

Phase I Environmental Site Assessment

2.40±-Acre Proposed Dollar General Store Site
NC Highway 87
Pittsboro, Chatham County, North Carolina
PES Project Number: R24-528

August 29, 2024



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References

- 40 Code of Federal Regulations Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule.
- 42 United States Code §9601 *et seq*, Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) and Small Business Liability Relief and Brownfields Revitalization Act of 2002 (Brownfields Amendments).
- 42 United States Code §9601 *et seq*, Resource Conservation and Recovery Act as amended (RCRA).
- ASTM International, 2021, *Standard Practice for Environmental Site Assessments: Phase I Environ. Site Assessment Process*: Designation E 1527-21, W. Conshohocken, PA.
- United States Department of Agriculture, Natural Resources Conservation Service, *Soil Survey of Chatham County, NC*, reviewed on-line at <http://websoilsurvey.nrcs.usda.gov>.
- USGS, 2022, Silk Hope, NC topographic quadrangle.

1.0 INTRODUCTION

Proctor Environmental Services, Inc. (PES) was retained by Glandon Forest Equity, LLC to conduct a Phase I Environmental Site Assessment (ESA) in compliance with the ASTM Standard Practice E1527-21 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), as discussed herein. The Purpose, Scope of Services, Limitations and User Reliance, as well as definitions for the ASTM-related environmental conditions and acronyms used throughout this assessment report can be found in **Appendix A**.

1.1 Executive Summary

The following summary of our findings is not intended to replace more detailed information contained elsewhere in the body of this report.

The subject Property consists of approximately 2.40-acres of unoccupied, wooded and undeveloped land. It is a portion of a larger, approximately 5.53±-acre tract located on the east side of NC Highway 87 in Pittsboro, North Carolina. The adjoining property to the west, across NC Highway 87, was formerly occupied with an apparent agricultural residence but is now unoccupied and lightly wooded; the adjoining property to the south is a former convenience store known as Mann Store. The site is now occupied by an automotive detailing shop and several unoccupied work bays.

Historical resources were available from 1939 to 2022. Based on readily available information, the Site does not appear to have been developed or used for any purpose other than being occupied by several mobile homes during the 1970s and 1980s. The Site is presently wooded, undeveloped and unoccupied.

No Recognized Environmental Conditions (RECs), historical recognized environmental conditions (HRECs), controlled recognized environmental conditions, (CRECs) and/or de minimis conditions requiring additional assessment and/or corrective action were revealed on the project Site. However, the adjacent and topographically upgradient, off-Site property located at 7070 NC Highway North has been identified as a leaking underground storage tank (LUST) site. A petroleum release was during the closure by removal of four petroleum USTs in 1991. Free product was noted floating on the water in the UST excavation and 217 cubic yards of soil was removed and disposed off-site. Based upon these conditions, nearby water-supply wells have been sampled to determine if they have been adversely impacted by the petroleum release. The most recent sampling event occurred in April 2024 when the well at 7042 Highway 87 and the well located on the subject Site were sampled. Both supply-well samples exhibited benzene concentrations in excess of its North Carolina Groundwater Quality Standard of 1 ug/L. Specifically, the sample from WSW-7070, located immediately adjacent to the subject Site's southern

boundary, exhibited 19 ug/L of benzene.

Based upon these documented conditions in conjunction with the anticipated groundwater flow direction (from south to north; i.e., from the impacted LUST site towards the subject Site), the UST release and impacted groundwater originating from 7070 NC Highway 87 presents an environmental concern to the subject Site and is considered an REC. It is our opinion that petroleum release may have or may, in the future, migrate under the proposed Dollar General store footprint. Further assessment is necessary to determine if drinking water at the subject Site may become impacted or potential vapor intrusion conditions may exist under the proposed building footprint.

2.0 SITE AND VICINITY DESCRIPTION

The subject Property consists of undeveloped wooded property. The adjoining properties to the north and east are also wooded and undeveloped. The adjoining property to the west, across NC Highway 87, was formerly occupied with an apparent agricultural residence but is now unoccupied and lightly wooded; the adjoining property to the south is a former convenience store known as Mann Store. The site is now occupied by an automotive detailing shop and several unoccupied work bays. Photographs of the Site and surrounding properties can be found in **Appendix B**. A Site Location Map is attached as **Figure 1** and an Aerial Site Plan is attached as **Figure 2**. General information describing the Project and Site is summarized below:

Project Name	Proposed Dollar General Store Site
Street Address	Not yet Assigned. NC Highway 87
City & County	Pittsboro, Chatham
State	North Carolina
Vicinity Characteristics	Mostly wooded and light residential and commercial
Site Acreage/Source	~2.40+ Acres. Source – Glandon Forest Equity, LLC
Property Type	Undeveloped
Site Use	Wooded
Parcel ID Number	Portion of 0068537 (5.527-acres in total)

General information describing the Site’s buildings and usage is summarized below:

Number of Buildings	NA
Year(s) of Construction	NA
Number of Floors	NA
Basement or Subgrade Area	NA
Number of Units	NA
Building Area (sf)	NA
Building Description(s)	NA
Building Occupant	NA

Additional Improvement(s)	NA
Current On-Site Operation(s)	NA
Current Use of Haz Substance(s)	None Known or Suspected

General information describing the Site’s adjoining properties and usage is summarized below:

Direction from Site	Tenant/Use (Address)	Regulatory Listing(s)*
North	Wooded	None
East	Wooded	None
South	Former Convenience Store	LUST
West	Lightly Wooded	None

*Refer to **Section 5.0** of this Report for additional information regarding regulatory listings, if any.

3.0 USER-PROVIDED INFORMATION

PES interviewed via a written questionnaire Ms. Tiffani Bylow, Business Manager of Glandon Forest Equity, LLC, the User of this Phase I ESA. According to Ms. Bylow, she is unaware of any known environmentally related issues or concerns associated with the Site. A record of the questionnaire completed by Ms. Bylow can be found in **Appendix H**.

3.1 Title Records

PES was not contracted to perform a chain of title for the subject property and no title records were provided for our review. The Property’s tax record, deed and plat from the Chatham County Tax Office is in **Appendix H**.

3.2 Environmental Liens, Activity, and/or Use Limitations

The User stated that they are unaware of environmental liens and/or activity and use limitations connected with the subject property.

3.3 Specialized Knowledge

The User stated that they do not have any specialized knowledge regarding the Site or nearby properties.

3.4 Valuation Reduction for Environmental Issues

The User stated they believe the Site’s purchase price reflects its fair market value and has no knowledge of valuation reduction for environmental issues associated with the Site or nearby properties.

3.5 Commonly Known or Reasonably Ascertainable Information

The User that they are not aware of any commonly known or reasonably ascertainable information regarding the Site or nearby properties.

3.6 Identification of Owner, Key Site Manager and Occupant(s)

Mr. Ronald E. Vaughn identified himself as the owner of the Site according to the Chatham County Tax Office, as documented in the Site's Appraisal Card found in **Appendix H**. The Site is in use for unoccupied and wooded.

3.7 Reason for Performing the Phase I ESA

It is our understanding that this Phase I ESA is being used as part of the environmental inquiry into the Property in association with the proposed purchase and development of the Site.

4.0 RECORDS REVIEW

4.1 Physical Setting

The geologic and hydrogeologic settings of a site are considered of interest since they may provide information related to the direction and physical mechanisms of contaminant migration, if present, from on-site and off-site sources. PES personnel have reviewed readily available information with regard to the following geologic and hydrogeologic characteristics of the Site and surrounding area:

Topography	
Site Elevation (amsl*)	Approximately 500 ft (SW) to 490 ft (NE)
Surface Runoff / Topographic Gradient	Generally towards the North
Closest Surface Water	An unnamed tributary about 1000 feet north of the Site's northern property boundary
Source of Information	USGS Topographic Map, Silk Hope, NC Quadrangle, 2022

Soil Characteristics	
Soil Types	Herndon Silty Loam
Description	Class B – Moderate Infiltration Rates. Deep and Moderately Deep, Moderately Well Drained and Well Drained Soils with

Soil Characteristics	
	Moderately Coarse Textures.
Source of Information	EDR Radius Report, USDA Soil Conservation Service, National Cooperative Soil Survey (Appendix I)

Geology/Hydrogeology	
Formation	Paleozoic Era Eugeosynclinal Deposits of the Piedmont Physiographic Province of North Carolina
Description	Surficial deposits of sand, clay, and gravel
Estimated Depth to First Occurrence of Groundwater	Unknown but estimated to be less than 20 feet below land surface
Primary Aquifer	Bedrock Aquifer
Hydrogeologic Gradient**	Towards the North

* amsl – Above Mean Sea Level

** 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 but are estimated based on our review of the topographic map and Site conditions.

4.2 Historical Use Information

Historical resources were available from 1939 to 2022. As discussed below and based on readily available information, the Site does not appear to have been developed or used for any purpose other than being occupied by several mobile homes during the 1970s and 1980s. The Site is presently wooded, undeveloped and unoccupied.

4.3 City Directories

Historical city directories were made available from EDR for the area of the subject Site for the years **2000 through 2022** at approximately five-year increments. City directories have tenant listings by address. Our review of the city directories of the Property, as documented in **Appendix C**, indicates no listings of any nearby topographically upgradient sites of potential environmental concern associated with the Property.

4.4 Aerial Photographs

Aerial photographs were made available from EDR. As found in **Appendix D**, photographs dated **1939, 1950, 1961, 1964, 1973, 1983, 1993, 1998, 2006, 2009, 2012,**

2016 and 2020 were obtained for the Site. Our review of the aerial photographs for the Site and adjoining properties is summarized below:

Year	Subject Site
1939 through 1964	Site appears wooded and undeveloped.
1973 through 1993	Two apparent mobile homes are located on the west side of the Property along Highway 87.
1998 through 2020	Site appears wooded and undeveloped.

Year	Adjoining Properties
1939 through 1961	Adjoining property to the southwest, across NC Highway 87, has an apparent residence. Remaining adjoining properties are wooded and undeveloped (South, east, northeast) or agricultural (Northwest and west).
1964 through 1998	The adjoining property to the south, along Highway 87, is developed with an apparent convenience store and/or possible automotive garage. The remaining adjoining properties appear similar to previous years.
2006 through 2020	The adjoining property to the southwest, previously occupied by a residence, now appears undeveloped, partially cleared and partially wooded. The remaining adjoining properties appear similar to previous years.

With the possible exception of the apparent convenience store located adjacent and east of the Site, no historically significant environmental sites or indications of concern were noted either on or off-Site during our review of the available aerial photographs.

4.5 Sanborn Fire Insurance Maps

No historical Sanborn maps were available for the Site. A copy of the Sanborn map search by EDR for the area of the Site confirming this is documented in **Appendix E**.

4.6 Topographic Maps

As found in **Appendix F**, United States Geological Society (USGS) topographic quadrangle maps for the years **1974, 2013, 2016, 2019, 2022** were reviewed by PES personnel. The Site appears wooded and undeveloped over the timeframe reviewed. Adjoining properties in all directions appear undeveloped as well. No historically significant environmental sites or indications of concern were noted either on or off-Site during our review of the available topographic maps.

4.7 Review of Historical Environmental Reports or Investigations

No historical environmental reports of investigative results for the Property were made available by the User or Property Owner during this investigation.

5.0 FEDERAL, STATE, LOCAL & TRIBAL DATABASE LISTINGS

PES contracted EDR, Inc. to conduct a regulatory database search in accordance with ASTM E 1527-21 standards. The purpose of the search is to identify properties and facilities located within an ASTM-specific search radius of the Site (including the Site, as applicable) which are regulated by the United States Environmental Protection Agency (EPA) and various state and local environmental regulatory agencies. Detailed information pertaining to each database researched is presented in the EDR Radius Report, dated **August 19, 2024**, a copy of which is included in **Appendix I**.

The **Table** below presents a summary of data with the number of plottable listings within ASTM-specified search radii, as well as those located adjacent to and/or hydraulically upgradient of the Site. The EDR database uses a physical street address to map the location of a facility in relation to the subject site. Reported facilities without an exact physical street address are not mentioned in this review. Some existing USTs might not appear in the databases because they have not been registered by the owners or, due to the size and contents, may be exempt from registration.

PES limits discussion to only include information pertaining to sites located on: 1) the subject Site; 2) adjacent properties; and/or 3) hydraulically upgradient to the subject site. During performance of this assessment, PES obtained listings of sites on Federal, State, local, and tribal environmental regulatory databases, which meet the minimum search distances recommended in ASTM Standard E 1527-21; however, only those sites located on properties in one of the three aforementioned categories are discussed in this report.

Database	Number of Listings Found in Search Radii			
	On-Site	Total Off-Site	Adjacent Property	Upgradient (South)
STANDARD ENVIRONMENTAL RECORDS				
Federal NPL (National Priorities List)	0	0	0	0
Proposed NPL	0	0	0	0
NPL Liens	0	0	0	0
US Brownfields	0	0	0	0
Federal CERCLIS	0	0	0	0
Federal CERCLIS / NFRAP	0	0	0	0
Federal CORRACTS (RCRA Corrective Actions)	0	0	0	0
Non-CORRACTS (RCRA TSD Facilities)	0	0	0	0
RCRA - Sm. Quantity & Lg. Quantity Generators	0	0	0	0

Database	Number of Listings Found in Search Radii			
	On-Site	Total Off-Site	Adjacent Property	Upgradient (South)
RCRA - Cond. Exempt Sm. Quantity Generators	0	0	0	0
RCRIS-TSD (RCRA Treatment, Storage, & Disposal site)	0	0	0	0
Federal ERNS (Emergency Response Notification System)	0	0	0	0
State NPL (HSDS - Hazardous Substance Disposal Site)	0	0	0	0
State CERCLIS (IHSI - Inactive Haz Sites Inventory)	0	0	0	0
State CERCLIS (SHWS - State Haz Waste Sites)	0	0	0	0
State Landfill (SWLF - Solid Waste Disposal Facilities)	0	0	0	0
SWRCY (Recycling Center Directory)	0	0	0	0
State LUST (Leaking Underground Storage Tank)	0	0	1	1
State UST (Underground Storage Tank)	0	0	0	0
State LAST (Leaking Aboveground Storage Tank)	0	0	0	0
State AST (Aboveground Storage Tank)	0	0	0	0
State VCP (Voluntary Cleanup Program)	0	0	0	0
State IMD (Incident Management Database)	0	0	0	0
State LCID (Land-Clearing & Inert Debris Landfill)	0	0	0	0
State Institutional Controls	0	0	0	0
State Brownfields Site	0	0	0	0
OTHER ASCERTAINABLE RECORDS				
RCRA Non-Generator / NLR	0	0	0	0
PFAS ECHO	0	0	0	0
UST Finder Release	0	0	1	1
FINDS (Facility Index System)	0	0	0	0
NC Drycleaners	0	0	0	0
EDR HIGH RISK HISTORICAL & GOVT RECORDS				
MGP (Manufactured Gas Plant)	0	0	0	0
Historic Dry Cleaners	0	0	0	0
Historic Auto Stations	0	0	0	0
State Historic Landfills	0	0	0	0
State RGA LUST	0	0	0	0
State RGA HWS	0	0	0	0
Total Regulatory Listings Mapped	0	0	2	2

5.1 On-Site Regulatory Issues

The Site was not identified as a listed site in the EDR database search.

5.2 Off-Site Regulatory Issues

One reported adjacent and topographically upgradient, off-Site release, the **Mann Store Site** located at 7070 NC Highway North was identified by EDR. This site, located south of the subject Site, is identified as a leaking underground storage tank (LUST) site as well as a UST Finder Release site. According to the EDR report, a petroleum release was

reported to the Raleigh Regional Office of the NCDEQ on January 7, 1991 during the closure by removal of four USTs. As documented in **Appendix H**, a March 8, 2019 Phase I Limited Site Assessment (LSA) prepared by S&ME, four petroleum USTs were removed from the site in 1990. Free product was noted floating on the water in the UST excavation and 217 cubic yards of soil was removed and disposed off-site. The adjacent LUST site, as well as numerous other nearby occupied properties in the area, are served by private drinking water wells. Over the years, several of these wells have been sampled under the direction of the NCDEQ to determine if they have been adversely impacted by the documented UST release.

The most recent sampling event occurred earlier this year, in April 2024, by Catlin Engineers and Scientists. As documented in Catlin's May 3, 2024 letter report, as found in **Appendix H**, two nearby supply wells were sampled for petroleum constituents. As shown in **Figure 3**, Well WSW-8 (7042 Highway 87, located about 80 feet due south of the former LUST site), and Well WSW-7070 (located at the northeast corner of the building at 7070 NC Highway 87) were sampled for laboratory analysis. Both supply well samples exhibited benzene concentrations in excess of its North Carolina Groundwater Quality Standard of 1 ug/L. Specifically, the sample from WSW-8 exhibited 3.9 ug/L of benzene and the sample from WSW-7070 exhibited 19 ug/L of benzene. Based on the results from the UST closure activities, receptor surveys and water-supply wells sampling, the NCDEQ has assigned a High-Risk classification to the petroleum release site and issued letters to nearby property owners that their well water should not be used for drinking or cooking purposes.

Based upon these documented conditions in conjunction with the anticipated groundwater flow direction (from the impacted LUST site towards the subject Site), the UST release and impacted groundwater originating from 7070 NC Highway 87 presents an environmental concern to the subject Site and is considered an REC. No other properties within the regulatory databases searched had documented adverse environmental conditionals.

6.0 INTERVIEWS

PES interviewed or attempted to interview various persons familiar with the project Site and surrounding properties, as follows:

6.1 Interview with the Site Owner or Key Manager

PES interviewed the Site's owner, Mr. Ronald Vaughn, via a written questionnaire regarding known environmental conditions at the Site. Mr. Vaughn's completed questionnaire survey regarding the subject Site is contained in **Appendix H**. Mr. Vaughn stated that the Site has been in his family for 60 years and is now vacant. He stated that

several mobile homes were located on the Site 20+ years ago. He stated that the adjacent property to the south was formerly a “gasoline station” 40 years ago and that he is unaware of any environmental concerns related to the Site.

6.2 Local Fire Officials

PES contacted the Chatham County Fire Marshall's Office regarding any known records of responses to incidents involving hazardous materials, including fires, chemical spills, hazardous material releases, and incidents of environmental concern. As of the issuance of this report, no response has been received to our request. In the event a response is received which negatively impacts the findings of this assessment, the client will be notified.

7.0 SITE RECONNAISSANCE

Mr. Tom Proctor of PES performed a Site reconnaissance on August 24, 2024, to review current site conditions. PES personnel had full access to all areas of the subject Site. The Property and boundaries were walked, and the adjacent parcels were viewed. An escort was not provided during the Site reconnaissance. The following information summarizes the findings of our Site reconnaissance:

7.1 General Site Characteristics

The subject Property consists of approximately 2.40-acres of unoccupied, wooded and undeveloped land. It is a portion of a larger, approximately 5.53±-acre tract located on the east side of NC Highway 87 in Pittsboro, North Carolina. The adjoining property to the west, across NC Highway 87, was formerly occupied with an apparent agricultural residence but is now unoccupied and lightly wooded; the adjoining property to the south is a former convenience store known as Mann Store. The site is now occupied by an automotive detailing shop and several unoccupied work bays. Photographs of the Site and surrounding properties can be found in **Appendix B**. A Site Location Map is attached as **Figure 1** and a Site Plan is attached as **Figure 2**.

7.2 Solid Waste, Drinking Water / Sewer System

Item	Observed?	Comment
Solid Waste Disposal	No	None
Potable Water	No	None
Sewage Discharge	No	None
Surface Water Drainage	No	None
Heating and Cooling	No	None
Wells and Cisterns	No	None

Waste Water	No	None
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7.3 Site Operations, Processes, and Equipment

Item or Feature	Observed	Photo #	REC
Emergency generators	No		
Air compressors	No		
Hydraulic lifts	No		
Dry cleaning	No		
Photo processing	No		
Laboratory hoods and/or incinerators	No		
Waste treatment systems and/or water treatment systems	No		
Heating and/or cooling systems	No		
Other processes or equipment	No		

7.4 Aboveground Chemical or Waste Storage

Item or Feature	Observed	Photo #	REC
Aboveground storage tanks	No		
Drums, barrels and/or containers > 5 gallons	No		
MSDS	No		
Parts Washer	No		
Other	No		

7.5 Underground Chemical or Waste Storage, Drainage, or Collection Systems

Item or Feature	Observed	Photo #	REC
Underground storage tanks or ancillary UST equipment	No		
Sumps, cisterns, catch basins and/or dry wells	No		
Grease traps	No		
Septic tanks and/or leach fields	No		
Oil/water separators	No		
Pipeline markers	No		
Interior floor drains	No		
Other	No		

7.6 Electrical Transformers / PCBs

Item or Feature	Observed	Photo #	REC
Pad or pole mounted transformers and/or capacitors	No		
Other equipment	No		

7.7 Releases or Potential Releases

Item or Feature	Observed	Photo #	REC
Stressed vegetation	No		
Stained soil	No		

Item or Feature	Observed	Photo #	REC
Stained pavement or similar surface	No		
Leachate and/or waste seeps	No		
Trash, debris and/or other waste materials	No		
Dumping or disposal areas	No		
Construction/demolition debris and/or dumped fill dirt	No		
Surface water discoloration, odor, sheen, free floating product	No		
Strong, pungent or noxious odors	No		
Exterior pipe discharges and/or other effluent discharges	No		
Other	No		

7.8 Other Notable Site Features

Item or Feature	Observed	Photo #	REC
Surface water bodies	No		
Quarries or pits	No		
Monitoring Well(s)	No		
Water-Supply Well(s)	No		
Stormwater	No		
Other site features	No		

8.0 VAPOR INTRUSION CONDITIONS ASSESSMENT

8.1 Vapor Intrusion Conditions

As discussed in **Section 5.2** of this report, the adjacent property to the south has been identified as a LUST site and petroleum-impacted groundwater is known to be present near the Site's southern property boundary. The degree and extent of impacted groundwater is unknown. Therefore, based on the records review and site reconnaissance, the potential exists for vapor intrusion conditions (VICs) on the subject Site. Further assessment would be necessary to confirm the VI conditions.

8.2 Potential Vapor Intrusion Conditions

In accordance with the ASTM E2600-10 standard, a non-invasive Tier-1 assessment of potential vapor intrusion conditions (pVICs) was performed for the Site to identify potential VICs. The Tier-1 assessment involves a search distance test that evaluates the proximity of the planned or existing structures on the subject Property to the nearest known edge of contamination (100 feet for volatile contaminants other than dissolved petroleum hydrocarbon chemicals and 30 feet for petroleum chemicals). In conjunction with the discussion above in Section 8.1, potential VICs may exist. Further assessment would be necessary to confirm the VI conditions on the subject Site.

9.0 NON-ASTM SCOPE CONCERNS

No Non-ASTM Scope concerns were addressed in this Phase I ESA except for radon, wetlands, and lead in drinking water, as discussed below. This information is summarized from the attached EDR report or based on local knowledge. Further assessment would be necessary to verify these EDR-based findings.

9.1 Radon

According to the attached EDR report (**Appendix I**), the Project is in an area designated as Zone 3, characterized by indoor average radon level of less than 2 pCi/L. The EPA has set a national action level of 4.0 pCi/L for radon, so the Property is in an area that should be less than the EPA's national action level. To confirm the actual radon levels at the Project, a formal radon survey would be required.

9.2 Wetlands / Erosion and Soil Control Concerns

According to the map in the attached EDR report (**Appendix I**), none of the Site or adjoining properties are listed in the National Wetland Inventory.

9.3 Lead in Drinking Water

Municipal water is reportedly not available to the area of the Site and nearby properties, including the adjacent property to the south, obtain their drinking water from private wells. Based on the environmental conditions observed on the site to the south, testing and analysis of the Site's proposed water-supply would be necessary to verify the condition of the drinking water at the Site.

10.0 DEVIATIONS AND DATA GAPS

10.1 Deviations

There were no significant deviations from the proposed scope of work.

10.2 Data Gaps

ASTM 1527-21 states that "A data gap occurs as a result of a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." The ASTM practice requires that use of the Site be researched back to 1940, or earlier if possible. Information regarding the historical use of the Site was readily available back to 1939. No data gaps were identified during the preparation of this report which may have affected the ability of the Environmental

Professional to identify on-site or offsite recognized environmental conditions in connection with the project site.

11.0 FINDINGS, OPINIONS AND RECOMMENDATIONS

11.1 Findings

A reported adjacent and topographically upgradient, off-Site release, the **Mann Store Site** located at 7070 NC Highway North was identified by EDR as a leaking underground storage tank (LUST) site. Soil and groundwater contamination are present at levels exceeding regulatory guidelines and standards. Based upon these documented conditions in conjunction with the anticipated groundwater flow direction (from south to north; i.e., from the impacted LUST site towards the subject Site), the UST release and impacted groundwater originating from LUST site presents an environmental concern to the subject Site and is considered an REC. It is our opinion that the petroleum release may have or may, in the future, migrate under the proposed Dollar General store footprint. Further assessment is necessary to determine if drinking water at the subject Site may become impacted or potential vapor intrusion conditions may exist under the proposed building footprint.

11.2 Opinion(s) and Conclusions

Further assessment is necessary to determine if drinking water at the subject Site may become impacted or potential vapor intrusion conditions may exist under the proposed building footprint.

12.0 ENVIRONMENTAL PROFESSIONAL CERTIFICATION

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312.

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



Thomas A. Proctor, L.G., RSM



FIGURES

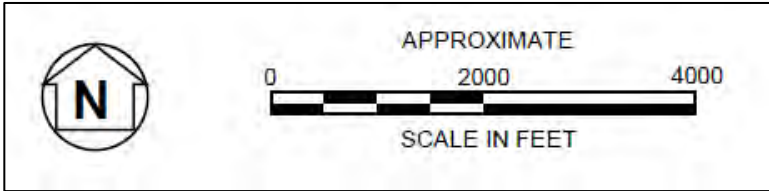
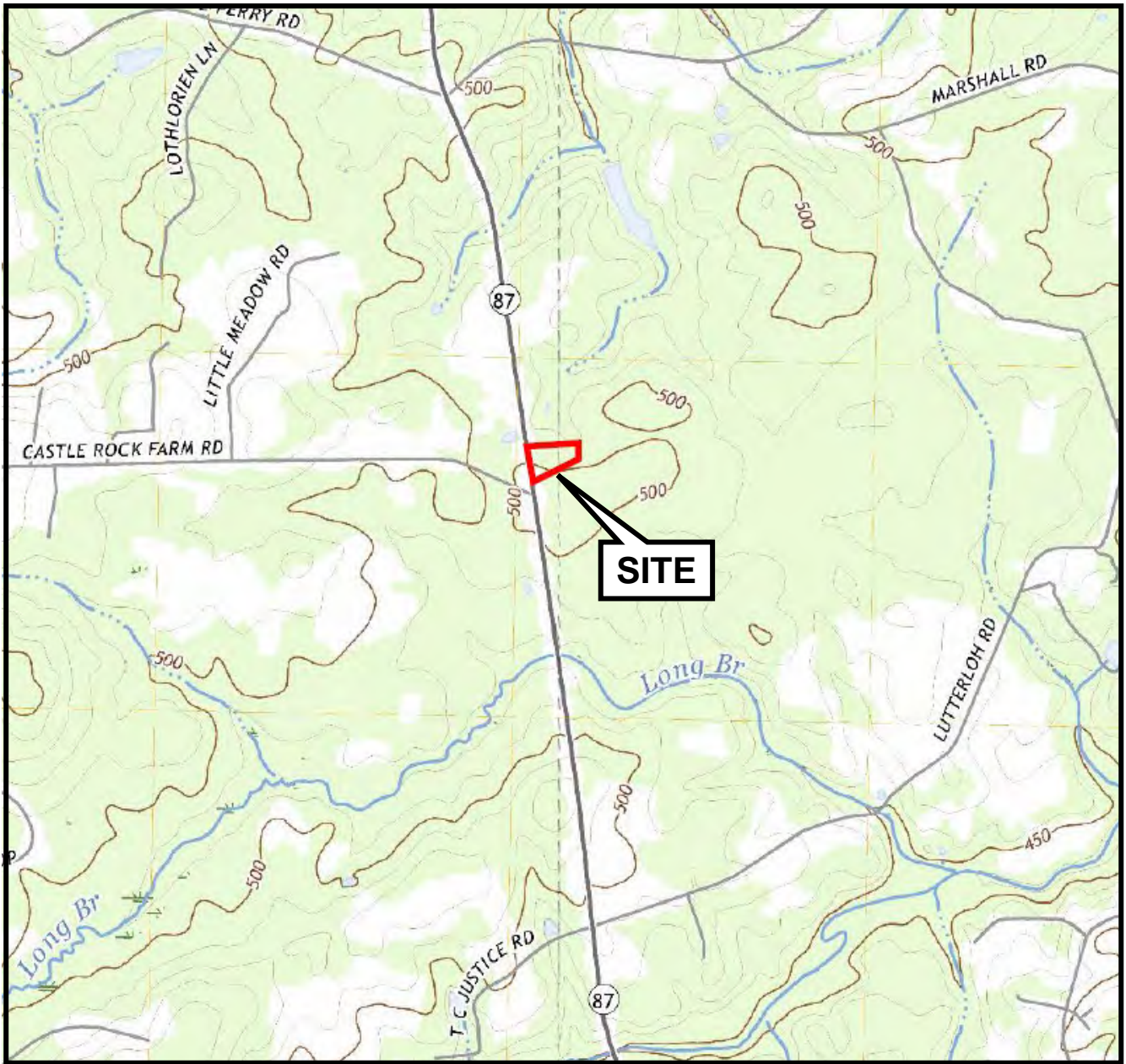


Figure 1 – Site Location Map

Source: USGS 7.5 Minute Topographic Map Silk Hope, NC Quad 2022



**2.40-Acre Proposed Dollar General Site
 NC Highway 87
 Pittsboro, Chatham County, North Carolina**

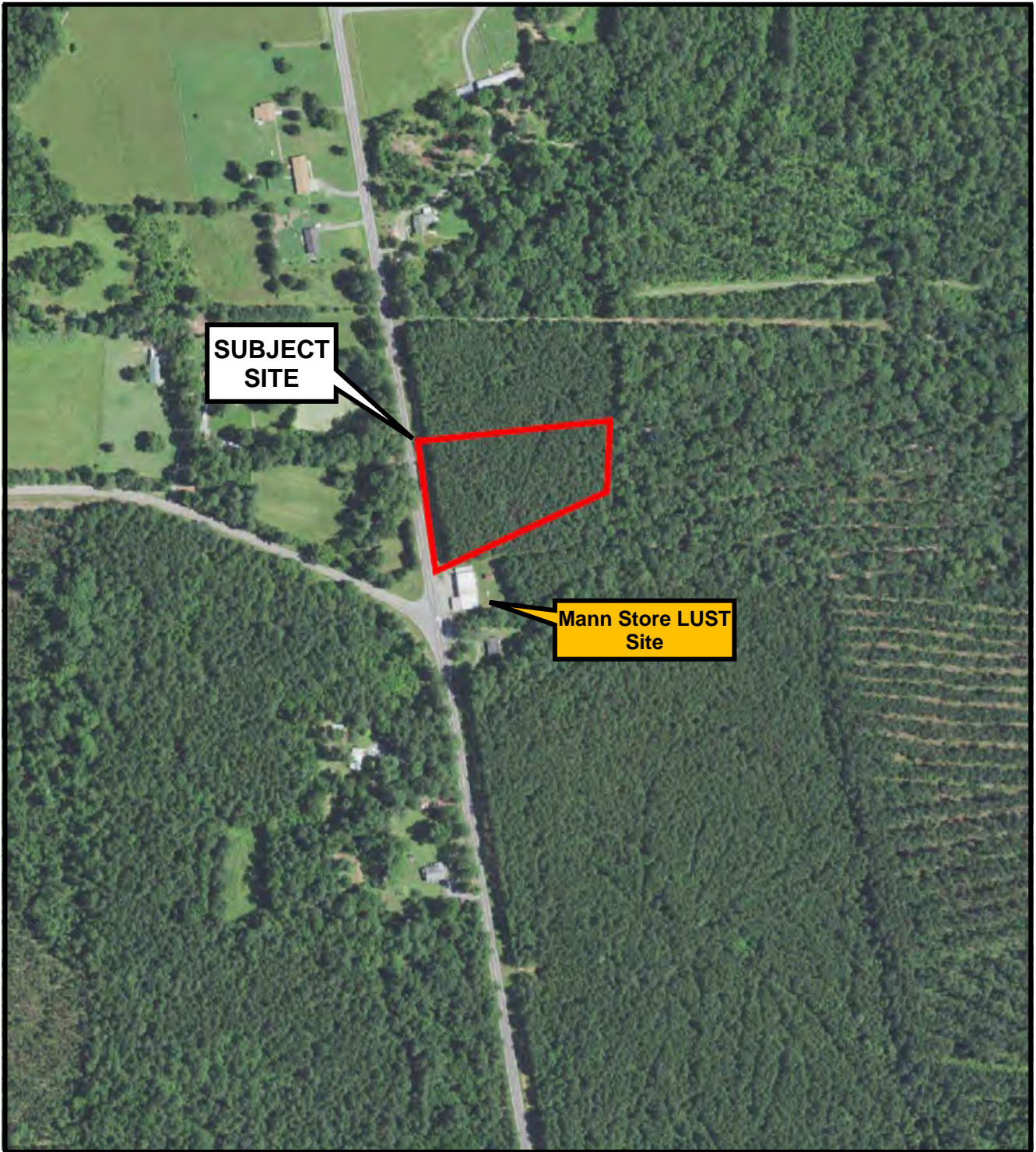


Figure 2 – Aerial Site Map

Source: USDA/NAIP Aerial, Flight Year 2020

Scale: 1" = 250'



**2.40-Acre Proposed Dollar General Site
NC Highway 87
Pittsboro, Chatham County, North Carolina**



Figure 3 – WSW Location Map

Source: S&ME March 8, 2019, Phase I LSA



**2.40±-Acre Proposed Dollar General Site
NC Highway 87
Pittsboro, Chatham County, North Carolina**

APPENDICES

APPENDIX A

REC ACRONYMS AND PRODUCT INFORMATION

Phase I ESA Product Information

Purpose

The purposes of this ESA are to identify existing or potential RECs (as defined by ASTM Standard E1527-13, hereinafter defined) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to hazardous substances or petroleum products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property, and; 5) may require specific actions to be performed with regard to such conditions and circumstances. This ESA report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

Scope of Services

This ESA was conducted in substantial compliance with ASTM Designation: E 1527-13 - *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The intention of the ASTM E 1527-13 practice is "to permit a user to satisfy one of the requirements to qualify for the *innocent landowner defense* to CERCLA liability: that is, the practices that constitute 'all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice' as defined in 42 USC 9601(35)(B)." Specifically, this Phase I ESA included the following scope of services:

(A) *Site and Vicinity Reconnaissance* - PES conducted a site and vicinity reconnaissance, the objective of which was to obtain information indicating the likelihood of the existence of "recognized environmental conditions" in connection with the subject property, as defined in ASTM E-1527-13. PES's site and vicinity reconnaissance included an evaluation of the site and nearby properties with respect to existing conditions and with respect to obvious indications and evidence of past conditions;

(B) *Records Review* - PES conducted a records review, the objective of which was to obtain and review records (of both current and historical significance) in order to help identify "recognized environmental conditions" in connection with the subject property. Those specific records reviewed, including those records which were sought and were not readily available or reasonably ascertainable, are identified in the report; and

(C) *Interviews* - PES conducted interviews with persons associated with the subject property and with appropriate local government officials in order to identify "recognized environmental conditions" in connection with the subject property. The specific parties interviewed, and the nature and scope of the interviews are described in the report.

The goal in conducting the ESA was to identify the presence or likely presence of any hazardous substances or petroleum products on the subject property that may indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum product into the soil, groundwater, or surface water of the subject property.

Other environmental considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by ASTM E1527-13. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

The following assumptions are made in this report. PES relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. PES has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, PES cannot guarantee the thoroughness or reliability of this information.

Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data, or well data from adjacent sites are assumed based on contours depicted on the United States Geological Survey topographic maps. PES assumes the subject property has been correctly and accurately identified by the Client, designated representative of the Client, site contact, subject property owner, and subject property owner's representatives.

Property conditions, as well as local, state, tribal and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and site conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the subject property. PES makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

Limitations

This investigation is site-specific in that it relates to assessment of environmental conditions on the specific subject parcel of commercial real estate. This assessment does not address many additional issues raised in transactions such as purchases of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other off-site environmental liabilities. As stipulated by the ASTM E-1527-13 Process, this ESA does not formally address certain non-scope issues including, but not limited to the following, unless otherwise noted in the body of the report:

- Asbestos-Containing Materials
- Biological Agents
- Cultural and Historic Resources
- Ecological Resources
- Endangered Species
- Regulatory Compliance (Health and Safety)
- Indoor Air Quality
- Industrial Hygiene
- Lead in Drinking Water
- Lead-based Paint
- Mold Growth in Structures
- Radon
- Wetlands

Reliance

The "Client" (and the "Relying Party", if relevant) as identified in the General Information section of this report may rely on the contents of the ESA subject to the limitations placed on the scope, nature and type of PES's services as stated in the ESA and subject to those Terms and Conditions as stated in PES's contract with the Client. The Client (and the "Relying Party", if relevant) is the only party to whom PES grants the right to rely upon the ESA. No other party may rely on the ESA unless the express written consent of PES is first obtained.

Acronyms

NFA: No Further Action Recommended.

BER: Business Environmental Risk, is defined as "a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated under ASTM standards. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations." Common non-scope environmental business risk items include but are not limited to: asbestos, biological agents, cultural and historic resources, ecological resources, endangered species, industrial hygiene health and safety, indoor air quality, lead paint, lead in drinking water, mold, radon, and wetlands. Environmental Risk is, by definition, very broad and can encompass many types of risk, not included in the above list. This PESA was performed recognizing that identification of all types of business environmental risk cannot reasonably be included in the study for practical reasons. As such, the contract-imposed limitations with regard to the

identification of business environmental risk. These contractual/client-imposed limitations have been identified in this report and the corresponding contract to perform this PESA.

REC: A Recognized Environmental Condition is the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: 1) due to release to the environment, 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment.” The terms, “migrate’ and “migration” refer to the movement of contamination (i.e. hazardous substances or petroleum products) in any form including solid and liquid at the surface or subsurface and vapor in the subsurface. For the purposes of this report, the identification of RECs includes potential Vapor Encroachment Conditions (VECs) in the subsurface as described in ASTM Guide E2600-10 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*. In the process of performing a PESA, the ability to identify VECs is limited due to the technical challenges associated with identification and evaluation of potential vapor intrusion risk.

HREC: Historic Recognized Environmental Condition is “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).” This includes a past release that has been remediated to below “residential” standards and given regulatory closure with no use restrictions. The HREC category is distinct from the Controlled Recognized Environmental Condition (CREC), which applies to sites that have received regulatory closure but are still subject to controls.

CREC: Controlled Recognized Environmental Condition is “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).”

The CREC concept was introduced to address contaminated sites that have received risk-based regulatory closure and where no further remediation is required. However, residual contamination is still documented at a site and the risk the contamination poses to future site occupants is managed through regulated engineering controls and/or Land Use restrictions (LURs). The associated regulatory requirements often pose ongoing or future obligations on the owner (such as special precautions during construction or grading activities). The CREC, is a subset of the REC category and is intended to clarify the level of risk these sites represent. Note that identification of a CREC does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented. If CREC(s) are identified during the PESA, they will be listed in the Findings section of the report and as an REC in the Conclusions Section.

APPENDIX B

SITE PHOTOGRAPHS



#1 – Subject Site on Right, Facing North up Hwy. 87



#2 – Subject Site on Left, Facing South down Hwy. 87



#3 – Property Boundary Marker, NW Corner



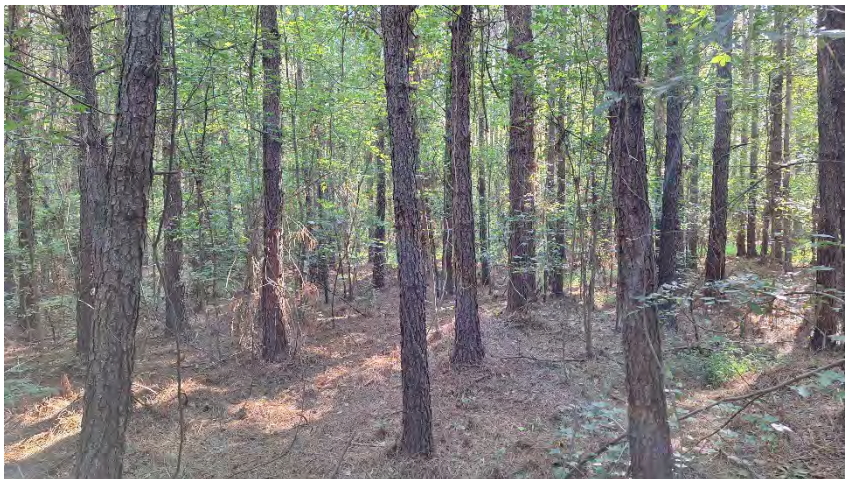
#4 – Typical Site Interior



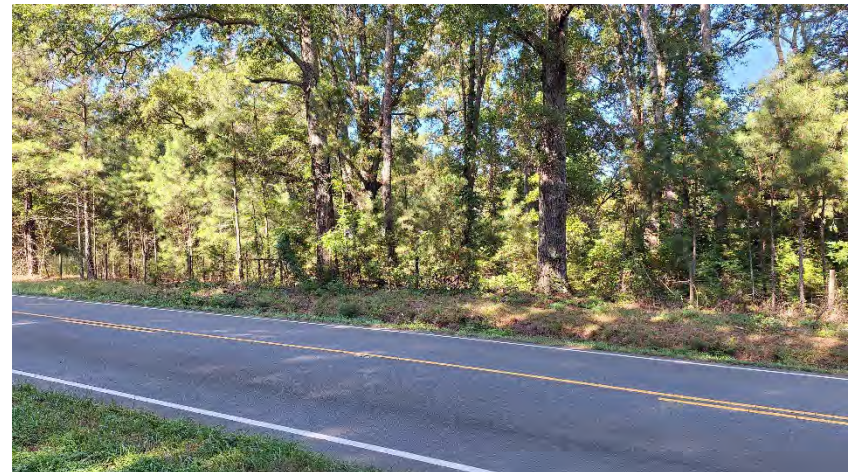
#5 – Typical Site Interior



#6 – Water-Supply Well for 7070 NC 87 Site



#7 – Typical Site Interior



#8 – Wooded Property Adjacent to the West



#9 – Adjoining 7070 NC Hwy 87 Site, Facing South



#10 – Castle Rock Farm Road Intersection with NC Hwy. 87



#11 – North Side of Mann Store Site, Facing East



#12 – Monitoring Well at Former Dispenser Island, Mann Store



#13 – Additional Monitoring Wells, South of Mann Store Site



#14 – Residence and WSW-8, South of Mann Store

#15 –

#16 –

APPENDIX C
CITY DIRECTORIES

Proposed DG Store

Not Reported
Pittsboro, NC 27312

Inquiry Number: 7739974.5
August 22, 2024

The EDR-City Directory Image Report

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

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

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

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

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2017	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2014	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2005	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1995	<input type="checkbox"/>	<input type="checkbox"/>	Cole Information
1992	<input type="checkbox"/>	<input type="checkbox"/>	Cole Information

FINDINGS

TARGET PROPERTY STREET

Not Reported
Pittsboro, NC 27312

No Addresses Found

FINDINGS

CROSS STREETS

Year CD Image Source

NC HIGHWAY 87 N

2020	pg. A2	EDR Digital Archive	
2017	pg. A8	Cole Information	
2014	pg. A9	Cole Information	
2010	pg. A13	Cole Information	
2005	pg. A17	Cole Information	
2000	pg. A21	Cole Information	
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source

City Directory Images

NC HIGHWAY 87 N

2020

136	LORETTA NEELY
148	ABRAHAM TUTTLE
	CAROL KLEVAY
	FORREST TUTTLE
170	MARGARET BYELICK
	NATHAN BYELICK
180	DEMOND HARRIS
	JAMILLA ALSTON
	PHYLLIS LEAK
365	FAYE TILLMAN
	LARRY ROSS
	LINDSAY HICKLING
	LINDSEY PARSON
	LIZ LAHTI
	RAMONA HILL
374	JANICE BRITSON
412	CHRISTINE MAURER
	STEVEN CORY
421	RAYMOND WATTS
	STORMI JARMON
425	ALAN CUNNINGHAM
	JONATHAN MC GEE
	MICHELLE CUNNINGHAM
434	PAIGE ROBINSON
464	ALFRED UHLMANN
	GRANT WHITAKER
	KATHLEEN UHLMANN
	STEPHEN EVANS
	TYLER WHITAKER
485	CRAIG KANE
	JOHNATHAN VANFAUSSIEN
488	PETER WASKO
515	MARY SHEPPARD
543	LINDA BLAND
564	EMILY FOUSHEE
582	BRIAN CARR
605	DORA FRIEDMAN
	MICHAEL YINGLING
626	CORBIE HILL
	RACHEL HILL
676	ANDREW ROSS
	RONNIE ROSS
696	GABRIEL NICOLAU
	LIONEL NICOLAU
	MINA NICOLAU
	ROBERT WAIWAI
734	JAY BEAVER
	JESSE BEAVER
	JUDY BEAVER
765	JUAN MARIN

NC HIGHWAY 87 N

2020

(Cont'd)

765	WALTER CAVINESS
821	CAROLYN ESSLINGER
868	JACQUELINE STPE JOAN ST. PE
875	CARMEN MOA-RIVERA
926	LAUREN HAYES LAUREN WOMACK
988	FREDERICK STAGG
1003	JOHN COOPER KURT WORMSBECHER
1033	MACK THORPE PAM THORPE
1103	HERBERT RECORE
1149	SERGEI JOHNSON
1166	MICHAEL DUBEAU ROBIN DUBEAU
1171	BRICE BRIAN CHERYL BRICE JOHN BRICE
1190	BARBARA EESLEY GARY EESLEY
1195	EMILY FOUSHEE
1290	MICHAEL BRYAN PATSY BRYAN
1291	MARGARET CONDON MARJORIE NEUMANN
1352	ANITA MUEHLBACH BRIAN THOMAS JAKE MUEHLBACH JAMES MUEHLBACH MARGARET TORBERT
1412	CYNTHIA BOULDIN JAMES BOULDIN
1532	LORRIE WELSH
1588	CHARLES SHIELDS
2419	WILLIAM BURKE
2492	DOROTHY WHITAKER
2531	DEMETRIX ALLEN ERNESTINE ALLEN KANDEIA ALLEN
2580	ALICE ELKINS CLYDE ELKINS WILLIAM ELKINS
2582	CAROLYN WHITAKER
2654	ELIZABETH JUSTICE JERRY JUSTICE
2916	LISA PERRY MICHAEL PERRY
2918	CHRISTOPHER PERRY ELAINE PERRY

NC HIGHWAY 87 N

2020

(Cont'd)

2994	BRUCE MARTINDALE
3038	LISA PERRY
	MICHAEL PERRY
3072	ASHLEY PERRY
	WESLEY COOLEY
3164	CRYSTAL LONG
	LISA HILL
	MICHAEL JOHNSON
	NORMAN HILL
3191	ETHEL MILLIKEN
	HATTIE MILLIKEN
	WYOMIE MILLIKEN
3231	ALLIE BURNETT
	CLYDE BROOKS
	MABEL BROOKS
3357	GEORGE LEE
	INGRID CAMPBELL
	MARCIA LEE
	ROSELIN LEE
3469	EUPHALIA FARRAR
	JIMMY FARRAR
	RUFUS HORTON
3511	ERIK FARRAR
	JAMES FARRAR
	RICHARD HORTON
	WILEEN FARRAR
3518	CLARENCE JOHNSON
	MOLLIE JOHNSON
3603	JEAN BOGGESS
	JOHN BOGGESS
	KEIFER BOGGESS
3643	AARON JORDAN
	MICHAEL JORDAN
3692	DONALD ELLIS
	SAMANTHA ELLIS
	TAMMY ELLIS
3699	DANIEL GLOSSON
	FRED PUGH
3730	BOBBY CRAWLEY
	DANIEL GLOSSON
	WANDA CRAWLEY
4034	JONATHAN LORBACHER
	KARAH LORBACHER
	KERRI ROGERS
4051	DARRELL ROBERSON
4095	CARL RENZ
4195	JOHN EAKES
	TAMMY EAKES
4263	DARA JACOB
4265	KRISTEN TILLMAN

NC HIGHWAY 87 N

2020

(Cont'd)

4276	NICHOLAS JOHNSON ROBERT JOHNSON SHON JOHNSON
4280	JOHNSON JOHN
4414	NICHOLAS HOLLAND STEPHEN BOYTE
4453	DELLA HOLLAND
4455	JACQUELINE CONDREY KIRBY CONDREY STEVE ROSE
4501	BONNIE KIDD JACOB KIDD
4546	BOBBY HOLT DONNA HOLT
4548	CIARA HOLT LISA HOLT VAN HOLT
4626	THERESE LUTTERLOH
4713	LAURA FAIRCLOTH
4774	RICHARD BARBER
4864	JOHN MARSH
4874	MILLARD RODGERS
4914	MARVIN CHALMERS
4947	JAMES CHALMERS
4969	NORRIS LEE
5001	ERIKA ALSTON JARED RICHMOND
5058	DELORES FERGUSON ELIZABETH WEATHERSPOON OLGA PEREZ
5154	RHONDA SEABROOK RHONDA SLOAT
5280	THOMAS NAIL
5291	GERALD SMITH
5332	BARBARA PUGH
5345	KATHERINE SMITH
5429	CHASE GIBSON
5430	JO HILL
5455	KAREN SIRLS KAREN WEBSTER LAWRENCE WEBSTER
5457	STACEY JACKSON
5475	BRITTANY KIDD LYANNE SPANGLER PHYLLIS SPANGLER
5684	ASHLEY BEAL
5821	MICHAEL KIDD
5916	ASHLEY NUNN CHARLES NUNN RHONDA NUNN

NC HIGHWAY 87 N

2020

(Cont'd)

5934	JUSTIN LINDLEY MARLA LINDLEY SHERRILL LINDLEY
6155	KEVIN FUTRELL
6475	JANET MOXLEY
6545	BEVERLY NEELEY DIANA DODGE RONALD NEELEY SCOTT SCHULTZ
6941	CODY CHRISTIE SHEILA PENDERGRASS
6989	AUTUMN FOGLEMAN CAROLINE FOGLEMAN JAMES FOGLEMAN SUMMER FOGLEMAN TOMMY FOGLEMAN
7042	DYLAN LOWE JESSICA WIMBERLY TRENTON HARRIS TYLER LOWE
7192	JANICE JOHNSON
7236	DAVID DOMINGUEZ KELLY DOMINGUEZ LENORE BRAFORD PAUL DRAKE
7239	DAWN SAUNDERS RUTH WATKINS
7267	JEAN STUBBS
7393	MELISSA MANN
7432	DAVID MINOR SANDA MINOR
7610	FREDERICK DICKMAN
7690	B GRANGER BRUCE GRANGER JILL MARTIN LYDIA GRANGER MIRIAM GRANGER SUSANNA GRANGER
8394	ELAYNE PRETE ELIJAH KIRBY ELIZABETH PRETE EVELYN PRETE JOSEPH PRETE
8485	ADAM THOMAS BEVERLY THOMAS GREGG THOMAS
8524	DEAN MOSER LEIGH MOSER
8847	GLENETTE VAUGHN RONALD VAUGHN

NC HIGHWAY 87 N

2020

(Cont'd)

9402	BETTY TALLMAN
	RONALD LILLY
	STEPHANIE LILLY
	TRAVIS LILLY
9435	DAWN GLOSSON
	PATRICIA GLOSSON
9474	CATHERINE MCDIARMID
	GRACE MCDIARMID
	JAMES MCDIARMID
	KIMMEL MCDIARMID
	MADISON MCDIARMID
	MATTHEW MCDIARMID
9680	JOHNNY GLOSSON
9961	ESTHER LINDBLAD
	JEFF GIBISCH
	LANA BRADLEY
	MICHAEL LENCZNER
	REGULA FREI
9998	MARK METCALF

NC HIGHWAY 87 N

2017

170	THE GARDEN PLACE
365	CHATHAM COUNTY COUNCIL ON AGING HILL HOUSE SENIOR CENTER
3692	ELLIS DISPOSAL LLC
4548	HOLTS FLOOR SANDING INC
7610	NORTHWIND PAINTING CO

NC HIGHWAY 87 N

2014

136 NEELY, LORETTA H
 180 HARRIS, THOMAS
 365 CHATHAM COUNTY COUNCIL ON AGING
 HILL HOUSE SENIOR CENTER
 374 BRITSON, ROBERT D
 412 MAURER, CHRISTINE C
 421 DASHNAW, DANIEL R
 425 CUNNINGHAM, ALAN J
 434 HARWARD, LOUISE A
 485 KANE, CRAIG J
 488 WASKO, EDITH C
 515 SHEPPARD, JEFFREY F
 536 SHAW, BRIAN K
 543 BLAND, LINDA S
 575 WILLIAMS, ALMA L
 582 CARR, BRIAN A
 605 FRIEDMAN, DORA
 626 HILL, CORBIE J
 676 ROSS, JOHN A
 687 TORBERT, REBA W
 696 WIELAND, DOUGLAS J
 734 BEAVER, JESSE C
 765 CAVINESS, WALTER C
 821 VAUGHN, DORIA M
 842 METTER, ALAN
 868 JACQUES, ROBERT S
 875 OCCUPANT UNKNOWN,
 926 MONTGOMERY, HUGH R
 929 BRADLEY, RICHARD D
 947 COOPER, MARY C
 988 STAGG, FRED
 1003 COOPER, JOHN S
 1033 NUTILE, ALBERTA A
 1103 RECORE, HERBERT A
 1149 JOHNSON, TODD F
 1166 DUBEAU, MICHAEL E
 1171 BRICE, JOHN P
 1190 OCCUPANT UNKNOWN,
 1195 FOUSHEE, FRANK T
 1228 WARFFORD, LINDA T
 1231 COOPER, DAVID
 1291 SHEETS, ELIJAH M
 1352 MUEHLBACH, JAMES
 1412 BOULDIN, JAMES A
 1456 BROOKS, JUDITH M
 1532 WELSH, LORRIE L
 1588 DEMARE-STIVERS, MARY C
 1654 MURRAY-LICHTMAN, SAMUEL N
 1714 RONE, WANDA Y
 1716 ATKINSON, THOMAS M

NC HIGHWAY 87 N

2014

(Cont'd)

1927	MEGGINSON, KEITH
2356	HADLEY, ISAIAH
2374	STONE, BRIGAL
2384	FARRAR, KELVIN L
2397	BROOKS, BEN
2419	BURKE, WILLIAM K
2478	OCCUPANT UNKNOWN,
2492	WHITAKER, TIMOTHY E
2531	ALLEN, PIERRE L
2565	ANDRUF, REGINALD
2580	ELKINS, WILLIAM C
2621	OCCUPANT UNKNOWN,
2654	JUSTICE, JERRY R
2695	PERRY, KATHERINE J
2827	LAMBETH, CONNIE
2916	OCCUPANT UNKNOWN,
2918	OCCUPANT UNKNOWN,
2994	MARTINDALE, BRUCE L
3164	LONG, STACY S
3191	MILLIKEN, KEVIN C
3231	BROOKS, CLYDE
3252	JOHNSON, JACK
3312	OCCUPANT UNKNOWN,
3357	LEE, GEORGE W
3469	FARRAR, JIMMY G
3518	JOHNSON, CLARENCE H
3603	OCCUPANT UNKNOWN,
3643	JORDAN, MICHAEL M
3692	ELLIS DISPOSAL LLC
	ELLIS, DONALD W
3730	CRAWLEY, BOBBY J
3986	LUTTERLOH, CHARLES S
3990	OCCUPANT UNKNOWN,
4034	LORBACHER, KARAH
4095	RENZ, CARL E
4121	MERRITT, BILLY C
4188	WILSON, SONJA M
4249	OCCUPANT UNKNOWN,
4263	JACOB, DARA E
4265	SUGIYAMA, DYLAN
4276	OCCUPANT UNKNOWN,
4280	JOHNSON, JOHN R
4414	OCCUPANT UNKNOWN,
4453	HOLLAND, NICHOLAS V
4455	CONDREY, KEVIN B
4501	KIDD, BONNIE G
4546	HOLT, BOBBY K
4548	HOLT, VAN J
	HOLTS FLOOR SANDING INC
4626	LUTTERLOH, WILBER W

NC HIGHWAY 87 N

2014

(Cont'd)

4713	OCCUPANT UNKNOWN,
4864	MARSH, JOHN H
4874	RODGERS, WILLIE D
4914	OCCUPANT UNKNOWN,
4947	CHALMERS, MARVIN T
4969	LEE, NORRIS V
5001	ALSTON, WILLIAM E
5058	FERGUSON, DELORES J
5154	STROWD, ROBERT C
5280	SPINKS, CHRISTOPHER L
5291	SMITH, GERALD R
5332	PUGH, BARBARA C
5345	PASCONE, CHANNING
5429	OCCUPANT UNKNOWN,
5430	BARNES, WILLIAM H
5455	WEBSTER, LAWRENCE A
5457	JACKSON, ARRON
5475	SPANGLER, PHILLIP L
5534	OCCUPANT UNKNOWN,
5560	OCCUPANT UNKNOWN,
5684	BEAL, DOUGG R
5759	LOVE, K G
5821	KIDD, MICHAEL T
5916	NUNN, CHARLES E
5934	LINDLEY, JUSTIN M
6127	TAMULEVICZ, WILLIAM
6155	OCCUPANT UNKNOWN,
6475	MOXLEY, JANET B
6545	SCHULTZ, SCOTT H
6941	FOGELMAN, TOMMY
6989	OCCUPANT UNKNOWN,
7042	WIMBERLY, JESSICA R
7080	OCCUPANT UNKNOWN,
7118	OCCUPANT UNKNOWN,
7162	OCCUPANT UNKNOWN,
7236	DOMINGUEZ, DAVID K
7239	WATKINS, TED J
7267	STUBBS, DONALD W
7393	MANN, MELISSA L
7432	MINOR, DAVID R
7610	DICKMAN, FREDERICK N NORTHWIND PAINTING CO
7690	GRANGER, BRUCE T
8394	OCCUPANT UNKNOWN,
8485	THOMAS, HERBERT G
8524	MOSER, DEAN B
8743	OCCUPANT UNKNOWN,
8847	VAUGHN, RONALD E
9402	AUDUBON TREE SERVICES INC MCDIARMID, JAMES L

Target Street

Cross Street

Source

-

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Cole Information

NC HIGHWAY 87 N

2014

(Cont'd)

9402 OCCUPANT UNKNOWN,
WOFFORD, TRAVIS O
9435 OCCUPANT UNKNOWN,
9680 GLOSSON, JOHNNY S
9925 OCCUPANT UNKNOWN,
9998 METCALF, GEORGE H

NC HIGHWAY 87 N 2010

148	WHITE, CAROL B
170	GARDEN PLACE
180	LEAK, PHYLLIS
374	BRITSON, ROBERT D
412	OCCUPANT UNKNOWN,
421	DEESE, JAMES O
425	CUNNINGHAM, ALAN J
434	HARWARD, LOUISE A
464	LORBACHER, JOHNNIE A
488	WASKO, EDITH C
515	SHEPPARD, JEFFREY F
536	SHAW, COLON L
543	BLAND, LINDA S
564	AHIHETRA LIFTING SYSTEMS OCCUPANT UNKNOWN,
575	WILLIAMS, ALMA L
582	ROBERTS, DAVE
605	FRIEDMAN, DORA
626	HILL, CORBIE J
649	PERRY, HERBERT T
676	ROSS, JOHN A
687	TORBERT, REBA W
696	JOHNSTON, DONNA C
734	BEAVER, JAY C
765	CAVINESS, WALTER C
842	METTER, ALAN
868	JACQUES, ROBERT S
875	SHUEY, KEVIN A
926	MONTGOMERY, HUGH R
929	BRADLEY, RICHARD H
947	COOPER, MARY C
988	OCCUPANT UNKNOWN,
1003	COOPER, JOHN S
1033	REZEN, JOHN K
1057	HARRISON, SUSAN N
1103	RECORE, HERBERT A
1149	JOHNSON, TODD F
1166	DUBEAU, MICHAEL E
1171	BRICE SERVICES CORP BRICE, JOHN P
1195	FOUSHEE, MATTHEW W
1228	WARFFORD, LINDA T
1291	LINDSEY, CLEATON M
1352	OCCUPANT UNKNOWN,
1412	BOULDIN, JAMES A
1456	BROOKS, J
1588	DEMARE-STIVERS, MARY D
1654	MURRAY-LICHTMAN, SAMUEL N
1704	ROBERSON, ALLEN H
1927	MEGGINSON, KEITH

NC HIGHWAY 87 N

2010

(Cont'd)

2241	BURGESS, BRANDON
2356	HADLEY, ISAIAH
2374	STONE, BRIGAL
2397	BROOKS, CATHERINE J
2419	BURKE, HAZEL H
2478	OCCUPANT UNKNOWN,
2492	OCCUPANT UNKNOWN,
2531	BROOKS, KIRSTIE
2565	ANDRUF, REGINALD
2580	ELKINS, WILLIAM C
2582	WHITAKER, CAROLYN D
2621	OCCUPANT UNKNOWN,
2654	JUSTICE, JERRY R
2695	PERRY, KATHERINE J
2722	GREEN, LARRY L
2836	EUBANKS, PAMELA G
2916	BROWN, HAZEL
2918	OCCUPANT UNKNOWN,
2994	OCCUPANT UNKNOWN,
3164	LONG, STACY S
3191	MILLIKEN, KEVIN C
3231	BROOKS, CLYDE
3252	JOHNSON, JANICE W
3312	KINTON, RHONDA
3357	LEE, GEORGE W
3469	OCCUPANT UNKNOWN,
3511	FARRAR, ERIK
3518	JOHNSON, CLARENCE H
3603	OCCUPANT UNKNOWN,
3643	OCCUPANT UNKNOWN,
3692	DONS DISPOSAL
	ELLIS, DONALD W
3699	PUGH, ANDREW C
3730	CRAWLEY, BOBBY J
3986	LUTTERLOH, CHARLES S
3990	FROST, ASHLEY
4034	LUTTERLOH, CHARLES W
4121	MERRITT, BILLY C
4188	WILSON, SONJA M
4249	OCCUPANT UNKNOWN,
4263	JACOB, DARA E
4265	SUGIYAMA, DYLAN
4280	JOHNSON, JOHN R
4414	WALSH, BRIAN
4453	HOLLAND, MARTIN A
4455	CONDREY, KEVIN B
4501	KIDD, DARRELL L
4546	HOLT, BOBBY K
4548	HOLTS FLOOR REFINISHING
4626	LUTTERLOH, THERESE R

NC HIGHWAY 87 N

2010

(Cont'd)

4713	OCCUPANT UNKNOWN,
4774	HODGIN, BILLY
4864	MARSH, JOHN H
4874	RODGERS, WILLIE D
4914	OCCUPANT UNKNOWN,
4947	CHALMERS, JAMES P
4969	LEE, NORRIS V
5001	ALSTON, WILLIAM E
5154	STROWD, ROBERT C
5291	SMITH, GERALD R
5332	PUGH, FRED
5345	OCCUPANT UNKNOWN,
5429	OCCUPANT UNKNOWN,
5430	PRATT, WILLIAM G
5455	OCCUPANT UNKNOWN,
5457	JACKSON, ARRON
5475	SPANGLER, LYANNE S
5534	OCCUPANT UNKNOWN,
5560	OCCUPANT UNKNOWN,
5684	BEAL, DOUG
5759	LOVE, CHARLES M
5821	GAMBOS, CHRIS E
5916	NUNN, CHARLES E
5934	LINDLEY, SHERRILL F
6127	TAMULEVICZ, WILLIAM
6155	SHUSKEY, GERALDINE P
6301	HIPPLE, ROY G
6475	MOXLEY, JANET B
6545	SCHULTZ, SCOTT H
6941	FOGLEMEN, SHEILA N
6989	FOGELMAN, TOMMY
7042	OCCUPANT UNKNOWN,
7080	OCCUPANT UNKNOWN,
7118	OCCUPANT UNKNOWN,
7162	OCCUPANT UNKNOWN,
7192	JOHNSON, JR
7236	DAVID DOMINGUEZ PSY NP
	DOMINGUEZ, DAVID K
7239	OCCUPANT UNKNOWN,
7267	STUBBS, DONALD W
7393	MANN, LEE N
7432	MINOR, DAVID R
7610	DICKMAN, FREDERICK N
7690	GRANGER, BRUCE T
8394	MCDANIEL, CLIFTON R
8485	THOMAS, HERBERT G
8524	MOSER, DEAN B
8743	OCCUPANT UNKNOWN,
9402	OCCUPANT UNKNOWN,
	POTTS, JEFFREY W

Target Street

Cross Street

Source

-

✓

Cole Information

NC HIGHWAY 87 N

2010

(Cont'd)

9474	MCDIARMID, MATTHEW J
9680	GLOSSON, JOHNNY S
9961	OCCUPANT UNKNOWN,
9998	METCALF, GEORGE H

NC HIGHWAY 87 N

2005

180 OCCUPANT UNKNOWN,
 365 CHATHAM COUNTY COUNCIL OF AGING
 374 BRITSON, ROBERT D
 377 KEARNS, BRENDAN
 415 OCCUPANT UNKNOWN,
 421 DEESE, JAMES O
 425 CUNNINGHAM, ALAN
 434 HARWARD, LOUISE A
 464 LORBACHER, JOHNNIE A
 485 MAYNARD, KITTY
 488 WASKO, EDITH C
 515 OCCUPANT UNKNOWN,
 536 SHAW, COLON L
 543 BLAND, LINDA S
 564 FOUSHEE, MATTHEW W
 575 OCCUPANT UNKNOWN,
 605 OCCUPANT UNKNOWN,
 626 ROBERTS, R L
 676 ROSS, JOHN A
 687 TORBERT, REBA W
 696 GILMORE, WARD
 734 BARACHEL INC
 JAYS HYDRAULIC SERVICE INC
 OCCUPANT UNKNOWN,
 756 CAVINESS, CRAIG
 765 SIERRA, JACOB
 804 ARTHURS, JOHN W
 842 METTER, ALAN
 868 JACQUES, ROBERT S
 923 MCNEILL, TERRY
 929 BRADLEY, RICHARD H
 947 COOPER, MARY C
 988 SANDERS, MICHAEL
 1003 COOPER, JOHN S
 1033 WEBSTER, KELLY P
 1057 HARRISON, SUSAN M
 1103 RECORE, HERB A
 1149 JOHNSON, TODD F
 1166 MOORE, MALCOLM
 1171 BRICE SERVICES CORP
 BRICE, JOHN P
 1190 JOHNSON, TOMMY
 1195 CONRAD, ALLEN F
 1228 WARFFORD, REUBEN B
 1291 LINDSEY, CLEATON M
 1352 GRIFFIN, MARGARET
 1412 BOULDIN, JAMES E
 1532 WILLIAMS, BOBBY
 1588 QUINN, JERRY W
 1704 ROBERSON, ALLEN H

NC HIGHWAY 87 N

2005

(Cont'd)

1716	ATKINSON, DONALD M
1927	MEGGINSON, KEITH
2241	BURGESS, WILLIE E
2356	HADLEY, ISAIAH
2374	STONE, BRIGAL
2397	BROOKS, BEN
2419	BURKE, KENNETH I
2478	WHITAKER, DOROTHY
2492	OCCUPANT UNKNOWN,
2515	NEFF, ROBERT A
2531	THOMAS, M
2565	ANDERS, REGGIE
2580	ELKINS, CLYDE
2621	OCCUPANT UNKNOWN,
2654	JUSTICE, JERRY R
2695	PERRY, KATHERIN C
2722	GREEN, LARRY L
2725	WILLIAMS, JACKIE
2836	EUBANKS, PAMELA E
2916	BROWN, HAZEL
2918	OCCUPANT UNKNOWN,
2994	OCCUPANT UNKNOWN,
3164	LONG, STACY S
3191	MILLIKEN, KEVIN C
3231	BROOKS, CLYDE
3252	JOHNSON, JACK
3312	OURS, CRYSTAL
3357	LEE, GEORGE W
3469	FARRAR, JIMMY G
3518	JOHNSON, CLARENCE
3603	ALSTON, EMMA L
3692	ELLIS, DONALD W
3699	PUGH, ANDY
3730	EUBANKS, LEONARD T
3986	LUTTERLOH, CHARLES S
3990	LUTTERLOH, CHARLES
4034	LUTTERLOH, CHARLES W
4095	SMITH, RENEE
4121	MERRITT, BILLY C
4188	WILSON, SONJA M
4249	OCCUPANT UNKNOWN,
4263	JACOB, DARA E
4265	MILLER, MIKE T
4276	JOHNSON, SHON
4280	JOHNSON, JOHN R
4414	HOLLAND, DELLA R
4453	CONDREY, KEVIN B
4501	KIDD GRADING
	KIDD, BONNIE G
4548	HOLT, LISA

NC HIGHWAY 87 N

2005

(Cont'd)

4626 LUTTERLOH, WILBER
 4774 HODGIN, BILLY
 4864 MARSH, JOHN H
 4874 RODGERS, WILLIE D
 4914 OCCUPANT UNKNOWN,
 4947 CHALMERS, JAMES P
 4969 DEGRAFFENREIDT, LUCILLE
 5001 ALSTON, WILLIAM E
 5154 STROWD, ROBERT C
 5280 SMITH, MICHAEL R
 5291 SMITH, GERALD R
 5332 CEDAR BRAKES SHEEP & LAMB
 PUGH, FRED
 5345 BRYARLEY, NATHAN
 5429 SIRLS, CHARLES D
 5430 PRATT, WILLIAM G
 5455 SIRLS, JODIE A
 5457 JACKSON, ARRON
 5475 SPANGLER, LYANNE
 5534 OCCUPANT UNKNOWN,
 5560 HENDERSON, WALTER
 5759 LOVE, K G
 5821 JOHNSON, KEVIN
 5863 LEIGHT, EDWIN M
 5865 DELP, MARK A
 5867 SCOTT, ROBERT W
 5916 NUNN, CHARLES E
 5934 LINDLEY, SHERRILL F
 6127 TAMULEVICZ, WILLIAM
 6301 HIPPLE, ROY G
 6475 MOXLEY, JANET B
 6545 NEELEY, RONALD L
 6941 FOGLEMAN, SHEILA N
 6989 FOGELMAN, TOMMY
 7042 OCCUPANT UNKNOWN,
 7080 OCCUPANT UNKNOWN,
 7118 OCCUPANT UNKNOWN,
 7162 OCCUPANT UNKNOWN,
 7192 JOHNSON, SUSAN H
 7236 OCCUPANT UNKNOWN,
 7239 OCCUPANT UNKNOWN,
 7267 STUBBS, DONALD W
 7393 MANN, LEE N
 7432 MINOR, DAVID R
 7610 DICKMAN, NORTON
 7690 GRANGER, BRUCE T
 8394 OCCUPANT UNKNOWN,
 8485 THOMAS, GREGG
 8524 MOSER, DEAN B
 8743 MANN, GLENN W

NC HIGHWAY 87 N

2005

(Cont'd)

8890	GLOSSON, BOBBY E
9402	AUDUBON TREE SERVICE INC OCCUPANT UNKNOWN, WOFFORD, TRAVIS O
9435	GLOSSON, CHARLES F
9474	OCCUPANT UNKNOWN,
9680	GLOSSON, PATRICIA D
9925	THOMAS, HERBERT
9961	OCCUPANT UNKNOWN,
9998	METCALF, GEORGE H

NC HIGHWAY 87 N

2000

365	CHATHAM COUNTY COUNCIL ON AGING HILL HOUSE SENIOR CENTER
377	KEARNS, BRENDAN
425	HRABAK, DONALD L
464	LORBACHER, J A
485	REAVIS, J G
543	BLAND, L S
564	JOHANSSON CHARITY
582	ROBERTS, DAVE
605	LEFTWICH, BRYAN E
626	ROBERTS, R L
676	ROSS, JOHN A
687	TORBERT, JOE T
734	BEAVER, JAY
842	METTER, ALAN
868	JACQUES ROBERT S DR JACQUES, ROBERT S
926	MONTGOMERY, HUGH
929	BRADLEY, RICHARD H
1057	HARRISON, PERRY
1166	MOORE, MALCOLM
1412	BOULDIN, JAMES
1456	BROOKS, J J
1704	ROBERSON, ALLEN
1927	MEGGINSON, KEITH
2241	BURGESS, WILLIE E
2356	HADLEY, ISAIAH
2397	BROOKS, BEN
2419	BURKE, KENNETH I
2531	NETTLES, LATANYA N TAYLOR, EDWARDS S
2654	JUSTICE, JERRY R
2695	HERNDON, JOHN J
2916	BROWN, HAZEL
2994	ROGERS, CHARLES
3164	LONG, S S
3231	BROOKS, CLYDE
3252	JOHNSON, JACK
3357	LEE, GEORGE W
3469	FARRAR, JIMMY
3518	JOHNSON, C
3699	THOMAS, R D
3984	FROST, ANDREW
3986	LUTTERLOH, CHARLES S
4034	LUTTERLOH, C W
4095	HACKNEY, TONY
4121	MERRITT, BILLY C
4123	LEE, LARRY
4125	BILLINGSLEY, KAREN
4154	THOMAS, RUSTY

NC HIGHWAY 87 N**2000****(Cont'd)**

4265	MOORE, BONNIE
4276	JOHNSON, SHON
4414	HOLLAND, DELLA R
4501	KIDD DARRELL GRADING KIDD, BONNIE
4548	HOLT, VAN
4626	LUTTERLOH, WILBER
4874	RODGERS, WILLIE D
5430	RODRIGUEZ, FELIPE
5475	KIDD, LYANNE
5534	ROSS, CHARLES J
5560	HENDERSON, WALTER
5759	LOVE, CHARLES M
5821	BRUNFIELD, KIM
5863	LEIGHT, M T
5934	LINDLEY, MARLA
6127	MAY, AARON J
6301	HIPPLE, ROY G
6303	BAMPTON, C L
6475	BEAMAN, CHARLES
6545	NEELEY, RONALD
6941	FOGLEMEN, SHEILA
7070	KENLAN JOSEPH STONEMASONRY LIMITED
7118	JOHNSON, LARRY
7192	JOHNSON, H S
7236	MOORE, FAY
7239	DAVIS, JESSICA
7393	MANN, LEE N
8485	THOMAS, GREGG
8524	MOSER, DEAN
8743	MANN, GLENN W
8892	HAYES, S
9402	AUDUBON TREE SERVICES INCORPORATED MCDIARMID, MATTHEW
9925	THOMAS, HERBERT
9998	METCALF, GEORGE H

APPENDIX D

AERIAL PHOTOGRAPHS



Proposed DG Store

Not Reported

Pittsboro, NC 27312

Inquiry Number: 7739974.8

August 21, 2024

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

08/21/24

Site Name:

Proposed DG Store
Not Reported
Pittsboro, NC 27312
EDR Inquiry # 7739974.8

Client Name:

Proctor Environmental Services, Inc.
5113 Yachtsman Court
Raleigh, NC 27615
Contact: Tom Proctor



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

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=500'	Acquisition Date: March 01, 1993	USGS/DOQQ
1983	1"=500'	Flight Date: March 02, 1983	NHAP
1973	1"=500'	Flight Date: March 23, 1973	USGS
1964	1"=500'	Flight Date: March 12, 1964	USGS
1961	1"=500'	Flight Date: September 07, 1961	USGS
1950	1"=500'	Flight Date: November 18, 1950	USGS
1939	1"=500'	Flight Date: February 16, 1939	USGS

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INQUIRY #: 7739974.8

YEAR: 2020

— = 500'



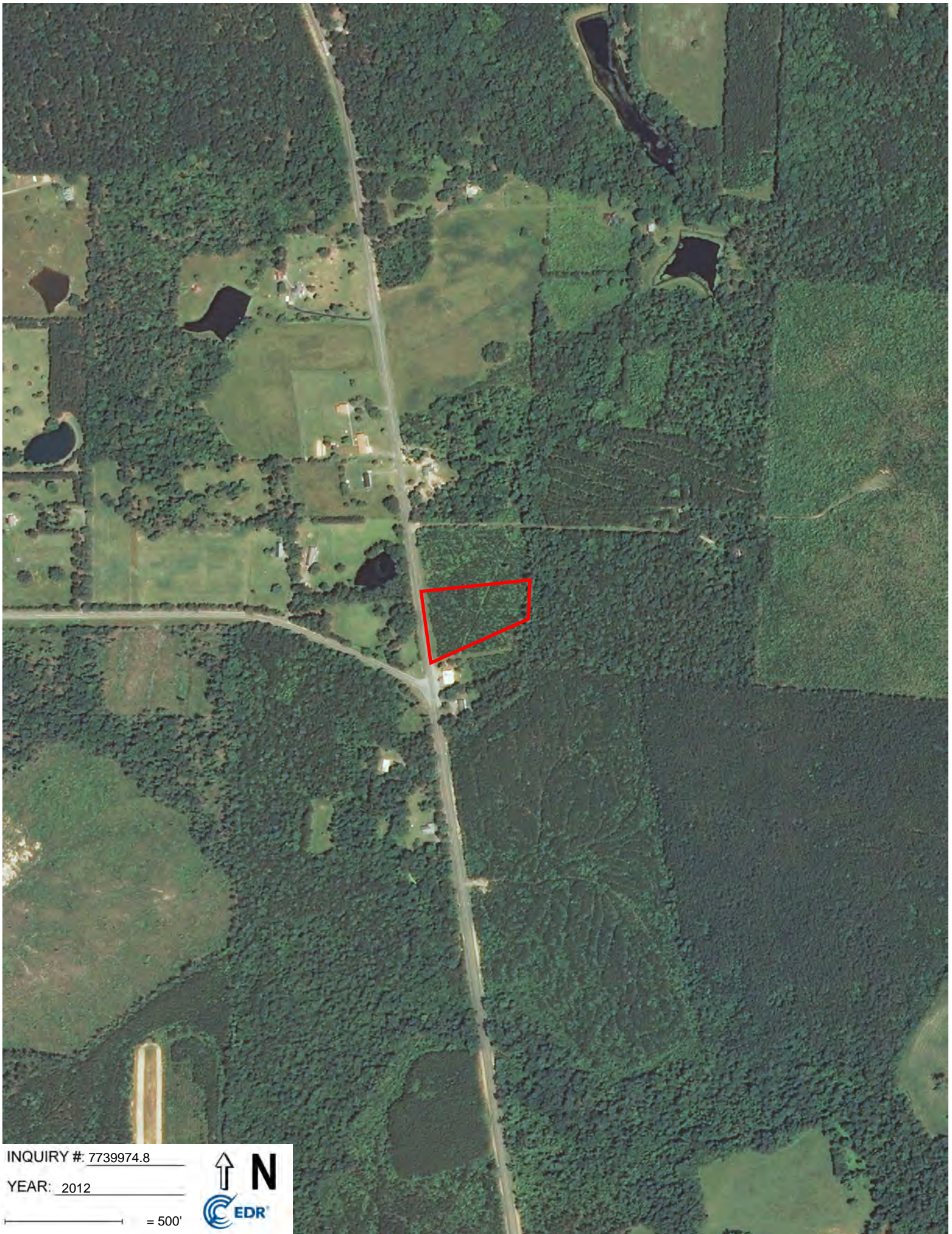


INQUIRY #: 7739974.8

YEAR: 2016

— = 500'





INQUIRY #: 7739974.8

YEAR: 2012

— = 500'



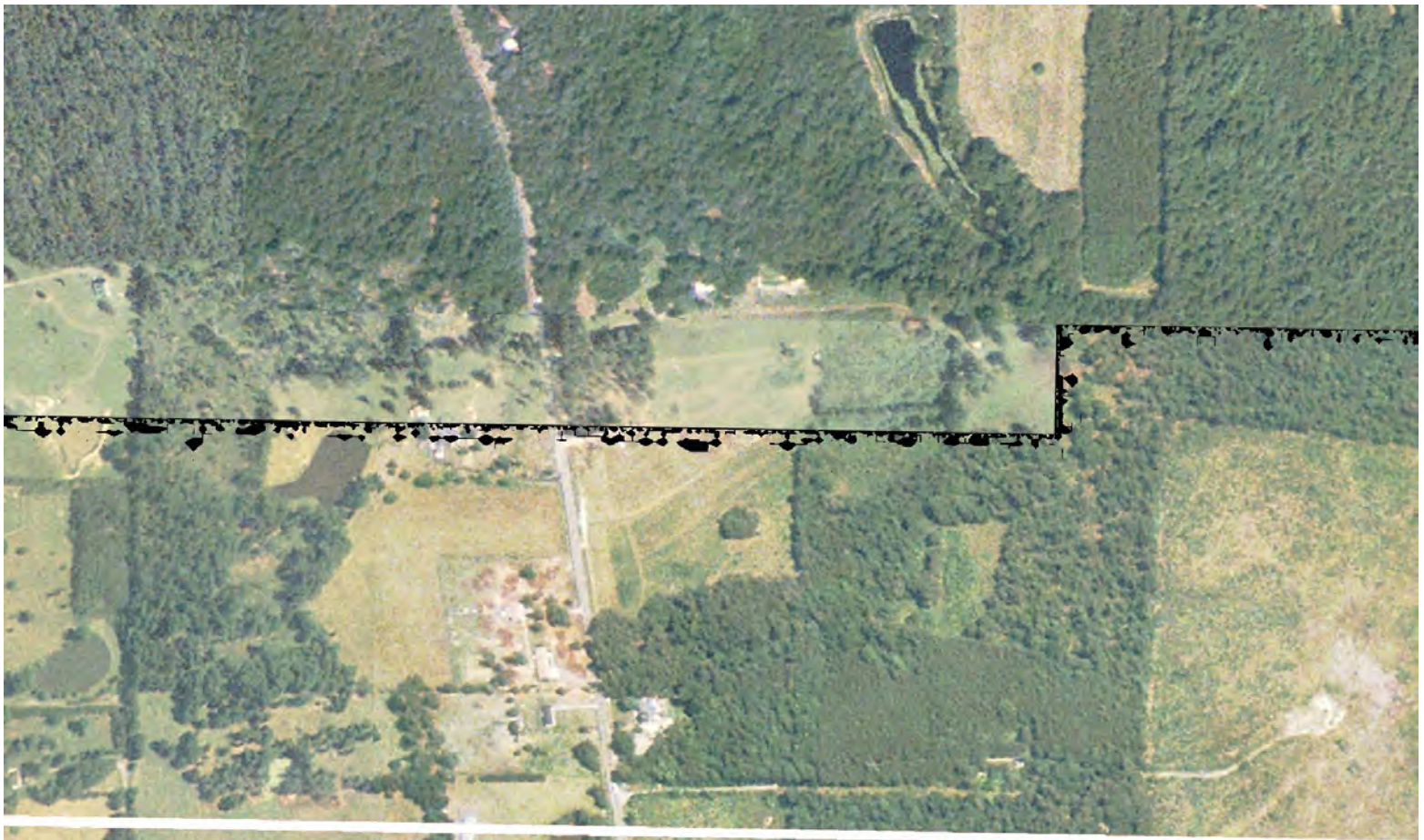


INQUIRY #: 7739974.8

YEAR: 2009

— = 500'





INQUIRY #: 7739974.8

YEAR: 2006

— = 500'





INQUIRY #: 7739974.8

YEAR: 1998

— = 500'





INQUIRY #: 7739974.8

YEAR: 1993

— = 500'





INQUIRY #: 7739974.8

YEAR: 1983

— = 500'





INQUIRY #: 7739974.8

YEAR: 1973

— = 500'





INQUIRY #: 7739974.8

YEAR: 1964

— = 500'





INQUIRY #: 7739974.8

YEAR: 1961

— = 500'





INQUIRY #: 7739974.8

YEAR: 1950

— = 500'





INQUIRY #: 7739974.8

YEAR: 1939

— = 500'



APPENDIX E

SANBORN MAPS

Proposed DG Store

Not Reported

Pittsboro, NC 27312

Inquiry Number: 7739974.3

August 19, 2024

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

08/19/24

Site Name:

Proposed DG Store
Not Reported
Pittsboro, NC 27312
EDR Inquiry # 7739974.3

Client Name:

Proctor Environmental Services, Inc.
5113 Yachtsman Court
Raleigh, NC 27615
Contact: Tom Proctor



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Certified Sanborn Results:

Certification # 24FF-4760-A126
PO # R528
Project Proposed DG Store

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 24FF-4760-A126

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

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

The Sanborn Library LLC Since 1866™

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APPENDIX F

TOPOGRAPHIC MAPS

Proposed DG Store

Not Reported

Pittsboro, NC 27312

Inquiry Number: 7739974.4

August 19, 2024

EDR Historical Topo Map Report

with QuadMatch™



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

EDR Historical Topo Map Report

08/19/24

Site Name:

Proposed DG Store
Not Reported
Pittsboro, NC 27312
EDR Inquiry # 7739974.4

Client Name:

Proctor Environmental Services, Inc.
5113 Yachtsman Court
Raleigh, NC 27615
Contact: Tom Proctor



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

Search Results:**Coordinates:**

P.O.#	R528	Latitude:	35.804876 35° 48' 18" North
Project:	Proposed DG Store	Longitude:	-79.250162 -79° 15' 1" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	658104.15
		UTM Y Meters:	3963719.38
		Elevation:	561.57' above sea level

Maps Provided:

2022
2019
2016
2013
1974
1968

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Topo Sheet Key

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

2022 Source Sheets



Silk Hope
2022
7.5-minute, 24000



Bynum
2022
7.5-minute, 24000

2019 Source Sheets



Silk Hope
2019
7.5-minute, 24000



Bynum
2019
7.5-minute, 24000

2016 Source Sheets



Silk Hope
2016
7.5-minute, 24000



Bynum
2016
7.5-minute, 24000

2013 Source Sheets



Silk Hope
2013
7.5-minute, 24000



Bynum
2013
7.5-minute, 24000

Topo Sheet Key

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

1974 Source Sheets

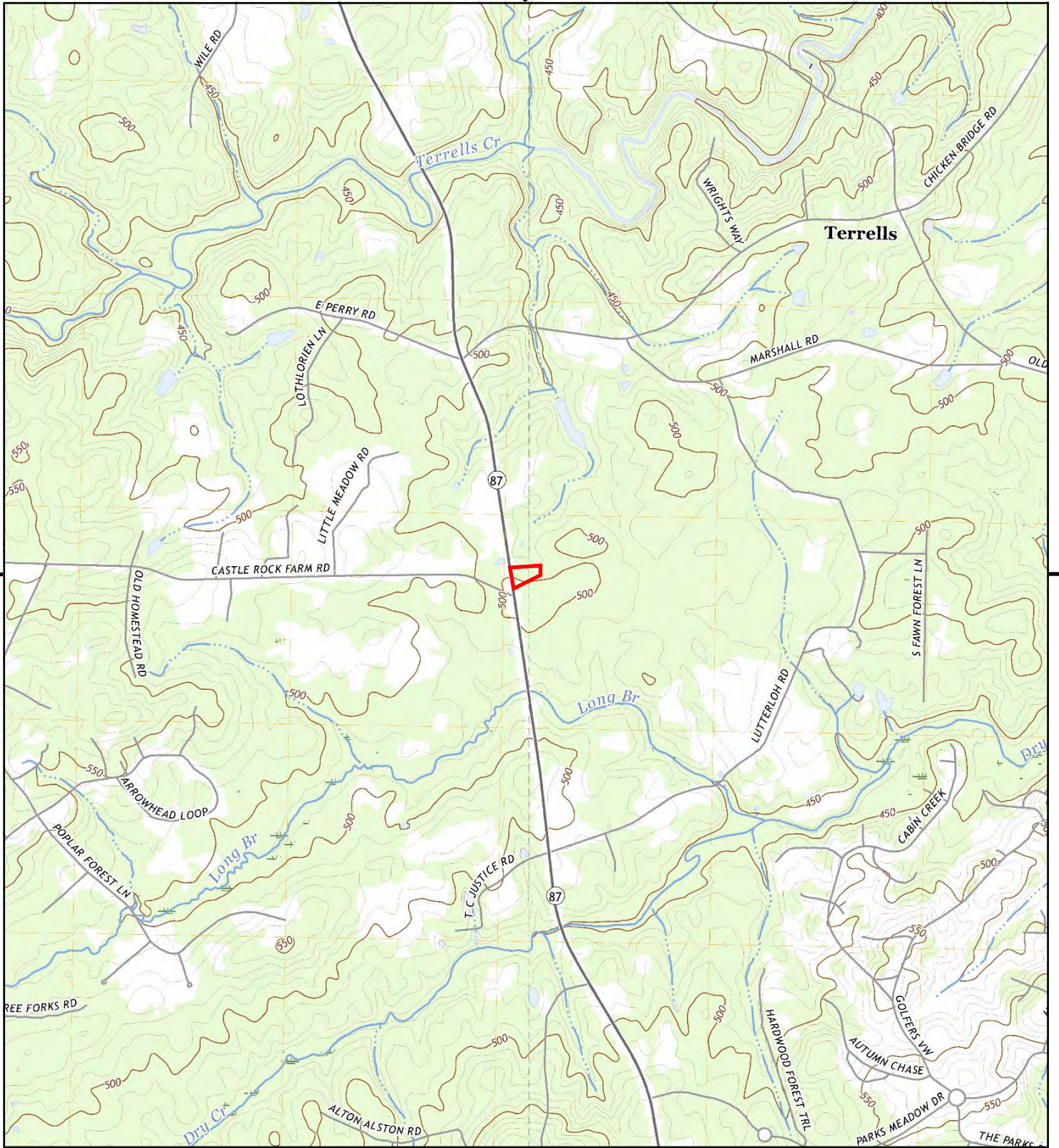


Silk Hope
1974
7.5-minute, 24000
Aerial Photo Revised 1973

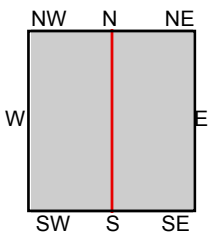
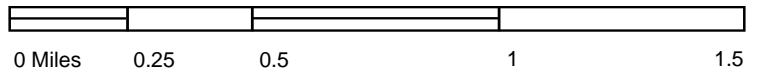
1968 Source Sheets



Bynum
1968
7.5-minute, 24000
Aerial Photo Revised 1964



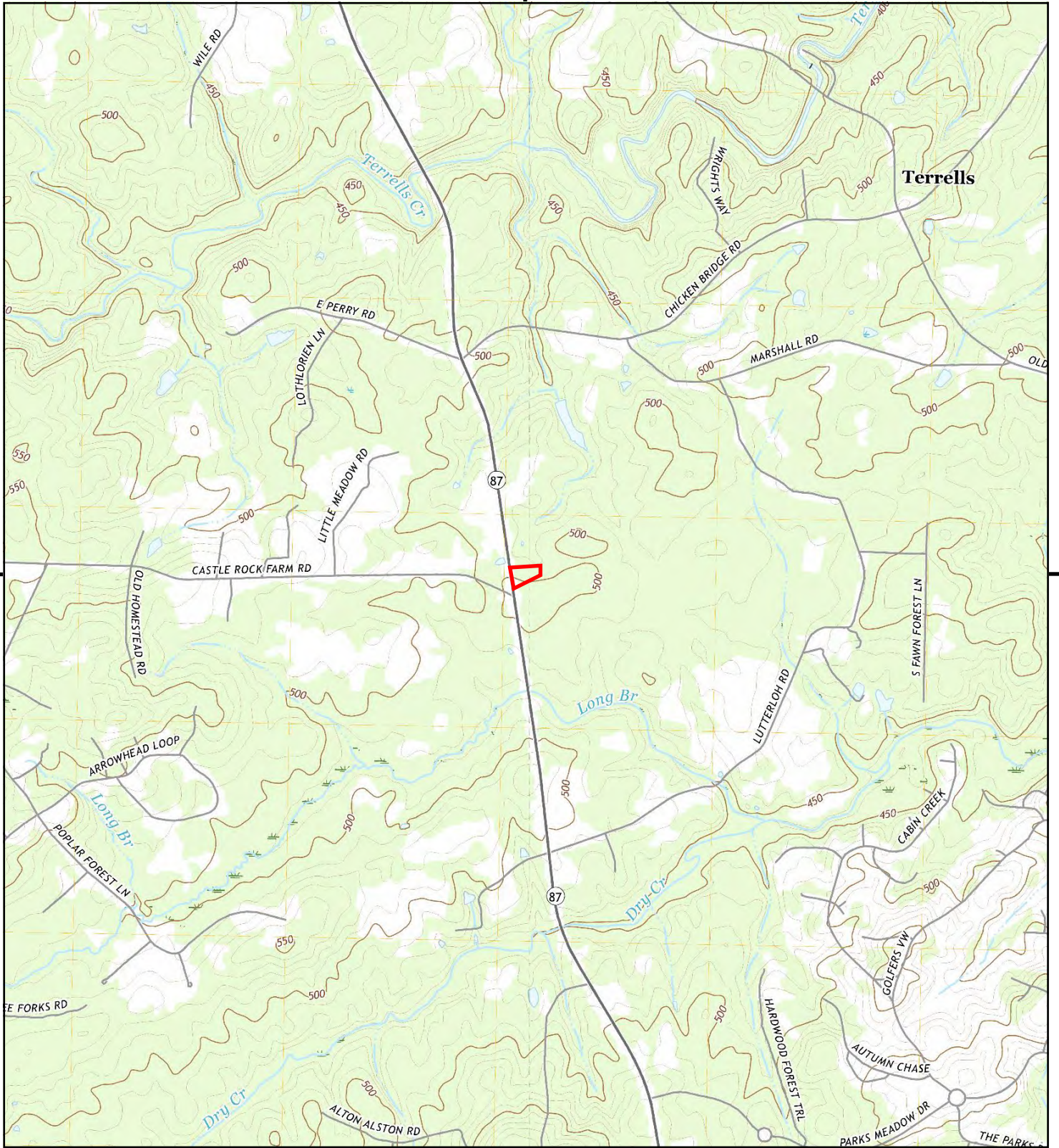
This report includes information from the following map sheet(s).



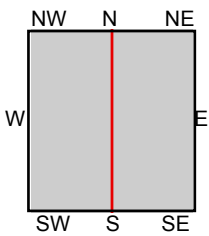
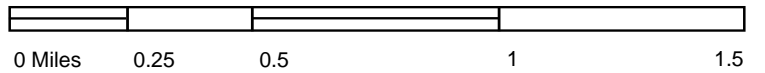
TP, Silk Hope, 2022, 7.5-minute
E, Bynum, 2022, 7.5-minute

SITE NAME: Proposed DG Store
ADDRESS: Not Reported
Pittsboro, NC 27312
CLIENT: Proctor Environmental Services, Inc.





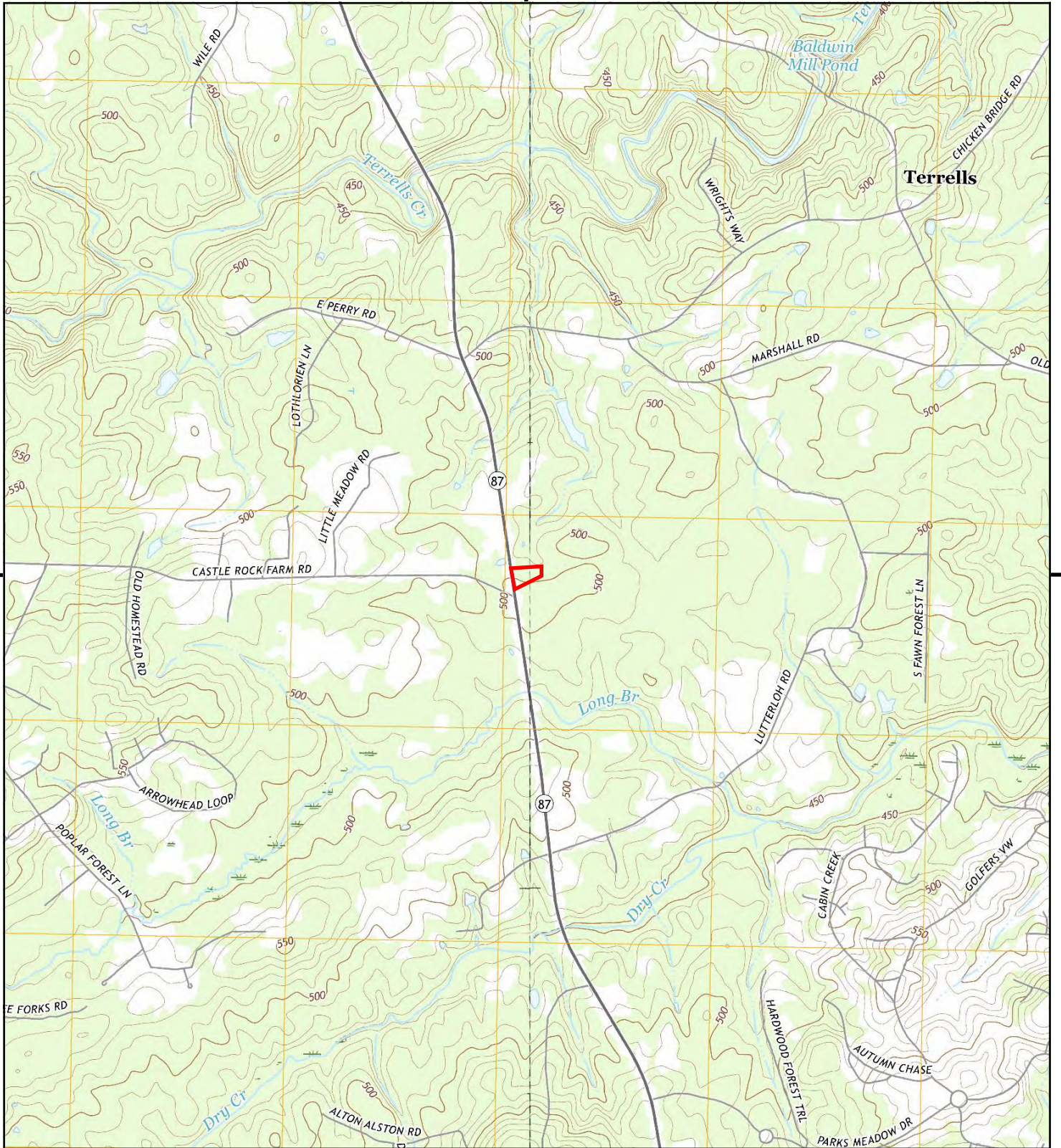
This report includes information from the following map sheet(s).



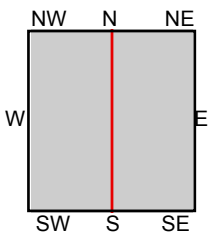
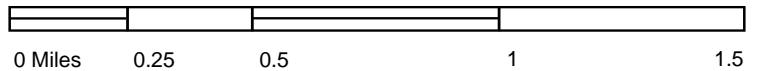
TP, Silk Hope, 2019, 7.5-minute
E, Bynum, 2019, 7.5-minute

SITE NAME: Proposed DG Store
ADDRESS: Not Reported
Pittsboro, NC 27312
CLIENT: Proctor Environmental Services, Inc.





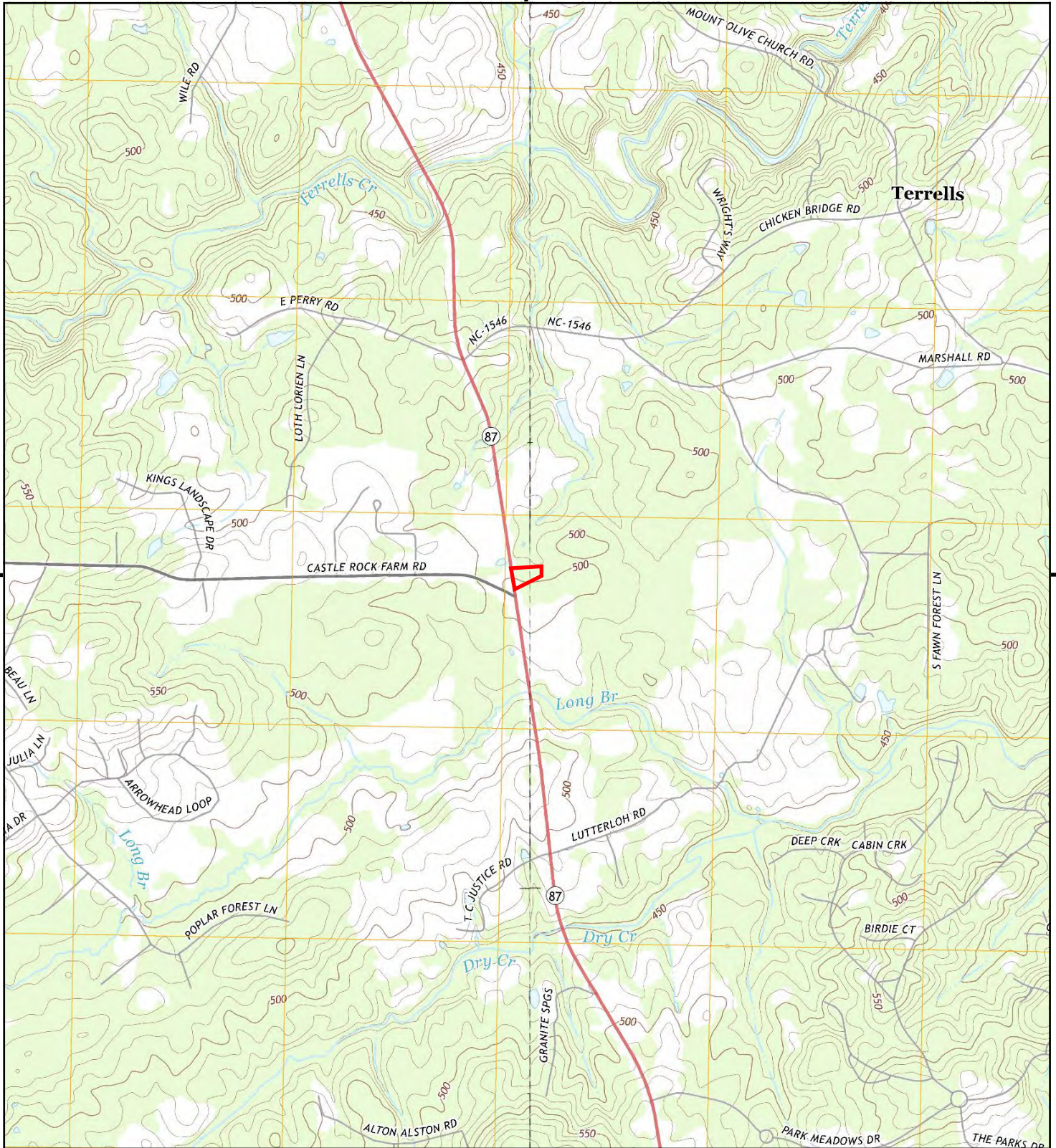
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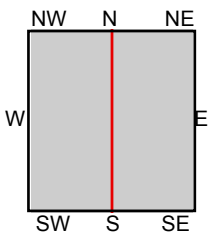
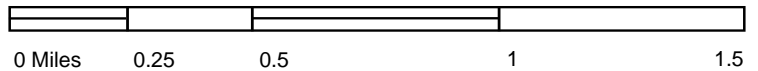
TP, Silk Hope, 2016, 7.5-minute
E, Bynum, 2016, 7.5-minute

SITE NAME: Proposed DG Store
ADDRESS: Not Reported
Pittsboro, NC 27312
CLIENT: Proctor Environmental Services, Inc.





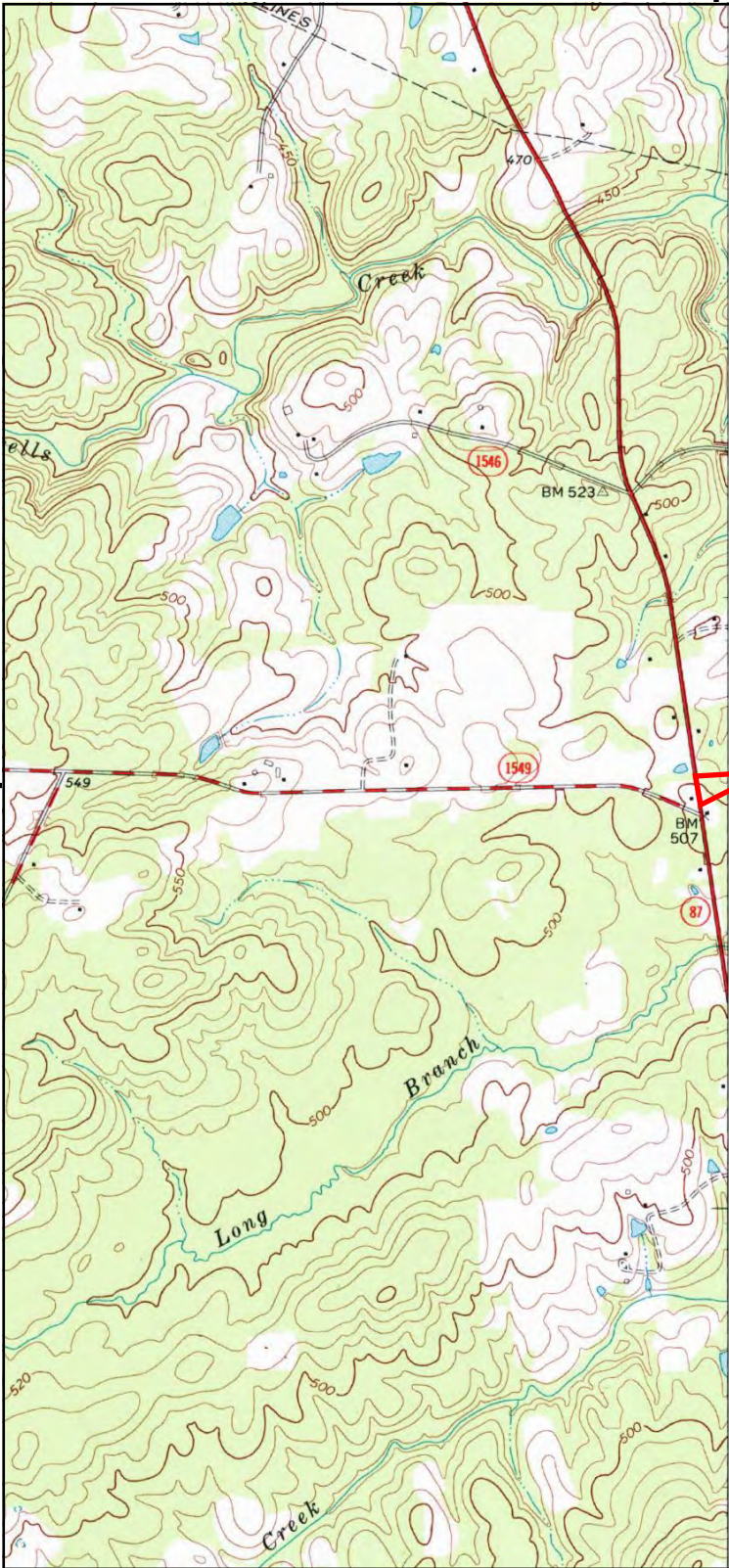
This report includes information from the following map sheet(s).



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 E, Bynum, 2013, 7.5-minute

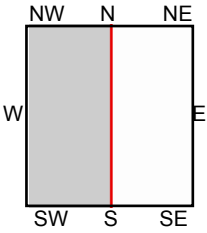
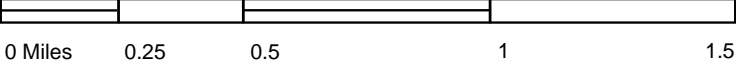
SITE NAME: Proposed DG Store
ADDRESS: Not Reported
 Pittsboro, NC 27312
CLIENT: Proctor Environmental Services, Inc.





UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED
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UNMAPPED	UNMAPPED	UNMAPPED
UNMAPPED	UNMAPPED	UNMAPPED

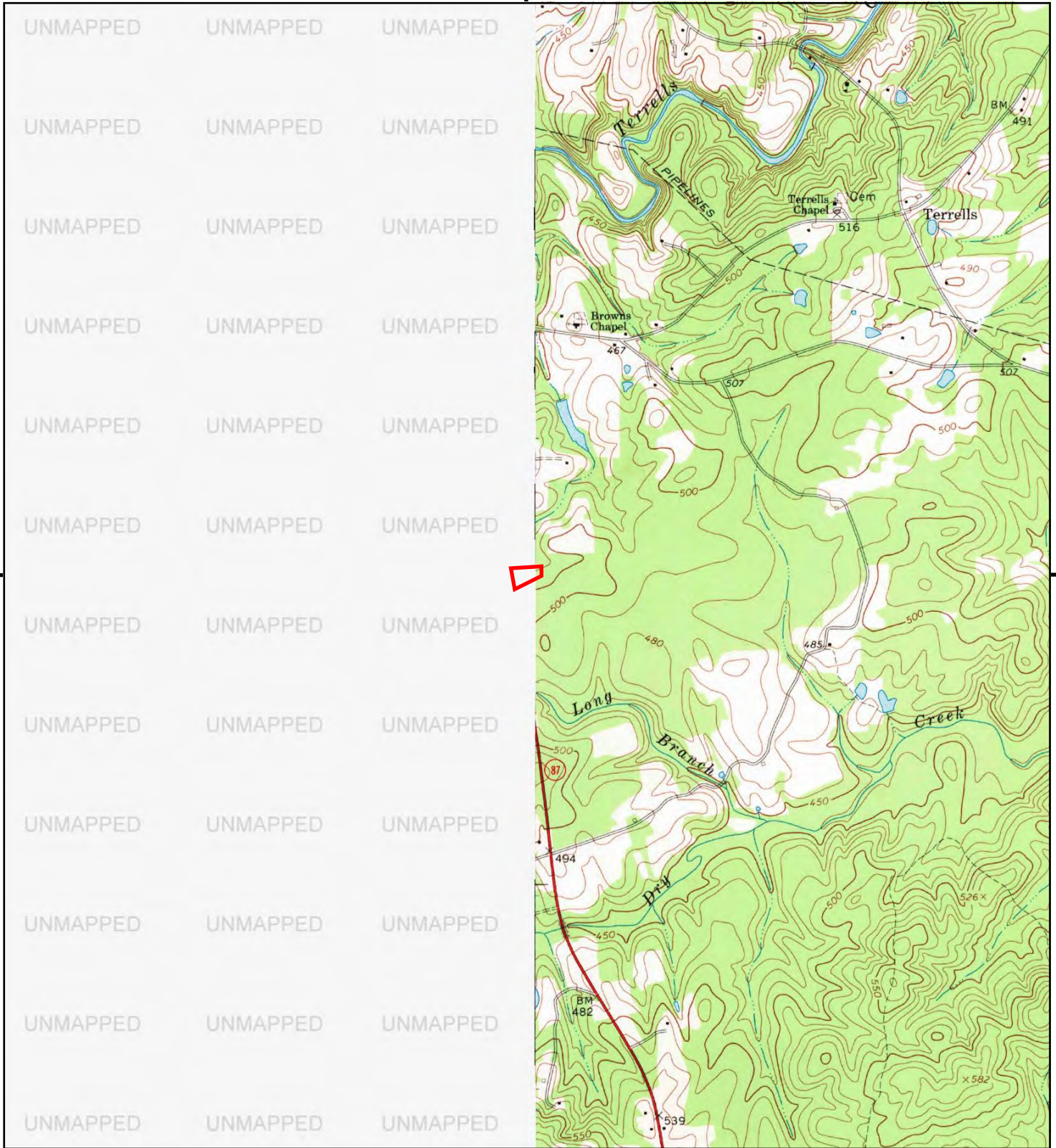
This report includes information from the following map sheet(s).



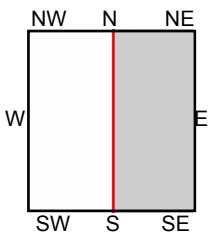
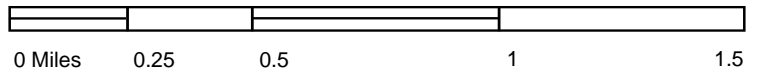
TP, Silk Hope, 1974, 7.5-minute

SITE NAME: Proposed DG Store
 ADDRESS: Not Reported
 Pittsboro, NC 27312
 CLIENT: Proctor Environmental Services, Inc.





This report includes information from the following map sheet(s).



E, Bynum, 1968, 7.5-minute

SITE NAME: Proposed DG Store
 ADDRESS: Not Reported
 Pittsboro, NC 27312
 CLIENT: Proctor Environmental Services, Inc.



APPENDIX G

PRIOR SITE INVESTIGATION REPORT(S)

**NO PRIOR SITE INVESTIGATION REPORTS
WERE MADE AVAILABLE FOR THIS SITE. THIS
APPENDIX IS INTENTIONALLY EMPTY.**

APPENDIX H

SUPPORTING DOCUMENTATION

PRE-SURVEY QUESTIONNAIRE

This form, in its entirety, is to be completed by the Property Owner or the Key Site Manager.

Project Name: 2.40-Acre Dollar General Site, Hwy 87, Pittsboro, NC Project #: P24-765
Person Completing Form: RONALD E. VADBHN Date: 8/20/24
Company Name: N/A Phone No.: 919-259-6182
Association with subject Property: OWNER

- 1) Briefly explain the current use of the Property and any past, known uses of the Property, if different:
VACANT, MOBILE HOMES ON SITE 20+ YEARS' AGO
- 2) Briefly explain the ownership of the Property (with dates, if possible) as far back as you have knowledge:
FAMILY OWNED FOR 60 YEARS
- 3) Are any of the following documents available for the Property and, if so, can they be provided to Proctor Environmental Services within reasonable time and cost constraints?
 - Previous site assessment reports;
 - Environmental compliance audit reports;
 - Environmental permits;
 - UST or AST registration or permits;
 - Material safety data sheets;
 - Community right-to-know plans;
 - Safety plans;
 - Spill Prevention Control and Countermeasure Plans (SPCC);
 - Hydrogeologic reports on Property or surrounding properties;
 - Correspondence from governmental agencies regarding past or current violations or environmental laws with respect to the Property or relating to environmental liens;
 - Hazardous waste generator notices or reports;
 - Geotechnical reports;
 - Risk assessments; or
 - Recorded legal or physical restrictions or limitations on the use of or access to the Property

Comments: No/Yes (explain) NO

- ~~4) Do you know of any 1) pending, threatened or past litigation relevant to hazardous substances or petroleum products in, on or from the Property; 2) pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Property; or 3) notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?~~

Comments: No/Yes (explain) NO

PRE-SURVEY QUESTIONNAIRE - Please answer all questions fully and to the best of your knowledge. Mark the column corresponding to the appropriate response. "U/NR" indicates either "Unknown" or "No Response" as appropriate. If necessary, use additional space on the last page to explain any "Yes" answers.

QUESTION	OWNER/SITE MGR. RESPONSE			COMMENTS
	Yes	No	U/NR	
1A. Is the Property used for an industrial purpose?		X		
1B. Are any adjoining properties used for industrial purposes?		X		
2A. To the best of your knowledge, has the Property previously been used for industrial purposes?		X		
2B. To the best of your knowledge, has any adjoining property of the Property previously been used for industrial purposes?		X		
3A. Is the Property currently used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junkyard, landfill, a waste treatment, storage, disposal, processing, or recycling facility or similar use?		X		
3B. Is any adjoining property currently used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junkyard, landfill, a waste treatment, storage, disposal, processing, or recycling facility or similar use?		X		
4A. Has the Property previously been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junkyard, landfill, a waste treatment, storage, disposal, processing, or recycling facility or similar use?		X		
4B. Has any adjoining property previously been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo-developing laboratory, junkyard, landfill, a waste treatment, storage, disposal, processing, or recycling facility or similar use?	X			GAS STATION 40 YRS AGO
5A. Are there currently any automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than five (5) gallons in volume or fifty (50) gallons in aggregate, stored on or used at the Property?		X		
5B. Have there historically been any automotive or industrial batteries, pesticides, paints, or other chemicals in		X		

PRE-SURVEY QUESTIONNAIRE - Please answer all questions fully and to the best of your knowledge. Mark the column corresponding to the appropriate response. "U/NR" indicates either "Unknown" or "No Response" as appropriate. If necessary, use additional space on the last page to explain any "Yes" answers.

QUESTION	OWNER/SITE MGR. RESPONSE			COMMENTS
	Yes	No	U/NR	
		X		
6A.		X		
6B.		X		
7A.		X		
7B.		X		
8A.		X		
8B.		X		
9A.		X		
9B.		X		
10A.		X		
10B.		X		
11A.		X		
11B.		X		
12A.		X		

PRE-SURVEY QUESTIONNAIRE - Please answer all questions fully and to the best of your knowledge. Mark the column corresponding to the appropriate response. "U/NR" indicates either "Unknown" or "No Response" as appropriate. If necessary, use additional space on the last page to explain any "Yes" answers.

QUESTION	OWNER/SITE MGR. RESPONSE			COMMENTS
	Yes	No	U/NR	
12B.		X		
13A.		X		
13B.		X		
14A.		X		
14B.		X		
15.		X		
16A.		X		
16B.		X		
17.		X		
18.		X		

Proj. Name: 2.40-Acre Dollar General Site, NC 87, Pittsboro, Chatham Co., NC Project. No.: P24R-765
 Owner/Site Manager Initials and Date: REV 8/20/24

PRE-SURVEY QUESTIONNAIRE - Please answer all questions fully and to the best of your knowledge. Mark the column corresponding to the appropriate response. "U/NR" indicates either "Unknown" or "No Response" as appropriate. If necessary, use additional space on the last page to explain any "Yes" answers.

QUESTION	OWNER/SITE MGR. RESPONSE			COMMENTS
	Yes	No	U/NR	
		X		
19.		X		
20.		X		
21.		X		
22.		X		
23.		X		
24.		X		
25.		X		
26.		X		
27.		X		
28.		X		
29.		X		
30.		X		
31.		X		
32.		X		

Proj. Name: 2.40-Acre Dollar General Site, NC 87, Pittsboro, Chatham Co., NC Project. No.: P24R-765
 Owner/Site Manager Initials and Date: REV 8/20/24

PRE-SURVEY QUESTIONNAIRE - Please answer all questions fully and to the best of your knowledge. Mark the column corresponding to the appropriate response. "U/NR" indicates either "Unknown" or "No Response" as appropriate. If necessary, use additional space on the last page to explain any "Yes" answers.

QUESTION	OWNER/SITE MGR. RESPONSE			COMMENTS
	Yes	No	U/NR	
33. Are there any reliable procedures that specify the actions (i.e. operations and maintenance) to be taken to prevent and/or respond to mold or mold producing problems?		X		
34. Is there a Mold O&M Program in place at the Property?		X		
35. Is the HVAC system inspected at least annually?		X		
36. Have any identified HVAC problems been corrected in a timely manner?		X		
37. Have any identified HVAC problems been corrected in a timely manner?		X		
38. Is there now, or has there ever been any water damage in the building(s), whether from flooding, plumbing, roof leaks, or other sources? If so, when?		X		
39. Has there ever been any sort of indoor Air Quality or Mold Testing conducted in the building(s)?		X		
40. Summarize historical Project use (when was the Project developed with the current improvements, what modifications have taken place, what was the Project used for prior to its current use?)		X		

Please use space below for additional comments:

Signature: Ronald E. Vaughan
 Printed Name: RONALD E. VAUGHAN
 Date: 8/20/24
 Relationship to Site: OWNER

Site Name Proposed DG Site, Pittsboro, Chatham Co., NC Proposal # P24R-765

In order to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the Brownfields Amendments), **the User (buyer) of the Phase I Environmental Site Assessment (PESA)** must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that the PESA is not complete. Use this form and/or additional sheets as necessary to provide the requested information.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?
Yes _____ No Comment _____

2. Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?
Yes _____ No Comment _____

3. As the user of this PESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and/or processes used by current or former businesses at this site or nearby sites?
Yes _____ No Comment _____

4. Does the purchase price being paid for this property 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 property?
Yes No _____ Comment _____

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,
 - a. Do you know the past uses of the property?
Yes _____ No Comment _____

 - b. Do you know of specific chemicals that are present or once were present at the property?
Yes _____ No Comment _____

 - c. Do you know of spills or other chemical releases that have taken place at the property?
Yes _____ No Comment _____

 - d. Do you know of any environmental cleanups that have taken place at the property?
Yes _____ No Comment _____

Site Name Proposed DG Site, Pittsboro, Chatham Co., NC Proposal # P24R-765

6. As the user of this PESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes _____ No Comment _____

7. Are any of the following documents available for the property and if so can they be provided to Proctor Environmental within reasonable time and cost constraints?

- Previous site assessment reports
- Environmental compliance audit reports
- Environmental permits (solid waste, hazardous waste, wastewater, NPDES, underground injection)
- UST or AST registrations or permits
- Underground injection system registrations
- Material safety data sheets (MSDS)
- Community right-to-know plans
- Safety plans
- Spill Prevention Control and Countermeasure Plans
- Hydrogeologic reports on property or surrounding properties
- Correspondence from governmental agencies regarding past or current violations of environmental laws with respect to the property or relating to environmental liens
- Hazardous waste generator notices or reports
- Geotechnical reports
- Risk assessments
- Recorded legal or physical restrictions or limitations on the use of or access to the property

Yes _____ No Comment _____

8. Do you know of any a) pending, threatened or past litigation relevant to hazardous substances or petroleum products in, on or from the property; b) pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and c) notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

Yes _____ No Comment _____

Additional Comments: _____

User/Buyer's Company Name: Glandon Forest Equity


User/Buyer's Signature, Title, and Date:  8/20/24

User/Buyer's Printed Name and Title: Tiffani Bylow Business Manager

Environmental Screening Inspection (ESI) Form

(Print or type information and check all appropriate boxes)

DO NOT LEAVE ANY CATEGORIES UNANSWERED

Project Name:		<u>Proposed Dollar General Store Site</u>					
Address/Location:							
City:	<u>Pittsboro</u>	County:	<u>Chatham</u>	State:	<u>NC</u>	Site Contact:	<u>NA</u>
Date:	<u>8/24/24</u>	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> PM	Job #:	<u>R528</u>	Phone #:	<u>NA</u>
Inspected by:	<u>Thomas A. Proctor, PG, RSM</u>						
Signature:							

Instructions:

This Environmental Screening Inspection Form defines the scope of work to be performed in a checklist format and is the document on which the Inspector shall record the observations during the inspection. This inspection Form shall be completed in the field by the Inspector performing the non-destructive physical inspection of the subject property to document his/her observations on-site and, to the extent possible, on the adjacent property. The inspector shall not disturb, dismantle or rearrange any materials, containers, or equipment in performance of the inspection. The Inspector should be equipped with binoculars, a camera, a compass and a site plan depicting the legal boundaries of the subject property to perform the inspection. The inspector is responsible for arranging access to the property and making all necessary preparations, including personal safety provisions, such as appropriate protective footwear and clothing.

The Inspector shall walk the entire perimeter boundary of the subject property, walk each side of all on-site wet and dry drainage arteries, walk around all on-site portions of water bodies, walk all roads, drives, and pathways, walk around and through all building improvements, and walk an appropriate grid pattern over the remaining area not covered above, including wooded/overgrown areas, to observe and record evidence of environmental concern. The Inspector shall take photographs depicting the general overall condition of the property/improvements and photograph each item of environmental concern observed to document its condition and delineate its location on a site plan drawing. Check-mark all boxes that indicate the conditions observed, appropriately fill in the blanks when applicable plus initial and date each sheet.

I. Property Description: Property size: 2.40+ acres Undeveloped land

Paving & utility improvements

Building improvements

Occupied

Unoccupied

Fenced

No. of buildings: ___

II. Utilities Serving the Subject Property:

Municipal sewer

Septic system

Floor drains

Municipal water

Well water

Unknown

III. Off-Site Adjacent Properties:

The Inspector shall observe to the extent possible conditions of concern on all adjacent properties from the subject property's perimeter boundary and from public streets, alleys, sidewalks, etc. An "adjacent property" means the property is 1) abutting, where it shares the same property line, or 2) separated from the subject property only by an easement such as a road, street, alley, highway, railroad, etc., which would otherwise be abutting. Check the appropriate boxes to define the observed relationship and characteristics of the adjacent sites.

Table 1: OFF-SITE ADJACENT PROPERTIES				
Observed Concerns	This adjacent property to the: <input checked="" type="checkbox"/> North <input type="checkbox"/> Northeast	This adjacent property to the: <input checked="" type="checkbox"/> East <input type="checkbox"/> Southeast	This adjacent property to the: <input checked="" type="checkbox"/> South <input type="checkbox"/> Southwest	This adjacent property to the: <input checked="" type="checkbox"/> West <input type="checkbox"/> Northwest
	Is: <input type="checkbox"/> Upgradient <input checked="" type="checkbox"/> Downgradient <input type="checkbox"/> Crossgradient to the subject property.	Is: <input type="checkbox"/> Upgradient <input type="checkbox"/> Downgradient <input checked="" type="checkbox"/> Crossgradient to the subject property.	Is: <input checked="" type="checkbox"/> Upgradient <input type="checkbox"/> Downgradient <input type="checkbox"/> Crossgradient to the subject property.	Is: <input type="checkbox"/> Upgradient <input type="checkbox"/> Downgradient <input checked="" type="checkbox"/> Crossgradient to the subject property.
Underground Storage Tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impoundment/holding ponds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitoring wells	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chemical odors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air emissions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Industrial/manufacturing activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aboveground storage tanks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dumping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landfill/burial activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stained/discolored soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evidence of spills or releases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waste water discharges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Current Use	Wooded	Wooded	Auto Detailing	Wooded
OCCUPIED/UNOCCUPIED?	Unoccupied	Unoccupied	Occupied	Unoccupied

IV. **On-Site Industrial/Manufacturing Activity:**

When an industrial/manufacturing activity is now, or evidence indicates it has previously been in operations on the subject property that may be involved with the generation, storage, treatment, transportation, recycling, or disposal of hazardous, or toxic wastes, the Inspector shall appropriately check-mark below and photograph the environmentally sensitive activities or evidence observed.

The following activity, or evidence thereof, was observed on-site:

Dispensing of petroleum products into vehicles (i.e. gasoline, diesel/kerosene, oil, etc.)	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Motor Vehicle repairs/maintenance.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Vehicle/equipment degreasing/washing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Hazardous waste transportation, storage and disposal.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Freight terminal.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Machine shops.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Landfill.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Wastewater treatment process.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Incineration furnace/air emissions.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Recycling process.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Junk/scrap yard.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Gasoline station/convenience store.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Airport.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Railroad yard/spur.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Military base.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Power Plant.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Asphalt or cement plant.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Oil & gas exploration/production/refining.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Mining.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Foundries/casting operations.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Herbicide/pesticide manufacturing/storage.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Chemical manufacturing/treatment.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Metal plating or finishing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Metal fabrication or production.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Textile and leather manufacturing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Wood preservation or finishing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Paper manufacturing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Printing industries.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Pharmaceutical production.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Plastic Fabrication and manufacturing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Livestock feed lots.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Agricultural/horticultural production.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Explosives manufacturing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Dry cleaning facilities.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Inks, dye and paint manufacturing or use.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Photochemical laboratories.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Analytical testing laboratories.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes
Fertilizer manufacturing.....	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	Yes

V. **SPECIFIC ON-SITE CONDITIONS OF CONCERNS**

The following specific conditions or items of concern were observed on the subject property:

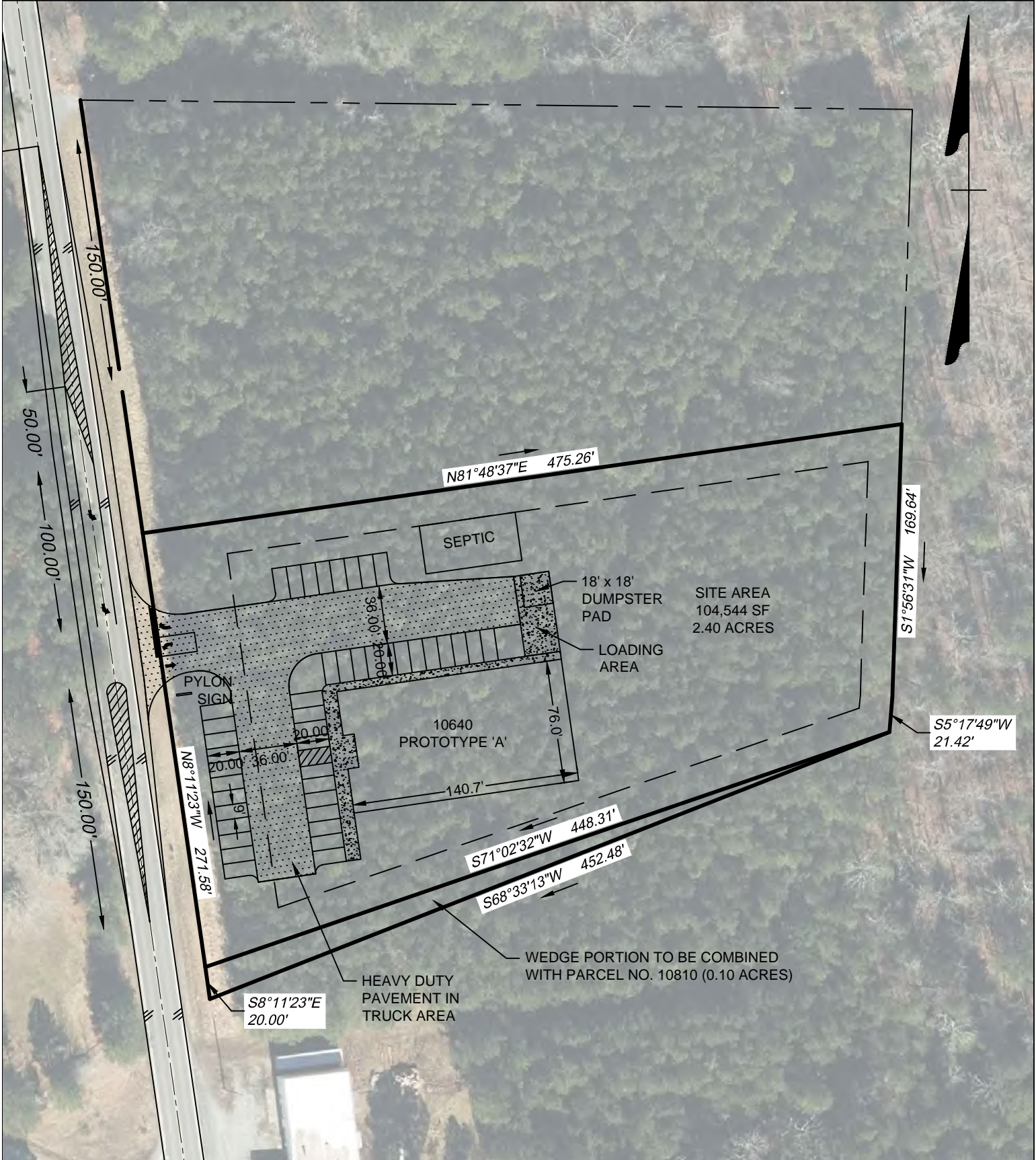
a.	Above storage tanks (AST)	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
b.	Underground storage tanks (UST)	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
c.	Pipelines	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
d.	Damaged/leaking transformers	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
e.	Surface impoundment/holding ponds (other than storm water retention)	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
f.	Monitoring wells	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
g.	Remedial cleanup activity	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
h.	Landfill/burial activity	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
i.	Chemical spills or releases	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
j.	Gas/oily sheens on water (excluding parking lot ponding on well-paved lots)	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
k.	Chemical/petroleum odors	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
l.	Stained or discolored soil	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
m.	Distressed/discolored vegetation (chemically impacted)	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
n.	Dumping	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
o.	Stored substances/drums/containers/vats	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
p.	Spray rigs/tankers/mobile storage tanks	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
q.	Sprayed on structural fire proofing	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
r.	Sprayed on acoustical/textured ceilings	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
s.	Friable/damaged thermal insulation	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
t.	Marshes/low lying wetlands	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
u.	Farm wastes/manure stockpiles	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____
v.	Vehicle wash areas	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	Photo #'s:	_____

Note: Photograph each item checked “Yes” above to appropriately document its condition. More than one photo may be required on multiple conditions or locations.

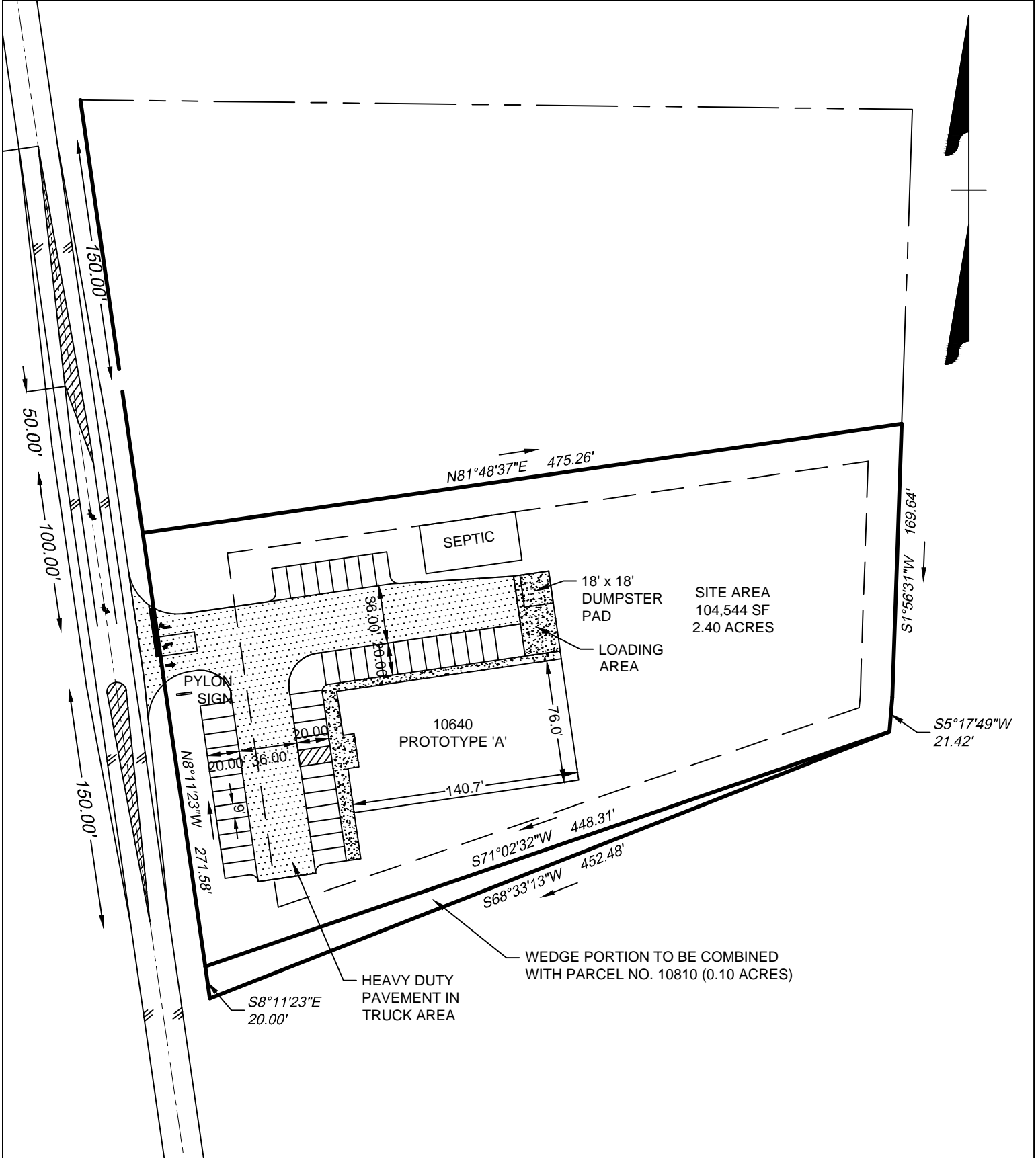
- VI. Attachment: Site Plan Drawing(s) No Yes
 VII. Attachment: Color Photographs No Yes



PRELIMINARY SITE PLAN		CITY, STATE - STREET: PITTSBORO, CHATHAM COUNTY, NC NC HIGHWAY 87		PROPERTY IDENTIFICATION NUMBER (PIN) 68537 (PORTION OF)	
PROTOTYPE:	10640 A	DEVELOPER	DESIGNER	DATE	68537 (PORTION OF)
BLDG/SALES SF:	10640 / 8513	COMPANY: VANGUARD PROPERTY GROUP	COMPANY: TIMMONS GROUP	8/9/2024	
ACREAGE:	2.40 AC	NAME: GEORGE BARNES	NAME: JASON MIZELLE		
PARKING SPACES:	43 SPACES	PHONE NUMBER: 919-459-2600	PHONE NUMBER: 252-621-5028		



PRELIMINARY SITE PLAN		CITY, STATE - STREET: PITTSBORO, CHATHAM COUNTY, NC NC HIGHWAY 87		PROPERTY IDENTIFICATION NUMBER (PIN) 68537 (PORTION OF)	
PROTOTYPE:	10640 A	DEVELOPER	DESIGNER	DATE	68537 (PORTION OF)
BLDG/SALES SF:	10640 / 8513	COMPANY: VANGUARD PROPERTY GROUP	COMPANY: TIMMONS GROUP	8/9/2024	
ACREAGE:	2.40 AC	NAME: GEORGE BARNES	NAME: JASON MIZELLE		
PARKING SPACES:	43 SPACES	PHONE NUMBER: 919-459-2600	PHONE NUMBER: 252-621-5028		



Overview

Parcel Number	0068537	FMV	58,033
Tax Year	2024 <input type="button" value="v"/>	Exemption/Exclusion	0
Class	R - RESIDENTIAL	Deferred	56,641
Physical Address	NC 87 N NC	ASV	1,392
Acreage	5.5270	Tax Rate	0.8530
		Total Tax	\$11.87

Tax Disbursements

Jurisdiction	Tax Rate	Tax Amount
CHATHAM COUNTY	0.7250	\$10.09
NORTH CHATHAM FIRE DIST	0.1280	\$1.78
TOTAL		\$11.87

No Photos or Sketches

Billing

	Total
Tax Billed	\$11.87
SA Billed	\$0.00
Interest Billed	\$0.00
Fees Billed	\$0.00
Total Billed	\$11.87
Amount Paid	\$0.00
Total Unpaid	\$11.87

Tax Due Amounts

If paid in...	Amount due is...
August 2024	\$11.87
September 2024	\$11.87
October 2024	\$11.87
November 2024	\$11.87
December 2024	\$11.87

[Pay Taxes](#)

Tax Due amounts are for all unpaid years.
See Payment History section for year-by-year details.

☰ Payment History

Tax Year	Total Due	Total Paid	Amount Unpaid	Date Paid
2024	\$11.87	\$0.00	\$11.87	
2023	\$11.32	\$11.32	\$0.00	12/19/2023
2022	\$10.90	\$10.90	\$0.00	12/29/2022
2021	\$10.76	\$10.76	\$0.00	12/20/2021
2020	\$13.59	\$13.59	\$0.00	12/15/2020

Show 5 More (22)

Zoning

Code	Classification
R-1	RESIDENTIAL DISTRICT 1

☰ Legal

Legal Description	Subdivision Name	Block	Lot	Plat Book	Plat Page
LOT 2					

No Exclusions

☰ Owner Information

OWNER VAUGHN, GLENETTE MANN TRUSTEE
Mailing Address 8847 NC HWY 87 N
 PITTSBORO, NC 273126221

OWNER VAUGHN, RONALD EDWARD TRUSTEE
Mailing Address 8847 NC HWY 87 N
 PITTSBORO, NC 273126221

☰ Transfer History

Book & Page	Sale Type	Sale Date	Sold By	Sold To	Price
2254 1004	WARRANTY DEED	10/15/2021	VAUGHN RONALD E VAUGHN GLENETTE M	VAUGHN GLENETTE MANN TRUSTEE VAUGHN RONALD EDWARD TRUSTEE	\$0
1354 1132	NON-WARRANTY DEED	8/15/2007	VAUGHN GLENETTE M	VAUGHN RONALD E VAUGHN GLENETTE M	\$0
1354 1128	NON-WARRANTY DEED	8/15/2007	MANN MURIEL A	VAUGHN GLENETTE M	\$0
730 0274	NON-WARRANTY DEED	9/18/1997	MANN MURIEL A	MANN MURIEL A	\$0
347 0114		12/31/1996		MANN MURIEL A	\$0

No Genealogy

⊖ Land Value

Property Class	Valued Acres	Appraised Value
Acre - Residual	5.5270	58,033

No CAMA

⊖ Market Value

Year	Market Land	Market Building	Market Total
2024	58,033	0	58,033
2023	58,033	0	58,033

⊕ Map

[View Full Screen](#)

Contact Information

Chatham County Tax Assessor

12 East Street
PO Box 908
Pittsboro, NC 27312
Phone: 919-542-8211

Chatham County Tax Collector

192 West Street
PO Box 697
Pittsboro, NC 27312
Phone: 919-542-8260

FILED Oct 15, 2021
AT 11:46:08 am
BOOK 02254
START PAGE 1004
END PAGE 1006
INSTRUMENT # 15939
EXCISE TAX (None)

NORTH CAROLINA SPECIAL WARRANTY DEED

Excise Tax: \$0

Parcel Identifier No. 0088054 (Tract 1); 0010810 (Tract 2); 0010939 (Tract 3); 0010977 (Tract 4); 0066015 (Tract 5); 0068537 (Tract 6)

Verified by _____ County on the ____ day of _____, 20____

Mail/Box to: Kelly J. Mackay, Attorney, Walker Lambe, PLLC, P.O. Box 51549, Durham, NC 27717-1549

This instrument was prepared by: Kelly J. Mackay, Attorney, Walker Lambe, PLLC
Post Office Box 51549, Durham, NC 27717-1549
(WITHOUT BENEFIT OF TITLE EXAMINATION)

Brief description for the Index: Six tracts

THIS DEED made this 12th day of October, 2021, by and between

GRANTOR	GRANTEE
GLENETTE M. VAUGHN and husband, RONALD E. VAUGHN	RONALD EDWARD VAUGHN and GLENETTE MANN VAUGHN, Trustees, or their Successors in Trust, under THE VAUGHN LIVING TRUST, u/a/d September 16, 2021, and any amendments thereto
8847 NC HWY 87 NORTH PITTSBORO, NC 27312	8847 NC HWY 87 NORTH PITTSBORO, NC 27312

Enter in appropriate block for each Grantor and Grantee: name, mailing address, and, if appropriate, character of entity, e.g. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in Chatham County, North Carolina and more particularly described as follows:

SEE ATTACHED EXHIBIT "A" WHICH IS INCORPORATED BY REFERENCE.

The property hereinabove described was acquired by Grantor by instrument recorded in Book ____, Page ____.

All or a portion of the property herein conveyed X includes or ____ does not include the primary residence of a Grantor.

A map showing the above described property is recorded in Plat Book __, Page __.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor has done nothing to impair such title as Grantor received, and Grantor will warrant and defend the title against the lawful claims of all persons claiming by, under or through Grantor, other than the following exceptions:

1. All recorded restrictions, easements, encumbrances and rights of way affecting the property.
2. Ad valorem taxes for the tax year 2021.
3. Ad valorem taxes for the tax year 2022 and subsequent years, which are not yet due and payable.

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written.

Glenette M. Vaughn (SEAL)
 GLENETTE M. VAUGHN

Ronald E. Vaughn (SEAL)
 RONALD E. VAUGHN

State of North Carolina
 County of Durham

I, the undersigned Notary Public of the County of Durham and State aforesaid, certify that GLENETTE M. VAUGHN and husband, RONALD E. VAUGHN, personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

Witness my hand and Notarial stamp or seal this 12th day of October, 2021.

Lisa R. Debo
 Notary Public

My Commission Expires: August 22, 2025

Lisa R. Debo
 Notary's Printed or Typed Name

(Affix Seal) LISA R. DEBO
 Notary Public, North Carolina
 Durham County
 My Commission Expires
 August 22, 2025

EXHIBIT "A"

Tract 1 (PID #0088054)

Being all of Lots 2 and 3 shown on Plat Slide 2009-260, Chatham County Registry.

See Book 1497, Page 589 (Parcel 1), as back reference for Lot 3, and Book 1354, Page 1132 (Tract 3), as back reference for Lot 2.

Tract 2 (PID #0010810)

Being all of Lot 1 as shown on Plat Slide 2012-56, Chatham County Registry.

See Book 1354, Page 1132 (part of Tract 5 and all of Tract 6) for back reference.

Tract 3 (PID #0010939)

Being all of Lot 3 as shown on Plat Slide 30-41, Chatham County Registry.

This conveyance is subject to a thirty-foot easement as shown on plat.

See Book 1354, Page 1132 (Tract 2) for back reference.

Tract 4 (PID #0010977)

Being all of Tract 1 as shown on Plat Slide 2020-64 and all of Lot 1 as shown on Plat Slide 2009-260, Chatham County Registry.

This conveyance is subject to a sixty-foot easement as shown on Plat Slide 2009-260.

See Book 2099, Page 773, as back reference for Tract 1 above, and Book 1354, Page 1132 (Tract 3), as back reference for Lot 1 above.

Tract 5 (PID# 0066015)

Being all of Lot 4 as sown on Plat Slide 2009-260, Chatham County Registry, and being all of Lot 6 shown on Plat Slide 93-434 less and except Lot 9 as shown on Plat Slide 94-3, Chatham County Registry.

See Book 1497, Page 589 (Parcel 2), as back reference for Lot 4 above, and Book 1354, Page 1132 (Tract 1), as back reference for Lot 6 above.

Tract 6 (PID# 0068537)

Being all of Lot 2 as shown on Plat Slide 2012-56, Chatham County Registry.

See Book 1354, Page 1132 (part of Tract 5 and all of Tract 4) for back reference.

The subject real property is conveyed pursuant to and is to be held under N.C. Gen. Stat. § 41-65. As of the date of this conveyance, the requirements are met providing for the application of N.C. Gen. Stat. § 41-60(a)(1), protecting the real property from liability for the individual debts of either spouse.

I, Rufus L. Johnson, PLS No. L-802, certify to one of the following as indicated thus:
 (a) That the survey creates a subdivision of land within the area of a county or municipality that has an ordinance that regulates parcels of land.
 (b) That the survey is located in such portion of a county or municipality that is unregulated as to an ordinance that regulates parcels of land.
 (c) That the survey is of an existing parcel or parcels of land and does not create a new street or change an existing street.
 (d) That the survey is of another category, such as the recombination of existing parcels, a court ordered survey, or other exception to the definition of subdivision.
 (e) That the information available to the surveyor is such that the surveyor is unable to make a determination to the best of his or her professional ability as to the provisions contained in (a) through (d) above.

Rufus L. Johnson

FINAL PLAT FOR OWNERS
RONALD E. VAUGHN et ux GLENETTE MANN VAUGHN

NORTH CAROLINA CHATHAM COUNTY HADLEY TWP.

MARCH 19, 2012 - 919-742-4510

SURVEYED BY RUFUS L. JOHNSON, PLS L-802

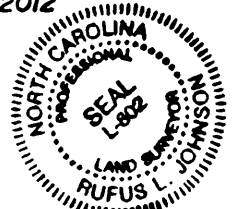
126 SOUTH CHATHAM AVE., SILER CITY, N.C. 27344

SCALE -1" = 100' 100 0 100 200 300

I, Rufus L. Johnson, hereby certify that this plat was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book 1354, Page 1132, etc.) that the boundaries not surveyed are clearly indicated as drawn from information found in Book and Page that the ratio of precision as calculated is at least 1/7500, that this plat was prepared in accordance with G.S. 47-30 as amended.

Witness my original signature, registration number and seal this 19, day of March, 2012

Rufus L. Johnson
 Professional Land Surveyor



I, hereby certify that I am the owner of the property shown and described hereon and that said property is exempt from the subdivision regulations of Chatham County by definition.

3-19-2012 *Rufus L. Johnson*
 Owner or Authorized Agent
 3-21-2012 *Lynn W. Richardson*
 Chatham County Planning Department

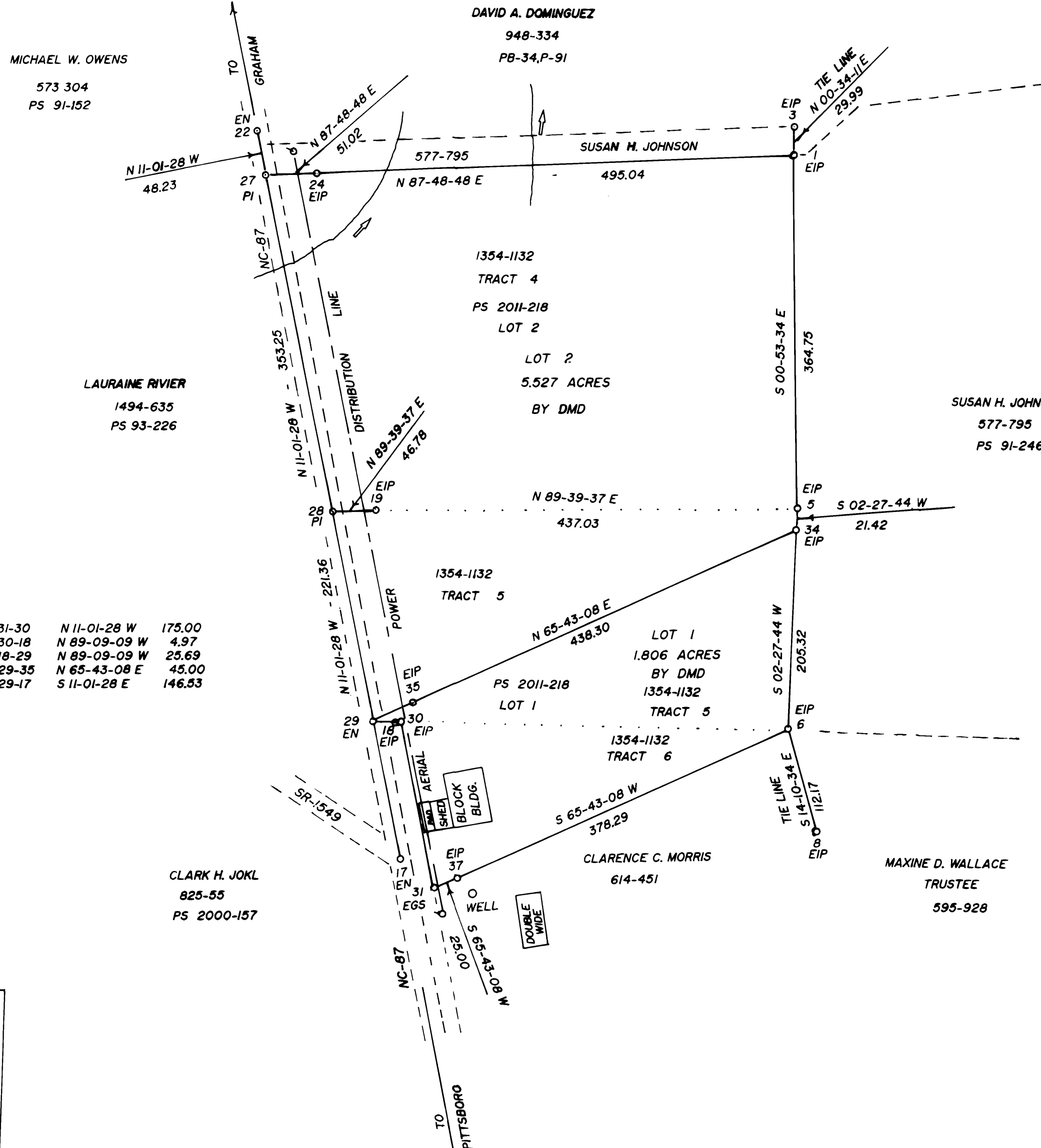
I, Tina Stone, Review Officer of Chatham County

certify that the map or plat to which this certificate is affixed meets all statutory requirements for recording.

Tina Stone by Lynda Hall
 Review Officer Date 3-21-12

NOTES:

- A-LOT 1 IS AN EXISTING LOT, TAX PIN 9724-57-8744, PARCEL 10810, PHYSICAL ADDRESS 7070 NC HWY 87 N.
- B-LOT 2 IS AN EXISTING LOT, TAX PIN 9724-58-8146, PARCEL 68537, PHYSICAL ADDRESS NC HWY 87 N. LOT 2 IS NOT APPROVED FOR BUILDING DEVELOPMENT AND DOES NOT MEET THE REQUIREMENTS OF THE SUBDIVISION REGULATIONS, BUT IS APPROVED FOR RECORDING PURPOSES ONLY.
- C-RONALD E. VAUGHN et ux GLENETTE M. VAUGHN ARE THE RECORD OWNERS OF LOTS 1 AND 2 AS RECORDED IN 1354-1132, ADDRESS 8847 NC 87 N, PITTSBORO, N.C. 27312.
- D-POINT 17 IS AT THE INTERSECTION OF NC 87 AND SR-1549.
- E-FROM POINT 22 IT IS N11-23-11 W, 2097.92' TO NGS STATION "HARMON" WITH NAD 83 COOR. OF Y=228,740.628 MT AND X= 586,807.037 MT
- F-ALL PHYSICALLY MARKED POINTS ARE CONTROL CORNERS.

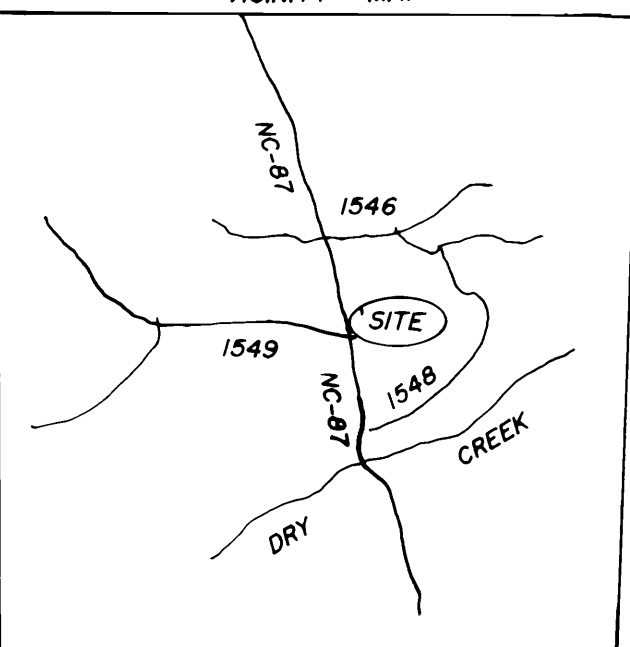


LEGEND

- EIP existing iron stake
- NIP 1" iron pipe set by me
- ERRS existing railroad spike
- RRS railroad spike set by me
- EN existing nail
- NS nail set by me
- ES existing stone
- ECM existing concrete marker
- RWM existing concrete R/W marker
- PI imaginary point
- power pole
- ESS existing survey spike
- OML old marked line
- center line
- MH man hole
- FH fire hydrant
- R/W right of way
- property line
- GS 8" galvanized spike
- EGS existing 8" galvanized spike

31-30	N 11-01-28 W	175.00
30-18	N 89-09-09 W	4.97
18-29	N 89-09-09 W	25.69
29-35	N 65-43-08 E	45.00
29-17	S 11-01-28 E	146.53

VICINITY MAP

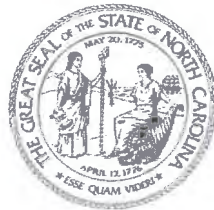


FILED Apr 04, 2012 03:33:38 pm
 PLAT SLIDE 02012 - 0056
 INSTRUMENT 03404

FILED CHATHAM COUNTY NC TREVIA B. SEAGROVES REGISTER OF DEEDS

JOB NO. 3925

2012-56



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MICHAEL SCOTT
Director

May 9, 2024

Ronald Vaughn
8847 NC Highway 87 N
Pittsboro, NC 27312

**Re: Water Supply Well Sample Results
Mann Store, FTF Incident #6281
7070 NC Highway 87 N
Pittsboro, NC 27312**

Dear Mr. Vaughn,

On April 10, 2024, your water supply well was sampled by Catlin Personnel on behalf of the NC Department of Environmental Quality. Your water supply was sampled and tested due to its proximity to a known petroleum release from a formerly active underground storage tank system located at Mann Store.

The water samples were collected for analysis of volatile organic compounds by Standard Method 6200B including MTBE, EDB, and IPE. These compounds are among a wide range of parameters tested for, but not limited to, artificial compounds that are found in gasoline. An organic solvent was detected in the water sample, so the results were forwarded to an Environmental Toxicologist for a Health Risk Evaluation. The Evaluation Recommendation states: **The benzene concentration in this well exceeds the applicable standard. Therefore, this water is not recommended for drinking or cooking at this time. No restrictions are recommended for using the water for other non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing.** Copies of the Health Risk Evaluation and the lab results are enclosed for your own review and documenting. Your water supply is identified as WSW-7070.

If you have any further questions, you can reach me at my email address devin.valenza@deq.nc.gov or by phone at (919) 707-8165.

Thank you,

Devin Valenza, Environmental Engineer
Division of Waste Management, NCDEQ

Enclosed



North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646
919.707.8200

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

MICHAEL SCOTT
Director



NORTH CAROLINA
Environmental Quality

May 9, 2024

TO: Devin Valenza
NC UST Section

RE: Health Risk Evaluation
Incident # 6281
Ronald Vaughn Well Sampling Results
7070 NC Hwy 87 N
Pittsboro, NC

During this sampling event, ten contaminants were detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentrations with the applicable standards:



North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mall Service Center | Raleigh, North Carolina 27699-1646
919.707.8200

Sample ID	Contaminant	Concentration (µg/L)	MCL (µg/L)	2L (µg/L)
24D1426-01	Benzene	19	5	
	1,2,4-Trimethylbenzene	1.3		400
	1,3,5-Trimethylbenzene	0.53		400
	Diisopropyl Ether	2.2		70
	Chloroform	0.32	80*	
	Total Xylenes	5.7	10,000	
	Ethylbenzene	2.8	700	
	n-Propylbenzene	0.24		70
	Naphthalene	0.25		6
	Toluene	1.3	1,000	

Shaded boxes indicate a standard has been exceeded.

µg/L – Stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

* As total trihalomethanes.

RECOMMENDATION: The benzene concentration in this well exceeds the applicable standard. Therefore, this water is not recommended for drinking or cooking at this time. No restrictions are recommended for using the water for other non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing.



David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: WSW-7070

Sampled: 4/10/2024 11:51

Sample ID: 24D1426-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Benzene	19	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromochloromethane	ND	0.50	0.32	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2-Butanone (MEK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
n-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
sec-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
tert-Butylbenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Carbon Tetrachloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chlorobenzene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Ethanol	ND	50	20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chloroethane	ND	0.50	0.46	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chloroform	0.32	0.50	0.19	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chloromethane	ND	0.60	0.50	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2-Chlorotoluene	ND	0.50	0.21	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
4-Chlorotoluene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,3-Dichlorobenzene	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,4-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1-Dichloroethane	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dichloroethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1-Dichloroethylene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
cis-1,2-Dichloroethylene	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
trans-1,2-Dichloroethylene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dichloropropane	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,3-Dichloropropane	ND	0.50	0.097	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2,2-Dichloropropane	ND	0.50	0.33	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1-Dichloropropene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Diisopropyl Ether (DIPE)	2.2	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Ethylbenzene	2.8	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2-Hexanone (MBK)	ND	5.0	1.3	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Isopropylbenzene (Cumene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: WSW-7070

Sampled: 4/10/2024 11:51

Sample ID: 24D1426-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	0.25	0.50	0.25	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
n-Propylbenzene	0.24	0.50	0.11	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Styrene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Tetrachloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Toluene	1.3	0.50	0.11	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,3-Trichlorobenzene	ND	1.0	0.22	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,4-Trichlorobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1,1-Trichloroethane	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1,2-Trichloroethane	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Trichloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Trichlorofluoromethane (Freon 11)	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,3-Trichloropropane	ND	1.0	0.27	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,4-Trimethylbenzene	1.3	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,3,5-Trimethylbenzene	0.53	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Vinyl Acetate	ND	20	1.7	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Vinyl Chloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
m+p Xylene	4.6	1.0	0.25	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
o-Xylene	1.1	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.9	70-130	4/12/24 16:07
Toluene-d8	99.9	70-130	4/12/24 16:07
4-Bromofluorobenzene	98.8	70-130	4/12/24 16:07

May 3, 2024

North Carolina Department of Environmental Quality
Division of Waste Management
UST Section
Attn: Mr. Devin Valenza
1646 Mail Service Center
Raleigh, NC 27699-1646

**Re: Letter Report
Mann Store
7070 NC 87 N, Pittsboro, NC 27312
Incident Number: 6281
Risk Classification: H395D
Facility ID #: None
CATLIN Project No. 221042.03**

Dear Mr. Valenza,

CATLIN Engineers and Scientists (CATLIN) is pleased to provide you with this letter report documenting field activities performed in general accordance with CATLIN proposal number 221042.03, prepared March 15, 2024. Services were authorized by the North Carolina Environmental Quality (NCDEQ) Task Authorization (TA) #03, accepted April 4, 2024, and Contract Number N70522-A. The approved scope of services for this Task Authorization included:

- Collect samples from two (2) water supply wells (WSW-8 and WSW-7070);
- Submit the two water supply well samples and one field blank for laboratory analysis of volatile organic compounds (VOCs) per SM 6200B (including ethylene dibromide (EDB), methyl tert-butyl ether (MTBE), and diisopropyl ether (DIPE));
- Evaluate the WSW-8 property for an alternative location for the on-site water supply well; and
- Prepare a letter report documenting the findings.

The Mann Store site is located at 7070 NC 87 N, Pittsboro, NC (See Figure 1 and Figure 2 in Attachment A). Four underground storage tanks (USTs) were previously operated at the site. One 2,000-gallon gasoline, one 550-gallon kerosene, and two 1,000-gallon gasoline USTs were removed from the site in 1990. A petroleum release was discovered during tank closure activities.

CATLIN personnel conducted groundwater sampling and evaluation activities at the site on April 10, 2024; water supply well samples were collected from wells WSW-8 and WSW-7070 and the WSW-8 property was evaluated to determine if it might be feasible to relocate the water supply well to a location further removed from the impacted groundwater plume. The public and private water supply well information is presented in Table 1.

Methods

CATLIN personnel conducted site activities in general accordance with the approved TA and general industry-accepted Health and Safety practices. Upon arrival at the site, potential hazards were evaluated before beginning field work and are documented on the Daily Activities Log, which is included in Attachment B. Photographs from the site visit are included in Attachment C.

The water supply wells were sampled in general accordance with NCDEQ Guidelines and U.S. EPA Region 4 Operating Procedures. Prior to obtaining representative groundwater samples, the water supply wells were allowed to run for 15 minutes. Copies of the field sampling sheets are available in Attachment B.

After the water supply wells were purged, samples were collected from a spigot located at the water supply well (WSW-8) or a spigot located at the rear of the detail shop and prior to any filters (WSW-7070) directly into appropriate, laboratory-provided, pre-preserved glassware, labeled, and placed on ice in an insulated cooler.

A field blank sample was collected by pouring distilled water directly from a new, unopened container into laboratory-provided, pre-preserved glassware, labeled, and placed on ice in an insulated cooler.

The groundwater samples and field blank sample were submitted to Con-Test Analytical Laboratory (Certification NC 652 and NC-DW 25703) in East Longmeadow, Massachusetts, under proper chain of custody (COC) protocol and analyzed per SM 6200B (including EDB, MTBE, and DIPE). The laboratory analytical data and COCs are included in Attachment D.

Groundwater Sample Results

The groundwater sample results are summarized on Table 2, which is provided in Attachment E. Multiple petroleum constituents were detected in both the WSW-8 and WSW-7070 samples at concentrations above their corresponding Method Detection Limits (MDLs) and benzene was detected at concentrations which were greater than the levels established in Title 15A of the North Carolina Administrative Code, Subchapter 2L (2L GWQS) but below their Gross Contaminant Levels (GCL). Additionally, the benzene concentration noted in WSW-7070 exceeded its established Maximum Contaminant Level (MCL) for drinking water standards (while the benzene concentration in WSW-8 was less than the MCL). The historical water supply well sample results are summarized in Table 3, provided in Attachment E; the benzene concentration in WSW-7070 increased significantly since the previous sampling event in December 2023, while the detected concentration in WSW-8 decreased.

Field Blank Sample Results

Acetone was detected in the field blank sample as an estimated (“J” value) concentration and is presumed to be a laboratory relic. Bromoform and toluene were also detected at concentrations greater than their MDLs but below their respective 2L GWQS. No other target analytes were detected. These sample results are summarized in Table 2, which is provided in Attachment E.

Site Evaluation

CATLIN personnel walked the cleared portions of the WSW-8 site located to the east of the on-site residence. Pending approval from the property owner, it would appear that there are areas where WSW-8 could potentially be relocated such that it would be further from the impacted groundwater plume. A field map is available in Attachment B and photographs of the WSW-8 property are presented in Attachment C.

Recommendations

CATLIN recommends evaluating the potential for relocating WSW-8 and determining the need to relocate WSW-7070. In addition, CATLIN recommends conducting a sampling event in July 2024.

CATLIN Engineers and Scientists will proceed upon notification of your approval. Should you have any questions or require additional information, please contact us at (919) 838-2875.

Sincerely,

Sean J. O'Neil, PE
Project Manager

Attachments:

- A Figures
- B Daily Activities Log, Field Map, and Field Data Sheets
- C Site Photographs
- D Laboratory Analytical Data and Chain of Custody Documentation
- E Tables

ATTACHMENT A

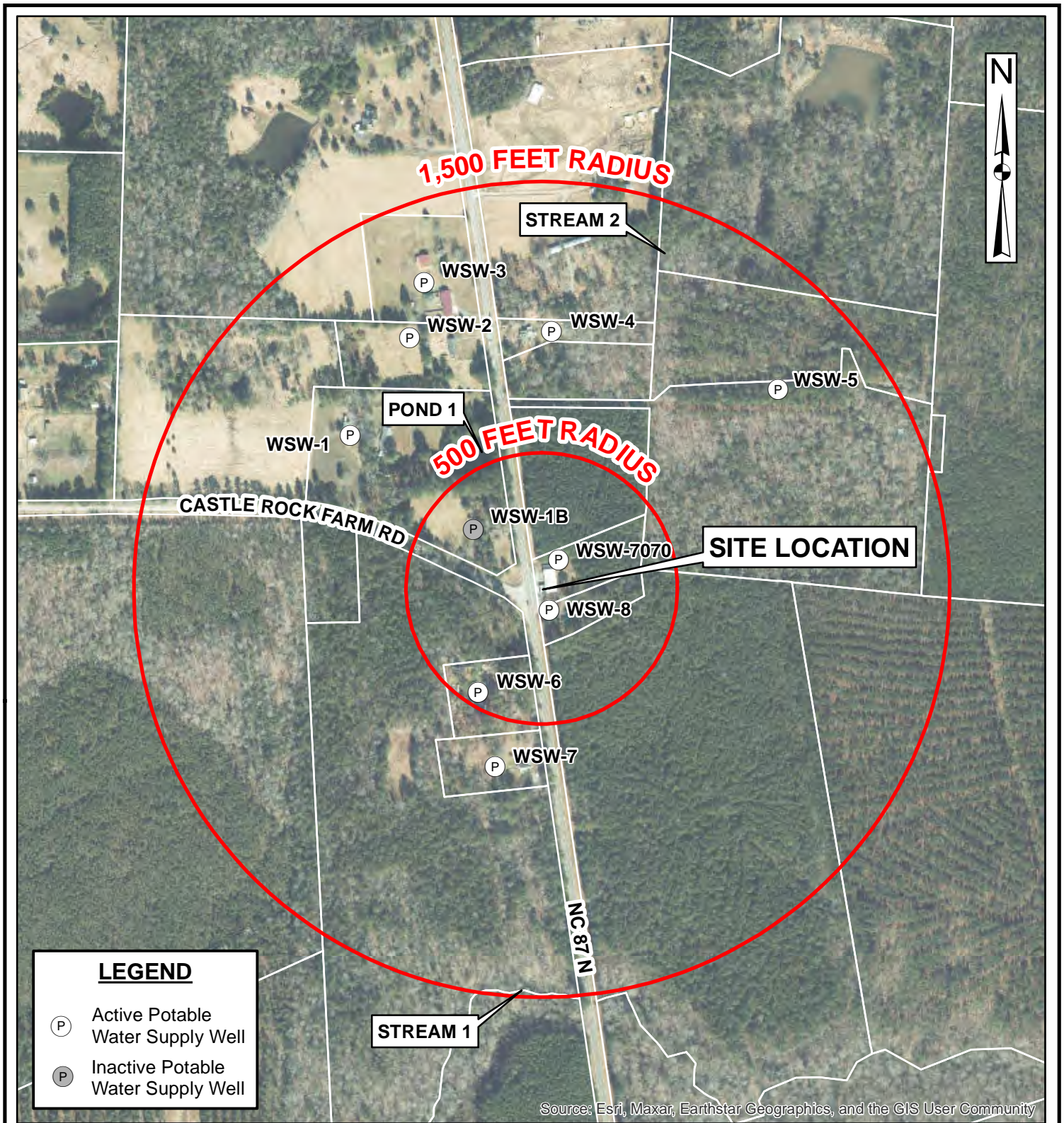
FIGURES



Copyright: © 2013 National Geographic Society, i-cubed



	PROJECT MANN STORE 7070 NC 87 N PITTSBORO, NC		TITLE SITE VICINITY MAP		FIGURE
	INCIDENT NO. 6281 JOB NO. 221042		DATE MAY 2024 SCALE AS SHOWN		1
			DRAWN BY/CHECKED BY KMC/SJO		



NOTE: Well locations were obtained from previous reports prepared by other consultants and are approximate.



	PROJECT MANN STORE 7070 NC 87 N PITTSBORO, NC		TITLE POTENTIAL RECEPTOR MAP		FIGURE
	INCIDENT NO. 6281	JOB NO. 221042	DATE MAY 2024	SCALE AS SHOWN	DRAWN BY/CHECKED BY KMC/SJO

SUMMARY OF GROUNDWATER LABORATORY RESULTS — STANDARD METHOD 6200B

Incident Name and No.: Mann Store - 6281

Well/ Sample ID	Date Collected	Contaminant of Concern											
		Benzene	Chloroform	Diisopropyl Ether (DIPE)	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes
WSW-8	04/10/24	3.9	<0.19	6.5	<0.14	0.27 J	2.3	<0.25	0.20 J	<0.11	0.45 J	<0.17	<1.46*
WSW-7070	04/10/24	<u>19</u>	0.32 J	2.2	2.8	<0.16	<0.17	0.25 J	0.24 J	1.3	1.3	0.53	5.7
GCL (µg/L)		5,000	70,000	70,000	80,000	30,500	20,000	6,000	26,100	260,000	28,500	24,100	50,000
2L GWQS (µg/L)		1	70	70	600	70	20	6	70	600	400	400	500
MCL (µg/L)		5	80	NE	700	NE	NE	NE	NE	1,000	NE	NE	10,000

All results in micrograms per liter (µg/L). Refer to Table 2 for all results and notes.

Bold results are above 2L GWQS. Underlined results are above MCL.



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

NOTE: Well and tank locations were obtained from previous reports prepared by other consultants and are approximate.



	PROJECT MANN STORE 7070 NC 87 N PITTSBORO, NC		TITLE WATER SUPPLY WELL GROUNDWATER SAMPLE ANALYTICAL RESULTS – APRIL 10, 2024		FIGURE 3
	INCIDENT NO. 6281	JOB NO. 221042	DATE MAY 2024	SCALE AS SHOWN	

ATTACHMENT B
DAILY ACTIVITIES LOG, FIELD MAP,
AND
FIELD DATA SHEETS



DAILY ACTIVITIES LOG

CATLIN PROJECT: Mann Store	DAY: <u>Wednesday</u> DATE: <u>4-10-24</u>
CATLIN PROJECT #: 221042	WEATHER: <u>overcast, drizzle, mid 60's</u>
CLIENT'S NAME: NCDEQ - SLP	REPORT BY: <u>S Miller</u>
SUBCONTRACTORS:	CATLIN CREW: <u>S Miller</u>

TIME		ACTIVITY		
START	STOP	VEHICLE #:	START ODOMETER:	END ODOMETER:
0930	1030			
		Mob + Travel to site safety briefing: binoculars in WSW-8 well house snakes, ants, spiders		
		pics of site		
		WSW-8 Turned on 1040 (<u>strong HCD</u>) off 1055 sampled at 1056		
		pics of WSW-8 near property ~ 33 paces (x 3' each) from edge of clearing to back of house		
		WSW-7070 Turned on at 1110 off at 1130 sampled at 1131		
		pics of well + sampling point		
		FB @ 1140		
1145	1415	Departed site, ice for samples, gas for van, got PD, filled out COC, dropped samples at lab and proceeded to office - demob		
		VEHICLE #:	START ODOMETER:	END ODOMETER:

EQUIPMENT	USED	EQUIPMENT	USED	EQUIPMENT	USED	OTHER EQUIP. USED
D.O. Meter		YSI		GPS Unit		
Generator		Redi-Flo Pump		Bailers		
Slug Test Equipment		Geopump		Sampling Supplies		
pH/Temp. Meter		Conductivity Pen		Tubing		
PID/FID Meter		Water Level Indicator		PPE Level Mr D	X	

Approval of data for final report can only be made by CATLIN Engineers and Scientists and cannot be conveyed on this form.
 This is a field copy and is subject to review and revision.



N

7006

Orig WSW???

10810

WSW-7070

No evidence

MW-3

67633

7042

MW-1

7070

7070

7070

MW-2

MW-4

69537

Looks possible to get back here.

~100'



WATER SUPPLY WELL SAMPLING FORM

CATLIN PROJECT: Mann Store
 CATLIN PROJECT #: 221042.03
 CLIENT'S NAME: NCDEQ-SLP; Devin Valenza

SAMPLED BY: S. Miller
 DATE SAMPLED: 4/10/2024

Water Supply Well Purging Information

Water Supply Well ID	WSW-7070	Well Depth	~240 feet
Purge Start Time	11:10	Well Diameter	
Purge Stop Time	11:30	Screen Interval	
Was Well Purged Dry?	No	Date Installed	
Sample Time	11:31	Well Material	

Comments

Sampled from spigot at rear of building (behind detail shop near NW corner of building).
 Initial few seconds of purge were light yellow-tan in color with very mild HCO.
 By end of purge, clear with no discernable odor.

Geochemical Parameters

Equipment Used:

Time	pH (Standard Units)	ORP (mV)	Specific Cond. (μ S/cm)	Dissolved Oxygen (mg/L)	Temperature (C°)	Turbidity and Additional Sampling Notes

Laboratory Analysis Information

Laboratory: Con-Test

Analysis: 6200B



WATER SUPPLY WELL SAMPLING FORM

CATLIN PROJECT: Mann Store
 CATLIN PROJECT #: 221042.03
 CLIENT'S NAME: NCDEQ-SLP; Devin Valenza

SAMPLED BY: S. Miller
 DATE SAMPLED: 4/10/2024

Water Supply Well Purging Information

Water Supply Well ID	WSW-8	Well Depth	
Purge Start Time	10:35	Well Diameter	
Purge Stop Time	10:55	Screen Interval	
Was Well Purged Dry?	No	Date Installed	
Sample Time	10:56	Well Material	

Comments

Sampled from spigot on well.
 Strong HCO throughout purging process.

Geochemical Parameters

Equipment Used:

Time	pH (Standard Units)	ORP (mV)	Specific Cond. (μ S/cm)	Dissolved Oxygen (mg/L)	Temperature (C°)	Turbidity and Additional Sampling Notes

Laboratory Analysis Information

Laboratory: Con-Test

Analysis: 6200B

ATTACHMENT C
SITE PHOTOGRAPHS

**ATTACHMENT B
SITE PHOTOGRAPHS – APRIL 10, 2024**



View of site, facing northeast.



View of WSW-8 well house, facing northwest toward NC 87.

**ATTACHMENT B
SITE PHOTOGRAPHS – APRIL 10, 2024**



View of WSW-8 sample point. (Spigot is where green hose is connected in the photo.)



View of WSW-7070, located north northeast of site building, facing south-southwest.

ATTACHMENT B
SITE PHOTOGRAPHS – APRIL 10, 2024



View of the spigot for WSW-7070 at the rear of the detail shop, facing southwest.



View of the filter that precedes the wash sink in the detail shop.

ATTACHMENT B
SITE PHOTOGRAPHS – APRIL 10, 2024



View of the rear of the WSW-8 residence, facing west.



View of the rear of the WSW-8 residence, facing southwest.

**ATTACHMENT B
SITE PHOTOGRAPHS – APRIL 10, 2024**



View facing east from the rear of the residence.



View facing east from the rear of the property.

**ATTACHMENT B
SITE PHOTOGRAPHS – APRIL 10, 2024**



View facing southeast from the rear of the property.



View facing west from the rear of the property.

ATTACHMENT D

**LABORATORY ANALYTICAL DATA
AND
CHAIN OF CUSTODY DOCUMENTATION**

April 15, 2024

Sean O'Neil
CATLIN Engineers & Scientists
1044 Washington Street
Raleigh, NC 27605

Project Location: Pittsboro
Client Job Number:
Project Number: 221042.03
Laboratory Work Order Number: 24D1426

Enclosed are results of analyses for samples as received by the laboratory on April 11, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Kaitlyn", written in a cursive style.

Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CATLIN Engineers & Scientists
1044 Washington Street
Raleigh, NC 27605
ATTN: Sean O'Neil

REPORT DATE: 4/15/2024

PURCHASE ORDER NUMBER: 240410-2

PROJECT NUMBER: 221042.03

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24D1426

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Pittsboro

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WSW-7070	24D1426-01	Ground Water		SM21-23 6200B	
WSW-8	24D1426-02	Ground Water		SM21-23 6200B	
FB	24D1426-03	Field Blank		SM21-23 6200B	

EXECUTIVE SUMMARY

Client ID: **WSW-7070**

Lab ID: **24D1426-01**

Analyte	Results/Qual	DL	RL	Units	Method
1,2,4-Trimethylbenzene	1.3	0.16	0.50	µg/L	SM21-23 6200B
1,3,5-Trimethylbenzene	0.53	0.17	0.50	µg/L	SM21-23 6200B
Benzene	19	0.14	0.50	µg/L	SM21-23 6200B
Chloroform	0.32 J	0.19	0.50	µg/L	SM21-23 6200B
Diisopropyl Ether (DIPE)	2.2	0.17	0.50	µg/L	SM21-23 6200B
Ethylbenzene	2.8	0.14	0.50	µg/L	SM21-23 6200B
m+p Xylene	4.6	0.25	1.0	µg/L	SM21-23 6200B
Naphthalene	0.25 J	0.25	0.50	µg/L	SM21-23 6200B
n-Propylbenzene	0.24 J	0.11	0.50	µg/L	SM21-23 6200B
o-Xylene	1.1	0.16	0.50	µg/L	SM21-23 6200B
Toluene	1.3	0.11	0.50	µg/L	SM21-23 6200B

Client ID: **WSW-8**

Lab ID: **24D1426-02**

Analyte	Results/Qual	DL	RL	Units	Method
1,2,4-Trimethylbenzene	0.45 J	0.16	0.50	µg/L	SM21-23 6200B
Benzene	3.9	0.14	0.50	µg/L	SM21-23 6200B
Diisopropyl Ether (DIPE)	6.5	0.17	0.50	µg/L	SM21-23 6200B
Isopropylbenzene (Cumene)	0.27 J	0.16	0.50	µg/L	SM21-23 6200B
m+p Xylene	1.3	0.25	1.0	µg/L	SM21-23 6200B
Methyl tert-Butyl Ether (MTBE)	2.3	0.17	0.50	µg/L	SM21-23 6200B
n-Propylbenzene	0.20 J	0.11	0.50	µg/L	SM21-23 6200B

Client ID: **FB**

Lab ID: **24D1426-03**

Analyte	Results/Qual	DL	RL	Units	Method
Acetone	2.9 J	2.0	50	µg/L	SM21-23 6200B
Bromoform	0.87 J	0.30	1.0	µg/L	SM21-23 6200B
Toluene	0.15 J	0.11	0.50	µg/L	SM21-23 6200B

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: WSW-7070

Sampled: 4/10/2024 11:51

Sample ID: 24D1426-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Benzene	19	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromochloromethane	ND	0.50	0.32	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2-Butanone (MEK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
n-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
sec-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
tert-Butylbenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Carbon Tetrachloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chlorobenzene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Ethanol	ND	50	20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chloroethane	ND	0.50	0.46	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chloroform	0.32	0.50	0.19	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Chloromethane	ND	0.60	0.50	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2-Chlorotoluene	ND	0.50	0.21	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
4-Chlorotoluene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,3-Dichlorobenzene	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,4-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1-Dichloroethane	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dichloroethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1-Dichloroethylene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
cis-1,2-Dichloroethylene	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
trans-1,2-Dichloroethylene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2-Dichloropropane	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,3-Dichloropropane	ND	0.50	0.097	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2,2-Dichloropropane	ND	0.50	0.33	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1-Dichloropropene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Diisopropyl Ether (DIPE)	2.2	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Ethylbenzene	2.8	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
2-Hexanone (MBK)	ND	5.0	1.3	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Isopropylbenzene (Cumene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: WSW-7070

Sampled: 4/10/2024 11:51

Sample ID: 24D1426-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	0.25	0.50	0.25	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
n-Propylbenzene	0.24	0.50	0.11	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Styrene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Tetrachloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Toluene	1.3	0.50	0.11	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,3-Trichlorobenzene	ND	1.0	0.22	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,4-Trichlorobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1,1-Trichloroethane	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,1,2-Trichloroethane	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Trichloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Trichlorofluoromethane (Freon 11)	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,3-Trichloropropane	ND	1.0	0.27	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,2,4-Trimethylbenzene	1.3	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
1,3,5-Trimethylbenzene	0.53	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Vinyl Acetate	ND	20	1.7	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
Vinyl Chloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
m+p Xylene	4.6	1.0	0.25	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH
o-Xylene	1.1	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.9	70-130	4/12/24 16:07
Toluene-d8	99.9	70-130	4/12/24 16:07
4-Bromofluorobenzene	98.8	70-130	4/12/24 16:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: WSW-8

Sampled: 4/10/2024 10:56

Sample ID: 24D1426-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	2.0	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Benzene	3.9	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Bromobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Bromochloromethane	ND	0.50	0.32	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Bromoform	ND	1.0	0.30	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
2-Butanone (MEK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
n-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
sec-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
tert-Butylbenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Carbon Tetrachloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Chlorobenzene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Ethanol	ND	50	20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Chloroethane	ND	0.50	0.46	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Chloroform	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Chloromethane	ND	0.60	0.50	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
2-Chlorotoluene	ND	0.50	0.21	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
4-Chlorotoluene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,3-Dichlorobenzene	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,4-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,1-Dichloroethane	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2-Dichloroethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,1-Dichloroethylene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
cis-1,2-Dichloroethylene	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
trans-1,2-Dichloroethylene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2-Dichloropropane	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,3-Dichloropropane	ND	0.50	0.097	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
2,2-Dichloropropane	ND	0.50	0.33	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,1-Dichloropropene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Diisopropyl Ether (DIPE)	6.5	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Ethylbenzene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
2-Hexanone (MBK)	ND	5.0	1.3	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Isopropylbenzene (Cumene)	0.27	0.50	0.16	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Methyl tert-Butyl Ether (MTBE)	2.3	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: WSW-8

Sampled: 4/10/2024 10:56

Sample ID: 24D1426-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	0.50	0.25	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
n-Propylbenzene	0.20	0.50	0.11	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Styrene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Tetrachloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Toluene	ND	0.50	0.11	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2,3-Trichlorobenzene	ND	1.0	0.22	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2,4-Trichlorobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,1,1-Trichloroethane	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,1,2-Trichloroethane	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Trichloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Trichlorofluoromethane (Freon 11)	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2,3-Trichloropropane	ND	1.0	0.27	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,2,4-Trimethylbenzene	0.45	0.50	0.16	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
1,3,5-Trimethylbenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Vinyl Acetate	ND	20	1.7	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
Vinyl Chloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
m+p Xylene	1.3	1.0	0.25	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH
o-Xylene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 16:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	90.9	70-130	
Toluene-d8	99.5	70-130	
4-Bromofluorobenzene	99.0	70-130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: FB

Sampled: 4/10/2024 11:40

Sample ID: 24D1426-03

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	2.9	50	2.0	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Benzene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Bromobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Bromochloromethane	ND	0.50	0.32	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Bromodichloromethane	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Bromoform	0.87	1.0	0.30	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Bromomethane	ND	2.0	1.5	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
2-Butanone (MEK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
n-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
sec-Butylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
tert-Butylbenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Carbon Tetrachloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Chlorobenzene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Ethanol	ND	50	20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Chlorodibromomethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Chloroethane	ND	0.50	0.46	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Chloroform	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Chloromethane	ND	0.60	0.50	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
2-Chlorotoluene	ND	0.50	0.21	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
4-Chlorotoluene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,3-Dichlorobenzene	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,4-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,1-Dichloroethane	ND	0.50	0.15	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2-Dichloroethane	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,1-Dichloroethylene	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
cis-1,2-Dichloroethylene	ND	0.50	0.20	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
trans-1,2-Dichloroethylene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2-Dichloropropane	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,3-Dichloropropane	ND	0.50	0.097	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
2,2-Dichloropropane	ND	0.50	0.33	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,1-Dichloropropene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
cis-1,3-Dichloropropene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
trans-1,3-Dichloropropene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Diisopropyl Ether (DIPE)	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Ethylbenzene	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
2-Hexanone (MBK)	ND	5.0	1.3	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Isopropylbenzene (Cumene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Methylene Chloride	ND	5.0	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro

Sample Description:

Work Order: 24D1426

Date Received: 4/11/2024

Field Sample #: FB

Sampled: 4/10/2024 11:40

Sample ID: 24D1426-03

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	0.50	0.25	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
n-Propylbenzene	ND	0.50	0.11	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Styrene	ND	0.50	0.13	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.10	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Tetrachloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Toluene	0.15	0.50	0.11	µg/L	1	J	SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2,3-Trichlorobenzene	ND	1.0	0.22	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2,4-Trichlorobenzene	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,1,1-Trichloroethane	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,1,2-Trichloroethane	ND	0.50	0.18	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Trichloroethylene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Trichlorofluoromethane (Freon 11)	ND	0.50	0.14	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2,3-Trichloropropane	ND	1.0	0.27	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,2,4-Trimethylbenzene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
1,3,5-Trimethylbenzene	ND	0.50	0.17	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Vinyl Acetate	ND	20	1.7	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
Vinyl Chloride	ND	0.50	0.19	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
m+p Xylene	ND	1.0	0.25	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH
o-Xylene	ND	0.50	0.16	µg/L	1		SM21-23 6200B	4/12/24	4/12/24 13:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	86.0	70-130	4/12/24 13:04
Toluene-d8	100	70-130	4/12/24 13:04
4-Bromofluorobenzene	102	70-130	4/12/24 13:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B-SM21-23 6200B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
24D1426-01 [WSW-7070]	B371300	5	5.00	04/12/24
24D1426-02 [WSW-8]	B371300	5	5.00	04/12/24
24D1426-03 [FB]	B371300	5	5.00	04/12/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B371300 - SW-846 5030B

Blank (B371300-BLK1)

Prepared & Analyzed: 04/12/24

Acetone	ND	50	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	0.50	µg/L							
Styrene	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B371300 - SW-846 5030B

Blank (B371300-BLK1)

Prepared & Analyzed: 04/12/24

1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	0.50	µg/L							
Trichlorofluoromethane (Freon 11)	ND	0.50	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Acetate	ND	20	µg/L							
Vinyl Chloride	ND	0.50	µg/L							
m+p Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Surrogate: 1,2-Dichloroethane-d4	21.7		µg/L	25.0		86.9	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		100	70-130			

LCS (B371300-BS1)

Prepared & Analyzed: 04/12/24

Acetone	89.0	50	µg/L	100		89.0	70-130			†
Benzene	9.99	0.50	µg/L	10.0		99.9	70-130			
Bromobenzene	10.2	0.50	µg/L	10.0		102	70-130			
Bromochloromethane	10.8	0.50	µg/L	10.0		108	70-130			
Bromodichloromethane	11.2	0.50	µg/L	10.0		112	70-130			
Bromoform	10.4	0.50	µg/L	10.0		104	70-130			
Bromomethane	9.53	2.0	µg/L	10.0		95.3	60-140			†
2-Butanone (MEK)	90.0	5.0	µg/L	100		90.0	70-130			†
n-Butylbenzene	9.40	0.50	µg/L	10.0		94.0	70-130			
sec-Butylbenzene	9.16	0.50	µg/L	10.0		91.6	70-130			
tert-Butylbenzene	9.45	0.50	µg/L	10.0		94.5	70-130			
Carbon Tetrachloride	9.85	0.50	µg/L	10.0		98.5	70-130			
Chlorobenzene	10.6	0.50	µg/L	10.0		106	70-130			
Ethanol	80.0	50	µg/L	100		80.0	70-130			
Chlorodibromomethane	11.6	0.50	µg/L	10.0		116	70-130			
Chloroethane	9.61	0.50	µg/L	10.0		96.1	60-140			
Chloroform	10.1	0.50	µg/L	10.0		101	70-130			
Chloromethane	8.91	0.60	µg/L	10.0		89.1	60-140			†
2-Chlorotoluene	9.73	0.50	µg/L	10.0		97.3	70-130			
4-Chlorotoluene	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dibromoethane (EDB)	12.3	0.50	µg/L	10.0		123	70-130			
1,2-Dichlorobenzene	9.70	0.50	µg/L	10.0		97.0	70-130			
1,3-Dichlorobenzene	9.80	0.50	µg/L	10.0		98.0	70-130			
1,4-Dichlorobenzene	9.67	0.50	µg/L	10.0		96.7	70-130			
Dichlorodifluoromethane (Freon 12)	9.11	0.50	µg/L	10.0		91.1	60-140			†
1,1-Dichloroethane	9.40	0.50	µg/L	10.0		94.0	70-130			
1,2-Dichloroethane	11.5	0.50	µg/L	10.0		115	70-130			
1,1-Dichloroethylene	9.19	0.50	µg/L	10.0		91.9	70-130			
cis-1,2-Dichloroethylene	9.53	0.50	µg/L	10.0		95.3	70-130			
trans-1,2-Dichloroethylene	9.16	0.50	µg/L	10.0		91.6	70-130			
1,2-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
2,2-Dichloropropane	9.51	0.50	µg/L	10.0		95.1	70-130			†
1,1-Dichloropropene	9.69	0.50	µg/L	10.0		96.9	70-130			
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B371300 - SW-846 5030B

LCS (B371300-BS1)

Prepared & Analyzed: 04/12/24

Diisopropyl Ether (DIPE)	9.34	0.50	µg/L	10.0		93.4	70-130			
Ethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
2-Hexanone (MBK)	107	5.0	µg/L	100		107	70-130			†
Isopropylbenzene (Cumene)	10.3	0.50	µg/L	10.0		103	70-130			
p-Isopropyltoluene (p-Cymene)	9.47	0.50	µg/L	10.0		94.7	70-130			
Methyl tert-Butyl Ether (MTBE)	9.46	0.50	µg/L	10.0		94.6	70-130			
Methylene Chloride	9.43	5.0	µg/L	10.0		94.3	70-130			
4-Methyl-2-pentanone (MIBK)	105	5.0	µg/L	100		105	70-130			†
Naphthalene	8.32	0.50	µg/L	10.0		83.2	70-130			†
n-Propylbenzene	10.4	0.50	µg/L	10.0		104	70-130			
Styrene	10.8	0.50	µg/L	10.0		108	70-130			
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130			
Tetrachloroethylene	12.2	0.50	µg/L	10.0		122	70-130			
Toluene	10.9	0.50	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	9.25	1.0	µg/L	10.0		92.5	70-130			
1,2,4-Trichlorobenzene	9.85	0.50	µg/L	10.0		98.5	70-130			
1,1,1-Trichloroethane	9.90	0.50	µg/L	10.0		99.0	70-130			
1,1,2-Trichloroethane	10.9	0.50	µg/L	10.0		109	70-130			
Trichloroethylene	11.1	0.50	µg/L	10.0		111	70-130			
Trichlorofluoromethane (Freon 11)	10.6	0.50	µg/L	10.0		106	70-130			
1,2,3-Trichloropropane	11.3	0.50	µg/L	10.0		113	70-130			
1,2,4-Trimethylbenzene	9.72	0.50	µg/L	10.0		97.2	70-130			
1,3,5-Trimethylbenzene	10.8	0.50	µg/L	10.0		108	70-130			
Vinyl Acetate	94.8	20	µg/L	100		94.8	70-130			
Vinyl Chloride	9.28	0.50	µg/L	10.0		92.8	60-140			†
m+p Xylene	20.0	1.0	µg/L	20.0		100	70-130			
o-Xylene	10.0	0.50	µg/L	10.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	20.8		µg/L	25.0		83.3	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.8		µg/L	25.0		103	70-130			

LCS Dup (B371300-BSD1)

Prepared & Analyzed: 04/12/24

Acetone	92.3	50	µg/L	100		92.3	70-130	3.54	25	†
Benzene	9.89	0.50	µg/L	10.0		98.9	70-130	1.01	25	
Bromobenzene	10.0	0.50	µg/L	10.0		100	70-130	1.59	25	
Bromochloromethane	10.6	0.50	µg/L	10.0		106	70-130	1.31	25	
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130	3.71	25	
Bromoform	10.1	0.50	µg/L	10.0		101	70-130	2.83	25	
Bromomethane	9.07	2.0	µg/L	10.0		90.7	60-140	4.95	25	†
2-Butanone (MEK)	92.6	5.0	µg/L	100		92.6	70-130	2.84	25	†
n-Butylbenzene	9.77	0.50	µg/L	10.0		97.7	70-130	3.86	25	
sec-Butylbenzene	9.23	0.50	µg/L	10.0		92.3	70-130	0.761	25	
tert-Butylbenzene	9.42	0.50	µg/L	10.0		94.2	70-130	0.318	25	
Carbon Tetrachloride	9.80	0.50	µg/L	10.0		98.0	70-130	0.509	25	
Chlorobenzene	10.6	0.50	µg/L	10.0		106	70-130	0.00	25	
Ethanol	90.3	50	µg/L	100		90.3	70-130	12.1	25	
Chlorodibromomethane	11.0	0.50	µg/L	10.0		110	70-130	4.52	25	
Chloroethane	9.09	0.50	µg/L	10.0		90.9	60-140	5.56	25	
Chloroform	9.91	0.50	µg/L	10.0		99.1	70-130	2.29	25	
Chloromethane	8.76	0.60	µg/L	10.0		87.6	60-140	1.70	25	†
2-Chlorotoluene	9.99	0.50	µg/L	10.0		99.9	70-130	2.64	25	
4-Chlorotoluene	10.2	0.50	µg/L	10.0		102	70-130	0.890	25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B371300 - SW-846 5030B										
LCS Dup (B371300-BSD1)										
Prepared & Analyzed: 04/12/24										
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.0		118	70-130	3.65	25	
1,2-Dichlorobenzene	9.63	0.50	µg/L	10.0		96.3	70-130	0.724	25	
1,3-Dichlorobenzene	9.66	0.50	µg/L	10.0		96.6	70-130	1.44	25	
1,4-Dichlorobenzene	9.67	0.50	µg/L	10.0		96.7	70-130	0.00	25	
Dichlorodifluoromethane (Freon 12)	9.39	0.50	µg/L	10.0		93.9	60-140	3.03	25	†
1,1-Dichloroethane	9.48	0.50	µg/L	10.0		94.8	70-130	0.847	25	
1,2-Dichloroethane	10.4	0.50	µg/L	10.0		104	70-130	9.89	25	
1,1-Dichloroethylene	9.71	0.50	µg/L	10.0		97.1	70-130	5.50	25	
cis-1,2-Dichloroethylene	9.56	0.50	µg/L	10.0		95.6	70-130	0.314	25	
trans-1,2-Dichloroethylene	9.51	0.50	µg/L	10.0		95.1	70-130	3.75	25	
1,2-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130	0.270	25	
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	4.52	25	
2,2-Dichloropropane	9.58	0.50	µg/L	10.0		95.8	70-130	0.733	25	†
1,1-Dichloropropene	9.33	0.50	µg/L	10.0		93.3	70-130	3.79	25	
cis-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130	7.61	25	
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130	3.07	25	
Diisopropyl Ether (DIPE)	9.18	0.50	µg/L	10.0		91.8	70-130	1.73	25	
Ethylbenzene	10.5	0.50	µg/L	10.0		105	70-130	2.22	25	
2-Hexanone (MBK)	110	5.0	µg/L	100		110	70-130	2.55	25	†
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0		104	70-130	0.771	25	
p-Isopropyltoluene (p-Cymene)	9.57	0.50	µg/L	10.0		95.7	70-130	1.05	25	
Methyl tert-Butyl Ether (MTBE)	9.24	0.50	µg/L	10.0		92.4	70-130	2.35	25	
Methylene Chloride	9.28	5.0	µg/L	10.0		92.8	70-130	1.60	25	
4-Methyl-2-pentanone (MIBK)	103	5.0	µg/L	100		103	70-130	1.53	25	†
Naphthalene	8.77	0.50	µg/L	10.0		87.7	70-130	5.27	25	†
n-Propylbenzene	10.7	0.50	µg/L	10.0		107	70-130	2.57	25	
Styrene	10.8	0.50	µg/L	10.0		108	70-130	0.370	25	
1,1,2,2-Tetrachloroethane	11.1	0.50	µg/L	10.0		111	70-130	1.16	25	
Tetrachloroethylene	12.5	0.50	µg/L	10.0		125	70-130	2.76	25	
Toluene	10.7	0.50	µg/L	10.0		107	70-130	2.13	25	
1,2,3-Trichlorobenzene	9.59	1.0	µg/L	10.0		95.9	70-130	3.61	25	
1,2,4-Trichlorobenzene	9.80	0.50	µg/L	10.0		98.0	70-130	0.509	25	
1,1,1-Trichloroethane	9.99	0.50	µg/L	10.0		99.9	70-130	0.905	25	
1,1,2-Trichloroethane	10.8	0.50	µg/L	10.0		108	70-130	0.552	25	
Trichloroethylene	11.6	0.50	µg/L	10.0		116	70-130	4.66	25	
Trichlorofluoromethane (Freon 11)	10.3	0.50	µg/L	10.0		103	70-130	3.25	25	
1,2,3-Trichloropropane	11.3	0.50	µg/L	10.0		113	70-130	0.177	25	
1,2,4-Trimethylbenzene	9.69	0.50	µg/L	10.0		96.9	70-130	0.309	25	
1,3,5-Trimethylbenzene	10.9	0.50	µg/L	10.0		109	70-130	1.11	25	
Vinyl Acetate	92.0	20	µg/L	100		92.0	70-130	3.00	25	
Vinyl Chloride	9.13	0.50	µg/L	10.0		91.3	60-140	1.63	25	†
m+p Xylene	20.5	1.0	µg/L	20.0		102	70-130	2.27	25	
o-Xylene	10.0	0.50	µg/L	10.0		100	70-130	0.300	25	
Surrogate: 1,2-Dichloroethane-d4	20.8		µg/L	25.0		83.0	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SM21-23 6200B in Water</i>	
Acetone	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Ethanol	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SM21-23 6200B in Water</i>	
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Acetate	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
NC	North Carolina Div. of Water Quality	652	12/31/2024



Phone: 413-525-2332
 Fax: 413-525-6405

2ADING
 MF

https://www.pacelabs.com/
 CHAIN OF CUSTODY RECORD (North Carolina)

Doc # 379 Rev 2_01122021

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: **Cattin Engineers & Scientists**

Address: **1044 Washington St, Raleigh, NC**

Phone: **984-222-1214**

Project Name: **Man Store**

Project Location: **Pittsboro**

Project Number: **221042.03**

Project Manager: **Sean D'Neil**

Pace Analytical Quote Name/Number: **240410-2**

Invoice Recipient: **accounts.payable@cattinusa.com**

Sampled By: **S. Miller**

Requested Turnaround Time: 7-Day 10-Day 14-Day

Due Date: _____

Rush-Approval Required: 3-Day 4-Day

Data Delivery: EXCEL PDF

Format: **PDF**

Other: **HITS Daily Also**

CLP Like Data Pkg Required?

Email To: **sean.dneil@cattin**

Fax To #: **usa.com**

Client Sample ID / Description	Grab	Composite	Matrix Code	Conc Code
1 WSW - 7D7D	X		GW	U
2 WSW - 8	X		GW	U
3 FB	X		W	C

Requested Turnaround Time	7-Day	10-Day	14-Day
1			
2			
3			

Requested Turnaround Time	7-Day	10-Day	14-Day
1			
2			
3			

Requested Turnaround Time	7-Day	10-Day	14-Day
1			
2			
3			

Comments: **ALSO DIPE, EDB & MTBE**
ADD'l \$46 for shipping

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

North Carolina Detection Limit Requirements

2L GWPC SWSL IHSB MSCC

Other: _____

Program Information: DSCA UST/Trust Fund REC SWS Landfill IHSB Orphaned Landfill State Lead Other: _____

Project Entity: Government Federal City Municipality Brownfield School

Other: Chromatogram AIHA-LAP, LLC



FedEx Tracking

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DELIVERED

Thursday

4/11/24 at 9:48 AM

Signed for by: A.MULINARE

↓ Obtain proof of delivery

DELIVERY STATUS

Delivered

Report missing package

TRACKING ID

775899741791

FROM

RALEIGH, NC US

Label Created

4/10/24 12:43 PM

WE HAVE YOUR PACKAGE

RALEIGH, NC

4/10/24 4:28 PM

ON THE WAY

WINDSOR LOCKS, CT

4/11/24 7:54 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT

4/11/24 8:04 AM

DELIVERED

EAST LONGMEADOW, MA US

Delivered

4/11/24 at 9:48 AM

↓ View travel history

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

SUBMIT

MORE OPTIONS

	DC#_ Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Cutlin Engineers and Scientists
 Project Munn Sturg
 MCP/RCP Required MA
 Deliverable Package Requirement MA
 Location PA'Sboro
 PWSID# (When Applicable) MA
 Arrival Method:
 Courier Fed Ex Walk In Other
 Received By / Date / Time CMW 4/11/24 9:48
 Back-Sheet By / Date / Time LA 4/11/24 13:39
 Temperature Method gun #6
 Temp < 6° C Actual Temperature 2v1
 Rush Samples: Yes / No Notify _____
 Short Hold: Yes / No Notify _____

Login Sample Receipt Checklist – (Rejection Criteria Listing
 – Using Acceptance Policy) Any False statement will be
 brought to the attention of the Client – True or False

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE _____ TIME _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/> Analysis <input checked="" type="checkbox"/>		Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/> IDs <input checked="" type="checkbox"/>		Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH: <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.



DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Sample					
																				Soils Jars (Circle Amb/Clear)					
																					16oz Amb/Clear	Soils Jars (Circle Amb/Clear)			
																							8oz Amb/Clear	Soils Jars (Circle Amb/Clear)	
																							4oz Amb/Clear		Soils Jars (Circle Amb/Clear)
																							2oz Amb/Clear		
																						Unpreserved	Ambers 1 Liter		
																						HCL		Ambers 1 Liter	
																						Sulfuric			Ambers 250mL
																						Sulfuric			
																						Phosphoric	Ambers 250mL		
																						HCl		Ambers 100mL	
																						Unpreserved			Plastics 100mL
																						Unpreserved			
																						Sulfuric	Plastics 1 Liter		
																						Unpreserved		Plastics 500mL	
																						Sulfuric			Plastics 500mL
																						Unpreserved			
																						Trizma	Plastics 250mL		
																						Sulfuric		Plastics 250mL	
																						Nitric			Plastics 250mL
																						NaOH			
																						Ammonium Acetate	Plastics 250mL		
																						NaOH/Zinc		VOA Vials	
																						Unpreserved			VOA Vials
																						HCl			
																						MeOH	VOA Vials		
																						D.I. Water		Other / Fill in	
																						BiSulfate			Other / Fill in
																						Col/Bact			

(Handwritten initials: DW, HW)



Phone: 413-525-2332
Fax: 413-525-6405

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Doc # 379 Rev 2_01122021

CHAIN OF CUSTODY RECORD (North Carolina)

39 Spruce Street
East Longmeadow, MA 01028

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Catlin Engineers & Scientists
Address: 1044 Washington St Raleigh NC
Phone: 984-222-1214
Project Name: Mann Store
Project Location: Pittsboro
Project Number: 221042.03
Project Manager: Sean O'Neil
Pace Analytical Quote Name/Number: 240410-2
Invoice Recipient: accounts.payable@catlinusa.com
Sampled By: S. Miller

Requested Turnaround Time
7-Day 10-Day
Due Date: _____
Rush-Approval Required
1-Day 3-Day
2-Day 4-Day
Data Delivery
Format: PDF EXCEL
Other: Hits Only Also
CLP Like Data Pkg Required:
Email To: sean.oneil@catlin
Fax To #: usa.com

Requested Turnaround Time		7-Day	10-Day	Due Date
<input type="checkbox"/>	<input checked="" type="checkbox"/>			

of Containers
2 Preservation Code
3 Container Code
Dissolved Metals Samples
 Field Filtered
 Lab to Filter
Orthophosphate Samples
 Field Filtered
 Lab to Filter

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
	WSW - 707D	4-10-24	1056 1131		X	GW	U
	WSW - 8	↓	1131	1056	X	GW	U
	FB	↓	1140	(SM)	X	W	C

Comments: Also DIPE, EDB + MTBE
Add'l \$46 for shipping

Please use the following codes to indicate possible sample concentration with the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

2 Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature) Sandra Miller Date/Time: 4-10-24
Received by: (signature) Mr. J. PACE Date/Time: 4-10-24/1300
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____

North Carolina Detection Limit Requirements
 2L
 GWPC
 SWSL
 IHSB
 MSCC
Other: _____

Project Entity
 Government Municipality
 Federal Brownfield
 City School

Program Information
 DSCA UST/Trust Fund
 SWS Landfill REC
 IHSB Orphaned Landfill
 State Lead
 Other: _____

NELAC and AIHA-LAP, LLC Accredited

Other
 Chromatogram
 AIHA-LAP, LLC

ATTACHMENT E

TABLES

**TABLE 1
PUBLIC AND PRIVATE WATER SUPPLY WELLS AND OTHER RECEPTOR INFORMATION**

Incident Name and No.: Mann Store - 6281

Well #	Well Owner / User	Type of Well	Well Casing Depth	Distance (ft.) / Direction from Source	Gradient from Source
WSW-1	Lauraine Rivier	Unknown	Unknown	900 / NW	Lower
WSW-1B	Lauraine Rivier	Unknown	Unknown	350 / NW	Lower
WSW-2	Michael & Sharon Owens	Unknown	Unknown	1,000 / NW	Lower
WSW-3	Jean and Donald Stubbs	Unknown	Unknown	1,250 / NNW	Lower
WSW-4	Piedmont Farm Animal Refuge	Unknown	Unknown	975 / N	Lower
WSW-5	Susan Johnson	Unknown	Unknown	1,000 / NE	Lower
WSW-6	Sandra Fogleman	Unknown	Unknown	475 / SW	Higher
WSW-7	Sandra Fogleman	Unknown	Unknown	650 / SSW	Higher
WSW-8	Rhonda Lemons (Morris's daughter)	Unknown	Unknown	50 / S	Higher
WSW-7070	Ronald Vaughn	Unknown	Unknown	190 / NNE	Higher

Receptor ID	Description	Usage	Distance (ft) / Direction from Source	Gradient from Source
Pond 1	Farm Pond	Farm Pond	525 / NW	Lower
Stream 1	Long Branch Stream	Surface Water Body	1,450 / S	Higher
Stream 2	Intermittened Stream	Surface Water Body	1,000 / NE	Lower

Information obtained from S&ME (2019).

ft. = feet

TABLE 2
SUMMARY OF GROUNDWATER LABORATORY RESULTS — STANDARD METHOD 6200B

Incident Name and No.: Mann Store - 6281

Contaminant of Concern →		Acetone	Benzene	Bromoform	Chloroform	Diisopropyl Ether (DIPE)	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other SM 6200B Analytes
Well/ Sample ID	Date Collected (mm/dd/yy)															
WSW-8	04/10/24	<2.0	3.9	<0.30	<0.19	6.5	<0.14	0.27 J	2.3	<0.25	0.20 J	<0.11	0.45 J	<0.17	<1.46*	BMDL
WSW-7070	04/10/24	<2.0	<u>19</u>	<0.30	0.32 J	2.2	2.8	<0.16	<0.17	0.25 J	0.24 J	1.3	1.3	0.53	5.7	BMDL
Field Blank / FB	04/10/24	2.9 J	<0.14	0.87 J	<0.19	<0.17	<0.14	<0.16	<0.17	<0.25	<0.11	0.15 J	<0.16	<0.17	<0.41	BMDL
GCL (µg/L)		6,000,000	5,000	4,000	70,000	70,000	80,000	30,500	20,000	6,000	26,100	260,000	28,500	24,100	50,000	Varies
2L GWQS (µg/L)		6,000	1	4	70	70	600	70	20	6	70	600	400	400	500	Varies
MCL (µg/L)		NE	5	80	80	NE	700	NE	NE	NE	NE	1,000	NE	NE	10,000	Varies

All results in micrograms per liter (µg/L).

BMDL = Below Method Detection Limit (refer to analytical report for a complete list of analytes and detection limits)

GCL = Gross Contaminant Level

2L GWQS = NCAC T15A:02L Groundwater Quality Standards

MCL = Maximum Contaminant Level

NE = Not Established

Bold results indicate concentrations above 2L GWQS.

Underlined results indicate concentrations above MCL.

< = Less than Method Detection Limit.

* = The value represents the sum of the reported practical quantitation limit of one analyte and the detected concentration of the other analyte.

J = Detected but below the Reporting Limit (lowest calibration standard); result is an estimated concentration (CLP J-Flag).

TABLE 3
SUMMARY OF HISTORICAL GROUNDWATER LABORATORY RESULTS — STANDARD METHOD 6200B

Incident Name and No.: Mann Store - 6281

Contaminant of Concern →																
Well Type	Well/ Sample ID	Date Collected (mm/dd/yy)	Benzene	sec-Butylbenzene	Chloroform	Diisopropyl Ether (DIPE)	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether (MTBE)	Naphthalene	n-Propylbenzene	Toluene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Total Xylenes	All Other SM 6200B Analytes
Water Supply	WSW-8	05/24/22	<0.20	<0.11	BMDL	4.3	<0.21	<0.11	4.6	<0.24	<0.086	<0.22	<0.20	<0.11	<0.69	BMDL
		09/28/22	<0.20	<0.11	BMDL	5.4	<0.21	<0.11	6.4	<0.24	<0.086	<0.22	<0.20	<0.11	<0.69	BMDL
		02/28/23	13	0.16 J	BMDL	9.0	<0.22	0.66	2.1	0.39 J	0.74	0.38 J	1.1	0.38 J	<3.04*	BMDL
		12/12/23	10	0.15 J	<0.14	10	<0.22	0.39 J	3.1	<0.38	0.39 J	<0.22	0.63	0.18 J	<2.14*	BMDL
		04/10/24	3.9	<0.16	<0.19	6.5	<0.14	0.27 J	2.3	<0.25	0.20 J	<0.11	0.45 J	<0.17	<1.46*	BMDL
	WSW-7070	12/20/23	5.0	<0.13	0.52	1.1	0.55	<0.15	<0.17	<0.38	<0.12	1.4	<0.20	<0.15	1.29 J	BMDL
		04/10/24	19	<0.16	0.32 J	2.2	2.8	<0.16	<0.17	0.25 J	0.24 J	1.3	1.3	0.53	5.7	BMDL
GCL (µg/L)			5,000	8,800	70,000	70,000	80,000	30,500	20,000	6,000	26,100	260,000	28,500	24,100	50,000	Varies
2L GWQS (µg/L)			1	70	70	70	600	70	20	6	70	600	400	400	500	Varies
MCL (µg/L)			5	NE	80	NE	700	NE	NE	NE	NE	1,000	NE	NE	10,000	Varies



2025-E Eastgate Drive
Greenville, North Carolina 27858
Telephone: (252) 758-3310
Facsimile: (252) 758-8835
www.gma-nc.com

06 FEB 22 AM 11:15

Groundwater Management Associates, Inc.

ORIGINAL

FILE COPY

February 16, 2006

Ms. Linda Blalock
UST Section
Division of Waste Management
NC Department of Environment and Natural Resources
1637 Mail Service Center
Raleigh, North Carolina 27699-1637

Re: Analytical Results of a Water-Supply Well Sampling Event
Mann Store, Pittsboro, Chatham County (TF-6281)

Dear Linda:

On January 3, 2006, Groundwater Management Associates, Inc. (GMA) sampled four water-supply wells (WSW-1, WSW-4, WSW-7 and WSW-8) located near the Mann Store, Pittsboro, Chatham County (Figures 1 and 2). These wells provide potable water to predominantly residential properties located along Castle Rock Farm Road and Highway 87 (Figure 2). Property owners and well identification numbers shown in Figure 2 are identified in Table 1. Water-supply well WSW-7 on Lot 7 also supplies water to the home on the lot to the north (Lot 6). GMA was not able to sample the well serving the Johnson property (WSW-5, Table 1) because the only outside spigot was dry. The Old Trailer Park well could not be sampled because the spigot produced no water after approximately one minute. It appeared that the electricity to the pump may have been off. All water-supply well samples were submitted to a NC Certified Laboratory, Prism Laboratories Inc. (Prism), for analysis of dissolved volatile petroleum hydrocarbons and lead, and this report summarizes sampling procedures and the analytical results.

GMA was also tasked with photographing the adjacent property to the north and inquiring about its future use. GMA spoke with Mr. Ronnie Vaughn, whose mother-in-law (Mrs. Muriel A Mann) owns both the site and the adjacent property to the north. He said that he and his wife (Glenette Vaughn) are managing the property for her mother. He stated that the mobile homes on the property to the north were moved because the land was marshy, and that they do not intend to build any structures on the lot in the future. Photographs of the lot are provided in Appendix I.

Sampling Procedures and Analytical Methods

All samples were collected on January 3, 2006, from outside taps at or as close as possible to each

wellhead. All wells were purged for 15 minutes prior to sample collection. Disposable latex gloves were worn during sample collection in order to prevent cross contamination of samples. Volatile organic carbon samples were collected in triplicate in zero headspace, pre-preserved, 40 milliliter glass vials, and lead samples were collected in 500 milliliter plastic containers. Field notes are provided in Appendix II. Samples were placed immediately in an ice-filled cooler and delivered by courier under chain-of-custody protocol to Prism for analysis. All samples were analyzed by EPA Method 6210D plus methyl tert-butyl ether (MTBE), isopropyl ether (IPE), and ethylene dibromide (EDB), and by EPA preparation Method 3030C for lead.

Results

Analytical results are summarized in Table 2, and the full laboratory report is provided in Appendix III. GMA mailed copies of the individual well sample laboratory reports to the owners of wells WSW-4 and WSW-7 on February 16, 2006, and letters containing analytical results were to be sent to the owners of wells WSW-1 and WSW-8 by your office. A detectable concentration of at least one targeted compound was present in water samples collected from wells WSW-1 and WSW-8 (Table 2). The sample from well WSW-1 (McGinty) contained 18 micrograms per liter ($\mu\text{g/L}$) lead, which exceeds the 15A NCAC 2L groundwater standard for lead of 15 $\mu\text{g/L}$. The sample from well WSW-8 (Morris) contained 4.4 $\mu\text{g/L}$ benzene, 13 $\mu\text{g/L}$ IPE, and 4.6 $\mu\text{g/L}$ MTBE. The 15A NCAC 2L groundwater standard for benzene is 1 $\mu\text{g/L}$, which is lower than the concentration detected in the sample from well WSW-8. The concentrations of IPE and MTBE detected in the well did not exceed the respective 15A NCAC 2L groundwater standards. The U.S. EPA's maximum contaminant level (MCL) for benzene in drinking water is 5 $\mu\text{g/L}$, above the concentration detected in the sample from well WSW-8.

Conclusions and Recommendations

On January 3, 2006, GMA sampled 4 potable water-supply wells (WSW-1, WSW-4, WSW-7, and WSW-8) located near the Mann Store (TF-6281) using standard methods. GMA was not able to sample the well serving the Johnson property (WSW-5) because the only outside spigot was dry. The Old Trailer Park well could not be sampled because the spigot produced no water after approximately one minute. Water-supply well WSW-7 on Lot 7 also supplies water to the home on Lot 6 to the north. The water samples were analyzed by Prism for lead and for volatile organic hydrocarbons typical of gasoline.

The sample collected from well WSW-1 (McGinty) contained 18 $\mu\text{g/L}$ lead, and the sample from well WSW-8 (Morris) contained 4.4 $\mu\text{g/L}$ benzene, 13 $\mu\text{g/L}$ IPE, and 4.6 $\mu\text{g/L}$ MTBE. The 15A NCAC 2L groundwater standard for lead was exceeded in the sample from well WSW-1 and the 15A NCAC 2L groundwater standard for benzene was exceeded in the sample from well WSW-8. The volatile organic compound concentrations detected in well WSW-8 are similar to the concentrations measured in the sample collected on December 15, 2004 from the well (Table 2), and are indicative of petroleum

contamination. Benzene has been detected in the Morris water-supply well (WSW-8) in 1991 (17 $\mu\text{g/L}$), 1994 (11 $\mu\text{g/L}$), 1998 (34.5 $\mu\text{g/L}$), and 2000 (4.5 $\mu\text{g/L}$) by previous consultants, indicating a consistent pattern of contamination.

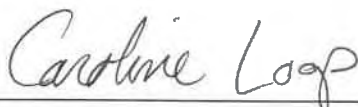
The lead concentration detected in the sample from well WSW-1 on January 3, 2006 was greater than the concentration measured in the sample collected on December 15, 2004 (1.3 $\mu\text{g/L}$), however, because no volatile organic carbon compounds were detected in either sample from WSW-1, it is not thought that the lead concentration detected was associated with a petroleum release.

Based on the detectable concentrations of lead (WSW-1) and volatile organic compounds (WSW-8) in water-supply wells surrounding the Mann Store site, GMA makes the following recommendations:

- The State Toxicologist should evaluate the analytical data for samples collected on January 3, 2006, from wells WSW-1 and WSW-8 to determine appropriate well use.
- All at-risk water-supply wells in the area should be monitored on a regular basis.
- The nature and concentrations of source-area contaminants at the Mann Store site should be investigated to determine if remediation is feasible.

Please contact Jay Holley or me at (252) 758-3310 or by email if you have any questions or comments.

Sincerely,
Groundwater Management Associates, Inc.



Caroline M. Loop, PhD, PG
Hydrogeologist



Attachments: Figures
Tables
Appendix I
Appendix II
Appendix III

FIGURES

SITE LOCATION



● SITE

SILK HOPE QUADRANGLE
 NORTH CAROLINA - CHATHAM COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)

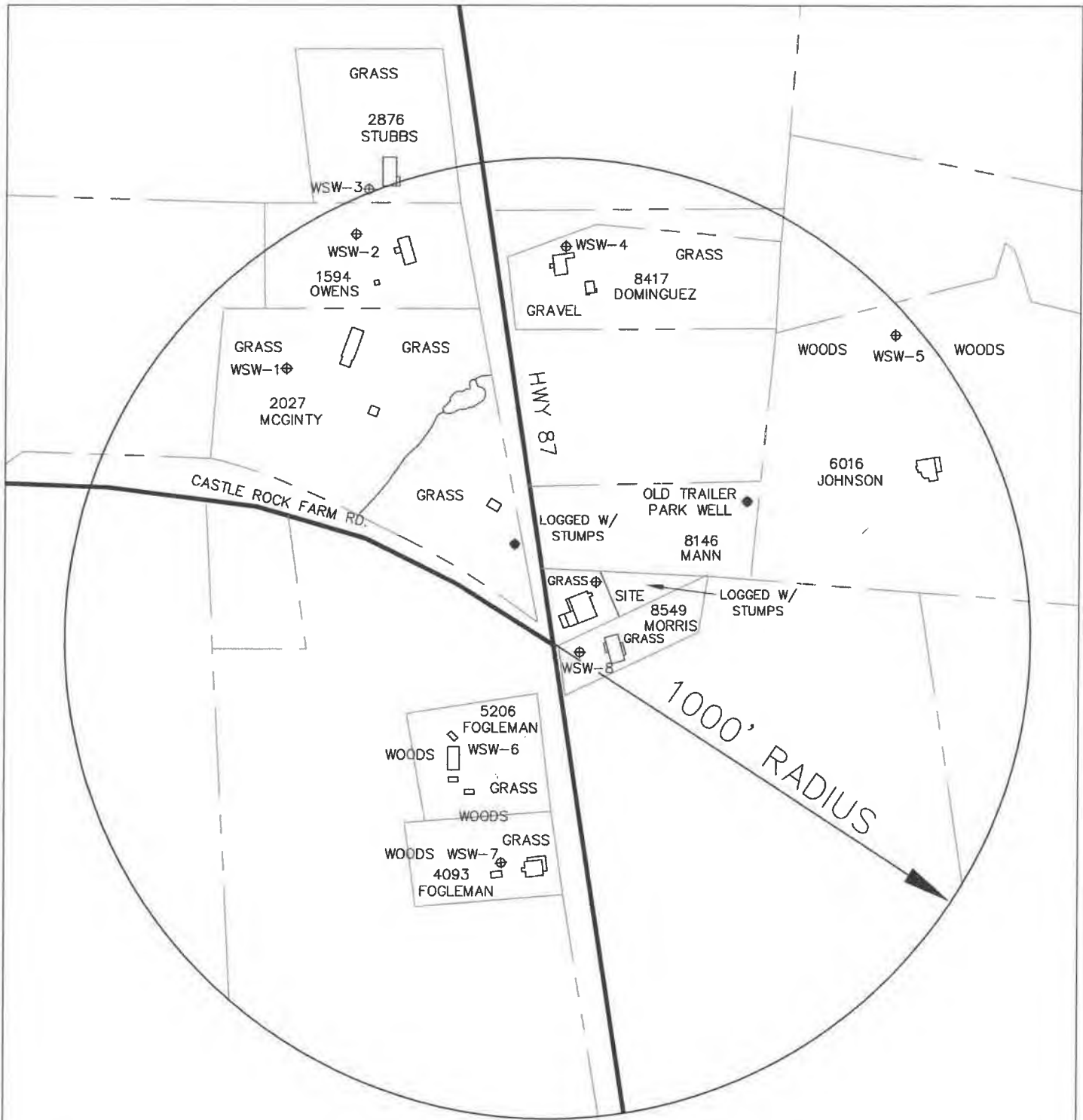
MANN STORE
 PITTSBORO, CHATHAM COUNTY, NC

FIGURE 1



GROUNDWATER MANAGEMENT ASSOCIATES, INC.
 2025-E EASTGATE DRIVE
 GREENVILLE, NORTH CAROLINA 27858

2/1/2005
 PROJECT 18428



⊕ ACTIVE WATER SUPPLY WELL
 ● INACTIVE WATER SUPPLY WELL
 8549 PIN NUMBER (LAST 4-DIGITS)



0 150 300
 SCALE: 1 in = 300 ft.



File: GJR\GMA\18428 SITE	LOCATION OF WATER SUPPLY WELLS (TF-6281)	Date: 2/16/2006
Project No. 18428	MANN STORE, CHATHAM COUNTY, PITTSBORO, NC	Figure 2

TABLES

**Table 1. Water-Supply Well Information for Properties within 1,000 Feet of the Site
Mann Store, Pittsboro, Chatham County (TF-6281)**

Parcel #	PIN Number	Physical Site Address	Property Owner Mailing Address	WSW Designation
1	9724-58-2027	180 Castle Rock Farm Rd Pittsboro NC 27312	Herbert and Kimberly McGinty 180 Castle Rock Farm Rd Pittsboro NC 27312	WSW-1 Sampled 1/3/06
2	9724-58-1594	7239 NC 87 N Pittsboro NC 27312	Michael and Sharon Owens 4716 Greenhill Rd Snow Camp NC 27349	WSW-2
3	9724-58-2876	7267 NC 87 N Pittsboro NC 27312	Donald and Jean Stubbs 7267 NC 87 N Pittsboro NC 27312	WSW-3
4	9724-58-8417	NC 87 N Pittsboro NC 27312	David and Kelly Dominguez PO Box 201 Pittsboro NC 27312	WSW-4 Sampled 1/3/06
5	9724-68-6016	7192 NC 87 N Pittsboro NC 27312	Susan Johnson 7192 NC 87 N Pittsboro NC 27312	WSW-5
6	9724-57-5206	6989 NC 87 N Pittsboro NC 27312	Sandra Fogleman 6941 NC 87 N Pittsboro NC 27312	WSW-6
7	9724-57-4093	6941 NC 87 N Pittsboro NC 27312	Sandra Fogleman 6941 NC 87 N Pittsboro NC 27312	WSW-7 Sampled 1/3/06
8	9724-57-8549	7042 NC 87 N Pittsboro NC 27312	Clarence and Irene Morris 713 Pittsboro Goldston Rd Pittsboro NC 27312	WSW-8 Sampled 1/3/06

**Table 2. Analytical Results of Water Supply Well Samples
Mann Store, Pittsboro, Chatham County (TF-6281)**

Concentrations in micrograms per liter (ug/L) or parts per billion (ppb) NCAC, Title 15A, Subchapter 2L, Groundwater Quality Standards appear in (), where applicable										
Location	Date	Benzene (1)	Toluene (1000)	Ethylbenzene (29)	Xylenes (530)	MTBE (200)	EDB (0.0004)	IPE (70)	Lead (15)	
McGinty (parcel #1) (formerly Burch)	12/15/2004	<0.50	<0.50	<0.50	<1.50	<0.50	<0.02	<0.50	1.3J	
	1/3/2006	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	18	
Dominguez (parcel #4)	12/15/2004	<0.50	<0.50	<0.50	<1.50	<0.50	<0.02	<0.50	1.3J	
	1/3/2006	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<5.0	
Johnson (parcel #5)	12/15/2004	<0.50	<0.50	<0.50	<1.50	<0.50	<0.02	<0.50	15	
Fogelman (parcel #7)	12/15/2004	<0.50	<0.50	<0.50	<1.50	<0.50	<0.02	<0.50	3.0J	
	1/3/2006	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<5.0	
Morris (parcel #8)	12/15/2004	5.9	<0.50	<0.50	<1.50	6.2	<0.02	13	2.0J	
	1/3/2006	4.4	<0.50	<0.50	<1.5	4.6	<0.50	13	<5.0	
Old Trailer Well	12/15/2004	<0.50	<0.50	<0.50	<1.50	<0.50	<0.02	<0.50	140	

MTBE = methyl tert-butyl ether J = the analyte was positively identified but the value is estimated below the reporting limit.
IPE = isopropyl ether

EDB = 1,2-dibromoethane

APPENDIX I

PHOTOGRAPHS OF THE ADJACENT PROPERTY NORTH OF THE MANN STORE



North side of Mann Store and edge of the undeveloped property to the north.



Undeveloped property to the north of the Mann Store, facing east.



Undeveloped property to the north of the Mann Store, looking north along Highway 87.

APPENDIX II

COPY OF FIELD NOTES FROM 1/3/06

18428 MANN STORE

1-3-06 H. FROATS

WSW-1 17:30 180 Castle Rock Farm Rd
 WSW-4 17:10 7236 Hwy 87N
 WSW-8 18:45 7042 Hwy 87N
 WSW-7 16:55 6941 Hwy 87N

WSW-7 well serves son's house
 WSW-8 Rents game permission
 owners are retired and travel
 contact them -

WSW-5 7192 NC Hwy 87N -
 1/4 mile off Hwy 87 on dirt road,
 and that there was a horse to
 trailer. Unable to get water
 other water source around either
 a deer camp. Not sampled

Old Trailer Park Well - Well
 100' off well house (partially off)
 one all hooked up. Tarnish
 and stopped. Elective ditch

1-3-06 MANN STORE 18428

← 919-542-3375

Ronnie Vaughn son-in-law of Mann
 store owner met me at Old Trailer Park
 well, Mother-in-law owns this property
 too! Well is discontinued - Mother in
 law went into nursing home - she can't
 manage property - Ronnie claims it for her.
 ON lot # 6.

to sample (Jessica Wimberty) -
 out of state frequently. I can't

Consent of 2 Camper trailers
 Owner told me I could sample
 sample from behind second
 from back. Did not see any
 trailer - site appears to be

house next to utility pole. I did
 pressure tank, electric lines
 adjacent on, had ran 2 minutes
 appear to be on. NOT Sampled.

APPENDIX III

**COPY OF LABORATORY REPORT
AND CHAIN-OF-CUSTODY FORM**

Case Narrative



Date: 01/16/06

Company: DENR Division of Waste Management
Contact: c/o GMA/James Holley
Address: 2025-E Eastgate Drive
Greenville, NC 27858

Client Project ID: 18428
Client Project Name or No: FTF #6281
Prism COC Group No: G0106073
Collection Date(s): 01/03/06
Lab Submittal Date: 01/04/06

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 20 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A Key Reference for the data qualifiers appears at the bottom of this page. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Please call if you have any questions relating to this analytical report.

Data Reviewed by: Robbi A. Jones
Signature: Robbi A. Jones
Review Date: 01/16/06

Project Manager: Angela D. Overcash
Signature: Angela D. Overcash
Approval Date: 01/16/06

Data Qualifier Key Reference:

- #: Result outside of QC Limits
- B: Compound also detected in the method blank
- DO: Compound diluted out
- E: Estimated concentration, calibration range exceeded
- J: The analyte was positively identified but the value is estimated below the reporting limit
- JH: Estimated concentration with a high bias
- JL: Estimated concentration with a low bias
- M: A matrix effect is present
- T: Tentatively identified compound. The concentration is estimated.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.

449 Springbrook Road, P. O. Box 240543, Charlotte, NC 28224-0403
Phone: 704/529-6364 Toll Free: 800/529-6364 Fax: 704/525-0409



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-1
 Prism Sample ID: 138610
 COC Group: G0106073
 Time Collected: 01/03/06 17:30
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,1,1-Trichloroethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,1,2,2-Tetrachloroethane	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,1,2-Trichloroethane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,1-Dichloroethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,1-Dichloroethene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,1-Dichloropropene	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2,3-Trichlorobenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2,3-Trichloropropane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2,4-Trichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2,4-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2-Dibromo-3-chloropropane	BRL	µg/L	5.0	0.71	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2-Dibromoethane (EDB)	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2-Dichlorobenzene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2-Dichloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,2-Dichloropropane	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,3,5-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,3-Dichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,3-Dichloropropane	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
1,4-Dichlorobenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
2,2-Dichloropropane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
2-Chlorotoluene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
4-Chlorotoluene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Benzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Bromobenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Bromochloromethane	BRL	µg/L	0.50	0.24	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Bromodichloromethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-1
 Prism Sample ID: 138610
 COC Group: G0106073
 Time Collected: 01/03/06 17:30
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromoform	BRL	µg/L	0.50	0.22	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Bromomethane	BRL	µg/L	0.50	0.39	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Carbon tetrachloride	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Chlorobenzene	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Chlorodibromomethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Chloroethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Chloroform	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Chloromethane	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
cis-1,2-Dichloroethene	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Dibromomethane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Dichlorodifluoromethane	BRL	µg/L	5.0	0.24	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Ethylbenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Hexachlorobutadiene	BRL	µg/L	0.50	0.28	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Isopropyl ether (IPE)	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Isopropylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
m,p-Xylenes	BRL	µg/L	1.0	0.19	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Methyl t-butyl ether (MTBE)	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Methylene chloride	BRL	µg/L	5.0	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
n-Butylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
n-Propylbenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Naphthalene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
o-Xylene	BRL	µg/L	0.50	0.080	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
p-Isopropyltoluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
sec-Butylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Styrene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
tert-Butylbenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Tetrachloroethene	BRL	µg/L	0.50	0.21	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Toluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749

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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-1
 Prism Sample ID: 138610
 COC Group: G0106073
 Time Collected: 01/03/06 17:30
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Trichloroethene	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Trichlorofluoromethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749
Vinyl chloride	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 21:39	kcampigotto	Q11749

Surrogate	% Recovery	Control Limits
Toluene-d8	105	60 - 140
Dibromofluoromethane	102	60 - 140
Bromofluorobenzene	105	60 - 140

Metals by ICP

Lead	0.018	mg/L	0.0050	0.0011	1	6010B	01/06/06 19:36	mcampbell	Q11616
Sample Preparation:					50 mL / 50 mL	SM3030 C	01/05/06 11:55	cnguyen	P14334

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-4
 Prism Sample ID: 138611
 COC Group: G0106073
 Time Collected: 01/03/06 17:10
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,1,1-Trichloroethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,1,2,2-Tetrachloroethane	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,1,2-Trichloroethane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,1-Dichloroethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,1-Dichloroethene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,1-Dichloropropene	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2,3-Trichlorobenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2,3-Trichloropropane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2,4-Trichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2,4-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2-Dibromo-3-chloropropane	BRL	µg/L	5.0	0.71	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2-Dibromoethane (EDB)	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2-Dichlorobenzene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2-Dichloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,2-Dichloropropane	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,3,5-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,3-Dichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,3-Dichloropropane	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
1,4-Dichlorobenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
2,2-Dichloropropane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
2-Chlorotoluene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
4-Chlorotoluene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Benzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Bromobenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Bromochloromethane	BRL	µg/L	0.50	0.24	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Bromodichloromethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749

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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-4
 Prism Sample ID: 138611
 COC Group: G0106073
 Time Collected: 01/03/06 17:10
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromoform	BRL	µg/L	0.50	0.22	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Bromomethane	BRL	µg/L	0.50	0.39	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Carbon tetrachloride	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Chlorobenzene	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Chlorodibromomethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Chloroethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Chloroform	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Chloromethane	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
cis-1,2-Dichloroethene	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Dibromomethane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Dichlorodifluoromethane	BRL	µg/L	5.0	0.24	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Ethylbenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Hexachlorobutadiene	BRL	µg/L	0.50	0.28	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Isopropyl ether (IPE)	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Isopropylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
m,p-Xylenes	BRL	µg/L	1.0	0.19	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Methyl t-butyl ether (MTBE)	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Methylene chloride	BRL	µg/L	5.0	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
n-Butylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
n-Propylbenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Naphthalene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
o-Xylene	BRL	µg/L	0.50	0.080	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
p-Isopropyltoluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
sec-Butylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Styrene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
tert-Butylbenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Tetrachloroethene	BRL	µg/L	0.50	0.21	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Toluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749

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 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-4
 Prism Sample ID: 138611
 COC Group: G0106073
 Time Collected: 01/03/06 17:10
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Trichloroethene	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Trichlorofluoromethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749
Vinyl chloride	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:04	kcampigotto	Q11749

Surrogate	% Recovery	Control Limits
Toluene-d8	104	60 - 140
Dibromofluoromethane	101	60 - 140
Bromofluorobenzene	103	60 - 140

Metals by ICP

Lead	BRL	mg/L	0.0050	0.0011	1	6010B	01/06/06 19:57	mcampbell	Q11616
Sample Preparation:					50 mL / 50 mL	SM3030 C	01/05/06 11:55	cnguyen	P14334

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-7
 Prism Sample ID: 138612
 COC Group: G0106073
 Time Collected: 01/03/06 16:55
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1,2-Tetrachloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,1,1-Trichloroethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,1,2,2-Tetrachloroethane	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,1,2-Trichloroethane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,1-Dichloroethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,1-Dichloroethene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,1-Dichloropropene	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2,3-Trichlorobenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2,3-Trichloropropane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2,4-Trichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2,4-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2-Dibromo-3-chloropropane	BRL	µg/L	5.0	0.71	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2-Dibromoethane (EDB)	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2-Dichlorobenzene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2-Dichloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,2-Dichloropropane	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,3,5-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,3-Dichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,3-Dichloropropane	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
1,4-Dichlorobenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
2,2-Dichloropropane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
2-Chlorotoluene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
4-Chlorotoluene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Benzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Bromobenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Bromochloromethane	BRL	µg/L	0.50	0.24	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Bromodichloromethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749

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Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-7
 Prism Sample ID: 138612
 COC Group: G0106073
 Time Collected: 01/03/06 16:55
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromoform	BRL	µg/L	0.50	0.22	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Bromomethane	BRL	µg/L	0.50	0.39	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Carbon tetrachloride	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Chlorobenzene	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Chlorodibromomethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Chloroethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Chloroform	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Chloromethane	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
cis-1,2-Dichloroethene	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Dibromomethane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Dichlorodifluoromethane	BRL	µg/L	5.0	0.24	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Ethylbenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Hexachlorobutadiene	BRL	µg/L	0.50	0.28	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Isopropyl ether (IPE)	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Isopropylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
m,p-Xylenes	BRL	µg/L	1.0	0.19	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Methyl t-butyl ether (MTBE)	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Methylene chloride	BRL	µg/L	5.0	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
n-Butylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
n-Propylbenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Naphthalene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
o-Xylene	BRL	µg/L	0.50	0.080	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
p-Isopropyltoluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
sec-Butylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Styrene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
tert-Butylbenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Tetrachloroethene	BRL	µg/L	0.50	0.21	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Toluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-7
 Prism Sample ID: 138612
 COC Group: G0106073
 Time Collected: 01/03/06 16:55
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Trichloroethene	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Trichlorofluoromethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749
Vinyl chloride	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:29	kcampigotto	Q11749

Surrogate	% Recovery	Control Limits
Toluene-d8	94	60 - 140
Dibromofluoromethane	92	60 - 140
Bromofluorobenzene	93	60 - 140

Metals by ICP

Lead	BRL	mg/L	0.0050	0.0011	1	6010B	01/06/06 20:04	mcampbell	Q11616
Sample Preparation:						50 mL / 50 mL SM3030 C	01/05/06 11:55	cnguyen	P14334

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-8
 Prism Sample ID: 138613
 COC Group: G0106073
 Time Collected: 01/03/06 15:45
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,1,1-Trichloroethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,1,2,2-Tetrachloroethane	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,1,2-Trichloroethane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,1-Dichloroethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,1-Dichloroethene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,1-Dichloropropene	BRL	µg/L	0.50	0.23	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2,3-Trichlorobenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2,3-Trichloropropane	BRL	µg/L	0.50	0.25	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2,4-Trichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2,4-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2-Dibromo-3-chloropropane	BRL	µg/L	5.0	0.71	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2-Dibromoethane (EDB)	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2-Dichlorobenzene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2-Dichloroethane	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,2-Dichloropropane	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,3,5-Trimethylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,3-Dichlorobenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,3-Dichloropropane	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
1,4-Dichlorobenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
2,2-Dichloropropane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
2-Chlorotoluene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
4-Chlorotoluene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Benzene	4.4	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Bromobenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Bromochloromethane	BRL	µg/L	0.50	0.24	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Bromodichloromethane	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-8
 Prism Sample ID: 138613
 COC Group: G0106073
 Time Collected: 01/03/06 15:45
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromofom	BRL	µg/L	0.50	0.22	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Bromomethane	BRL	µg/L	0.50	0.39	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Carbon tetrachloride	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Chlorobenzene	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Chlorodibromomethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Chloroethane	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Chloroform	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Chloromethane	BRL	µg/L	0.50	0.060	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
cis-1,2-Dichloroethene	BRL	µg/L	0.50	0.15	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Dibromomethane	BRL	µg/L	0.50	0.20	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Dichlorodifluoromethane	BRL	µg/L	5.0	0.24	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Ethylbenzene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Hexachlorobutadiene	BRL	µg/L	0.50	0.28	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Isopropyl ether (IPE)	13	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Isopropylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
m,p-Xylenes	BRL	µg/L	1.0	0.19	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Methyl t-butyl ether (MTBE)	4.6	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Methylene chloride	BRL	µg/L	5.0	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
n-Butylbenzene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
n-Propylbenzene	BRL	µg/L	0.50	0.11	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Naphthalene	BRL	µg/L	0.50	0.10	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
o-Xylene	BRL	µg/L	0.50	0.080	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
p-Isopropyltoluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
sec-Butylbenzene	BRL	µg/L	0.50	0.13	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Styrene	BRL	µg/L	0.50	0.12	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
tert-Butylbenzene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Tetrachloroethene	BRL	µg/L	0.50	0.21	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Toluene	BRL	µg/L	0.50	0.090	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749

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Laboratory Report

01/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281
 Sample Matrix: Water

Client Sample ID: WSW-8
 Prism Sample ID: 138613
 COC Group: G0106073
 Time Collected: 01/03/06 15:45
 Time Submitted: 01/04/06 15:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
trans-1,2-Dichloroethene	BRL	µg/L	0.50	0.17	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Trichloroethene	BRL	µg/L	0.50	0.16	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Trichlorofluoromethane	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749
Vinyl chloride	BRL	µg/L	0.50	0.18	1	SM6210 D	01/12/06 22:54	kcampigotto	Q11749

Surrogate	% Recovery	Control Limits
Toluene-d8	97	60 - 140
Dibromofluoromethane	96	60 - 140
Bromofluorobenzene	98	60 - 140

Metals by ICP

Lead	BRL	mg/L	0.0050	0.0011	1	6010B	01/06/06 20:11	mcampbell	Q11616
Sample Preparation:						50 mL / 50 mL	SM3030 C	01/05/06 11:55	cnguyen P14334

Sample Comment(s):

BRL = Below Reporting Limit

J = Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Metals by ICP, method 6010B

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Lead	0.0034 #	0.005	<0.0025	mg/L	Q11616

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Lead	0.261	0.25	mg/L	104	80 - 120	Q11616

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
138610 Lead	0.250	0.25	mg/L	93	75 - 125	Q11616

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
138610 Lead	0.261	0.25	mg/L	97	75 - 125	4	0 - 20	Q11616



NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Volatile Organic Compounds by GC/MS, method SM6210 D

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
1,1,1,2-Tetrachloroethane	ND	0.5	<0.25	µg/L	Q11749
1,1,1-Trichloroethane	ND	0.5	<0.25	µg/L	Q11749
1,1,2,2-Tetrachloroethane	ND	0.5	<0.25	µg/L	Q11749
1,1,2-Trichloroethane	ND	0.5	<0.25	µg/L	Q11749
1,1-Dichloroethane	ND	0.5	<0.25	µg/L	Q11749
1,1-Dichloroethene	ND	0.5	<0.25	µg/L	Q11749
1,1-Dichloropropene	ND	0.5	<0.25	µg/L	Q11749
1,2,3-Trichlorobenzene	ND	0.5	<0.25	µg/L	Q11749
1,2,3-Trichloropropane	ND	0.5	<0.25	µg/L	Q11749
1,2,4-Trichlorobenzene	ND	0.5	<0.25	µg/L	Q11749
1,2,4-Trimethylbenzene	ND	0.5	<0.25	µg/L	Q11749
1,2-Dibromo-3-chloropropane	ND	5	<2.5	µg/L	Q11749
1,2-Dibromoethane (EDB)	ND	0.5	<0.25	µg/L	Q11749
1,2-Dichlorobenzene	ND	0.5	<0.25	µg/L	Q11749
1,2-Dichloroethane	ND	0.5	<0.25	µg/L	Q11749
1,2-Dichloropropane	ND	0.5	<0.25	µg/L	Q11749
1,3,5-Trimethylbenzene	ND	0.5	<0.25	µg/L	Q11749
1,3-Dichlorobenzene	ND	0.5	<0.25	µg/L	Q11749
1,3-Dichloropropane	ND	0.5	<0.25	µg/L	Q11749
1,4-Dichlorobenzene	ND	0.5	<0.25	µg/L	Q11749
2,2-Dichloropropane	ND	0.5	<0.25	µg/L	Q11749
2-Chlorotoluene	ND	0.5	<0.25	µg/L	Q11749
4-Chlorotoluene	ND	0.5	<0.25	µg/L	Q11749
Benzene	ND	0.5	<0.25	µg/L	Q11749
Bromobenzene	ND	0.5	<0.25	µg/L	Q11749
Bromochloromethane	ND	0.5	<0.25	µg/L	Q11749
Bromodichloromethane	ND	0.5	<0.25	µg/L	Q11749
Bromoform	ND	0.5	<0.25	µg/L	Q11749
Bromomethane	ND	0.5	<0.25	µg/L	Q11749
Carbon tetrachloride	ND	0.5	<0.25	µg/L	Q11749
Chlorobenzene	ND	0.5	<0.25	µg/L	Q11749
Chlorodibromomethane	ND	0.5	<0.25	µg/L	Q11749
Chloroethane	ND	0.5	<0.25	µg/L	Q11749
Chloroform	ND	0.5	<0.25	µg/L	Q11749
Chloromethane	ND	0.5	<0.25	µg/L	Q11749
cis-1,2-Dichloroethene	ND	0.5	<0.25	µg/L	Q11749
Dibromomethane	ND	0.5	<0.25	µg/L	Q11749
Dichlorodifluoromethane	ND	5	<2.5	µg/L	Q11749
Ethylbenzene	ND	0.5	<0.25	µg/L	Q11749
Hexachlorobutadiene	ND	0.5	<0.25	µg/L	Q11749
Isopropyl ether (IPE)	ND	0.5	<0.25	µg/L	Q11749
Isopropylbenzene	ND	0.5	<0.25	µg/L	Q11749

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NC Certification No. 402
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Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
m,p-Xylenes	ND	1	<0.5	µg/L	Q11749
Methyl t-butyl ether (MTBE)	ND	0.5	<0.25	µg/L	Q11749
Methylene chloride	ND	5	<2.5	µg/L	Q11749
n-Butylbenzene	ND	0.5	<0.25	µg/L	Q11749
n-Propylbenzene	ND	0.5	<0.25	µg/L	Q11749
Naphthalene	ND	0.5	<0.25	µg/L	Q11749
o-Xylene	ND	0.5	<0.25	µg/L	Q11749
p-Isopropyltoluene	ND	0.5	<0.25	µg/L	Q11749
sec-Butylbenzene	ND	0.5	<0.25	µg/L	Q11749
Styrene	ND	0.5	<0.25	µg/L	Q11749
tert-Butylbenzene	ND	0.5	<0.25	µg/L	Q11749
Tetrachloroethene	ND	0.5	<0.25	µg/L	Q11749
Toluene	ND	0.5	<0.25	µg/L	Q11749
trans-1,2-Dichloroethene	ND	0.5	<0.25	µg/L	Q11749
Trichloroethene	ND	0.5	<0.25	µg/L	Q11749
Trichlorofluoromethane	ND	0.5	<0.25	µg/L	Q11749
Vinyl chloride	ND	0.5	<0.25	µg/L	Q11749

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1,1,2-Tetrachloroethane	15.8	20	µg/L	79	60 - 140	Q11749
1,1,1-Trichloroethane	15.9	20	µg/L	80	60 - 140	Q11749
1,1,2,2-Tetrachloroethane	17.1	20	µg/L	85	60 - 140	Q11749
1,1,2-Trichloroethane	19.2	20	µg/L	96	60 - 140	Q11749
1,1-Dichloroethane	18.6	20	µg/L	93	60 - 140	Q11749
1,1-Dichloroethene	18.5	20	µg/L	92	60 - 140	Q11749
1,1-Dichloropropene	17.9	20	µg/L	90	60 - 140	Q11749
1,2,3-Trichlorobenzene	17.5	20	µg/L	87	60 - 140	Q11749
1,2,3-Trichloropropane	20.8	20	µg/L	104	60 - 140	Q11749
1,2,4-Trichlorobenzene	19.0	20	µg/L	95	60 - 140	Q11749
1,2,4-Trimethylbenzene	20.3	20	µg/L	101	60 - 140	Q11749
1,2-Dibromo-3-chloropropane	17.7	20	µg/L	88	60 - 140	Q11749
1,2-Dibromoethane (EDB)	16.8	20	µg/L	84	60 - 140	Q11749
1,2-Dichlorobenzene	19.1	20	µg/L	96	60 - 140	Q11749
1,2-Dichloroethane	18.8	20	µg/L	94	60 - 140	Q11749
1,2-Dichloropropane	19.5	20	µg/L	97	60 - 140	Q11749
1,3,5-Trimethylbenzene	20.6	20	µg/L	103	60 - 140	Q11749
1,3-Dichlorobenzene	19.4	20	µg/L	97	60 - 140	Q11749
1,3-Dichloropropane	18.2	20	µg/L	91	60 - 140	Q11749
1,4-Dichlorobenzene	19.5	20	µg/L	98	60 - 140	Q11749
2,2-Dichloropropane	17.5	20	µg/L	87	60 - 140	Q11749
2-Chlorotoluene	20.4	20	µg/L	102	60 - 140	Q11749
4-Chlorotoluene	20.3	20	µg/L	102	60 - 140	Q11749

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NC Certification No. 402
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
Benzene	18.3	20	µg/L	91	60 - 140	Q11749
Bromobenzene	20.3	20	µg/L	102	60 - 140	Q11749
Bromochloromethane	18.0	20	µg/L	90	60 - 140	Q11749
Bromodichloromethane	17.6	20	µg/L	88	60 - 140	Q11749
Bromoform	15.5	20	µg/L	78	60 - 140	Q11749
Bromomethane	19.9	20	µg/L	100	60 - 140	Q11749
Carbon tetrachloride	18.1	20	µg/L	90	60 - 140	Q11749
Chlorobenzene	17.9	20	µg/L	90	60 - 140	Q11749
Chlorodibromomethane	16.9	20	µg/L	85	60 - 140	Q11749
Chloroethane	18.9	20	µg/L	95	60 - 140	Q11749
Chloroform	19.1	20	µg/L	95	60 - 140	Q11749
Chloromethane	16.8	20	µg/L	84	60 - 140	Q11749
cis-1,2-Dichloroethene	19.1	20	µg/L	95	60 - 140	Q11749
Dibromomethane	19.1	20	µg/L	95	60 - 140	Q11749
Dichlorodifluoromethane	13.2	20	µg/L	66	60 - 140	Q11749
Ethylbenzene	18.0	20	µg/L	90	60 - 140	Q11749
Hexachlorobutadiene	18.1	20	µg/L	90	60 - 140	Q11749
Isopropyl ether (IPE)	19.7	20	µg/L	98	60 - 140	Q11749
Isopropylbenzene	21.3	20	µg/L	107	60 - 140	Q11749
m,p-Xylenes	41.2	40	µg/L	103	60 - 140	Q11749
Methyl t-butyl ether (MTBE)	17.2	20	µg/L	86	60 - 140	Q11749
Methylene chloride	18.2	20	µg/L	91	60 - 140	Q11749
n-Butylbenzene	21.6	20	µg/L	108	60 - 140	Q11749
n-Propylbenzene	21.2	20	µg/L	106	60 - 140	Q11749
Naphthalene	17.7	20	µg/L	89	60 - 140	Q11749
o-Xylene	18.3	20	µg/L	92	60 - 140	Q11749
p-Isopropyltoluene	20.9	20	µg/L	105	60 - 140	Q11749
sec-Butylbenzene	20.3	20	µg/L	101	60 - 140	Q11749
Styrene	17.6	20	µg/L	88	60 - 140	Q11749
tert-Butylbenzene	20.2	20	µg/L	101	60 - 140	Q11749
Tetrachloroethene	16.3	20	µg/L	82	60 - 140	Q11749
Toluene	18.4	20	µg/L	92	60 - 140	Q11749
trans-1,2-Dichloroethene	17.9	20	µg/L	89	60 - 140	Q11749
Trichloroethene	17.3	20	µg/L	86	60 - 140	Q11749
Trichlorofluoromethane	19.3	20	µg/L	97	60 - 140	Q11749
Vinyl chloride	17.4	20	µg/L	87	60 - 140	Q11749

Matrix Spike

Sample ID:		Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
138896	1,1,1,2-Tetrachloroethane	70.400	80	µg/L	88	60 - 140	Q11749
	1,1,1-Trichloroethane	71.480	80	µg/L	89	60 - 140	Q11749
	1,1,2,2-Tetrachloroethane	82.160	80	µg/L	103	60 - 140	Q11749
	1,1,2-Trichloroethane	80.720	80	µg/L	101	60 - 140	Q11749
	1,1-Dichloroethane	81.080	80	µg/L	101	60 - 140	Q11749

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NC Certification No. 402
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 NC Drinking Water Cert. No. 37735

Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
1,1-Dichloroethene	81.000	80	µg/L	101	60 - 140	Q11749
1,1-Dichloropropene	79.400	80	µg/L	99	60 - 140	Q11749
1,2,3-Trichlorobenzene	77.080	80	µg/L	96	60 - 140	Q11749
1,2,3-Trichloropropane	91.080	80	µg/L	114	60 - 140	Q11749
1,2,4-Trichlorobenzene	84.720	80	µg/L	106	60 - 140	Q11749
1,2,4-Trimethylbenzene	87.720	80	µg/L	110	60 - 140	Q11749
1,2-Dibromo-3-chloropropane	81.720	80	µg/L	102	60 - 140	Q11749
1,2-Dibromoethane (EDB)	72.520	80	µg/L	91	60 - 140	Q11749
1,2-Dichlorobenzene	82.720	80	µg/L	103	60 - 140	Q11749
1,2-Dichloroethane	77.920	80	µg/L	97	60 - 140	Q11749
1,2-Dichloropropane	83.400	80	µg/L	104	60 - 140	Q11749
1,3,5-Trimethylbenzene	92.760	80	µg/L	116	60 - 140	Q11749
1,3-Dichlorobenzene	84.640	80	µg/L	106	60 - 140	Q11749
1,3-Dichloropropane	76.040	80	µg/L	95	60 - 140	Q11749
1,4-Dichlorobenzene	84.040	80	µg/L	105	60 - 140	Q11749
2,2-Dichloropropane	87.280	80	µg/L	109	60 - 140	Q11749
2-Chlorotoluene	91.840	80	µg/L	115	60 - 140	Q11749
4-Chlorotoluene	87.280	80	µg/L	109	60 - 140	Q11749
Benzene	78.640	80	µg/L	98	60 - 140	Q11749
Bromobenzene	85.360	80	µg/L	107	60 - 140	Q11749
Bromochloromethane	77.040	80	µg/L	96	60 - 140	Q11749
Bromodichloromethane	78.560	80	µg/L	98	60 - 140	Q11749
Bromoform	68.400	80	µg/L	86	60 - 140	Q11749
Bromomethane	83.320	80	µg/L	104	60 - 140	Q11749
Carbon tetrachloride	85.840	80	µg/L	107	60 - 140	Q11749
Chlorobenzene	75.640	80	µg/L	95	60 - 140	Q11749
Chlorodibromomethane	73.400	80	µg/L	92	60 - 140	Q11749
Chloroethane	81.960	80	µg/L	102	60 - 140	Q11749
Chloroform	80.720	80	µg/L	101	60 - 140	Q11749
Chloromethane	73.360	80	µg/L	92	60 - 140	Q11749
cis-1,2-Dichloroethene	79.800	80	µg/L	100	60 - 140	Q11749
Dibromomethane	78.000	80	µg/L	98	60 - 140	Q11749
Dichlorodifluoromethane	57.400	80	µg/L	72	60 - 140	Q11749
Ethylbenzene	77.040	80	µg/L	96	60 - 140	Q11749
Hexachlorobutadiene	84.040	80	µg/L	105	60 - 140	Q11749
Isopropyl ether (IPE)	83.720	80	µg/L	105	60 - 140	Q11749
Isopropylbenzene	83.880	80	µg/L	105	60 - 140	Q11749
m,p-Xylenes	176.320	160	µg/L	110	60 - 140	Q11749
Methyl t-butyl ether (MTBE)	74.400	80	µg/L	93	60 - 140	Q11749
Methylene chloride	76.920	80	µg/L	96	60 - 140	Q11749
n-Butylbenzene	95.160	80	µg/L	119	60 - 140	Q11749
n-Propylbenzene	91.960	80	µg/L	115	60 - 140	Q11749
Naphthalene	80.040	80	µg/L	100	60 - 140	Q11749
o-Xylene	78.000	80	µg/L	98	60 - 140	Q11749

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Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
 c/o GMA
 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	QC Batch ID
p-Isopropyltoluene	91.680	80	µg/L	115	60 - 140	Q11749
sec-Butylbenzene	88.720	80	µg/L	111	60 - 140	Q11749
Styrene	75.520	80	µg/L	94	60 - 140	Q11749
tert-Butylbenzene	87.800	80	µg/L	110	60 - 140	Q11749
Tetrachloroethene	70.280	80	µg/L	88	60 - 140	Q11749
Toluene	79.040	80	µg/L	99	60 - 140	Q11749
trans-1,2-Dichloroethene	77.160	80	µg/L	96	60 - 140	Q11749
Trichloroethene	74.280	80	µg/L	93	60 - 140	Q11749
Trichlorofluoromethane	84.800	80	µg/L	106	60 - 140	Q11749
Vinyl chloride	76.600	80	µg/L	94	60 - 140	Q11749

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID	
138896	1,1,1,2-Tetrachloroethane	72.0	80	µg/L	90	60 - 140	2	0 - 20	Q11749
	1,1,1-Trichloroethane	71.2	80	µg/L	89	60 - 140	0	0 - 20	Q11749
	1,1,2,2-Tetrachloroethane	81.0	80	µg/L	101	60 - 140	1	0 - 20	Q11749
	1,1,2-Trichloroethane	79.5	80	µg/L	99	60 - 140	1	0 - 20	Q11749
	1,1-Dichloroethane	78.3	80	µg/L	98	60 - 140	4	0 - 20	Q11749
	1,1-Dichloroethene	75.9	80	µg/L	95	60 - 140	6	0 - 20	Q11749
	1,1-Dichloropropene	75.2	80	µg/L	94	60 - 140	5	0 - 20	Q11749
	1,2,3-Trichlorobenzene	77.6	80	µg/L	97	60 - 140	1	0 - 20	Q11749
	1,2,3-Trichloropropane	91.0	80	µg/L	114	60 - 140	0	0 - 20	Q11749
	1,2,4-Trichlorobenzene	82.3	80	µg/L	103	60 - 140	3	0 - 20	Q11749
	1,2,4-Trimethylbenzene	85.7	80	µg/L	107	60 - 140	2	0 - 20	Q11749
	1,2-Dibromo-3-chloropropane	86.2	80	µg/L	108	60 - 140	5	0 - 20	Q11749
	1,2-Dibromoethane (EDB)	73.2	80	µg/L	92	60 - 140	1	0 - 20	Q11749
	1,2-Dichlorobenzene	82.5	80	µg/L	103	60 - 140	0	0 - 20	Q11749
	1,2-Dichloroethane	77.2	80	µg/L	97	60 - 140	1	0 - 20	Q11749
	1,2-Dichloropropane	82.0	80	µg/L	103	60 - 140	2	0 - 20	Q11749
	1,3,5-Trimethylbenzene	91.0	80	µg/L	114	60 - 140	2	0 - 20	Q11749
	1,3-Dichlorobenzene	83.8	80	µg/L	105	60 - 140	1	0 - 20	Q11749
	1,3-Dichloropropane	76.1	80	µg/L	95	60 - 140	0	0 - 20	Q11749
	1,4-Dichlorobenzene	83.2	80	µg/L	104	60 - 140	1	0 - 20	Q11749
	2,2-Dichloropropane	89.8	80	µg/L	112	60 - 140	3	0 - 20	Q11749
	2-Chlorotoluene	89.0	80	µg/L	111	60 - 140	3	0 - 20	Q11749
	4-Chlorotoluene	85.5	80	µg/L	107	60 - 140	2	0 - 20	Q11749
	Benzene	77.0	80	µg/L	96	60 - 140	2	0 - 20	Q11749
	Bromobenzene	85.0	80	µg/L	106	60 - 140	0	0 - 20	Q11749
	Bromochloromethane	75.1	80	µg/L	94	60 - 140	3	0 - 20	Q11749
	Bromodichloromethane	78.6	80	µg/L	98	60 - 140	0	0 - 20	Q11749
	Bromoform	71.7	80	µg/L	90	60 - 140	5	0 - 20	Q11749
	Bromomethane	84.6	80	µg/L	106	60 - 140	1	0 - 20	Q11749
	Carbon tetrachloride	86.8	80	µg/L	109	60 - 140	1	0 - 20	Q11749
	Chlorobenzene	75.3	80	µg/L	94	60 - 140	0	0 - 20	Q11749

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Level II QC Report

1/16/06

DENR Division of Waste Management
 Attn: James Holley
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 2025-E Eastgate Dr.
 Greenville, NC 27858

Project ID: 18428
 Project No.: FTF# 6281

COC Group Number: G0106073
 Date/Time Submitted: 1/4/06 15:10

Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Range %	RPD %	RPD Range %	QC Batch ID
Chlorodibromomethane	75.5	80	µg/L	94	60 - 140	3	0 - 20	Q11749
Chloroethane	79.5	80	µg/L	99	60 - 140	3	0 - 20	Q11749
Chloroform	78.9	80	µg/L	99	60 - 140	2	0 - 20	Q11749
Chloromethane	71.3	80	µg/L	89	60 - 140	3	0 - 20	Q11749
cis-1,2-Dichloroethene	79.3	80	µg/L	99	60 - 140	1	0 - 20	Q11749
Dibromomethane	77.8	80	µg/L	97	60 - 140	0	0 - 20	Q11749
Dichlorodifluoromethane	56.6	80	µg/L	71	60 - 140	1	0 - 20	Q11749
Ethylbenzene	75.1	80	µg/L	94	60 - 140	3	0 - 20	Q11749
Hexachlorobutadiene	80.4	80	µg/L	101	60 - 140	4	0 - 20	Q11749
Isopropyl ether (IPE)	82.7	80	µg/L	103	60 - 140	1	0 - 20	Q11749
Isopropylbenzene	90.4	80	µg/L	113	60 - 140	7	0 - 20	Q11749
m,p-Xylenes	173	160	µg/L	108	60 - 140	2	0 - 20	Q11749
Methyl t-butyl ether (MTBE)	74.9	80	µg/L	94	60 - 140	1	0 - 20	Q11749
Methylene chloride	75.6	80	µg/L	95	60 - 140	2	0 - 20	Q11749
n-Butylbenzene	92.1	80	µg/L	115	60 - 140	3	0 - 20	Q11749
n-Propylbenzene	89.4	80	µg/L	112	60 - 140	3	0 - 20	Q11749
Naphthalene	79.6	80	µg/L	100	60 - 140	1	0 - 20	Q11749
o-Xylene	76.9	80	µg/L	96	60 - 140	1	0 - 20	Q11749
p-Isopropyltoluene	89.0	80	µg/L	111	60 - 140	3	0 - 20	Q11749
sec-Butylbenzene	86.2	80	µg/L	108	60 - 140	3	0 - 20	Q11749
Styrene	73.9	80	µg/L	92	60 - 140	2	0 - 20	Q11749
tert-Butylbenzene	86.0	80	µg/L	108	60 - 140	2	0 - 20	Q11749
Tetrachloroethene	67.8	80	µg/L	85	60 - 140	4	0 - 20	Q11749
Toluene	77.2	80	µg/L	97	60 - 140	2	0 - 20	Q11749
trans-1,2-Dichloroethene	74.0	80	µg/L	93	60 - 140	4	0 - 20	Q11749
Trichloroethene	72.7	80	µg/L	91	60 - 140	2	0 - 20	Q11749
Trichlorofluoromethane	81.0	80	µg/L	101	60 - 140	5	0 - 20	Q11749
Vinyl chloride	72.7	80	µg/L	90	60 - 140	5	0 - 20	Q11749



Full Service Analytical & Environmental Solutions
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 Phone: 704/529-6384 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: TR-6181

Project Name: 18428
 Short Hold Analysis: (Yes) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL III III IV) provisions and/or QC Requirements
 Invoice To: Linda Black
 Address: NC DENR

Purchase Order No./Billing Reference
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
 Certification: NELAC USACE FL NC
 SC OTHER N/A
 Water Chlorinated: YES NO
 Sample Iced Upon Collection: YES NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER		PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO. SIZE				
WSW-1	1-3-6	17:30	W	CG P3	1	40150114 HNO3	X		138610
WSW-4	↑	17:10	W	CG P3	1		X		138611
WSW-7	↓	16:55	W	CG P3	1		X		138612
WSW-8	1-3-6	15:45	W	CG P3	1	↓	X		138613

PRISM USE ONLY

Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

Additional Comments:
 Date: 1/3/06 Military/Hours: 0873
 Date: 1-4-06 Date: 150
 Log-in Group No. G0106073

Sampler's Signature: Harold Frazer Sampled By (Print Name): Harold Frazer Affiliation: GMA
 Upon relinquishing this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.
 Relinquished By (Signature): Harold Frazer Received By (Signature): [Signature]
 Relinquished By (Signature): [Signature] Received By (Signature): [Signature]
 Relinquished By (Signature): [Signature] Received By (Signature): [Signature]
 Method of shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
 NPDES: NC SC NC SC NC SC NC SC NC SC
 UST: NC SC NC SC
 GROUNDWATER: NC SC NC SC
 DRINKING WATER: NC SC NC SC
 SOLID WASTE: NC SC NC SC
 RCRA: NC SC NC SC
 CERCLA: NC SC NC SC
 LANDFILL: NC SC NC SC
 OTHER: NC SC NC SC

SEE REVERSE FOR TERMS & CONDITIONS



Phase I Limited Site Assessment Report
Mann Store, Incident TF-6281
7070 NC Highway 87
Pittsboro, Chatham County, North Carolina
S&ME Project No. 4305-18-110

PREPARED FOR:

**NCDEQ, DWM, UST Section
1646 Mail Service Center
Raleigh, NC 27699-1646**

PREPARED BY:

**S&ME, Inc.
3201 Spring Forest Road
Raleigh, NC 27616**

March 8, 2019



March 8, 2019

NCDEQ, DWM, UST Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Attention: Ms. Linda Blalock

Via email: linda.blalock@ncdenr.gov

Reference: **Phase I Limited Site Assessment Report
Mann Store, Incident TF-6281, RA-940**
7070 NC Highway 87
Pittsboro, Chatham County, North Carolina
S&ME Project No. 4305-18-110

Dear Ms. Blalock:

S&ME, Inc., (S&ME) presents this report in accordance with the North Carolina Department of Environmental Quality/S&ME Contract No. N17002 and S&ME Proposal No. 43-18-00383 dated April 23, 2018, as authorized by Task Authorization No. TA-01 dated April 23, 2018.

The scope of services included the preparation of a Phase I Limited Site Assessment (LSA), which includes the installation of one well in the source area, and collection of a water sample from the adjacent property's water supply well.

If you have any questions or comments regarding this report, please contact us at your convenience.

Sincerely,

S&ME, Inc.

A handwritten signature in blue ink, appearing to read 'M. Pfeifer'.

Michael W. Pfeifer
Senior Project Manager
mpfeifer@smeinc.com

A handwritten signature in blue ink, appearing to read 'Thomas P. Raymond'.

Thomas P. Raymond, P.E., P.M.P.
Senior Engineer
traymond@smeinc.com

Attachment: Phase I Limited Site Assessment Report



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1.0 Site Information

1.1 Site Identification

- Date of Report: 3/8/2019
- Facility I.D. None UST Incident No.: 6281 UST No.: RA-940
- Site Risk: High Site Rank: Unknown Land Use Category: Light Industrial
- Site Name: Mann Store
- Site Address: 7070 NC Highway 87
- City/Town: Pittsboro Zip Code: 27312 County: Chatham
- Description of Geographical Data (e.g., diesel fill port): Former UST Area
- Location Method (GPS, Topographical map, other): Google Earth
- Latitude (decimal degrees): 35.804004° Longitude (decimal degrees): -79.250509°

1.2 Information about Contacts Associated with the Leaking UST System

- Former UST Owner: Glen Mann (deceased)
- Address: Not Applicable Telephone: Not Applicable
- UST Operator: Glen Mann (deceased)
- Address: Not Applicable Telephone: Not Applicable
- Property Owners: Glenette and Ronald Vaughn
- Consultant/Contractor: S&ME, Inc.
- Address: 3201 Spring Forest Road, Raleigh, NC Telephone: 919-872-2660
- Analytical Laboratory: Con-Test Analytical Laboratory State Certification No.: 652
- Address: 39 Spruce Street, East Longmeadow, MA 01028 Telephone: 413-525-2332

1.3 Information about Release

- Date Discovered: 12/19/1990
- Estimated Quantity of Release: Unknown
- Cause of Release: Unknown
- Source of Release (Dispenser/Piping/UST): UST System
- Sizes and contents of UST system(s) from which the release occurred: Two 1,000-gallon gasoline USTs, one 2,000-gallon gasoline UST, one 550-gallon kerosene UST.
- Criteria Used to Classify Risk: In 1998, a concentration of benzene (34.5 micrograms per liter) was detected in water supply well WSW-8.

1.4 Information about the Report

- Date of Soil and Groundwater Sampling: Violations of 2L Standards in MW-1 and off-site water supply well WSW-8. Several active water supply wells within 1,000 feet of the site.



1.5 Certification

I, Thomas P. Raymond, a Licensed Engineer for S&ME, do certify that the information contained in this report is correct and accurate to the best of my knowledge. S&ME is licensed to practice geology/engineering in North Carolina. Geology License Certification #C-145 and Engineering License Certification #F-0176.

Thomas P. Raymond, P.E., P.M.P.





2.0 Executive Summary

On May 24, 2018 and May 25, 2018, S&ME conducted a Phase I Limited Site Assessment (LSA) at the Mann Store site located at 7070 NC Highway 87, Pittsboro, North Carolina. The LSA included installing monitor well (MW-1) on site, collecting groundwater and soil sample from MW-1, sampling of a nearby water supply well (WSW-8), and conducting a site reconnaissance, and a sensitive receptor survey. A Site Vicinity Map is included as **Figure 1**. Photos taken during the site assessment are included in **Appendix III**.

A composite soil sample collected from the soil boring associated with monitor well MW-1 on May 24, 2018 was analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, and volatile petroleum hydrocarbons (VPH) by the Massachusetts Department of Environmental Protection (MADEP) method. Results indicated that none of the targeted constituents were detected above the laboratory's method detection limits.

The groundwater sample collected from monitor well MW-1 on May 25, 2018 was analyzed for VOCs by EPA Method 6200B, and VPH by the MADEP method. The laboratory analytical results of the sample collected from MW-1 indicated that benzene, naphthalene, and methyl tert-butyl ether were detected in concentrations above the groundwater quality standards established by 15A NCAC 02L .0202 (2L Standards). In addition, carbon fraction chains, C5-C8 Aliphatics, C9-C12 Aliphatics, and C9-C10 Aromatics, were detected above the 2L Standard by the MADEP VPH analysis method. Several additional constituents were detected below the 2L Standards.

S&ME sampled the neighboring water supply well (WSW-8) located approximately 50 feet south of the former UST bed. The sample was analyzed for VOCs by EPA Method 6200B, and VPH by the MADEP method. Several constituents were detected above their reporting limit. Benzene was detected at a concentration exceeding the 2L Standard.

Eight active water supply wells (WSW-1 through WSW-8) were identified on properties within 1,000 feet of the subject site. Municipal water service is not available for the area and it should be assumed that properties in the area use water supply wells. Three surface water bodies were identified during the receptor survey: Long Branch Stream is located to the south, one intermittent stream is located to the north of the site, and one farm pond is located northwest of the site.

- The following recommendations are presented:
 1. Install additional monitor wells on other areas of the site to establish groundwater flow direction and delineate the extent of groundwater contamination.
 2. Obtain access agreements from properties within 1,000 feet of the subject property and collect samples to determine if petroleum constituents are present in these wells.



3.0 Scope of Services

3.1 Contract Information

The scope of services for this report was performed in general accordance with S&ME's proposal number 43-180043, dated April 23, 2018. The scope of services was authorized by the North Carolina Department of Environmental Quality (NCDEQ's) Task Authorization TA-01, dated April 23, 2018, and within contract number N17002.

3.2 Approved Scope of Services

S&ME's approved Scope of Services for this Task Authorization included conducting a project review, and conducting a Phase I LSA, which included identifying potential and sensitive receptors within 1,000 feet of the site, the installing four monitor wells on the site, collecting soil samples during the monitoring well installation, and collecting a groundwater sample from the monitoring well. In addition, S&ME was also tasked with collecting a sample from the water supply well of the neighboring property (WSW-8).

The scope of services was completed as proposed, with the exception of the following:

- Three additional monitor wells were not installed on site due to shallow rock bed encountered during installation of monitor well MW-1.

4.0 Site History and Characterization

The Mann Store site is located at 7070 NC Highway 87 in Pittsboro, Chatham County, North Carolina. According to Chatham County Land Use and Planning Map accessed on June 6, 2018, the site is classified as a light industrial district surrounded by residential-agricultural use properties. Currently, the building is vacant and the site is unoccupied. Structures on the site include one unoccupied building with a car port, and three garages. One large shipping and storage container and a shed are also located on the site. The property had previously been used as a gas station, owned and operated by Mr. Glen Mann. After the closure of the gas station, in 1966, the fuel pumps were removed and the property was used as a TV and Appliance Repair Service and Automotive Repair Shop.

Four USTs were removed from the property on December 19, 1990. A free product film was observed on top of the groundwater that had infiltrated the excavation site. Approximately 217 cubic yards of soil from the UST system's bed was removed at the time of excavation and six soil samples were collected for analysis. Laboratory results reported levels of total petroleum hydrocarbon (TPH) concentrations above regulatory limits. Water supply well WSW-8, located at 7042 Highway 87 North in Pittsboro, North Carolina, approximately 50 feet from the release site was first sampled on March 5, 1992. Results reported from the laboratory analytical data indicated levels above regulatory limits. The Raleigh Regional Office recommended the Mann Store site to the Federal Trust Fund program on March 26, 1992. Subsequently, two water supply wells were sampled by the Federal Trust Fund, one being water supply well WSW-8, the other has since been destroyed. Benzene was reported above its 2L Standard in water supply well WSW-8 at this time.

**Phase I Limited Site Assessment Report
Mann Store, Incident TF-6281, RA-940
7070 NC Highway 87**

Pittsboro, Chatham County, North Carolina
S&ME Project No. 4305-18-110



S&ME advanced four soil borings and collected one soil sample and one water supply sample on July 21, 1998. At this time the soil sample reported with TPH concentrations above the regulatory limit. The water supply well (WSW-8) results were also reported with several constituents above reporting limits and benzene above its 2L Standard. On August 21, 1998, following the results, bottled water service was set up for the tenants of the residence associated with WSW-8.

A site reconnaissance, sensitive receptor survey, and collection of water supply well samples were conducted on December 15, 2004 by Groundwater Management Associates, Inc. (GMA). Six water supply wells (WSW-1, WSW-4, WSW-5, WSW-7, WSW-8 and the since destroyed well on the property located to the north of the site) were sampled from properties within 1,000 feet of the site. Of these wells, water supply well WSW-8 was the only one reported with constituents above the detection limit. Benzene was reported above its 2L Standard. An additional sampling event was conducted on January 3, 2006 by GMA. Samples from WSW-1, WSW-4, WSW-7 and WSW-8 were collected. Concentrations of contaminants were similar to the results of the sampling event conducted in 2004. Benzene was detected again above its 2L Standard indicating a consistent pattern of contamination from 1991 through 2006. The most recent sampling event was conducted in 2010 with similar results to the 2006 sampling event. Benzene was detected in a concentration exceeding the 2L Standard and several other VOCs were detected in WSW-8 below their respective 2L Standards. There were no detections of targeted contaminant constituents in WSW-1, WSW-4, WSW-5, or WSW-7.

The property is now owned by Glenette and Ronald Vaughn - husband and wife. Glenette Mann is the daughter of Mr. and Mrs. Mann. She inherited upon the death of Mrs. Mann; Mr. Mann pre-deceased her. Topography of the area is generally flat. Groundwater elevations and flow have not been calculated due to the limitation of one monitor well. A site map is provided as **Figure 2** and a photographic log of the site and surroundings is provided as **Appendix III**.

4.1 UST Owner and Operator Information

The former owner/operator of the UST system was Glen Mann (deceased in 1992), who operated the UST system from an unknown date until 1966, when the gas station closed and the fuel pumps were removed. The UST system remained under Mr. Mann's ownership until 1990 when the system was removed. Information pertaining to the UST owner and operator information is presented in **Table 1**.

4.2 UST Information

One 2,000-gallon gasoline UST, two 1,000-gallon gasoline USTs, and one 550-gallon kerosene UST formerly operated at the site until 1966. According to an *Underground Storage Tank Closure Program* report, dated January 3, 1991 prepared by ATEC Environmental Consultants, Inc. (ATEC), the four USTs were closed by removal on December 19, 1990. Information about the UST is provided in **Table 2**, and the location of the former UST system is shown in **Figure 2**.

4.3 Description of the UST Release

On December 19, 1990, ATEC removed the USTs from the property. At this time a release was discovered and reported to the Raleigh Regional Office (RRO) of North Carolina Division of Environmental Management (NCDEM). Upon removal of the UST system a film of free product was identified on top of the infiltrating groundwater.



Additionally, soil samples collected at this time were visibly discolored and emitted a strong petroleum odor. Analysis of the soil samples confirmed that TPH concentrations were above the NCDEM action level.

4.4 Owners and Occupants of Adjoining/Nearby Properties and Land Use

There are six adjacent properties to the site. These properties are forested, residential, or farm land. Most homes and structures in the vicinity are mobile home residences, the closest being approximately 50 feet south of the site. Information regarding adjacent properties is presented in **Table 3** and are shown in **Figure 3**.

5.0 Site Reconnaissance and Receptor Information

On May 25, 2018, S&ME personnel completed a receptor survey in general accordance with the NCDEQ *Guidelines for Assessment and Corrective Action*, August 2012. The Limited Site Assessment Risk Classification and Land Use Form is included in **Appendix IV**. Information pertaining to the identified receptors is summarized below. **Figure 3** shows the locations of the adjacent property owners and identified water supply wells.

5.1 Water Supply Wells

Letters requesting water supply well information were mailed to eight addresses located within 1,000 feet of the subject site. To date, one property owner has responded. Nine water supply wells have been visually identified. Of those nine, one well has been identified not in use. The list of identified water supply wells in the area is included as **Table 4**.

5.2 Public Water Supplies

According to the Chatham County Public Utilities Department, municipal water service is not available for the area surrounding the site. Potable water at the site and surrounding area is supplied through private drinking water wells.

5.3 Surface Water

According to the National Wetlands Inventory online Wetlands Mapper, one freshwater farm pond is located approximately 525 feet to the northwest of the source area. Additionally, two streams were identified within 1,500 feet of the subject site; one located approximately 1,000 feet northeast, and the other located approximately 1,500 feet south. These surface water features and potential receptors are included on **Table 4**.

5.4 Wellhead Protection Areas

S&ME personnel accessed the web application viewer of wellhead protection areas on May 31, 2018. According to the online database, the site and surrounding area is not located within a designated wellhead protection area.

5.5 Subsurface Structures

During the site reconnaissance, several underground utilities were identified on the subject property. Underground utilities have the potential to act as subsurface pathways for contamination. No other subsurface structures such as vaults, basements, or storm drain features were identified during the receptor survey.



5.6 Risk Classification

Based on the presence of a water supply wells located within 1,000 feet of the subject property and the detection of constituents above their 2L Standard the site remains as a "High" risk site.

6.0 Soil and Groundwater Sampling

Field activities were performed under a site-specific health and safety plan prepared by S&ME. The project was performed in general accordance with the procedures outlined in the approved task authorization TA-01 dated April 23, 2018. The investigative derived waste, such as soil cuttings, decontamination water, and purge water that were generated during the field activities were spread on the ground at the site.

6.1 Monitor Well Installation and Soil Sampling

On May 24, 2018, S&ME personnel mobilized to the site to install a groundwater monitoring well (MW-1). The soil boring for the monitor well was advanced using a Geoprobe 7730 DT with the ability to turn 4.25 inch outside diameter hollow-stem augers. Macro core refusal was encountered 7-feet below ground surface, at this depth S&ME personnel switched to the air rotary method to advance the well to the final depth of 50-feet below ground surface (ft-bgs). The monitor well (MW-1) was advanced approximately 25-feet south of the onsite building near the front entrance. **Figure 2** represents the location of the monitor well. The boring log used to document observations in the field is included in **Appendix V**. The soil boring was converted into a groundwater monitoring well (MW-1) by installing a 20-foot long section of two-inch diameter polyvinyl chloride (PVC) 0.010-inch slotted screen, attached to a 30-foot long riser pipe to bring the well to ground surface. The well was completed by placing #2 type filter sand in the boring annulus to approximately two feet above the screen section (sand pack). Approximately two feet of hydrated bentonite was placed above the sand pack, and neat cement grout was then placed from the top of the bentonite to approximately six inches below ground surface. The monitor well was completed at the ground surface and is encased with a flush-mounted protective steel casing and a bolted manhole cover. The monitor well construction record is included in **Appendix V** and the monitor well construction details are summarized in **Table 5**.

During the advancement of the soil boring for MW-1 a soil sample was collected from the interval between 0 and 5.0 feet below ground surface (MW-1 (0-5')) and another sample was collected from the interval between 5.0 feet and 7.0 feet below ground surface (MW-1 (5-7')). The soil samples were classified on-site by S&ME personnel and screened with a photo-ionization detector (PID) to measure relative headspace concentrations of VOCs. The maximum PID reading during the advancement of the soil boring for MW-1 was 2.8 ppm at an approximate depth of six feet below ground surface.

The composite soil sample (SS-1) was placed directly into a laboratory-supplied container and stored in an insulated container with ice. The sample was shipped under standard chain-of-custody procedure to Con-Test Analytical Laboratories (Con-Test) of East Longmeadow, Massachusetts, a North Carolina certified laboratory, for analysis of VOCs by EPA Method 8260B and for VPH by the MADEP Method.



6.2 Groundwater Sampling

On May 25, 2018, S&ME personnel measured depth to groundwater in MW-1. The depth to groundwater was measured using an electronic water level indicator, which emits an audible tone when in contact with water. The depth to groundwater was measured at 34.43-feet below the top of casing in MW-1. The depth to water measurement and monitor well construction data is provided in **Table 5**.

After collecting the depth to groundwater measurement, S&ME personnel purged and sampled MW-1 using a new, disposable polyethylene bailer. The well was bailed dry after removing approximately four gallons, and was allowed to recover before sampling. Field parameters consisting of temperature, pH, and conductivity were recorded for each casing volume. The groundwater samples were placed in laboratory-supplied containers, placed in a cooler on ice, and shipped under standard chain-of-custody procedure to Con-Test for analysis for VOCs by EPA Method 6200B, and for VPH by the MADEP Method.

6.3 Water Supply Well Sampling

A sample was also collected from WSW-8, located approximately 50 feet to the south of the former UST system bed. The sample was taken from the spigot of the home associated with WSW-8. The spigot was purged for approximately five minutes at a rate of seven gallons per minute before parameters were taken. Field parameters consisting of temperature, pH, and conductivity were then recorded at five minute intervals. The water supply well samples were placed in laboratory-supplied containers, placed in a cooler on ice, and shipped under standard chain-of-custody procedure to Con-Test for analysis for VOCs by EPA Method 6200B.

Copies of the well sampling forms are provided in **Appendix V**. The chain-of-custody form can be found in **Appendix VI**.

6.4 Summary of Soil Analytical Results

The laboratory analytical results of the composite soil sample (SS-1) collected on May 24, 2018 indicated that no target contaminant constituents were reported above the laboratory's method detection limits. A summary of the laboratory analytical results for the soil samples is presented in **Table 6**, and shown on **Figure 4**. The laboratory analytical report for the soil samples is included in **Appendix VI**.

6.5 Summary of Groundwater Analytical Results

The laboratory analytical result of the groundwater sample collected from monitor well MW-1 indicated that benzene, methyl tert-butyl ether, and naphthalene were detected above their respective 2L Standards. In addition, carbon fractions C5-C8 Aliphatics, C9-C12 Aliphatics, and C9-C10 Aromatics were detected above the regulatory limit. Several VOCs were reported at concentrations above their respective laboratory analytical method detection limits, but below their respective 2L Standards.



6.6 Summary of Water Supply Well Analytical Results

The laboratory analytical results collected from WSW-8 indicated that benzene was detected above the 2L Standard. Several additional constituents were detected below their respective 2L Standards.

No free product was measured during this sampling event. Upon receiving the laboratory analytical results, Ms. Linda Blalock was sent the laboratory analytical report via email on June 7, 2018. A summary of the groundwater analytical results from monitor well MW-1 is presented in **Table 7** and the summary of historical and current contaminants in water supply wells are presented in **Table 8**. Laboratory analytical results are shown in **Figure 4**, and a copy of the laboratory analytical report is provided in **Appendix VI**.

6.7 Regional and Site Geology and Hydrogeology

6.7.1 *Soil and Bedrock*

Soils encountered at the site during the advancement of the groundwater monitor well by S&ME primarily consisted of silty sands. Partially weathered rock was encountered at approximately 19 feet. Bedrock consisting of siltstone was encountered at approximately 21 feet with possible fractures at 42 to 50 feet.

According to the Geologic Map of North Carolina, dated 1985, the site lies within Carolina Slate Belt, mostly comprised of metamorphic rock. This formation is categorized as metamudstone and meta-argillite with a thin to thick bedding, axial-planar cleavage is common.

6.7.2 *Hydrogeology*

The depth to groundwater measurement collected on May 25, 2018 measured 34.43 feet below top of casing (ft-BTOC). Due to the limitation of one monitor well, the groundwater flow direction could not be determined. However based on previous reports and land elevations in the area it is estimated groundwater flows to the northeast.

6.8 Evaluation of Soil and Groundwater Information

6.8.1 *Current Extent and Severity of Contamination*

During the installation of monitor well MW-1 on May 24, 2018 a composite soil sample was collected. Laboratory analytical results show no contaminants were detected above detection limits.

No free product was detected in the monitor well sampled. Several petroleum and gasoline constituents were detected above their reporting limits in monitor well MW-1 and water supply well WSW-8 during the sampling event on May 25, 2018. Benzene in monitor well MW-1 and water supply well WSW-8 was detected above the 2L Standard. Additionally, methyl tert-butyl ether, and naphthalene were detected in MW-1 above their respective 2L Standards.



According to previous reports, constituents found in water supply well WSW-8, do not seem to be decreasing at a consistent rate. Benzene, methyl tert-butyl ether, and diisopropyl ether have decreased since the previous sampling event on January 3, 2006. However, many other constituents which had not previously been detected reported above their detection limits during the sampling event on May 25, 2018. The extent of the contaminated groundwater has not been determined.

6.8.2 *Cleanup Levels Achieved*

- | | |
|--|------------|
| ◆ Soil (soil-to-groundwater maximum soil contaminant concentrations) | Yes |
| ◆ Groundwater (2L standard concentrations) | No |
| ◆ Free Product - Free product has not been measured at the site. | Yes |

7.0 **Conclusion and Recommendations**

Based on the current and historical assessment information for the site, the following conclusions are presented:

1. The laboratory analytical results of soil sample collected on May 24, 2018 indicated that no target contaminant constituents were reported above the laboratory's method detection limits.
2. The laboratory analytical results of the groundwater sample collected on May 25, 2018 from monitor well MW-1 indicated that benzene, naphthalene, and methyl tert-butyl ether were detected above their respective 2L Standards. There were no detections above the gross contamination levels (GCLs).
3. Water supply well WSW-8 also had laboratory results indicated levels of benzene above the 2L Standard but below the Federal Drinking Water Standard of 5 µg/L.
4. During the receptor survey and from responses received from a well survey, eight water supply wells were identified within 1,000 feet of the site. It should be assumed that each property with a residence has a water supply well. Municipal water service is not available to the surrounding area.
5. S&ME was unable to install additional monitor wells due to shallow bed rock, and unable to gain access permission to remaining adjacent properties.

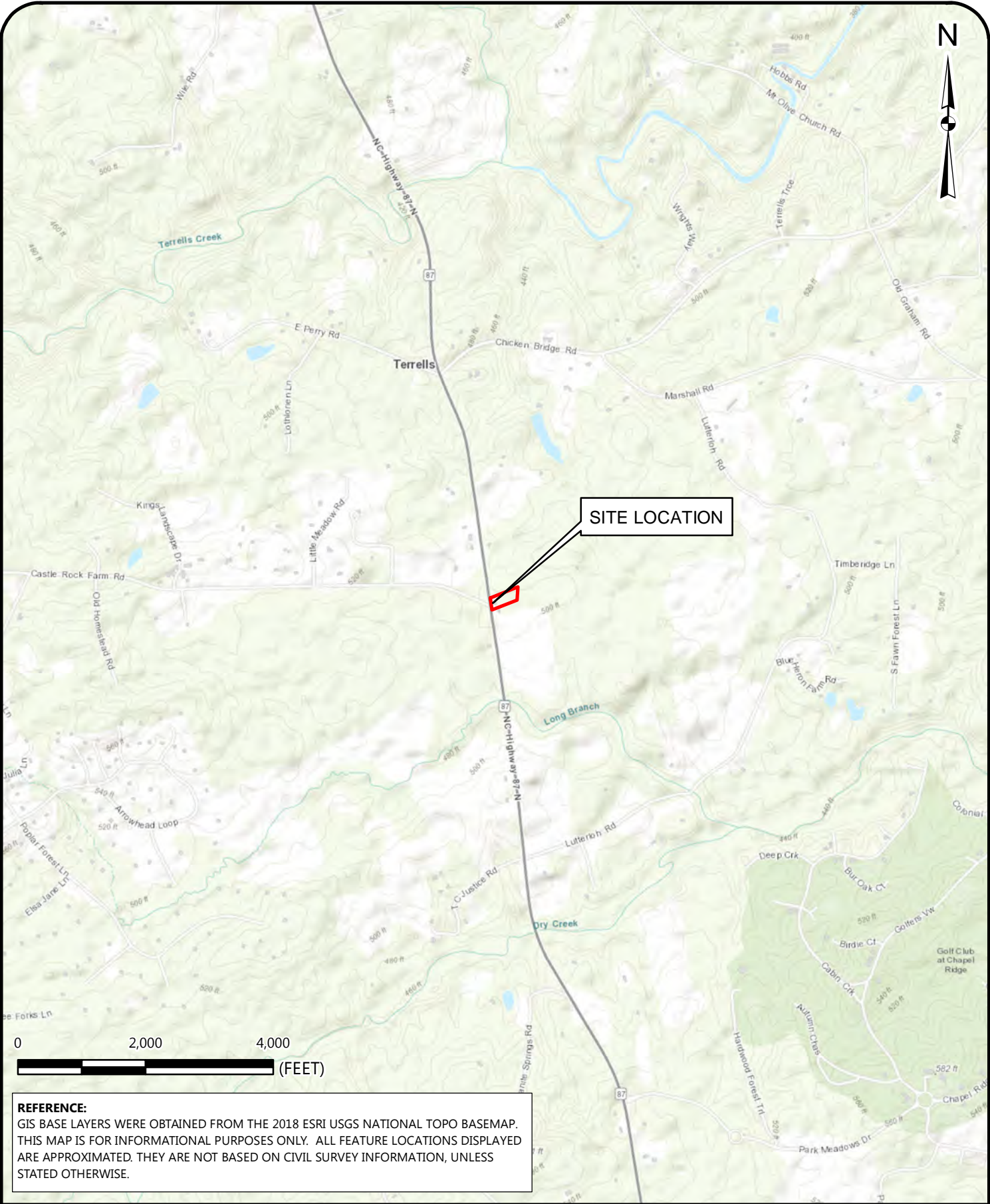
Based on the above, the following recommendations are presented:

1. Obtain access agreements to sample the water supply wells on properties within 1,000 feet of the site.
2. Continue periodic sampling of monitor well MW-1 and install additional monitor wells to determine groundwater flow direction and delineate the extent of contamination.

Appendices

Appendix I – Figures

Drawing Path: Q:\PROJECTS\2018\4305-18-110 Mann Store\VicinityMapFIG1.mxd plotted by mverbanic 06-05-2018



VICINITY MAP

MANN STORE (TF - 6281)
 7070 NC HIGHWAY 87
 PITTSBORO, CHATHAM COUNTY, NORTH CAROLINA




SCALE:
 1" = 2,000'
 DATE:
 6-5-18
 PROJECT NUMBER
 4305-18-110


FIGURE NO.
1



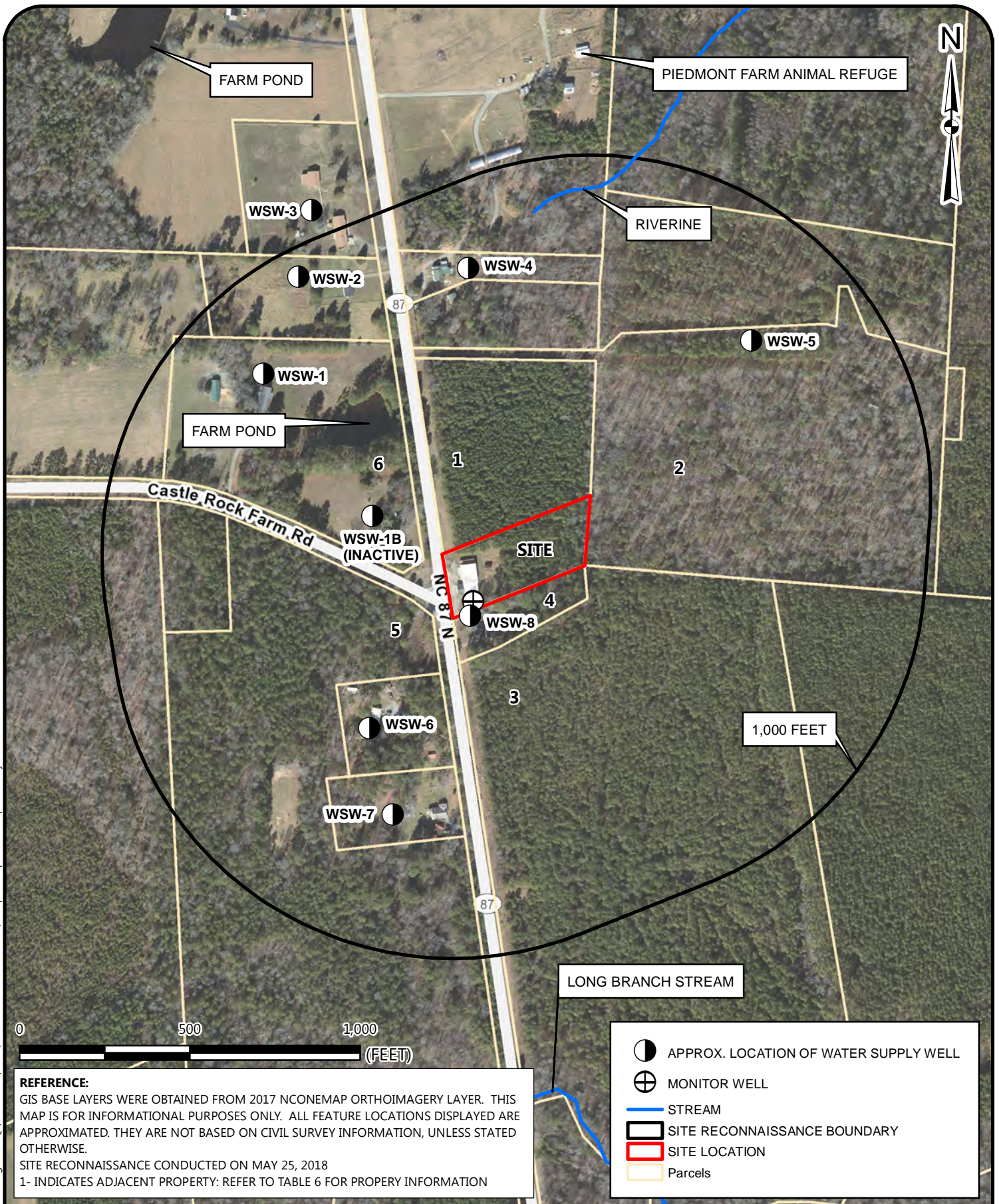
Drawing Path: Q:\PROJECTS\2018\4305-18-110 Mann Store\SiteMap\FIG2.mxd plotted by mverbanic 06-08-2018

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM 2017 NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

-  WATER SUPPLY WELL
-  SITE LOCATION
-  MONITOR WELL

	SITE MAP	SCALE: 1" = 100'	FIGURE NO.
	MANN STORE (TF - 6281) 7070 NC HIGHWAY 87	DATE: 6-8-18	2
	PITTSBORO, CHATHAM COUNTY, NORTH CAROLINA	PROJECT NUMBER 4305-18-110	

Drawing Path: Q:\PROJECTS\2018\4305-18-110 Mann Store\ReceptorMap\FIG3.mxd plotted by mverbanic 06-15-2018



REFERENCE:
 GIS BASE LAYERS WERE OBTAINED FROM 2017 NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.
 SITE RECONNAISSANCE CONDUCTED ON MAY 25, 2018
 1- INDICATES ADJACENT PROPERTY: REFER TO TABLE 6 FOR PROPERY INFORMATION

- APPROX. LOCATION OF WATER SUPPLY WELL
- MONITOR WELL
- STREAM
- SITE RECONNAISSANCE BOUNDARY
- SITE LOCATION
- Parcels

	RECEPTOR SURVEY	SCALE: 1" = 375'	FIGURE NO.
	MANN STORE (TF - 6287) 7070 NC HIGHWAY 87	DATE: 6-15-18	3
	PITTSBORO, CHATHAM COUNTY, NORTH CAROLINA	PROJECT NUMBER 4305-18-110	



MW-1	
GROUNDWATER	µg/L
BENZENE	63
N-BUTYLBENZENE	4.2
SEC-BUTYLBENZENE	3.5
TERT-BUTYLBENZENE	0.35 J
DIISOPROPYL ETHER	52
ETHYLBENZENE	52
ISOPROPYLBENZENE	12
P-ISOPROPYLTOLUENE	0.84
METHYL TERT-BUTYL ETHER	35
NAPHTHALENE	29
N-PROPYLBENZENE	21
TOLUENE	1.9
1,2,4-TRIMETHYLBENZENE	42
1,3,5-TRIMETHYLBENZENE	7.5
TOTAL XYLENES	35.8

MW-1	
SOIL (0'-7')	mg/Kg
BDL	

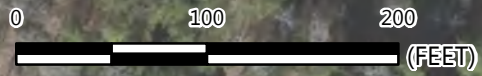
WSW-8	
GROUNDWATER	µg/L
BENZENE	3.9
DIISOPROPYL ETHER	6.9
ISOPROPYLBENZENE	0.19 J
METHYL TERT-BUTYL ETHER	3.8
N-PROPYLBENZENE	0.18 J
STYRENE	0.25 J
1,2,4-TRIMETHYLBENZENE	0.55
TOTAL XYLENES	1.2

FORMER PUMP ISLAND

Castle Rock Farm Rd

NC 87 N

FORMER UST SYSTEM PIT



87

REFERENCE:
 GIS BASE LAYERS WERE OBTAINED FROM 2017 NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

SOIL SAMPLE COLLECTED MAY 24, 2018
 GROUNDWATER SAMPLES COLLECTED MAY 25, 2018
 µg/L: MICROGRAMS PER LITER
 mg/Kg: MILLIGRAM PER KILOGRAM
 BDL: BELOW DETECTION LIMIT
 J: CONCENTRATION DETECTED BELOW REPORTING LIMIT BUT ABOVE 2L STANDARD, RESULTING IN AN ESTIMATION
BDL INDICATES CONCENTRATION EXCEEDS 2L STANDARDS

	SITE LOCATION
	MONITOR WELL
	WATER SUPPLY WELL



GROUNDWATER AND SOIL CONSTITUENT MAP

MANN STORE (TF - 6281)
 7070 NC HIGHWAY 87
 PITTSBORO, CHATHAM COUNTY, NORTH CAROLINA

SCALE:
 1" = 100'
 DATE:
 6-15-18
 PROJECT NUMBER
 4305-18-110

FIGURE NO.

4

Drawing Path: Q:\PROJECTS\2018\4305-18-110 Mann Store\GroundwaterConstituentMap\Fig4.mxd plotted by mverbanic 06-15-2018

Appendix II – Tables



TABLE 1
SITE HISTORY - UST/AST OWNER INFORMATION
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

UST ID Numbers	Name of Owner and Operator	Dates of Ownership / Operation	Incident Number	Owner or Operator?
1 through 4	Glen and Muriel Mann	Prior to 1966 - 2007	6281	Both
Address			Telephone Number	
N/A - Deceased			N/A - Deceased	



TABLE 2
SITE HISTORY - UST SYSTEM INFORMATION
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

UST ID Number	Current Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions D/L (ft)	Description of Associated Piping and Pumps	Date USTs Installed	Status of UST ***	Was Release Associated With UST System?
1	None	Gasoline	1,000	Steel	Unknown	Removed 1966	Unknown	Closed by Removal 1990	Yes
2	None	Gasoline	2,000	Steel	Unknown	Removed 1966		Closed by Removal 1990	
3	None	Gasoline	1,000	Steel	Unknown	Removed 1966		Closed by Removal 1990	
4	None	Kerosene	550	Steel	Unknown	Removed 1966		Closed by Removal 1990	

Incident Number	Material Released	Date of Release	Description of Release
6281	Gasoline	Unknown	Soil contamination discovered at time of UST closures by removal.

UST Details from *Underground Storage Tank Closure Program*, dated January 3, 1991 by ATEC Environmental Consultants.



TABLE 3
PROPERTY OWNERS/OCCUPANTS
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

Parcel # or Map ID	Owner/Occupant Name	Owner/Occupant Mailing Address			
		Street/PO Box	City	State	Zip
Site	Glenette & Ronald Vaughn	8847 NC Highway 87 N	Pittsboro	NC	27312
1	Glenette & Ronald Vaughn	8847 NC Highway 87 N	Pittsboro	NC	27312
2	Susan Johnson	7192 NC Highway 87 N	Pittsboro	NC	27312
3	Christopher Campbell	635 Sheep Rock Road	Snow Camp	NC	27349
4	Irene Morris	713 Pittsboro-Goldston Road	Pittsboro	NC	27312
5	John & Tammy Flynn	633 Chapel Ridge Drive	Pittsboro	NC	27312
6	Lauraine Rivier	180 Castle Rock Farm Road	Pittsboro	NC	27312

Notes: Information on property ownership was obtained from Chatham County GIS Website June 2018.



TABLE 4
PUBLIC AND PRIVATE WATER SUPPLY WELL INFORMATION
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

Well #	Well Owner / User (indicate which)	Site Address	Phone Number	Latitude (decimal)	Longitude (decimal)	Well Use	Well Depth (ft-BGS)	Type of Well	Well Casing Depth (ft-BGS)	Distance (ft) / Direction from Source	Gradient from Source (Up or Down)
WSW-1	Lauraine Rivier	180 Castle Rock Farm Road	Not Provided	35.805287	-79.253116	Drinking	Unknown	Unknown	Unknown	900' NW	Lower
WSW-1B	Lauraine Rivier	180 Castle Rock Farm Road	Not Provided	35.804527	-79.251304	Inactive	Unknown	Unknown	Unknown	350' NW	Lower
WSW-2	Michael & Sharon Owens	7239 NC Highway 87	Not Provided	35.806471	-79.252033	Drinking	Unknown	Unknown	Unknown	1,000' NW	Lower
WSW-3	Jean and Donald Stubbs	7267 NC Highway 87	Not Provided	Unknown	Unknown	Drinking	Unknown	Unknown	Unknown	1,250' NNW	Lower
WSW-4	Piedmont Farm Animal Refuge	7236 NC Highway 87	919-533-4013	35.806554	-79.250563	Drinking	Unknown	Unknown	Unknown	975' N	Lower
WSW-5	Susan Johnson	7192 NC Highway 87	Not Provided	Unknown	Unknown	Drinking	Unknown	Unknown	Unknown	1,000' NE	Lower
WSW-6	Sandra Fogleman	6989 NC Highway 87	Not Provided	35.802996	-79.251504	Drinking	Unknown	Unknown	Unknown	475' SW	Higher
WSW-7	Sandra Fogleman	6941 NC Highway 87	Not Provided	35.802239	-79.251021	Drinking	Unknown	Unknown	Unknown	650' SSW	Higher
WSW-8	Irene and Clarence Morris	7042 NC Highway 87	Not Provided	35.803843	-79.250551	Drinking	Unknown	Unknown	Unknown	50' S	Higher

Other Receptors

(Other public water supplies, reservoirs, supply lines, surface water bodies, wellhead protection areas, recharge areas for deep aquifers, subsurface structures)

Receptor ID	Description	Location	Latitude (decimal)	Longitude (decimal)	Contact	Phone Number	Usage	Distance (ft) / Direction from Source	Gradient from Source (Up or Down)
P1	Farm Pond	180 Castle Rock Farm Road	35.805393	-79.251711	Lauraine Rivier	Unknown	Farm Pond	525' NW	Lower
S1	Long Brand Stream	South of the Subject Property	35.799971	-79.249842	Unknown	Unknown	Surface Water Body	1,450' S	Higher
S2	Intermittent Stream	North of the Subject Property	35.806944	-79.249166	Unknown	Unknown	Surface Water Body	1,000' NE	Lower

- Notes:**
- Latitude and Longitude coordinates of water supply wells are estimated values
 - Only confirmed water supply wells are shown. It should be assumed that each property with a residence has a water supply well as municipal water is not available to the surrounding area.
 - Water Supply well information obtained from responses of property owners as indicated on the letters received back from the well survey
 - Other receptors identified using the National Wetlands Inventory online Wetlands Mapper system.
 - Groundwater flow direction has been estimated based on previous reports and land elevations collected from Google Earth



TABLE 5
WELL CONSTRUCTION AND LIQUID LEVEL DATA
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

Well ID	Date Installed	Total Well Depth (ft-BTOC)	Screened Interval (ft-bgs)	Date Measured	Top of Casing Elevation (ft-rel)	Depth to Water (ft-BTOC)	Free Product Thickness (ft)	Groundwater Elevation (ft-rel)
MW-1	5/24/2018	50	30-50	5/25/2018	NM	34.43	NM	NM

NOTES: Two-inch diameter PVC well materials were installed.
ft-BGS = Feet Below Ground Surface
NM = Not Measured
BTOC = Below Top of Casing



TABLE 6
SUMMARY OF SOIL SAMPLING RESULTS
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

Sample ID	Date Collected	Sample Depth (ft-BGS)	VOCs by EPA Method 8260B (mg/kg)	VPH by MADEP (mg/kg)
			Contaminants of Concern	Contaminants of Concern
SS-1	5/24/2018	0-7	BDL	BDL
Soil-to-Groundwater MSCC			Constituent Specific	Constituent Specific
Residential MSCC				
Industrial/Commerical MSCC				

NOTES:

Analytes that are not shown for the method were not detected

ft-BGS: Feet below ground surface

VOCs: Volatile Organic Compounds

VPH: Volatile Petroleum Hydrocarbons

Results reported in milligrams per kilogram (mg/kg)

BDL: Below Detection Limit

MSCC: Maximum soil contamination concentration



TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

Analytical Method →		Volatile Organic Compounds (VOCs) EPA Method 6200B (µg/L)															MADEP VPH (µg/L)		
Contaminant of Concern →		Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Diisopropyl Ether (DIPE)	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methyl tert-butyl ether	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	C5-C8 Aliphatics	C9-C10 Aromatics	C9-C12 Aliphatics
Well ID	Date Collected																		
MW-1	5/25/2018	63	4.2	3.5	0.35 J	52	52	12	0.84	35	29	21	1.9	42	7.5	35.8	770	360	550
2L Standard		1	70	70	70	70	600	70	25	20	6	70	600	400	400	500	400	200	700
GCL		5,000	6,900	8,500	15,000	70,000	84,500	25,000	11,700	20,000	6,000	30,000	260,000	28,500	25,000	85,500	NE	NE	NE

Notes:

Analytes that are not shown for the method were not detected.

Concentrations are reported in micrograms per liter (µg/L).

VPH: Volatile Petroleum Hydrocarbons

MADEP: Massachusetts Department of Environmental Protection

J: Indicates detection above the method detection limit, but below the reporting limit; therefore, result is an estimated concentration

2L Standard: North Carolina Groundwater Quality Standards: 15A NCAC 2L.0202

Concentrations exceeding the 2L Standards are shown in Shaded and **BOLD** fields.

Concentrations exceeding the laboratory's reporting limits are shown in **BOLD** fields.

GCL - Gross Contaminant Level

BDL - Not detected in concentrations exceeding laboratory detection limits

NE: Regulatory standard not established for analyte



TABLE 8
SUMMARY OF WATER SUPPLY WELL SAMPLING RESULTS
Mann Store (Incident No. 6281, UST No. RA-940)
7070 NC Highway 87, Pittsboro, Chatham County, North Carolina
S&ME Project # 4305-18-110

Analytical Method →		Volatile Organic Compounds (VOCs) EPA Method 6200B (µg/L)										
Contaminant of Concern →		Benzene	Ethylbenzene	Diisopropyl Ether (DIPE)	Isopropylbenzene	Methyl tert-butyl ether	n-Propylbenzene	Styrene	1,2 Dichloroethane	1,2,4-Trimethylbenzene	Total Xylenes	Lead
Well ID	Date Collected											
WSW-1	12/15/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3 J
	1/3/2006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18
	5/25/2018	Not Sampled										
WSW-4	12/15/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3 J
	1/3/2006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/25/2018	Not Sampled										
WSW-5	12/15/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15
	5/25/2018	Not Sampled										
WSW-7	12/15/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0 J
	1/3/2006	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5/25/2018	Not Sampled										
WSW-8	7/21/1998	34.5	4.9	3.8	BDL	BDL	BDL	BDL	BDL	BDL	2.0	NA
	4/27/2000	4.5	BDL	BDL	BDL	5.6	BDL	BDL	0.6	BDL	BDL	NA
	12/15/2004	5.9	BDL	13	BDL	6.2	BDL	BDL	BDL	BDL	BDL	2.0 J
	1/3/2006	4.4	BDL	13	BDL	4.6	BDL	BDL	BDL	BDL	BDL	BDL
	5/25/2018	3.9	BDL	6.9	0.19 J	3.8	0.18 J	0.25 J	BDL	0.55	1.2	NA
WSW1-B	12/15/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	140
	5/25/2018	Destoryed										
2L Standard		1	600	70	70	20	70	70	0.4	400	500	15
GCL		5,000	84,500	70,000	25,000	20,000	30,000	70,000	400	28,500	85,500	15,000

Notes:

Analytes that are not shown for the method were not detected.

Concentrations are reported in micrograms per liter (µg/L).

J: Indicates detection above the method detection limit, but below the reporting limit; therefore, result is an estimated concentration

2L Standard: North Carolina Groundwater Quality Standards: 15A NCAC 2L.0202

Concentrations exceeding the 2L Standards are shown in Shaded and **BOLD** fields.

Concentrations exceeding the laboratory's reporting limits are shown in **BOLD** fields.

NA: Analysis for sample not requested.

GCL - Gross Contamination Level

BDL - Not detected in concentrations exceeding laboratory detection limits

Appendix III – Photographic Log



		Date: 5/24/2018			
<p>W 270 NW 300 N 0 NE 60</p> <p>5°N (T) 35°48'14"N, 79°15'2"W ±16.4ft ▲ 539ft</p>		Photographer: Jim Peele			
1	<table border="1"> <tr> <td style="text-align: center;">Location / Orientation</td> <td>Front of Subject Property</td> </tr> <tr> <td style="text-align: center;">Remarks</td> <td>Former Pump Island</td> </tr> </table>		Location / Orientation	Front of Subject Property	Remarks
Location / Orientation	Front of Subject Property				
Remarks	Former Pump Island				

		Date: 5/24/2018			
<p>S 150 SW 180 W 210 NW 270 330</p> <p>250°W (T) 35°48'15"N, 79°15'1"W ±16.4ft ▲ 557ft</p>		Photographer: Jim Peele			
2	<table border="1"> <tr> <td style="text-align: center;">Location / Orientation</td> <td>North Side of Property Oriented SW</td> </tr> <tr> <td style="text-align: center;">Remarks</td> <td>Large Shipping Container On Property</td> </tr> </table>		Location / Orientation	North Side of Property Oriented SW	Remarks
Location / Orientation	North Side of Property Oriented SW				
Remarks	Large Shipping Container On Property				



		Date: 5/24/2018
3	Location / Orientation	East Side of Subject Property, Oriented NE
	Remarks	Above-Ground Storage Tank

		Date: 5/24/2018
4	Location / Orientation	Back of Property oriented NW
	Remarks	Shed and AST on site



		Date: 5/24/2018
		Photographer: Jim Peele
5	Location / Orientation	MW-1 South
	Remarks	MW-1 Installation

		Date: 5/24/2018
		Photographer: Jim Peele
6	Location / Orientation	MW-1
	Remarks	Fragments from MW-1 Installation



		Date: 5/24/2018
		Date: 5/24/2018
7	Location / Orientation	Adjacent Property SW
	Remarks	Water Supply Well 8 and spigot sample was collected from

		Date: 5/24/2018
		Date: 5/24/2018
8	Location / Orientation	Water Supply Well 8
	Remarks	Sample collected from spigot attached to mobile home

**Appendix IV – Limited Site Assessment Risk Classification and
Land Use Form**



Limited Site Assessment Risk Classification and Land Use Form

Part I – Groundwater/Surface Water/Vapor Impacts

High Risk

1. Has the release contaminated any water supply well including any well used for non-drinking purposes? **YES/NO**
2. Is a water supply well used for drinking water located within 1,000 feet of the source area of the release? **YES/NO**
3. Is a water supply well not used for drinking water (e.g., irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area of the release? **YES/NO**
4. Does groundwater within 500 feet of the source area of the release have the potential for future use (there is no other source of water supply other than the groundwater)? **YES/NO**
5. Do vapors from the release pose a threat of explosion because of accumulation of the vapors in a confined space or pose any other serious threat to public health, public safety or the environment? **YES/NO**
If yes, describe.
N/A
6. Are there any other factors that would cause the release to pose an imminent danger to public health, public safety, or the environment? **YES/NO**
If yes, describe.
N/A

Intermediate Risk

7. Is a surface water body located within 500 feet of the source area of the release? **YES/NO**
If **YES**, does the maximum groundwater contaminant concentration exceed the surface water quality standards and criteria found in 15A NCAC 2B .0200 by a factor of 10? **YES/NO**
8. Is the source area of the release located within an approved or planned wellhead protection area as defined in 42 USC 300h-7(e)? **YES/NO**
If yes, describe.
N/A
9. Is the release located in the Coastal Plain physiographic region as designated on a map entitled "Geology of North Carolina" published by the Department in 1985? **YES/NO**
Eastern Piedmont
If **YES**, is the source area of the release located in an area in which there is recharge to an unconfined or semi-confined deeper aquifer that is being used or may be used as a source of drinking water? **YES/NO**
If **YES**, describe.
N/A
10. Do the levels of groundwater contamination for any contaminant exceed the gross contamination levels (See Table 4 and Table 5.) established by the Department? **YES/NO**

Part II - Land Use

Property Containing Source Area of Release

The questions below pertain to the property containing the source area of the release.

1. Does the property contain one or more primary or secondary residences (permanent or temporary)? **YES/NO**
Describe.
N/A



2. Does the property contain a school, daycare center, hospital, playground, park, recreation area, church, nursing home, or other place of public assembly? **YES/NO**
Describe.
N/A
3. Does the property contain a commercial (e.g., retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial enterprise, or is the land undeveloped? **YES/NO**
Describe. Inactive Commercial, Former car repair, television repair shop, and gas station
4. Do children visit the property? **YES/NO**
Explain.
Unknown/ not likely
- Is access to the property reliably restricted consistent with its use (e.g., by fences, security personnel or both)? **YES/NO**
Explain.
N/A
5. Do pavement, buildings, or other structures cap the contaminated soil? **YES/NO**
Describe.
N/A
If yes, what mechanisms are in place or can be put into place to ensure that the contaminated soil will remain capped in the foreseeable future?
N/A
6. What is the zoning status of the property?
The site is zoned as Light Industrial according to Chatham County GIS Tax Map, the surrounding properties are Residential
7. Is the use of the property likely to change in the next 20 years? **YES/NO**
Explain.
Unknown

Property Surrounding Source Area of Release

The questions below pertain to the area within 1,500 feet of the source area of the release (excludes property containing source area of the release):

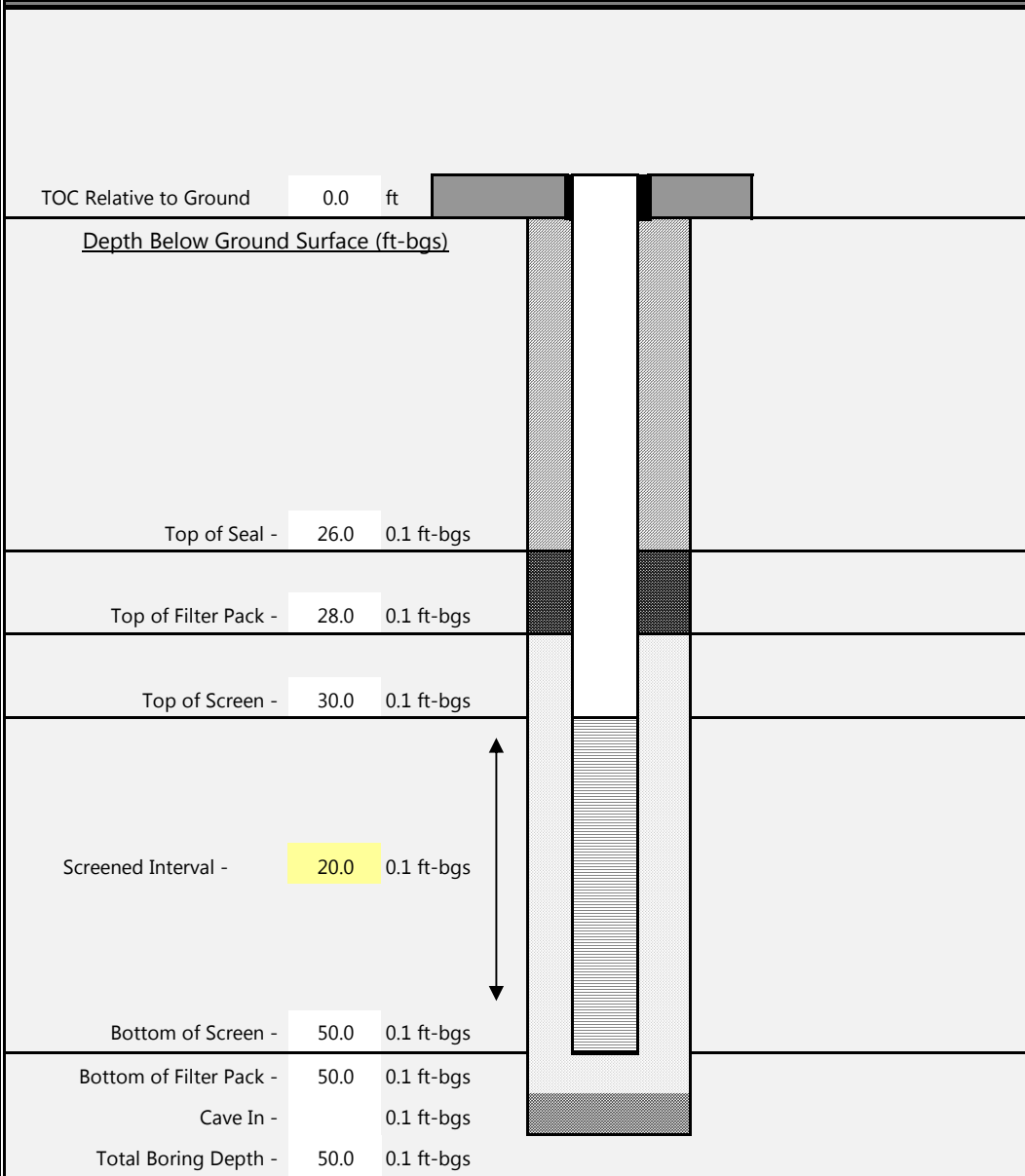
1. What is the distance from the source area of the release to the **nearest** primary or secondary residence (permanent or temporary)? Approximately 50 feet from the subject property line
2. What is the distance from the source area of the release to the **nearest** school, daycare center, hospital, playground, park, recreation area, church, nursing home or other place of public assembly? Approximately 2,000 feet from subject property line
3. What is the zoning status of properties in the surrounding area?
Residential Agricultural
4. Briefly characterize the use and activities of the land in the surrounding area.
Rural Residential and Agricultural.

Appendix V – Field Notes and Field Sampling Forms

WELL CONSTRUCTION DETAIL



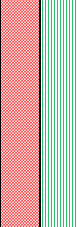

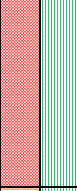

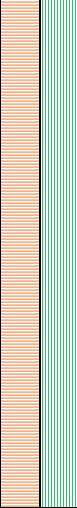

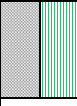



Well ID	Project Name	Project Number		
MW-1	Mann's Store	4305-18-110		
S&ME Staff	Installation Date	County	City	Well Permit Number
J. Peele	5/25/2018	Chatham	Pittsboro	
Drilling Contractor		License Number	Drill Rig	Well Type / Use
S&ME		2709	GeoProbe 7730DT	Flush Monitor Well
Water Level at TOB (0.01 ft- BTOC)	Date/Time	Northing (0.1 ft)	Land Surface Elev. (0.01 ft)	Drilling Method
		TBD	TBD	Air Rotary
Depth to Water (0.01 ft- BTOC)	Date/Time	Easting (0.1 ft)	Total Well Depth (0.1 ft-bgs)	Borehole Diameter (1 in)
		TBD	50.0	4



Pad Type		
2' x 2' Concrete		
Protective Casing		
Flush Vault (8" diam)		
Casing Material		
2-in Sch 40 PVC		
Casing Interval (0.1 ft-bgs)		
0.0	to	30.0
Screen Type		
2-in Sch 40 PVC (0.010)		
Screen Interval (0.1 ft-bgs)		
30.0	to	50.0
Grout Type		
READY Mix		
Grout Interval (0.1 ft-bgs)		
0.0	to	26.0
Seal Type		
3/8 in. Holeplug®		
Seal Interval (0.1 ft-bgs)		
26.0	to	28.0
Filter Pack		
#2 Silica Sand		
Filter Pack Interval (0.1 ft-bgs)		
28.0	to	50.0
Development		
No		
Development Volume (gal)		

Notes:

BTOC - Below Top of Casing
 TBD - To Be Determined
 For lithologic information see attached boring log

PROJECT: Mann's Store Pitts pro, NC S&ME Project No. 4305-18-110			BORING LOG: MW-1							
DATE DRILLED:	Thursday, May 24, 2018	BORING DEPTH (FT):	50							
DRILL RIG:	Geoprobe 7730 DT	WATER LEVEL:								
DRILLER:	S&ME, Inc.	CAVE-IN DEPTH:								
HAMMER TYPE:	Not Applicable	LOGGED BY:	J. Peele							
SAMPLING METHOD:	Macro-Core Sampler	NORTHING:								
DRILLING METHOD:	Hollow Stem Augers (4 1/4-in. ID)	EASTING:								
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	WATER LEVEL	SAMPLE	PID READING (PPM)	LABORATORY ANALYSES	Sample Time / 1st 6in	2nd 6in	3rd 6in	N VALUE
0 - 5		Fill, Silt, Soft, Brown, Orange, Tan, Fine, Some Clay and sand intermixed, Moist, Macro core refusal at			2.4					
5 - 10		Residuum, Silt, Firm, Light Brown, Brown, Low Moisture, Petroleum Odors			2.8	Yes				
10 - 20		Partially Weathered Rock, Silt, Hard, Gray, Some Rock Fragments, Dry,								
20 - 30		Rock, Siltstone, Gray, Dry. Possible fractures ~42-50,								
30 - 50										

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Thomas Whitehead

Well Contractor Name

2907-A

NC Well Contractor Certification Number

S&ME Inc

Company Name

2. Well Construction Permit #: N/A

List all applicable well permits (i.e. County, State, Variance, Injection, etc.)

3. Well Use (check well use):

Water Supply Well:

- Agricultural Municipal/Public
 Geothermal (Heating/Cooling Supply) Residential Water Supply (single)
 Industrial/Commercial Residential Water Supply (shared)
 Irrigation

Non-Water Supply Well:

- Monitoring Recovery

Injection Well:

- Aquifer Recharge Groundwater Remediation
 Aquifer Storage and Recovery Salinity Barrier
 Aquifer Test Stormwater Drainage
 Experimental Technology Subsidence Control
 Geothermal (Closed Loop) Tracer
 Geothermal (Heating/Cooling Return) Other (explain under #21 Remarks)

4. Date Well(s) Completed: 5/25/18 Well ID# MW-1

5a. Well Location:

Mann Store

Facility/Owner Name

Facility ID# (if applicable)

7070 NC Highway 87 Pittsboro NC

Physical Address, City, and Zip

Chatham

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35.804008 N -79.250521 W

6. Is (are) the well(s): Permanent or Temporary

7. Is this a repair to an existing well: Yes or No

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1
For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 50 (ft.)
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ (ft.)
If water level is above casing, use "+"

11. Borehole diameter: 4 (in.)

12. Well construction method: Air
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ Method of test: _____

13b. Disinfection type: _____ Amount: _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	30 ft.	2 in.	Sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
30 ft.	50 ft.	2 in.	.010	Sch 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0 ft.	26 ft.	Cement	Pour
26 ft.	28 ft.	Bentonite	Pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

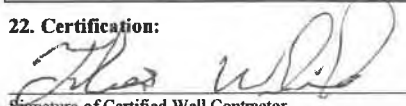
FROM	TO	MATERIAL	EMPLACEMENT METHOD
28 ft.	50 ft.	#2 Sand	Pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	8.5 ft.	Brown Orange Silt (Fill)
8.5 ft.	19 ft.	Brown Silt (Residuum)
19 ft.	21 ft.	PWR Gray Silt
21 ft.	50 ft.	Siltstone
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:


Signature of Certified Well Contractor 6/4/18
Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells ONLY: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells:

Also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

GROUNDWATER SAMPLING FORM



Project Name:	Mann's Store	Purge Date:	May 25, 2018
Project Location:	Pittsboro NC	Purge Time (Min.):	16
Project Number:	4305-18-110	Sample Date:	May 25, 2018
Source Well:	MW-1	Sample Time:	
Locked?:	Yes	Air Temp:	° F
Sampled By:	J Peele		
Weather:	Sunny		

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check
pH			4.00, 7.00, 10.00	
Conductivity			µS/cm	µS/cm

Water Level & Well Data

Measuring Point:		Top of Casing		Well Volume		
Depth to Water:	34.43	ft-TOC	Well Diameter	2	inch	
Total Well Depth:	50.00	ft-TOC	Well Volume	2.5	gal	
Height of Water Column:	15.57	feet	3 * Well Volume	7.6	gal	
Screen Length:	20	ft-GRD	5 * Well Volume	12.7	gal	
Stickup Height:	0	ft-GRD				

Well Purging Information

Purge Method:
Purge Start Time:
End Time:

Total Volume Purged: gal
 Well Purged Dry?:

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity (NTU)	Comments
1.0	13:00	7.0	20.4	2,190		
2.5	13:08	6.8	18.3	2,490		
4.0	13:12	6.7	17.1	2,630		Purged dry at 4gal

Sample Method:
Sample Time:

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.

Name	Signature	Date
(1) Jim Peele		5/25/2018

Notes:

WATER SUPPLY WELL SAMPLING FORM



Project Name:	Mann's Store		
Project Location:	Pittsboro, NC		
Project Number:	4305-18-110	Sample Date:	5/25/2018
Client Name/Contact:	NCDEQ	Water Supply Well ID:	WSW-1
Weather:	Sunny	Well Address:	
Air Temp (°F):	85	Owner Name:	
POE Present (Y/N):	No	Owner Phone No.:	

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	5/25/18	11:20	4.00, 7.00, 10.00	4.01	7.00	10.02
Conductivity	5/25/18	11:20	1413 μ S/cm	1,411 Units		

Well Purging Information

Purge Rate (GPM):	7.0	Purge Start Time:	11:25
Volume Purged (Gal):	-7,875.0	Purge End Time:	

Field Parameters and Sampling

Total Volume (Gal)	Time	pH (s.u.)	Temperature	°C	Conductivity	mS/cm
7.00	11:26	6.7	18.8		2.6	
15.00	11:31	6.6	17.7		2.84	
22.00	11:36	6.69	17.5		2.91	
28.00	11:40	6.66	17.8		2.96	
35.00	11:45	6.68	17.8		2.89	

Sample ID	Sample Location	Sample Date	Sample Time
WSW-1	Spigot on Side of House	5/25/2018	11:50

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
VOCs 8260	3	40mL VOAs	HCl				

<p>Additional Comments (description of location of sample port, water well, filters, etc.)</p> <p style="text-align: center;">Petroleum odor from water</p>	<p>Well / System Photographs</p>
<p style="text-align: center;">Site Sketch</p>	

Name	Signature	Date
(1) Jim Peele		5/25/2018
(2)		

**Appendix VI– Laboratory Analytical Reports and Chain of Custody
Forms**

June 6, 2018

Michael Pfeifer
S&ME, Inc - Raleigh, NC
3201 Spring Forest Rd.
Raleigh, NC 27616

Project Location: Pittsboro, NC
Client Job Number:
Project Number: 4305-18-110
Laboratory Work Order Number: 18E1498

Enclosed are results of analyses for samples received by the laboratory on May 25, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

S&ME, Inc - Raleigh, NC
 3201 Spring Forest Rd.
 Raleigh, NC 27616
 ATTN: Michael Pfeifer

REPORT DATE: 6/6/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 4305-18-110

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E1498

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Pittsboro, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-1	18E1498-01	Soil		MADEP-VPH-Feb 2018 Rev 2.1 SM 2540G SW-846 8260B	
MW-1	18E1498-02	Ground Water		MADEP-VPH-Feb 2018 Rev 2.1 SM21-22 6200B	
WSW-1	18E1498-03	Water		SM21-22 6200B	

EXECUTIVE SUMMARY

Client ID: **SS-1**

Lab ID: **18E1498-01**

Analyte	Results/Qual	DL	RL	Units	Method
% Solids	77.7			% Wt	SM 2540G

Client ID: **MW-1**

Lab ID: **18E1498-02**

Analyte	Results/Qual	DL	RL	Units	Method
1,2,4-Trimethylbenzene	42	0.18	0.50	µg/L	SM21-22 6200B
1,3,5-Trimethylbenzene	7.5	0.13	0.50	µg/L	SM21-22 6200B
Benzene	63	0.12	0.50	µg/L	SM21-22 6200B
Diisopropyl Ether (DIPE)	52	0.18	0.50	µg/L	SM21-22 6200B
Ethylbenzene	52	0.13	0.50	µg/L	SM21-22 6200B
Isopropylbenzene (Cumene)	12	0.12	0.50	µg/L	SM21-22 6200B
m+p Xylene	35	0.26	1.0	µg/L	SM21-22 6200B
Methyl tert-Butyl Ether (MTBE)	35	0.090	0.50	µg/L	SM21-22 6200B
Naphthalene	29	0.12	5.0	µg/L	SM21-22 6200B
n-Butylbenzene	4.2	0.15	0.50	µg/L	SM21-22 6200B
n-Propylbenzene	21	0.13	0.50	µg/L	SM21-22 6200B
o-Xylene	0.82	0.13	0.50	µg/L	SM21-22 6200B
p-Isopropyltoluene (p-Cymene)	0.84	0.15	0.50	µg/L	SM21-22 6200B
sec-Butylbenzene	3.5	0.13	0.50	µg/L	SM21-22 6200B
tert-Butylbenzene	0.35 J	0.12	0.50	µg/L	SM21-22 6200B
Toluene	1.9	0.17	0.50	µg/L	SM21-22 6200B
C5-C8 Aliphatics	770	50	100	µg/L	MADEP-VPH-Feb 2018 I
C9-C10 Aromatics	360	28	100	µg/L	MADEP-VPH-Feb 2018 I
Unadjusted C5-C8 Aliphatics	870	50	100	µg/L	MADEP-VPH-Feb 2018 I
Unadjusted C9-C12 Aliphatics	550	36	100	µg/L	MADEP-VPH-Feb 2018 I

Client ID: **WSW-1**

Lab ID: **18E1498-03**

Analyte	Results/Qual	DL	RL	Units	Method
1,2,4-Trimethylbenzene	0.55	0.18	0.50	µg/L	SM21-22 6200B
Benzene	3.9	0.12	0.50	µg/L	SM21-22 6200B
Diisopropyl Ether (DIPE)	6.9	0.18	0.50	µg/L	SM21-22 6200B
Isopropylbenzene (Cumene)	0.19 J	0.12	0.50	µg/L	SM21-22 6200B
m+p Xylene	1.2	0.26	1.0	µg/L	SM21-22 6200B
Methyl tert-Butyl Ether (MTBE)	3.8	0.090	0.50	µg/L	SM21-22 6200B
n-Propylbenzene	0.18 J	0.13	0.50	µg/L	SM21-22 6200B
Styrene	0.25 J	0.15	0.50	µg/L	SM21-22 6200B

Con-Test does not accept liability for the consequences of any actions taken solely on the basis of the information provided in the Executive Summary section of this report. Users must review this report in its entirety to determine data usability and assessment.

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method MA VPH only hydrocarbon ranges were requested and reported.

MADEP-VPH-Feb 2018 Rev 2.1**Qualifications:****O-01**

Soil/methanol ratio does not meet method specifications. Excess amount of soil. Sample was completely covered with methanol, but with less than the method-specified amount.

Analyte & Samples(s) Qualified:

18E1498-01[SS-1]

SM21-22 6200B**Qualifications:****L-04**

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2,2-Dichloropropane**

18E1498-02[MW-1], B204720-BLK1, B204720-BS1, B204720-BSD1, S023857-CCV1

Acetone

18E1498-02[MW-1], B204720-BLK1, B204720-BS1, B204720-BSD1, S023857-CCV1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**1,2,3-Trichlorobenzene**

B204809-BS1

SW-846 8260B**Qualifications:****L-02**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**1,1-Dichloroethylene**

B204551-BS1, B204551-BSD1

Bromochloromethane

B204551-BS1, B204551-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:**Tetrahydrofuran**

18E1498-01[SS-1], B204551-BLK1, B204551-BS1, B204551-BSD1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Bromomethane**

B204551-BS1, B204551-BSD1, S023697-CCV1

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MADEP-VPH-Feb 2018 Rev 2.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is Carbopack B/CarboSieveS-III.

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is Carbopack B/CarboSieveS-III.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink that reads "Tod Kopyscinski". The signature is written in a cursive, somewhat stylized font.

Tod E. Kopyscinski
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: SS-1

Sampled: 5/24/2018 09:35

Sample ID: 18E1498-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Acrylonitrile	ND	0.0080	0.0033	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Benzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Bromobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Bromochloromethane	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Bromodichloromethane	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Bromoform	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Bromomethane	ND	0.013	0.0056	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
2-Butanone (MEK)	ND	0.053	0.023	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
tert-Butyl Alcohol (TBA)	ND	0.053	0.028	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
n-Butylbenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
sec-Butylbenzene	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
tert-Butylbenzene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Carbon Disulfide	ND	0.027	0.0057	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Carbon Tetrachloride	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Chlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Chlorodibromomethane	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Chloroethane	ND	0.027	0.0020	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Chloroform	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Chloromethane	ND	0.013	0.0085	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
2-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
4-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	0.0015	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Dibromomethane	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2-Dichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,3-Dichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,4-Dichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.0053	0.0028	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	0.0017	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1-Dichloroethane	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2-Dichloroethane	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1-Dichloroethylene	ND	0.0053	0.0015	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
cis-1,2-Dichloroethylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
trans-1,2-Dichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2-Dichloropropane	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,3-Dichloropropane	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
2,2-Dichloropropane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1-Dichloropropene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Diethyl Ether	ND	0.027	0.0024	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: SS-1

Sampled: 5/24/2018 09:35

Sample ID: 18E1498-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,4-Dioxane	ND	0.13	0.076	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Ethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Hexachlorobutadiene	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
2-Hexanone (MBK)	ND	0.027	0.014	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Isopropylbenzene (Cumene)	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Methylene Chloride	ND	0.027	0.0094	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.027	0.010	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Naphthalene	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
n-Propylbenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Styrene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	0.0024	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Tetrachloroethylene	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Tetrahydrofuran	ND	0.013	0.0029	mg/Kg dry	1	R-05	SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Toluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2,3-Trichlorobenzene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2,4-Trichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,3,5-Trichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1,1-Trichloroethane	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1,2-Trichloroethane	ND	0.0027	0.0016	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Trichloroethylene	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2,3-Trichloropropane	ND	0.0027	0.0015	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,2,4-Trimethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
1,3,5-Trimethylbenzene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
Vinyl Chloride	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
m+p Xylene	ND	0.0053	0.0023	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF
o-Xylene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	5/30/18	5/30/18 10:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	110	70-130	5/30/18 10:16
Toluene-d8	108	70-130	5/30/18 10:16
4-Bromofluorobenzene	86.1	70-130	5/30/18 10:16

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: SS-1

Sampled: 5/24/2018 09:35

Sample ID: 18E1498-01

Sample Matrix: Soil

Sample Flags: O-01

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.40

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	5/29/18	5/29/18 22:34	EEH
C5-C8 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	5/29/18	5/29/18 22:34	EEH
Unadjusted C9-C12 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	5/29/18	5/29/18 22:34	EEH
C9-C12 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	5/29/18	5/29/18 22:34	EEH
C9-C10 Aromatics	ND	12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	5/29/18	5/29/18 22:34	EEH
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2,5-Dibromotoluene (FID)		87.8	70-130					5/29/18 22:34	
2,5-Dibromotoluene (PID)		77.2	70-130					5/29/18 22:34	

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Sampled: 5/24/2018 09:35

Field Sample #: SS-1

Sample ID: 18E1498-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.7		% Wt	1		SM 2540G	6/4/18	6/5/18 7:16	MJR

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: MW-1

Sample ID: 18E1498-02

Start Date/Time: 5/25/2018 1:25:00PM

Sample Matrix: Ground Water

Stop Date/Time: 5/25/2018 1:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1	L-04	SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Benzene	63	0.50	0.12	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Bromobenzene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Bromomethane	ND	5.0	0.94	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
n-Butylbenzene	4.2	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
sec-Butylbenzene	3.5	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
tert-Butylbenzene	0.35	0.50	0.12	µg/L	1	J	SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Carbon Tetrachloride	ND	0.50	0.25	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Chlorobenzene	ND	0.50	0.16	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Ethanol	ND	50	28	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Chloroethane	ND	0.50	0.28	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Chloroform	ND	0.50	0.22	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
2-Chlorotoluene	ND	0.50	0.12	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
4-Chlorotoluene	ND	0.50	0.14	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,3-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,4-Dichlorobenzene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.28	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,1-Dichloroethylene	ND	0.50	0.21	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2-Dichloropropane	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
2,2-Dichloropropane	ND	0.50	0.21	µg/L	1	L-04	SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Diisopropyl Ether (DIPE)	52	0.50	0.18	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Ethylbenzene	52	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Isopropylbenzene (Cumene)	12	0.50	0.12	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
p-Isopropyltoluene (p-Cymene)	0.84	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Methyl tert-Butyl Ether (MTBE)	35	0.50	0.090	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: MW-1

Sample ID: 18E1498-02

Start Date/Time: 5/25/2018 1:25:00PM

Sample Matrix: Ground Water

Stop Date/Time: 5/25/2018 1:30:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	29	5.0	0.12	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
n-Propylbenzene	21	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Styrene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Tetrachloroethylene	ND	0.50	0.27	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Toluene	1.9	0.50	0.17	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2,4-Trichlorobenzene	ND	2.0	0.19	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,1,1-Trichloroethane	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,1,2-Trichloroethane	ND	0.50	0.24	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Trichloroethylene	ND	0.50	0.20	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2,3-Trichloropropane	ND	0.50	0.22	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,2,4-Trimethylbenzene	42	0.50	0.18	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
1,3,5-Trimethylbenzene	7.5	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Vinyl Acetate	ND	5.0	1.4	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
m+p Xylene	35	1.0	0.26	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH
o-Xylene	0.82	0.50	0.13	µg/L	1		SM21-22 6200B	6/1/18	6/2/18 13:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.4	70-130	
Toluene-d8	99.7	70-130	
4-Bromofluorobenzene	94.7	70-130	

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: MW-1

Sample ID: 18E1498-02

Start Date/Time: 5/25/2018 1:25:00PM

Sample Matrix: Ground Water

Stop Date/Time: 5/25/2018 1:30:00PM

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	870	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	5/31/18	6/1/18 12:01	EEH
C5-C8 Aliphatics	770	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	5/31/18	6/1/18 12:01	EEH
Unadjusted C9-C12 Aliphatics	550	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	5/31/18	6/1/18 12:01	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	5/31/18	6/1/18 12:01	EEH
C9-C10 Aromatics	360	100	µg/L	1		MADEP-VPH-Feb 2018 Rev 2.1	5/31/18	6/1/18 12:01	EEH
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
2,5-Dibromotoluene (FID)	97.9		70-130						6/1/18 12:01
2,5-Dibromotoluene (PID)	91.7		70-130						6/1/18 12:01

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Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: WSW-1

Sample ID: 18E1498-03

Start Date/Time: 5/25/2018 11:55:00AM

Sample Matrix: Water

Stop Date/Time: 5/25/2018 12:05:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Benzene	3.9	0.50	0.12	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Bromobenzene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Bromochloromethane	ND	0.50	0.22	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Bromomethane	ND	5.0	0.94	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
2-Butanone (MEK)	ND	5.0	2.4	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
n-Butylbenzene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
sec-Butylbenzene	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
tert-Butylbenzene	ND	0.50	0.12	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Carbon Tetrachloride	ND	0.50	0.25	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Chlorobenzene	ND	0.50	0.16	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Ethanol	ND	50	28	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Chloroethane	ND	0.50	0.28	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Chloroform	ND	0.50	0.22	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
2-Chlorotoluene	ND	0.50	0.12	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
4-Chlorotoluene	ND	0.50	0.14	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,3-Dichlorobenzene	ND	0.50	0.17	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,4-Dichlorobenzene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.28	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,1-Dichloroethane	ND	0.50	0.16	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,1-Dichloroethylene	ND	0.50	0.21	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
cis-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
trans-1,2-Dichloroethylene	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2-Dichloropropane	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
2,2-Dichloropropane	ND	0.50	0.21	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,1-Dichloropropene	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Diisopropyl Ether (DIPE)	6.9	0.50	0.18	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Ethylbenzene	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
2-Hexanone (MBK)	ND	5.0	1.5	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Isopropylbenzene (Cumene)	0.19	0.50	0.12	µg/L	1	J	SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Methyl tert-Butyl Ether (MTBE)	3.8	0.50	0.090	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	1.5	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsboro, NC

Sample Description:

Work Order: 18E1498

Date Received: 5/25/2018

Field Sample #: WSW-1

Sample ID: 18E1498-03

Start Date/Time: 5/25/2018 11:55:00AM

Sample Matrix: Water

Stop Date/Time: 5/25/2018 12:05:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	0.12	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
n-Propylbenzene	0.18	0.50	0.13	µg/L	1	J	SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Styrene	0.25	0.50	0.15	µg/L	1	J	SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Tetrachloroethylene	ND	0.50	0.27	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Toluene	ND	0.50	0.17	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2,4-Trichlorobenzene	ND	2.0	0.19	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,1,1-Trichloroethane	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,1,2-Trichloroethane	ND	0.50	0.24	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Trichloroethylene	ND	0.50	0.20	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Trichlorofluoromethane (Freon 11)	ND	0.50	0.15	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2,3-Trichloropropane	ND	0.50	0.22	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,2,4-Trimethylbenzene	0.55	0.50	0.18	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
1,3,5-Trimethylbenzene	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Vinyl Acetate	ND	5.0	1.4	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
Vinyl Chloride	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
m+p Xylene	1.2	1.0	0.26	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH
o-Xylene	ND	0.50	0.13	µg/L	1		SM21-22 6200B	6/4/18	6/4/18 14:46	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	95.8	70-130	6/4/18 14:46
Toluene-d8	100	70-130	6/4/18 14:46
4-Bromofluorobenzene	90.0	70-130	6/4/18 14:46

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Sample Extraction Data

Prep Method: MA VPH-MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E1498-01 [SS-1]	B204406	7.00	6.60	05/29/18

Prep Method: MA VPH-MADEP-VPH-Feb 2018 Rev 2.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1498-02 [MW-1]	B204608	5	5.00	05/31/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18E1498-01 [SS-1]	B204889	06/04/18

Prep Method: SW-846 5030B-SM21-22 6200B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1498-02 [MW-1]	B204720	5	5.00	06/01/18

Prep Method: SW-846 5030B-SM21-22 6200B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1498-03 [WSW-1]	B204809	5	5.00	06/04/18

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E1498-01 [SS-1]	B204551	4.85	10.0	05/30/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204551 - SW-846 5035

Blank (B204551-BLK1)

Prepared & Analyzed: 05/30/18

Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diethyl Ether	ND	0.020	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204551 - SW-846 5035

Blank (B204551-BLK1)

Prepared & Analyzed: 05/30/18

Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							R-05
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							

Surrogate: 1,2-Dichloroethane-d4	0.0524		mg/Kg wet	0.0500		105	70-130			
Surrogate: Toluene-d8	0.0541		mg/Kg wet	0.0500		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0444		mg/Kg wet	0.0500		88.9	70-130			

LCS (B204551-BS1)

Prepared & Analyzed: 05/30/18

Acetone	0.273	0.10	mg/Kg wet	0.200		137	70-160			†
Acrylonitrile	0.0234	0.0060	mg/Kg wet	0.0200		117	70-130			
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.0200		99.9	70-130			
Benzene	0.0241	0.0020	mg/Kg wet	0.0200		120	70-130			
Bromobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.2	70-130			
Bromochloromethane	0.0290	0.0020	mg/Kg wet	0.0200		145 *	70-130			L-02
Bromodichloromethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromoform	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130			
Bromomethane	0.0212	0.010	mg/Kg wet	0.0200		106	40-130			V-34 †
2-Butanone (MEK)	0.220	0.040	mg/Kg wet	0.200		110	70-160			†
tert-Butyl Alcohol (TBA)	0.223	0.040	mg/Kg wet	0.200		112	40-130			†
n-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
sec-Butylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
tert-Butylbenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0192	0.0010	mg/Kg wet	0.0200		96.1	70-130			
Carbon Disulfide	0.0248	0.0060	mg/Kg wet	0.0200		124	70-130			
Carbon Tetrachloride	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
Chlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
Chlorodibromomethane	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0229	0.020	mg/Kg wet	0.0200		114	70-130			
Chloroform	0.0253	0.0040	mg/Kg wet	0.0200		126	70-130			
Chloromethane	0.0181	0.010	mg/Kg wet	0.0200		90.6	70-130			
2-Chlorotoluene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204551 - SW-846 5035										
LCS (B204551-BS1)										
Prepared & Analyzed: 05/30/18										
4-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
1,2-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
1,3-Dichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
1,4-Dichlorobenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
trans-1,4-Dichloro-2-butene	0.0169	0.0040	mg/Kg wet	0.0200		84.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.00945	0.020	mg/Kg wet	0.0200		47.2	40-160			J †
1,1-Dichloroethane	0.0245	0.0020	mg/Kg wet	0.0200		123	70-130			
1,2-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1-Dichloroethylene	0.0267	0.0040	mg/Kg wet	0.0200		134	* 70-130			L-02
cis-1,2-Dichloroethylene	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130			
trans-1,2-Dichloroethylene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
1,3-Dichloropropane	0.0225	0.0010	mg/Kg wet	0.0200		112	70-130			
2,2-Dichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.4	70-130			
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130			
cis-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		91.9	70-130			
trans-1,3-Dichloropropene	0.0178	0.0010	mg/Kg wet	0.0200		89.0	70-130			
Diethyl Ether	0.0246	0.020	mg/Kg wet	0.0200		123	70-130			
Diisopropyl Ether (DIPE)	0.0231	0.0010	mg/Kg wet	0.0200		116	70-130			
1,4-Dioxane	0.247	0.10	mg/Kg wet	0.200		124	40-160			†
Ethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
Hexachlorobutadiene	0.0173	0.0020	mg/Kg wet	0.0200		86.3	70-160			
2-Hexanone (MBK)	0.235	0.020	mg/Kg wet	0.200		118	70-160			†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130			
p-Isopropyltoluene (p-Cymene)	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0221	0.0040	mg/Kg wet	0.0200		110	70-130			
Methylene Chloride	0.0288	0.020	mg/Kg wet	0.0200		144	40-160			†
4-Methyl-2-pentanone (MIBK)	0.222	0.020	mg/Kg wet	0.200		111	70-160			†
Naphthalene	0.0149	0.0040	mg/Kg wet	0.0200		74.5	40-130			†
n-Propylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,1,1,2-Tetrachloroethane	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130			
1,1,2,2-Tetrachloroethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Tetrachloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0179	0.010	mg/Kg wet	0.0200		89.5	70-130			R-05
Toluene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2,3-Trichlorobenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.9	70-130			
1,2,4-Trichlorobenzene	0.0146	0.0020	mg/Kg wet	0.0200		73.2	70-130			
1,3,5-Trichlorobenzene	0.0157	0.0020	mg/Kg wet	0.0200		78.5	70-130			
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Trichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Trichlorofluoromethane (Freon 11)	0.0243	0.010	mg/Kg wet	0.0200		121	70-130			
1,2,3-Trichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			
1,2,4-Trimethylbenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.9	70-130			
1,3,5-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
Vinyl Chloride	0.0207	0.010	mg/Kg wet	0.0200		104	40-130			†

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204551 - SW-846 5035										
LCS (B204551-BS1)										
Prepared & Analyzed: 05/30/18										
m+p Xylene	0.0368	0.0040	mg/Kg wet	0.0400		92.1	70-130			
o-Xylene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0544		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0491		mg/Kg wet	0.0500		98.2	70-130			
LCS Dup (B204551-BSD1)										
Prepared & Analyzed: 05/30/18										
Acetone	0.277	0.10	mg/Kg wet	0.200		138	70-160	1.17	25	†
Acrylonitrile	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	13.7	25	
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	0.130	25	
Benzene	0.0244	0.0020	mg/Kg wet	0.0200		122	70-130	1.33	25	
Bromobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7	70-130	0.553	25	
Bromochloromethane	0.0304	0.0020	mg/Kg wet	0.0200		152 *	70-130	4.73	25	L-02
Bromodichloromethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	2.51	25	
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	6.83	25	
Bromomethane	0.0211	0.010	mg/Kg wet	0.0200		105	40-130	0.416	25	V-34 †
2-Butanone (MEK)	0.211	0.040	mg/Kg wet	0.200		106	70-160	3.85	25	†
tert-Butyl Alcohol (TBA)	0.215	0.040	mg/Kg wet	0.200		108	40-130	3.56	25	†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130	2.17	25	
sec-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	2.45	25	
tert-Butylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-160	6.90	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0191	0.0010	mg/Kg wet	0.0200		95.7	70-130	0.344	25	
Carbon Disulfide	0.0243	0.0060	mg/Kg wet	0.0200		122	70-130	1.93	25	
Carbon Tetrachloride	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	1.38	25	
Chlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130	2.26	25	
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130	0.527	25	
Chloroethane	0.0184	0.020	mg/Kg wet	0.0200		91.8	70-130	22.0	25	J
Chloroform	0.0257	0.0040	mg/Kg wet	0.0200		128	70-130	1.47	25	
Chloromethane	0.0177	0.010	mg/Kg wet	0.0200		88.4	70-130	2.43	25	
2-Chlorotoluene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130	1.76	25	
4-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	0.907	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0175	0.0020	mg/Kg wet	0.0200		87.3	70-130	0.874	25	
1,2-Dibromoethane (EDB)	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	2.23	25	
Dibromomethane	0.0245	0.0020	mg/Kg wet	0.0200		123	70-130	6.20	25	
1,2-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130	2.11	25	
1,3-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130	6.10	25	
1,4-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	3.25	25	
trans-1,4-Dichloro-2-butene	0.0166	0.0040	mg/Kg wet	0.0200		83.2	70-130	1.66	25	
Dichlorodifluoromethane (Freon 12)	0.00927	0.020	mg/Kg wet	0.0200		46.4	40-160	1.88	25	J †
1,1-Dichloroethane	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130	1.05	25	
1,2-Dichloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	1.04	25	
1,1-Dichloroethylene	0.0272	0.0040	mg/Kg wet	0.0200		136 *	70-130	1.68	25	L-02
cis-1,2-Dichloroethylene	0.0244	0.0020	mg/Kg wet	0.0200		122	70-130	0.543	25	
trans-1,2-Dichloroethylene	0.0245	0.0020	mg/Kg wet	0.0200		123	70-130	3.84	25	
1,2-Dichloropropane	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	6.83	25	
1,3-Dichloropropane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130	6.83	25	
2,2-Dichloropropane	0.0171	0.0020	mg/Kg wet	0.0200		85.4	70-130	1.25	25	
1,1-Dichloropropene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	3.84	25	
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.4	70-130	2.64	25	
trans-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.4	70-130	1.49	25	
Diethyl Ether	0.0243	0.020	mg/Kg wet	0.0200		121	70-130	1.38	25	
Diisopropyl Ether (DIPE)	0.0235	0.0010	mg/Kg wet	0.0200		118	70-130	1.83	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204551 - SW-846 5035

LCS Dup (B204551-BSD1)

Prepared & Analyzed: 05/30/18

1,4-Dioxane	0.216	0.10	mg/Kg wet	0.200		108	40-160	13.8	50	† ‡
Ethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	2.72	25	
Hexachlorobutadiene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-160	10.4	25	
2-Hexanone (MBK)	0.229	0.020	mg/Kg wet	0.200		114	70-160	2.76	25	†
Isopropylbenzene (Cumene)	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	2.53	25	
p-Isopropyltoluene (p-Cymene)	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130	3.36	25	
Methyl tert-Butyl Ether (MTBE)	0.0225	0.0040	mg/Kg wet	0.0200		112	70-130	1.68	25	
Methylene Chloride	0.0298	0.020	mg/Kg wet	0.0200		149	40-160	3.33	25	†
4-Methyl-2-pentanone (MIBK)	0.227	0.020	mg/Kg wet	0.200		114	70-160	2.30	25	†
Naphthalene	0.0152	0.0040	mg/Kg wet	0.0200		76.1	40-130	2.18	25	†
n-Propylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130	1.37	25	
Styrene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130	0.372	25	
1,1,1,2-Tetrachloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.7	70-130	1.73	25	
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		106	70-130	5.94	25	
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	4.94	25	
Tetrahydrofuran	0.0235	0.010	mg/Kg wet	0.0200		118	70-130	27.1 *	25	R-05
Toluene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.709	25	
1,2,3-Trichlorobenzene	0.0160	0.0020	mg/Kg wet	0.0200		79.9	70-130	3.93	25	
1,2,4-Trichlorobenzene	0.0157	0.0020	mg/Kg wet	0.0200		78.3	70-130	6.65	25	
1,3,5-Trichlorobenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.4	70-130	1.05	25	
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	0.0281	25	
1,1,2-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	2.48	25	
Trichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	2.28	25	
Trichlorofluoromethane (Freon 11)	0.0237	0.010	mg/Kg wet	0.0200		118	70-130	2.69	25	
1,2,3-Trichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	3.85	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0218	0.010	mg/Kg wet	0.0200		109	70-130	2.81	25	
1,2,4-Trimethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.6	70-130	5.46	25	
1,3,5-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130	3.82	25	
Vinyl Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.4	40-130	9.43	25	†
m+p Xylene	0.0367	0.0040	mg/Kg wet	0.0400		91.8	70-130	0.326	25	
o-Xylene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130	1.10	25	
Surrogate: 1,2-Dichloroethane-d4	0.0547		mg/Kg wet	0.0500		109	70-130			
Surrogate: Toluene-d8	0.0542		mg/Kg wet	0.0500		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0484		mg/Kg wet	0.0500		96.8	70-130			

Batch B204720 - SW-846 5030B

Blank (B204720-BLK1)

Prepared: 06/01/18 Analyzed: 06/02/18

Acetone	ND	50	µg/L							L-04
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204720 - SW-846 5030B

Blank (B204720-BLK1)

Prepared: 06/01/18 Analyzed: 06/02/18

Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							L-04
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	0.50	µg/L							
Styrene	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	0.50	µg/L							
Trichlorofluoromethane (Freon 11)	ND	0.50	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Acetate	ND	5.0	µg/L							
Vinyl Chloride	ND	0.50	µg/L							
m+p Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.7		µg/L	25.0		94.9	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	23.7		µg/L	25.0		94.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204720 - SW-846 5030B

LCS (B204720-BS1)

Prepared: 06/01/18 Analyzed: 06/02/18

Acetone	64.1	50	µg/L	100		64.1	* 70-130			L-04 †
Benzene	10.1	0.50	µg/L	10.0		101	70-130			
Bromobenzene	9.45	0.50	µg/L	10.0		94.5	70-130			
Bromochloromethane	11.1	0.50	µg/L	10.0		111	70-130			
Bromodichloromethane	9.27	0.50	µg/L	10.0		92.7	70-130			
Bromoform	8.36	0.50	µg/L	10.0		83.6	70-130			
Bromomethane	11.7	1.0	µg/L	10.0		117	60-140			†
2-Butanone (MEK)	96.1	5.0	µg/L	100		96.1	70-130			†
n-Butylbenzene	9.92	0.50	µg/L	10.0		99.2	70-130			
sec-Butylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
tert-Butylbenzene	9.90	0.50	µg/L	10.0		99.0	70-130			
Carbon Tetrachloride	7.68	0.50	µg/L	10.0		76.8	70-130			
Chlorobenzene	9.56	0.50	µg/L	10.0		95.6	70-130			
Ethanol	85.0	50	µg/L	100		85.0	70-130			
Chlorodibromomethane	8.87	0.50	µg/L	10.0		88.7	70-130			
Chloroethane	9.68	0.50	µg/L	10.0		96.8	60-140			
Chloroform	9.58	0.50	µg/L	10.0		95.8	70-130			
Chloromethane	8.37	0.60	µg/L	10.0		83.7	60-140			†
2-Chlorotoluene	8.59	0.50	µg/L	10.0		85.9	70-130			
4-Chlorotoluene	9.09	0.50	µg/L	10.0		90.9	70-130			
1,2-Dibromoethane (EDB)	9.40	0.50	µg/L	10.0		94.0	70-130			
1,2-Dichlorobenzene	9.94	0.50	µg/L	10.0		99.4	70-130			
1,3-Dichlorobenzene	9.77	0.50	µg/L	10.0		97.7	70-130			
1,4-Dichlorobenzene	9.72	0.50	µg/L	10.0		97.2	70-130			
Dichlorodifluoromethane (Freon 12)	6.63	0.50	µg/L	10.0		66.3	60-140			†
1,1-Dichloroethane	9.04	0.50	µg/L	10.0		90.4	70-130			
1,2-Dichloroethane	7.25	0.50	µg/L	10.0		72.5	70-130			
1,1-Dichloroethylene	7.37	0.50	µg/L	10.0		73.7	70-130			
cis-1,2-Dichloroethylene	10.5	0.50	µg/L	10.0		105	70-130			
trans-1,2-Dichloroethylene	8.50	0.50	µg/L	10.0		85.0	70-130			
1,2-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
1,3-Dichloropropane	9.51	0.50	µg/L	10.0		95.1	70-130			
2,2-Dichloropropane	5.11	0.50	µg/L	10.0		51.1	* 70-130			L-04 †
1,1-Dichloropropene	8.98	0.50	µg/L	10.0		89.8	70-130			
cis-1,3-Dichloropropene	8.88	0.50	µg/L	10.0		88.8	70-130			
trans-1,3-Dichloropropene	8.07	0.50	µg/L	10.0		80.7	70-130			
Diisopropyl Ether (DIPE)	10.4	0.50	µg/L	10.0		104	70-130			
Ethylbenzene	9.22	0.50	µg/L	10.0		92.2	70-130			
2-Hexanone (MBK)	90.1	5.0	µg/L	100		90.1	70-130			†
Isopropylbenzene (Cumene)	8.89	0.50	µg/L	10.0		88.9	70-130			
p-Isopropyltoluene (p-Cymene)	9.77	0.50	µg/L	10.0		97.7	70-130			
Methyl tert-Butyl Ether (MTBE)	9.27	0.50	µg/L	10.0		92.7	70-130			
Methylene Chloride	9.00	5.0	µg/L	10.0		90.0	70-130			
4-Methyl-2-pentanone (MIBK)	96.8	5.0	µg/L	100		96.8	70-130			†
Naphthalene	8.38	0.50	µg/L	10.0		83.8	70-130			†
n-Propylbenzene	9.01	0.50	µg/L	10.0		90.1	70-130			
Styrene	9.63	0.50	µg/L	10.0		96.3	70-130			
1,1,2,2-Tetrachloroethane	11.5	0.50	µg/L	10.0		115	70-130			
Tetrachloroethylene	7.54	0.50	µg/L	10.0		75.4	70-130			
Toluene	8.79	0.50	µg/L	10.0		87.9	70-130			
1,2,3-Trichlorobenzene	7.11	0.50	µg/L	10.0		71.1	70-130			
1,2,4-Trichlorobenzene	7.51	0.50	µg/L	10.0		75.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204720 - SW-846 5030B

LCS (B204720-BS1)

Prepared: 06/01/18 Analyzed: 06/02/18

1,1,1-Trichloroethane	8.52	0.50	µg/L	10.0		85.2	70-130			
1,1,2-Trichloroethane	9.73	0.50	µg/L	10.0		97.3	70-130			
Trichloroethylene	9.32	0.50	µg/L	10.0		93.2	70-130			
Trichlorofluoromethane (Freon 11)	7.19	0.50	µg/L	10.0		71.9	70-130			
1,2,3-Trichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
1,2,4-Trimethylbenzene	10.1	0.50	µg/L	10.0		101	70-130			
1,3,5-Trimethylbenzene	8.85	0.50	µg/L	10.0		88.5	70-130			
Vinyl Acetate	76.2	5.0	µg/L	100		76.2	70-130			
Vinyl Chloride	8.73	0.50	µg/L	10.0		87.3	60-140			†
m+p Xylene	18.2	1.0	µg/L	20.0		91.2	70-130			
o-Xylene	9.38	0.50	µg/L	10.0		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.6		µg/L	25.0		94.3	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	23.2		µg/L	25.0		92.6	70-130			

LCS Dup (B204720-BSD1)

Prepared: 06/01/18 Analyzed: 06/02/18

Acetone	63.5	50	µg/L	100		63.5 *	70-130	0.941	25	L-04	†
Benzene	10.2	0.50	µg/L	10.0		102	70-130	1.28	25		
Bromobenzene	9.33	0.50	µg/L	10.0		93.3	70-130	1.28	25		
Bromochloromethane	10.8	0.50	µg/L	10.0		108	70-130	2.93	25		
Bromodichloromethane	9.11	0.50	µg/L	10.0		91.1	70-130	1.74	25		
Bromoform	8.67	0.50	µg/L	10.0		86.7	70-130	3.64	25		
Bromomethane	12.1	1.0	µg/L	10.0		121	60-140	3.37	25		†
2-Butanone (MEK)	95.5	5.0	µg/L	100		95.5	70-130	0.605	25		†
n-Butylbenzene	9.83	0.50	µg/L	10.0		98.3	70-130	0.911	25		
sec-Butylbenzene	9.90	0.50	µg/L	10.0		99.0	70-130	1.90	25		
tert-Butylbenzene	9.68	0.50	µg/L	10.0		96.8	70-130	2.25	25		
Carbon Tetrachloride	7.79	0.50	µg/L	10.0		77.9	70-130	1.42	25		
Chlorobenzene	9.74	0.50	µg/L	10.0		97.4	70-130	1.87	25		
Ethanol	96.8	50	µg/L	100		96.8	70-130	12.9	25		
Chlorodibromomethane	9.09	0.50	µg/L	10.0		90.9	70-130	2.45	25		
Chloroethane	9.00	0.50	µg/L	10.0		90.0	60-140	7.28	25		
Chloroform	9.52	0.50	µg/L	10.0		95.2	70-130	0.628	25		
Chloromethane	8.32	0.60	µg/L	10.0		83.2	60-140	0.599	25		†
2-Chlorotoluene	8.57	0.50	µg/L	10.0		85.7	70-130	0.233	25		
4-Chlorotoluene	9.25	0.50	µg/L	10.0		92.5	70-130	1.74	25		
1,2-Dibromoethane (EDB)	9.27	0.50	µg/L	10.0		92.7	70-130	1.39	25		
1,2-Dichlorobenzene	9.88	0.50	µg/L	10.0		98.8	70-130	0.605	25		
1,3-Dichlorobenzene	10.1	0.50	µg/L	10.0		101	70-130	3.02	25		
1,4-Dichlorobenzene	9.79	0.50	µg/L	10.0		97.9	70-130	0.718	25		
Dichlorodifluoromethane (Freon 12)	6.10	0.50	µg/L	10.0		61.0	60-140	8.33	25		†
1,1-Dichloroethane	8.95	0.50	µg/L	10.0		89.5	70-130	1.00	25		
1,2-Dichloroethane	7.26	0.50	µg/L	10.0		72.6	70-130	0.138	25		
1,1-Dichloroethylene	7.10	0.50	µg/L	10.0		71.0	70-130	3.73	25		
cis-1,2-Dichloroethylene	10.4	0.50	µg/L	10.0		104	70-130	1.25	25		
trans-1,2-Dichloroethylene	8.36	0.50	µg/L	10.0		83.6	70-130	1.66	25		
1,2-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130	0.880	25		
1,3-Dichloropropane	9.44	0.50	µg/L	10.0		94.4	70-130	0.739	25		
2,2-Dichloropropane	5.38	0.50	µg/L	10.0		53.8 *	70-130	5.15	25	L-04	†
1,1-Dichloropropene	8.92	0.50	µg/L	10.0		89.2	70-130	0.670	25		
cis-1,3-Dichloropropene	8.58	0.50	µg/L	10.0		85.8	70-130	3.44	25		
trans-1,3-Dichloropropene	7.88	0.50	µg/L	10.0		78.8	70-130	2.38	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204720 - SW-846 5030B										
LCS Dup (B204720-BSD1)										
					Prepared: 06/01/18 Analyzed: 06/02/18					
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0		107	70-130	2.66	25	
Ethylbenzene	9.03	0.50	µg/L	10.0		90.3	70-130	2.08	25	
2-Hexanone (MBK)	91.6	5.0	µg/L	100		91.6	70-130	1.67	25	†
Isopropylbenzene (Cumene)	8.80	0.50	µg/L	10.0		88.0	70-130	1.02	25	
p-Isopropyltoluene (p-Cymene)	9.76	0.50	µg/L	10.0		97.6	70-130	0.102	25	
Methyl tert-Butyl Ether (MTBE)	9.71	0.50	µg/L	10.0		97.1	70-130	4.64	25	
Methylene Chloride	8.99	5.0	µg/L	10.0		89.9	70-130	0.111	25	
4-Methyl-2-pentanone (MIBK)	96.8	5.0	µg/L	100		96.8	70-130	0.0620	25	†
Naphthalene	8.90	0.50	µg/L	10.0		89.0	70-130	6.02	25	†
n-Propylbenzene	8.97	0.50	µg/L	10.0		89.7	70-130	0.445	25	
Styrene	9.37	0.50	µg/L	10.0		93.7	70-130	2.74	25	
1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117	70-130	1.81	25	
Tetrachloroethylene	7.32	0.50	µg/L	10.0		73.2	70-130	2.96	25	
Toluene	8.69	0.50	µg/L	10.0		86.9	70-130	1.14	25	
1,2,3-Trichlorobenzene	7.57	0.50	µg/L	10.0		75.7	70-130	6.27	25	
1,2,4-Trichlorobenzene	7.64	0.50	µg/L	10.0		76.4	70-130	1.72	25	
1,1,1-Trichloroethane	8.49	0.50	µg/L	10.0		84.9	70-130	0.353	25	
1,1,2-Trichloroethane	9.77	0.50	µg/L	10.0		97.7	70-130	0.410	25	
Trichloroethylene	8.94	0.50	µg/L	10.0		89.4	70-130	4.16	25	
Trichlorofluoromethane (Freon 11)	7.09	0.50	µg/L	10.0		70.9	70-130	1.40	25	
1,2,3-Trichloropropane	10.8	0.50	µg/L	10.0		108	70-130	0.555	25	
1,2,4-Trimethylbenzene	9.88	0.50	µg/L	10.0		98.8	70-130	2.40	25	
1,3,5-Trimethylbenzene	8.85	0.50	µg/L	10.0		88.5	70-130	0.00	25	
Vinyl Acetate	87.0	5.0	µg/L	100		87.0	70-130	13.2	25	
Vinyl Chloride	8.50	0.50	µg/L	10.0		85.0	60-140	2.67	25	†
m+p Xylene	18.2	1.0	µg/L	20.0		90.8	70-130	0.440	25	
o-Xylene	9.43	0.50	µg/L	10.0		94.3	70-130	0.532	25	
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.0		95.6	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.0		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	23.4		µg/L	25.0		93.5	70-130			

Batch B204809 - SW-846 5030B

Blank (B204809-BLK1)

Prepared: 06/03/18 Analyzed: 06/04/18

Acetone	ND	50	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromochloromethane	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	0.50	µg/L							
sec-Butylbenzene	ND	0.50	µg/L							
tert-Butylbenzene	ND	0.50	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Ethanol	ND	50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204809 - SW-846 5030B

Blank (B204809-BLK1)

Prepared: 06/03/18 Analyzed: 06/04/18

4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	0.50	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	0.50	µg/L							
n-Propylbenzene	ND	0.50	µg/L							
Styrene	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	0.50	µg/L							
Trichlorofluoromethane (Freon 11)	ND	0.50	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Acetate	ND	5.0	µg/L							
Vinyl Chloride	ND	0.50	µg/L							
m+p Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.1		µg/L	25.0		96.5	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	23.1		µg/L	25.0		92.5	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204809 - SW-846 5030B

LCS (B204809-BS1)

Prepared: 06/03/18 Analyzed: 06/04/18

Acetone	72.1	50	µg/L	100		72.1	70-130			†
Benzene	11.5	0.50	µg/L	10.0		115	70-130			
Bromobenzene	9.53	0.50	µg/L	10.0		95.3	70-130			
Bromochloromethane	11.7	0.50	µg/L	10.0		117	70-130			
Bromodichloromethane	9.94	0.50	µg/L	10.0		99.4	70-130			
Bromoform	8.73	0.50	µg/L	10.0		87.3	70-130			
Bromomethane	11.8	1.0	µg/L	10.0		118	60-140			†
2-Butanone (MEK)	99.2	5.0	µg/L	100		99.2	70-130			†
n-Butylbenzene	11.3	0.50	µg/L	10.0		113	70-130			
sec-Butylbenzene	11.4	0.50	µg/L	10.0		114	70-130			
tert-Butylbenzene	10.8	0.50	µg/L	10.0		108	70-130			
Carbon Tetrachloride	10.3	0.50	µg/L	10.0		103	70-130			
Chlorobenzene	10.2	0.50	µg/L	10.0		102	70-130			
Ethanol	95.0	50	µg/L	100		95.0	70-130			
Chlorodibromomethane	9.77	0.50	µg/L	10.0		97.7	70-130			
Chloroethane	11.3	0.50	µg/L	10.0		113	60-140			
Chloroform	10.4	0.50	µg/L	10.0		104	70-130			
Chloromethane	9.24	0.60	µg/L	10.0		92.4	60-140			†
2-Chlorotoluene	9.43	0.50	µg/L	10.0		94.3	70-130			
4-Chlorotoluene	9.57	0.50	µg/L	10.0		95.7	70-130			
1,2-Dibromoethane (EDB)	9.98	0.50	µg/L	10.0		99.8	70-130			
1,2-Dichlorobenzene	10.4	0.50	µg/L	10.0		104	70-130			
1,3-Dichlorobenzene	10.2	0.50	µg/L	10.0		102	70-130			
1,4-Dichlorobenzene	9.96	0.50	µg/L	10.0		99.6	70-130			
Dichlorodifluoromethane (Freon 12)	10.8	0.50	µg/L	10.0		108	60-140			†
1,1-Dichloroethane	9.73	0.50	µg/L	10.0		97.3	70-130			
1,2-Dichloroethane	7.95	0.50	µg/L	10.0		79.5	70-130			
1,1-Dichloroethylene	9.96	0.50	µg/L	10.0		99.6	70-130			
cis-1,2-Dichloroethylene	11.2	0.50	µg/L	10.0		112	70-130			
trans-1,2-Dichloroethylene	9.30	0.50	µg/L	10.0		93.0	70-130			
1,2-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
2,2-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			†
1,1-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	9.27	0.50	µg/L	10.0		92.7	70-130			
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106	70-130			
Ethylbenzene	10.0	0.50	µg/L	10.0		100	70-130			
2-Hexanone (MBK)	90.5	5.0	µg/L	100		90.5	70-130			†
Isopropylbenzene (Cumene)	10.1	0.50	µg/L	10.0		101	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	0.50	µg/L	10.0		108	70-130			
Methyl tert-Butyl Ether (MTBE)	9.40	0.50	µg/L	10.0		94.0	70-130			
Methylene Chloride	10.0	5.0	µg/L	10.0		100	70-130			
4-Methyl-2-pentanone (MIBK)	99.4	5.0	µg/L	100		99.4	70-130			†
Naphthalene	7.07	0.50	µg/L	10.0		70.7	70-130			†
n-Propylbenzene	9.97	0.50	µg/L	10.0		99.7	70-130			
Styrene	9.56	0.50	µg/L	10.0		95.6	70-130			
1,1,2,2-Tetrachloroethane	11.9	0.50	µg/L	10.0		119	70-130			
Tetrachloroethylene	9.23	0.50	µg/L	10.0		92.3	70-130			
Toluene	9.83	0.50	µg/L	10.0		98.3	70-130			
1,2,3-Trichlorobenzene	6.45	0.50	µg/L	10.0		64.5 *	70-130			
1,2,4-Trichlorobenzene	7.29	0.50	µg/L	10.0		72.9	70-130			

L-07

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204809 - SW-846 5030B

LCS (B204809-BS1)

Prepared: 06/03/18 Analyzed: 06/04/18

1,1,1-Trichloroethane	10.6	0.50	µg/L	10.0		106	70-130			
1,1,2-Trichloroethane	10.4	0.50	µg/L	10.0		104	70-130			
Trichloroethylene	10.4	0.50	µg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	11.0	0.50	µg/L	10.0		110	70-130			
1,2,3-Trichloropropane	10.5	0.50	µg/L	10.0		105	70-130			
1,2,4-Trimethylbenzene	10.2	0.50	µg/L	10.0		102	70-130			
1,3,5-Trimethylbenzene	9.53	0.50	µg/L	10.0		95.3	70-130			
Vinyl Acetate	92.6	5.0	µg/L	100		92.6	70-130			
Vinyl Chloride	11.8	0.50	µg/L	10.0		118	60-140			†
m+p Xylene	20.0	1.0	µg/L	20.0		99.8	70-130			
o-Xylene	9.99	0.50	µg/L	10.0		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	25.3		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		µg/L	25.0		94.0	70-130			

LCS Dup (B204809-BS1)

Prepared: 06/03/18 Analyzed: 06/04/18

Acetone	72.2	50	µg/L	100		72.2	70-130	0.0416	25	†
Benzene	11.2	0.50	µg/L	10.0		112	70-130	2.73	25	
Bromobenzene	9.51	0.50	µg/L	10.0		95.1	70-130	0.210	25	
Bromochloromethane	11.6	0.50	µg/L	10.0		116	70-130	0.858	25	
Bromodichloromethane	9.68	0.50	µg/L	10.0		96.8	70-130	2.65	25	
Bromoform	8.75	0.50	µg/L	10.0		87.5	70-130	0.229	25	
Bromomethane	11.6	1.0	µg/L	10.0		116	60-140	2.22	25	†
2-Butanone (MEK)	101	5.0	µg/L	100		101	70-130	1.39	25	†
n-Butylbenzene	11.3	0.50	µg/L	10.0		113	70-130	0.177	25	
sec-Butylbenzene	11.2	0.50	µg/L	10.0		112	70-130	1.77	25	
tert-Butylbenzene	10.6	0.50	µg/L	10.0		106	70-130	1.31	25	
Carbon Tetrachloride	10.2	0.50	µg/L	10.0		102	70-130	0.779	25	
Chlorobenzene	9.78	0.50	µg/L	10.0		97.8	70-130	4.11	25	
Ethanol	95.3	50	µg/L	100		95.3	70-130	0.305	25	
Chlorodibromomethane	9.28	0.50	µg/L	10.0		92.8	70-130	5.14	25	
Chloroethane	10.9	0.50	µg/L	10.0		109	60-140	3.24	25	
Chloroform	10.3	0.50	µg/L	10.0		103	70-130	0.677	25	
Chloromethane	9.60	0.60	µg/L	10.0		96.0	60-140	3.82	25	†
2-Chlorotoluene	8.98	0.50	µg/L	10.0		89.8	70-130	4.89	25	
4-Chlorotoluene	9.34	0.50	µg/L	10.0		93.4	70-130	2.43	25	
1,2-Dibromoethane (EDB)	9.83	0.50	µg/L	10.0		98.3	70-130	1.51	25	
1,2-Dichlorobenzene	9.99	0.50	µg/L	10.0		99.9	70-130	3.83	25	
1,3-Dichlorobenzene	10.4	0.50	µg/L	10.0		104	70-130	2.43	25	
1,4-Dichlorobenzene	10.0	0.50	µg/L	10.0		100	70-130	0.401	25	
Dichlorodifluoromethane (Freon 12)	10.7	0.50	µg/L	10.0		107	60-140	0.651	25	†
1,1-Dichloroethane	10.5	0.50	µg/L	10.0		105	70-130	7.90	25	
1,2-Dichloroethane	7.56	0.50	µg/L	10.0		75.6	70-130	5.03	25	
1,1-Dichloroethylene	9.97	0.50	µg/L	10.0		99.7	70-130	0.100	25	
cis-1,2-Dichloroethylene	11.3	0.50	µg/L	10.0		113	70-130	0.712	25	
trans-1,2-Dichloroethylene	9.95	0.50	µg/L	10.0		99.5	70-130	6.75	25	
1,2-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	6.80	25	
1,3-Dichloropropane	9.77	0.50	µg/L	10.0		97.7	70-130	3.22	25	
2,2-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130	0.492	25	†
1,1-Dichloropropene	11.5	0.50	µg/L	10.0		115	70-130	3.01	25	
cis-1,3-Dichloropropene	9.87	0.50	µg/L	10.0		98.7	70-130	3.97	25	
trans-1,3-Dichloropropene	8.84	0.50	µg/L	10.0		88.4	70-130	4.75	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204809 - SW-846 5030B										
LCS Dup (B204809-BSD1)										
					Prepared: 06/03/18 Analyzed: 06/04/18					
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.0		108	70-130	1.86	25	
Ethylbenzene	9.73	0.50	µg/L	10.0		97.3	70-130	3.24	25	
2-Hexanone (MBK)	94.0	5.0	µg/L	100		94.0	70-130	3.77	25	†
Isopropylbenzene (Cumene)	9.61	0.50	µg/L	10.0		96.1	70-130	4.67	25	
p-Isopropyltoluene (p-Cymene)	10.8	0.50	µg/L	10.0		108	70-130	0.278	25	
Methyl tert-Butyl Ether (MTBE)	10.2	0.50	µg/L	10.0		102	70-130	8.55	25	
Methylene Chloride	9.60	5.0	µg/L	10.0		96.0	70-130	4.38	25	
4-Methyl-2-pentanone (MIBK)	101	5.0	µg/L	100		101	70-130	1.56	25	†
Naphthalene	8.38	0.50	µg/L	10.0		83.8	70-130	17.0	25	†
n-Propylbenzene	9.68	0.50	µg/L	10.0		96.8	70-130	2.95	25	
Styrene	9.59	0.50	µg/L	10.0		95.9	70-130	0.313	25	
1,1,2,2-Tetrachloroethane	11.9	0.50	µg/L	10.0		119	70-130	0.672	25	
Tetrachloroethylene	8.81	0.50	µg/L	10.0		88.1	70-130	4.66	25	
Toluene	9.45	0.50	µg/L	10.0		94.5	70-130	3.94	25	
1,2,3-Trichlorobenzene	7.68	0.50	µg/L	10.0		76.8	70-130	17.4	25	
1,2,4-Trichlorobenzene	7.86	0.50	µg/L	10.0		78.6	70-130	7.52	25	
1,1,1-Trichloroethane	10.4	0.50	µg/L	10.0		104	70-130	1.71	25	
1,1,2-Trichloroethane	10.0	0.50	µg/L	10.0		100	70-130	4.01	25	
Trichloroethylene	10.1	0.50	µg/L	10.0		101	70-130	3.23	25	
Trichlorofluoromethane (Freon 11)	10.6	0.50	µg/L	10.0		106	70-130	3.61	25	
1,2,3-Trichloropropane	10.8	0.50	µg/L	10.0		108	70-130	3.00	25	
1,2,4-Trimethylbenzene	10.2	0.50	µg/L	10.0		102	70-130	0.196	25	
1,3,5-Trimethylbenzene	9.40	0.50	µg/L	10.0		94.0	70-130	1.37	25	
Vinyl Acetate	94.9	5.0	µg/L	100		94.9	70-130	2.43	25	
Vinyl Chloride	11.7	0.50	µg/L	10.0		117	60-140	0.683	25	†
m+p Xylene	19.3	1.0	µg/L	20.0		96.4	70-130	3.42	25	
o-Xylene	9.77	0.50	µg/L	10.0		97.7	70-130	2.23	25	
Surrogate: 1,2-Dichloroethane-d4	25.0		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	23.3		µg/L	25.0		93.1	70-130			

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204406 - MA VPH

Blank (B204406-BLK1)

Prepared & Analyzed: 05/29/18

Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Butylcyclohexane	ND	0.050	mg/Kg wet							
Decane	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
2-Methylpentane	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.50	mg/Kg wet							
Nonane	ND	0.050	mg/Kg wet							
Pentane	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	34.2		µg/L	40.0		85.4	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	30.5		µg/L	40.0		76.2	70-130			

LCS (B204406-BS1)

Prepared & Analyzed: 05/29/18

Benzene	0.0429	0.0010	mg/Kg wet	0.0500		85.7	70-130			
Butylcyclohexane	0.0565	0.0010	mg/Kg wet	0.0500		113	70-130			
Decane	0.0486	0.0010	mg/Kg wet	0.0500		97.3	70-130			
Ethylbenzene	0.0420	0.0010	mg/Kg wet	0.0500		84.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0492	0.0010	mg/Kg wet	0.0500		98.3	70-130			
2-Methylpentane	0.0436	0.0010	mg/Kg wet	0.0500		87.1	70-130			
Naphthalene	0.0404	0.010	mg/Kg wet	0.0500		80.8	70-130			
Nonane	0.0556	0.0010	mg/Kg wet	0.0500		111	30-130			
Pentane	0.0443	0.0010	mg/Kg wet	0.0500		88.6	70-130			
Toluene	0.0428	0.0010	mg/Kg wet	0.0500		85.5	70-130			
1,2,4-Trimethylbenzene	0.0402	0.0010	mg/Kg wet	0.0500		80.4	70-130			
2,2,4-Trimethylpentane	0.0388	0.0010	mg/Kg wet	0.0500		77.6	70-130			
m+p Xylene	0.0836	0.0020	mg/Kg wet	0.100		83.6	70-130			
o-Xylene	0.0412	0.0010	mg/Kg wet	0.0500		82.4	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	33.7		µg/L	40.0		84.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	30.9		µg/L	40.0		77.2	70-130			

LCS Dup (B204406-BSD1)

Prepared & Analyzed: 05/29/18

Benzene	0.0437	0.0010	mg/Kg wet	0.0500		87.3	70-130	1.86	25	
Butylcyclohexane	0.0561	0.0010	mg/Kg wet	0.0500		112	70-130	0.663	25	
Decane	0.0487	0.0010	mg/Kg wet	0.0500		97.4	70-130	0.0904	25	
Ethylbenzene	0.0428	0.0010	mg/Kg wet	0.0500		85.6	70-130	1.84	25	
Methyl tert-Butyl Ether (MTBE)	0.0490	0.0010	mg/Kg wet	0.0500		98.1	70-130	0.271	25	
2-Methylpentane	0.0443	0.0010	mg/Kg wet	0.0500		88.5	70-130	1.61	25	
Naphthalene	0.0394	0.010	mg/Kg wet	0.0500		78.7	70-130	2.63	25	
Nonane	0.0556	0.0010	mg/Kg wet	0.0500		111	30-130	0.0539	25	
Pentane	0.0449	0.0010	mg/Kg wet	0.0500		89.8	70-130	1.28	25	
Toluene	0.0437	0.0010	mg/Kg wet	0.0500		87.4	70-130	2.15	25	
1,2,4-Trimethylbenzene	0.0408	0.0010	mg/Kg wet	0.0500		81.7	70-130	1.55	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204406 - MA VPH

LCS Dup (B204406-BSD1)

Prepared & Analyzed: 05/29/18

2,2,4-Trimethylpentane	0.0392	0.0010	mg/Kg wet	0.0500		78.4	70-130	1.11	25	
m+p Xylene	0.0854	0.0020	mg/Kg wet	0.100		85.4	70-130	2.12	25	
o-Xylene	0.0416	0.0010	mg/Kg wet	0.0500		83.2	70-130	0.947	25	
Surrogate: 2,5-Dibromotoluene (FID)	33.6		µg/L	40.0		84.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	30.0		µg/L	40.0		74.9	70-130			

Batch B204608 - MA VPH

Blank (B204608-BLK1)

Prepared & Analyzed: 05/31/18

Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	38.7		µg/L	40.0		96.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	37.6		µg/L	40.0		94.0	70-130			

LCS (B204608-BS1)

Prepared & Analyzed: 05/31/18

Benzene	103	1.0	µg/L	100		103	70-130			
Butylcyclohexane	84.4	1.0	µg/L	100		84.4	70-130			
Decane	87.0	1.0	µg/L	100		87.0	70-130			
Ethylbenzene	104	1.0	µg/L	100		104	70-130			
Methyl tert-Butyl Ether (MTBE)	104	1.0	µg/L	100		104	70-130			
2-Methylpentane	103	1.0	µg/L	100		103	70-130			
Naphthalene	100	5.0	µg/L	100		100	70-130			
Nonane	82.9	1.0	µg/L	100		82.9	70-130			
Pentane	103	1.0	µg/L	100		103	70-130			
Toluene	104	1.0	µg/L	100		104	70-130			
1,2,4-Trimethylbenzene	104	1.0	µg/L	100		104	70-130			
2,2,4-Trimethylpentane	95.9	1.0	µg/L	100		95.9	70-130			
m+p Xylene	209	2.0	µg/L	200		105	70-130			
o-Xylene	104	1.0	µg/L	100		104	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	41.0		µg/L	40.0		103	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	38.6		µg/L	40.0		96.5	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204608 - MA VPH

LCS Dup (B204608-BSD1)

Prepared & Analyzed: 05/31/18

Benzene	103	1.0	µg/L	100	103	103	70-130	0.452	25	
Butylcyclohexane	83.2	1.0	µg/L	100	83.2	83.2	70-130	1.42	25	
Decane	87.0	1.0	µg/L	100	87.0	87.0	70-130	0.0115	25	
Ethylbenzene	103	1.0	µg/L	100	103	103	70-130	0.712	25	
Methyl tert-Butyl Ether (MTBE)	102	1.0	µg/L	100	102	102	70-130	1.44	25	
2-Methylpentane	101	1.0	µg/L	100	101	101	70-130	2.64	25	
Naphthalene	98.0	5.0	µg/L	100	98.0	98.0	70-130	2.32	25	
Nonane	82.5	1.0	µg/L	100	82.5	82.5	70-130	0.457	25	
Pentane	101	1.0	µg/L	100	101	101	70-130	2.09	25	
Toluene	103	1.0	µg/L	100	103	103	70-130	0.540	25	
1,2,4-Trimethylbenzene	102	1.0	µg/L	100	102	102	70-130	1.48	25	
2,2,4-Trimethylpentane	93.8	1.0	µg/L	100	93.8	93.8	70-130	2.23	25	
m+p Xylene	208	2.0	µg/L	200	104	104	70-130	0.847	25	
o-Xylene	103	1.0	µg/L	100	103	103	70-130	0.864	25	
Surrogate: 2,5-Dibromotoluene (FID)	37.8		µg/L	40.0		94.4	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	37.1		µg/L	40.0		92.8	70-130			

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FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
 - † Wide recovery limits established for difficult compound.
 - ‡ Wide RPD limits established for difficult compound.
 - # Data exceeded client recommended or regulatory level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
No results have been blank subtracted unless specified in the case narrative section.
- J Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
 - L-02 Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
 - L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
 - L-07 Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
 - O-01 Soil/methanol ratio does not meet method specifications. Excess amount of soil. Sample was completely covered with methanol, but with less than the method-specified amount.
 - R-05 Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
 - V-34 Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-VPH-Feb 2018 Rev 2.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
MADEP-VPH-Feb 2018 Rev 2.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
SM21-22 6200B in Water	
Acetone	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Ethanol	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 6200B in Water	
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Acetate	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8260B in Soil	
Acetone	NC
Acrylonitrile	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260B in Soil</i>	
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Acetate	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

JEFFREY

Company Name: **S&M**
Address: **3201 Spring Forest Rd**
Phone: **919-872-2600**
Project Name: **MAN'S STORE**
Project Location: **PITTSBORO, NC**
Project Number: **41305-18-110**
Project Manager: **MIKE PFEIFFER**
Con-Test Quote Name/Number:
Invoice Recipient:

Sampled By: **Jim Perle**

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
2	SS-1	5/24/18 0935	5/25/18 1335	V	V	S	U
3	MW-1	5/25/18 1335	5/25/18 1335		V	GW	U
3	WSW-1	5/25/18 1155	5/25/18 1205		V	DV	U

ANALYSIS REQUESTED

Requested Turnaround Time:
 7-Day 10-Day
 Due Date:
 Rush Approval Required:
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery:
 Format: PDF EXCEL
 Other:
 CLP Like Data Pkg Required:
 Email To:
 Fax To #:

Comments: **WSW-1: 6200B only**

Run VPH on sample -02 per Mike P.
-KKM 5/30/18

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) **[Signature]** Date/Time: **5/25/18 1500**
 Received by: (signature) **[Signature]** Date/Time: **5/25/18 1100**
 Relinquished by: (signature) **[Signature]** Date/Time: **5/25/18 1600**
 Received by: (signature) **[Signature]** Date/Time: **5/26/18 1027**
 Relinquished by: (signature) **[Signature]** Date/Time:
 Received by: (signature) **[Signature]** Date/Time:

Program Information
 DSCA UST/Trust Fund
 SWS Landfill REC
 IHSB Orphaned Landfill
 State Lead
 Other:

Project Entity
 Government Municipality
 Federal Brownfield
 City School
 Other: Chromatogram AIHA-LAP, LLC
 PCB ONLY Soxhlet Non Soxhlet



FedEx[®] Tracking

772328406237

Ship date:
Fri 5/25/2018

Raleigh, NC US



Delivered

Signed for by: *H.BECCA*

Actual delivery:
Sat 5/26/2018 10:27 am

EAST LONGMEADOW, MA US

2 Piece shipment

Travel History

▲ Date/Time	Activity	Location
■ 5/26/2018 - Saturday		
10:27 am	Delivered	EAST LONGMEADOW MA
8:45 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:58 am	At local FedEx facility	WINDSOR LOCKS, CT
6:41 am	At destination sort facility	EAST GRANBY, CT
3:28 am	Departed FedEx location	MEMPHIS, TN
■ 5/25/2018 - Friday		
10:27 pm	Arrived at FedEx location	MEMPHIS, TN
8:49 pm	Left FedEx origin facility	DURHAM, NC
3:31 pm	Picked up	RALEIGH, NC
2:14 pm	Shipment information sent to FedEx	

Shipment Facts

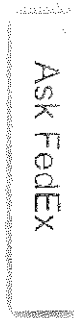
Tracking Number	772328406237	Service	FedEx Priority Overnight
Master tracking number	772328407093	Weight	15 lbs / 6.8 kgs
Delivered To	Shipping/Receiving	Total pieces	2
Total shipment weight	15 lbs / 6.8 kgs	Terms	Third Party
Shipper reference	80	Packaging	Your Packaging
Special handling section	For Saturday Delivery	Standard transit	5/26/2018 by 12:00 pm

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con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client SAME

Received By KAP Date 5/26/18 Time 1027

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.9
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? F MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? T
 Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	9	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-	2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-	2	Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

APPENDIX I

**REGULATORY RECORDS
DOCUMENTATION**

Proposed DG Store

Not Reported

Pittsboro, NC 27312

Inquiry Number: 7739974.2s

August 19, 2024

The EDR Radius Map™ Report with GeoCheck®



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

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NOT REPORTED
PITTSBORO, NC 27312

COORDINATES

Latitude (North): 35.8048760 - 35° 48' 17.55"
Longitude (West): 79.2501620 - 79° 15' 0.58"
Universal Tranverse Mercator: Zone 17
UTM X (Meters): 658107.9
UTM Y (Meters): 3963519.5
Elevation: 563 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 50021414 SILK HOPE, NC
Version Date: 2022

East Map: 50021258 BYNUM, NC
Version Date: 2022

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20200711
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
NOT REPORTED
PITTSBORO, NC 27312

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	MANN STORE	7070 NC 87 N	UST FINDER RELEASE	Lower	82, 0.016, South
A2	MANN STORE	7070 NC 87 N	LUST	Lower	82, 0.016, South

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

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

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

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

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

NC HSDS..... Hazardous Substance Disposal Site

Lists of state- and tribal hazardous waste facilities

SHWS..... Inactive Hazardous Sites Inventory

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... List of Solid Waste Facilities
DEBRIS..... Solid Waste Active Disaster Debris Sites Listing
OLI..... Old Landfill Inventory
LCID..... Land-Clearing and Inert Debris (LCID) Landfill Notifications

Lists of state and tribal leaking storage tanks

LAST..... Leaking Aboveground Storage Tanks
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
LUST TRUST..... State Trust Fund Database

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Petroleum Underground Storage Tank Database
AST..... AST Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... No Further Action Sites With Land Use Restrictions Monitoring

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Responsible Party Voluntary Action Sites

Lists of state and tribal brownfield sites

BROWNFIELDS..... Brownfields Projects Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Center Listing

EXECUTIVE SUMMARY

HIST LF.....	Solid Waste Facility Listing
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
IHS OPEN DUMPS.....	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL.....	Delisted National Clandestine Laboratory Register
US CDL.....	National Clandestine Laboratory Register

Local Land Records

LIENS 2.....	CERCLA Lien Information
--------------	-------------------------

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
SPILLS.....	Spills Incident Listing
IMD.....	Incident Management Database
SPILLS 90.....	SPILLS 90 data from FirstSearch
SPILLS 80.....	SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR.....	RCRA - Non Generators / No Longer Regulated
FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites

EXECUTIVE SUMMARY

US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
MINES MRDS.....	Mineral Resources Data System
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
PFAS NPL.....	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES.....	Federal Sites PFAS Information
PFAS TRIS.....	List of PFAS Added to the TRI
PFAS TSCA.....	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST.....	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR.....	PFAS Contamination Site Location Listing
PFAS WQP.....	Ambient Environmental Sampling for PFAS
PFAS PROJECT.....	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS NPDES.....	Clean Water Act Discharge Monitoring Information
PFAS ECHO.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT.....	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC.....	Aqueous Foam Related Incidents Listing
BIOSOLIDS.....	ICIS-NPDES Biosolids Facility Data
UST FINDER.....	UST Finder Database
E MANIFEST.....	Hazardous Waste Electronic Manifest System
PFAS.....	PFAS Contamination Site Listing
AIRS.....	Air Quality Permit Listing
ASBESTOS.....	Asbestos Permits & Notifications Information
CCB.....	Coal Ash Structural Fills (CCB) Listing
COAL ASH.....	Coal Ash Disposal Sites
DRYCLEANERS.....	Drycleaning Sites
Financial Assurance.....	Financial Assurance Information Listing
NPDES.....	NPDES Facility Location Listing
PCSRP.....	Petroleum-Contaminated Soil Remediation Permits
SEPT HAULERS.....	Permitted Septage Haulers Listing
UIC.....	Underground Injection Wells Listing
AOP.....	Animal Operation Permits Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

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

STANDARD ENVIRONMENTAL RECORDS

Lists of state and tribal leaking storage tanks

LUST: The Leaking Underground Storage Tank Incidents Management Database contains an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environment, & Natural Resources' Incidents by Address.

A review of the LUST list, as provided by EDR, and dated 04/26/2024 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MANN STORE Incident Phase: RE Incident Number: 6281 Current Status: File Located in House	7070 NC 87 N	S 0 - 1/8 (0.016 mi.)	A2	8

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

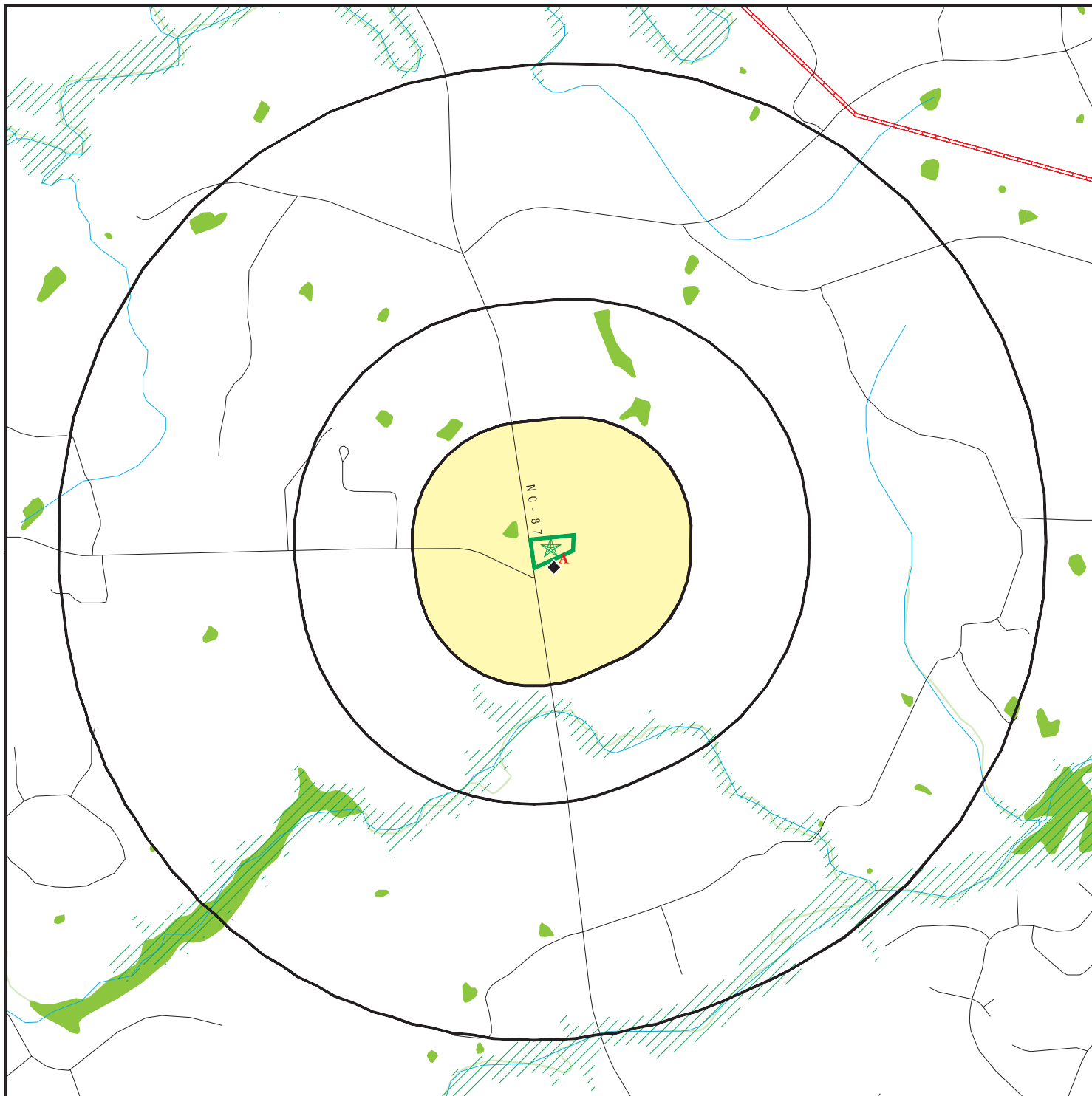
A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER RELEASE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MANN STORE	7070 NC 87 N	S 0 - 1/8 (0.016 mi.)	A1	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 7739974.2S



Target Property

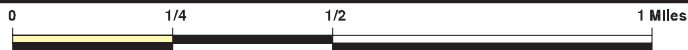
Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites



Indian Reservations BIA

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Hazardous Substance Disposal Sites

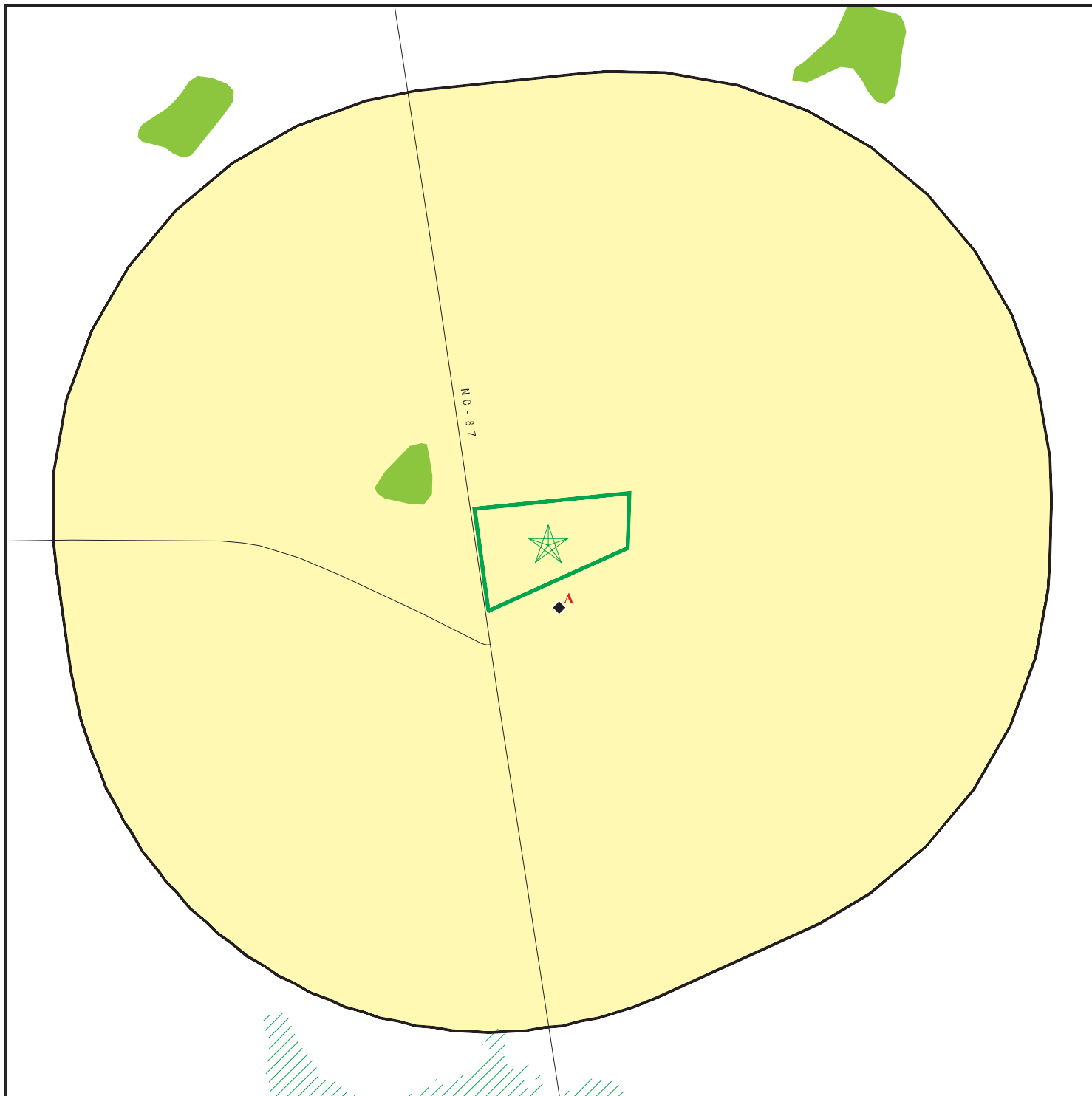









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

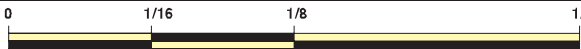






SITE NAME: Proposed DG Store
 ADDRESS: Not Reported
 Pittsboro NC 27312
 LAT/LONG: 35.804876 / 79.250162

CLIENT: Proctor Environmental Services, Inc.
 CONTACT: Tom Proctor
 INQUIRY #: 7739974.2s
 DATE: August 19, 2024 7:06 pm

DETAIL MAP - 7739974.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  0 1/16 1/8 1/4 Miles
-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Hazardous Substance Disposal Sites



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

SITE NAME: Proposed DG Store
 ADDRESS: Not Reported
 Pittsboro NC 27312
 LAT/LONG: 35.804876 / 79.250162

CLIENT: Proctor Environmental Services, Inc.
 CONTACT: Tom Proctor
 INQUIRY #: 7739974.2s
 DATE: August 19, 2024 7:09 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Lists of Federal NPL (Superfund) sites</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>Lists of state- and tribal (Superfund) equivalent sites</i>								
NC HSDS	1.000		0	0	0	0	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEBRIS	0.500		0	0	0	NR	NR	0
OLI	0.500		0	0	0	NR	NR	0
LCID	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		1	0	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	0.001		0	NR	NR	NR	NR	0
IMD	0.500		0	0	0	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
SPILLS 80	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		1	0	0	NR	NR	1
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
CCB	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PCSRP	0.500		0	0	0	NR	NR	0
SEPT HAULERS	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
AOP	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals -- 0 2 0 0 0 0 2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A1
South
< 1/8
0.016 mi.
82 ft.

MANN STORE
7070 NC 87 N
PITTSBORO, NC 0

UST FINDER RELEASE **1029018114**
N/A

Site 1 of 2 in cluster A

Relative:
Lower

UST FINDER RELEASE:

Actual:
555 ft.

Object ID: 282378
 Facility ID: Not reported
 Lust ID: NC20356
 Name: MANN STORE
 Address: 7070 NC 87 N
 City,State,Zip: PITTSBORO, NC 0
 Address Match Type: Not reported
 Reported Date: 1991/01/07 15:59:59+00
 Status: Open
 Substance: Not reported
 Population within 1500ft: 23
 Domestic Wells within 1500ft: 8
 Land Use: Non-Developed
 Within SPA: Yes
 SPA PWS Facility ID: NC0319015_39260
 SPA Water Type: SW - SurRELEASEe Water
 SPA Facility Type: IN - Intake
 SPA HUC12: 30300020702
 Within WHPA: No
 WHPA PWS Facility ID: Not reported
 WHPA Water Type: Not reported
 WHPA Facility Type: Not reported
 WHPA HUC12: Not reported
 Within 100yr Floodplain: No
 Tribe: Not reported
 EPA Region: 4
 NFA Letter 1: Not reported
 NFA Letter 2: Not reported
 NFA Letter 3: Not reported
 NFA Letter 4: Not reported
 Closed With Residual Contaminate: Not reported
 Coordinate Source: State
 X Coord: -79.25071999999999
 Y Coord: 35.80410000000001
 Latitude: 35.80409999999999
 Longitude: -79.25072

A2
South
< 1/8
0.016 mi.
82 ft.

MANN STORE
7070 NC 87 N
PITTSBORO, NC 27312

LUST **S122513844**
N/A

Site 2 of 2 in cluster A

Relative:
Lower

LUST:

Actual:
555 ft.

Name: MANN STORE
 Address: 7070 NC 87 N
 City,State,Zip: PITTSBORO, NC 27312-
 Facility ID: Not reported
 UST Number: RA-940
 Incident Number: 6281
 Source Type: 3
 Date Reported: 01/07/1991
 Closure Request: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANN STORE (Continued)

S122513844

Close Out:	Not reported
Level Of Soil Cleanup Achieved:	Not reported
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	C
Risk Classification:	H
Risk Class Based On Review:	H
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
Site Priority:	115A
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	0
MTBE1:	U
Flag:	0
Flag1:	0
LUR Filed:	Not reported
GPS Confirmed:	31
Current Status:	C
RBCA GW:	Not reported
PETOPT:	3
RPL:	False
CD Num:	Not reported
Reel Num:	Not reported
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	N
Valid:	True
Testlat:	Not reported
Regional Officer Project Mgr:	FTF
Company:	Not reported
Telephone:	919 542-2027
5 Min Quad:	Not reported
LUST:	
ERR Type:	Not reported
UST Number:	RA-940
Facility Id:	6281
Date Occurred:	1991-01-07 00:00:00
Date Reported:	1991-01-23 00:00:00
Owner/Operator:	GLENN MANN
Ownership:	5
Operation Type:	6
Type:	3
Location:	1
Priority Update:	1998-04-16 00:00:00
Wells Affected Y/N:	N
Samples Include:	0
7#5 Minute Quad:	1
5 Minute Quad:	1
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Pirf
Err Type:	Not reported
Cause:	Not reported
Source:	Not reported
UST Number:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANN STORE (Continued)

S122513844

LUST:
Incident Number: 6281
Last Modified: 3/1/2010
Incident Phase: RE
NOV Issued: 6/15/1992
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Count: 0 records.

ORPHAN SUMMARY

<u>City</u>	<u>EDR ID</u>	<u>Site Name</u>	<u>Site Address</u>	<u>Zip</u>	<u>Database(s)</u>
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/22/2024	Source: EPA
Date Data Arrived at EDR: 06/03/2024	Telephone: N/A
Date Made Active in Reports: 06/26/2024	Last EDR Contact: 08/01/2024
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/22/2024	Source: EPA
Date Data Arrived at EDR: 06/03/2024	Telephone: N/A
Date Made Active in Reports: 06/26/2024	Last EDR Contact: 08/01/2024
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/22/2024	Source: EPA
Date Data Arrived at EDR: 05/01/2024	Telephone: 800-424-9346
Date Made Active in Reports: 05/24/2024	Last EDR Contact: 08/01/2024
Number of Days to Update: 23	Next Scheduled EDR Contact: 10/21/2024
	Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024	Source: EPA
Date Data Arrived at EDR: 06/07/2024	Telephone: 800-424-9346
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 06/07/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: (404) 562-8651
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 06/07/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: (404) 562-8651
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 06/07/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: (404) 562-8651
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 06/07/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

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

Date of Government Version: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: (404) 562-8651
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 06/07/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024	Source: Department of the Navy
Date Data Arrived at EDR: 02/16/2024	Telephone: 843-820-7326
Date Made Active in Reports: 04/04/2024	Last EDR Contact: 07/31/2024
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/18/2024
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/24/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/08/2024	Telephone: 703-603-0695
Date Made Active in Reports: 08/15/2024	Last EDR Contact: 08/08/2024
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/02/2024
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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

Date of Government Version: 07/24/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/08/2024	Telephone: 703-603-0695
Date Made Active in Reports: 08/15/2024	Last EDR Contact: 08/08/2024
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/02/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 03/13/2024

Date Data Arrived at EDR: 03/19/2024

Date Made Active in Reports: 06/17/2024

Number of Days to Update: 90

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/17/2024

Next Scheduled EDR Contact: 09/30/2024

Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

HSDS: Hazardous Substance Disposal Site

Locations of uncontrolled and unregulated hazardous waste sites. The file includes sites on the National Priority List as well as those on the state priority list.

Date of Government Version: 08/09/2011

Date Data Arrived at EDR: 11/08/2011

Date Made Active in Reports: 12/05/2011

Number of Days to Update: 27

Source: North Carolina Center for Geographic Information and Analysis

Telephone: 919-754-6580

Last EDR Contact: 07/16/2024

Next Scheduled EDR Contact: 10/28/2024

Data Release Frequency: No Update Planned

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Sites Inventory

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

Date of Government Version: 02/29/2024

Date Data Arrived at EDR: 03/06/2024

Date Made Active in Reports: 05/29/2024

Number of Days to Update: 84

Source: Department of Environment, Health and Natural Resources

Telephone: 919-508-8400

Last EDR Contact: 06/05/2024

Next Scheduled EDR Contact: 09/16/2024

Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: List of Solid Waste Facilities

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

Date of Government Version: 01/24/2024

Date Data Arrived at EDR: 03/20/2024

Date Made Active in Reports: 06/13/2024

Number of Days to Update: 85

Source: Department of Environment and Natural Resources

Telephone: 919-733-0692

Last EDR Contact: 06/17/2024

Next Scheduled EDR Contact: 09/30/2024

Data Release Frequency: Varies

OLI: Old Landfill Inventory

Old landfill inventory location information. (Does not include no further action sites and other agency lead sites).

Date of Government Version: 12/07/2023

Date Data Arrived at EDR: 01/03/2024

Date Made Active in Reports: 03/22/2024

Number of Days to Update: 79

Source: Department of Environment & Natural Resources

Telephone: 919-733-4996

Last EDR Contact: 07/02/2024

Next Scheduled EDR Contact: 10/14/2024

Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEBRIS: Solid Waste Active Disaster Debris Sites Listing

NCDEQ Division of Waste Management Solid Waste Section Temporary Disaster Debris Staging Site (TDDSS) Locations which are available to be activated in a disaster or emergency.. Disaster Debris Sites can only be used for temporary disaster debris storage if the site's responsible party activates the site for use by notifying the NCDEQ DWM Solid Waste Section staff during an emergency

Date of Government Version: 03/11/2024	Source: Department of Environmental Quality
Date Data Arrived at EDR: 03/12/2024	Telephone: 919-707-8247
Date Made Active in Reports: 06/05/2024	Last EDR Contact: 06/12/2024
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Varies

LCID: Land-Clearing and Inert Debris (LCID) Landfill Notifications

A list all of the Land-Clearing and Inert Debris (LCID) Landfill Notification facilities (under 2 acres in size) in North Carolina.

Date of Government Version: 12/14/2023	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/04/2024	Telephone: 919-707-8248
Date Made Active in Reports: 07/02/2024	Last EDR Contact: 07/02/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LUST: Regional UST Database

This database contains information obtained from the Regional Offices. It provides a more detailed explanation of current and historic activity for individual sites, as well as what was previously found in the Incident Management Database. Sites in this database with Incident Numbers are considered LUSTs.

Date of Government Version: 04/26/2024	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 04/30/2024	Telephone: 919-707-8200
Date Made Active in Reports: 07/23/2024	Last EDR Contact: 07/25/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tank site locations.

Date of Government Version: 04/26/2024	Source: Department of Environment & Natural Resources
Date Data Arrived at EDR: 04/30/2024	Telephone: 877-623-6748
Date Made Active in Reports: 07/23/2024	Last EDR Contact: 07/25/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023	Source: EPA Region 1
Date Data Arrived at EDR: 01/17/2024	Telephone: 617-918-1313
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/25/2023	Source: EPA Region 4
Date Data Arrived at EDR: 01/17/2024	Telephone: 404-562-8677
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023	Source: EPA Region 8
Date Data Arrived at EDR: 01/17/2024	Telephone: 303-312-6271
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023	Source: EPA Region 7
Date Data Arrived at EDR: 01/17/2024	Telephone: 913-551-7003
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/17/2024	Telephone: 415-972-3372
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/04/2023	Source: EPA, Region 5
Date Data Arrived at EDR: 01/17/2024	Telephone: 312-886-7439
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023	Source: EPA Region 6
Date Data Arrived at EDR: 01/17/2024	Telephone: 214-665-6597
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/25/2023	Source: EPA Region 10
Date Data Arrived at EDR: 01/17/2024	Telephone: 206-553-2857
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

LUST TRUST: State Trust Fund Database

This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

Date of Government Version: 03/22/2024	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 04/04/2024	Telephone: 919-733-1315
Date Made Active in Reports: 07/02/2024	Last EDR Contact: 07/02/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024	Source: FEMA
Date Data Arrived at EDR: 03/19/2024	Telephone: 202-646-5797
Date Made Active in Reports: 06/17/2024	Last EDR Contact: 08/01/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Varies

UST: Petroleum Underground Storage Tank Database

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

Date of Government Version: 04/12/2024	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 04/19/2024	Telephone: 919-733-1308
Date Made Active in Reports: 04/22/2024	Last EDR Contact: 07/25/2024
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: Quarterly

AST: AST Database

Facilities with aboveground storage tanks that have a capacity greater than 21,000 gallons.

Date of Government Version: 11/08/2023	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 12/06/2023	Telephone: 919-715-6183
Date Made Active in Reports: 02/27/2024	Last EDR Contact: 06/06/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023	Source: EPA Region 6
Date Data Arrived at EDR: 01/17/2024	Telephone: 214-665-7591
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023	Source: EPA Region 4
Date Data Arrived at EDR: 01/17/2024	Telephone: 404-562-9424
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/24/2023	Source: EPA Region 10
Date Data Arrived at EDR: 01/17/2024	Telephone: 206-553-2857
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023	Source: EPA, Region 1
Date Data Arrived at EDR: 01/17/2024	Telephone: 617-918-1313
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023	Source: EPA Region 7
Date Data Arrived at EDR: 01/17/2024	Telephone: 913-551-7003
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023	Source: EPA Region 8
Date Data Arrived at EDR: 01/17/2024	Telephone: 303-312-6137
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023	Source: EPA Region 9
Date Data Arrived at EDR: 01/17/2024	Telephone: 415-972-3368
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023	Source: EPA Region 5
Date Data Arrived at EDR: 01/17/2024	Telephone: 312-886-6136
Date Made Active in Reports: 03/13/2024	Last EDR Contact: 07/10/2024
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring

A land use restricted site is a property where there are limits or requirements on future use of the property due to varying levels of cleanup possible, practical, or necessary at the site.

Date of Government Version: 02/29/2024	Source: Department of Environmental Quality
Date Data Arrived at EDR: 03/06/2024	Telephone: 919-508-8400
Date Made Active in Reports: 05/29/2024	Last EDR Contact: 06/05/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/16/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/14/2024
Number of Days to Update: 142	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Responsible Party Voluntary Action Sites

Responsible Party Voluntary Action site locations.

Date of Government Version: 02/29/2024	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 03/06/2024	Telephone: 919-508-8400
Date Made Active in Reports: 05/29/2024	Last EDR Contact: 06/05/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 09/16/2024
	Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Projects Inventory

A brownfield site is an abandoned, idled, or underused property where the threat of environmental contamination has hindered its redevelopment. All of the sites in the inventory are working toward a brownfield agreement for cleanup and liability control.

Date of Government Version: 03/06/2024	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 03/19/2024	Telephone: 919-733-4996
Date Made Active in Reports: 04/12/2024	Last EDR Contact: 06/25/2024
Number of Days to Update: 24	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/12/2024	Telephone: 202-566-2777
Date Made Active in Reports: 05/10/2024	Last EDR Contact: 06/11/2024
Number of Days to Update: 59	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Center Listing

A listing of recycling center locations.

Date of Government Version: 01/31/2022
Date Data Arrived at EDR: 02/02/2022
Date Made Active in Reports: 04/29/2022
Number of Days to Update: 86

Source: Department of Environment & Natural Resources
Telephone: 919-707-8137
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Listing

A listing of solid waste facilities.

Date of Government Version: 11/06/2006
Date Data Arrived at EDR: 02/13/2007
Date Made Active in Reports: 03/02/2007
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 01/19/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

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

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

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

SPILLS: Spills Incident Listing

A listing spills, hazardous material releases, sanitary sewer overflows, wastewater treatment plant bypasses and upsets, citizen complaints, and any other environmental emergency calls reported to the agency.

Date of Government Version: 10/28/2023
Date Data Arrived at EDR: 12/22/2023
Date Made Active in Reports: 01/08/2024
Number of Days to Update: 17

Source: Department of Environment & Natural Resources
Telephone: 919-807-6308
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/26/2024
Date Data Arrived at EDR: 04/30/2024
Date Made Active in Reports: 07/22/2024
Number of Days to Update: 83

Source: Department of Environment and Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

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

Date of Government Version: 09/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

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

Date of Government Version: 06/14/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/12/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/02/2024
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2023	Telephone: 615-532-8599
Date Made Active in Reports: 02/10/2023	Last EDR Contact: 08/05/2024
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/18/2024
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 03/18/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/19/2024	Telephone: 202-566-1917
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 06/17/2024
Number of Days to Update: 93	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

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

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/25/2024
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/01/2024
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020	Source: EPA
Date Data Arrived at EDR: 06/14/2022	Telephone: 202-260-5521
Date Made Active in Reports: 03/24/2023	Last EDR Contact: 06/13/2024
Number of Days to Update: 283	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022	Source: EPA
Date Data Arrived at EDR: 11/13/2023	Telephone: 202-566-0250
Date Made Active in Reports: 02/07/2024	Last EDR Contact: 08/15/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/26/2024
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024	Source: EPA
Date Data Arrived at EDR: 07/11/2024	Telephone: 202-564-4203
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 07/11/2024
Number of Days to Update: 1	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/22/2024	Source: EPA
Date Data Arrived at EDR: 06/03/2024	Telephone: 703-416-0223
Date Made Active in Reports: 06/26/2024	Last EDR Contact: 08/01/2024
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/09/2024
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 04/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/17/2024	Telephone: 202-564-8600
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 07/11/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023	Source: EPA
Date Data Arrived at EDR: 10/03/2023	Telephone: 202-564-6023
Date Made Active in Reports: 10/19/2023	Last EDR Contact: 08/01/2024
Number of Days to Update: 16	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023	Source: EPA
Date Data Arrived at EDR: 04/04/2023	Telephone: 202-566-0500
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 07/02/2024
Number of Days to Update: 66	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/26/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

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

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

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

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

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

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

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/02/2024
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 03/03/2023	Source: Department of Energy
Date Data Arrived at EDR: 03/03/2023	Telephone: 202-586-3559
Date Made Active in Reports: 06/09/2023	Last EDR Contact: 07/24/2024
Number of Days to Update: 98	Next Scheduled EDR Contact: 11/11/2024
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 08/08/2024
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/26/2024
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/22/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2024	Telephone: 703-603-8787
Date Made Active in Reports: 06/24/2024	Last EDR Contact: 08/01/2024
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

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

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

MINES VIOLATIONS: MSHA Violation Assessment Data

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

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/06/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 1

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/14/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 85

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

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

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/23/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

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

Date of Government Version: 03/18/2024	Source: Department of Interior
Date Data Arrived at EDR: 03/19/2024	Telephone: 202-208-2609
Date Made Active in Reports: 06/06/2024	Last EDR Contact: 06/13/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 09/16/2024
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 02/09/2024	Source: EPA
Date Data Arrived at EDR: 02/27/2024	Telephone: (404) 562-9900
Date Made Active in Reports: 05/24/2024	Last EDR Contact: 05/29/2024
Number of Days to Update: 87	Next Scheduled EDR Contact: 09/09/2024
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023	Source: Department of Defense
Date Data Arrived at EDR: 09/13/2023	Telephone: 703-704-1564
Date Made Active in Reports: 12/11/2023	Last EDR Contact: 07/08/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 10/21/2024
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/13/2024
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/02/2024
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 06/23/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/28/2024	Telephone: 202-564-2280
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 06/28/2024
Number of Days to Update: 14	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

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. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

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 VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less 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. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016	Source: EPA, Office of Water
Date Data Arrived at EDR: 01/06/2017	Telephone: 202-564-2496
Date Made Active in Reports: 03/10/2017	Last EDR Contact: 06/27/2024
Number of Days to Update: 63	Next Scheduled EDR Contact: 10/14/2024
	Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/16/2024	Telephone: 202-564-4700
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 07/16/2024
Number of Days to Update: 87	Next Scheduled EDR Contact: 10/28/2024
	Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories. UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2023	Telephone: 202-564-0394
Date Made Active in Reports: 01/18/2024	Last EDR Contact: 08/08/2024
Number of Days to Update: 106	Next Scheduled EDR Contact: 11/18/2024
	Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/31/2023	Telephone: 202-564-0394
Date Made Active in Reports: 01/18/2024	Last EDR Contact: 08/08/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 11/18/2024
	Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as e-Manifest, will modernize the nation's cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/18/2024	Telephone: 833-501-6826
Date Made Active in Reports: 06/06/2024	Last EDR Contact: 06/07/2024
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/30/2024
	Data Release Frequency: Varies

PFAS: PFAS Contamination Site Listing

List of PFAS facilities

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/18/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/08/2022
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 919-707-8233
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

AIRS: Air Quality Permit Listing

A listing of facilities with air quality permits.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 919-707-8726
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

ASBESTOS: Asbestos Permits & Notifications Information

Asbestos notification sites

Date of Government Version: 05/10/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/12/2024
Number of Days to Update: 90

Source: Department of Health & Human Services
Telephone: 919-707-5973
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

CCB: Coal Ash Structural Fills (CCB) Listing

These are not permitted Coal Ash landfills A list all of the now closed Coal Ash Structural Fills (CCB) in North Carolina, in point data form. The purpose is to provide the public and other government entities a visual overview of coal ash structural fills throughout the state and increase public awareness of their current locations.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 07/02/2021
Date Made Active in Reports: 09/27/2021
Number of Days to Update: 87

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of coal combustion products distribution permits issued by the Division for the treatment, storage, transportation, use and disposal of coal combustion products.

Date of Government Version: 01/24/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/13/2024
Number of Days to Update: 85

Source: Department of Environment & Natural Resources
Telephone: 919-807-6359
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Sites

Potential and known drycleaning sites, active and abandoned, that the Drycleaning Solvent Cleanup Program has knowledge of and entered into this database.

Date of Government Version: 01/08/2024
Date Data Arrived at EDR: 03/12/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 85

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/12/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 04/22/2024
Number of Days to Update: 3

Source: Department of Environment & Natural Resources
Telephone: 919-733-1322
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

FIN ASSURANCE 2: Financial Assurance Information Listing

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

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/03/2012
Date Made Active in Reports: 10/26/2012
Number of Days to Update: 23

Source: Department of Environmental & Natural Resources
Telephone: 919-508-8496
Last EDR Contact: 06/14/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

FIN ASSURANCE 3: Financial Assurance Information Hazardous waste financial assurance information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 83

Source: Department of Environment & Natural Resources
Telephone: 919-707-8222
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing

General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/24/2024
Date Made Active in Reports: 07/19/2024
Number of Days to Update: 86

Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PCSRP: Petroleum-Contaminated Soil Remediation Permits

To treat petroleum-contaminated soil in order to protect North Carolina's environment and the health of the citizens of North Carolina.

Date of Government Version: 08/18/2022
Date Data Arrived at EDR: 10/03/2022
Date Made Active in Reports: 12/16/2022
Number of Days to Update: 74

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

SEPT HAULERS: Permitted Septage Haulers Listing

This list of all active and permitted Septage Land Application Site (SLAS) and Septage Detention and Treatment Facility (SDTF) sites in North Carolina. The purpose of this map is to provide the public and government entities a visual overview of the businesses that manage septage and septage facilities throughout the state.

Date of Government Version: 12/14/2023
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/02/2024
Number of Days to Update: 89

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of underground injection wells locations.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/25/2023
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/21/2024
Number of Days to Update: 86

Source: Department of Environment & Natural Resources
Telephone: 919-807-6412
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

AOP: Animal Operation Permits Listing

This listing includes animal operations that are required to be permitted by the state.

Date of Government Version: 08/29/2023
Date Data Arrived at EDR: 08/31/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 919-707-9129
Last EDR Contact: 06/06/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

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

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

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

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

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment, Health and Natural Resources in North Carolina.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/20/2013
Number of Days to Update: 172

Source: Department of Environment, Health and Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/05/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 08/01/2024
Number of Days to Update: 86

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

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

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Health & Human Services

Telephone: 919-662-4499

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

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PROPOSED DG STORE
NOT REPORTED
PITTSBORO, NC 27312

TARGET PROPERTY COORDINATES

Latitude (North):	35.804876 - 35° 48' 17.55"
Longitude (West):	79.250162 - 79° 15' 0.58"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	658107.9
UTM Y (Meters):	3963519.5
Elevation:	563 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50021414 SILK HOPE, NC
Version Date:	2022
East Map:	50021258 BYNUM, NC
Version Date:	2022

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

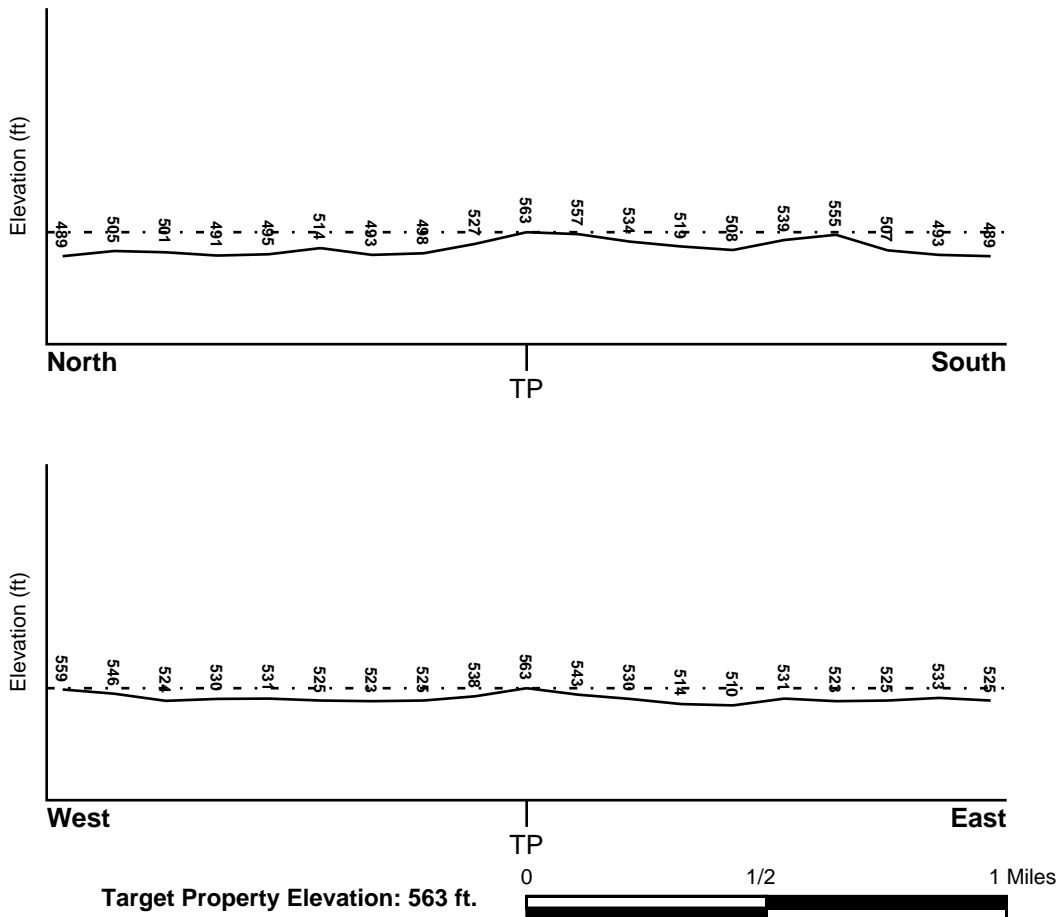
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
3710972400J	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
3710973500J	FEMA FIRM Flood data
3710972500J	FEMA FIRM Flood data
3710973400J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
SILK HOPE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Cambrian
Series:	Cambrian
Code:	Ce <i>(decoded above as Era, System & Series)</i>

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Component Name:	HERNDON
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 4.50
2	9 inches	48 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
3	48 inches	68 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
gravelly - silt loam
stony - silt loam
clay loam
channery - silt loam
loam

Surficial Soil Types: sandy loam
gravelly - silt loam
stony - silt loam
clay loam
channery - silt loam
loam

Shallow Soil Types: silty clay loam
sandy clay
silt loam
loam
clay loam
very channery - silt loam

Deeper Soil Types: silty clay loam
weathered bedrock
unweathered bedrock
sandy clay loam
clay

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000890889	1/2 - 1 Mile NE
4	USGS40000890923	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	NC0319405	1/2 - 1 Mile NNE

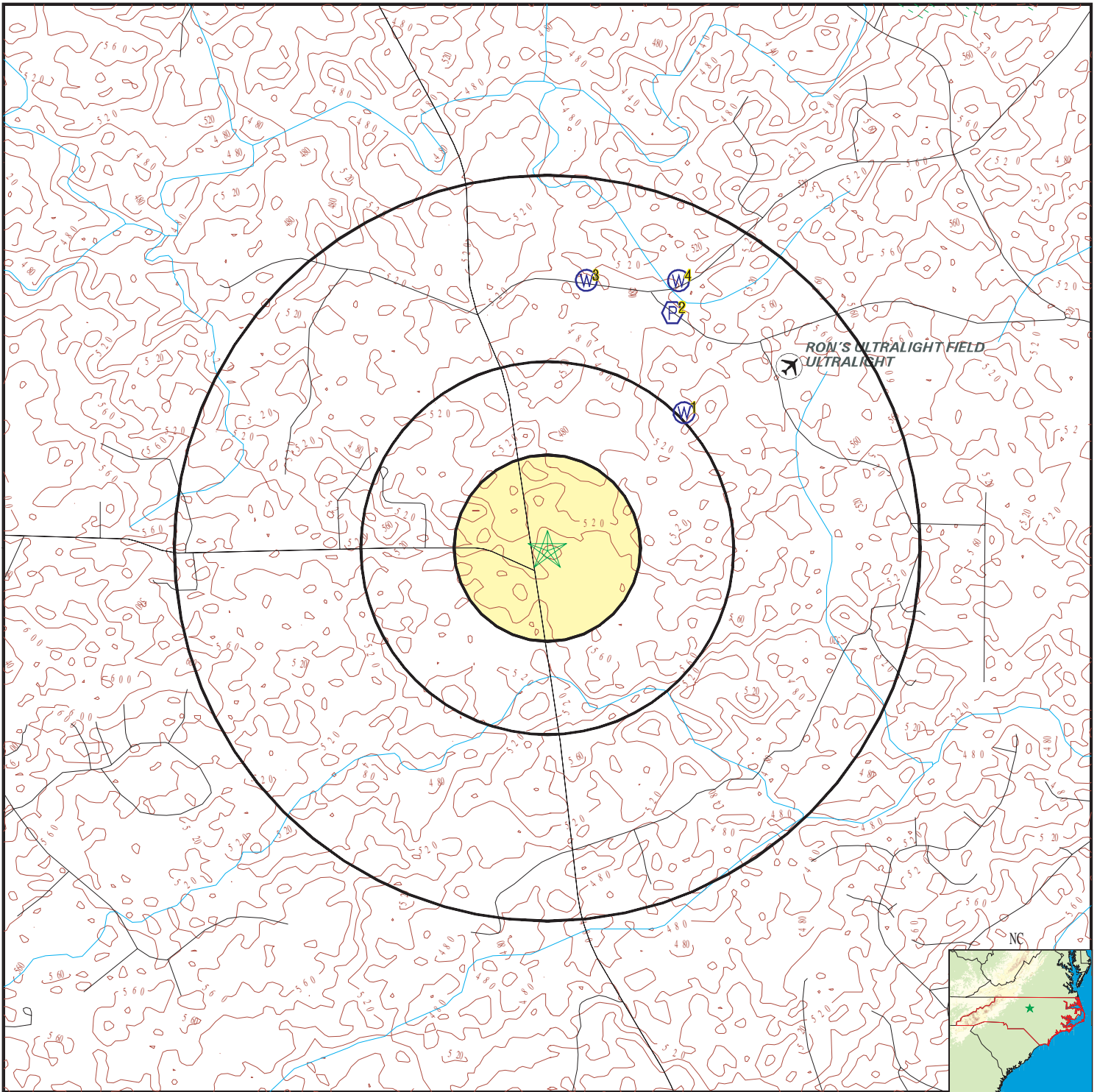
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
3	NC4000000014578	1/2 - 1 Mile North

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE MAP - 7739974.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Wildlife Areas
- Natural Areas
- Rare & Endangered Species

SITE NAME: Proposed DG Store
 ADDRESS: Not Reported
 Pittsboro NC 27312
 LAT/LONG: 35.804876 / 79.250162

CLIENT: Proctor Environmental Services, Inc.
 CONTACT: Tom Proctor
 INQUIRY #: 7739974.2s
 DATE: August 19, 2024 7:10 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NE
1/2 - 1 Mile
Lower

FED USGS USGS40000890889

Organization ID:	USGS-NC		
Organization Name:	USGS North Carolina Water Science Center		
Monitor Location:	CH-041	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Piedmont and Blue Ridge crystalline-rock aquifers		
Formation Type:	Felsic Metagneous Rock	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	95
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1966
Feet below surface:	22	Feet to sea level:	Not Reported
Note:	Not Reported		

2
NNE
1/2 - 1 Mile
Lower

FRDS PWS NC0319405

Epa region:	04	State:	NC
Pwsid:	NC0319405	Pwsname:	BROWN'S CHAPEL UMC
Cityserved:	Not Reported	Stateserved:	NC
Zipserved:	Not Reported	Fipscounty:	37037
Status:	Active	Retpopsrvd:	75
Pwssvconn:	1	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Private
Contact:	ALVORD, LEX	Contactorgname:	ALVORD, LEX
Contactphone:	919-548-3725	Contactaddress1:	2501 EMERSON COOK RD
Contactaddress2:	Not Reported	Contactcity:	PITTSBORO
Contactstate:	NC	Contactzip:	27312
Pwsactivitycode:	A		

PWS ID:	NC0319405	PWS type:	System Owner/Responsible Party
PWS name:	LEE NORRIS MANN OR PASTOR	PWS address:	Not Reported
PWS city:	PITTSBORO	PWS state:	NC
PWS zip:	27312	PWS ID:	NC0319405
PWS type:	System Owner/Responsible Party		
PWS name:	BROWNS CHAPEL METH CHURCH	PWS address:	Not Reported
PWS city:	PITTSBORO	PWS state:	NC
PWS zip:	27312	PWS name:	BROWN'S CHAPEL UMC
PWS type code:	NC	Retail population served:	75
Contact:	SLOANE, WILLIAM	Contact address:	PO BOX 1111
Contact address:	GRAHAM	Contact city:	NC
Contact state:	27	Contact zip:	336-376-81
Contact telephone:	Not Reported		

PWS ID:	NC0319405	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported
Retail population:	00000180	System name:	BROWNS CHAPEL METH CHURCH
System address:	Not Reported	System city:	PITTSBORO
System state:	NC	System zip:	27312

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County FIPS:	019	City served:	PITTSBORO
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	354312	Longitude:	0791039
Latitude:	354850	Longitude:	0791440
Violation id:	2831403	Orig code:	S
State:	NC	Violation Year:	2007
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2007
Cmp edt:	06/30/2007		
Violation id:	2831404	Orig code:	S
State:	NC	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2008
Cmp edt:	01/31/2008		
Violation id:	2831405	Orig code:	S
State:	NC	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2009
Cmp edt:	03/31/2009		
Violation id:	2831406	Orig code:	S
State:	NC	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2009
Cmp edt:	06/30/2009		
Violation id:	2831407	Orig code:	S
State:	NC	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	09/30/2009		
Violation id:	2831408	Orig code:	S
State:	NC	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2009
Cmp edt:	12/31/2009		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation id:	2831409	Orig code:	S
State:	NC	Violation Year:	2009
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2009
Cmp edt:	12/31/2009		
Violation id:	2831410	Orig code:	S
State:	NC	Violation Year:	2010
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	75	Violation name:	PN Violation for NPDWR Violation
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	08/07/2010
Cmp edt:	Not Reported		
Violation id:	2831411	Orig code:	S
State:	NC	Violation Year:	2010
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	75	Violation name:	PN Violation for NPDWR Violation
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/23/2010
Cmp edt:	Not Reported		
Violation id:	2831412	Orig code:	S
State:	NC	Violation Year:	2010
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2010
Cmp edt:	12/31/2010		
Violation id:	2831413	Orig code:	S
State:	NC	Violation Year:	2011
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2011
Cmp edt:	03/31/2011		
Violation id:	2831414	Orig code:	S
State:	NC	Violation Year:	2011
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	75	Violation name:	PN Violation for NPDWR Violation
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/08/2011
Cmp edt:	Not Reported		
Violation id:	2831415	Orig code:	S
State:	NC	Violation Year:	2011
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	75	Violation name:	PN Violation for NPDWR Violation
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	03/31/2011
Cmp edt:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation id:	2831416	Orig code:	S
State:	NC	Violation Year:	2011
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2011
Cmp edt:	09/30/2011		
Violation id:	2831417	Orig code:	S
State:	NC	Violation Year:	2011
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2011
Cmp edt:	12/31/2011		
Violation id:	2831418	Orig code:	S
State:	NC	Violation Year:	2011
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2011
Cmp edt:	12/31/2011		
Violation id:	2831419	Orig code:	S
State:	NC	Violation Year:	2012
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	75	Violation name:	PN Violation for NPDWR Violation
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/03/2012
Cmp edt:	Not Reported		
Violation id:	2831420	Orig code:	S
State:	NC	Violation Year:	2013
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	21	Violation name:	MCL, Acute (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2013
Cmp edt:	12/31/2013		
Violation id:	2831421	Orig code:	S
State:	NC	Violation Year:	2013
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2013
Cmp edt:	09/30/2013		
Violation id:	2831422	Orig code:	S
State:	NC	Violation Year:	2013
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2013
Cmp edt:	10/31/2013		

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Violation id:	2831423	Orig code:	S
State:	NC	Violation Year:	2013
Contamination code:	3014	Contamination Name:	E. COLI
Violation code:	34	Violation name:	Monitoring, Source Water (GWR)
Rule code:	140	Rule name:	GWR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/13/2013
Cmp edt:	Not Reported		
Violation id:	2831424	Orig code:	S
State:	NC	Violation Year:	2014
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2014
Cmp edt:	01/31/2014		
Violation id:	2831425	Orig code:	S
State:	NC	Violation Year:	2014
Contamination code:	7500	Contamination Name:	Public Notice
Violation code:	75	Violation name:	PN Violation for NPDWR Violation
Rule code:	410	Rule name:	PN rule
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/04/2014
Cmp edt:	Not Reported		
Violation id:	501	Orig code:	S
State:	NC	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2001
Cmp edt:	03/31/2001		
Violation id:	603	Orig code:	S
State:	NC	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2003
Cmp edt:	06/30/2003		
Violation id:	703	Orig code:	S
State:	NC	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2003
Cmp edt:	07/31/2003		
Violation ID:	2831403	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	10/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831403	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/22/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal

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Violation ID:	2831403	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	09/30/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831403	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	10/15/2007
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831404	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	04/30/2008
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831404	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	04/30/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831404	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/30/2008
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	2831404	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/22/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831404	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	09/30/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831405	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/22/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831405	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/28/2011
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	2831405	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/06/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831405	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/06/2009
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831405	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/09/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831406	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831406	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831406	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/22/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831406	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/09/2010

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Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831406	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/28/2011
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	2831407	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/07/2010
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831407	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	03/19/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831407	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	01/07/2010
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831407	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/09/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831407	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/28/2011
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	2831408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/09/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/11/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831408	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/28/2011
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	2831409	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/04/2010
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831409	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/04/2010
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831409	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	04/29/2011
Enforcement Detail:	St Other	Enforcement Category:	Informal
Violation ID:	2831409	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	06/30/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

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Violation ID:	2831409	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	07/02/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831410	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	02/03/2011
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831410	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	05/10/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831410	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	02/03/2011
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831411	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	05/10/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831411	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	02/25/2011
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831411	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	02/25/2011
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831412	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	03/10/2011
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831412	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	05/10/2011
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	2831412	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	03/31/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831412	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	04/18/2011
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831412	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	03/10/2011
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831412	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	03/10/2011
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831413	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	12/05/2012
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	2831413	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	06/03/2011
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

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Violation ID:	2831413	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	06/03/2011
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831413	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	03/31/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831413	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	06/03/2011
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831414	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	05/10/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831415	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	05/10/2011
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831416	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	03/31/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831416	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	12/05/2012
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	2831416	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	02/15/2012
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831416	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	02/15/2012
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831416	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	02/15/2012
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831416	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	03/15/2012
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831417	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	04/24/2012
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831417	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	12/05/2012
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	2831417	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	04/24/2012
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831417	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	04/24/2012
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

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Violation ID:	2831417	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	03/31/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831417	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	06/20/2012
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831418	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	03/29/2012
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831418	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	06/06/2012
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831418	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	12/05/2012
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	2831418	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	05/01/2012
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831418	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	05/01/2012
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831418	Orig Code:	S
Enforcemnt FY:	2012	Enforcement Action:	05/01/2012
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831419	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	11/22/2012
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831419	Orig Code:	S
Enforcemnt FY:	2013	Enforcement Action:	11/22/2012
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831419	Orig Code:	S
Enforcement Action:	05/02/2012	Enforcemnt FY:	2012
Enforcement Category:	Resolving	Enforcement Detail:	St Compliance achieved
Violation ID:	2831420	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	12/31/2013
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831420	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/03/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831420	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/03/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831420	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/03/2014

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Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831420	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/03/2014
Enforcement Detail:	St Tech Assistance Visit	Enforcement Category:	Informal
Violation ID:	2831420	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/03/2014
Enforcement Detail:	St Boil Water Order	Enforcement Category:	Informal
Violation ID:	2831421	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/14/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831421	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/14/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831421	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	12/31/2013
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831421	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831421	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	01/14/2014
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831422	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/19/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831422	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/19/2014
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831422	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	04/02/2014
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831422	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/19/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831422	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	12/31/2013
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	2831423	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/19/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831423	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/19/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831423	Orig Code:	S

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Enforcemnt FY:	2014	Enforcement Action:	02/19/2014
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831424	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	05/13/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831424	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	05/13/2014
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	2831424	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	06/02/2014
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	2831424	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	05/13/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	2831425	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	06/13/2014
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	2831425	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	06/13/2014
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	299	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	02/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	399	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	02/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	400	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	02/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	501	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/01/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	501	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	02/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	501	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/01/2001
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	07/31/2003
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	07/31/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	603	Orig Code:	S

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Enforcemnt FY:	2004	Enforcement Action:	02/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	603	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/15/2003
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	703	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/29/2003
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	703	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	02/29/2004
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	703	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	08/29/2003
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	2831403
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	4/1/2007 0:00:00	Compliance end date:	6/30/2007 0:00:00
Enforcement date:	10/15/2007 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	2831403
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	4/1/2007 0:00:00	Compliance end date:	6/30/2007 0:00:00
Enforcement date:	10/15/2007 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	2831404
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	4/30/2008 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	2831404
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	4/30/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	2831404
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	1/1/2008 0:00:00	Compliance end date:	1/31/2008 0:00:00
Enforcement date:	7/30/2008 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	501
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	1/1/2001 0:00:00	Compliance end date:	3/31/2001 0:00:00
Enforcement date:	2/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS type code:	NC	Violation ID:	501
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	1/1/2001 0:00:00	Compliance end date:	3/31/2001 0:00:00
Enforcement date:	5/1/2001 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	501
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	1/1/2001 0:00:00	Compliance end date:	3/31/2001 0:00:00
Enforcement date:	5/1/2001 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	603
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Repeat Major (TCR)
Compliance start date:	6/1/2003 0:00:00	Compliance end date:	6/30/2003 0:00:00
Enforcement date:	2/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	603
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Repeat Major (TCR)
Compliance start date:	6/1/2003 0:00:00	Compliance end date:	6/30/2003 0:00:00
Enforcement date:	7/31/2003 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	603
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Repeat Major (TCR)
Compliance start date:	6/1/2003 0:00:00	Compliance end date:	6/30/2003 0:00:00
Enforcement date:	7/31/2003 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	603
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Repeat Major (TCR)
Compliance start date:	6/1/2003 0:00:00	Compliance end date:	6/30/2003 0:00:00
Enforcement date:	8/15/2003 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	703
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	7/31/2003 0:00:00
Enforcement date:	2/29/2004 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	703
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	7/31/2003 0:00:00
Enforcement date:	8/29/2003 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	BROWN'S CHAPEL UMC	Population served:	75
PWS type code:	NC	Violation ID:	703
Contaminant:	Coliform (Tcr)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	7/1/2003 0:00:00	Compliance end date:	7/31/2003 0:00:00
Enforcement date:	8/29/2003 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

3
North
1/2 - 1 Mile
Lower

NC WELLS NC4000000014578

WELLS:

Water System ID:	NC0319405	Water System Name:	BROWN'S CHAPEL UMC
WS Activity Status:	Active	WS Federal Type:	Non Community Transient
Primary Source:	Ground Water	Facility ID:	S01
Facility Status:	Active	Facility Name:	WELL #2
Facility Water Type:	Ground Water	Facility Availability:	Permanent
Well Depth:	125	Units:	FT
Owner:	BROWN'S CHAPEL UMC_0319405		

4
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000890923

Organization ID:	USGS-NC		
Organization Name:	USGS North Carolina Water Science Center		
Monitor Location:	CH-040	Type:	Well
Description:	Not Reported	HUC:	03030002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	26	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

Acres: 78.49
Quality type: Not Reported
Site id: 2071

Sitename:
Sig:
Edr id:

NC_SNHA NC10002071
TERRELLS CREEK GALAX BLUFFS
D
NC10002071

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: NC Radon

Radon Test Results

Num Results	Avg pCi/L	Min pCi/L	Max pCi/L
3	0.53	0.5	0.6
1	2.80	2.8	2.8

Federal EPA Radon Zone for CHATHAM County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 27312

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

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

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

North Carolina Public Water Supply Wells

Source: Department of Environmental Health

Telephone: 919-715-3243

OTHER STATE DATABASE INFORMATION

North Carolina Wildlife Resources/Game Lands

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

All publicly owned game lands managed by the North Carolina Wildlife Resources Commission and as listed in Hunting and Fishing Maps.

NC Natural Heritage Sites: Natural Heritage Element Occurrence Sites

Source: Natural Heritage Occurrence Sites Center for Geographic Information and Analysis

Telephone: 919-733-2090

A point coverage identifying locations of rare and endangered species, occurrences of exemplary or unique natural ecosystems (terrestrial or aquatic), and special animal habitats (e.g., colonial waterbird nesting sites).

NC Natural Areas: Significant Natural Heritage Areas

Source: Center for Geographic Information and Analysis

Telephone: 919-733-2090

A polygon coverage identifying sites (terrestrial or aquatic) that have particular biodiversity significance.

A site's significance may be due to the presence of rare species, rare or high quality natural communities, or other important ecological features.

RADON

State Database: NC Radon

Source: Department of Environment & Natural Resources

Telephone: 919-733-4984

Radon Statistical and Non Statistical Data

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

STREET AND ADDRESS INFORMATION

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APPENDIX J

QUALIFICATIONS OF ASSESSOR

EDUCATION

UNC at Chapel Hill
B.S., Geology, 1982

Graduate School: ECU
Geology

REGISTRATIONS

Professional Geologist:
North Carolina and Virginia

Registered Site Manager
(RSM): NC Inactive Sites
Program

OSHA 40-hour Health
and Safety Training

MEMBERSHIPS

American Institute of
Professional Geologists

Groundwater Professionals
of North Carolina

Association of Ground
Water Scientists and
Engineers

YEARS IN PROFESSION

30±

CAREER SUMMARY

In 2012, Mr. Proctor divested his share of Mid-Atlantic Associates, Inc., an environmental consulting firm he started in 1993. In 2014 he started **Proctor Environmental Services, Inc.**, a smaller, more nimble, client-focused environmental consulting service. He has almost 30 years of experience in assigning project work, scheduling operational tasks, performing geologic and hydrologic work, and managing project administration associated with environmental consulting businesses. He specializes in soil and groundwater assessment and cleanup at petroleum and hazardous substance sites and has performed and directed assessment/remedial work at numerous contamination sites, including DNAPL, involving a variety of technical approaches.

Mr. Proctor has managed and provided technical review for numerous Comprehensive Site Assessments (CSAs) in North Carolina, South Carolina and Virginia. These site assessments have been conducted at petroleum and hazardous substance sites regulated by the states' respective UST and RCRA regulatory programs and have included soil gas surveys, groundwater monitoring wells, GeoProbes, and soil borings. Additional site assessment expertise involves Phase II activities including reconnaissance level sampling to Phase III activities involving comprehensive remedial investigations and remedial feasibility studies.

In addition, Mr. Proctor is experienced in the preparation and implementation of Corrective Action Plans (CAPs). These CAPs have been prepared for and implemented at numerous petroleum and hazardous substance contamination sites in NC and VA and have included the remediation of soil via excavation and disposal, vapor extraction and injection of chemical and biological agents to degrade petroleum and chlorinated solvents. Groundwater remediation has been effectively accomplished via air sparging, extraction, air-stripping and NPDES discharge.

Mr. Proctor is approved by North Carolina's Inactive Sites Program to manage site remedial action activities and to certify regulatory compliance of assessment and remedial actions at sites where responsible parties have entered into consent agreements with the Inactive Hazardous Sites Branch for conducting voluntary remedial actions.

SUB-SPECIALTY EXPERIENCE

Project Management

Mr. Proctor has managed projects ranging up to \$4,000,000 in fees. Mr. Proctor's experience includes managing numerous multi-task projects simultaneously for commercial, industrial and governmental clients. His management experience has included scheduling and sequencing work elements for remedial projects associated with petroleum, solvent and metals contamination. He is experienced in cost-plus, lump sum, and time and material fee based projects. In addition, he is familiar with subcontractor pre-qualification and selection processes, managing subcontractors, as well as processing and approving subcontractor payment requests. His experience includes managing assessment, corrective action planning, design, and equipment maintenance and operation projects associated with environmental remediation.

Remedial Action and Remedial Design

Mr. Proctor has managed and provided technical review for over 25 remediation projects. His experience includes the remediation of solvents, metals and petroleum contaminants in both soil and ground water. Mr. Proctor has developed remedial action plans as well as design plans and specifications for the construction of free product and ground water recovery and treatment systems. He has field experience with the installation, operation and troubleshooting of remedial equipment. He is also experienced as a liaison between the regulatory community and the client from the remedial system design phase to permitting and through system operations. Mr. Proctor has management and field experience with petroleum contaminated soil treatment by soil vapor extraction, bioventilation, land farming and off-site brick incorporation. Similarly, he has management and field experience with groundwater pump and treat, air sparging and biosparging systems as well as natural attenuation. He has successfully applied for non-discharge, POTW and NPDES discharge permits for remedial projects and has provided design and construction of the discharge systems.

Contamination Assessments

Mr. Proctor has managed and provided technical review on numerous site contamination assessments including soil and groundwater contamination assessments resulting from leaking underground storage tanks, aboveground storage tanks, and mishandling of drummed materials. He has performed and directed fieldwork involving soil gas surveys, the installation and development of groundwater monitoring wells, Hydropunches, GeoProbes and the collection of soil and ground-water samples. Project management responsibilities include project budgets, completion dates, coordination and supervision of field personnel, consultation with regulatory personnel and report preparation.

Phase I Environmental Site Assessments

Mr. Proctor has performed and managed more than 300 Phase I Environmental Audits for a variety of properties ranging from rural and undeveloped to urban industrial. His responsibilities included proposal development, contracting, budget development and successful project completion. Mr. Proctor has experience coordinating a project team to meet demanding project timetables often associated with Phase I Audits.

Pilot Studies

Mr. Proctor has performed numerous soil vapor extraction and air sparging pilot tests in association with solvent and petroleum-fuel releases.

Pollution Prevention

Mr. Proctor has executed regulatory-driven projects involving upgrading underground and aboveground storage tanks and spill prevention control and counter-measure (SPCC) plans.