

Phase I Environmental Site Assessment

Proposed Elevated Water Storage Tank

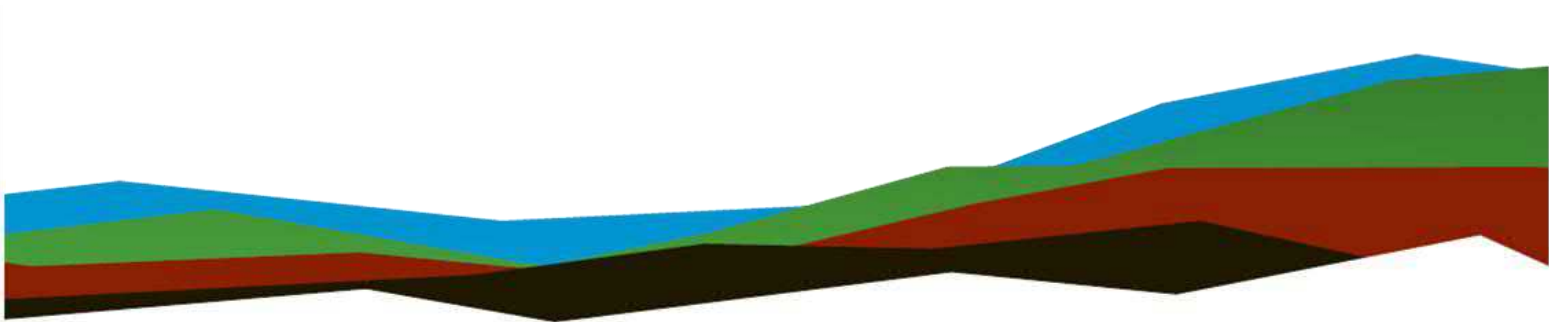
118 Cherokee Trail

Brunswick, Glynn County, Georgia

June 15, 2023 | Terracon Project No. EQ237180

Prepared for:

Brunswick-Glynn County GA
Joint Water & Sewer Commission
1703 Gloucester Street
Brunswick, GA 31520



Prepared by:

Terracon Consultants, Inc.
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June 15, 2023

Brunswick-Glynn County GA
Joint Water & Sewer Commission
1703 Gloucester Street
Brunswick, GA 31520

Attn: Mr. Todd Kline
P: (912) 261-7122
E: tkline@bgjwsc.org

Re: Phase I Environmental Site Assessment
Proposed Elevated Water Storage Tank
118 Cherokee Trail
Brunswick, Glynn County, GA 31525
Terracon Proposal No. EQ237180

Dear Mr. Kline:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with our Proposal PEQ237180, dated April 27, 2023.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to read 'Angellica Rodriguez-Baz'.

Angellica Rodriguez-Baz
Senior Staff Scientist

A handwritten signature in black ink, appearing to read 'Kyle E. Hayes'.

Kyle E. Hayes
Environmental Department Manager

Table of Contents

EXECUTIVE SUMMARY	iv
Findings and Opinions	iv
Site Description and Use.....	iv
Historical Information	iv
Records Review.....	iv
Site Reconnaissance	iv
Adjoining Properties	v
Conclusions.....	v
Recommendations	v
1.0 INTRODUCTION	1
1.1 Site Description	1
1.2 Scope of Services	1
1.3 Standard of Care	2
1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps.....	2
1.5 Reliance	3
1.6 Client Provided Information	4
2.0 PHYSICAL SETTING	4
3.0 HISTORICAL USE INFORMATION.....	6
3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps.....	6
3.2 Historical City Directories	7
3.3 Site Ownership.....	7
3.4 Title Search	7
3.5 Environmental Liens and Activity and Use Limitations	8
3.6 Interviews Regarding Current and Historical Site Uses	8
3.7 Prior Report Review.....	8
4.0 RECORDS REVIEW	8
4.1 Federal and State/Tribal Databases	9
4.2 Local Agency Inquiries.....	11

5.0	SITE RECONNAISSANCE	12
5.1	General Site Information	12
5.2	Overview of Current Site Occupants.....	12
5.3	Overview of Current Site Operations	12
5.4	Site Observations	13
6.0	ADJOINING PROPERTY RECONNAISSANCE	15
7.0	ADDITIONAL SERVICES	15
8.0	DECLARATION.....	15

APPENDICES

APPENDIX A Exhibit 1: Topographic Map, Exhibit 2: Site Diagram

APPENDIX B Site Photographs

APPENDIX C Historical Documentation and User Questionnaire

APPENDIX D Environmental Database Information

APPENDIX E Credentials

APPENDIX F Description of Terms and Acronyms

EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our Proposal PEQ237180, dated April 27, 2023, and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of Kyle E. Hayes, Environmental Professional. Darryl Williams conducted the site reconnaissance on June 8, 2023.

Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

According to the concept plans provided by the client, the site consists of wooded, undeveloped land. The site area encompasses 0.59-acres of land identified by the Glynn County Property Appraiser as Parcel ID: 03-28132, which is located at 118 Cherokee Trail, Brunswick, Glynn County, Georgia.

Historical Information

Based on a review of available historical information, the site appeared to be undeveloped wooded wetlands from at least 1921 until approximately 2021, the amount of overgrowth varies throughout as evidence of planted pine was noted as early as 1993.

The adjoining areas around the site have been undeveloped wooded and wetlands from as early as 1921 to approximately 1968 when roads to the far west and far north were developed in the surrounding area, and by 1974 the eastern adjacent property was developed with Interstate 95 (I-95). The remaining surrounding area remained as wooded/silviculture land through present day.

Records Review

Applicable federal and state/tribal environmental regulatory databases were reviewed for the site and surrounding properties within the specified search distances outlined in ASTM E1527-21, as well as responses from state and local regulatory agency inquiries. The site was not listed in the environmental database. The environmental database report also did not identify facilities withing ASTM specified search distances.

Site Reconnaissance

The site area consisted of undeveloped land, pine silviculture land. There were no signs of distressed vegetation or surface waters during the site reconnaissance.

Adjoining Properties

The site is bordered by undeveloped wooded land to the north, south and west. To the east the site is bordered by undeveloped land followed by the Right of Way (ROW) and I-95.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at the site, located at located at 118 Cherokee Trail, Brunswick, Glynn County, Georgia. No recognized environmental conditions (RECs), controlled RECs (CRECs), or significant data gaps (SDGs) were identified.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs, CRECs, or SDGs in connection with the site. As such, no additional investigation is warranted at this time.

1.0 INTRODUCTION

1.1 Site Description

Site Name	Proposed Elevated Water Storage Tank
Site Location/Address	118 Cherokee Trail, Brunswick, Glynn County, Georgia
Land Area	0.59-acres
Site Improvements	None
Anticipated Future Site Use	Elevated Water Storage Tank
Reason for the ESA	Site Development

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix G.

1.2 Scope of Services

This Phase I ESA was performed in accordance with our Proposal PEQ237208, dated April 27, 2023 and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as “(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.” A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

- An open records request email was sent on June 1, 2023, requesting environmental records for the site on file with the Georgia EPD and Glynn County Public Records. A response has not been received by the writing of this report. Based on other

information reviewed during the completion of this report, the absence of this information is not deemed significant.

- Topographic gradient was assumed to match the geographic gradient. This was not able to be confirmed from field observations. This data gap is not deemed significant.

An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Brunswick-Glynn County GA Joint Water & Sewer Commission. Use or reliance by any other party is prohibited without the written authorization of Brunswick-Glynn County GA Joint Water & Sewer Commission and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally

prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, William Kline, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.			X
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.			X
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.			X
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			X
Obvious Indicators of Releases at the site.			X

Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 29.03 feet above sea level	USGS Topographic Map, Darien, Georgia, 2020 (Appendix A)
Topographic Gradient	North northwest	
Closest Surface Water	Freshwater pond approximately 1,500-feet south.	
Soil Characteristics		
Soil Type	Po – pottsburg sand	

Physical Setting Information		Source
Description	Pamlico shoreline complex – The Pottsburg component makes up 95 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats, coastal plains. The parent material consists of marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 33 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.	ERIS Physical Setting Report, issued 2023
Geology/Hydrogeology		
Formation	Qpmi- Pamlico shoreline complex	ERIS Physical Setting Report, issued 2023
Description	Pamlico shoreline complex - barrier island facies, Pleistocene, beach sand	
Estimated Depth to First Occurrence of Groundwater	32- feet BGS	Terracon Geotechnical Engineering Report – I-95 GDOT Issued February 23, 2013
*Hydrogeologic Gradient	north northwest	Assumed to follow topographic gradient

** The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.*

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps and selected historical aerial photographs (at approximately 10-to-15-year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from ERIS to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

- Topographic maps: Darien, Georgia, published in **1921, 1956, 1979, 1995, 2014, 2017 and 2020** (1: 2,000)
- Aerial photograph: Army Mapping Service (AMS), published in **1956** (1:500)
- Aerial Photograph: United State Air Force (USAF), published in **1968** (1:500)
- Aerial photographs: United States Geological Survey (USGS), published in **1951, 1974, 1983, 1988, 1993 and 1999** (1:500)
- Aerial photographs: United States Department of Agriculture (USDA), published in **2005, 2006, 2007, 2009, 2010, 2013, 2015, 2017, 2019, and 2021** (1:500)
- Sanborn Fire Insurance Map(s): **Not available**

Historical Maps and Aerial Photographs

Direction	Description
Site	Undeveloped wetlands and wooded land/silviculture land (1921-2021)
North	Undeveloped wooded and wetlands (1921-1967); roadways and trail development in general area, while still remaining predominately wooded/silviculture land (1968-2021)

Direction	Description
East	Undeveloped wooded and wetlands (1921-1973); developed with I-95 (1974-2021)
South	Undeveloped wooded and wetlands (1921-1973); trail development in general area, while still remaining predominately wooded/silviculture land (1974-2021)
West	Undeveloped wooded and wetlands (1921-1967); roadways and trail development in general area, while still remaining predominately wooded/silviculture land (1968-2021)

3.2 Historical City Directories

The Environmental Risk Information Services (ERIS) directories used in this study were made available through ERIS City Directory and Polks (selected years reviewed: 1924 to 2021) and were reviewed at approximate five-year intervals, if readily available. Street listings were not available for the site or surrounding area due to the rural setting of the site. Since these references are copyright protected, reproductions are not provided in this report. The current street address for the site was identified as 118 Cherokee Trail, Brunswick, Glynn County, Georgia.

Historical City Directories

Direction	Description
Site	No listings
North	No listings
East	No listings
South	No listings
West	No listings

3.3 Site Ownership

Based on a review of information obtained from the Glynn County Property Appraiser's records, the current site owner is Brunswick Glynn County Joint Water & Sewer Commission. Previous owners were not made available on public record.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.5 Environmental Liens and Activity and Use Limitations

The ERIS regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name / Phone #	Title	Date/Time
Angellica Rodriguez-Baz	Todd Kline / 912-717-3757	Director of Engineering	05/31/2023 / 12:00pm

Terracon interviewed Todd Kline, Director of Engineering with the Brunswick Glynn County Joint Water & Sewer Commission. According to the interview, the site was deeded to the Joint Water & Sewer Commission years ago for the purpose of the commission to utilize for future development utility needs. To his knowledge the site has never been developed and has been used for silviculture.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review.

4.0 RECORDS REVIEW

Regulatory database information was provided by ERIS, a contract information services company in a report dated Database Report Date. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Distance (miles)	Listings
CERC	Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS	0.5	0
CERL	CERCLIS Liens	Site	0
CNFR	CERCLIS - No Further Remedial Action Planned	0.5	0
EC	Federal Engineering Controls-ECs	0.5	0
ERN1	Emergency Response Notification System	Site	0
ERN2	Emergency Response Notification System	Site	0
ERNS	Emergency Response Notification System	Site	0
FBFL	The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database	0.5	0
FRS	Facility Registry Service/Facility Index	Site	0
HMIR	Hazardous Materials Information Reporting System	0.10	0
HTSC	Hist TSCA	0.10	0
IC	Federal Institutional Controls- ICs	0.5	0
IODI	EPA Report on the Status of Open Dumps on Indian Lands	0.5	0
NCDL	National Clandestine Drug Labs	Site	0
NPL	National Priority List	1	0

Database	Description	Distance (miles)	Listings
NPLD	Delisted NPL	0.5	0
NPLP	National Priority List - Proposed	1	0
ODI	Inventory of Open Dumps, June 1985	0.5	0
RCOR	RCRA CORRACTS- Corrective Action	1	0
RGEN	RCRA Generator List	0.25	0
RNGN	RCRA Non-Generators	0.25	0
RTSD	RCRA non-CORRACTS TSD Facilities	0.5	0
TRI	Toxics Release Inventory (TRI) Program	Site	0
TSCA	Toxic Substances Control Act	0.10	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
AST	Aboveground Storage Tanks	0.25	0
BFLA	Brownfield Areas	0.5	0
BFLD	Brownfield Sites	0.5	0
CS	Contaminated Sites	0.5	0
DCS	Delisted Contaminated Sites	0.5	0
DDRC	Delisted Dry Cleaning Facilities	0.25	0
DLST	Delisted Leaking Tanks	0.5	0
DRYC	Dry Cleaning Facilities	0.25	0
DST	Delisted AST UST Storage Tanks	0.25	0
DTNK	Delisted Storage Tanks	0.25	0
ENG	Engineering Controls	0.5	0
FFTA	Federal Facilities Listing	0.25	0
ILST	Leaking Underground Storage Tanks (LUSTs) on Indian Land	0.5	0
INST	Institutional Controls Registry	0.5	0
IUST	Underground Storage Tanks (USTs) on Indian Lands	0.25	0

Database	Description	Distance (miles)	Listings
LST	Leaking Tanks	0.5	0
PRL	Priority Ranking List	0.5	0
SHWS	Florida's State-Funded Action Sites	1	0
SPL	Oil and Hazardous Materials Incidents	0.10	0
STCS	Storage Tank/Contaminated Facility Search	0.5	0
SWF	Solid Waste Facilities and Landfills	0.5	0
TANK	Storage Tank Facilities	0.25	0
UIC	Underground Injection Control Wells	Site	0
UST	Underground Storage Tanks	0.25	0
VCP	Voluntary Cleanup Sites	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report in Appendix D.

Regulated facilities were not listed within the specified search distances from the site. Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report did not list any facilities in the unmapped section and is included in the database report in Appendix D.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Georgia Environmental Protection Division Open Records Request (GORA) / GORArequest.Land@dnr.ga.gov	An open records request email was sent on June 1, 2023, requesting environmental records for the site on file with the Georgia EPD. At the issuance of this report no response has been received.
Glynn County Development & Planning Dept. sculbreath@glynncounty-ga.gov	An open records request email was sent on June 1, 2023, requesting environmental records for the site on file with Glynn County. On June 1, 2023. Mr. Stacy Culbreath, Asst. Glynn County Engineer, responded that no records of environmental history were on file for the site.

Agency Contacted/ Contact Method	Response
Glynn County Public Records Request / clerkofsuperior@glynncounty-ga.gov	An open records request email was sent on June 1, 2023, requesting environmental records for the site on file with Glynn County. At the issuance of this report no response has been received.

An open records request email was sent on June 1, 2023, requesting environmental records for the site on file with the Georgia EPD and Glynn County Public Records. A response has not been received by the writing of this report. Based on other information reviewed during the completion of this report, the absence of this information is not deemed significant.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Darryl Williams
Reconnaissance Date	June 8, 2023
Weather Conditions	84° F and Overcast
Site Contact/Title	William Kline / Site Contact

5.2 Overview of Current Site Occupants

During the Terracon site reconnaissance, the site was observed to be unoccupied.

5.3 Overview of Current Site Operations

The site currently had no operations and was undeveloped and wooded.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels, and/or containers ≥ 5 gallons	
	MSDS or SDS	
Underground Chemical or Waste	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	

Category	Item or Feature	Observed or Identified
Storage, Drainage or Collection Systems	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	
	Interior floor drains	
Electrical Transformers/PCBs	Transformers and/or capacitors	
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
Other Notable Site Features	Exterior pipe discharges and/or other effluent discharges	
	Surface water bodies	
	Quarries or pits	
	Wastewater lagoons	
	Wells	

None of the above features were observed during the Terracon site reconnaissance.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	Undeveloped land
East	ROW followed by I-95
South	Undeveloped land
West	Undeveloped land

RECs associated with the site originating from off-site locations were not identified.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal no additional services were conducted.

8.0 DECLARATION

I, Kyle E. Hayes, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All-Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Kyle E. Hayes

Environmental Department Manager

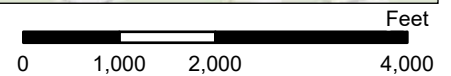
APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM



 Site Boundary



DATA SOURCES:
USGS - Topographic Survey, Darien Quadrangle; ESRI
- USGS Topographic Basemap & World Navigation Map

Project No.:
EQ237180
Date:
May 2023
Drawn By:
CBM
Reviewed By:
AKRB



8001 Baymeadows Way, Ste 1 Jacksonville, FL 32256
PH. (904) 900-6494 terracon.com

Topographic Vicinity Map

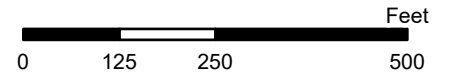
Phase I Environmental Site Assessment
Proposed Elevated Water Storage Tank
118 Cherokee Trail
Brunswick, Glynn County, GA 31525

Exhibit

1



Site Boundary



DATA SOURCES:
ESRI - World Imagery Hybrid Basemap & World Navigation Map

Project No.:	EQ237180
Date:	May 2023
Drawn By:	CBM
Reviewed By:	AKRB

8001 Baymeadows Way, Ste 1 Jacksonville, FL 32256

PH. (904) 900-6494 terracon.com

Site Diagram
<p>Phase I Environmental Site Assessment Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Glynn County, GA 31525</p>

Exhibit
2

APPENDIX B
SITE PHOTOGRAPHS



Photo 1 View looking south.



Photo 2 View looking west.



Photo 3 View looking north.



Photo 4 View looking east.



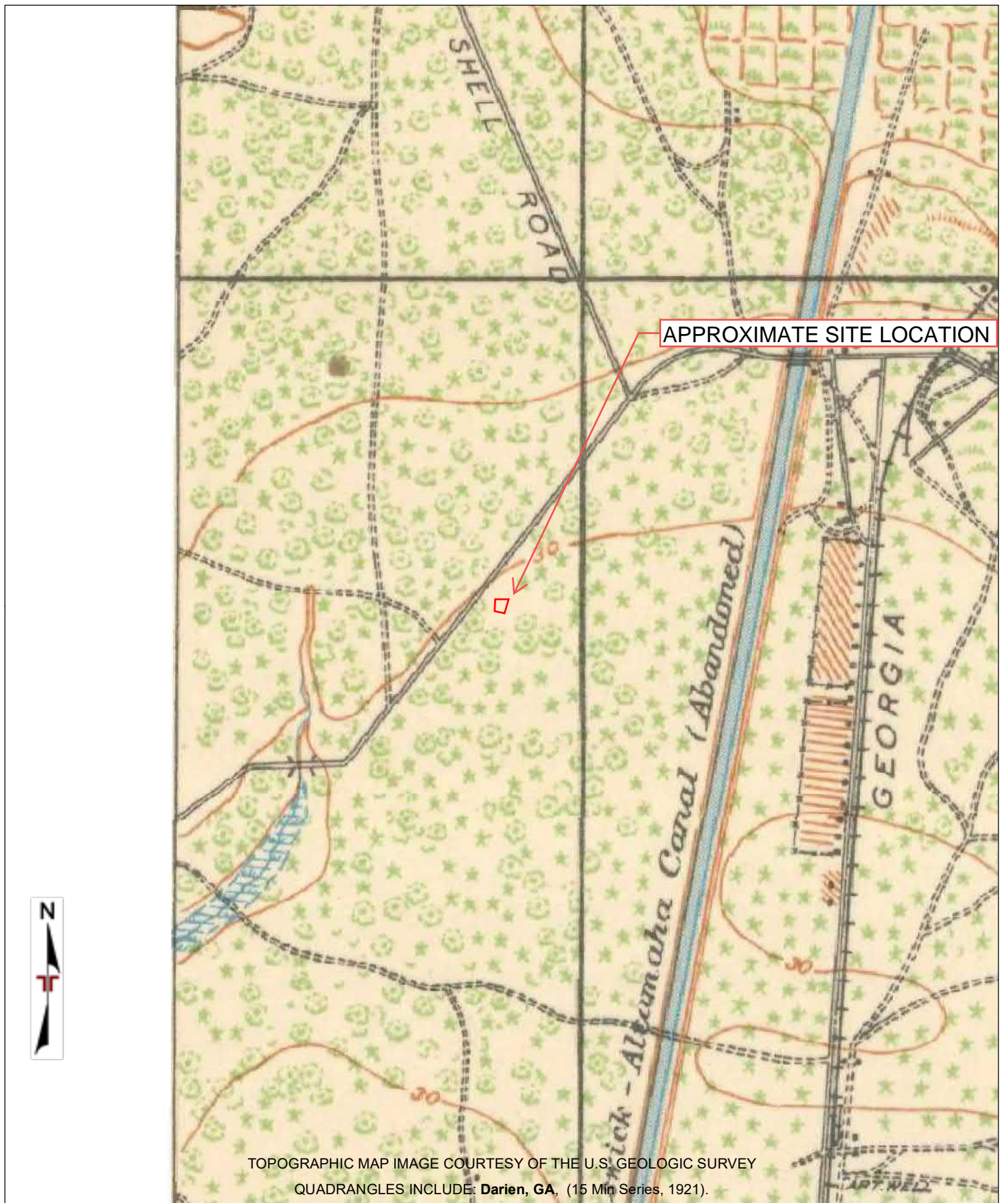
Photo 5 Sewer manhole near northeast corner of site.




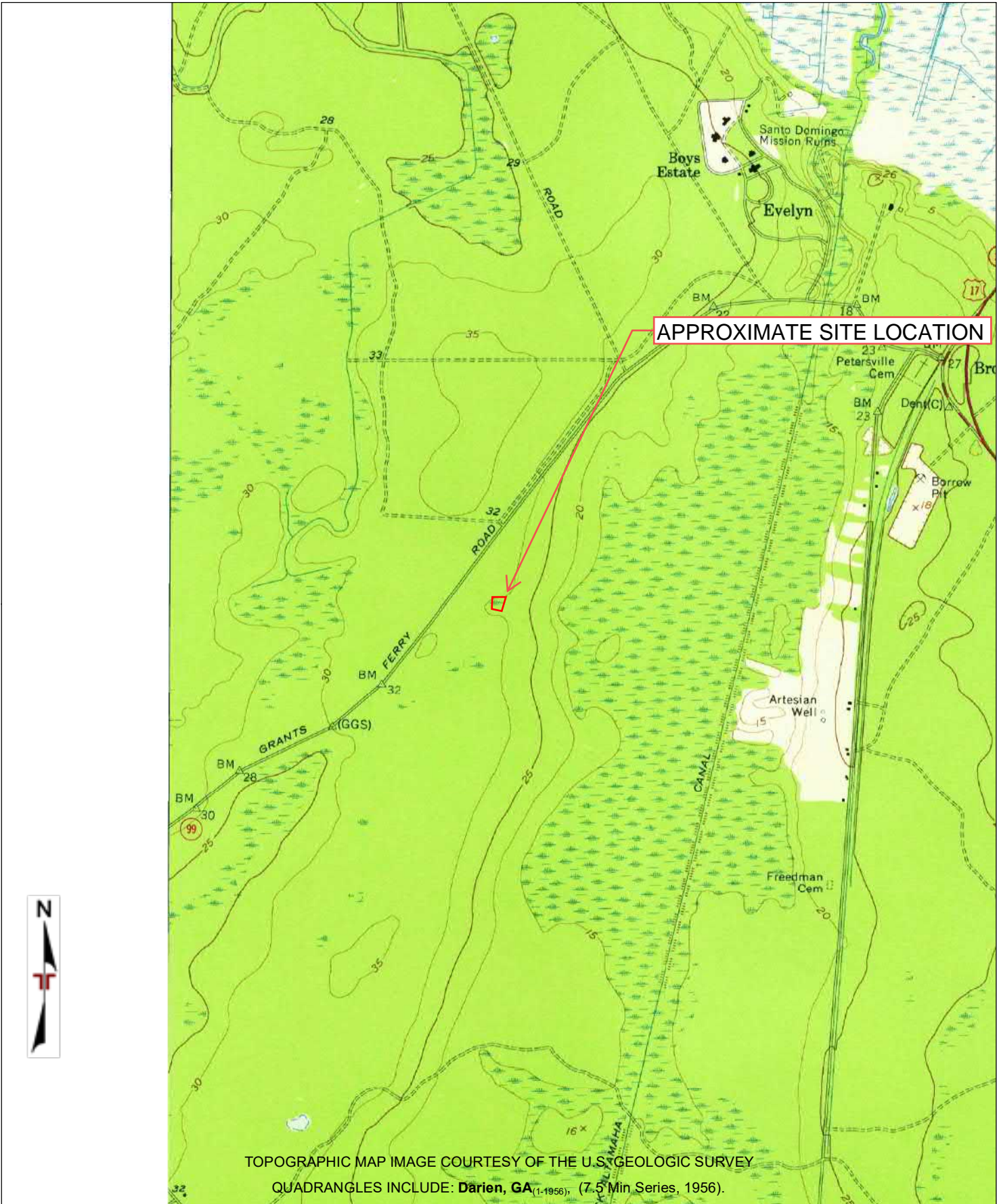
Photo 6 Billboard signage near northeast corner of site.

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE



Project Manager: AKRB	Project No: EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	TOPOGRAPHIC MAP (1921)	Appendix
Drawn By: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia	C
Checked By: AKRB	File Name: 23052400420			
Approved By: KH	Date: 2023-05-25			



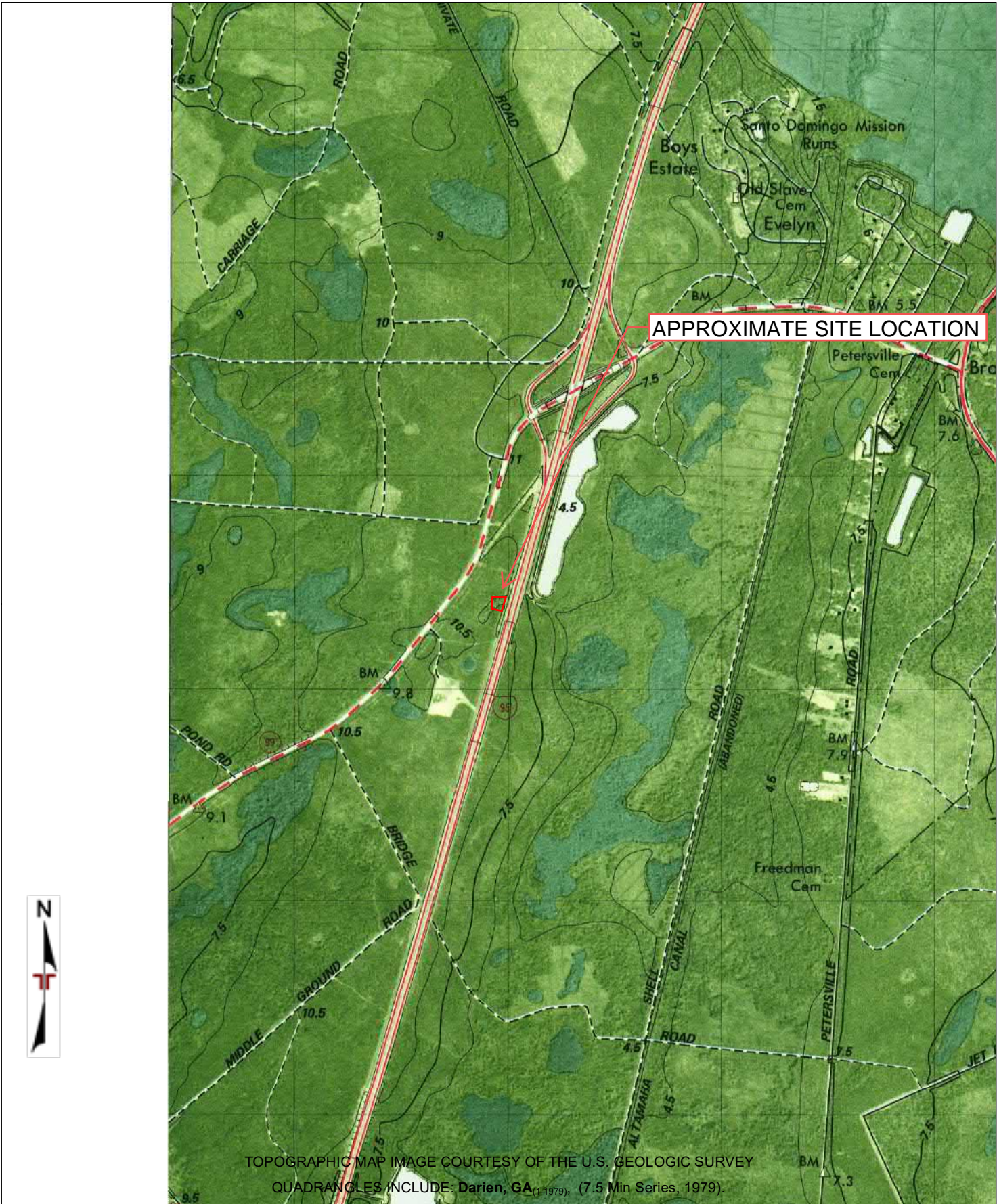
Project Manager:	Project No:
AKRB	EQ237180
Drawn By:	Scale:
ERIS	1" = 500'
Checked By:	File Name:
AKRB	23052400420
Approved By:	Date:
KH	2023-05-25



8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

TOPOGRAPHIC MAP (1956)
Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia

Appendix
C

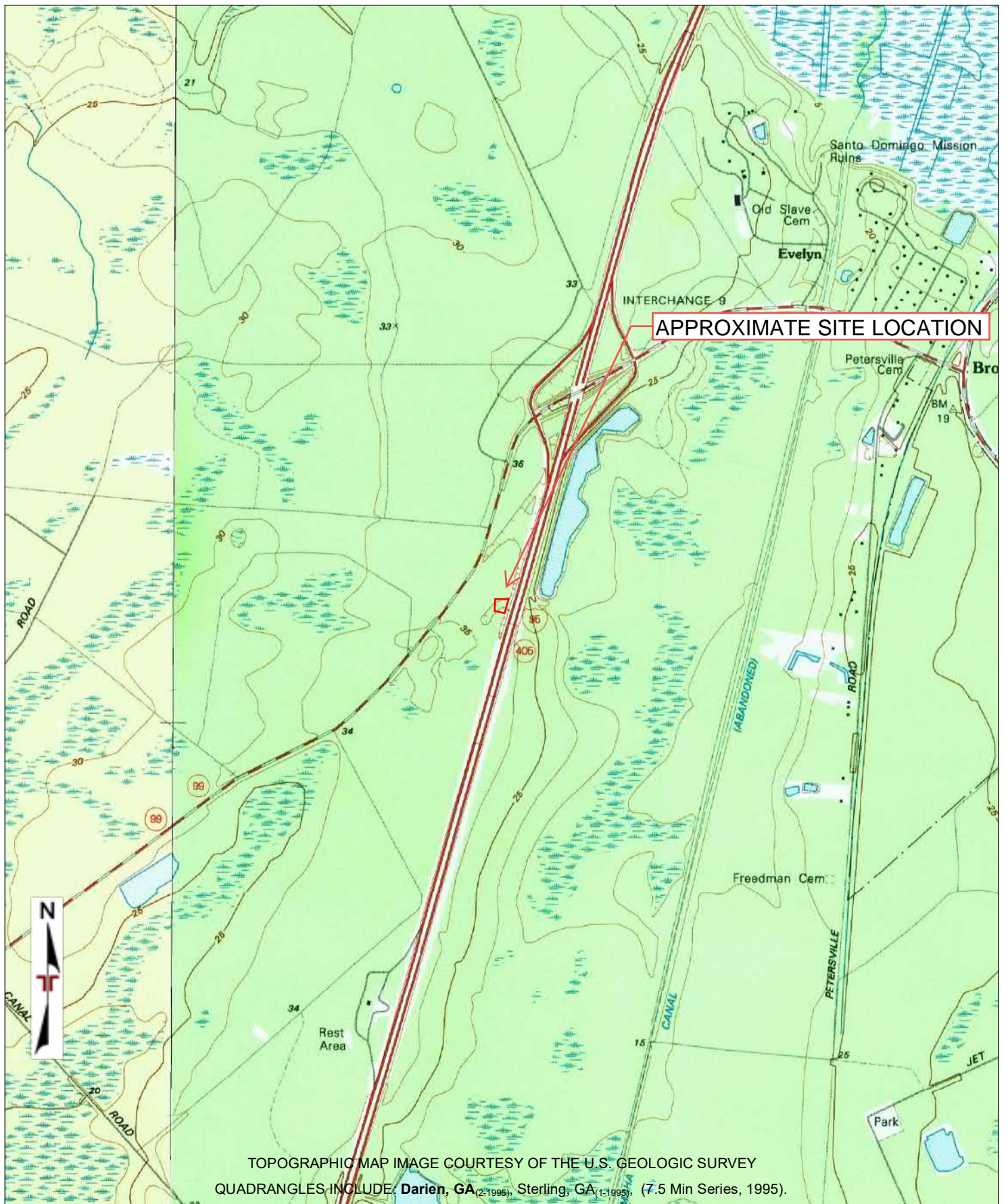



Project Manager:	Project No:
AKRB	EQ237180
Drawn By:	Scale:
ERIS	1" = 500'
Checked By:	File Name:
AKRB	23052400420
Approved By:	Date:
KH	2023-05-25

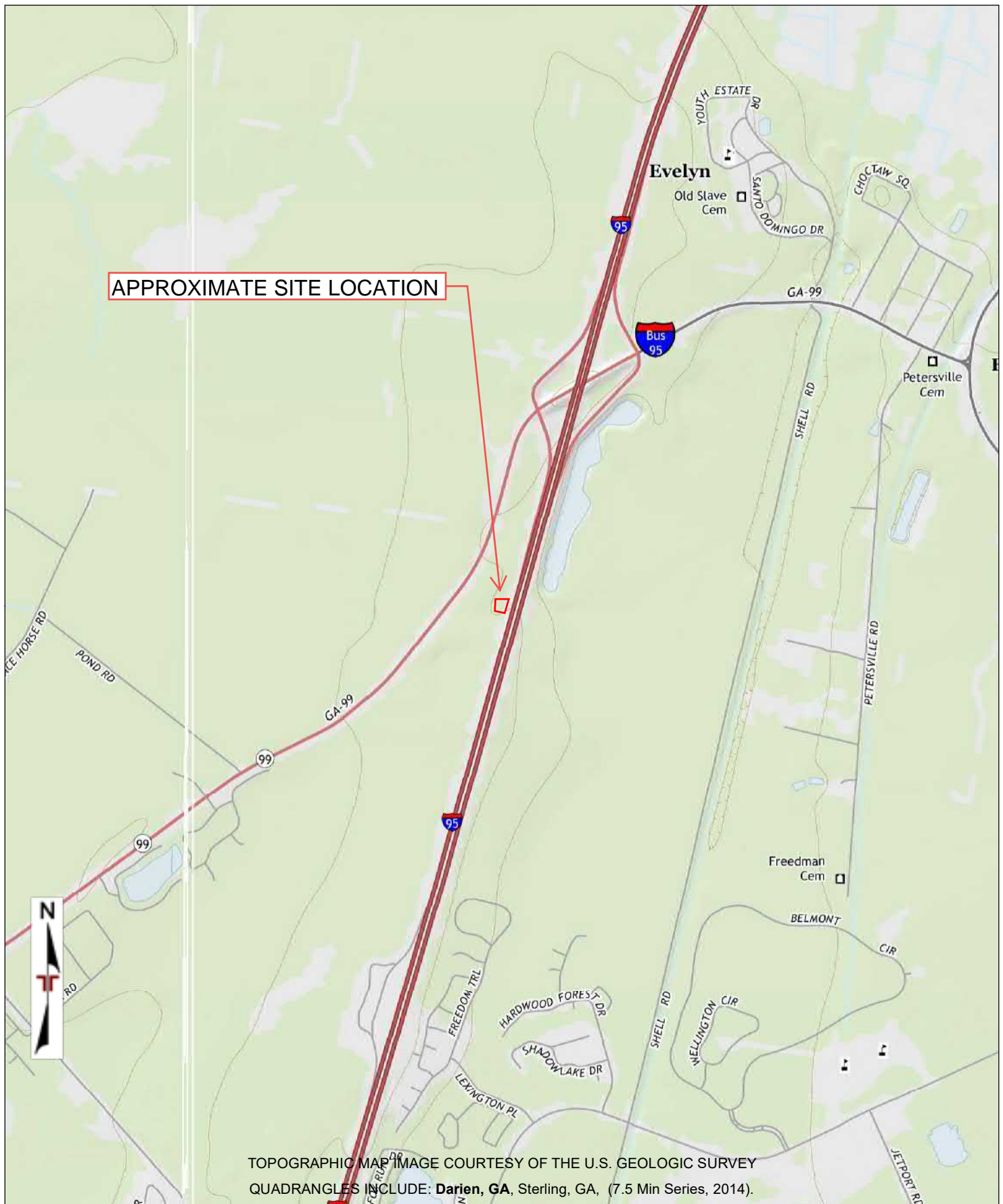


8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

TOPOGRAPHIC MAP (1979)	Appendix
Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia	C



Project Manager: AKRB	Project No: EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	TOPOGRAPHIC MAP (1995)	Appendix
Drawn By: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia	C
Checked By: AKRB	File Name: 23052400420			
Approved By: KH	Date: 2023-05-25			

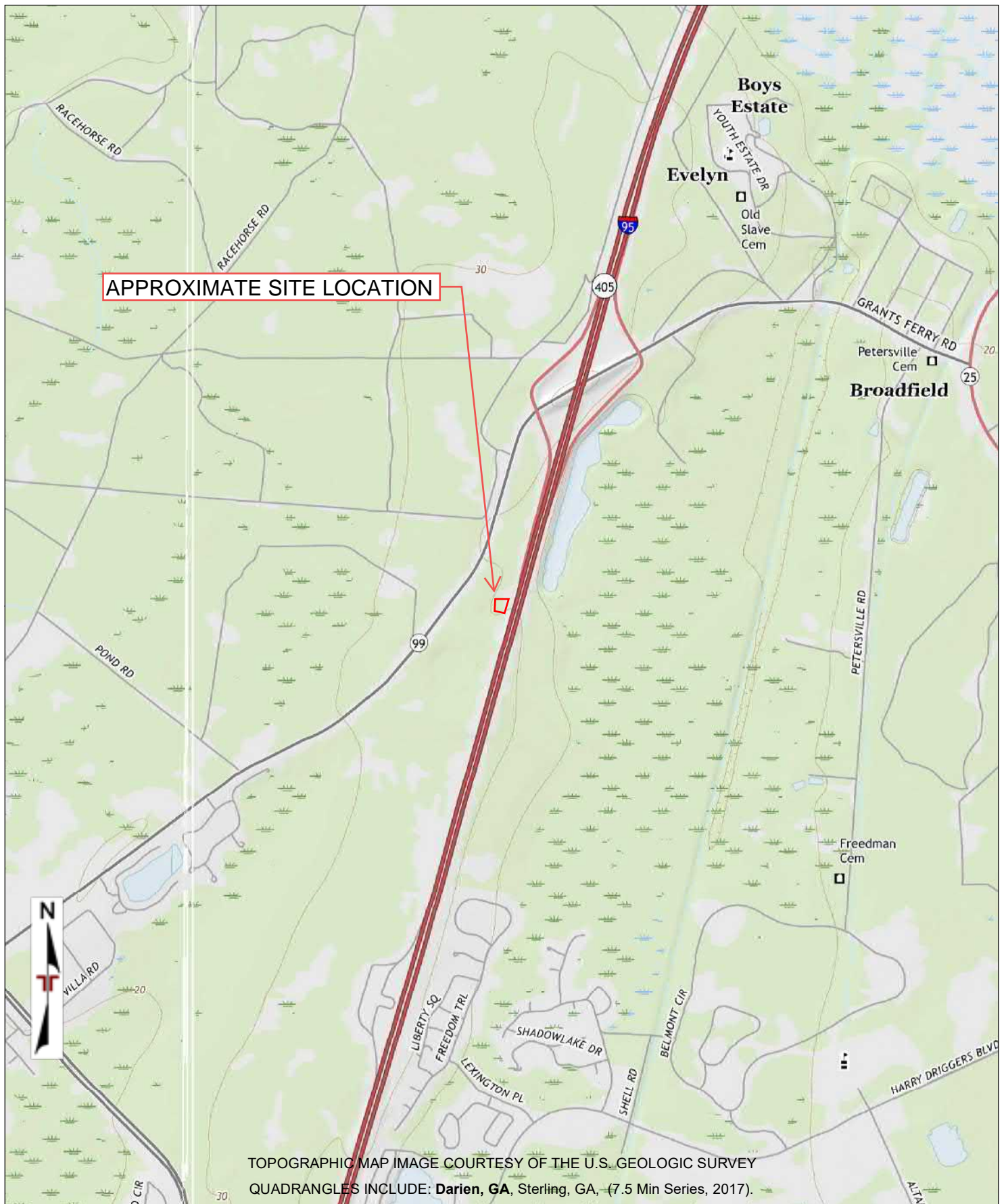


Project Manager:	Project No:
AKRB	EQ237180
Drawn By:	Scale:
ERIS	1" = 500'
Checked By:	File Name:
AKRB	23052400420
Approved By:	Date:
KH	2023-05-25



8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

TOPOGRAPHIC MAP (2014)	Appendix
Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia	C



Project Manager:	Project No:
AKRB	EQ237180
Drawn By:	Scale:
ERIS	1" = 500'
Checked By:	File Name:
AKRB	23052400420
Approved By:	Date:
KH	2023-05-25



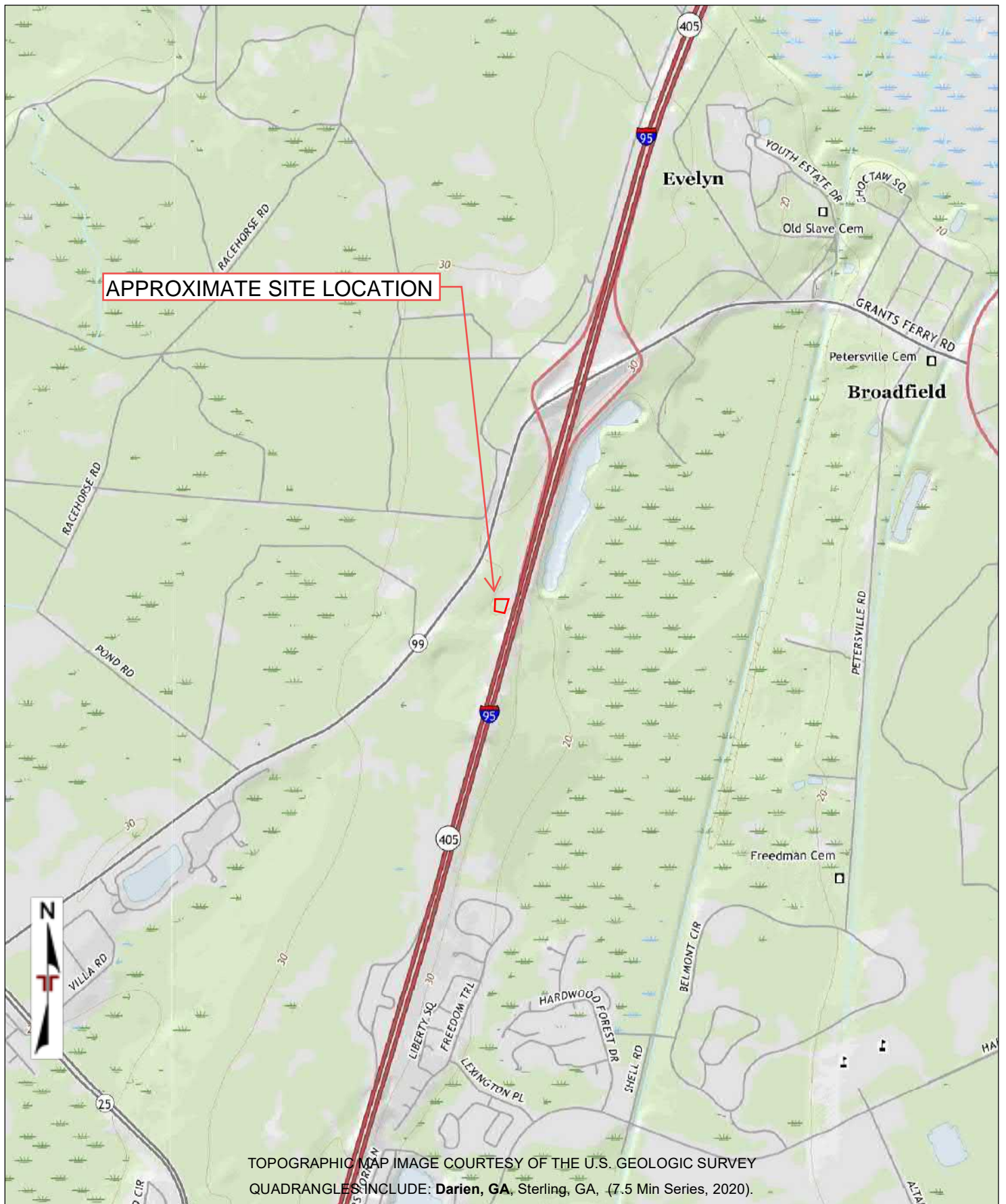
8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

TOPOGRAPHIC MAP (2017)

Proposed Elevated Water Storage Tank
118 Cherokee Trail
Brunswick, Georgia

Appendix

C



Project Manager:	Project No:
AKRB	EQ237180
Drawn By:	Scale:
ERIS	1" = 500'
Checked By:	File Name:
AKRB	23052400420
Approved By:	Date:
KH	2023-05-25


Terracon

8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

TOPOGRAPHIC MAP (2020)	Appendix
Proposed Elevated Water Storage Tank	
118 Cherokee Trail Brunswick, Georgia	C


APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1951 - USGS)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			


APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1956 - AMS)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia	C
Checked by: AKRB	File Name: 23052400420			
Approved by: KH	Date: 2023-05-25			


APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1968 - USAF)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			

APPROXIMATE SITE LOCATION




Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1974 - USGS)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia	C
Checked by: AKRB	File Name: 23052400420			
Approved by: KH	Date: 2023-05-25			



APPROXIMATE SITE LOCATION




Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1983 - USGS)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			



APPROXIMATE SITE LOCATION




Project Manager: AKRB		Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1988 - USGS)		Appendix
Drawn by: ERIS		Scale: 1" = 500'		Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia		C
Checked by: AKRB		File Name: 23052400420				
Approved by: KH		Date: 2023-05-25				




APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1993 - USGS)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			


APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (1999 - USGS)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			

APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2005 - USDA)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			

APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180
Drawn by: ERIS	Scale: 1" = 500'
Checked by: AKRB	File Name: 23052400420
Approved by: KH	Date: 2023-05-25



8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

AERIAL PHOTO (2006 - USDA)


Proposed Elevated Water Storage Tank
118 Cherokee Trail
Brunswick, Georgia

Appendix

C


APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2007 - USDA)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			


APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2009 - USDA)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			

APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2010 - USDA)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			

APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180
Drawn by: ERIS	Scale: 1" = 500'
Checked by: AKRB	File Name: 23052400420
Approved by: KH	Date: 2023-05-25



8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

AERIAL PHOTO (2013 - USDA)

Proposed Elevated Water Storage Tank
118 Cherokee Trail
Brunswick, Georgia

Appendix

C

APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180
Drawn by: ERIS	Scale: 1" = 500'
Checked by: AKRB	File Name: 23052400420
Approved by: KH	Date: 2023-05-25



8001 Baymeadows Way, Suite 1
Jacksonville, Florida 32256

AERIAL PHOTO (2015 - USDA)


Proposed Elevated Water Storage Tank
118 Cherokee Trail
Brunswick, Georgia

Appendix

C

APPROXIMATE SITE LOCATION




Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2017 - USDA)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			




APPROXIMATE SITE LOCATION



Project Manager: AKRB		Project No. EQ237180		 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2019 - USDA)		Appendix
Drawn by: ERIS		Scale: 1" = 500'			Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick, Georgia		C
Checked by: AKRB		File Name: 23052400420					
Approved by: KH		Date: 2023-05-25					

APPROXIMATE SITE LOCATION



Project Manager: AKRB	Project No. EQ237180	 8001 Baymeadows Way, Suite 1 Jacksonville, Florida 32256	AERIAL PHOTO (2021 - USDA)	Appendix
Drawn by: ERIS	Scale: 1" = 500'		Proposed Elevated Water Storage Tank	C
Checked by: AKRB	File Name: 23052400420		118 Cherokee Trail Brunswick, Georgia	
Approved by: KH	Date: 2023-05-25			



FIRE INSURANCE MAPS

Project Property:	Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick GA
Project No:	EQ237180
Requested By:	Terracon
Order No:	23052400420
Date Completed:	May 24, 2023

Please note that no information was found for your site or adjacent properties.

ASTM E1527-21 User Questionnaire



Date Completed	31 MAY 2023		
Person Completing Questionnaire	Name: WILLIAM KLINE Company: BRUNSWICK GLYNN JOINT WFS COMM.	Phone: 912-261-7100 Email: wkline@bgjwsc.org	
Site Name	Undeveloped Land (Parcel ID: 03-28132)		
Site Address	118 Cherokee Trail, Brunswick, Glynn County, GA 31525		
Point of Contact for Access	Name: JASON VO Company: BGJWSC	Phone: 912-261-7100 Email: jvo@bgjwsc.org	
Access Restrictions or Special Site Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)		
Confidentiality Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)		
Current Site Owner	Name: BRUNSWICK GLYNN JOINT WFS Company: COMM.	Phone: 912-261-7100 Email:	
Current Site Operator	Name: BRUNSWICK GLYNN JOINT WFS Company: COMM.	Phone: 912-261-7100 Email:	
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	CONSTRUCTION OF A PUBLIC POTABLE ELEVATED STORAGE TANK.		
Anticipated Future Site Use	PUBLIC WATER SYSTEM ASSET.		
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents. NO OTHER DOCUMENTS IN POSSESSION.		
<p align="center">ASTM User Questionnaire</p> <p>To qualify for one of the <i>Landowner Liability Protections (LLPs)</i> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "<i>Brownfields Amendments</i>"), the user must respond to the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the <i>environmental professional</i>. Failure to conduct these inquiries could result in a determination that "<i>all appropriate inquiries</i>" is not complete.</p>			
<p>1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)</p>			
<p>2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)</p>			
<p>3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312.28)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)</p>			
<p>4) Does the purchase price being paid for this site reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not applicable (If yes or Not applicable, explain below)</p>			
<p>5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)</p>			
<p>6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)</p>			
<p>Comments or explanations:</p> <p>PARCEL WAS DECIDED TO THE JUDG OF THE GLYNN COUNTY DEVELOPMENT AUTHORITY. NO TITLE RESEARCH WAS PERFORMED OR IS IN JUDG POSSESSION.</p>			

Please return this form with the signed authorization to proceed.

Proposal No. PEQ237180

APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION



DATABASE REPORT

Project Property:	<i>Proposed Elevated Water Storage Tank 118 Cherokee Trail Brunswick GA</i>
Project No:	<i>EQ237180</i>
Report Type:	<i>Database Report</i>
Order No:	<i>23052400420</i>
Requested by:	<i>Terracon Consultants, Inc.</i>
Date Completed:	<i>May 25, 2023</i>

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	8
Executive Summary: Site Report Summary - Surrounding Properties.....	9
Executive Summary: Summary by Data Source.....	10
Map.....	11
Aerial.....	14
Topographic Map.....	15
Detail Report.....	16
Unplottable Summary.....	17
Unplottable Report.....	18
Appendix: Database Descriptions.....	25
Definitions.....	38

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Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

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Executive Summary

Property Information:

Project Property: *Proposed Elevated Water Storage Tank
118 Cherokee Trail Brunswick GA*

Project No: *EQ237180*

Coordinates:

Latitude:	<i>31.29670747</i>
Longitude:	<i>-81.48381145</i>
UTM Northing:	<i>3,462,586.32</i>
UTM Easting:	<i>453,955.80</i>
UTM Zone:	<i>UTM Zone 17R</i>

Elevation: *29 FT*

Order Information:

Order No: *23052400420*

Date Requested: *May 24, 2023*

Requested by: *Terracon Consultants, Inc.*

Report Type: *Database Report*

Historicals/Products:

Aerial Photographs	<i>Historical Aerials (with Project Boundaries)</i>
City Directory Search	<i>CD - 1 Street Search</i>
ERIS Xplorer	<i>ERIS Xplorer</i>
Excel Add-On	<i>Excel Add-On</i>
Fire Insurance Maps	<i>US Fire Insurance Maps</i>
Physical Setting Report (PSR)	<i>Physical Setting Report (PSR)</i>
Topographic Map	<i>Topographic Maps</i>
terraDOCS Report	<i>terraDOCS (Terracon)</i>

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Standard Environmental Records</u>								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
DOE FUSRAP	Y	1	0	0	0	0	0	0

State

SHWS	Y	1	0	0	0	0	0	0
DELISTED SHWS	Y	1	0	0	0	0	0	0
REMOVED HSI	Y	1	0	0	0	0	0	0
NON HSI	Y	1	0	0	0	0	0	0
HSRA NOTIF	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
LANDFILLS	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
DTNK	Y	0.25	0	0	0	-	-	0
INST	Y	0.5	0	0	0	0	-	0
AUL	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0

Tribal

INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

County

No County standard environmental record sources available for this State.

Additional Environmental Records

Federal

FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0

<i>Database</i>	<i>Searched</i>	<i>Search Radius</i>	<i>Project Property</i>	<i>Within 0.12mi</i>	<i>0.125mi to 0.25mi</i>	<i>0.25mi to 0.50mi</i>	<i>0.50mi to 1.00mi</i>	<i>Total</i>
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
SPILLS	Y	0.125	0	0	-	-	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
TIER 2	Y	0.125	0	0	-	-	-	0
Tribal	No Tribal additional environmental record sources available for this State.							
County	No County additional environmental record sources available for this State.							
Total:			0	0	0	0	0	0

* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the surrounding properties.

Executive Summary: Summary by Data Source

No records found in the selected databases for the project property or surrounding properties.

81°30'W

81°29'30"W

81°29'W

81°28'30"W

81°28'W

31°18'30"N

31°18'N

31°17'30"N

31°17'N

31°18'30"N

31°18'N

31°17'30"N

31°17'N



Map: 1.0 Mile Radius

Order Number: 23052400420

Address: 118 Cherokee Trail, Brunswick, GA



Project Property Buffer Outline

▲ Sites with Higher Elevation

■ Sites with Same Elevation

▼ Sites with Lower Elevation

○ Sites with Unknown Elevation

□ Areas with Higher Elevation

□ Areas with Same Elevation

□ Areas with Lower Elevation

□ Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

Indian Reserve Land

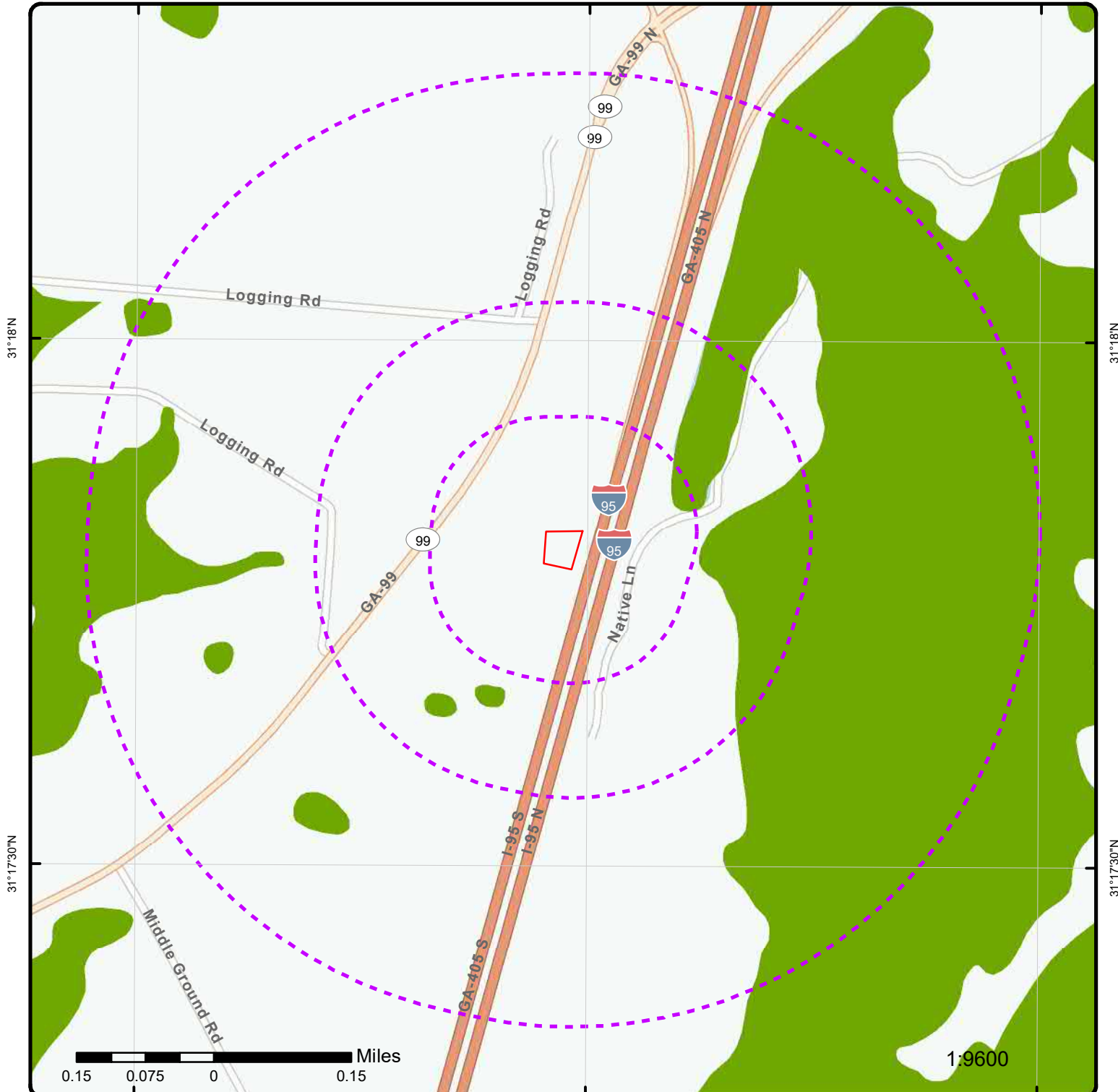
Plume

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

National Priorities List (Active, Delisted, Proposed, Institutional Control)



Map: 0.5 Mile Radius

Order Number: 23052400420

Address: 118 Cherokee Trail, Brunswick, GA



Project Property Buffer Outline

Sites with Higher Elevation

Sites with Same Elevation

Sites with Lower Elevation

Sites with Unknown Elevation

Areas with Higher Elevation

Areas with Same Elevation

Areas with Lower Elevation

Areas with Unknown Elevation

Freeways; Highways

Traffic Circle; Ramp

Major & Minor Arterial

Traffic Circle; Ramp

Local Road

Rail

State

Country

National Wetland

Indian Reserve Land

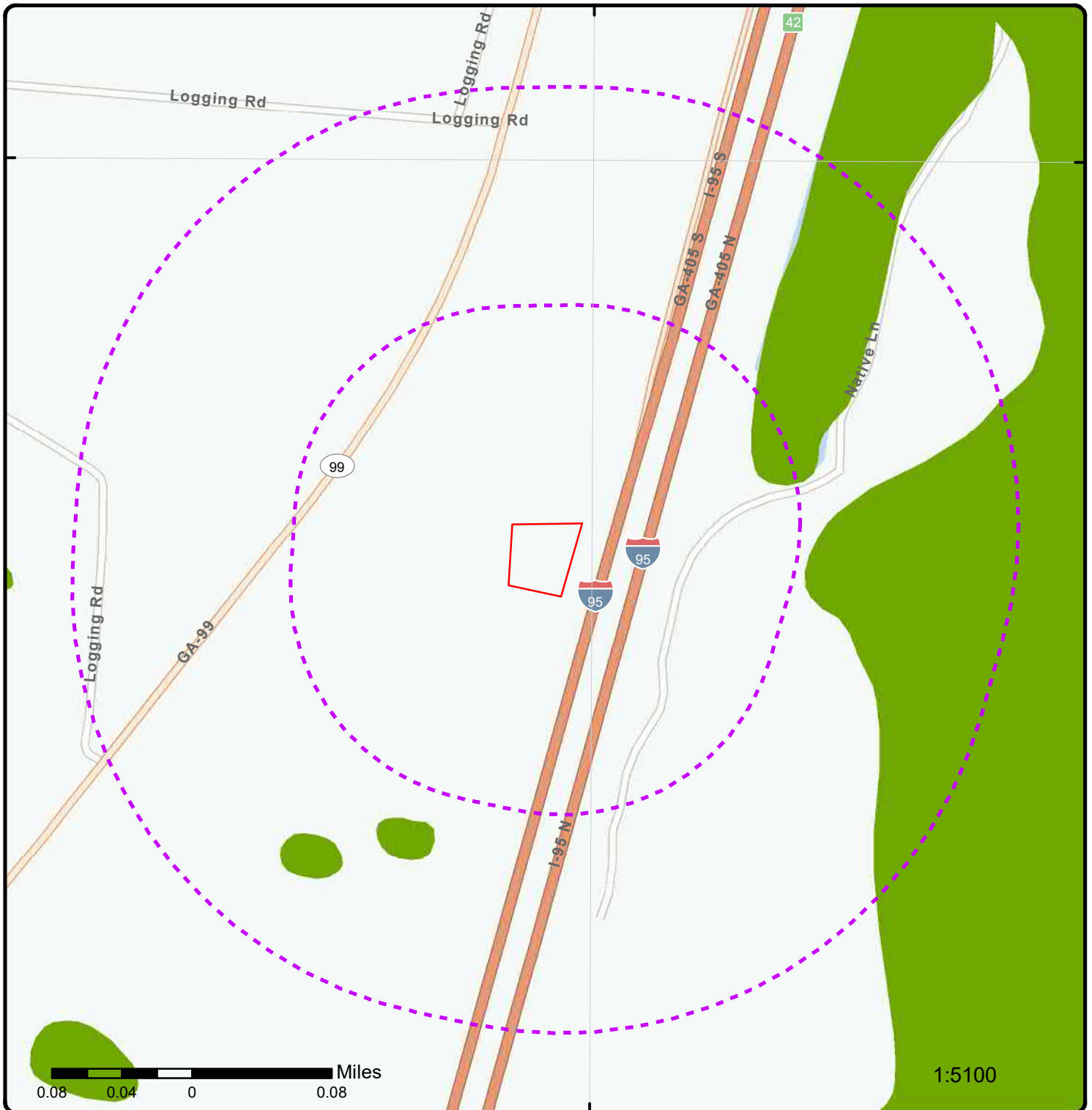
Plume

100 Year Flood Zone

500 Year Flood Zone

FWS Special Designation Areas

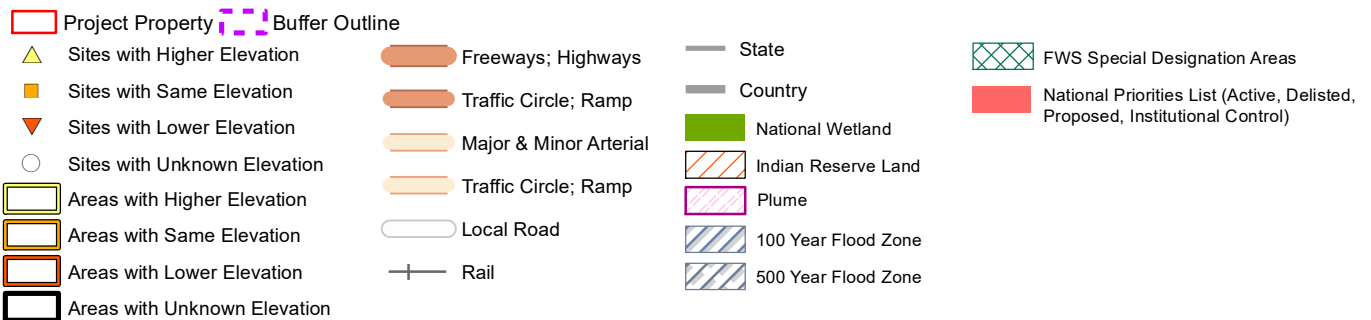
National Priorities List (Active, Delisted, Proposed, Institutional Control)



Map: 0.25 Mile Radius

Order Number: 23052400420

Address: 118 Cherokee Trail, Brunswick, GA



81°29'30"W

81°29'W

81°28'30"W

31°18'N

31°18'N

31°17'30"N

31°17'30"N



Aerial Year: 2019

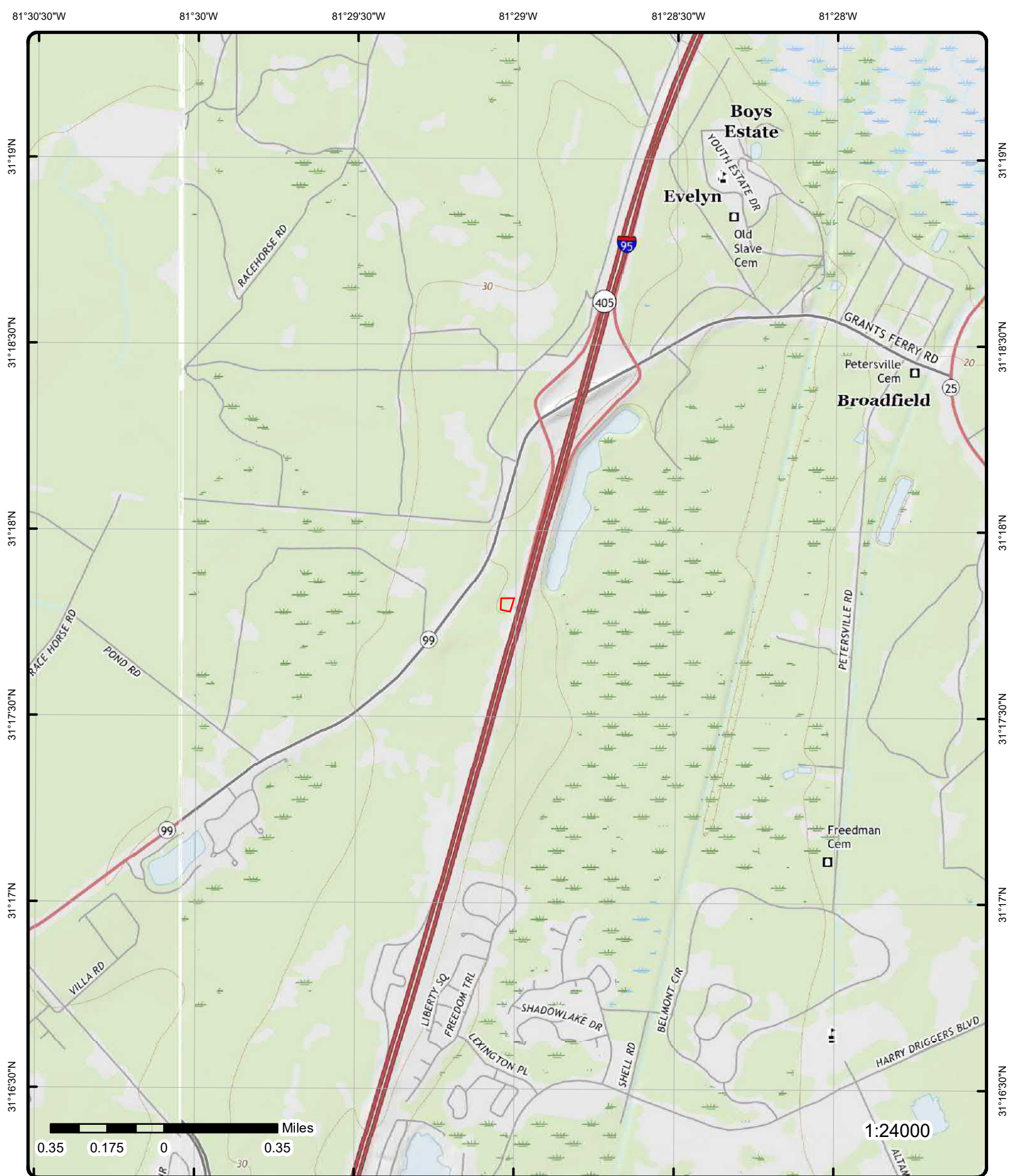
Address: 118 Cherokee Trail, Brunswick, GA

Source: ESRI World Imagery

Order Number: 23052400420



© ERIS Information Inc.



Topographic Map

Year: 2017

Order Number: 23052400420

Address: 118 Cherokee Trail, GA

Quadrangle(s): Sterling, GA; Darien, GA

Source: USGS Topographic Map



© ERIS Information Inc.

Detail Report

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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No records found in the selected databases for the project property or surrounding properties.

Unplottable Summary

Total: 5 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
ERNS		I-95, SOUTH RIVER BRIDGE (NORTHBOUND) <i>NRC Report No:</i> 329450	BRUNSWICK GA		807153604
SPILLS		I-95 South bound, on the on ramp from rest area at mile marker 40 <i>Complaint ID Source Facility ID Dt Complaint CI:</i> 88948 03/07/2019 07:50:53	Brunswick GA		875156180
SPILLS		I-95 North Bound Mile Maker 42 <i>Complaint ID Source Facility ID Dt Complaint CI:</i> 66099 12/15/2020 09:39:36	Brunswick GA		848556752
SPILLS		1/2 MILE NORTH OF EXIT 26 ON HWY. 405 (A.K.A. I-95) <i>Complaint ID Source Facility ID Dt Complaint CI:</i> 47201 07/25/2007 00:00:00	BRUNSWICK GA		818798152
SPILLS		I-95 South Bound <i>Complaint ID Source Facility ID Dt Complaint CI:</i> 68441 12/18/2017 13:49:45	GA		848562536

Unplottable Report

Site:

I-95, SOUTH RIVER BRIDGE (NORTHBOUND) BRUNSWICK GA

ERNS

NRC Report No:	329450	Latitude Degrees:	
Type of Incident:	MOBILE	Latitude Minutes:	
Incident Cause:	TRANSPORT ACCIDENT	Latitude Seconds:	
Incident Date:	3/5/1996 6:15:00 AM	Longitude Degrees:	
Incident Location:		Longitude Minutes:	
Incident Dtg:	OCCURRED	Longitude Seconds:	
Distance from City:		Lat Quad:	
Distance Units:		Long Quad:	
Direction from City:		Location Section:	
Location County:	GLYNN	Location Township:	
Potential Flag:		Location Range:	
Year:	Year 1996 Reports		
Description of Incident:	SHIFTING LOAD ON A FLATBED TRACTOR-TRAILER RIG CAUSED A PALLETTE TO FALL OFF THE RIG / 20 ONE-GAL CONTAINERS RUPTURED		

Material Spill Information

Chris Code:	HCL	Unit of Measure:	GALLON(S)
CAS No:		If Reached Water:	YES
UN No:		Amount in Water:	0
Name of Material:	HYDROCHLORIC ACID	Unit Reach Water:	NONE
Amount of Material:	20		

Calls Information

Date Time Received:	3/5/1996 7:21:00 AM	Responsible City:	BRUNSWICK
Date Time Complete:	3/5/1996 7:32:01 AM	Responsible State:	GA
Call Type:	INC	Responsible Zip:	31525
Resp Company:	ALLIED UNIVERSAL CORP.	Source:	UNAVAILABLE
Resp Org Type:	PRIVATE ENTERPRISE		

Incident Information

Tank ID:		Building ID:	
Tank Regulated:	U	Location Area ID:	
Tank Regulated By:		Location Block ID:	
Capacity of Tank:		OCSG No:	
Capacity Tank Units:		OCSF No:	
Description of Tank:		State Lease No:	
Actual Amount:		Pier Dock No:	
Actual Amount Units:		Berth Slip No:	
Tank Above Ground:	ABOVE	Brake Failure:	N
NPDES:		Airbag Deployed:	
NPDES Compliance:	U	Transport Contain:	U
Init Contin Rel No:		Location Subdiv:	
Contin Rel Permit:		Platform Rig Name:	
Contin Release Type:		Platform Letter:	
Aircraft ID:		Allision:	N
Aircraft Runway No:		Type of Structure:	
Aircraft Spot No:		Structure Name:	
Aircraft Type:	UNKNOWN	Structure Oper:	Y
Aircraft Model:		Transit Bus Flag:	
Aircraft Fuel Cap:		Date Time Norm Serv:	
Aircraft Fuel Cap U:		Serv Disrupt Time:	
Aircraft Fuel on Brd:		Serv Disrupt Units:	
Aircraft Fuel OB U:		CR Begin Date:	

Aircraft Hanger:
Road Mile Marker:
Power Gen Facility: U
Generating Capacity:
Type of Fixed Obj: UNKNOWN
Type of Fuel:
DOT Crossing No:
DOT Regulated: U
Pipeline Type: UNKNOWN
Pipeline Abv Ground: ABOVE
Pipeline Covered: U
Exposed Underwater: U
Railroad Hotline: No
Railroad Milepost: UNKNOWN
Grade Crossing: N
Crossing Device Ty:
Ty Vehicle Involved: UNKNOWN
Device Operational: Y

CR End Date:
CR Change Date:
FBI Contact:
FBI Contact Dt Tm:
Passenger Handling:
Passenger Route: XXX
Passenger Delay: XXX
Sub Part C Test Req: XXX
Conductor Test:
Engineer Test:
Trainman Test:
Yard Foreman Test:
RCL Operator Test:
Brakeman Test:
Train Dispat Test:
Signalman Test:
Oth Employee Test:
Unknown Test:

Incident Details Information

Release Secured: U
Release Rate:
Release Rate Unit:
Release Rate Rate:
Est Duration of Rel:
Desc Remedial Act: NO ROAD CLOSURE / ALLIED UNIVERSAL
 HAZMAT TEAM O/S AND
 PERFORMINGREMOVAL ACTIONS
Fire Involved: N
Fire Extinguished: U
Any Evacuations: N
No Evacuated:
Who Evacuated:
Radius of Evacu:
Any Injuries: U
No. Injured:
No. Hospitalized:
No. Fatalities:
Any Fatalities: U
Any Damages: N
Damage Amount:
Air Corridor Closed: N
Air Corridor Desc:
Air Closure Time:
Waterway Closed: N
Waterway Desc:
Waterway Close Time:
Road Closed: N
Road Desc:
Road Closure Time:
Road Closure Units:
Closure Direction:
Major Artery: No
Track Closed: N
Track Desc:
Track Closure Time:
Track Closure Units:
Track Close Dir:
Media Interest:
Medium Desc: LAND
Addl Medium Info: ASPHALT

State Agen Report No:
State Agen on Scene:
State Agen Notified:
Fed Agency Notified:
Oth Agency Notified:
Body of Water:

Tributary of:
Near River Mile Make:
Near River Mile Mark:
Offshore: N
Weather Conditions:
Air Temperature:
Wind Direction:
Wind Speed:
Wind Speed Unit:
Water Supp Contam: U
Water Temperature:
Wave Condition:
Current Speed:
Current Direction:
Current Speed Unit:
EMPL Fatality:
Pass Fatality:
Community Impact: N
Passengers Transfer: UNK
Passenger Injuries:
Employee Injuries:
Occupant Fatality:
Sheen Size:
Sheen Size Units:
Sheen Size Length:
Sheen Size Length U:
Sheen Size Width:
Sheen Size Width U:
Sheen Color:
Dir of Sheen Travel:
Sheen Odor Desc:
Duration Unit:
Additional Info: LOCAL FIRE DEPT AND POLICE DEPT
 NOTIFIED SEPARATELY

Site:

I-95 South bound, on the on ramp from rest area at mile marker 40 Brunswick GA

SPILLS

Complaint ID: 88948
Source Facility ID:

Concern1 Code: DFS
Primary Concern: Diesel fuel spill

Pers Recd ID:		Concern1 Rules:	
Associate ID:		Concern1 OCGA:	
Login ID:		Concern2 Code:	DFS
Entry Person ID:		Secondary Concern:	Diesel fuel spill
Status:	Closed	Concern2 Rules:	
Active?:		Concern2 OCGA:	
Dt Complaint Cl:	03/07/2019 07:50:53	Source Facility Name:	Penske Leasing
Date Received:	02/28/2019 06:00:00	Source City:	Jesup
Caller Represents:	GDOT District 5	Source County:	
Owner Assign Date:	02/28/2019 06:10:31	Source State:	Georgia
Owner Accept Date:	02/28/2019 09:47:54	Source Postal Code:	31546
Investigation Date:		Source Email:	
FUI Need:		Source Street2:	
Resolved?:		Src Primary Phone:	
Refer 2:		Src Prim Ph Type:	
Ten Day Follow Up?:		Source Sec Phone:	
Caller Name:	Sonja	Src Sec Ph Type:	
Caller Middle Name:		Src Other Phone:	
Caller City:	Jesup	Src Other Ph Type:	
Caller County:		Src Contact Name:	
Caller State:	Georgia	Branch Code:	PCB-ERT
Caller Postal Code:	31546	Current Office:	Emergency Response Team
Caller Phone:		Branch Active?:	Yes
Call Primary Phone:		Prog Branch Code:	
Prim Phone Type:		Program Branch:	
Secondary Phone:		Prog Branch Active:	
Sec Phone Type:		Comp County ID:	
Caller Email:		Complaint County:	Glynn
Caller Street:	204 US Hwy 301	Current Owner:	Maddox, John
Caller Street2:		Approved Date:	
Caller Other Phone:		Date Entered:	02/28/2019 06:10:31
Call Other Ph Type:		Entered by:	Blackmon, Ne'Kilya
Program Code:		Received by:	Blackmon, Ne'Kilya
Program:		Review by:	Campbell, Jerry
Source Street:	204 US Hwy 301		
Complaint Directions:	I-95 South bound, on the on ramp from rest area at mile marker 40		
Review Comments:			
Complaint Location:	I-95 South bound, on the on ramp from rest area at mile marker 40		
Complaint Nature:			

Penske box trunk accident leaked 20-25 gallons of diesel, no waterways affected, DBI contracted is on scene for the cleanup.

Spills Details

Event ID:		Investigator:	John Maddox
Entry by ID:		Entry Date:	02/28/2019 11:24:13
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Initial Investigation
Event Date:	02/28/2019 00:00:00	Entered by:	Maddox, John
Comments:			

At 8:17 I contacted the reporting party GDOT. GROT rep stated that spill was to pavement only with no soil or waterway impacts. Oil dry was applied by towing company deanglo brothers (DBI). She provided DOT # of rental truck and the phone number for tow company.

8:27 I called DBI and left a voice mail requesting a return call.

11:07 I called DBI back and spoke with Tiffany who confirmed that oil dry was applied and will provide additional information once she talks with project foreman.

At 11:41 I received photographs from Tiffany showing absorbent pellets in emergency lane of highway.

16:56, I spoke with GDOT Lacy who said she would deploy DOT crew to recover spent absorbent from scene.

Recommend report be closed with no further EPD-ERT actions at this time.

Site:

I-95 North Bound Mile Marker 42 Brunswick GA

SPILLS

Complaint ID:	66099	Concern1 Code:	DFS
Source Facility ID:		Primary Concern:	Diesel fuel spill
Pers Recd ID:		Concern1 Rules:	
Associate ID:		Concern1 OCGA:	
Login ID:		Concern2 Code:	
Entry Person ID:		Secondary Concern:	
Status:	Closed	Concern2 Rules:	
Active?:		Concern2 OCGA:	
Dt Complaint Cl:	12/15/2020 09:39:36	Source Facility Name:	Swift Transportation
Date Received:	08/09/2011 11:56:44	Source City:	
Caller Represents:	Cura Emergency Services	Source County:	
Owner Assign Date:	08/09/2011 00:00:00	Source State:	Georgia
Owner Accept Date:	08/09/2011 00:00:00	Source Postal Code:	
Investigation Date:		Source Email:	
FUI Need:		Source Street2:	
Resolved?:		Src Primary Phone:	
Refer 2:		Src Prim Ph Type:	
Ten Day Follow Up?:		Source Sec Phone:	
Caller Name:	Chris Valentine	Src Sec Ph Type:	
Caller Middle Name:		Src Other Phone:	
Caller City:		Src Other Ph Type:	
Caller County:		Src Contact Name:	Dan Coberly
Caller State:	Georgia	Branch Code:	LPB
Caller Postal Code:		Current Office:	Land Protection Branch
Caller Phone:		Branch Active?:	Yes
Call Primary Phone:		Prog Branch Code:	
Prim Phone Type:		Program Branch:	
Secondary Phone:		Prog Branch Active:	
Sec Phone Type:		Comp County ID:	
Caller Email:		Complaint County:	Glynn
Caller Street:		Current Owner:	Badru, Abiola
Caller Street2:		Approved Date:	
Caller Other Phone:		Date Entered:	08/09/2011 12:07:21
Call Other Ph Type:		Entered by:	Dalton, Ijanna
Program Code:		Received by:	Dalton, Ijanna
Program:		Review by:	Admin, EPD-IT
Source Street:			
Complaint Directions:			
Review Comments:	Administratively closed per request by Ashley Aspinwall		
Complaint Location:	I-95 North Bound Mile Marker 42		
Complaint Nature:			

Caller reporting a spill of diesel fuel in the amount of fifty gallons. The spill was caused by a ruptured fuel tank on a tractor trailer. The spill is contained. SWS will handle the clean up. No waterways affected.

Spills Details

Event ID:		Investigator:	Abiola Badru
Entry by ID:		Entry Date:	08/09/2011 00:00:00
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Follow-Up Investigation
Event Date:	08/09/2011 00:00:00	Entered by:	Badru, Abiola
Comments:			

1215 received briefing about the spill form Michelle Cortes
1225 called Chris Valentine (972-xxx-xxxx) and left a message on voice mail.

Event ID:		Investigator:	michelle cortes
Entry by ID:		Entry Date:	08/09/2011 00:00:00
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Initial Investigation
Event Date:	08/09/2011 00:00:00	Entered by:	Cortes, Michelle
Comments:			

1206 received page from GEMA. Was briefed by operator Ijanna Dalton.
1214 relayed report to LPB BDO, Abiola Badru.

Site:

1/2 MILE NORTH OF EXIT 26 ON HWY. 405 (A.K.A. I-95) BRUNSWICK GA

SPILLS

Complaint ID:	47201	Concern1 Code:	DFS
Source Facility ID:		Primary Concern:	Diesel fuel spill
Pers Recd ID:		Concern1 Rules:	
Associate ID:		Concern1 OCGA:	
Login ID:		Concern2 Code:	
Entry Person ID:		Secondary Concern:	
Status:	Closed	Concern2 Rules:	
Active?:		Concern2 OCGA:	
Dt Complaint Cl:	07/25/2007 00:00:00	Source Facility Name:	ANDERSON COLUMBIA
Date Received:	07/08/2007 14:31:00	Source City:	LAKE CITY
Caller Represents:	GSP BRUNSWICK	Source County:	
Owner Assign Date:	07/08/2007 00:00:00	Source State:	Georgia
Owner Accept Date:	07/08/2007 00:00:00	Source Postal Code:	32056-1829
Investigation Date:		Source Email:	
FUI Need:		Source Street2:	
Resolved?:		Src Primary Phone:	
Refer 2:		Src Prim Ph Type:	
Ten Day Follow Up?:		Source Sec Phone:	
Caller Name:	OPERATOR STRICKLAND	Src Sec Ph Type:	
Caller Middle Name:		Src Other Phone:	
Caller City:	BRUNSWICK	Src Other Ph Type:	
Caller County:		Src Contact Name:	DEAN GRIFFIS
Caller State:	Georgia	Branch Code:	PCB-ERT
Caller Postal Code:		Current Office:	Emergency Response Team
Caller Phone:		Branch Active?:	Yes
Call Primary Phone:		Prog Branch Code:	
Prim Phone Type:		Program Branch:	
Secondary Phone:		Prog Branch Active:	
Sec Phone Type:		Comp County ID:	
Caller Email:		Complaint County:	Camden
Caller Street:		Current Owner:	Barnes, Jeff
Caller Street2:		Approved Date:	
Caller Other Phone:		Date Entered:	07/08/2007 14:31:00
Call Other Ph Type:		Entered by:	Reece, Donnie
Program Code:		Received by:	Reece, Donnie
Program:		Review by:	Andrew, Gary
Source Street:	POB 871 (NW GUERDON ST)		
Complaint Directions:			
Review Comments:			
Complaint Location:	1/2 MILE NORTH OF EXIT 26 ON HWY. 405 (A.K.A. I-95)		
Complaint Nature:			

REPORT OF AN OVERTURNED TANKER CARRYING AND LEAKING UNKNOWN AMOUNT OF DIESEL FUEL. NO WATERWAY AFFECTED AS OF YET AND CLEAN UP IS NOT IN PROGRESS. PAGED MICHELLE CORTES 16624

Spills Details

Event ID:		Investigator:	michelle cortes
Entry by ID:		Entry Date:	07/09/2007 00:00:00
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Initial Investigation
Event Date:	07/08/2007 00:00:00	Entered by:	Cortes, Michelle
Comments:			

Bat Chief Eugene Murray With Camden Co Fire Also Called In With Better Info. (Work Cell 912-xxx-xxxx, Personal Cell 912-xxx-xxxx) He Stated That It Is An Asphalt Tanker And It Is Upright. The Right Saddle Tank Is Punctured And Leaking Fuel Into A Wetland Area. He Gave Me All Of The Contact Info (Driver Is Wesley Jones And He Is Still On Site With Contact Info. Other Phone #S To Rp Is 352-xxx-xxxx, 352-xxx-xxxx) The Leak Was Stopped. Driver Knew He Had Filled 120 Gallons In Lake City So They Were Thinking 80 Gallons At The Worst Had Leaked Out. I Contacted Dean And Advised Him That He Needed To Hire A Clean-Up Contractor And Gave Him 3 Names Of Companies. He Hired Sws And The Savannah Office Will Be Responding. The Wrecker Co Showed Up And They Had Pulled The Vehicle Out. Murray Called Back To Say That They Had The Area Clearly Marked For Sws To See It. I T/W David Coates With Sws And He Was Sending A Crew Down. I Gave Him Murray'S Contact Info. David Called Back To Say That His Crew Put Out Absorbants Along A Wildlife Fence, But The Fuel Was Past The Fence. He Wanted To Get State Approval Before They Cut The Fence And They Were Not Going To Do That Until Epd Was On Site. He Was Not Sure How Aggressive He Should Get In The Marsh. It Was Dusk And His Team

Was Leaving The Site. The Tide Was Incoming And Possibly Would Push The Diesel Into The Absorbants. I Called Barnes And Asked Him To Meet Sws On Site Monday Am To Look Over The Site And See How Aggressive The Clean-Up Efforts Should Be In The Wetland Area.

Event ID:		Investigator:	jeff barnes
Entry by ID:		Entry Date:	07/19/2007 00:00:00
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Follow-Up Investigation
Event Date:	07/09/2007 00:00:00	Entered by:	Barnes, Jeff
Comments:			

Arrived On Scene About 0900, Site Was On Nb Shoulder Between Exits 26-28, 30-40 Feet Of Soil Impacted In 2' Band Down Embankment, Then About 150' Of Ditch Impacted, No Visible Sheen On Other Side Of Wildlife Fence, I Advised David Coats To Excavate Impacted Soil & To Leave Sorbs In Place For A Couple Of Days To Collect Max Amount Of Fuel From Bull Rush Covered Area Then Remove. He Agreed To Complete Renovation. Closed.

Site: **I-95 South Bound GA** **SPILLS**

Complaint ID:	68441	Concern1 Code:	HMS
Source Facility ID:		Primary Concern:	Hazardous material spill
Pers Recd ID:		Concern1 Rules:	
Associate ID:		Concern1 OCGA:	
Login ID:		Concern2 Code:	
Entry Person ID:		Secondary Concern:	
Status:	Closed	Concern2 Rules:	
Active?:		Concern2 OCGA:	
Dt Complaint Cl:	12/18/2017 13:49:45	Source Facility Name:	Evans Delivery
Date Received:	06/12/2012 09:09:40	Source City:	Savannah
Caller Represents:	Glynn County Fire Dept	Source County:	
Owner Assign Date:	06/12/2012 00:00:00	Source State:	Georgia
Owner Accept Date:	06/12/2012 00:00:00	Source Postal Code:	
Investigation Date:		Source Email:	
FUI Need:		Source Street2:	
Resolved?:		Src Primary Phone:	
Refer 2:		Src Prim Ph Type:	
Ten Day Follow Up?:		Source Sec Phone:	
Caller Name:	Captain Hugh Brown	Src Sec Ph Type:	
Caller Middle Name:		Src Other Phone:	
Caller City:		Src Other Ph Type:	
Caller County:		Src Contact Name:	Mark Jorgensen
Caller State:	Georgia	Branch Code:	PCB-ERT
Caller Postal Code:		Current Office:	Emergency Response Team
Caller Phone:		Branch Active?:	Yes
Call Primary Phone:		Prog Branch Code:	
Prim Phone Type:		Program Branch:	
Secondary Phone:		Prog Branch Active:	
Sec Phone Type:		Comp County ID:	
Caller Email:		Complaint County:	Glynn
Caller Street:		Current Owner:	Scarbary, Jacki
Caller Street2:		Approved Date:	
Caller Other Phone:		Date Entered:	06/12/2012 09:26:21
Call Other Ph Type:		Entered by:	Allen, Vickey
Program Code:		Received by:	Allen, Vickey
Program:		Review by:	Langley, Bert
Source Street:			
Complaint Directions:	Intersection of Georgia Highway 99 and off ramp, Exit 42		
Review Comments:			
Complaint Location:	I-95 South Bound		
Complaint Nature:			

Report of a spill of unknown amounts of corrosive liquid, from damaged container caused by accident of tractor trailer. Identification number on container of corrosive liquid is 3265. No waterways are known to be affected. No information is available regarding clean up. Local Fire Department, Police Department, Georgia State Patrol, and Department of Public Safety are on scene. Point of contact: Duty Deputy Chief, Captain James Williams 912-xxx-xxxx.

J R Campbell was notified @ 0926.
Ted Jackson was called and briefed @ 0934.

Spills Details

Event ID:		Investigator:	T Jackson
Entry by ID:		Entry Date:	06/12/2012 00:00:00
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Initial Investigation
Event Date:	06/12/2012 00:00:00	Entered by:	Network, Emergency Response
Comments:			

WSPB BDO T Jackson notified by GEMA: DUPLICATE COMPLAINT in Progress: CTS#68441**Report of a spill of unknown amounts of corrosive liquid (UN ID#3265), from damaged container caused by accident of tractor trailer at I-95 SB at Exit 42, Georgia Highway 99.

Name: Captain James Williams, Duty Deputy Chief

Number: 912-xxx-xxxx

County: Glynn

Confirm Receipt at 800.xxx-xxxx GEMA/Vicky 06/12/2012 0927

At 10:08 contacted Deputy Chief James Williams, Glynn County FD. Reported that situation currently stable. Contacted carrier who will be dispatching a HazMat team from SWS for entry and containment. ETA around 11:00-12:00, but unsure due to travel time from Savannah. Glynn Co. FD will be sending personnel in Level A to do an entry and perform diking to control 20 gallon loss. Ground currently saturated and waterway is nearby.

UN ID 3265 is corrosive liquid, acidic, organic, not otherwise specified.

Chief Williams later reported SWS onsite with minimal crew for clean-up.

Event ID:		Investigator:	JScarbury
Entry by ID:		Entry Date:	06/12/2012 00:00:00
Investigator ID:		Follow Up Needed?:	
Event Code:		Active?:	
Event:		Code Desc:	Follow-Up Investigation
Event Date:	06/12/2012 00:00:00	Entered by:	Scarbury, Jacki
Comments:			

2134 hrs: Spoke with SWS project manager, Kendrick Carter, (912) xxx-xxxx-cell, (912)-xxx-xxxx-office for update at site. He stated three 300 gallon totes spilled a mild acid. Six 50 gallon drums were damaged. No waterways were affected. Impact to soil only. The drums contents were removed and neutralized. The affected soil has been covered pending further analysis and excavation on Thursday.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List:

NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jan 25, 2023

National Priority List - Proposed:

PROPOSED NPL

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jan 25, 2023

Deleted NPL:

DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. 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. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: Jan 25, 2023

SEMS List 8R Active Site Inventory:

SEMS

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

Government Publication Date: Jan 25, 2023

Inventory of Open Dumps, June 1985:

ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:

SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Jan 25, 2023

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:

CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:

IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jan 23, 2023

RCRA non-CORRACTS TSD Facilities:

RCRA TSD

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA.

Government Publication Date: Jan 23, 2023

RCRA Generator List:[RCRA LQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jan 23, 2023

RCRA Small Quantity Generators List:[RCRA SQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jan 23, 2023

RCRA Very Small Quantity Generators List:[RCRA VSQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jan 23, 2023

RCRA Non-Generators:[RCRA NON GEN](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jan 23, 2023

RCRA Sites with Controls:[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Jan 23, 2023

Federal Engineering Controls-ECs:[FED ENG](#)

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Feb 23, 2023

Federal Institutional Controls- ICs:[FED INST](#)

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2020 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Feb 23, 2023

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: Jan 25, 2023

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jan 16, 2023

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Sep 13, 2022

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Aug 8, 2022

Delisted Facility Response Plans:

DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Aug 8, 2022

Historical Gas Stations:

[HIST GAS STATIONS](#)

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Aug 30, 2022

Petroleum Product and Crude Oil Rail Terminals:

[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Jun 29, 2022

LIEN on Property:

[SEMS LIEN](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Jan 25, 2023

Superfund Decision Documents:

[SUPERFUND ROD](#)

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Mar 23, 2023

Formerly Utilized Sites Remedial Action Program:

[DOE FUSRAP](#)

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State

Hazardous Site Inventory:

[SHWS](#)

The Hazardous Site Inventory (HSI) is a list of sites in Georgia where there has been a known or suspected release of a regulated substance above a reportable quantity and which have yet to show they meet state clean-up standards found in the Rules for Hazardous Site Response. The HSI is compiled and published by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources (DNR). This database is state equivalent CERCLIS.

Government Publication Date: Apr 10, 2023

Delisted Hazardous Site Inventory Listing:

[DELISTED SHWS](#)

Maintained by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources, this is a listing of sites which have, over the years, been delisted from the Georgia Hazardous Site Inventory (HSI).

Government Publication Date: Apr 10, 2023

Removed Sites Hazard Site Inventory & Delisted:

[REMOVED HSI](#)

A list of sites that have been removed from the Georgia Department of Natural Resources (DNR) Hazard Site Inventory (HSI) and the Delisted Hazard Site Inventory.

Government Publication Date: Apr 10, 2023

Hazard Evaluation Score (Non-Hazardous Site Inventory):

NON HSI

The Non HSI or Non-Hazardous Site Inventory is information taken from public sources and gathered and compiled by Rindt-McDuff Associates (RMA). Sites on this inventory were not included on the official Georgia State Hazardous Site Inventory because their Hazard Evaluation Score does not exceed the threshold levels. There is no guarantee of the accuracy of the data from RMA. This database is state equivalent CERCLIS.

Government Publication Date: Jul 31, 2014

Hazardous Site Response Notifications:

HSRA NOTIF

List of Hazardous Site Response Act (HSRA) Release Notification sites made available by the Georgia Environmental Protection Division (EPD). Under the Rules for Hazardous Site Response, Chapter 391-3-19, the HSRA requires property owners who discover the release of regulated contaminants in soil or groundwater to report to the Georgia EPD. A Release Notification is submitted by the property owner to the Response & Remediation Program (RRP); the RRP may or may not issue a Non-HSI Letter or an HSI Listing Letter based on the information gathered from the Release Notification and site visits.

Government Publication Date: Apr 10, 2023

Solid Waste Disposal Facilities:

SWF/LF

Facilities permitted by the Solid Waste Management Program in the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources. Includes solid waste collection operations, solid waste disposal facilities (including inert), solid waste transfer stations, closed and in-closure landfills, and collection and transfer stations.

Government Publication Date: Jul 21, 2021

Historic and Current Landfills through 1999:

LANDFILLS

A list of current and historic landfills made available by the Georgia Department of Natural Resources Environmental Protection Division (EPD), Geologic Survey Branch. Includes permitted, regulated landfills, others are older landfills that elected to close when it became a regulatory requirement of the state of Georgia to obtain a solid waste disposal permit.

Government Publication Date: Dec 31, 1999

Leaking Underground Storage Tanks:

LUST

A list of Leaking Underground Storage Tanks (LUSTs). The Underground Storage Tank (UST) Management Program is responsible for ensuring operational compliance and cleanup of leaks from registered UST systems.

Government Publication Date: Jan 6, 2023

Delisted Leaking Storage Tanks:

DELISTED LST

This database contains a list of leaking storage tank sites that were removed from the Underground Storage Tank (UST) Management Program.

Government Publication Date: Jan 6, 2023

Underground Storage Tanks:

UST

A list of Underground Storage Tanks including information on owner, facility and tank details. This data is collected by the Underground Storage Tank Management Program in the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources (DNR).

Government Publication Date: Jan 6, 2023

Delisted Storage Tanks:

DTNK

A list of sites which once appeared on - and have since been removed from - the list of storage tanks made available by the Underground Storage Tank Management Program in the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources (DNR).

Government Publication Date: Jan 6, 2023

Institutional Controls (Public Record List):

INST

Georgia does not have a centralized database which provides detailed information on the specific instruments used to establish institutional controls (ICs). Institutional control requirements vary depending upon the regulatory status of the property, the time period when the limitation of liability was issued, and the nature of the risk reduction certification. This list includes sites at which formal institutional controls are required: properties listed on the Hazardous Site Inventory (HSI) which are not certified to residential risk reduction standards. The IC may follow the requirements of the Rules for Hazardous Site Response, or for more recent decisions, may use environmental covenants. This public record list is maintained by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources.

Government Publication Date: Feb 27, 2023

Uniform Environmental Covenants:

AUL

List of properties subject to Uniform Environmental Covenants (UECs), made available by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources. Certain properties within Georgia have been designated as needing corrective action due to the presence of hazardous wastes, hazardous constituents, or hazardous substances regulated under state law. In some instances, UECs are implemented to protect public and environmental receptors from exposure to those substances that remain in soil and/or groundwater. This is accomplished through permanent controls and restrictions on property usage; compliance is required under Georgia's Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 et. seq., which became effective on July 1, 2008.

Government Publication Date: Mar 21, 2023

Voluntary Remediation Program:

[VCP](#)

List of Voluntary Remediation Program Applications, made available by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources. Georgia's Voluntary Remediation Program Act, created to encourage voluntary investigation and remediation of contaminated properties, became effective on June 1, 2009.

Government Publication Date: May 5, 2023

Brownfields Public Record List:

[BROWNFIELDS](#)

The Georgia Brownfields Public Record lists properties under the Hazardous Site Reuse and Redevelopment Act (Georgia's brownfields statute) which have been proposed for a response action, have response actions underway, or have completed response actions. This list is maintained by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources.

Government Publication Date: Feb 27, 2023

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

[INDIAN LUST](#)

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 4, which includes Georgia, is made available by the United States Environmental Protection Agency (EPA). There are no federally recognized Tribes in Georgia, according to the U.S. Department of Interior, Bureau of Indian Affairs.

Government Publication Date: Oct 14, 2017

Underground Storage Tanks (USTs) on Indian Lands:

[INDIAN UST](#)

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 4, which includes Georgia, is made available by the United States Environmental Protection Agency (EPA). There are no federally recognized Tribes in Georgia, according to the U.S. Department of Interior, Bureau of Indian Affairs.

Government Publication Date: Oct 14, 2017

Delisted Tribal Leaking Storage Tanks:

[DELISTED INDIAN LST](#)

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 20, 2023

Delisted Tribal Underground Storage Tanks:

[DELISTED INDIAN UST](#)

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 20, 2023

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Aug 18, 2022

Toxics Release Inventory (TRI) Program:

[TRIS](#)

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Oct 19, 2022

PFOA/PFOS Contaminated Sites:

[PFAS NPL](#)

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Dec 28, 2022

Federal Agency Locations with Known or Suspected PFAS Detections:

[PFAS FED SITES](#)

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. Sites on this list do not necessarily reflect the source/s of contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Jun 30, 2022

SSEHRI PFAS Contamination Sites:

[PFAS SSEHRI](#)

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations <https://pfasproject.com/pfas-contamination-site-tracker/>

Government Publication Date: Dec 12, 2019

National Response Center PFAS Spills:

[ERNS PFAS](#)

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

Government Publication Date: Feb 23, 2022

PFAS NPDES Discharge Monitoring:

[PFAS NPDES](#)

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: Feb 19, 2023

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Water Quality:

PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

PFAS TSCA Manufacture and Import Facilities:

PFAS TSCA

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest :

PFAS E-MANIFEST

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 9, 2023

PFAS Industry Sectors:

PFAS IND

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Apr 16, 2023

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data 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.

Government Publication Date: Feb 8, 2023

Toxic Substances Control Act:[TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA:[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:[FTTS INSP](#)

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:[PRP](#)

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Jan 25, 2023

State Coalition for Remediation of Drycleaners Listing:[SCRD DRYCLEANER](#)

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):[ICIS](#)

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records.

Government Publication Date: Oct 15, 2022

Drycleaner Facilities:[FED DRYCLEANERS](#)

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Dec 11, 2022

Delisted Drycleaner Facilities:[DELISTED FED DRY](#)

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Dec 11, 2022

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

Government Publication Date: Jul 12, 2022

FUDS Munitions Response Sites:

FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: Jul 12, 2022

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Mar 31, 2021

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Nov 7, 2022

Surface Mining Control and Reclamation Act Sites:

SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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 Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Government Publication Date: Aug 18, 2022

Mineral Resource Data System:

MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites:

LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 1, 2022

Alternative Fueling Stations:

ALT FUELS

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Mar 23, 2023

Superfunds Consent Decrees:

CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Apr 19, 2023

Air Facility System:

AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

Polychlorinated Biphenyl (PCB) Transformers:

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 3, 2022

State

Oil or Hazardous Material Spills or Releases:

SPILLS

Listing of oil or hazardous materials spills and releases complaints, maintained by the Environmental Protection Division (EPD) of the Georgia Department of Natural Resources.

Government Publication Date: Mar 13, 2023

Dry Cleaning Facilities:

DRYCLEANERS

List of drycleaning operations that have submitted information to the Air Protection Branch of the Georgia Department of Natural Resources. This list includes drycleaner facilities that use PERC (perchloroethylene) and that responded to the Notification of Compliance Status forms.

Government Publication Date: Dec 6, 2021

Delisted Dry Cleaning Facilities:

DELISTED DRYCLEANERS

List of sites removed from the drycleaners database made available by the Air Protection Branch of the Georgia Department of Natural Resources.

Government Publication Date: Dec 6, 2021

Tier 2 Report:

TIER 2

A list of Tier 2 facilities in Georgia. This list is provided by the Georgia Environmental Protection Division (Georgia EPD).

Government Publication Date: Nov 15, 2022

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX E

CREDENTIALS

Darryl K. Williams

Field Scientist

PROFESSIONAL EXPERIENCE

Darryl is a Field Scientist in Terracon's Jacksonville, Florida office. Darryl is responsible for environmental field sampling and is beginning to manage projects, ensuring client relationships are maintained and project scopes, budgets and timelines are facilitated accurately and efficiently.

Darryl has 32 years of experience as an environmental technician/field scientist with proven technical, management and communication skills. His experience includes ground and surface water sampling, soil sampling by FDEP and EPA protocol and radiological air and soil sampling. Establishing stage/discharge relationships on natural stream systems and the application of acoustical theory to open channel flow. Darryl is also U.S. Department of Labor Mine Safety and Health Administration trained and certified for metal and nonmetal surface mining operations.

Mr. Williams also has expertise in geotechnical exploration, pile load testing (PLT) and double ring infiltrometer testing (DRI). Consumptive use permitting for water resources for the agricultural, commercial/industrial, recreational and municipal sectors and threatened and endangered plant and animal assessment.

PROJECT EXPERIENCE

Phase 1 Environmental Site Assessments

Conduct Phase I ESA site reconnaissance to support numerous projects including; manufacturing and industrial facilities, office buildings / parks, retail, restaurants, telecommunications towers, and vacant wooded land.

CSER Level II - Hart Bridge Modifications – Jacksonville, Florida

Conducted field investigation for a Level II Impact to Construction Assessment to evaluate potential contamination that could adversely affect the proposed roadway construction. The project included seven identified sites along the alignment that required investigation. The assessment successfully identified impacted soil and groundwater and provide recommendations for future construction practices within the identified areas of concern.

FDEP Petroleum Restoration Program, Florida

Project manager of sites contracted under the FDEP PRP program. Sites include leaking underground storage tanks, historic petroleum releases, long term natural attenuation monitoring, remediation, and source removal sites.

EDUCATION

Resource Management, Lake City Community College, Lake City, FL

REGISTRATIONS

Registered Qualified Stormwater Management Inspector No. 33294, FDEP

CERTIFICATIONS

40-Hour HAZWOPER

OSHA Hazardous Waste Operations and Emergency Response

WORK HISTORY

U.S. Geological Survey
Hydrological Technician
1990-2005

St. Johns River Water Management District
Water Use Specialist
2005-2008

Iluka Resources, Inc.
Environmental Technician,
2010-2016

Terracon Consultants, Inc.,
Environmental Technician
III/ Field Scientist, 2017-Present

ADDITIONAL TRAINING

FDEP Gopher Tortoise Trapping and Relocation, 2015

Darryl K. Williams (continued)

Field Scientist

Florida School for the Deaf and the Blind – Saint Augustine, Florida

Conducted ongoing monitoring of a chlorinated solvent groundwater plume following in-situ bioremediation through injection of dehalococcoides (DHC) microbial bacteria to speed up the anaerobic process of reductive dechlorination breakdown of PCE and TCE to ethane.

First Coast Expressway – FDOT - Reynolds Site – Green Cove Springs, Florida

Instituted and oversaw a comprehensive Site Health and Safety Plan for geotechnical drilling operations within areas of known contamination. Due to the nature of the contaminants of concern, precautions were required during all aspects of drilling; from use of PPE to containerization of drill cuttings and decon water. Managed and oversaw the environmental and safety performance objectives for the project and facilitated the proper handling and profiling of generated waste for proper disposal.

The Pantry #6038 – Jacksonville, Florida

Operation and maintenance of an air sparge / soil vapor extraction system at a former gasoline service station. Responsible for monthly operation and maintenance and quarterly groundwater sampling. Proper operation and maintenance was successful in greatly reducing contaminants of concern in groundwater at the site.

Angellica Rodriguez-Baz

Senior Staff Scientist

PROFESSIONAL EXPERIENCE

Ms. Rodriguez-Baz is a Scientist in Terracon's Jacksonville, Florida office. She has over 9 years of research and laboratory experience within biological and veterinary/wildlife sciences and has 5 years of experience providing environmental consulting in the state of Florida. She has worked as a field biologist and project manager on federal, state, and privately funded projects. Her experience includes National Environmental Protection Act (NEPA) services, HUD environmental assessments, multi-media sampling, Limited, Phase I and II ESAs, Wetland Delineations, and threatened and endangered species assessments with animal relocation. She routinely interfaces with clients and manages deliverables. She currently is responsible for site visits, field observations, collection and analysis of data sampling, evaluation of maps, drawings and photos for associated projects as well as technical report writing. Personally, conducted and managed all aspects of over fifty Phase I ESA projects in compliance with ASTM standards throughout North and Central Florida.

PROJECT EXPERIENCE

City of Ocala, Brownfields Services, Assessment Grant – Ocala, FL

Assistant Project Manager and current consultant under City's assessment grant. Actively engaging local community and brownfields stakeholders through community outreach events. Developing brownfields site inventory and priority ranking system to aid in selection of properties for assessment. Providing project management and conducting field activities of Phase I and II Environmental Site Assessments including scope and site-specific quality assurance plan development. Conducting ACRES reporting and analysis of brownfield cleanup alternatives.

City of Jacksonville, Brownfields Services, Assessment Grant – Jacksonville, FL

Assistant Project Manager and current consultant under City's assessment grant. Actively engaging local community and brownfields stakeholders through community outreach events. Developing brownfields site inventory and priority ranking system to aid in selection of properties for assessment. Providing project management and conducting field activities of Phase I and II Environmental Site Assessments including scope and site-specific quality assurance plan development. Conducting ACRES reporting and analysis of brownfield cleanup alternatives.

Verizon Telecommunication Projects

Project Manager and personally, conducted and managed over one hundred LESA and numerous VSI projects in compliance with ASTM standards throughout North, West and Central Florida.

St. Johns County School District, Saint Augustine, FL - Environmental Services

Project Manager and Staff Scientist to provide services in environmental consulting on an as-needed basis for multiple SJC School Board c/o UBU, parcels. The scope of services includes preliminary Phase I Environmental Assessments, Phase II field work as needed. The anticipated future use of the sites is for future schools and the purpose of the ESA is to assist the client with acquiring the sites.



EDUCATION

M.S. Environmental Management,
University of Florida, 2017

B.S., Biology, Florida State University, 2012

CERTIFICATIONS

40-hr. OSHA HAZWOPER
8-hr. HAZWOPER Refresher
Adult/Child First Aid and CPR

AFFILIATIONS

University of North Florida –
Deans Leadership Council

Florida Native Plant Society –
Chapter Ixia Member

Angellica Rodriguez-Baz (continued)

Senior Staff Scientist

FDEP Petroleum Restoration Program, Florida

Currently managing numerous state funded site assessment and remediation projects under the FDEP PRP program. Sites include leaking underground storage tanks, historic petroleum releases, long term natural attenuation monitoring, active air sparge / soil vapor extraction remediation, and source removal sites.

St Johns County, SR - 207, HUD EA, Saint Augustine, FL

Staff Scientist to provide Environmental Assessment services for the proposed project to provide a new space for multiple area non-profits as well as residential units for low-moderate income residents. The existing facility does not have adequate facilities for shared organizations; and there is a shortage of affordable housing in the area. The proposed project encompassed the entire 13.53-acres of the site and will consist of the development of a new campus style Unified Service Center, recreational park and an affordable housing complex. To fulfill the proposed development plan, approximately 4-acres of existing vegetation will be.

Florida School for the Deaf and the Blind – Saint Augustine, Florida

Facilitated long-term field monitoring of a chlorinated solvent groundwater plume. Participated in the implemented in-situ bioremediation through injection of dehalococcoides (DHC) microbial bacteria to speed up the anaerobic process of reductive dechlorination breakdown of PCE and TCE to ethane. This strategy was adopted to ultimately save the client long term monitoring expenses and resulted in a stable plume allowing for regulatory closure.

Bozard Ford Co – Saint Augustine, Florida

Facilitated in field activities and projected management for the site's current long-term natural attenuation monitoring program, following a site assessment for a former service station which included both soil and groundwater delineation.

JEA Headquarters – Jacksonville, Florida

Conducted and managed on site field activities for chlorinated solvent groundwater remediation based on Terracon, City of Jacksonville, and FDEP approved Remedial Action Plan for the chlorinated solvent plume which involved injection of PlumeStop. The remediation strategy has been successful to date with a shrinking and stable plume evident, which will ultimately lead to site closure.

CSER Level II - Hart Bridge Modifications – Jacksonville, Florida

Conducted field activities associated with a Level II Impact to Construction Assessment to evaluate potential contamination that could adversely affect the proposed roadway construction. The project included seven identified sites along the alignment that required investigation. The assessment successfully identified impacted soil and groundwater and provide recommendations for future construction practices within the identified areas of concern.

Kyle E. Hayes

Environmental Department Manager

PROFESSIONAL EXPERIENCE

Mr. Hayes currently serves as the Environmental Department Manager in Terracon's Jacksonville, Florida office and oversees a diverse team of Scientists, Ecologists, Architectural Historians, and Archaeologists. Mr. Hayes has 17 years of experience as an environmental consultant/environmental scientist and manager with proven technical, management and communication skills. His experience includes the facilitation and management of multidisciplinary environmental projects relating to industrial processing, petroleum, mining, landfills, wetlands, governmental entities, waste streams, etc. Mr. Hayes is experienced in negotiating with regulatory agencies (federal, state, and local) regarding soil and groundwater contamination projects and general industry permitting and regulatory compliance.

PROJECT EXPERIENCE

Times Union Site Assessment, Jacksonville, Florida

Assisted in the management of a Site Assessment and petroleum / arsenic Background Study for a large-scale development project along the St. Johns River. Currently overseeing the implementation of institutional controls and soil / water management practices during construction.

Shipyards Development, Jacksonville, Florida

Overseeing the implementation of institutional controls and soil / water management practices during construction of the Four Seasons Hotel and a separate office building adjacent to the Jaguar's stadium along the St. Johns River. Providing support and guidance to the owner's representative and general contractor for potential construction and regulatory challenges throughout the project.

Sunshine Organics, Jacksonville, Florida

Assisted in the successful State permitting of a Solid Waste Management Facility designed for the production of organic compost using food waste. Permitting this one-of-a-kind facility in Northeast Florida was met with numerous permitting challenges that were overcome through a dedicated team of professionals who provided a strong partnership to the client and working relationship with the FDEP.

JEA Headquarters – Jacksonville, Florida

Managed a high-profile project with multiple environmental tasks including chlorinated solvent groundwater remediation and a large scale asbestos containing materials (ACM) soil/debris excavation. Worked closely with the client, City of Jacksonville, and FDEP to develop a Remedial Action Plan for the chlorinated solvent plume which involved injection of PlumeStop. The remediation strategy has been successful to date with a shrinking and stable plume evident, which will ultimately lead to site closure. During initial development activities on the site, ACM was identified requiring a large scale source removal of 14,000-tons of material from two intact historic basement structures. Over the course of the excavation numerous historic fuel tanks were encountered required proper closure. These projects were managed and completed as scoped.



EDUCATION

Environmental Science, Eckerd College, Saint Petersburg, FL

YEARS EXPERIENCE: 17

REGISTRATIONS

Registered Qualified Stormwater Management Inspector

CERTIFICATIONS

40-Hour HAZWOPER
OSHA Hazardous Waste Operations and Emergency Response

AFFILIATIONS

Secretary – First Coast Chapter
Alliance of Hazardous Materials Professionals

Florida Association of Environmental Professionals

Trustee – Jax Chamber

Saint John's County Continuing Services Contract, Florida

Managed a continuing services contract with Saint Johns County. Managed various projects, including of Phase I Environmental Site Assessments (ESAs), Environmental Assessments (EAs), Wastewater Treatment Plant permitting, and Reverse Osmosis Water Treatment permitting.

Saint John's County School District Continuing Contract, Florida

Managed a continuing services contract with Saint Johns County. Managed client and project team for the completion of a series of Asbestos Hazard Emergency Response Act (AHERA) school reinspections for the county. Conduct Phase I Environmental Site Assessments (ESAs), conducted a Tank Closure Assessment and removal for the First Coast Technical Institute, and facilitate on-going assessment of soil and groundwater at Nease High School.

Nassau County Management, Florida

Oversaw the facilitation of indoor air quality assessments in various county buildings for this local government body including air quality assessments in the Courthouse, the county Information Technology Service building, major evaluations of the HVAC systems at the Sheriff's Office, and the County Jail and a large-scale examination of air quality and related issues at the Supervisor of Elections building as well as numerous investigations of air quality in other municipal buildings.

Florida School for the Deaf and the Blind – Saint Augustine, Florida

Facilitated ongoing monitoring of a chlorinated solvent groundwater plume. Developed and implemented in-situ bioremediation through injection of dehalococcoides (DHC) microbial bacteria to speed up the anaerobic process of reductive dechlorination breakdown of PCE and TCE to ethane. This strategy was adopted to ultimately save the client long term monitoring expenses. Currently working with FDEP to obtain site closure.

University of North Florida – University Center Bldg.

Assisted with management of an Indoor Air Quality and Drinking Water Quality Assessment. The assessment included conducted visual observations, obtained building interior temperature, relative humidity, airborne CO₂, CO and surface moisture measurements, drinking water sampling and a written report with findings and recommendations.

University of Florida Dental Tower IEQ

Managed the Indoor Environmental Quality (IEQ) for the UF Dental Tower. Developed, distributed, and collected an occupant survey designed to gauge the indoor environmental quality concerns of occupants in the building. Survey results were used to prioritize assessment areas within the building. Provided a written report and consulting to the Dean and staff with findings and recommendations.

State Road 16 Wastewater Treatment Facility – SJC Utilities – Saint Augustine, Florida

Over a 13 year period, Mr. Hayes performed biological monitoring of a created and natural wetland system that receives effluent from a wastewater treatment plant in Saint Johns County, Florida. Monitoring activities include; surface water / sediment / benthic macro-invertebrate sampling, herbaceous / woody species transect cover counts, mosquito larvae counts, threatened and endangered species surveys and completing of a bi-annual report for submittal to the FDEP.

City of Jacksonville, Brownfields Services, Assessment Grants – Jacksonville, Florida

Worked with the COJ on an EPA Brownfields Assessment Grant and facilitated their prior grant, which includes the development, coordination, and management of assessment projects and enthusiastically engaging local community and brownfields stakeholders through community outreach. Manage Phase I and II Environmental Site Assessments including scope and site-specific quality assurance plan development.

City of Ocala, Brownfields Services, Assessment Grant – Jacksonville, FL

Current Project Manager under City assessment grant and served as manger for a prior grant. Work closely with City to ensure projects are facilitated on schedule and meet expectations / goals. Actively engaging local community and brownfields stakeholders through community outreach events. Assisted in developing brownfields site inventory and priority ranking system to aid in selection of properties for assessment. Providing project management of Phase I and II Environmental Site Assessments including scope and site-specific quality assurance plan development. Ensure ACRES reporting and analysis of brownfield cleanup alternatives are completed.

APPENDIX F

DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term/Acrony m	Description
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).</p> <p>Regulatory agencies have generally defined ACM as a material containing greater than one (1) percent asbestos, however some states (e.g., California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.</p> <p>Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-21 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 considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment

Description of Selected General Terms and Acronyms

Term/Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-21 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). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

Description of Selected General Terms and Acronyms

Term/Acronym	Description
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC 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. EC 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.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act

Description of Selected General Terms and Acronyms

Term/Acronym	Description
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ("cradle to grave"). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.

Description of Selected General Terms and Acronyms

Term/Acronym	Description
RCRA CORRACTS/TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-21 as 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.
SCL	State "CERCLIS" List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons

Description of Selected General Terms and Acronyms

Term/Acronym	Description
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound

Description of Selected General Terms and Acronyms

Term/Acronym	Description
Wetlands	<p>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>