurens County Site 14 Old Dairy **Road Parcel** 



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 21
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: South
COMMENT:
Cattle pasture on subject property.



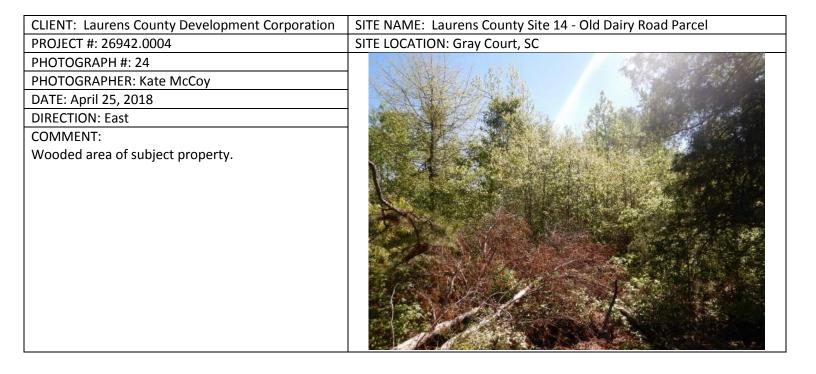
Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 23
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: Northwest
COMMENT:
Cattle pasture on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 25
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: East
COMMENT:
Wooded area on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 27
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
Cattle pasture on subject property.

SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel
SITE LOCATION: Gray Court, SC



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 28
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: Northwest
COMMENT:
Cattle pasture on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 29
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: East
COMMENT:
Cattle pasture on subject property.



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 30
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: Southeast
COMMENT:
Cattle pasture on subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 31
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
Residential trailers located adjacent to subject property.



SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel

CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 32
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
Residential trailers located adjacent to subject property.



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 33
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
Residential trailers located adjacent to subject property.



SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel

CLIENT: Laurens County Development Corporation	SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel
PROJECT #: 26942.0004	SITE LOCATION: Gray Court, SC
PHOTOGRAPH #: 34	
PHOTOGRAPHER: Kate McCoy	
DATE: April 25, 2018	
DIRECTION: Northwest	and the
COMMENT:	
Residence located adjacent to subject property.	



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 35
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
In-use electrical equipment on subject property.



SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel

SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel

CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 36
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
In-use electrical equipment on subject property.



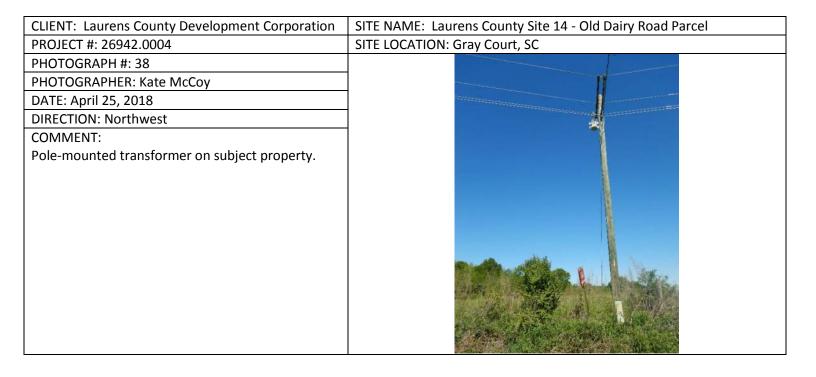
Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation	SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel		
PROJECT #: 26942.0004	SITE LOCATION: Gray Court, SC		
PHOTOGRAPH #: 37			
PHOTOGRAPHER: Kate McCoy			
DATE: April 25, 2018			
DIRECTION: Northwest			
COMMENT:			
Pole-mounted transformer on subject property.			



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation
PROJECT #: 26942.0004
PHOTOGRAPH #: 39
PHOTOGRAPHER: Kate McCoy
DATE: April 25, 2018
DIRECTION: West
COMMENT:
Country Fresh, Inc., adjacent to subject property to the south.



SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel

CLIENT: Laurens County Development Corporation	SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel		
PROJECT #: 26942.0004	SITE LOCATION: Gray Court, SC		
PHOTOGRAPH #: 40			
PHOTOGRAPHER: Kate McCoy			
DATE: April 25, 2018			
DIRECTION: West			
COMMENT:			
Country Fresh, Inc., adjacent to subject property to	Mrs.		
the south.	THE PARTY OF THE P		



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



CLIENT: Laurens County Development Corporation	SITE NAME: Laurens County Site 14 - Old Dairy Road Parcel	
PROJECT #: 26942.0004	SITE LOCATION: Gray Court, SC	
PHOTOGRAPH #: 41		
PHOTOGRAPHER: Kate McCoy		
DATE: April 25, 2018	+	
DIRECTION: West	A STATE OF THE PARTY OF THE PAR	
COMMENT:	Marie Committee Committee Committee	
Country Fresh, Inc., adjacent to subject property to	A STATE OF THE PARTY OF	
the south.		



Environmental Site Assessment

Laurens County Development Corporation – Laurens County Site 14 Old Dairy

Road Parcel



# Appendix D SCDHEC Freedom of Information Act Request



# Freedom of Information Request Form Customer Service: (803) 898-3882

Date: <u>04-23-2018</u>	Internal request number:	1 0 20 10 1
Contact information	NOT CHEET FOR THE PARTY	
Name: Katie McCoy	Company/Organization: Thomas and H	utton
Street address: 1501 Main Street	City: Columbia State:	
Phone number: 803-451-6797	Email address: mccoy.k@thomasandh	utton.com
Request information		
I'm requesting: Specific documer	nts  File review	
Facility or project name: Laurens County	Site 14 - 93 Acre Parcel	1940-1
Facility address: Friendship Church Roa	d and Old Dairy Road	
County: Laurens County	_	
DHEC file custodian/staff contact if known	n:	
Description of documents or files request	ed:	
	iles related to this site, to include : RCRA, hazardous purposes of conducting an Environmental Site Asse	
The property consists of the property en	closed in TMS # 188-00-00-003 in Laurens County.	
The property sensists of the property on	siosed in Title # 100 00 00 00 in Laurens county.	
	¥	
Family Briggey Protection Act stateme	ont in the second secon	
Family Privacy Protection Act stateme		CHOUNTER HE WEIGHT
The Family Privacy Protection Act, SC Co	ode Section 30-2-50, prohibits any person or private	entity from knowingly obtaining
	ed from our agency for commercial solicitation directed	ed to any person in the State.
Violation of this law is a crime.		
I have read and understand this statement solicitation or in violation of law.	nt. I am not requesting personal information for the p	urposes of commercial
Signed: XMQ9 M/S	COS.	
	gov • Fax: (803) 898-3816 • Mail: FOI Office, 2600 B	ull St., Columbia, S.C. 29201
Office Use Only: Date completed:		
Billing Info: Research: Time:		
Description:		
Description.		
Senter Done #		] OD double-45 #
	ocuments #: Hard copies #: [	I CD duplication #:
Delivery options: Pick up Emailed	☐ Mailed ☐ Other:	Total charge:



Freedom of Information Center / Sims/Aycock Building 2600 Bull St, Columbia, SC 29201

and Environmental Control

Ms. Katie McCoy THOMAS & HUTTON 1501 MAIN ST STE 760 COLUMBIA, SC 29201 4/23/2018

Request Number:

1804315

Re.

Laurens County Site 14-93 Acre Parcel Friendship Church Road and Old Dairy Road

Laurens, SC

Dear Ms. Katie McCoy,

Your request for the above referenced information has been received by the Freedom of Information Center. The Freedom of Information staff are currently researching and compiling this information. You will be notified by our office when the research process is complete. DHEC will make the requested information available for review and copying to the extent it is not protected from disclosure pursuant to section 30-4-30 of the Freedom of Information Act.

If we are unable to locate files on a facility, based on the information submitted, you will be notified by mail.

Further inquiries regarding your request should include your above mentioned Freedom of Information Request Number. We can be reached at (803) 898 - 3882.

Sincerely,

Karla York, Director

Freedom of Information Office

South Carolina Department of Health and Environmental Control

2600 Bull Street ~ Columbia, SC 29201 ~ Phone (803) 898-3432 ~www.scdhec.gov



# Freedom of Information Center / Sims/Aycock Building 2600 Bull St, Columbia, SC 29201

Ms. Katie McCoy THOMAS & HUTTON **1501 MAIN ST STE 760** COLUMBIA, SC 29201 4/24/2018

Request Number:

1804315

Re: Laurens County Site 14-93 Acre Parcel Friendship Church Road and Old Dairy Road

Laurens, SC

Dear Ms. Katie McCoy,

This is to advise you that the Freedom of Information Center could not locate any files on the referenced subject, company individual, and /or address as submitted. This request is now closed.

If you feel that the information you requested may be found under another name or description, please submit the additional information by fax (803) 898 - 3816 referencing the above Request Number.

If you have any questions or require further assistance, please contact our office at (803) 898 - 3882.

Sincerely,

Karla York, Director

Freedom of Information Office

South Carolina Department of Health and Environmental Control

2600 Bull Street ~ Columbia, SC 29201 ~ Phone (803) 898-3432 ~www.scdhec.gov

# Appendix E Signature of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in #312.10 of 40 CFR 312. I have the specific qualifications based on my education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Lisa B. Muzekari, P.E.

Date

4-26-18

# Appendix F Qualifications of Environmental Professional

# Lisa Muzekari, PE | Senior Project Manager

Lisa Muzekari is a Senior Project Manager with over 20 years of experience in environmental engineering. She has managed a practice group focusing on environmental health and safety compliance and solid waste management and is recognized in her field for providing environmental assessments, permitting, planning, and compliance strategies for municipal and private clients. Lisa's experience includes water, wastewater, air, environmental planning, permitting and compliance, industrial and hazardous waste, air modeling, and safety and emergency planning. She is responsible for various phases of engineering projects, from conception and planning to design. Lisa's areas of expertise includes air permitting/modeling; environmental assessment; stormwater management; spill prevention control and countermeasures plans; CERCLA/RCRA hazardous waste; process safety management plans; risk management programs; water, wastewater, and reuse water studies; and solid waste evaluations.

#### Education

University of South Carolina - M.S. in Civil Engineering, 1992 University of South Carolina - B.S. in Civil Engineering, 1991

# **Professional Registrations**

Professional Engineer in SC, NC, GA

### **Professional Associations**

Water Environment Association of South Carolina, Water Environment Federation, Carolinas Air Pollution Control Association

# **Project Experience**

Hazardous Waste / Environmental Site Assessments

**Various Clients**, Project Manager and Environmental Professional for Phase I Environmental Site Assessment activities for various subject properties. The Phase I ESAs were conducted in accordance with ASTM Standard E1527-13.

- Union County, SC Trakas Site
- Spartanburg County, SC Victor Hill Site
- Johns Island, SC Hoggard Lane at Main Road Site
- North Charleston, SC Patriot Park Site
- Berkeley County, SC Berkeley County Schools Williams Lane Site
- Oconee County, SC Seneca Rail Site
- Beaufort County, SC Various Potential Economic Development Sites
- Richland County, SC Colony Tire Site, Bluff Road
- Spartanburg County, SC Cedar Crest Road Site
- Dorchester County, SC 2,000 acre Industrial Economic Development Site

**City of Dublin, Mulch Site Investigation, Dublin, GA**, Project Engineer responsible for the development of a Corrective Action Plan and Initial Investigation related to disposal and burning activities at the City mulch site. The investigation included an asbestos inspection/survey and soil/waste characterization sampling. Remediation activities include asbestos abatement and soil excavation. The Remediation Phase and Abatement Phase are in the process of being coordinated with GAEPD.

**Liberty Sun Energy, LLC, Environmental Assessment, Walterboro, SC**, Project Manager and Environmental Professional for the Phase I Environmental Site Assessment activities for a proposed solar farm to be located in Colleton County, South Carolina. The Phase I ESA was conducted in accordance with ASTM Standard E1527-05.

**Savannah Housing Authority – Hitch Village, Environmental Assessment, Savannah, GA**, Project Manager and Environmental Professional for the Phase I Environmental Site Assessment activities for the former Hitch Village property located in the City of Savannah, Georgia. The Phase I ESA was conducted in accordance with ASTM Standard E1527-05.

Owens-Corning, Savannah Asphalt Facility Asbestos Abatement and Demolition, Savannah, GA, Coordination of asbestos abatement activities and provided onsite observation throughout the duration of the project for the demolition of the Owens Corning former asphalt facility located in Savannah, GA. Prior to beginning the onsite activities, preparation of site-specific plans regarding the project, including a site-specific Health and Safety Plan, Work Plan, and Environmental Mitigation Plan. A total of 12,244 linear feet/square feet of asbestos containing material was abated, 310 tons of mixed scrap metal was transported and reclaimed, 3,500 gallons of oil and oily sludge was removed and transported for energy recovery, and 26 loads (40 yd3 boxes) of concrete was sent to crushing for reclaim. \*

**Town of Moncks Corner, Umphlett Lumber Tract Environmental Assessment and Remediation, Moncks Corner SC,** Provided professional engineering services to conduct response actions as identified in the SCDHEC Voluntary Cleanup Contract. Assessment activities and remediation activities included the installation and sampling of shallow ground water monitoring wells at five locations, collection of surface and subsurface soil samples at over 20 locations, collection of sediment and corresponding surface water samples at two locations, and excavation and disposal of arsenic contaminated soil. No groundwater contaminants were detected.\*

**City of Walterboro, Rizer Ford Environmental Assessment and Remediation, Walterboro, SC,** Project Manager for the Phase I and II Environmental Site Assessment activities for the former Rizer Ford Property. Investigative activities included soil and ground water evaluation. As a result of the site assessment activities, services included assisting the City with drafting a Voluntary Cleanup Contract with SCDHEC for the cleanup of the property to be used for redevelopment.\*

**South Carolina Research Authority, Catawba Street Property Phase I and Phase II ESA, Columbia, SC,** Conducted Phase I and Phase II Environmental Site Assessments for former warehouse site. The assessment included the installation of temporary ground water monitoring wells and groundwater sampling. \*

AME Development Group, Cypress Grove Development Site Investigation, Moncks Corner, SC, Provided preliminary site investigation of soil and water. A GPR investigation was conducted to identify subsurface anomalies (e.g., buried drums) in the area of concern and exploratory excavations were conducted with URS/BP Barber oversight. After completion of the initial investigation, URS/BP Barber proceeded with additional field activities. All areas identified in the GPR Investigation were evaluated and further excavation of waste material was conducted. Excavated material, debris and waste drums were properly contained in lined roll-off containers and samples were obtained for characterization for disposal of the hazardous and non-hazardous material.\*

**600 Assembly Street, Site Assessment, Columbia, SC,** Conducted a site assessment, which included locating underground storage tanks. The assessment included a ground penetrating radar investigation, asbestos inspection, soil screening, and soil sampling. \*

**Buncombe County Landfill, Contamination Assessment, Asheville, NC,** Conducted and supervised a contamination assessment, which included installation of monitoring wells, modified Dutch Cone Penetrometer investigation, borehole geophysical investigation, discrete zone sampling, and Packer Test investigation.\*

**Fishburne International, Contamination Assessment, Asheville, NC,** Conducted and supervised a contamination assessment, which included the installation of temporary well points, groundwater and surface water sampling, and modified Dutch Cone Penetrometer investigation.\*

**Kalama Chemicals, Inc., Beaufort, SC,** Provided statistical support as a team member in conducting a baseline risk assessment on a Superfund Potential Responsible Party lead RI/FS project.\*

**Lindau Chemicals, Site Assessment, Columbia, SC**, Conducted a site assessment to locate underground storage tanks. The assessment included a ground penetrating radar investigation, soil screening, and soil sampling.\*

NASA, RCRA Facility Investigation Kennedy Space Center, Cape Canaveral, FL, Performed a RCRA Facility Investigation for a NASA facility, which included assessment of soil, surface water, and groundwater contamination.\*

**Sears Fuel Storage Site, Remedial Action Plan, Miami, FL**, Developed a Remedial Action Plan for the abandoned fuel storage site, which included design of recovery wells, air stripping system, infiltration gallery, and soil vapor extraction system. \*

## Air Permitting and Dispersion Modeling

**Various Clients**, Air Permit Application Packages including permit forms, emission calculations, process descriptions, and dispersion modeling results were compiled for over 100 industries and municipalities. The Aermod, ISC2, ISC3, and Screen models were utilized in performing the air dispersion modeling.

- ABB Power T&D Company Inc.
- Aiken Regional Medical Center
- American Eagle Wheel Corporation
- American Italian Pasta Company
- American Titanium Works
- Amick Farms, Inc.
- Beaufort-Jasper Water & Sewer Authority
- BioEnergy
- Carolina International Trucks
- Charleston Water System
- City of Columbia
- Department of Public Utilities, City of Orangeburg
- Devro-Teepak
- Dixie Clay Company
- Eastern Pacific International
- EFCO Corporation
- Filtration Group Technical Media
- Fisher Tank
- Fitesa
- City of Florence
- Florence Concrete Products
- Hilton Head Island Public Service District
- Holcim (US) Inc.
- Honda of South Carolina Mfg., Inc.
- Institute for Business & Home Safety
- John Deere Consumer Products

- Kings Electronics Co., Inc.
- Kiswire, Inc.
- Martin Color-Fi, Inc.
- Modine Manufacturing Company
- MTU Detroit Diesel
- Musashi South Carolina, Inc.
- New London Engineering
- New Millenium Building Systems
- Nucor Building Systems
- Phoenix Finishing
- Providence Hospital Northeast
- Rifenburg Construction for GSP International Airport
- South Carolina State Farmers Market
- South Island Public Service District
- Southland Log Homes
- Spirax Sarco
- Tranter Radiator Products
- Walgreens
- Waste2 Energy, LLC
- Wateree Dyeing and Finishing Corporation
- Wateree Textile
- Weisz Graphics
- Town of Winnsboro
- Yanagawa
- York County Industries

**City of Myrtle Beach, Water Reclamation Facility, Myrtle Beach, SC**, A conditional major Title V Permit Application was prepared for the major source of hazardous air pollutants. The permit application limited the number of hours the City could operate their odor control scrubbers in order to be classified as a conditional major source. \*

**Department of Public Utilities, City of Orangeburg, WWTP, Orangeburg, SC,** Prepared a Title V Permit Application for all emission sources at the wastewater treatment plant. Permitting included a sludge dryer utilizing heat from electrical turbines. \*

**City of Columbia, Metro Wastewater Treatment Plant, Columbia, SC**, Performed Air Dispersion modeling for the sludge incinerators in order to comply with State and Federal Regulations for the stack test results. Provided professional engineering services for the renewal of the air permit. \*

**City of Columbia, Metro Wastewater Treatment Plant, Columbia, SC,** Coordinated Information Collection Rule (ICR) request from EPA for sewage sludge incineration units, including stack testing data collection, communications with EPA, and completion and submission of required documentation for EPA. The ICR resulted in the promulgation of new source performance standards and emission guidelines for sewage sludge incineration units located at wastewater treatment facilities designed to treat domestic sewage sludge.\*

**Aiken County Public Service Authority, Horse Creek Pollution Control Facility, North Augusta, SC,** Prepared the Air Permitting Application and performed Air Dispersion Modeling for sludge dryer. \*

**Homelite**, **Inc**, **Greer**, **SC**, Prepared a Title V Permit Application for all industrial activities at the Homelite Greer Facility. \*

**Tranter, Inc, Edgefield, SC,** Prepared a Title V Permit Application for all of the on-site industrial activities related to the manufacturing of heat exchange units. \*

**Devro, Inc., Sandy Run, SC,** Prepared various construction permit applications, including new production lines and boilers, and a Title V Permit Application for all industrial activities related to the manufacturing of collagen casings. Additionally, the Storm Water Pollution Prevention Plan (SWPPP), SPCC Plan, Emergency Response Plan, Process Safety Management Plan, and Risk Management Plan were prepared for the facility and are kept upto-date in accordance with regulations and as plant changes occur. \*

**Honda Manufacturing of South Carolina, Inc., Timmonsville, SC**, Prepared various construction permit applications, including new production lines for Personal Water Craft, and Operating Permit renewals for all industrial activities related to the manufacturing of ATVs. Additionally, the Storm Water Pollution Prevention Plan (SWPPP) and SPCC Plan were prepared for the facility and are kept up-to-date in accordance with regulations and as plant changes occur. \*

**Green Energy Holdings, Bio Mass Facility, Orangeburg County, SC**, Prepared Air Permitting Application. Research and technical assistance with replying to SCDHEC on air permit application submittal. \*

**Waste 2 Energy, Waste Processing Facility, Columbia, SC,** Prepared Air Permitting Application for proposed bio energy facility, which included the anaerobic digestion of food and yard waste to produce methane to be burned in generators for power production. Emission calculations, air dispersion modeling, and air permit application prepared for submittal to SCDHEC.\*

**BioEnergy, Berkeley County, SC,** Prepared Air Permitting Application for proposed bio energy facility, which included the anaerobic digestion of municipal sludge, grease trap waste, and DAF waste to produce methane to be burned in a Combined Heat and Power (CHP) unit, boiler, and flare, when needed. Emission calculations, air dispersion modeling, and air permit application prepared for submittal to SCDHEC. Additionally, overall project management of the development of a SPCC Plan, BMP Plan, Wastewater Construction Permit, and Land Application of Biosolids Permit packages were prepared for the facility. The facility was the first of its kind in South Carolina, therefore coordination with all Bureaus of SCDHEC were required to obtain all permits for the construction and operation of the facility. The facility was permitted as a wastewater treatment facility since it accepts 503 regulated biosolids as a feed material.\*

### **Stormwater Pollution Prevention Plans**

Developed Stormwater Pollution Prevention Plans (SWP3s) for over 75 regulated facilities. The Stormwater Pollution Prevention Plans included site assessments, identification of potential pollutant sources, development of best management practices, monitoring requirements, visual assessments, and development of management procedures to maintain site compliance. Stormwater Pollution Prevention Plans were developed in accordance with Industrial General Permits in SC, NC, and GA. Recent experience includes SWP3s prepared for the following clients:

- Alpine Utilities Stoops Creek WWTP
- American Italian Pasta Company

- Amick Farms Processing Plant
- Amick Farms Feed Mill

- ArvinMeritor
- City of Barnwell WWTP
- Town of Batesburg-Leesville WWTP
- Beaufort-Jasper Water & Sewer Authority Cherry Point WWTP
- Beaufort-Jasper Water & Sewer Authority Hardeeville WWTP
- City of Bennettsville WWTP
- Boozer Lumber Company
- Charleston Water System Daniel Island and Plum Island WWTPs
- City of Clinton Department of Public Works
- Corley Lumber Mill
- DeRoyal Textiles
- Devro
- Dorchester County WWTP
- Dorchester County Airport I
- Dorchester County Airport II
- East Richland County Public Service District
- City of Florence WWTP
- Florence Concrete Products
- Greenwood Metropolitan District West Alexander WWTP and Wilson Creek WWTP
- City of Hartsville WWTP
- City of Hartsville Airport
- Hilton Head Public Service District WWTP
- Honda of SC Mfg., Inc.
- City of Inman WWTP
- Kings Electronics
- Town of Kingstree WWTP

- City of Lake City WWTP
- City of Lake City Airport
- City of Lake City C&D Landfill
- City of Mullins WWTP
- Musashi
- City of North Myrtle Beach Ocean Drive WWTP
- City of North Myrtle Beach Crescent Beach WWTP
- ReWa Durbin Creek WWTP
- ReWa Georges Creek WWTP
- ReWa Gilder Creek WWTP
- ReWa Grove Creek WWTP
- ReWa Lower Reedy WWTP
- ReWa Marietta WWTP
- ReWa Mauldin Road WWTP
- ReWa Pelham WWTP
- ReWa Piedmont WWTP
- ReWa Taylors WWTP
- ReWa Maintenance / Shop Area
- Richland County Broad River WWTP
- Siemens VDO
- Spartanburg Water Landrum Page Creek WWTP
- Spirax Sarco
- Town of Summerton WWTP
- TMA
- Tyson Foods
- Yanagawa

# Spill Prevention Control and Countermeasures Plans

Developed Spill Prevention Control and Countermeasures Plans (SPCCs) for numerous facilities in the Southeast. The SPCC plans were developed to addresses petroleum/oil storage and handling operations of the facility. The SPCC Plans provided the written documentation of the site-specific measures (procedural and structural) the facility was to implement to prevent or minimize any discharge of petroleum/oil into the waters of the United States. The SPCC Plans were prepared to meet the requirements of the revised SPCC Regulation (40 CFR 112). Recent experience includes SPCCs prepared for the following clients:

- American Italian Pasta Company
- Amick Broilers, Inc.
- Amick Farms, Inc.
- Arvin Meritor
- Beaufort Jasper Water and Sewer Authority
  - Cherry Point WWTP
- Beaufort Jasper Water and Sewer Authority
  - Port Royal WWTP
- Beaufort Jasper Water and Sewer Authority
  - Purrysburg WTP
- City of Barnwell WWTP
- City of Bennettsville WWTP
- City of Clinton WTP
- City of Florence WWTP
- City of Hartsville WWTP
- City of Newberry Public Works Department

- City of Newberry WTP
- City of Newberry WWTP
- Devro-Teepak
- Dilmar Oil
- Dorchester County Airports
- Dorchester County WWTP
- Dorchester Excavating
- East Richland County Public Service District WWTP
- Eastern Pacific International
- Energis LLC
- Florence Concrete Products
- Greenwood Metropolitan Sewer District
- Holcim (US) Inc.
- Honda of South Carolina Mfg., Inc.

- John Deere Consumer Products -Bradenton, FL Test Facility
- John Deere Consumer Products Columbia, SC Facility
- John Deere Consumer Products Gastonia, NC Facility
- John Deere Springs Farm Shop Rock Hill, SC
- John Deere Southeast Engineering Center Charlotte, NC
- KPR Holdings
- Laurens County Water and Sewer Commission – Joanna WWTP

- Meritor Automotive
- Meritor Heavy Vehicle Systems
- M.L. Corley & Sons Sawmill, Inc.
- Musashi South Carolina, Inc.
- Oak Mitsui
- Otis Spunkmeyer
- Ridge Recyclers
- Rockwell International
- Siemens VDO
- South Island Public Service District
- Transaxle Manufacturing of America
- Tyson Foods

## **Process Safety Management Plans**

Developed Process Safety Management Programs for over 30 facilities. Prepared written programs, performed compliance audits, completed process hazard analysis, developed standard operating procedures, and evaluated and documented mechanical integrity program.

# **Emergency Action Plans**

Developed Emergency Action Plans for the following entities:

- Greenwood Commissioners of Public Works
- Hilton Head Public Service District
- City of Bennettsville, SC

#### **Risk Management Programs**

Developed Risk Management Programs in accordance with 40 CFR 68 for the over 30 facilities. The Risk Management Programs addressed Prevention Programs, Management Programs, and Hazard Assessment Programs. Off-site consequence analyses were performed utilizing the Degadis air dispersion model to determine the extents of possible release scenarios. RMP Programs were developed for chemicals including chlorine, sulfur dioxide, and ammonia.\*

#### **Stormwater Management**

**Richland County, Industrial and High Risk Runoff Program, Columbia, SC,** Development of program for Richland County to control Industrial and High Risk Runoff. Richland County holds a NPDES Phase I Permit. \*

**City of Hartsville, Stormwater Utility, Hartsville, SC**, Development of financial requirements for the development of a stormwater utility for the City of Hartsville in order to comply with the upcoming requirements of NPDES Phase II permitting.\*

### **CMOM Audits and Programs**

**Anderson County, SC**, Assisted in the EPA Capacity, Management, Operation, and Maintenance (CMOM) Audit conducted as part of the voluntary CMOM analysis program EPA asked Anderson County to participate in. \*

**City of Clemson, SC,** Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Audit for the City of Clemson collection system. \*

**East Richland County Public Service District, Columbia, SC**, Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Audit for the East Richland County Public Service District collection system. \* **East Richland County Public Service District, Columbia, SC**, Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Program for the East Richland County Public Service District including several programs for operation and maintenance of the collection system. \*

**Laurens County Water and Sewer Commission Laurens, SC**, Prepared Capacity, Management, Operation, and Maintenance (CMOM) Program components for the Laurens County Water and Sewer Commission including various programs for the operation and maintenance of the collection system. \*

**City of Myrtle Beach, SC**, Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Audit and CMOM Program for the City of Myrtle Beach collection system.\*

**Town of Summerton, SC**, Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Audit for the Town of Summerton collection system. \*

**Town of Summerton, SC**, Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Program for the Town of Summerton including various programs for the operation and maintenance of the collection system.\*

**Taylors Fire and Sewer District, Taylors, SC,** Prepared a Capacity, Management, Operation, and Maintenance (CMOM) Program for the Taylors Fire and Sewer District including several programs for operation and maintenance of the collection system. \*

# Solid Waste Management

**Anderson County, Financial Analysis of Waste Management Alternatives, Anderson, SC,** Prepared a financial analysis of waste management alternatives. Analysis included the construction of a regional Subtitle D facility and the contrasting with a private company to purchase the County landfill and provide solid waste management services. \*

Chester County, Financial Analysis of Waste Management Alternatives, Chester, SC, Prepared a financial analysis of waste management alternatives. \*

**York County, Financial Analysis of Waste Management Alternatives, York, SC,** Prepared a financial analysis of waste management alternatives. Analysis included the construction of a Subtitle D facility and the utilization of a regional landfill. The analysis also included a C&D landfill and composting area for yard waste. \*

**Homelite, Waste Minimization Plan, Columbia, SC**, Responsible for development of Waste Minimization Plan for production activities at the Homelite facility. \*

**York County, Groundwater Quality Assessment Plan, York, SC,** Prepared a groundwater quality assessment plan for the York County Landfill. The plan addressed placement of monitoring wells and required analyses. \*

#### Source Water Assessment Programs

**Beaufort Jasper Water & Sewer Authority, Okatie, SC**, Developed a Source Water Assessment Program for the Beaufort Jasper Water & Sewer Authority to locate potential contaminant sources for their wells and surface water source. The project included the coordination between the BJW&SA and the City of Savannah SWAPs. \*

**City of Bennettsville, SC**, Developed a Source Water Protection Program for the City of Bennettsville Water Treatment Plant to locate potential contaminant sources for their wells and surface water source.\*

**Eastern Band of Cherokee Indians, Cherokee, NC,** Developed a Source Water Assessment Program for the Qualla Boundary in Cherokee, North Carolina. The SWAP included one surface water source, six springs, and over thirty wells. The SWAP was coordinated with EPA Region IV and included GPS and GIS deliverables.\*

**City of Savannah**, **GA**, Developed a Source Water Assessment Program for the City of Savannah I&D Water Treatment Plant to locate potential contaminant sources for their surface water source. The project included the coordination between the City of Savannah and the Beaufort Jasper Water and Sewer Authority and the formation of a Source Water Protection Task Force Committee.\*

Water, Wastewater and Reuse Water Plans and Studies

**Chester County, Countywide Wastewater System Study, Chester, SC,** Preparation of an engineering study to address the existing wastewater infrastructure and potential future growth countywide in determining alternatives for expansion of the wastewater collection system and treatment facilities. The study included preliminary cost estimates for proposed expansion of the existing system, population projections, and collection system mapping. \*

**Clarendon County, Countywide Wastewater Study, Manning, SC**, Preparation of an engineering study to analyze alternatives to create a regional sewer system in Clarendon County, including the consolidation of existing municipal systems. The study included preliminary cost estimates for various alternatives, as well as population and flow projections.\*

**City of Clemson, Evaluation of Long-Term Water Supply Options, Clemson, SC**, Performed an engineering analysis of long-term water supply options for the City of Clemson, Clemson University, and Town of Central. The study included a present worth cost analysis of water supply alternatives, including wholesale alternatives, as well as the construction of a new water treatment plant. \*

**City of Conway, Water and Wastewater System Evaluation, Conway, SC**, Project Engineer for the evaluation and financial planning of the City's water and wastewater systems. Responsible for data acquisition and evaluation of existing programs for the water distribution and sewer collection systems. Responsible also for determining future areas of growth and assisted in the determination of future capital improvement projects and prioritization. Served as the liaison to Raftelis Financial Consultants in the development of the rate model and financial plan for the water and sewer systems. \*

**Dillon County, Regional Sewer Study, Dillon, SC,** Preparation of an engineering study to analyze alternatives to create a regional sewer system in Dillon County, including the consolidation of existing municipal and private systems. The study included a present worth cost comparison for the identified alternatives. \*

**Town of Gifford/Hampton County, Water and Wastewater Viability, Hampton, SC,** Assisted with the development of a Water and Wastewater Viability Study for Hampton County, which included alternatives for regionalization of water and wastewater service in Hampton County, as well as analysis of available water and wastewater services, projected demands, and the means to provide water and wastewater to locations within the County, with a focus on consolidation and possible expansion and interconnection of existing suppliers. \*

**James Island Public Service District, Sewer System Evaluation, Charleston, SC,** Project Manager for the District's sewer system evaluation. Coordinated the asset data compilation and facilitated the valuation of the sewer system assets. \*

Marlboro County, Countywide Water Study, Bennettsville, SC, Performed a countywide engineering study for water supply throughout Marlboro County, including municipal and privately owned systems. The study analyzed the feasibility of creating a countywide system and the expansion of the existing systems into unserviced areas of the County.\*

Renewable Water Resources, Assessment of Biosolids Environmental Management System (EMS), Greenville, SC, Conducted an assessment of the developing ReWa Biosolids Environmental Management System (EMS) to aid ReWa in determining areas of the program that needed further development. Aided ReWa in their Biosolids EMS Program by developing Element 3 of their program.\*

Renewable Water Resources, Durbin Creek Wastewater Treatment Plant (WWTP) Reuse Water Feasibility Study, Greenville, SC, Development of the Durbin Creek WWTP Reuse Water Feasibility Study for WCRSA which included various alternatives for the reuse of effluent from the WWTP.\*

Renewable Water Resources, Gilder Creek Wastewater Treatment Plant (WWTP) Reuse Water Feasibility Study and PER, Greenville, SC, Development of the Gilder Creek WWTP Reuse Water Feasibility Study and Reuse

Preliminary Engineering Report for ReWa which included various alternatives for the reuse of effluent from the WWTP.\*

**Spartanburg Sanitary Sewer District, Collection System Evaluation, Spartanburg, SC**, Project Engineer for the City of Spartanburg's collection system evaluation. Responsible for coordinating the evaluation that included asset evaluation, compliance history and a financial records review. Worked closely with Raftelis Financial Consultants in the data acquisition necessary for the rate model development and financial impact analysis. Responsible for all presentations to the SSSD and City personnel to help facilitate negotiations for the transfer of assets.\*

#### Water Distribution/Treatment and Associated Projects

**Beaufort Jasper Water & Sewer Authority, Regional Water System Feasibility Study, Sheldon Township, SC,** Conducted a feasibility study for a new regional water system for Sheldon Township for the Beaufort Jasper Water & Sewer Authority. The study was performed to determine the most cost effective method of providing potable water and fire protection to the Sheldon Township area of northern Beaufort County.\*

**Charleston Water System, Raw Water Intake Model, Charleston, SC,** Developed a Fortran Model to hydraulically analyze the raw water intake system for the Water Treatment Plant for the Charleston Water System. \*

Edgefield County Water & Sewer Authority, Preliminary Engineering Report (PER) Water Distribution System Improvements, Edgefield, SC, Prepared a PER for improvements to the Edgefield County Water Distribution System.\*

## Wastewater Collection/Treatment and Associated Projects

Aiken County Public Service Authority, Preliminary Engineering Report (PER) Sludge Composting Facility at Horse Creek Pollution Control Facility, North Augusta, SC, Prepared a PER for a sludge composting facility at the Horse Creek Pollution Control Facility. Additional air permitting services were provided for a sludge dryer.\*

**American Eagle Wheel Corporation, Pretreatment System Improvements, York, SC,** Assisted in permitting with SCDHEC and the City of York for pretreatment system improvements. \*

Beaufort-Jasper Water & Sewer Authority, St. Helena Wastewater Treatment Plant (WWTP) 201 Facilities Plan, St. Helena Island, SC, Responsible for the development of a 201 Plan for the upgrade and expansion of the St. Helena WWTP.\*

Beaufort-Jasper Water & Sewer Authority, Preliminary Engineering Report (PER) St. Helena Wastewater Treatment Plant (WWTP) Expansion, St. Helena Island, SC: Preparation of Preliminary Engineering Report for Beaufort-Jasper Water & Sewer Authority for the expansion of the St. Helena WWTP.\*

**City of Bennettsville, Sludge Land Application Plan, Bennettsville, SC,** Preparation of plan for land application of Bennettsville's Wastewater Treatment Plant sludge on Becker Minerals reclamation sites. \*

City of Bishopville, Rate Analysis, Bishopville SC, Performed a rate analysis for the City's water and sewer systems.\*

City of Conway, Conway Wastewater Treatment Plant (WWTP) 201 Facilities Plan, Conway, SC: Responsible for development of 201 Facilities Plan for the upgrade and expansion of the Conway WWTP.\*

**Diebold, Operation and Maintenance Manual, Sumter, SC,** Preparation of Operation and Maintenance Manual for Diebold's Industrial Wastewater Pretreatment Facility. \*

Edgefield County Water & Sewer Authority, Preliminary Engineering Report (PER) Land Application of Alum Sludge, Edgefield, SC, Prepared a preliminary engineering report for the land application of alum sludge on private land.\*

**Kershaw County Water & Sewer Authority, 208 Water Quality Management Plan Camden, SC**, Responsible for development of 208 Water Quality Management Plan for the unincorporated areas of Kershaw County.\*

**City of Lake City, Rate Study, Lake City, SC,** Performed a rate study for the water and sewer systems to include wholesale services for sewer service. \*

MTU Detroit Diesel, Oil/Water Separator, Aiken, SC, Assisted in permitting with SCDHEC and the Aiken County Public Service Authority for the construction of an oil/water separator. \*

National Dye Works, Wastewater Treatment Plant (WWTP) Operation and Maintenance Manual, Lynchburg, SC, Preparation of Operation and Maintenance Manual for National Dye Works' Industrial WWTP. \*

City of Newberry, Newberry Wastewater Treatment Plant (WWTP) 201 Facilities Plan, Newberry, SC, Responsible for development of 201 Facilities Plan for the expansion of the Newberry WWTP.\*

**Town of Pamplico, Cost Effective Analysis of Wastewater Alternatives, Pamplico, SC,** Performed a cost-effective analysis for several wastewater treatment alternatives, which included capital costs and annual operation and maintenance costs. \*

**City of Walterboro, Sludge Management Plan, Walterboro, SC**, Developed Sludge Management Plan for the City's wastewater treatment facility to determine the most cost-effective means of sludge disposal. As a result of the sludge management plan, a preliminary engineering report was prepared and a permit obtained for land application of sludge on private farmland.\*

\* Prior Experience with Previous Employer(s)