

APPENDIX A
FIGURES

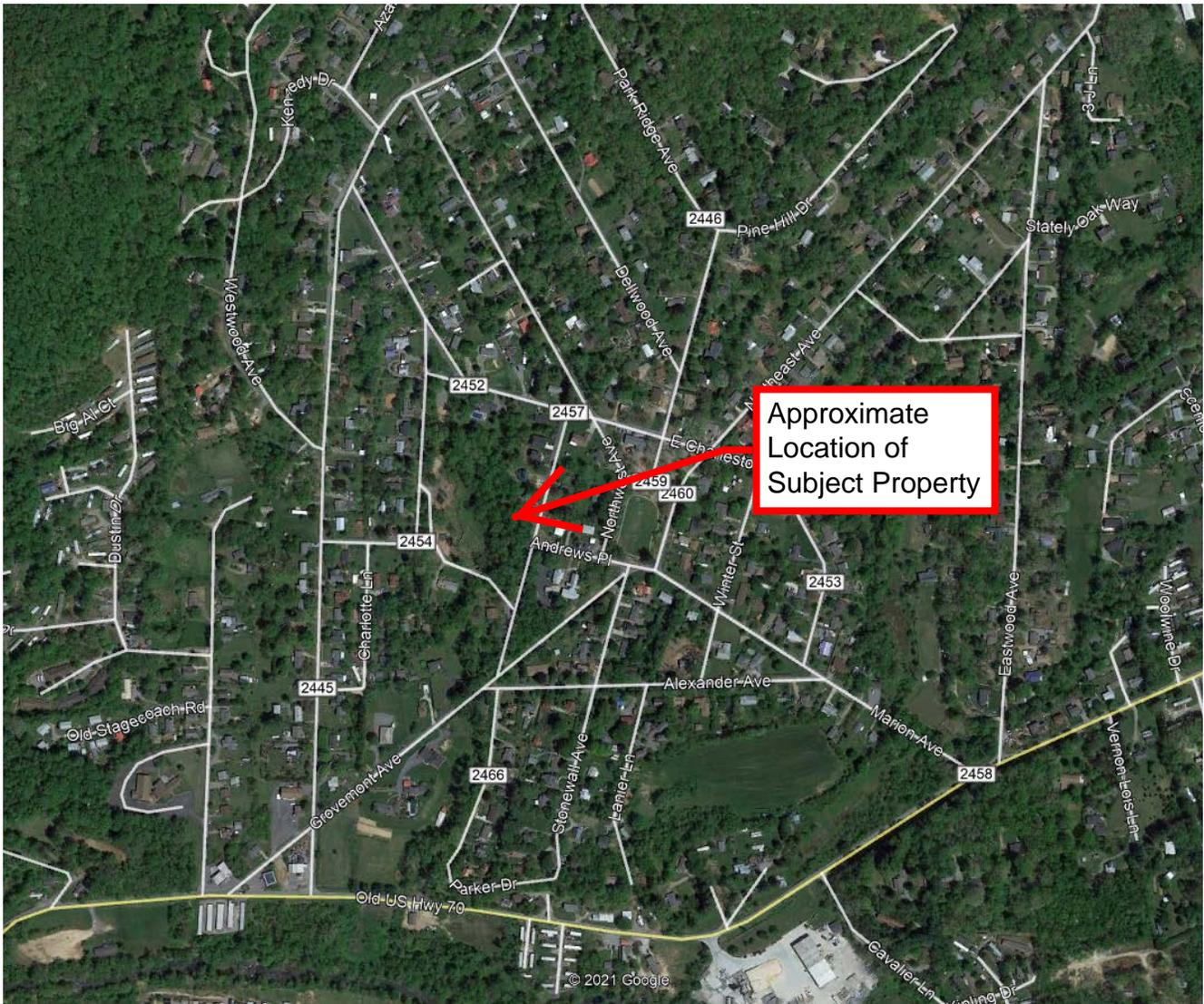


Image Courtesy of Google Maps



Natural Geodata PLLC
 58 Pittman Road
 Fletcher, NC 28732
 (919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
 Buncombe County, North Carolina

Site Vicinity Map

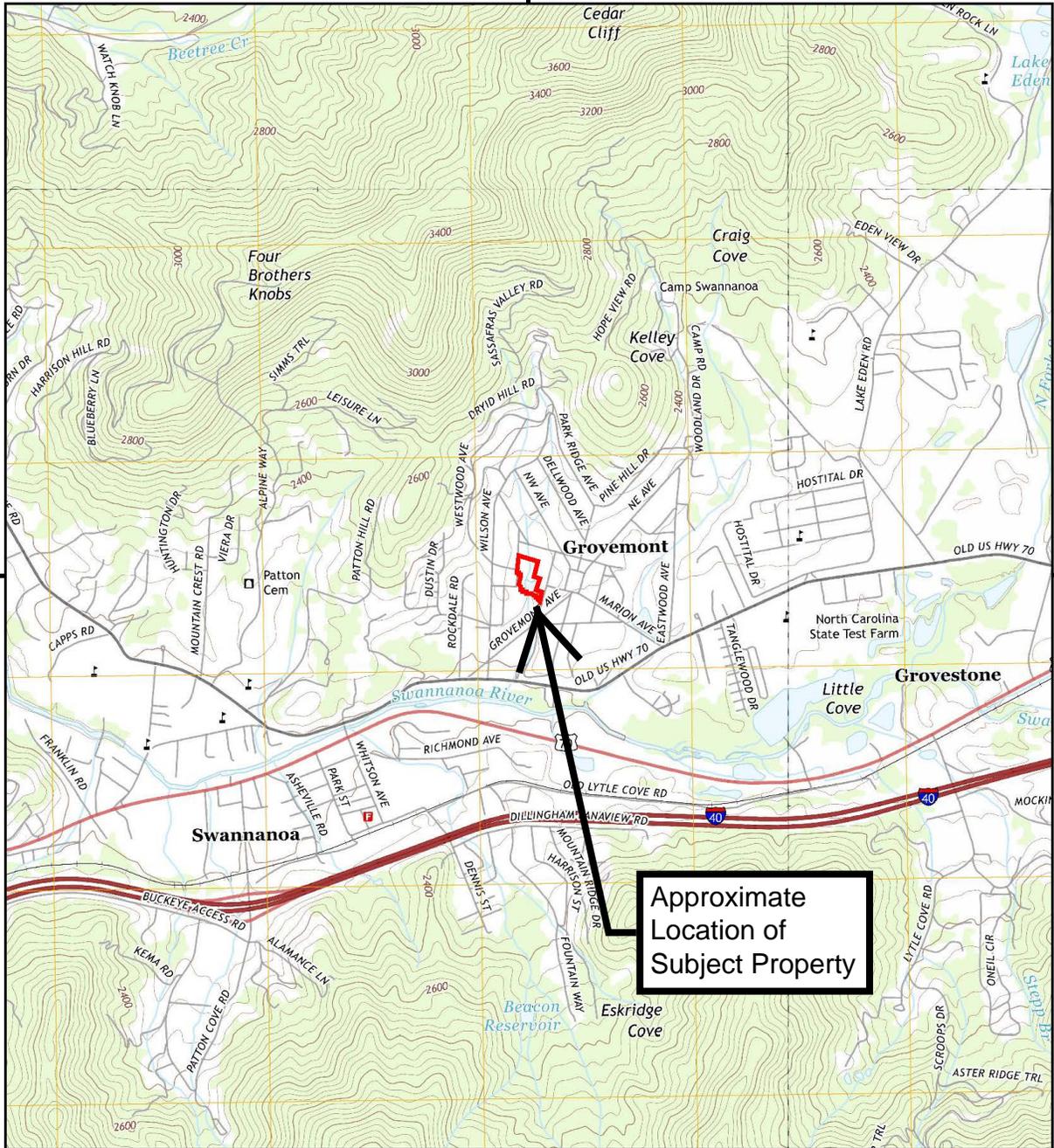
Project: 35020121

Date: 2/3/2021

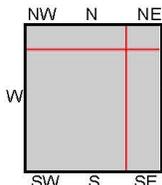
Drawn By: JRF

Review By: JRF

Figure: 1



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



TP, Oteen, 2013, 7.5-minute
 NE, Montreat, 2013, 7.5-minute
 SE, Black Mountain, 2013, 7.5-minute
 NW, Craggy Pinnacle, 2013, 7.5-minute

SITE NAME: Prospective Park - Hawthorne Ave
 ADDRESS: 99999 Hawthorne Ave
 Swannanoa, NC 28778
 CLIENT: Natural Geodata, PLLC



Figure courtesy of EDR / USGS



Natural Geodata PLLC
 58 Pittman Road
 Fletcher, NC 28732
 (919) 522 1509
 www.naturalgeodata.com

Prospective Park - Grovemont
 Buncombe County, North Carolina

Site Topographic Map

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 2



Image Courtesy of Buncombe County GIS (County 2020 Aerial)



Natural Geodata PLLC
 58 Pittman Road
 Fletcher, NC 28732
 (919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
 Buncombe County, North Carolina

Site Sketch

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 3



Image Courtesy of NCDOT Aerial Photo Catalog



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(1957)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 4

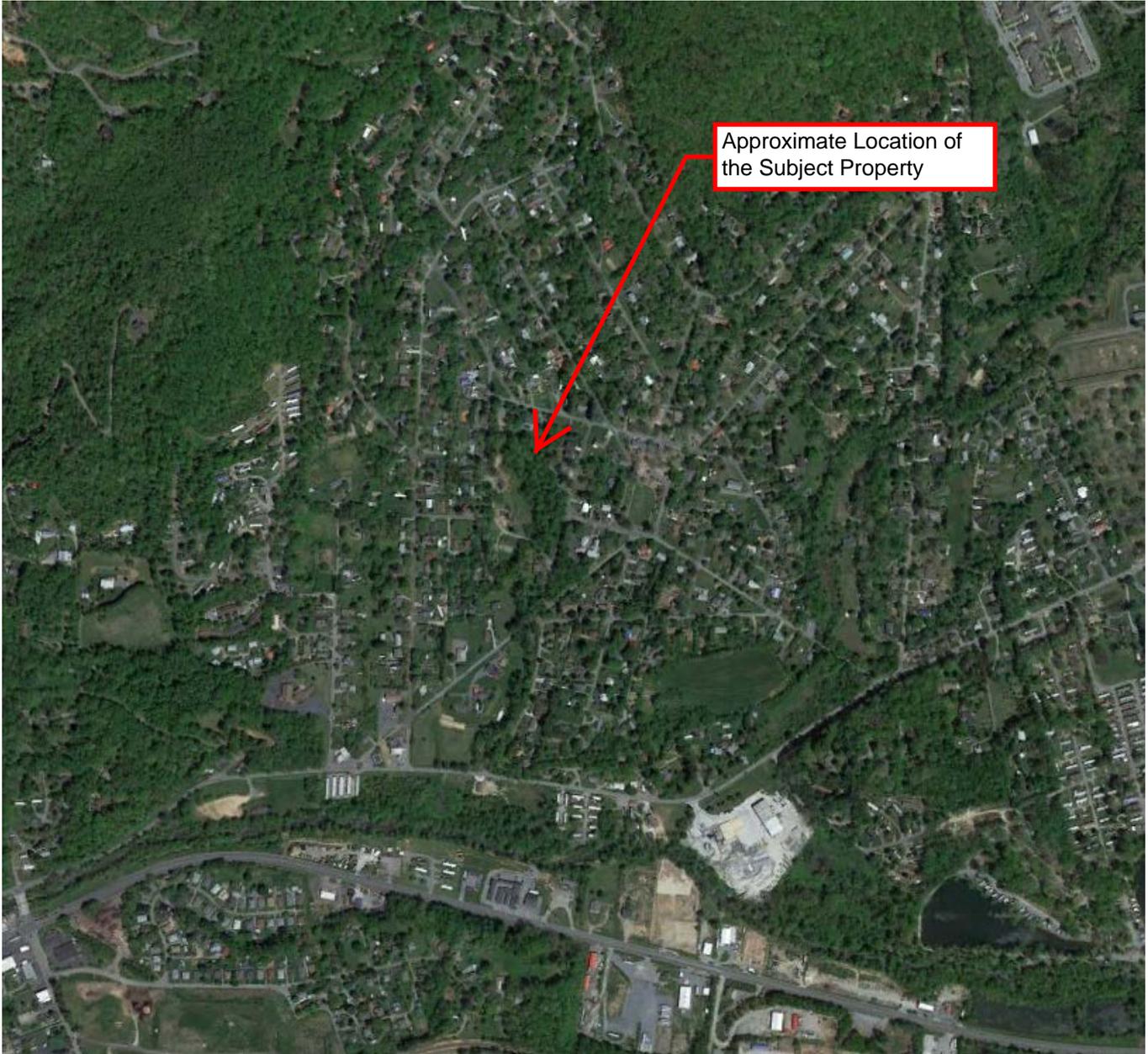


Image Courtesy of Google Earth Pro



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(2019)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 5

APPENDIX B
SITE PHOTOGRAPHS



PHOTOGRAPH 1: A view of the northeast boundary of the subject property.



PHOTOGRAPH 2: Water feature present on the subject property.



PHOTOGRAPH 3: Vegetation coverage on the subject property.



PHOTOGRAPH 4: A view of the possible ruined spring house, facing north.



PHOTOGRAPH 5: A view of the possible ruined spring house, facing west.



PHOTOGRAPH 6: A view of the bed of the large stream running through the property, facing west.



PHOTOGRAPH 7: A view of the west boundary of the subject property, facing northwest.



PHOTOGRAPH 8: A view of the west boundary of the subject property, facing southwest.



PHOTOGRAPH 9: A representative view of a stream running through the subject property, facing north.



PHOTOGRAPH 10: Minor nuisance dumping on the property.



PHOTOGRAPH 11: A view of the possible ruined stone pavilion seen in historical photographs.



PHOTOGRAPH 12: A view of the subject property from the corner of Ivanhoe Drive and Summer Street.



PHOTOGRAPH 13: Minor nuisance dumping on the subject property.



PHOTOGRAPH 14: A view of the subject property facing north from Ivanhoe Drive.



PHOTOGRAPH 15: The possible remains of Lake June on the subject property, facing north.



PHOTOGRAPH 16: The possible ruined dam / basin structure on the southern portion of the subject property.



PHOTOGRAPH 17: A view of the unidentified pipe draining onto the subject property. The pipes source could not be verified as it originates on private property that is not associated with the subject property.



PHOTOGRAPH 18: A closer view of the pipe draining onto the subject property from a private property that is not associated with the subject property.

APPENDIX C
CORRESPONDENCE

ASTM E1527-13 USER QUESTIONNAIRE

When the "user" (the party for whom the assessment is being prepared) of the Phase I is required to help the environmental professional identify recognized environmental conditions at the property, a "User Questionnaire" is completed by the user to help gather information that may identify recognized environmental conditions at the property.

We ask that you answer the six questions below to the best of your knowledge. We understand that, in some circumstances, you may have little or no information. Still, we encourage you to complete and return the questionnaire as soon as possible. This will allow us to reflect the fact that the Questionnaire was completed when we issue our report as is required.

On the second page of this form is a list of documentation. The E1527-13 Standard requires that the User will ensure that the consultant is made aware that any of these materials exist for a site, and if so, that these documents be provided for the consultant's review. Please indicate whether any of these documents are available, and ensure that Natural Geodata PLLC will either receive copies or be provided an opportunity to review the relevant materials. We appreciate your assistance. If you have any questions, feel free to contact us.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?

no

2. Are you aware of any Activity and Use Limitations (AUL's), 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?

no

3. As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

no

4. Does the purchase price/loan amount 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

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 by releases? For example, (a) Do you know the past uses of the property? (d.) Do you know of any environmental cleanups that have taken place at the property?

no

6. As the user of this ESA, 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?

no

ASTM E1527-13 USER QUESTIONNAIRE

The following are yes / no questions. As part of this study, which of the following are you providing?

- 1. Previous environmental site assessment reports *n/a*
- 2. Environmental compliance audit reports *n/a*
- 3. Environmental permits (including but not limited to solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits) *n/a*
- 4. Registrations for underground and aboveground storage tanks *n/a*
- 5. Registrations for underground injection systems *n/a*
- 6. Material safety data sheets *n/a*
- 7. Community Right-to-Know plan *n/a*
- 8. Safety plans, preparedness and prevention plans, spill prevention, countermeasure, and control plans, etc. *n/a*
- 9. Reports regarding hydrogeologic conditions on the property or surrounding area *n/a*
- 10. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property *n/a*
- 11. Hazardous waste generator notices or reports *n/a*
- 12. Geotechnical studies *n/a*
- 13. Risk assessments *n/a*
- 14. Recorded activity and use limitations (AULs) *n/a*

Please contact us at 919-522-1509 if you have any questions regarding these ASTM requirements.

Please return the completed document to Natural Geodata PLLC via email to josh@naturalgeodata.com

Completed by: Brent Allen

Signature: *Brent Nathan Allen* dotloop verified
02/01/21 9:23 AM EST
QGBE-OEBT-JOOQ-6XOS

Relationship to site
(i.e. lender, purchaser, etc.): seller

Date: 2/1/21

ASTM E1527-13 USER QUESTIONNAIRE

When the "user" (the party for whom the assessment is being prepared) of the Phase I is required to help the environmental professional identify recognized environmental conditions at the property, a "User Questionnaire" is completed by the user to help gather information that may identify recognized environmental conditions at the property.

We ask that you answer the six questions below to the best of your knowledge. We understand that, in some circumstances, you may have little or no information. Still, we encourage you to complete and return the questionnaire as soon as possible. This will allow us to reflect the fact that the Questionnaire was completed when we issue our report as is required.

On the second page of this form is a list of documentation. The E1527-13 Standard requires that the User will ensure that the consultant is made aware that any of these materials exist for a site, and if so, that these documents be provided for the consultant's review. Please indicate whether any of these documents are available, and ensure that Natural Geodata PLLC will either receive copies or be provided an opportunity to review the relevant materials. We appreciate your assistance. If you have any questions, feel free to contact us.

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

2. Are you aware of any Activity and Use Limitations (AUL's), 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? *No*

3. As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? *No*

4. Does the purchase price/loan amount 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?

N/A - THIS IS A DONATION

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 by releases? For example, (a) Do you know the past uses of the property? (d.) Do you know of any environmental cleanups that have taken place at the property?

See ADDENDUM

6. As the user of this ESA, 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?

SEE ADDENDUM

ASTM E1527-13 USER QUESTIONNAIRE

The following are yes / no questions. As part of this study, which of the following are you providing?

- 1. Previous environmental site assessment reports *No*
- 2. Environmental compliance audit reports *No*
- 3. Environmental permits (including but not limited to solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits) *No*
- 4. Registrations for underground and aboveground storage tanks *No*
- 5. Registrations for underground injection systems *No*
- 6. Material safety data sheets *No*
- 7. Community Right-to-Know plan *No*
- 8. Safety plans, preparedness and prevention plans, spill prevention, countermeasure, and control plans, etc. *No*
- 9. Reports regarding hydrogeologic conditions on the property or surrounding area *No*
- 10. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property *YES*
- 11. Hazardous waste generator notices or reports *No*
- 12. Geotechnical studies *No*
- 13. Risk assessments *No*
- 14. Recorded activity and use limitations (AULs) *No*

Please contact us at 919-522-1509 if you have any questions regarding these ASTM requirements.

Please return the completed document to Natural Geodata PLLC via email to josh@naturalgeodata.com

Completed by:

ALLEN B. DYE

Signature:

[Signature]

Relationship to site

(i.e. lender, purchaser, etc.):

CHAIR, SWANANNOA COMMUNITY COUNCIL (PURCHASER)

Date:

1/29/2021

ASTM E1527 – 13 USER QUESTIONNAIRE ADDENDUM

Page 1 – item 5

Referring to the file TUCOSEEGEE SURVEY FEB 2019

Lot 6 pin # 969923973400000

Lot 7 pin # 969923983800000

These two lots which border our proposed property were purchased by Haw Creek Holdings in December of 2018. Haw Creek Holdings owns several companies in the construction and paving fields including Appalachian Paving & Concrete, Inc. of 200 Melody Circle, Swannanoa, NC 28778. After purchasing the property they were granted a permit by the Army Corps of Engineers to alter the wetlands on their property, and over several months brought in many loads of rock, gravel, concrete and what appears to be asphalt. There is at least one PVC drain that emerges from the now higher ground level of their property and drains into the creek on the north-western edge of our proposed parcel. This landfill / construction debris may well be benign, but since it is a major change to the area it bears pointing out.

Page 1 – item 6

In walking the proposed parcel I have notice two things in the boggy area just east of the kudzu field. At times I have noticed a rainbow sheen of oil on the surface of the wet ground. Not a large pooling of material, but definitely something appearing to be petroleum on the surface in isolated patches. Also in the area I have noticed patches of rust colored silt that stands apart from the background material. Again, not large deposits of material, but something that is noticeable as being of different character.



Josh Feierstein <josh@naturalgeodata.com>

99999 Hawthorne Ave Phase 1

6 messages

Josh Feierstein <josh@naturalgeodata.com>
To: Laura Love Uherka <laurauherka@gmail.com>

Thu, Jan 28, 2021 at 3:05 PM

Hey Laura,

Happy to be working together, below are a few things we'll need to get started.

1. The legal name of the prospective purchaser of the land (i.e. Grovemont Collective) along with the best person to answer the User Questionnaire below (possibly the treasurer, or yourself, whoever will be financially approving the transaction is generally who I use for this but it can be anyone associated with the legal purchaser).
2. The current legal owner of the property to be purchased (and contact info). They'll also need to complete a copy of the User Questionnaire.

I'll go ahead and order the EDR (Electronic Data Report, searches for everything from Environmental Liens to historic insurance maps). I've already talked to Allen and let him know when we'll be on site, Wednesday from 1pm - 5pm. I ask for payment prior to releasing the final report. Looking forward to this project, and exploring Grovemont on Wednesday!

Best,
Josh--
Josh Feierstein, PG
Founder
Natural Geodata PLLC(828) 278-7498 | www.naturalgeodata.com**Phase 1 User Questionnaire.pdf**

71K

Laura Love Uherka <laurauherka@gmail.com>
To: Allen Dye <adye@thecrestcenter.com>, Josh Feierstein <josh@naturalgeodata.com>

Thu, Jan 28, 2021 at 5:52 PM

Hey Allen and Josh,
Josh, I am handing this over to Allen at this point....
Allen, please see below....

[Quoted text hidden]

--
Laura*P.S. Our business is built on word of mouth. I appreciate you sharing my name with friends and relatives.***Laura Uherka**
828-747-9883**kw** PROFESSIONALS

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Phase 1 User Questionnaire.pdf

71K

Allen Dye <adye@thecrestcenter.com>
Reply-To: adye@thecrestcenter.com
To: Josh Feierstein <josh@naturalgeodata.com>

Thu, Jan 28, 2021 at 6:16 PM

Hi Josh,

The legal name of the purchaser of the land is:

Swannanoa Community Council, Inc.

For the questionnaire, payment and all other issues related to this process I will be your contact.

My contact information is:

Allen B. Dye

Chair, Swannanoa Community Council

[213 Summer Street](#)

[Swannanoa, NC 28778](#)

828-275-1183

adye@thecrestcenter.com

The current legal owner of the property is:

Brent Allen

828-777-5458

brent@theallenteamasheville.com

I will let him know what to expect. Shall I forward him the questionnaire or is that something you do?

I will return my questionnaire to you in the morning as well as a few additional documents that you may find helpful.

Thank you Josh. Looking forward to watching this unfold!

Allen

[Quoted text hidden]

Josh Feierstein <josh@naturalgeodata.com>
To: adye@thecrestcenter.com

Fri, Jan 29, 2021 at 10:44 AM

Thanks Allen! If you don't mind sending the questionnaire along to Brent that would be very helpful. If either of you have any questions before I see you Wednesday don't hesitate to reach out, my company line is below and my direct line is 919-522-1509.

[Quoted text hidden]

Allen Dye <adye@thecrestcenter.com>
Reply-To: adye@thecrestcenter.com
To: Josh Feierstein <josh@naturalgeodata.com>

Fri, Jan 29, 2021 at 12:57 PM

Josh,

I have sent the questionnaire to Brent, along with your contact information.

Attached is my completed questionnaire.

I have also shared a folder with you on Dropbox that contains more files that may be of interest to you regarding the property in question.

Thanks again, and I look forward to seeing you on Wednesday.

Allen Dye

[Quoted text hidden]

 **ASTM E1527-13 USER QUESTIONNAIRE.pdf**
747K

Allen Dye <adye@thecrestcenter.com>
Reply-To: adye@thecrestcenter.com
To: Brent Allen <brent@theallenteamasheville.com>
Cc: Josh Feierstein <josh@naturalgeodata.com>

Fri, Jan 29, 2021 at 1:19 PM

Brent,

2/8/2021

Natural Geodata PLLC Mail - 99999 Hawthorne Ave Phase 1

As part of our due diligence on the lot at 99999 Hawthorne we are undergoing a Phase1 Environmental Assessment.

This assessment is being conducted by Josh Feierstein of Natural Geodata and involves, among other things, research into the history and past uses of the property.

Josh has asked that you fill out the attached questionnaire and return it by email to josh@naturalgeodata.com.

Also, Josh will be conducting a site visit this coming Wednesday Feb 3 between 1:00 and 5:00 pm.

I hope this finds you well, and please let me know if you have any questions about this.

All the best,

Allen Dye

[Quoted text hidden]



Phase 1 User Questionnaire.pdf

71K



Josh Feierstein <josh@naturalgeodata.com>

Phase 1 Questionnaire

2 messages

Hannah Smestad <admin@theallenteamasheville.com>
To: adye@thecrestcenter.com, josh@naturalgeodata.com
Cc: Brent Allen <brent@theallenteamasheville.com>

Mon, Feb 1, 2021 at 9:25 AM

Hi Allen and Josh,

Please find attached the signed Phase 1 Questionnaire from Brent Allen and please confirm receipt.

Best,
Hannah

--
--

Hannah Smestad
The Allen Team Assistant
Keller Williams Realty
Office: (828) 771-2396
Text: (828)214-5007



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 **SKM_C30821020109430 (version 2).pdf**
182K

Josh Feierstein <josh@naturalgeodata.com>
To: Hannah Smestad <admin@theallenteamasheville.com>
Cc: adye@thecrestcenter.com, Brent Allen <brent@theallenteamasheville.com>

Mon, Feb 1, 2021 at 9:32 AM

Hey Hannah,

Happy Monday, I have received the questionnaire and it looks great. Thanks for getting this back to us quickly, it's much appreciated!

Best,
Josh

[Quoted text hidden]

--

Josh Feierstein, PG
Founder
Natural Geodata PLLC

(828) 278-7498 | www.naturalgeodata.com



Josh Feierstein <josh@naturalgeodata.com>

Inc#22037 Redmon's Texaco

1 message

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Mon, Feb 1, 2021 at 4:04 PM

Josh,

Attached is the entire file for Inc#22037.

I believe this should fulfill this specific request. Please let me know if you have any questions.

Thanks

Caroline



Caroline LaFond
Regional Supervisor, DWM, UST Section, Asheville Regional Office
North Carolina Department of Environmental Quality
828.296.4500 (Main Office)
caroline.lafond@ncdenr.gov

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Ryals, Scott <scott.ryals@ncdenr.gov>
Sent: Monday, February 01, 2021 9:51 AM
To: Josh Feierstein <josh@naturalgeodata.com>
Cc: LaFond, Caroline <caroline.lafond@ncdenr.gov>
Subject: RE: [External] LUST TRUST incident files

Hi Josh,

You will need to contact our Asheville regional Office for this information as I do not have it here. I have copied the regional supervisor.

From: Josh Feierstein <josh@naturalgeodata.com>
Sent: Monday, February 1, 2021 9:07 AM

To: Ryals, Scott <scott.ryals@ncdenr.gov>

Subject: [External] LUST TRUST incident files

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [Report Spam](#).

Hey Scott,

Hope you're having a good new year, need all files related to a few LUST TRUST incidents:

1) (No laserfiche available)

Name: Cote Property (Loretta)

Address: [222 Alexander Ave, Swannanoa, NC 28778](#)

UST #: AS-3975

Incident #: 41084

2) (No laserfiche available)

Name: Fred Moody Residence

Address: [409 Wilson Ave, Swannanoa, NC 28778](#)

Incident / Site ID: 13746

(This same incident number is also linked to a LUST entry at [407 Wilson Ave](#) with similar information, I believe it is the precursor incident to the trusts involvement)

3) (No laserfiche available)

Name: Jerry Robinson Residence

Address: [509 Wilson Ave, Swannanoa, NC 28778](#)

UST #: AS-3313

Incident #: 28476

4) (No laserfiche available)

Name: Redmon's Texaco

Address: 434 Hw 70, Swannanoa, NC 28878

Facility ID: 0-034140

UST #: AS-1871

Incident #: 22037

5) (No laserfiche available)

Name: Mcnees (Connie) Property

Address: 144 East Wood Avenue, Swannanoa, NC 28878

Site ID: 41343

Apologies about the long list of sites, this is for a possible community park and I want to make sure we have every piece of information regarding surrounding properties and their potential GW impact.

Best,

Josh

--

Josh Feierstein, PG
Founder

Natural Geodata PLLC

(828) 278-7498 | www.naturalgeodata.com

7 attachments

 **AS-1871_22037_CA_LSA_20000630.pdf**
2669K

 **AS-1871_22037_CA_CLO_20000303.pdf**
1420K

 **AS-1871_22037_M_C_20000113.pdf**
21K

 **AS-1871_22037_G_NORR_20000413_LSA.pdf**
183K

 **AS-1871_22037_CA_UST-61_20000710.pdf**
396K

 **AS-1871_22037_G_NORR_20001030_LSA2.pdf**
82K

 **AS-1871_22037_M_ESA_19991116.pdf**
694K



Josh Feierstein <josh@naturalgeodata.com>

Inc#28476

1 message

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Mon, Feb 1, 2021 at 3:56 PM

Josh,

Attached is the entire file for Inc#28476.

Thanks

Caroline



Caroline LaFond
Regional Supervisor, DWM, UST Section, Asheville Regional Office
North Carolina Department of Environmental Quality
828.296.4500 (Main Office)
caroline.lafond@ncdenr.gov

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Ryals, Scott <scott.ryals@ncdenr.gov>
Sent: Monday, February 01, 2021 9:51 AM
To: Josh Feierstein <josh@naturalgeodata.com>
Cc: LaFond, Caroline <caroline.lafond@ncdenr.gov>
Subject: RE: [External] LUST TRUST incident files

Hi Josh,

You will need to contact our Asheville regional Office for this information as I do not have it here. I have copied the regional supervisor.

From: Josh Feierstein <josh@naturalgeodata.com>
Sent: Monday, February 1, 2021 9:07 AM
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Address: [222 Alexander Ave, Swannanoa, NC 28778](#)

UST #: AS-3975

Incident #: 41084

2) (No laserfiche available)

Name: Fred Moody Residence

Address: [409 Wilson Ave, Swannanoa, NC 28778](#)

Incident / Site ID: 13746

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3) (No laserfiche available)

Name: Jerry Robinson Residence

Address: [509 Wilson Ave, Swannanoa, NC 28778](#)

UST #: AS-3313

Incident #: 28476

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Name: Redmon's Texaco

Address: 434 Hw 70, Swannanoa, NC 28878

Facility ID: 0-034140

UST #: AS-1871

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Name: Mcnees (Connie) Property

Address: 144 East Wood Avenue, Swannanoa, NC 28878

Site ID: 41343

Apologies about the long list of sites, this is for a possible community park and I want to make sure we have every piece of information regarding surrounding properties and their potential GW impact.

Best,

Josh

--

Josh Feierstein, PG
Founder

Natural Geodata PLLC

(828) 278-7498 | www.naturalgeodata.com

5 attachments

 **AS-3313_28476_G_NORR_20071210_Ack.pdf**
53K

 **AS-3313_28476_CA_UST-61_20061218.pdf**
141K

 **AS-3313_28476_CA_20-DAY_20070206.pdf**
1430K

 **AS-3313_28476_CA_LSA_20071205.pdf**
1112K

 **AS-3313_28476_G_NORR_20070104_Ack.pdf**
55K



Josh Feierstein <josh@naturalgeodata.com>

Inc#41084 Cote Property

1 message

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Mon, Feb 1, 2021 at 3:49 PM

Josh,

Attached is the entire file for Inc#41084.

Thanks

Caroline



Caroline LaFond
Regional Supervisor, DWM, UST Section, Asheville Regional Office
North Carolina Department of Environmental Quality
828.296.4500 (Main Office)
caroline.lafond@ncdenr.gov

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Ryals, Scott <scott.ryals@ncdenr.gov>
Sent: Monday, February 01, 2021 9:51 AM
To: Josh Feierstein <josh@naturalgeodata.com>
Cc: LaFond, Caroline <caroline.lafond@ncdenr.gov>
Subject: RE: [External] LUST TRUST incident files

Hi Josh,

You will need to contact our Asheville regional Office for this information as I do not have it here. I have copied the regional supervisor.

From: Josh Feierstein <josh@naturalgeodata.com>
Sent: Monday, February 1, 2021 9:07 AM
To: Ryals, Scott <scott.ryals@ncdenr.gov>
Subject: [External] LUST TRUST incident files

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [Report Spam](#).

Hey Scott,

Hope you're having a good new year, need all files related to a few LUST TRUST incidents:

1) (No laserfiche available)

Name: Cote Property (Loretta)

Address: [222 Alexander Ave, Swannanoa, NC 28778](#)

UST #: AS-3975

Incident #: 41084

2) (No laserfiche available)

Name: Fred Moody Residence

Address: [409 Wilson Ave, Swannanoa, NC 28778](#)

Incident / Site ID: 13746

(This same incident number is also linked to a LUST entry at [407 Wilson Ave](#) with similar information, I believe it is the precursor incident to the trusts involvement)

3) (No laserfiche available)

Name: Jerry Robinson Residence

Address: [509 Wilson Ave, Swannanoa, NC 28778](#)

UST #: AS-3313

Incident #: 28476

4) (No laserfiche available)

Name: Redmon's Texaco

Address: 434 Hw 70, Swannanoa, NC 28878

Facility ID: 0-034140

UST #: AS-1871

Incident #: 22037

5) (No laserfiche available)

Name: Mcnees (Connie) Property

Address: 144 East Wood Avenue, Swannanoa, NC 28878

Site ID: 41343

Apologies about the long list of sites, this is for a possible community park and I want to make sure we have every piece of information regarding surrounding properties and their potential GW impact.

Best,

Josh

--

Josh Feierstein, PG
Founder

Natural Geodata PLLC

(828) 278-7498 | www.naturalgeodata.com

6 attachments

-  **AS-3975_41084_CA_IAR_20130308.pdf**
1914K
-  **AS-3975_41084_CA_20-DAY20130308.pdf**
468K
-  **AS-3975_41084_G_NORR_20130401_NRP.pdf**
64K
-  **AS-3975_41084_CA_UST-3_20120824.pdf**
57K
-  **AS-3975_41084_CA_UST-61_20130306.pdf**
103K
-  **AS-3975_41084_CA_LSA_20130308.pdf**
1315K



Josh Feierstein <josh@naturalgeodata.com>

LUST TRUST incident files

11 messages

Josh Feierstein <josh@naturalgeodata.com>
To: "Ryals, Scott" <scott.ryals@ncdenr.gov>

Mon, Feb 1, 2021 at 9:06 AM

Hey Scott,

Hope you're having a good new year, need all files related to a few LUST TRUST incidents:

1) (No laserfiche available)

Name: Cote Property (Loretta)
Address: 222 Alexander Ave, Swannanoa, NC 28778
UST #: AS-3975
Incident #: 41084

2) (No laserfiche available)

Name: Fred Moody Residence
Address: 409 Willson Ave, Swannanoa, NC 28778
Incident / Site ID: 13746
(This same incident number is also linked to a LUST entry at 407 Wilson Ave with similar information, I believe it is the precursor incident to the trusts involvement)

3) (No laserfiche available)

Name: Jerry Robinson Residence
Address: 509 Wilson Ave, Swannanoa, NC 28778
UST #: AS-3313
Incident #: 28476

4) (No laserfiche available)

Name: Redmon's Texaco
Address: 434 Hw 70, Swannanoa, NC 28878
Facility ID: 0-034140
UST #: AS-1871
Incident #: 22037

5) (No laserfiche available)

Name: Mcnees (Connie) Property
Address: 144 East Wood Avenue, Swannanoa, NC 28878
Site ID: 41343

Apologies about the long list of sites, this is for a possible community park and I want to make sure we have every piece of information regarding surrounding properties and their potential GW impact.

Best,
Josh--
Josh Feierstein, PG
Founder
Natural Geodata PLLC(828) 278-7498 | www.naturalgeodata.com

Ryals, Scott <scott.ryals@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>
Cc: "LaFond, Caroline" <caroline.lafond@ncdenr.gov>

Mon, Feb 1, 2021 at 9:51 AM

Hi Josh,

You will need to contact our Asheville regional Office for this information as I do not have it here. I have copied the regional supervisor.

From: Josh Feierstein <josh@naturalgeodata.com>
Sent: Monday, February 1, 2021 9:07 AM
To: Ryals, Scott <scott.ryals@ncdenr.gov>
Subject: [External] LUST TRUST incident files

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to **Report Spam**.

[Quoted text hidden]

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Mon, Feb 1, 2021 at 10:16 AM

Josh,

Please find attached the files that are available electronically for Inc#13746.

If you need something specific that is not attached then please let me know.

Thanks

Caroline



Caroline LaFond
Regional Supervisor, DWM, UST Section, Asheville Regional Office
North Carolina Department of Environmental Quality
828.296.4500 (Main Office)
caroline.lafond@ncdenr.gov

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[Quoted text hidden]

7 attachments

-  **AS-1323_13746_M_DENR_19940923_PhoneLogs.pdf**
104K
-  **AS-1323_13746_CA_RPTS_19941012_CSAworkPlan.pdf**
162K
-  **AS-1323_13746_CA_RPTS_19950224_SoilGas.pdf**
296K
-  **AS-1323_13746_CA_SAR_19941024.pdf**
330K
-  **AS-1323_13746_CA_UST-61_19950328.pdf**
253K
-  **AS-1323_13746_G_NORR_19950329_SoilCert.pdf**
86K
-  **AS-1323_13746_G_NORR_19960712.pdf**
30K

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Mon, Feb 1, 2021 at 10:21 AM

Josh,

The remaining incident files are open incidents that are hard copies at the office.

If I have time today while I'm in the office I will see if I can scan them and email to you.

Thanks

Caroline



Caroline LaFond
Regional Supervisor, DWM, UST Section, Asheville Regional Office
North Carolina Department of Environmental Quality
828.296.4500 (Main Office)
caroline.lafond@ncdenr.gov

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From: Ryals, Scott <scott.ryals@ncdenr.gov>
Sent: Monday, February 01, 2021 9:51 AM
To: Josh Feierstein <josh@naturalgeodata.com>
Cc: LaFond, Caroline <caroline.lafond@ncdenr.gov>

[Quoted text hidden]

[Quoted text hidden]

Josh Feierstein <josh@naturalgeodata.com>
To: "Ryals, Scott" <scott.ryals@ncdenr.gov>

Mon, Feb 1, 2021 at 11:55 AM

Thanks much Scott, Caroline is on it.
[Quoted text hidden]

Josh Feierstein <josh@naturalgeodata.com>
To: "LaFond, Caroline" <caroline.lafond@ncdenr.gov>

Mon, Feb 1, 2021 at 12:48 PM

Excellent, thanks for your help Caroline. I left Dan a message about another site that is currently open and is believed to be (by some of the surrounding property owners) the source of some petroleum staining they've seen on site. There was an LSA due in October of 2020, just wondering if a report is working it's way through the system or if the LSA was never done. It's topographically higher and very close to this proposed community park. Info is below:

LAST Database
Name: Zeigler Residence
Address: 101 Hawthorne Ave, Swannanoa, NC 28778
UST #: AS-88467
Incident #: 95808

This is where I'd say I'm happy to do a file review due to the number of sites, but understand you guys may not be allowing that with COVID.

Best,
Josh
[Quoted text hidden]

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>
Cc: "Murphy, Dan" <dan.murphy@ncdenr.gov>

Mon, Feb 1, 2021 at 1:02 PM

Josh,

Attached is the LSA for Dan's site.

I'm working on scanning the documents so I'll email once complete.

Caroline



Caroline LaFond
Regional Supervisor, DWM, UST Section, Asheville Regional Office
North Carolina Department of Environmental Quality
828.296.4500 (Main Office)
caroline.lafond@ncdenr.gov

Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.

[Quoted text hidden]

 **AS-88467_95808_CA_LSA_20201031.pdf**
6955K

Josh Feierstein <josh@naturalgeodata.com>
To: "LaFond, Caroline" <caroline.lafond@ncdenr.gov>

Mon, Feb 1, 2021 at 3:16 PM

Got it, I appreciate that. I spoke with Dan a few minutes ago and he helped point me in the right direction but let me know that Mike retired recently (I believe this was Mike Streeters project). My questions:

1. To have the whole picture, may I please have a copy of the initial site assessment as well (referenced in the NOV)?
2. Has a decision been made with regards to accepting Roberts request for an NFA w NRP for the site? I don't mind talking to him personally about his rationale but want to know your take on it first.

Best,
Josh

[Quoted text hidden]

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Mon, Feb 1, 2021 at 4:10 PM

Josh,

Attached is the entire file for that site.

According to Mike's notes in the database the site could be closed out with an NRP for soil.

Doesn't appear that Groundwater was sampled though.

Thanks

[Quoted text hidden]

7 attachments

 **AS-88467_95808_G_NORR_20201105_.pdf**
36K

 **AS-88467_95808_CA_IAR_20200709.pdf**
5243K

 **AS-88467_95808_CA_LSA_20201031.pdf**
6955K

 **AS-88467_95808_CA_UST-62_20200331.pdf**
239K

 **AS-88467_95808_G_C_20200402.pdf**
200K

 **AS-88467_95808_G_C_20200403.pdf**
84K

 **AS-88467_95808_G_NORR_20200721.pdf**
44K

Josh Feierstein <josh@naturalgeodata.com>
To: "LaFond, Caroline" <caroline.lafond@ncdenr.gov>

Mon, Feb 1, 2021 at 4:55 PM

Thanks for all this Caroline, that makes sense with the bedrock encountered. My client wanted to meet me during the site walk Wednesday and wanted to discuss this incident specifically. I believe there's just two more incidents and that'll do it, Fred Moody (13746) and Mcnees (41343).

Best,

Josh

[Quoted text hidden]

LaFond, Caroline <caroline.lafond@ncdenr.gov>
To: Josh Feierstein <josh@naturalgeodata.com>

Wed, Feb 3, 2021 at 12:38 PM

Hi Josh,

Please find attached the entire file for Inc#41343. It was closed out in 2015.

[Quoted text hidden]

14 attachments



AS-4260-DENR-2015-JUN-25 9p.tif
354K



AS-4260-DENR-2015-JUL-14 2p.tif
80K



AS-4260-DENR-2015-JUN-15 4p.tif
113K



AS-4260-DENR-2015-JUN-22 6p.tif
275K



AS-4260-RP-2015-JUL-09 11p.tif
504K



AS-4260-RP-2015-JUN-21 45p.tif
1754K



AS-4260-RP-2015-MAY-26 5p.tif
188K



AS-4260-RP-2015-MAY-29 17p.tif
550K



AS-4260-RP-2015-MAY-29-2 15p.tif
472K

 41343 McNees LSA GW FA25018 14p.PDF
262K

 41343 McNees LSA GW FA25213 10p.PDF
244K

2/8/2021

Natural Geodata PLLC Mail - LUST TRUST incident files

 **41343 McNees LSA Soil FA25017 22p.PDF**
280K

 **McNees-IAAR-FA24299 92p.pdf**
439K

 **McNees-UST-61 4p.pdf**
1057K

APPENDIX D
REGULATORY DATABASE REPORT



Image Courtesy of NCDOT Aerial Photo Catalog



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(1957)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 1



Image Courtesy of NCDOT Aerial Photo Catalog



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(1962)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 2

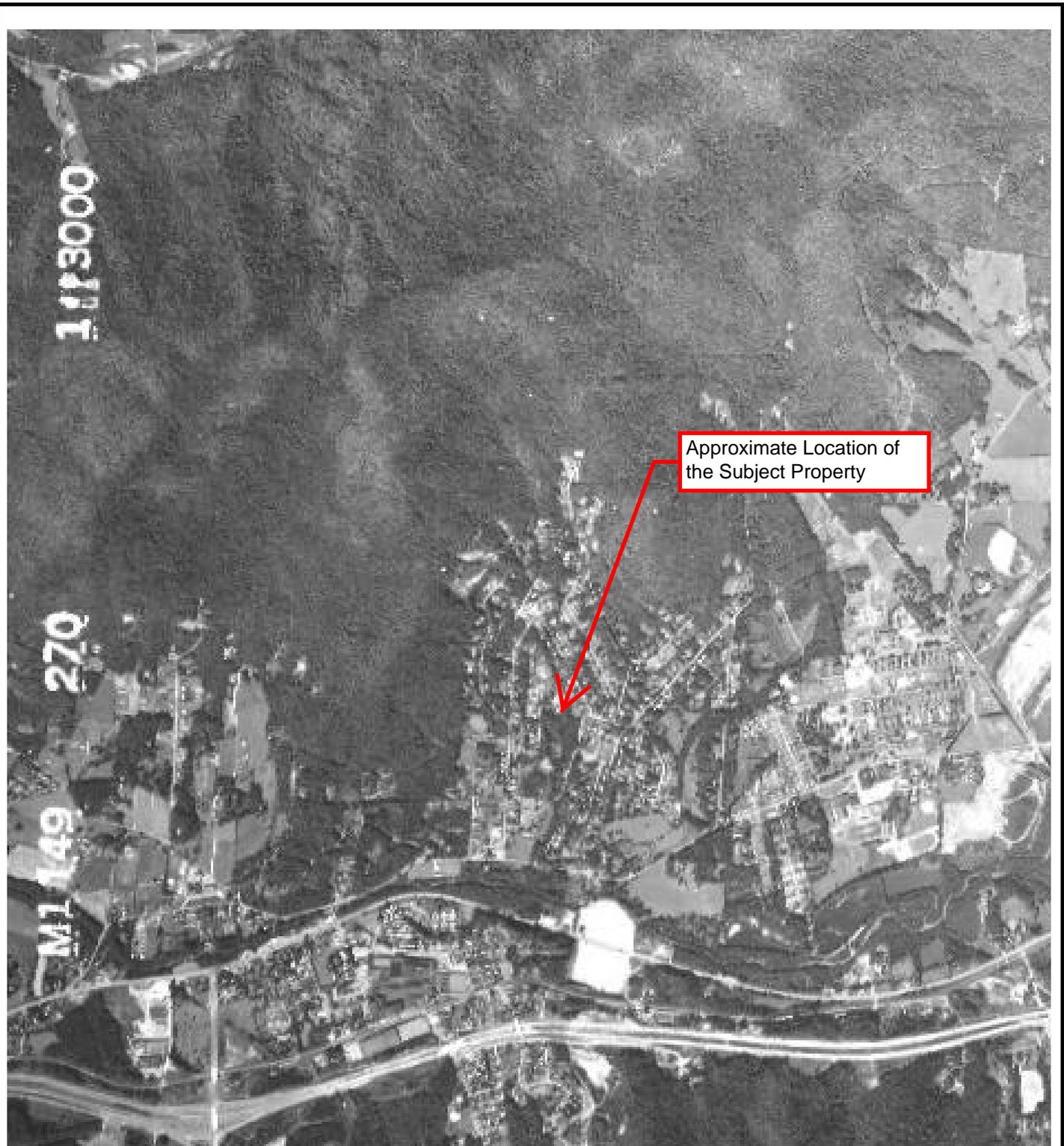


Image Courtesy of NCDOT Aerial Photo Catalog



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(1974)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 3



Image Courtesy of Landsat / Copernicus



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(1985)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 4



Image Courtesy of the USGS



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(1995)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 5



Image Courtesy of Buncombe County GIS



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(2006)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 6

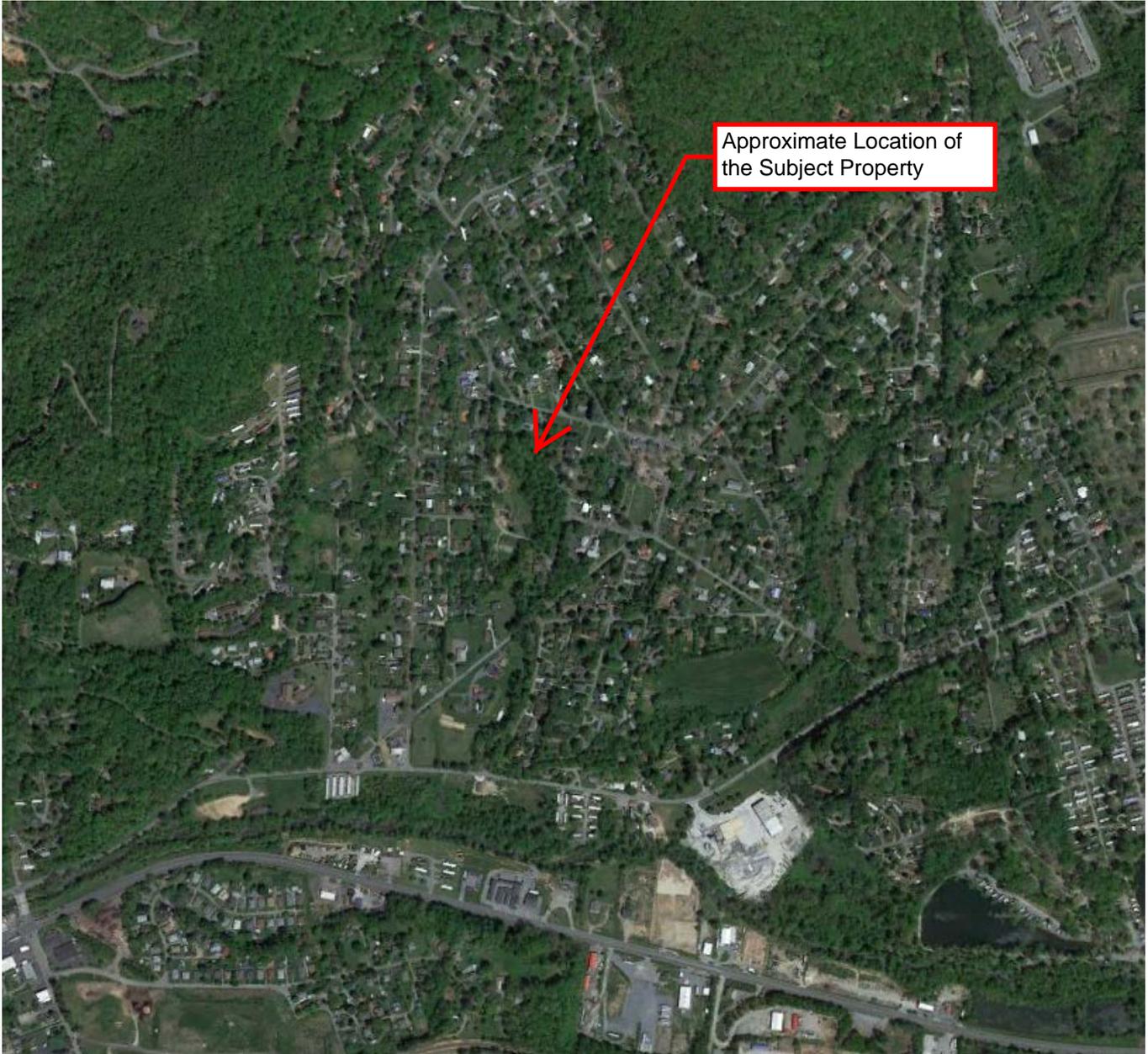


Image Courtesy of Google Earth Pro



Natural Geodata PLLC
58 Pittman Road
Fletcher, NC 28732
(919) 522 1509
www.naturalgeodata.com

Prospective Park - Grovemont
Buncombe County, North Carolina
Historical Aerial Photograph
(2019)

Project: 35020121

Date: 2/3/2021

Drawn By: JRF

Review By: JRF

Figure: 7

Prospective Park - Hawthorne Ave

99999 Hawthorne Ave
Swannanoa, NC 28778

Inquiry Number: 6349287.2s
January 29, 2021

The EDR Radius Map™ Report with GeoCheck®



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

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	54
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

99999 HAWTHORNE AVE
SWANNANOVA, NC 28778

COORDINATES

Latitude (North): 35.6087250 - 35° 36' 31.41"
Longitude (West): 82.3883910 - 82° 23' 18.20"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 374245.5
UTM Y (Meters): 3941239.8
Elevation: 2238 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5948508 OTEEN, NC
Version Date:	2013
Northeast Map:	5948504 MONTREAT, NC
Version Date:	2013
Southeast Map:	5948468 BLACK MOUNTAIN, NC
Version Date:	2013
Northwest Map:	5947755 CRAGGY PINNACLE, NC
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20141009
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
99999 HAWTHORNE AVE
SWANNANOVA, NC 28778

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	SWANNANOVA LDFL		NC HS DS	Same	3551, 0.673, South
Reg	MONEY - WORTH		NC HS DS	Same	4438, 0.841, SE
1	ZEIGLER RESIDENCE	101 HAWTHORNE AVENUE	LAST	Higher	190, 0.036, SW
2	ASAP INC	114 ALEXANDER AVE	EDR Hist Cleaner	Higher	419, 0.079, SSE
3	FISHER RESIDENCE	225 NORTHWEST AVENUE	LAST, IMD	Higher	837, 0.159, North
4	COTE PROPERTY (LORET	222 ALEXANDER AVE	LUST, LUST TRUST, IMD	Higher	1165, 0.221, ESE
A5	FRED MOODY RESIDENCE	407 WILSON AVE	LUST, IMD	Higher	1415, 0.268, North
A6	FRED MOODY RESIDENCE	409 WILSON AVENUE	LUST TRUST	Higher	1447, 0.274, North
7	F AND J 4	501 OLD US HIGHWAY 7	LUST, UST, IMD, Financial Assurance	Lower	1579, 0.299, SW
8	JERRY ROBINSON RESID	509 WILSON AVENUE	LUST, LUST TRUST, IMD	Higher	1864, 0.353, North
9	CAROLINA READY MIX &	606 US HIGHWAY 70	LUST, IMD	Lower	1910, 0.362, SE
B10	REDMON TEXACO	434 HWY 70/P.O. BOX	LUST, IMD	Lower	2021, 0.383, SW
B11	REDMON'S TEXACO	434 HW 70	LUST, LAST, LUST TRUST	Lower	2021, 0.383, SW
C12	MCNEES (CONNIE) PROP	144 EAST WOOD AVENUE	LUST TRUST	Higher	2237, 0.424, ENE
C13	MCNEES (CONNIE) PROP	144 EASTWOOD AVENUE	LUST, INST CONTROL, IMD	Higher	2237, 0.424, ENE
14	JERNIGAN RENTAL HOME	155 EDWARDS AVE.	LAST, IMD	Lower	2379, 0.451, SSW
15	BERRY'S GARDEN CENTE	2573 US HWY 70	LAST	Lower	2476, 0.469, SSE
16	BEACON MANUFACTURING	2425 US HWY 70	SHWS	Lower	3485, 0.660, SW
17	MOORE GENERAL HOSP		FUDS	Higher	3579, 0.678, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

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

Federal ERNS list

ERNS..... Emergency Response Notification System

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

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

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

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 voluntary cleanup sites

VCP..... Responsible Party Voluntary Action Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields 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
HIST LF..... Solid Waste Facility Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
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

EXECUTIVE SUMMARY

Records of Emergency Release Reports

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

EXECUTIVE SUMMARY

SEPT HAULERS..... Permitted Septage Haulers Listing
MINES MRDS..... Mineral Resources Data System
CCB..... Coal Ash Structural Fills (CCB) Listing
PCSRP..... Petroleum-Contaminated Soil Remediation Permits

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

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

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

NC HSDS: The Hazardous Substance Disposal Sites list contains locations of uncontrolled and unregulated hazardous waste sites. The file contains sites on the national priority list as well as the state priority list. The data source is the North Carolina Center for Geographic Information and Analysis.

A review of the NC HSDS list, as provided by EDR, and dated 08/09/2011 has revealed that there are 2 NC HSDS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SWANNANOVA LDFL		S 1/2 - 1 (0.673 mi.)	0	8
MONEY - WORTH		SE 1/2 - 1 (0.841 mi.)	0	8

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites 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. The data come from the Department of Environment & Natural Resources' Inactive Hazardous Sites Program.

A review of the SHWS list, as provided by EDR, and dated 09/04/2020 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BEACON MANUFACTURING Facility Id: NCN000407672	2425 US HWY 70	SW 1/2 - 1 (0.660 mi.)	16	52

State and tribal leaking storage tank lists

LAST: A listing of leaking aboveground storage tank site locations.

A review of the LAST list, as provided by EDR, and dated 10/30/2020 has revealed that there are 5 LAST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ZEIGLER RESIDENCE Incident Number: 95808	101 HAWTHORNE AVENUE	SW 0 - 1/8 (0.036 mi.)	1	8
FISHER RESIDENCE Close Out: 11/15/2017 Incident Number: 86933 Current Status: C	225 NORTHWEST AVENUE	N 1/8 - 1/4 (0.159 mi.)	3	10
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
REDMON'S TEXACO Close Out: 03/21/2000 Incident Number: 85632 Current Status: A	434 HW 70	SW 1/4 - 1/2 (0.383 mi.)	B11	40
JERNIGAN RENTAL HOME Incident Number: 19484 Current Status: C	155 EDWARDS AVE.	SSW 1/4 - 1/2 (0.451 mi.)	14	47
BERRY'S GARDEN CENTE Incident Number: 89261 Current Status: C	2573 US HWY 70	SSE 1/4 - 1/2 (0.469 mi.)	15	50

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 10/30/2020 has revealed that there are 8

EXECUTIVE SUMMARY

LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COTE PROPERTY (LORET) Product Type: PETROLEUM Incident Number: 41084 Current Status: File Located in House	222 ALEXANDER AVE	ESE 1/8 - 1/4 (0.221 mi.)	4	13
FRED MOODY RESIDENCE Incident Phase: Response Product Type: PETROLEUM Incident Number: 13746 Current Status: File Located in House	407 WILSON AVE	N 1/4 - 1/2 (0.268 mi.)	A5	16
JERRY ROBINSON RESID Product Type: PETROLEUM Incident Number: 28476 Current Status: File Located in House	509 WILSON AVENUE	N 1/4 - 1/2 (0.353 mi.)	8	30
MCNEES (CONNIE) PROP Incident Phase: Closed Out Product Type: PETROLEUM Incident Number: 41343 Current Status: File Located in Archives	144 EASTWOOD AVENUE	ENE 1/4 - 1/2 (0.424 mi.)	C13	44
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
F AND J 4 Incident Phase: Closed Out Product Type: PETROLEUM Incident Number: 28674 Incident Number: 9700 Current Status: File Located in Archives Current Status: File Located in House	501 OLD US HIGHWAY 7	SW 1/4 - 1/2 (0.299 mi.)	7	21
CAROLINA READY MIX & Incident Phase: Closed Out Product Type: PETROLEUM Incident Number: 41571 Current Status: File Located in Archives	606 US HIGHWAY 70	SE 1/4 - 1/2 (0.362 mi.)	9	33
REDMON TEXACO Incident Phase: Closed Out Product Type: PETROLEUM Incident Number: 12227 Current Status: File Located in House	434 HWY 70/P.O. BOX	SW 1/4 - 1/2 (0.383 mi.)	B10	36
REDMON'S TEXACO Incident Phase: Response Product Type: PETROLEUM Incident Number: 22037 Current Status: File Located in House	434 HW 70	SW 1/4 - 1/2 (0.383 mi.)	B11	40

EXECUTIVE SUMMARY

LUST TRUST: This database contains information about claims against the State Trust Funds for reimbursements for expenses incurred while remediating Leaking USTs.

A review of the LUST TRUST list, as provided by EDR, and dated 10/02/2020 has revealed that there are 5 LUST TRUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COTE PROPERTY (LORET) Site ID: 41084	222 ALEXANDER AVE	ESE 1/8 - 1/4 (0.221 mi.)	4	13
FRED MOODY RESIDENCE Site ID: 13746	409 WILSON AVENUE	N 1/4 - 1/2 (0.274 mi.)	A6	20
JERRY ROBINSON RESID Site ID: 28476	509 WILSON AVENUE	N 1/4 - 1/2 (0.353 mi.)	8	30
MCNEES (CONNIE) PROP Site ID: 41343	144 EAST WOOD AVENUE	ENE 1/4 - 1/2 (0.424 mi.)	C12	43
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
REDMON'S TEXACO Site ID: 22037	434 HW 70	SW 1/4 - 1/2 (0.383 mi.)	B11	40

State and tribal institutional control / engineering control registries

INST CONTROL: No Further Action Sites With Land Use Restrictions Monitoring.

A review of the INST CONTROL list, as provided by EDR, and dated 09/04/2020 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MCNEES (CONNIE) PROP	144 EASTWOOD AVENUE	ENE 1/4 - 1/2 (0.424 mi.)	C13	44

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

IMD: Incident Management Database.

A review of the IMD list, as provided by EDR, and dated 10/30/2020 has revealed that there are 9 IMD sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FISHER RESIDENCE Facility Id: 86933	225 NORTHWEST AVENUE	N 1/8 - 1/4 (0.159 mi.)	3	10
COTE PROPERTY (LORET) Facility Id: 41084	222 ALEXANDER AVE	ESE 1/8 - 1/4 (0.221 mi.)	4	13
FRED MOODY RESIDENCE	407 WILSON AVE	N 1/4 - 1/2 (0.268 mi.)	A5	16

EXECUTIVE SUMMARY

Facility Id: 13746				
JERRY ROBINSON RESID	509 WILSON AVENUE	N 1/4 - 1/2 (0.353 mi.)	8	30
Facility Id: 28476				
MCNEES (CONNIE) PROP	144 EASTWOOD AVENUE	ENE 1/4 - 1/2 (0.424 mi.)	C13	44
Facility Id: 41343				
Lower Elevation	Address	Direction / Distance	Map ID	Page
F AND J 4	501 OLD US HIGHWAY 7	SW 1/4 - 1/2 (0.299 mi.)	7	21
Facility Id: 9700				
Facility Id: 28674				
CAROLINA READY MIX &	606 US HIGHWAY 70	SE 1/4 - 1/2 (0.362 mi.)	9	33
Facility Id: 41571				
REDMON TEXACO	434 HWY 70/P.O. BOX	SW 1/4 - 1/2 (0.383 mi.)	B10	36
Facility Id: 12227				
JERNIGAN RENTAL HOME	155 EDWARDS AVE.	SSW 1/4 - 1/2 (0.451 mi.)	14	47
Facility Id: 19484				

Other Ascertainable Records

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 09/29/2020 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOORE GENERAL HOSP		ENE 1/2 - 1 (0.678 mi.)	17	52

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

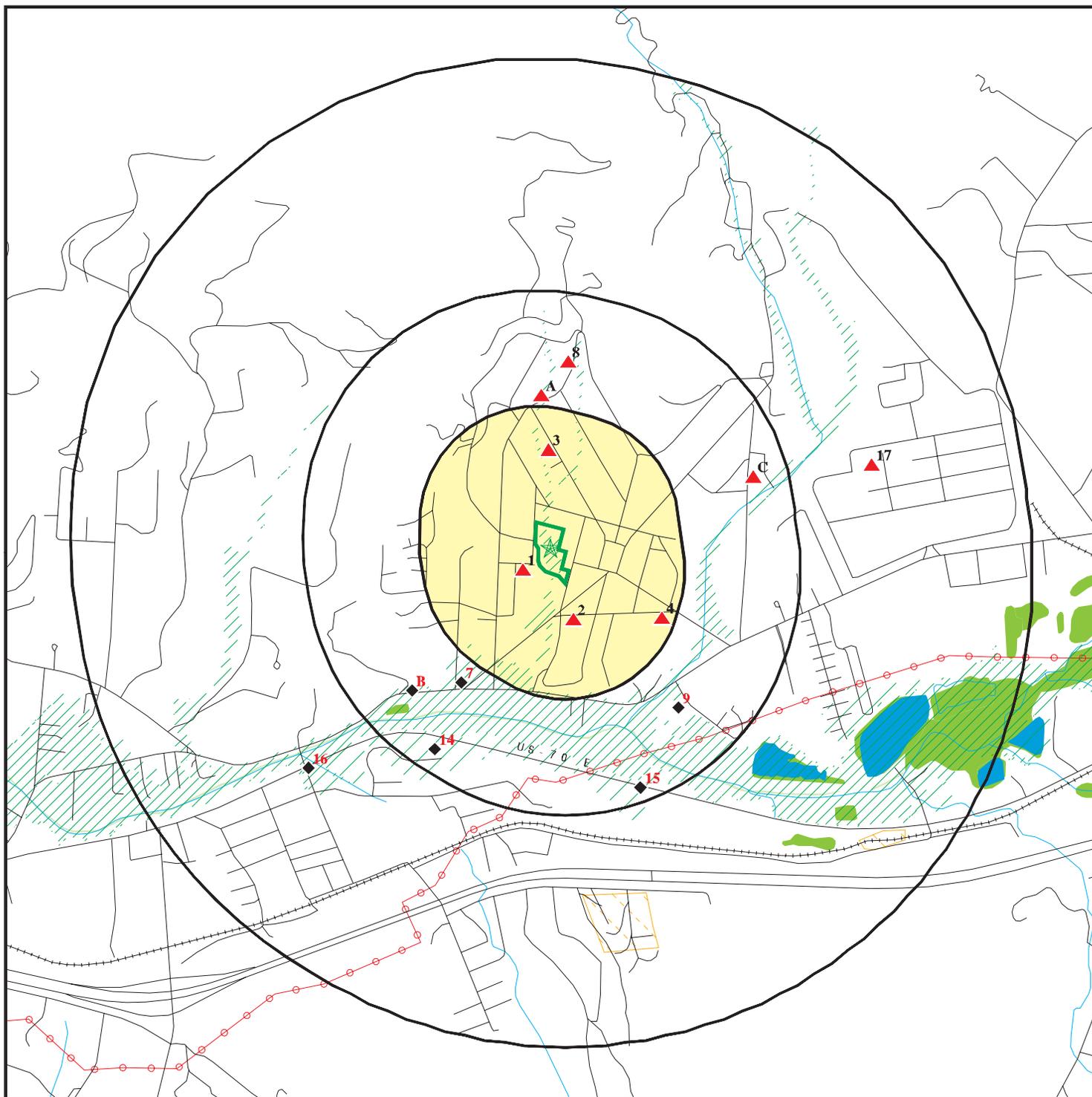
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ASAP INC	114 ALEXANDER AVE	SSE 0 - 1/8 (0.079 mi.)	2	10

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
SWANNANOVA DJJDP PROPERTY MONEY-WORTH, INC.	SHWS OLI

OVERVIEW MAP - 6349287.2S



Target Property

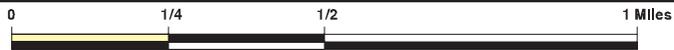
Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites



Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Hazardous Substance Disposal Sites

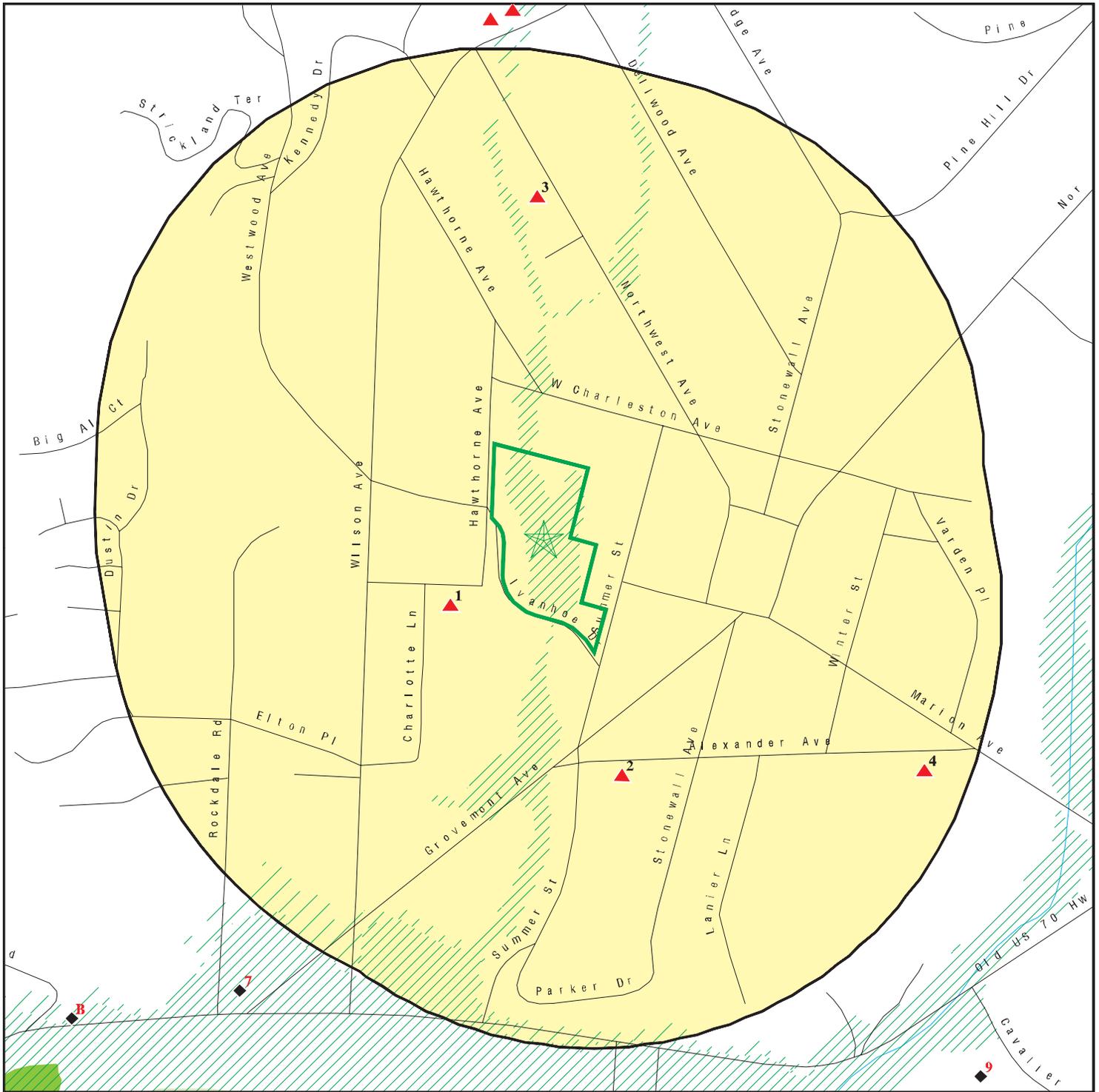


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Prospective Park - Hawthorne Ave
 ADDRESS: 99999 Hawthorne Ave
 Swannanoa NC 28778
 LAT/LONG: 35.608725 / 82.388391

CLIENT: Natural Geodata, PLLC
 CONTACT: Josh Feierstein
 INQUIRY #: 6349287.2s
 DATE: January 29, 2021 1:50 pm

DETAIL MAP - 6349287.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

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: Prospective Park - Hawthorne Ave
 ADDRESS: 99999 Hawthorne Ave
 Swannanoa NC 28778
 LAT/LONG: 35.608725 / 82.388391

CLIENT: Natural Geodata, PLLC
 CONTACT: Josh Feierstein
 INQUIRY #: 6349287.2S
 DATE: January 29, 2021 1:53 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
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</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>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</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	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
NC HSDS	1.000		0	0	0	2	NR	2
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	1	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
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

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
<i>State and tribal leaking storage tank lists</i>								
LAST	0.500		1	1	3	NR	NR	5
LUST	0.500		0	1	7	NR	NR	8
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	1	4	NR	NR	5
<i>State and tribal registered storage tank lists</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	1	NR	NR	1
<i>State and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields 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
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	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	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
IMD	0.500		0	2	7	NR	NR	9

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 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	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	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
AOP	TP		NR	NR	NR	NR	NR	0
SEPT HAULERS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	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
CCB	0.500		0	0	0	NR	NR	0
PCSRP	0.500		0	0	0	NR	NR	0
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
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		1	NR	NR	NR	NR	1
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	2	5	22	4	0	33

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

HSDS
Region
South
1/2-1
3551 ft.

SWANNANOA LDFL
, NC

NC HSDS **S102442542**
N/A

HSDS:
Name: SWANNANOA LDFL
Address: Not reported
City: Not reported
Site Type: 1
Superfun Number: Not reported
Total area in coverage units: 40483.625
Total perimeter in coverage units: 819.37927246
X-value coordinate in feet: 993642.3125
Y-value coordinate in feet: 689379.125
Sites designated as superfund cleanup sites: 422
Length of feature in internal units: 819.379165018
Area of feature in internal units squared: 40483.61199

HSDS
Region
SE
1/2-1
4438 ft.

MONEY - WORTH
, NC

NC HSDS **S102442541**
N/A

HSDS:
Name: MONEY - WORTH
Address: Not reported
City: Not reported
Site Type: 1
Superfun Number: Not reported
Total area in coverage units: 6969.85986328
Total perimeter in coverage units: 378.41638183
X-value coordinate in feet: 996639.5
Y-value coordinate in feet: 690188.625
Sites designated as superfund cleanup sites: 420
Length of feature in internal units: 378.416368479
Area of feature in internal units squared: 6969.85642807

1
SW
< 1/8
0.036 mi.
190 ft.

ZEIGLER RESIDENCE
101 HAWTHORNE AVENUE
SWANNANOA, NC 28778

LAST **S126349787**
N/A

Relative:
Higher
Actual:
2262 ft.

LAST:
Name: ZEIGLER RESIDENCE
Address: 101 HAWTHORNE AVENUE
City, State, Zip: SWANNANOA, NC 28778
Facility ID: Not reported
UST Number: AS-88467
Incident Number: 95808
Contamination Type: SL
Source Type: 21
Product Type: P
Date Reported: 03/24/2020
Date Occur: 03/24/2020

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZEIGLER RESIDENCE (Continued)

S126349787

Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: N
Of Supply Wells: 0
Commercial/NonCommercial UST Site: N
Risk Classification: U
Risk Class Based On Review: U
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: 2
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: No
Flag: Yes
Flag1: Not reported
LUR Filed: Not reported
Release Detection: Not reported
Current Status: Not reported
RBCA GW: Not reported
PETOPT: 4
RPL: True
CD Num: Not reported
Reel Num: Not reported
RPOW: True
RPOP: True
Error Flag: Not reported
Error Code: N
Valid: False
Lat/Long: Not reported
Lat/Long Decimal: 35.60796 -82.38946
Testlat: Not reported
Regional Officer Project Mgr: MES
Region: ASH
Company: Not reported
Contact Person: Carl & Sharon Zeigler
Telephone: 8283012529
RP Address: 101 Hawthorne Drive
RP City,St,Zip: Swannanoa, NC 28778
RP County: Not reported
Comments: Leak from piping for two 550-gal ASTs manifolded together. Appears to be ongoing for some time. LSA required (no monitoring well or groundwater sampling required). Due October 31, 2020.
5 Min Quad: Not reported
PIRF:
Facility Id: 95808
Date Occurred: Not reported
Date Reported: Not reported
Description Of Incident: Leak from piping for two 550-gal ASTs manifolded together. Appears to be ongoing for some time
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ZEIGLER RESIDENCE (Continued)

S126349787

Type:	4
Location:	7
Site Priority:	Not reported
Priority Update:	Not reported
Wells Affected Y/N:	N
Wells Affected Number:	Not reported
Samples Taken By:	Y
Samples Include:	Not reported
7#5 Min Quad:	Not reported
5 Min Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	4
Cause:	4
Source:	B
Source Type:	P
Last Modified:	Not reported
Incident Phase:	Not reported
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

2
SSE
 < 1/8
 0.079 mi.
 419 ft.

ASAP INC
114 ALEXANDER AVE
SWANNANOVA, NC 28778

EDR Hist Cleaner **1019931946**
 N/A

Relative:
Higher

EDR Hist Cleaner

Actual:
2240 ft.

Year:	Name:
1994	ASAP INC
1995	ASAP INC

Type:
Drycleaning Plants, Except Rugs
Drycleaning Plants, Except Rugs

3
North
 1/8-1/4
 0.159 mi.
 837 ft.

FISHER RESIDENCE
225 NORTHWEST AVENUE
SWANNANOVA, NC 28778

LAST **S106349493**
IMD **N/A**

Relative:
Higher

LAST:	
Name:	FISHER RESIDENCE
Address:	225 NORTHWEST AVENUE
City,State,Zip:	SWANNANOVA, NC 28778
Facility ID:	Not reported
UST Number:	AS-86933
Incident Number:	86933
Contamination Type:	SL
Source Type:	1

Actual:
2283 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FISHER RESIDENCE (Continued)

S106349493

Product Type: P
Date Reported: 04/17/2000
Date Occur: 04/17/2000
Cleanup: Not reported
Closure Request: Not reported
Close Out: 11/15/2017
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Not reported
Of Supply Wells: 0
Commercial/NonCommercial UST Site: Not reported
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 60
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: Yes
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: C
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long: Not reported
Lat/Long Decimal: 35.61118 -82.38766
Testlat: Not reported
Regional Officer Project Mgr: JCA
Region: ASH
Company: Not reported
Contact Person: Unknown Unknown
Telephone: Not reported
RP Address: Not reported
RP City,St,Zip: NC
RP County: Not reported
Comments: Diesel like fuel seeps into drain, but no source has been determined
Incident closed out after file review 11/15/2017 see Memo to the file
for more details JCA. ****ALL FILES ON S LASERFICHE FOR
PROCESSING*****
5 Min Quad: Not reported
PIRF:
Facility Id: 86933
Date Occurred: Not reported
Date Reported: Not reported
Description Of Incident: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FISHER RESIDENCE (Continued)

S106349493

Owner/Operator: Not reported
Ownership: 0
Operation Type: 0
Type: Not reported
Location: Not reported
Site Priority: 60E
Priority Update: Not reported
Wells Affected Y/N: Not reported
Wells Affected Number: Not reported
Samples Taken By: Not reported
Samples Include: Not reported
7#5 Min Quad: Not reported
5 Min Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Cause: Not reported
Source: Not reported
Source Type: 0

Last Modified: 11/15/2017
Incident Phase: CO
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

IMD:

Name: FISHER RESIDENCE
Address: 225 NORTHWEST AVENUE
City: SWANNANOA
Region: ASH
Facility ID: 86933
Date Occurred: 4/17/2000
Submit Date: 3/4/2004
GW Contam: No data entered (data entry person submitted a blank field)
Soil Contam: Not reported
Incident Desc: Diesel like fuel seeps into drain, but no source has been determined.
Operator: Unknown, Unknown
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City, St, Zip: NC
Ownership: Not Reported
Operation: Not Reported
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Unknown
Type: Other inorganics
Location: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FISHER RESIDENCE (Continued)

S106349493

Setting: Not reported
 Risk Site: Not reported
 Site Priority: 60
 Priority Code: E
 Priority Update: Not reported
 Dem Contact: QQ
 Wells Affected: No
 Num Affected: Not reported
 Wells Contam: Not reported
 Sampled By: Not reported
 Samples Include: Not reported
 7.5 Min Quad: Not reported
 5 Min Quad: Not reported
 Latitude: Not reported
 Longitude: Not reported
 Latitude Number: Not reported
 Longitude Number: Not reported
 Latitude Decimal: Not reported
 Longitude Decimal: Not reported
 GPS: NOD
 Agency: DWQ
 Facility ID: Not reported
 Last Modified: Not reported
 Incident Phase: Not reported
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Sighned: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: Not reported

4
ESE
1/8-1/4
0.221 mi.
1165 ft.

COTE PROPERTY (LORETTA)
222 ALEXANDER AVE
SWANNANOVA, NC 28778

LUST S113193333
LUST TRUST N/A
IMD

Relative:
Higher
Actual:
2238 ft.

LUST:
 Name: COTE PROPERTY (LORETTA)
 Address: 222 ALEXANDER AVE
 City,State,Zip: SWANNANOVA, NC 28778
 Facility ID: Not reported
 UST Number: AS-3975
 Incident Number: 41084
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 03/06/2013
 Date Occur: 02/05/2013
 Cleanup: 03/06/2013
 Closure Request: Not reported
 Close Out: Not reported
 Level Of Soil Cleanup Achieved: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COTE PROPERTY (LORETTA) (Continued)

S113193333

Tank Regulated Status:	NON REGULATED
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	NON COMMERCIAL
Risk Classification:	U
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
NORR Issue Date:	Not reported
Site Priority:	Not reported
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	No
MTBE1:	Unknown
Flag:	No
Flag1:	No
LUR Filed:	Not reported
Release Detection:	0
Current Status:	File Located in House
RBCA GW:	Not reported
PETOPT:	4
RPL:	False
CD Num:	0
Reel Num:	0
RPOW:	True
RPOP:	False
Error Flag:	0
Error Code:	N
Valid:	False
Lat/Long Decimal:	35.6065 -82.3841
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Region:	ASH
Company:	Not reported
Contact Person:	JACQUIE COTE SUTER POA
Telephone:	Not reported
RP Address:	PO BOX 110296
RP City,St,Zip:	ANCHORAGE, AK 99511
RP County:	Not reported
Comments:	Not reported
5 Min Quad:	Not reported
PIRF:	
Facility Id:	41084
Date Occurred:	2/5/2013
Date Reported:	3/6/2013
Description Of Incident:	A 550 GALLON HEATING OIL UST CAUSED A RELEASE, UST-61 SUBMITTED BY SINGLETON ENV.
Owner/Operator:	Not reported
Ownership:	4
Operation Type:	3
Type:	4
Location:	7
Site Priority:	Not reported
Priority Update:	Not reported
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COTE PROPERTY (LORETTA) (Continued)

S113193333

5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 3
Source: A
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

[Click here to access the North Carolina DEQ records for this facility:](#)

LUST TRUST:

Name: COTE PROPERTY (LORETTA)
Address: 222 ALEXANDER AVE
City,State,Zip: SWANNANOVA, NC
Facility ID: Not reported
Site ID: 41084
Site Note: Noncommercial; 100% eligible; \$0 deductible. Track this as a site that would have been 5K + 10% as this is receiving 100% because of Session Law 2010-154. [CGS 10/22/13]

Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0
Sum 3rd Party Amt Applied: 0

IMD:

Name: COTE PROPERTY (LORETTA)
Address: 222 ALEXANDER AVE
City: SWANNANOVA
Region: Not reported
Facility ID: 41084
Date Occurred: 2013-02-05 00:00:00
Submit Date: 2013-03-06 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: A 550 GALLON HEATING OIL UST CAUSED A RELEASE, UST-61 SUBMITTED BY SINGLETON ENV.

Operator: Not reported
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COTE PROPERTY (LORETTA) (Continued)

S113193333

Operator City: Not reported
Oper City,St,Zip: Not reported
Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Heating Oil
Location: Residence
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: N
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.606524999999998
Longitude: -82.384113999999997
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: Not reported
Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

A5 FRED MOODY RESIDENCE
North 407 WILSON AVE
1/4-1/2 SWANNANOVA, NC 28778
0.268 mi.
1415 ft. Site 1 of 2 in cluster A

LUST S105958752
IMD N/A

Relative: Higher LUST:
Name: FRED MOODY RESIDENCE
Actual: 2319 ft. Address: 407 WILSON AVE
City,State,Zip: SWANNANOVA, NC 28778
Facility ID: Not reported
UST Number: AS-1323

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRED MOODY RESIDENCE (Continued)

S105958752

Incident Number: 13746
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 09/23/1994
Date Occur: 09/22/1994
Cleanup: 09/23/1994
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: NON REGULATED
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 25 E
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long Decimal: 35.6134 -82.3889
Testlat: Not reported
Regional Officer Project Mgr: JCA
Region: ASH
Company: MRS. FRED MOODY
Contact Person: Not reported
Telephone: Not reported
RP Address: 409 WILSON AVENUE
RP City,St,Zip: SWANNANOA, NC 28778
RP County: Not reported
Comments: LOW SITE REVIEW 10/98 CAN NOT CLOSE OUT
5 Min Quad: Not reported

PIRF:

Facility Id: 13746
Date Occurred: 9/22/1994
Date Reported: 4/3/1995
Description Of Incident: RELEASE RESULTING FROM A HOME HEATING OIL TANK.
Owner/Operator: MRS. FRED MOODY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRED MOODY RESIDENCE (Continued)

S105958752

Ownership:	4
Operation Type:	3
Type:	4
Location:	7
Site Priority:	25 E
Priority Update:	4/15/1998
Wells Affected Y/N:	N
Samples Include:	0
7#5 Minute Quad:	3
5 Minute Quad:	2
Pirf/Min Soil:	Not reported
Release Code:	M84Q
Source Code:	Pirf
Err Type:	Not reported
Cause:	Not reported
Source:	Not reported
Ust Number:	Not reported
Last Modified:	Not reported
Incident Phase:	Response
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

[Click here to access the North Carolina DEQ records for this facility:](#)

IMD:

Name:	FRED MOODY RESIDENCE
Address:	407 WILSON AVE
City:	SWANNANOVA
Region:	Not reported
Facility ID:	13746
Date Occurred:	1994-09-22 00:00:00
Submit Date:	1995-04-03 00:00:00
GW Contam:	Not reported
Soil Contam:	Not reported
Incident Desc:	RELEASE RESULTING FROM A HOME HEATING OIL TANK.
Operator:	MRS. FRED MOODY
Contact Phone:	Not reported
Owner Company:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Oper City,St,Zip:	Not reported
Ownership:	Private
Operation:	Residential
Material:	Not reported
Qty Lost 1:	Not reported
Qty Recovered 1:	Not reported
Source:	Not reported
Type:	Heating Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRED MOODY RESIDENCE (Continued)

S105958752

Location: Residence
Setting: Not reported
Risk Site: Not reported
Site Priority: 25 E
Priority Code: Not reported
Priority Update: 1998-04-15 00:00:00
Dem Contact: Not reported
Wells Affected: No
Num Affected: 0
Wells Contam: Not reported
Sampled By: Responsible Parties
Samples Include: Soil Samples
7.5 Min Quad: Not reported
5 Min Quad: M84Q
Latitude: 35.613473599999999
Longitude: -82.388980399999994
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: 13746
Last Modified: Not reported
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Name: FRED MOODY RESIDENCE
Address: 407 WILSON AVE
City: SWANNANOA
Region: ASH
Facility ID: 13746
Date Occurred: 9/22/1994
Submit Date: 4/3/1995
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes
Incident Desc: RELEASE RESULTING FROM A HOME HEATING OIL TANK.
Operator: Not reported
Contact Phone: Not reported
Owner Company: MRS. FRED MOODY
Operator Address: 409 WILSON AVENUE
Operator City: SWANNANOA
Oper City,St,Zip: SWANNANOA, NC 28778-
Ownership: Private
Operation: Residential
Material: HEATING OIL
Qty Lost 1: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FRED MOODY RESIDENCE (Continued)

S105958752

Qty Recovered 1: Not reported
 Source: Leak-underground
 Type: Gasoline/diesel
 Location: Residence
 Setting: Residential
 Risk Site: L
 Site Priority: 25 E
 Priority Code: L
 Priority Update: 4/15/1998
 Dem Contact: JCA
 Wells Affected: No
 Num Affected: 0
 Wells Contam: Not reported
 Sampled By: Responsible Parties
 Samples Include: Soil Samples
 7.5 Min Quad: Not reported
 5 Min Quad: M84Q
 Latitude: 35.60527777
 Longitude: -82.3875
 Latitude Number: 353619
 Longitude Number: 822315
 Latitude Decimal: 35.6052777777778
 Longitude Decimal: 82.3875
 GPS: NOD
 Agency: DWM
 Facility ID: 13746
 Last Modified: Not reported
 Incident Phase: RE
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Sighned: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: Not reported

A6
North
1/4-1/2
0.274 mi.
1447 ft.

FRED MOODY RESIDENCE
409 WILSON AVENUE
SWANNANOVA, NC
Site 2 of 2 in cluster A

LUST TRUST **S101525182**
N/A

Relative:
Higher
Actual:
2321 ft.

LUST TRUST:
 Name: FRED MOODY RESIDENCE
 Address: 409 WILSON AVENUE
 City,State,Zip: SWANNANOVA, NC
 Facility ID: Not reported
 Site ID: 13746
 Site Note: Not reported
 Site Eligible?: True
 Commercial Find: 100% Non-Commercial
 Priority Rank: Low
 Deductable Amount: 0
 3rd Party Deductable Amt: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FRED MOODY RESIDENCE (Continued)

S101525182

Sum 3rd Party Amt Applied: 0

7
SW
1/4-1/2
0.299 mi.
1579 ft.

F AND J 4
501 OLD US HIGHWAY 70
SWANNANOVA, NC 28778

LUST **U004139268**
UST **N/A**
IMD

Financial Assurance

Relative:
Lower
Actual:
2195 ft.

LUST:
Name: F & J #4 SWANNANOVA
Address: 501 OLD HWY 70
City,State,Zip: SWANNANOVA, NC 28778
Facility ID: 00-0-000
UST Number: AS-3531
Incident Number: 28674
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 11/04/2008
Date Occur: 10/31/2008
Cleanup: 11/06/2008
Closure Request: Not reported
Close Out: 02/02/2009
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: REGULATED
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: Yes
Flag1: No
LUR Filed: 02/18/2009
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 0
Reel Num: 0
RPOW: True
RPOP: True
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.6046 -82.3918
Testlat: Not reported
Regional Officer Project Mgr: DME
Region: ASH
Company: PATTERSON-UNRUH CORPORATION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Contact Person: ROBERT S. PATTERSON
Telephone: 8282747955
RP Address: 1 FAIRVIEW RD.
RP City,St,Zip: ASHEVILLE, NC 28803
RP County: Not reported
Comments: Phase II Environmental Site Assessment detected 12,000 ppm TPH-DRO in vicinity of diesel ust. No groundwater violations detected.
12/31/2008: LSA shows no GCL violations but some aromatics and aliphatics present above 2L, and since the Swannanoa River and a small tributary are within 500', ARO has requested surface water samples. MISSING PN. ****ALL FILES ON S LASERFICHE FOR PROCESSING****
5 Min Quad: Not reported

PIRF:

Facility Id: 28674
Date Occurred: 10/31/2008
Date Reported: 11/4/2008
Description Of Incident: TPH-DRO detected at 12,000 ppm in one soil boring. Other soil borings below soil to groundwater. No gw violations detected
Owner/Operator: Not reported
Ownership: 4
Operation Type: 6
Type: 3
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 3
Cause: 7
Source: G
Ust Number: P

Last Modified: 2/2/2009
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:
Name: SWANNANOA EBLEN
Address: 501 OLD US HIGHWAY 70
City,State,Zip: SWANNANOA, NC 28778
Facility ID: 0-011241
UST Number: AS-824

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Incident Number: 9700
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 06/05/1991
Date Occur: 06/05/1991
Cleanup: 06/05/1991
Closure Request: Not reported
Close Out: 07/05/1995
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: REGULATED
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 3
RPL: False
CD Num: 6
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long Decimal: 35.6045 -82.3918
Testlat: Not reported
Regional Officer Project Mgr: JCA
Region: ASH
Company: Not reported
Contact Person: Not reported
Telephone: Not reported
RP Address: Not reported
RP City,St,Zip: Not reported
RP County: Not reported
Comments: CLOSED 7/5/95
5 Min Quad: Not reported

PIRF:

Facility Id: 9700
Date Occurred: 9/14/1992
Date Reported: 1/29/1993
Description Of Incident: UPON REMOVAL OF 5 USTS, SOIL CONTAM. WAS CONFIRMED.
Owner/Operator: RICH PERKINS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Ownership:	4
Operation Type:	6
Type:	3
Location:	1
Site Priority:	Not reported
Priority Update:	Not reported
Wells Affected Y/N:	Not reported
Samples Include:	0
7#5 Minute Quad:	Not reported
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Min_Soil
Err Type:	Not reported
Cause:	Not reported
Source:	Not reported
Ust Number:	Not reported
Last Modified:	7/20/1995
Incident Phase:	Closed Out
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	7/5/1995

Click here to access the North Carolina DEQ records for this facility:

UST:

Name:	F AND J 4
Address:	501 OLD US HIGHWAY 70
City,State,Zip:	SWANNANOVA, NC 28778
Facility Id:	00-0-0000004604
Contact:	KUMUD LLC
Contact Address1:	501 OLD US HWY 70
Contact Address2:	Not reported
Contact City/State/Zip:	SWANNANOVA, NC 28778-2549
FIPS County Desc:	Buncombe
Latitude:	35.60453
Longitude:	-82.39200

Tank Id:	1
Tank Status:	Removed
Installed Date:	03/23/1969
Perm Close Date:	03/01/1988
Product Name:	Gasoline, Gas Mix
Tank Capacity:	5000
Root Tank Id:	Not reported
Main Tank:	No
Compartment Tank:	No
Manifold Tank:	Not reported
Commercial:	Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Unknown
Spill Protection Name: Unknown
Leak Detection Name: Unknown
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

[Click here to access the North Carolina DEQ records for this facility:](#)

Tank Id: 1A
Tank Status: Current
Installed Date: 03/18/1988
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Ball Float Valve
Spill Protection Name: Catchment Basin
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall FRP
Decode for PCONS_KEY: Single Wall FRP
Decode for PSYS_KEY: Pressurized System

[Click here to access the North Carolina DEQ records for this facility:](#)

Tank Id: 2
Tank Status: Removed
Installed Date: 03/23/1969
Perm Close Date: 03/01/1988
Product Name: Gasoline, Gas Mix
Tank Capacity: 5000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Unknown
Spill Protection Name: Unknown
Leak Detection Name: Unknown
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

[Click here to access the North Carolina DEQ records for this facility:](#)

Tank Id: 2A
Tank Status: Current
Installed Date: 03/18/1988
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Ball Float Valve
Spill Protection Name: Catchment Basin
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall FRP
Decode for PCONS_KEY: Single Wall FRP
Decode for PSYS_KEY: Pressurized System

[Click here to access the North Carolina DEQ records for this facility:](#)

Tank Id: 3
Tank Status: Removed
Installed Date: 03/20/1981
Perm Close Date: 03/01/1988
Product Name: Gasoline, Gas Mix
Tank Capacity: 3000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: Not reported
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Unknown
Spill Protection Name: Unknown
Leak Detection Name: Unknown
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall Steel
Decode for PSYS_KEY: Unknown

[Click here to access the North Carolina DEQ records for this facility:](#)

Tank Id: 3A
Tank Status: Current
Installed Date: 03/18/1988
Perm Close Date: Not reported
Product Name: Gasoline, Gas Mix
Tank Capacity: 4000
Root Tank Id: Not reported
Main Tank: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Ball Float Valve
Spill Protection Name: Catchment Basin
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall FRP
Decode for PCONS_KEY: Single Wall FRP
Decode for PSYS_KEY: Pressurized System

[Click here to access the North Carolina DEQ records for this facility:](#)

Tank Id: 4A
Tank Status: Current
Installed Date: 08/03/1998
Perm Close Date: Not reported
Product Name: Diesel
Tank Capacity: 3000
Root Tank Id: Not reported
Main Tank: No
Compartment Tank: No
Manifold Tank: 0
Commercial: Yes
Regulated: Yes
Other CP Tank: Not reported
Overfill Protection Name: Ball Float Valve
Spill Protection Name: Catchment Basin
Leak Detection Name: Not reported
Decode for TCONS_KEY: Single Wall Steel
Decode for PCONS_KEY: Single Wall FRP
Decode for PSYS_KEY: Pressurized System

[Click here to access the North Carolina DEQ records for this facility:](#)

IMD:

Name: SWANNANOA EBLEN
Address: 501 OLD US HIGHWAY 70
City: SWANNANOA
Region: Not reported
Facility ID: 9700
Date Occurred: 1992-09-14 00:00:00
Submit Date: 1993-01-29 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: UPON REMOVAL OF 5 USTS, SOIL CONTAM. WAS CONFIRMED.
Operator: RICH PERKINS
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City,St,Zip: Not reported
Ownership: Private
Operation: Commercial
Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Gasoline/diesel
Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: Not reported
Num Affected: 0
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.604529999999997
Longitude: -82.391852999999998
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: 9700
Last Modified: 1995-07-20 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1995-07-05 00:00:00

Name: F & J #4 SWANNANOA
Address: 501 OLD HWY 70
City: SWANNANOA
Region: Not reported
Facility ID: 28674
Date Occurred: 2008-10-31 00:00:00
Submit Date: 2008-11-04 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: TPH-DRO detected at 12,000 ppm in one soil boring. Other soil borings below soil to groundwater. No gw violations detected
Operator: Not reported
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F AND J 4 (Continued)

U004139268

Oper City,St,Zip: Not reported
Ownership: Private
Operation: Commercial
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Gasoline/diesel
Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Y
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.604636999999997
Longitude: -82.391803999999993
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: 28674
Last Modified: 2009-02-02 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

NC Financial Assurance 1:

Name: F AND J 4
Address: 501 OLD US HIGHWAY 70
City,State,Zip: SWANNANOVA, NC 28778
Facility ID: 00-0-0000004604
Region: 1
Financial Responsibility Desc: Insurance & Risk Retention
Financial Responsibility Name: Colony Insurance Company
Started Date: Not reported
Ended Date: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

8
 North
 1/4-1/2
 0.353 mi.
 1864 ft.

JERRY ROBINSON RESIDENCE
509 WILSON AVENUE
SWANNANOVA, NC

LUST **S108407752**
LUST TRUST **N/A**
IMD

Relative:
Higher
Actual:
2362 ft.

LUST:
 Name: JERRY ROBINSON RESIDENCE
 Address: 509 WILSON AVENUE
 City,State,Zip: SWANNANOVA, NC
 Facility ID: Not reported
 UST Number: AS-3313
 Incident Number: 28476
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 01/02/2007
 Date Occur: 11/30/2006
 Cleanup: 01/02/2007
 Closure Request: Not reported
 Close Out: Not reported
 Level Of Soil Cleanup Achieved: Not reported
 Tank Regulated Status: NON REGULATED
 # Of Supply Wells: 0
 Commercial/NonCommercial UST Site: NON COMMERCIAL
 Risk Classification: L
 Risk Class Based On Review: L
 Corrective Action Plan Type: Not reported
 NOV Issue Date: Not reported
 NORR Issue Date: Not reported
 Site Priority: Not reported
 Phase Of LSA Req: 1
 Site Risk Reason: Not reported
 Land Use: Not reported
 MTBE: No
 MTBE1: No
 Flag: No
 Flag1: No
 LUR Filed: Not reported
 Release Detection: 0
 Current Status: File Located in House
 RBCA GW: Not reported
 PETOPT: 4
 RPL: True
 CD Num: 0
 Reel Num: 0
 RPOW: True
 RPOP: True
 Error Flag: 0
 Error Code: N
 Valid: True
 Lat/Long Decimal: 35.6144 -82.3879
 Testlat: Not reported
 Regional Officer Project Mgr: MES
 Region: ASH
 Company: Not reported
 Contact Person: JERRY ROBINSON
 Telephone: 8286651193
 RP Address: 509 WILSON AVENUE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERRY ROBINSON RESIDENCE (Continued)

S108407752

RP City,St,Zip: SWANNANOA, NC 28778
RP County: Not reported
Comments: Soil contamination detected during UST removal. 20-Day report received 2/7/2007. LSA received 12/10/2007 - Low risk/residential.
5 Min Quad: Not reported

PIRF:

Facility Id: 28476
Date Occurred: 11/30/2006
Date Reported: 1/2/2007
Description Of Incident: Soil contamination detected during UST removal
Owner/Operator: Not reported
Ownership: 4
Operation Type: 3
Type: 4
Location: 7
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: n
Samples Include: Not reported
7#5 Minute Quad: s
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: Not reported
Source: Not reported
Ust Number: P

Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

[Click here to access the North Carolina DEQ records for this facility:](#)

LUST TRUST:

Name: JERRY ROBINSON RESIDENCE
Address: 509 WILSON AVENUE
City,State,Zip: SWANNANOA, NC
Facility ID: Not reported
Site ID: 28476
Site Note: Noncommercial; 100% eligible; \$0 deductible.[CGS 07/10/07]
Site Eligible?: True
Commercial Find: 100% Non-Commercial
Priority Rank: Not reported
Deductable Amount: 0
3rd Party Deductable Amt: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERRY ROBINSON RESIDENCE (Continued)

S108407752

Sum 3rd Party Amt Applied: 0

IMD:

Name: JERRY ROBINSON RESIDENCE
Address: 509 WILSON AVENUE
City: SWANNANOA
Region: Not reported
Facility ID: 28476
Date Occurred: 2006-11-30 00:00:00
Submit Date: 2007-01-02 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: Soil contamination detected during UST removal
Operator: Not reported
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City,St,Zip: Not reported
Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Heating Oil
Location: Residence
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: s
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.614417000000003
Longitude: -82.387972000000005
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: Not reported
Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERRY ROBINSON RESIDENCE (Continued)

S108407752

Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

9
SE
1/4-1/2
0.362 mi.
1910 ft.

CAROLINA READY MIX & BUILDERS SUPPLY
606 US HIGHWAY 70
SWANNANOVA, NC 28778

LUST S121291021
IMD N/A

Relative:
Lower

LUST:

Actual:
2185 ft.

Name: CAROLINA READY MIX & BUILDERS SUPPLY
Address: 606 US HIGHWAY 70
City,State,Zip: SWANNANOVA, NC 28778
Facility ID: N/A
UST Number: AS-4524
Incident Number: 41571
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 09/29/2017
Date Occur: 08/14/2017
Cleanup: 08/14/2017
Closure Request: Not reported
Close Out: 10/05/2017
Level Of Soil Cleanup Achieved: Soil to Groundwater
Tank Regulated Status: NON REGULATED
Of Supply Wells: 0
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Residential
MTBE: No
MTBE1: Unknown
Flag: Yes
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in Archives
RBCA GW: Not reported
PETOPT: 5
RPL: False
CD Num: 0
Reel Num: 0
RPOW: True
RPOP: True
Error Flag: 0
Error Code: N
Valid: False
Lat/Long Decimal: 35.6038 -82.3835

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CAROLINA READY MIX & BUILDERS SUPPLY (Continued)

S121291021

Testlat: Not reported
Regional Officer Project Mgr: CEL
Region: ASH
Company: CAROLINA READY MIX
Contact Person: Not reported
Telephone: Not reported
RP Address: 606 OLD US HIGHWAY 70
RP City,St,Zip: SWANNANOA, NC 28778
RP County: Not reported
Comments: ****ALL FILES ON LASERFICHE**** 10/2/17 -IAR received: Carolina ready mix removed the 4,000-gallon tank in 08/17. Soil samples were collected and submitted to lab on 08/14/17. Tank was in good condition. Chromium > S-GW MSCCs which is considered background levels. NFA recommended. 10/5/17 - NFA Issued.
5 Min Quad: Not reported

PIRF:

Facility Id: 41571
Date Occurred: 8/14/2017
Date Reported: 9/29/2017
Description Of Incident: Release from 4,000-gal motor oil UST.
Owner/Operator: Not reported
Ownership: 4
Operation Type: 5
Type: 5
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Y
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Not reported
Err Type: 2
Cause: 7
Source: A
Ust Number: P

Last Modified: 10/5/2017
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Click here to access the North Carolina DEQ records for this facility:

IMD:

Name: CAROLINA READY MIX & BUILDERS SUPPLY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CAROLINA READY MIX & BUILDERS SUPPLY (Continued)

S121291021

Address: 606 US HIGHWAY 70
City: SWANNANOA
Region: Not reported
Facility ID: 41571
Date Occurred: 2017-08-14 00:00:00
Submit Date: 2017-09-29 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: Release from 4,000-gal motor oil UST.
Operator: Not reported
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City,St,Zip: Not reported
Ownership: Private
Operation: Industrial
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Other petroleum product
Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: Y
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.603821000000003
Longitude: -82.383533999999997
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: 41571
Last Modified: 2017-10-05 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B10 **REDMON TEXACO**
SW **434 HWY 70/P.O. BOX 26**
1/4-1/2 **SWANNANOA, NC 28778**
0.383 mi.
2021 ft. **Site 1 of 2 in cluster B**

LUST **S105764034**
IMD **N/A**

Relative:
Lower

LUST:

Actual:
2194 ft.

Name: REDMON TEXACO
Address: 434 HWY 70/P.O. BOX 26
City,State,Zip: SWANNANOA, NC 28778
Facility ID: 0-002756
UST Number: AS-1174
Incident Number: 12227
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 05/06/1994
Date Occur: 02/14/1994
Cleanup: 04/13/1994
Closure Request: Not reported
Close Out: 05/13/1994
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: REGULATED
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: Not reported
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long Decimal: 35.6005 -82.4022
Testlat: Not reported
Regional Officer Project Mgr: JCA
Region: ASH
Company: Not reported
Contact Person: Not reported
Telephone: Not reported
RP Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDMON TEXACO (Continued)

S105764034

RP City,St,Zip: Not reported
RP County: Not reported
Comments: CLOSED 5/13/94 FILE MISSING 9/25/02 WILL NOT BE ARCHIVED
5 Min Quad: Not reported

PIRF:

Facility Id: 12227
Date Occurred: 2/14/1994
Date Reported: 5/6/1994
Description Of Incident: UPON REMOVAL UST MINOR SOIL CONTAM. WAS CONFIRMED.
Owner/Operator: JAMES REDMON
Ownership: 4
Operation Type: 6
Type: 3
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Samples Include: 0
7#5 Minute Quad: N
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Source Code: Min_Soil
Err Type: 2
Cause: 7
Source: G
Ust Number: P

Last Modified: 6/15/1994
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 5/13/1994

[Click here to access the North Carolina DEQ records for this facility:](#)

IMD:

Name: REDMON TEXACO
Address: 434 HWY 70/P.O. BOX 26
City: SWANNANOA
Region: Not reported
Facility ID: 12227
Date Occurred: 1994-02-14 00:00:00
Submit Date: 1994-05-06 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: UPON REMOVAL UST MINOR SOIL CONTAM. WAS CONFIRMED.
Operator: JAMES REDMON
Contact Phone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDMON TEXACO (Continued)

S105764034

Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City, St, Zip: Not reported
Ownership: Private
Operation: Commercial
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Gasoline/diesel
Location: Facility
Setting: Not reported
Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: 0
Wells Contam: Not reported
Sampled By: N
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.600555
Longitude: -82.402221999999995
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: 12227
Last Modified: 1994-06-15 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1994-05-13 00:00:00

Name: REDMON TEXACO
Address: 434 HWY 70/P.O. BOX 26
City: SWANNANOA
Region: ASH
Facility ID: 12227
Date Occurred: Not reported
Submit Date: 5/31/1994
GW Contam: No Groundwater Contamination detected
Soil Contam: Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDMON TEXACO (Continued)

S105764034

Incident Desc: UPON REMOVAL UST MINOR SOIL CONTAM. WAS CONFIRMED.
Operator: Not reported
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City, St, Zip: Not reported
Ownership: Private
Operation: Commercial
Material: GASOLINE
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Leak-underground
Type: Gasoline/diesel
Location: Facility
Setting: Industrial
Risk Site: L
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: JCA
Wells Affected: Not reported
Num Affected: 0
Wells Contam: Not reported
Sampled By: Not reported
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: NOD
Agency: DWM
Facility ID: 12227
Last Modified: 1994-06-15 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: 1994-05-13 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B11 **REDMON'S TEXACO**
SW **434 HW 70**
1/4-1/2 **SWANNANOVA, NC 28878**
0.383 mi.
2021 ft. **Site 2 of 2 in cluster B**

LUST **S107504297**
LAST **N/A**
LUST TRUST

Relative:
Lower
Actual:
2194 ft.

LUST:
Name: REDMON'S TEXACO
Address: 434 HW 70
City,State,Zip: SWANNANOVA, NC 28878
Facility ID: 0-034140
UST Number: AS-1871
Incident Number: 22037
Contamination Type: Soil
Source Type: Leak-underground
Product Type: PETROLEUM
Date Reported: 01/13/2000
Date Occur: 01/13/2000
Cleanup: 01/13/2000
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: NON REGULATED
Of Supply Wells: Not reported
Commercial/NonCommercial UST Site: NON COMMERCIAL
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: 04/13/2000
Site Priority: P
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: Not reported
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: File Located in House
RBCA GW: Not reported
PETOPT: Not reported
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long Decimal: 35.6005 -82.4022
Testlat: Not reported
Regional Officer Project Mgr: MES
Region: ASH
Company: RON REDMON
Contact Person: REDMOND TEXACO
Telephone: 828-686-5567
RP Address: 434 HIGHWAY 70

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDMON'S TEXACO (Continued)

S107504297

RP City,St,Zip: SWANNANOVA, NC 28778
RP County: BUNCO
Comments: Not reported
5 Min Quad: Not reported

PIRF:

Facility Id: 22037
Date Occurred: 1/13/2000
Date Reported: 7/31/2000
Description Of Incident: PHASE II INVESTIGATION CONFIRMED CONTAMINATION.
Owner/Operator: RON REDMON
Ownership: 4
Operation Type: 6
Type: 4
Location: 1
Site Priority: Not reported
Priority Update: 7/31/2000
Wells Affected Y/N: N
Samples Include: Not reported
7#5 Minute Quad: Not reported
5 Minute Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: M84P
Source Code: PIRF
Err Type: Not reported
Cause: Not reported
Source: Not reported
Ust Number: Not reported

Last Modified: Not reported
Incident Phase: Response
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

[Click here to access the North Carolina DEQ records for this facility:](#)

LAST:

Name: REDMONS TEXACO (AST)
Address: 434 HIGHWAY 70
City,State,Zip: SWANNANOVA, NC 28778
Facility ID: Not reported
UST Number: AS-85632
Incident Number: 85632
Contamination Type: SL
Source Type: 14
Product Type: N
Date Reported: 11/22/1999
Date Occur: 11/18/1999
Cleanup: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

REDMON'S TEXACO (Continued)

S107504297

Closure Request:	Not reported
Close Out:	03/21/2000
Level Of Soil Cleanup Achieved:	Not reported
Tank Regulated Status:	Not reported
# Of Supply Wells:	0
Commercial/NonCommercial UST Site:	Not reported
Risk Classification:	L
Risk Class Based On Review:	L
Corrective Action Plan Type:	Not reported
NOV Issue Date:	Not reported
NORR Issue Date:	Not reported
Site Priority:	20
Phase Of LSA Req:	Not reported
Site Risk Reason:	Not reported
Land Use:	Not reported
MTBE:	No
MTBE1:	Unknown
Flag:	No
Flag1:	No
LUR Filed:	Not reported
Release Detection:	0
Current Status:	A
RBCA GW:	Not reported
PETOPT:	Not reported
RPL:	False
CD Num:	302
Reel Num:	0
RPOW:	False
RPOP:	False
Error Flag:	0
Error Code:	Not reported
Valid:	False
Lat/Long:	Not reported
Lat/Long Decimal:	35.60074 -82.40166
Testlat:	Not reported
Regional Officer Project Mgr:	Not reported
Region:	ASH
Company:	REDMONS TEXACO
Contact Person:	RON REDMON
Telephone:	Not reported
RP Address:	434 HIGHWAY 70
RP City,St,Zip:	SWANNANOA, NC
RP County:	Not reported
Comments:	OIL SPILL FROM AN AST (WASTE OIL TANK). AFTER EXCAVATION, SOIL SAMPLE TAKEN AT THE BOTTOM DID NOT SHOW ANY HIT WITH 8260 AND 8270 METHODS. THERE IS ON GOING UST INVESTIGATION FOR THE SITE. NO CLOSURE LETTER IS ISSUED.
5 Min Quad:	Not reported
PIRF:	
Facility Id:	85632
Date Occurred:	Not reported
Date Reported:	Not reported
Description Of Incident:	Not reported
Owner/Operator:	Not reported
Ownership:	5
Operation Type:	8
Type:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

REDMON'S TEXACO (Continued)

S107504297

Location: Not reported
 Site Priority: 20E
 Priority Update: Not reported
 Wells Affected Y/N: N
 Wells Affected Number: 0
 Samples Taken By: Not reported
 Samples Include: Not reported
 7#5 Min Quad: Not reported
 5 Min Quad: Not reported
 Pirf/Min Soil: Not reported
 Release Code: Not reported
 Cause: Not reported
 Source: Not reported
 Source Type: 0

Last Modified: 5/4/2001
Incident Phase: CO
 NOV Issued: Not reported
 NORR Issued: Not reported
 45 Day Report: Not reported
 Public Meeting Held: Not reported
 Corrective Action Planned: Not reported
 SOC Signed: Not reported
 Reclassification Report: Not reported
 RS Designation: Not reported
 Closure Request Date: Not reported
 Close-out Report: 3/21/2000

LUST TRUST:

Name: REDMON'S TEXACO
 Address: 434 HIGHWAY 70
 City,State,Zip: SWANNANOA, NC
 Facility ID: Not reported
 Site ID: 22037
 Site Note: Not reported
 Site Eligible?: True
 Commercial Find: 100% Non-Commercial
 Priority Rank: Not reported
 Deductable Amount: 0
 3rd Party Deductable Amt: 0
 Sum 3rd Party Amt Applied: 0

C12
ENE
 1/4-1/2
 0.424 mi.
 2237 ft.

MCNEES (CONNIE) PROPERTY
144 EAST WOOD AVENUE
SWANNANOA, NC
 Site 1 of 2 in cluster C

LUST TRUST S118128465
N/A

Relative:
Higher
Actual:
2262 ft.

LUST TRUST:
 Name: MCNEES (CONNIE) PROPERTY
 Address: 144 EAST WOOD AVENUE
 City,State,Zip: SWANNANOA, NC
 Facility ID: Not reported
 Site ID: 41343
 Site Note: SCAN-----Noncommercial; first apply a \$1,000 deductible then reimburse 90% of subsequent approved costs until a maximum deductible of \$2,000 is reached. Then reimburse at 100%. [CGS 1/12/16]

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MCNEES (CONNIE) PROPERTY (Continued)

S118128465

Site Eligible?: True
 Commercial Find: 100% Non-Commercial
 Priority Rank: Not reported
 Deductable Amount: 2000
 3rd Party Deductable Amt: 0
 Sum 3rd Party Amt Applied: 0

**C13
 ENE
 1/4-1/2
 0.424 mi.
 2237 ft.**

**MCNEES (CONNIE) PROPERTY
 144 EASTWOOD AVENUE
 SWANNANOVA, NC 28778**

**LUST
 INST CONTROL
 IMD**

**S120839859
 N/A**

Site 2 of 2 in cluster C

**Relative:
 Higher**

LUST:

**Actual:
 2262 ft.**

Name: MCNEES (CONNIE) PROPERTY
 Address: 144 EASTWOOD AVENUE
 City,State,Zip: SWANNANOVA, NC 28778
 Facility ID: Not reported
 UST Number: AS-4260
 Incident Number: 41343
 Contamination Type: Soil
 Source Type: Leak-underground
 Product Type: PETROLEUM
 Date Reported: 05/26/2015
 Date Occur: 05/11/2015
 Cleanup: 05/11/2015
 Closure Request: Not reported
 Close Out: 07/14/2015
 Level Of Soil Cleanup Achieved: Residential
 Tank Regulated Status: NON REGULATED
 # Of Supply Wells: 0
 Commercial/NonCommercial UST Site: NON COMMERCIAL
 Risk Classification: L
 Risk Class Based On Review: L
 Corrective Action Plan Type: Not reported
 NOV Issue Date: Not reported
 NORR Issue Date: Not reported
 Site Priority: Not reported
 Phase Of LSA Req: 1
 Site Risk Reason: Not reported
 Land Use: Residential
 MTBE: No
 MTBE1: No
 Flag: No
 Flag1: No
 LUR Filed: 06/22/2015
 Release Detection: 0
 Current Status: File Located in Archives
 RBCA GW: Not reported
 PETOPT: 4
 RPL: False
 CD Num: 658
 Reel Num: 0
 RPOW: False
 RPOP: False
 Error Flag: 0
 Error Code: N
 Valid: False

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MCNEES (CONNIE) PROPERTY (Continued)

S120839859

Lat/Long Decimal:	35.6110 -82.3805
Testlat:	Not reported
Regional Officer Project Mgr:	JCA
Region:	ASH
Company:	Not reported
Contact Person:	CONNIE B. MCNEES
Telephone:	Not reported
RP Address:	2 ARCO ROAD
RP City,St,Zip:	ASHEVILLE, NC 28805
RP County:	Not reported
Comments:	6/22/15 - LSA: No WSWs, Unnamed tributary 140' SE, no WHP. MW installed to 30' bls. DTW = 22' Bls. GW Flow to SE. Soils collected from MW GW < 2L. Recommends NFA with NRP for SOIL ONLY. 06/22/15 - NRP For Soil only NORR Issued. 06/22/15 - NRP received and Conditional NFA issued. Final NFA 7/15/2015
5 Min Quad:	Not reported
PIRF:	
Facility Id:	41343
Date Occurred:	5/11/2015
Date Reported:	5/26/2015
Description Of Incident:	RELEASE FROM A 550 GAL. HOME HEATING OIL UST DISCOVERED DURING THE REMOVAL, CONTAMNITED SOIL WAS REMOVED AT THE TIME OF CLOSURE.
Owner/Operator:	Not reported
Ownership:	4
Operation Type:	3
Type:	4
Location:	7
Site Priority:	Not reported
Priority Update:	Not reported
Wells Affected Y/N:	N
Samples Include:	Not reported
7#5 Minute Quad:	N
5 Minute Quad:	Not reported
Pirf/Min Soil:	Not reported
Release Code:	Not reported
Source Code:	Not reported
Err Type:	2
Cause:	3
Source:	A
Ust Number:	P
Last Modified:	7/14/2015
Incident Phase:	Closed Out
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

Click here to access the North Carolina DEQ records for this facility:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCNEES (CONNIE) PROPERTY (Continued)

S120839859

INST CONTROL:

Name: MCNEES (CONNIE) PROPERTY
Address: 144 EASTWOOD AVENUE
City,State,Zip: SWANNANOA, NC
Project Number: AS-4260
Object ID: 6499
DWM Contact: Asheville Regional Office (828) 296-4500
DWM Program: Underground Storage Tank Section
Project Status: No Further Action
COC: Multi COC
Contamination Source: UST System
Received Date: 6/21/2015
Restricted Media: Soil Only
Allowed Use: Media Restrictions Only
Certification: None
Plant Reception Date: Not reported
Instrument Status: Effective
Deed BK: Not reported
Deed PG: Not reported
Plat BK: Not reported
Plat PG: Not reported
Instrument: Notice and Restriction
Deed: Not reported
Deed Date: Recorded 6-21-2015
Plat: Not reported
Plat Date: Not reported
X Coord: 995405.71761
Y Coord: 694427.73666

IMD:

Name: MCNEES (CONNIE) PROPERTY
Address: 144 EASTWOOD AVENUE
City: SWANNANOA
Region: Not reported
Facility ID: 41343
Date Occurred: 2015-05-11 00:00:00
Submit Date: 2015-05-26 00:00:00
GW Contam: Not reported
Soil Contam: Not reported
Incident Desc: RELEASE FROM A 550 GAL. HOME HEATING OIL UST DISCOVERED DURING THE REMOVAL, CONTAMNITED SOIL WAS REMOVED AT THE TIME OF CLOSURE.
Operator: Not reported
Contact Phone: Not reported
Owner Company: Not reported
Operator Address: Not reported
Operator City: Not reported
Oper City,St,Zip: Not reported
Ownership: Private
Operation: Residential
Material: Not reported
Qty Lost 1: Not reported
Qty Recovered 1: Not reported
Source: Not reported
Type: Heating Oil
Location: Residence
Setting: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MCNEES (CONNIE) PROPERTY (Continued)

S120839859

Risk Site: Not reported
Site Priority: Not reported
Priority Code: Not reported
Priority Update: Not reported
Dem Contact: Not reported
Wells Affected: No
Num Affected: Not reported
Wells Contam: Not reported
Sampled By: N
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: Not reported
Latitude: 35.611047999999997
Longitude: -82.380556999999996
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: Not reported
Agency: Not reported
Facility ID: 41343
Last Modified: 2015-07-14 00:00:00
Incident Phase: Closed Out
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

14
SSW
1/4-1/2
0.451 mi.
2379 ft.

JERNIGAN RENTAL HOME
155 EDWARDS AVE.
SWANNONOA, NC 28778

LAST S103718032
IMD N/A

Relative:
Lower
Actual:
2186 ft.

LAST:
Name: JERNIGAN RENTAL HOME
Address: 155 EDWARDS AVE.
City,State,Zip: SWANNONOA, NC 28778
Facility ID: Not reported
UST Number: AS-19484
Incident Number: 19484
Contamination Type: SL
Source Type: 14
Product Type: P
Date Reported: 01/11/1999
Date Occur: 01/11/1999
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERNIGAN RENTAL HOME (Continued)

S103718032

Of Supply Wells: 0
Commercial/NonCommercial UST Site: Not reported
Risk Classification: L
Risk Class Based On Review: L
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported
NORR Issue Date: Not reported
Site Priority: 20
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: No
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: C
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: Not reported
Valid: False
Lat/Long: Not reported
Lat/Long Decimal: 35.60222 -82.39305
Testlat: Not reported
Regional Officer Project Mgr: DPM
Region: ASH
Company: Not reported
Contact Person: ROBERT JERNIGAN
Telephone: Not reported
RP Address: 32 OLD QUARRY RD.
RP City,St,Zip: HENDERSONVILLE, NC
RP County: Not reported
Comments: ABOUT 12 CUBIC YARD SOF CONYAMINATED SOIL WAS REMOVED FROM THE SITE AND DISPOSED OF. AT THE BOTTOM OF THE EXCAVATION SOIL SAMPLE WAS TAKEN: 190 PPM DIESEL.
5 Min Quad: Not reported

PIRF:

Facility Id: 19484
Date Occurred: Not reported
Date Reported: Not reported
Description Of Incident: Not reported
Owner/Operator: Not reported
Ownership: 5
Operation Type: 5
Type: Not reported
Location: Not reported
Site Priority: 20E
Priority Update: Not reported
Wells Affected Y/N: N
Wells Affected Number: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERNIGAN RENTAL HOME (Continued)

S103718032

Samples Taken By: Not reported
Samples Include: Not reported
7#5 Min Quad: Not reported
5 Min Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: Not reported
Cause: Not reported
Source: Not reported
Source Type: 0

Last Modified: 2/6/2001
Incident Phase: RE
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Signed: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

IMD:

Name: JERNIGAN RENTAL HOME
Address: 155 EDWARDS AVE.
City: SWANNONOA
Region: ASH
Facility ID: 19484
Date Occurred: 1/11/1999
Submit Date: 1/27/1999
GW Contam: No data entered (data entry person submitted a blank field)
Soil Contam: Yes
Incident Desc: ABOUT 12 CUBIC YARD SOF CONYAMINATED SOIL WAS REMOVED FROM THE SITE AND DISPOSED OF. AT THE BOTTOM OF THE EXCAVATION SOIL SAMPLE WAS TAKEN: 190 PPM DIESEL.
Operator: JERNIGAN, ROBERT
Contact Phone: 828-697-3631
Owner Company: Not reported
Operator Address: 32 OLD QUARRY RD.
Operator City: HENDERSONVILLE
Oper City,St,Zip: HENDERSONVILLE, NC 828-697-3631
Ownership: Federal
Operation: Industrial
Material: HEATING OIL
Qty Lost 1: Not reported
Qty Recovered 1: NONE
Source: Dredge Spoil
Type: Heating Oil
Location: Residence
Setting: Residential
Risk Site: No
Site Priority: Not reported
Priority Code: E
Priority Update: 3/2/1999
Dem Contact: QQ
Wells Affected: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JERNIGAN RENTAL HOME (Continued)

S103718032

Num Affected: 0
Wells Contam: Not reported
Sampled By: None
Samples Include: Not reported
7.5 Min Quad: Not reported
5 Min Quad: M84Q
Latitude: Not reported
Longitude: Not reported
Latitude Number: Not reported
Longitude Number: Not reported
Latitude Decimal: Not reported
Longitude Decimal: Not reported
GPS: EST
Agency: DWQ
Facility ID: Not reported
Last Modified: Not reported
Incident Phase: Not reported
NOV Issued: Not reported
NORR Issued: Not reported
45 Day Report: Not reported
Public Meeting Held: Not reported
Corrective Action Planned: Not reported
SOC Sighned: Not reported
Reclassification Report: Not reported
RS Designation: Not reported
Closure Request Date: Not reported
Close-out Report: Not reported

15
SSE
1/4-1/2
0.469 mi.
2476 ft.

BERRY'S GARDEN CENTER
2573 US HWY 70
SWANNANOVA, NC 28778

LAST S123084187
N/A

Relative:
Lower
Actual:
2186 ft.

LAST:
Name: BERRY'S GARDEN CENTER
Address: 2573 US HWY 70
City,State,Zip: SWANNANOVA, NC 28778
Facility ID: Not reported
UST Number: AS-88424
Incident Number: 89261
Contamination Type: SL
Source Type: 14
Product Type: P
Date Reported: 08/07/2018
Date Occur: 08/07/2018
Cleanup: Not reported
Closure Request: Not reported
Close Out: Not reported
Level Of Soil Cleanup Achieved: Not reported
Tank Regulated Status: N
Of Supply Wells: 0
Commercial/NonCommercial UST Site: Not reported
Risk Classification: Not reported
Risk Class Based On Review: U
Corrective Action Plan Type: Not reported
NOV Issue Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BERRY'S GARDEN CENTER (Continued)

S123084187

NORR Issue Date: Not reported
Site Priority: Not reported
Phase Of LSA Req: Not reported
Site Risk Reason: Not reported
Land Use: Not reported
MTBE: No
MTBE1: Unknown
Flag: Yes
Flag1: No
LUR Filed: Not reported
Release Detection: 0
Current Status: C
RBCA GW: Not reported
PETOPT: 4
RPL: False
CD Num: 0
Reel Num: 0
RPOW: False
RPOP: False
Error Flag: 0
Error Code: N
Valid: False
Lat/Long: Not reported
Lat/Long Decimal: 35.36039 -82.23069
Testlat: Not reported
Regional Officer Project Mgr: dpm
Region: ASH
Company: Not reported
Contact Person: sadie berry
Telephone: Not reported
RP Address: 2556 us hwy 70
RP City,St,Zip: swannanoa, NC 28778
RP County: Not reported
Comments: heating oil tank sabotage during robbery. Line cut releasing heating oil to soil. RP believes 200 +/- gallons of fuel was released.
5 Min Quad: Not reported

PIRF:

Facility Id: 89261
Date Occurred: Not reported
Date Reported: Not reported
Description Of Incident: Not reported
Owner/Operator: Not reported
Ownership: 4
Operation Type: 8
Type: 4
Location: 1
Site Priority: Not reported
Priority Update: Not reported
Wells Affected Y/N: N
Wells Affected Number: Not reported
Samples Taken By: N
Samples Include: Not reported
7#5 Min Quad: Not reported
5 Min Quad: Not reported
Pirf/Min Soil: Not reported
Release Code: 1
Cause: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BERRY'S GARDEN CENTER (Continued)

S123084187

Source:	Not reported
Source Type:	P
Last Modified:	Not reported
Incident Phase:	Not reported
NOV Issued:	Not reported
NORR Issued:	Not reported
45 Day Report:	Not reported
Public Meeting Held:	Not reported
Corrective Action Planned:	Not reported
SOC Signed:	Not reported
Reclassification Report:	Not reported
RS Designation:	Not reported
Closure Request Date:	Not reported
Close-out Report:	Not reported

16
SW
1/2-1
0.660 mi.
3485 ft.

BEACON MANUFACTURING
2425 US HWY 70
SWANNANOA, NC

SHWS S118695796
N/A

Relative:
Lower
Actual:
2182 ft.

SHWS:
 Name: BEACON MANUFACTURING
 Address: 2425 US HWY 70
 City,State,Zip: SWANNANOA, NC
 EPAID: NCN000407672
 Lat/Longitude: 35.60142 / -82.39746
 Geolocation Method: On Screen Placement On Georeferenced Map

[Click here to access the North Carolina DEQ records for this facility:](#)

17
ENE
1/2-1
0.678 mi.
3579 ft.

MOORE GENERAL HOSP
SWANNANOA, NC

FUDS 1009484306
N/A

Relative:
Higher
Actual:
2317 ft.

FUDS:
 EPA Region: 04
 Installation ID: NC49799F487800
 Congressional District Number: 10
 Facility Name: MOORE GENERAL HOSP
 FUDS Number: I04NC0529
 City: SWANNANOA
 State: NC
 County: BUNCOMBE
 Object ID: 5088
 USACE District: Savannah District (SAS)
 Status: Properties with all projects at site closeout
 Current Owner: State Government
 EMS Map Link: <https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=56378>
 Eligibility: Eligible
 Has Projects: Yes
 NPL Status: Not Listed
 Latitude: 35.611388890000001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOORE GENERAL HOSP (Continued)

1009484306

Longitude: -82.376111109999897

FUDS Detail as of Jan 2015:

Fiscal Year: 2013
Federal Facility ID: NC9799F4878
RAB: Not reported
NPL Status: Not Listed

Description: THERE IS A LANDFILL OF APPROX. 3 ACRES ASSOCIATED WITH THE INCINERATOR AT THE FORMER MOORE GENERAL HOSPITAL. PART OF THIS LANDFILL IS IN THE HEADWATERS OF A STREAM. THERE ARE NO RECORDS ON THIS LANDFILL. MISCELLANEOUS ITEMS WERE PUT IN THIS LANDFILL BY THE WAR DEPARTMENT 1942-1947, VETERANS ADMIN. 1947-1959, AND THE STATE OF NORTH CAROLINA 1959 - PRESENT. THE STATE OF NORTH CAROLINA IS NOW USING THIS LANDFILL FOR A DEBIRS LANDFILL.

History: Utilized as a general hospital and a field hospital unit for the training of officers, nurses, and enlisted men.

CTC: 74.799999999999997
Current Program: Not reported
Future Program: Not reported
Institutional ID: 56378

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SWANNANOA	S110630318	MONEY-WORTH, INC.	FROM SWANNANOA, NORTH ON ASHEV		OLI
SWANNANOA	S125674848	SWANNANOA DJJDP PROPERTY	WOODLAND DR		SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: N/A
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/12/2021
	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: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: N/A
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

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

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/26/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/14/2020	Source: EPA
Date Data Arrived at EDR: 12/17/2020	Telephone: 800-424-9346
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

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

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (404) 562-8651
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 08/06/2020	Source: Department of the Navy
Date Data Arrived at EDR: 08/21/2020	Telephone: 843-820-7326
Date Made Active in Reports: 11/11/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 02/22/2021
	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: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	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: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

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: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

State- and tribal - equivalent CERCLIS

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: 09/04/2020
Date Data Arrived at EDR: 09/09/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 85

Source: Department of Environment, Health and Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

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

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: 09/10/2020
Date Data Arrived at EDR: 09/23/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 82

Source: Department of Environment and Natural Resources
Telephone: 919-733-0692
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

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: 09/02/2020
Date Data Arrived at EDR: 09/16/2020
Date Made Active in Reports: 12/08/2020
Number of Days to Update: 83

Source: Department of Environmental Quality
Telephone: 919-707-8247
Last EDR Contact: 12/14/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/11/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/30/2020
Number of Days to Update: 82

Source: Department of Environment & Natural Resources
Telephone: 919-733-4996
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 04/30/2020
Date Data Arrived at EDR: 07/09/2020
Date Made Active in Reports: 09/23/2020
Number of Days to Update: 76

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

State and tribal leaking storage tank lists

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: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 15

Source: Department of Environment and Natural Resources
Telephone: 919-707-8200
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tank site locations.

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/22/2021
Number of Days to Update: 80

Source: Department of Environment & Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
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: 04/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
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: 04/14/2020	Source: EPA Region 8
Date Data Arrived at EDR: 05/20/2020	Telephone: 303-312-6271
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/08/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/20/2020	Telephone: 415-972-3372
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/14/2020	Source: EPA Region 10
Date Data Arrived at EDR: 05/20/2020	Telephone: 206-553-2857
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/29/2020	Source: EPA Region 1
Date Data Arrived at EDR: 05/20/2020	Telephone: 617-918-1313
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/14/2020	Source: EPA Region 4
Date Data Arrived at EDR: 05/26/2020	Telephone: 404-562-8677
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	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: 04/14/2020	Source: EPA, Region 5
Date Data Arrived at EDR: 05/20/2020	Telephone: 312-886-7439
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 10/02/2020	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 10/07/2020	Telephone: 919-733-1315
Date Made Active in Reports: 12/31/2020	Last EDR Contact: 01/06/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 07/21/2020	Source: FEMA
Date Data Arrived at EDR: 09/03/2020	Telephone: 202-646-5797
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/04/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/19/2021
	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: 10/30/2020	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 11/04/2020	Telephone: 919-733-1308
Date Made Active in Reports: 12/31/2020	Last EDR Contact: 11/04/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 02/15/2021
	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: 08/12/2020	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 09/15/2020	Telephone: 919-715-6183
Date Made Active in Reports: 12/07/2020	Last EDR Contact: 12/09/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: Semi-Annually

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: 04/14/2020	Source: EPA Region 5
Date Data Arrived at EDR: 05/20/2020	Telephone: 312-886-6136
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/14/2020	Source: EPA Region 4
Date Data Arrived at EDR: 05/26/2020	Telephone: 404-562-9424
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	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: 04/14/2020	Source: EPA Region 10
Date Data Arrived at EDR: 05/20/2020	Telephone: 206-553-2857
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/15/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-7591
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/08/2020	Source: EPA Region 9
Date Data Arrived at EDR: 05/20/2020	Telephone: 415-972-3368
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/03/2020	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2020	Telephone: 913-551-7003
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/29/2020	Source: EPA, Region 1
Date Data Arrived at EDR: 05/20/2020	Telephone: 617-918-1313
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 04/14/2020	Source: EPA Region 8
Date Data Arrived at EDR: 05/20/2020	Telephone: 303-312-6137
Date Made Active in Reports: 08/13/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/03/2021
	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: 09/04/2020	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/09/2020	Telephone: 919-508-8400
Date Made Active in Reports: 12/03/2020	Last EDR Contact: 12/11/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/15/2020
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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

VCP: Responsible Party Voluntary Action Sites

Responsible Party Voluntary Action site locations.

Date of Government Version: 09/04/2020	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 09/09/2020	Telephone: 919-508-8400
Date Made Active in Reports: 12/03/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

State and tribal Brownfields 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: 12/01/2020	Source: Department of Environment and Natural Resources
Date Data Arrived at EDR: 12/08/2020	Telephone: 919-733-4996
Date Made Active in Reports: 12/09/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 1	Next Scheduled EDR Contact: 04/12/2021
	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: 09/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2020	Telephone: 202-566-2777
Date Made Active in Reports: 12/10/2020	Last EDR Contact: 12/11/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Landfill / Solid Waste Disposal Sites

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

SWRCY: Recycling Center Listing

A listing of recycling center locations.

Date of Government Version: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/09/2020
Number of Days to Update: 83

Source: Department of Environment & Natural Resources
Telephone: 919-707-8137
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
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: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
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: 09/20/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 10/09/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 84

Source: Department of Environment & Natural Resources
Telephone: 919-807-6308
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

IMD: Incident Management Database

Groundwater and/or soil contamination incidents

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/21/2021
Number of Days to Update: 79

Source: Department of Environment and Natural Resources
Telephone: 877-623-6748
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 09/29/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/07/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 11/09/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/22/2021
	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: 09/21/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/22/2020	Telephone: 202-566-1917
Date Made Active in Reports: 12/14/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/05/2021
	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: 11/02/2020
Number of Days to Update: 88	Next Scheduled EDR Contact: 02/15/2021
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 11/06/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 02/15/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 12/18/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 11/17/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/01/2021
	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: 10/19/2020	Source: EPA
Date Data Arrived at EDR: 10/19/2020	Telephone: 202-564-4203
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 01/21/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/03/2021
	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: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-416-0223
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 11/02/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/12/2020	Telephone: 202-564-8600
Date Made Active in Reports: 01/25/2021	Last EDR Contact: 01/19/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 05/03/2021
	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: 04/27/2020	Source: EPA
Date Data Arrived at EDR: 05/06/2020	Telephone: 202-564-6023
Date Made Active in Reports: 06/09/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/15/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 01/08/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/19/2021
	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: 12/30/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/19/2021
	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: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

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

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

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
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: 11/30/2020
Next Scheduled EDR Contact: 03/15/2021
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: 11/06/2021
Next Scheduled EDR Contact: 02/15/2021
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: 01/08/2021
Next Scheduled EDR Contact: 04/12/2021
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: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
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: 09/30/2020
Date Data Arrived at EDR: 10/08/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 88

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
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: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
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: 01/08/2021
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 11/06/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/15/2021
	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: 11/20/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 03/01/2021
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-8787
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/12/2021
	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: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
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: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/10/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 11/04/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 55

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 10/03/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
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: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

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

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 73

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

AIRS: Air Quality Permit Listing

A listing of facilities with air quality permits.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/09/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 919-707-8726
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

ASBESTOS: ASBESTOS

Asbestos notification sites

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/07/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 76

Source: Department of Health & Human Services
Telephone: 919-707-5973
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 09/10/2020
Date Data Arrived at EDR: 09/23/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 82

Source: Department of Environment & Natural Resources
Telephone: 919-807-6359
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/16/2020
Date Made Active in Reports: 12/08/2020
Number of Days to Update: 83

Source: Department of Environment & Natural Resources
Telephone: 919-508-8400
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

Financial 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.

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/04/2020
Date Made Active in Reports: 12/31/2020
Number of Days to Update: 57

Source: Department of Environment & Natural Resources
Telephone: 919-733-1322
Last EDR Contact: 11/04/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

Financial 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 Environment & Natural Resources
Telephone: 919-508-8496
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information

Hazardous waste financial assurance information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/04/2020
Date Data Arrived at EDR: 09/04/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 87

Source: Department of Environment & Natural Resources
Telephone: 919-707-8222
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

NPDES: NPDES Facility Location Listing

General information regarding NPDES(National Pollutant Discharge Elimination System) permits.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/27/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 80

Source: Department of Environment & Natural Resources
Telephone: 919-733-7015
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of uncerground injection wells locations.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 12/07/2020
Number of Days to Update: 7

Source: Department of Environment & Natural Resources
Telephone: 919-807-6412
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/15/2021
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: 04/01/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 05/27/2020
Number of Days to Update: 1

Source: Department of Environmental Quality
Telephone: 919-707-9129
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/22/2021
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: 05/13/2020
Date Data Arrived at EDR: 07/07/2020
Date Made Active in Reports: 09/23/2020
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

PCSRP: Petroleum-Contaminated Soil Remediation Permits

To treat petroleum-contaminated soil in order to protect North Carolinaa??s environment and the health of the citizens of North Carolina.

Date of Government Version: 07/06/2020
Date Data Arrived at EDR: 07/07/2020
Date Made Active in Reports: 09/23/2020
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/18/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

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

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/27/2020
Date Data Arrived at EDR: 07/07/2020
Date Made Active in Reports: 09/23/2020
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 919-707-8248
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

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: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR 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	Source: Department of Environment, Health and Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	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	Source: Department of Environment, Health and Natural Resources
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/20/2013
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: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
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: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

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

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/03/2020
Next Scheduled EDR Contact: 03/22/2021
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

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.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

State Wetlands Data: 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

PROSPECTIVE PARK - HAWTHORNE AVE
99999 HAWTHORNE AVE
SWANNANOVA, NC 28778

TARGET PROPERTY COORDINATES

Latitude (North): 35.608725 - 35° 36' 31.41"
Longitude (West): 82.388391 - 82° 23' 18.21"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 374245.5
UTM Y (Meters): 3941239.8
Elevation: 2238 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 5948508 OTEEN, NC
Version Date: 2013

Northeast Map: 5948504 MONTREAT, NC
Version Date: 2013

Southeast Map: 5948468 BLACK MOUNTAIN, NC
Version Date: 2013

Northwest Map: 5947755 CRAGGY PINNACLE, NC
Version Date: 2013

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).

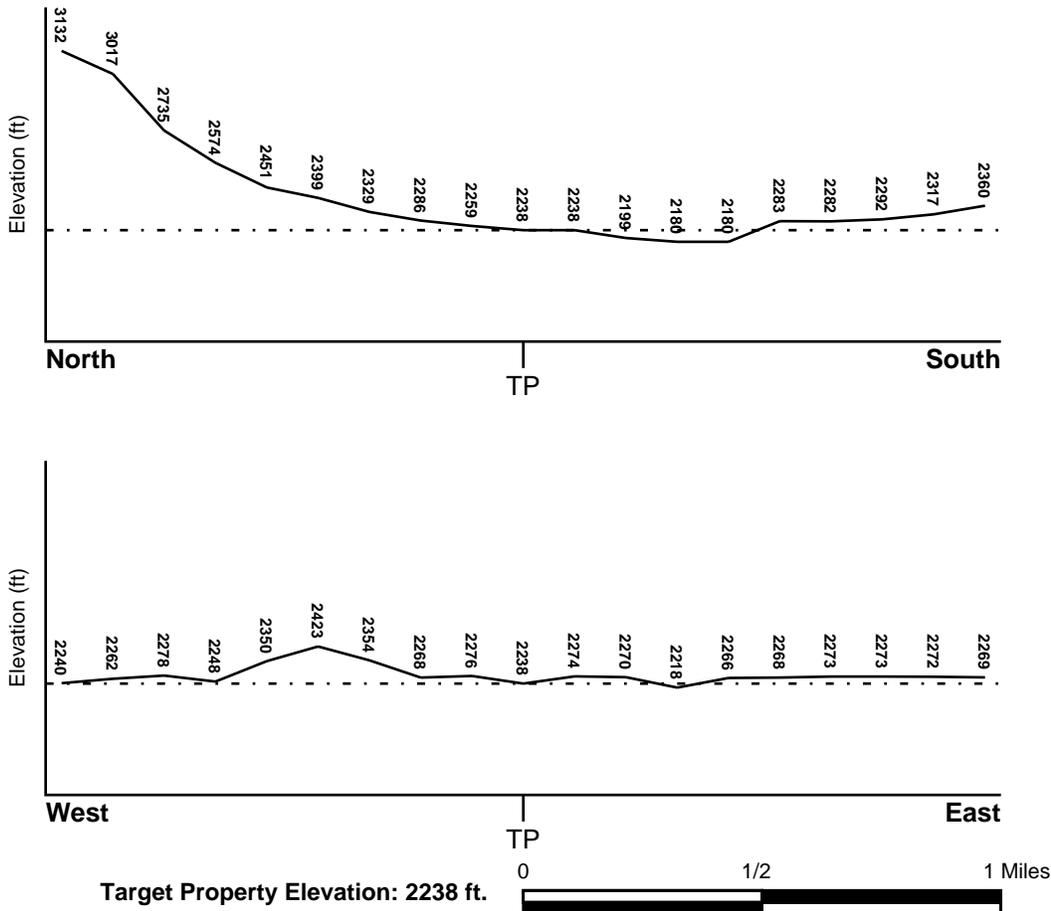
TOPOGRAPHIC INFORMATION

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 SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
3700969900J	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
3700968900J	FEMA FIRM Flood data
3700969800J	FEMA FIRM Flood data
3700968800J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
OTEEN	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: Precambrian
System: Precambrian
Series: Z Sedimentary rocks
Code: Z (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

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: BRADDOCK

Soil Surface Texture: loam

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

Soil Drainage Class: Well drained. 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	loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 6.00 Min: 0.60	Max: 5.50 Min: 3.60
2	9 inches	48 inches	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), Fat Clay.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
3	48 inches	85 inches	loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 6.00 Min: 0.60	Max: 5.50 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinator soil types may appear within the general area of target property.

Soil Surface Textures: gravelly - loam

Surficial Soil Types: gravelly - loam

Shallow Soil Types: loam

Deeper Soil Types: sandy loam
very gravelly - loam
fine sandy loam
stratified

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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	USGS40000888921	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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

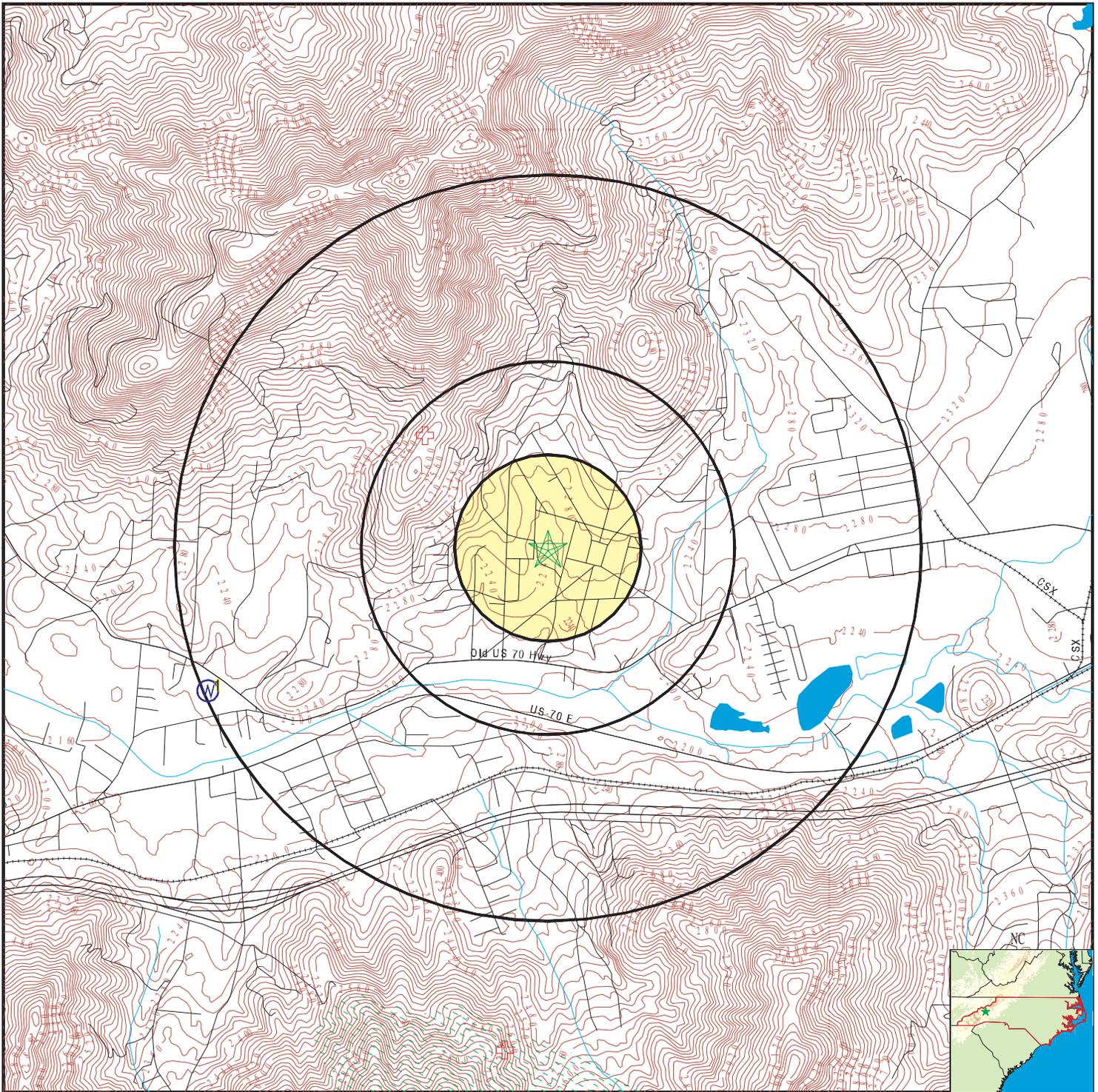
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

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

OTHER STATE DATABASE INFORMATION

PHYSICAL SETTING SOURCE MAP - 6349287.2s



- County Boundary
- Major Roads
- Contour Lines
- 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: Prospective Park - Hawthorne Ave
 ADDRESS: 99999 Hawthorne Ave
 Swannanoa NC 28778
 LAT/LONG: 35.608725 / 82.388391

CLIENT: Natural Geodata, PLLC
 CONTACT: Josh Feierstein
 INQUIRY #: 6349287.2s
 DATE: January 29, 2021 1:53 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1			
WSW		FED USGS	USGS40000888921
1/2 - 1 Mile			
Lower			

Organization ID:	USGS-NC		
Organization Name:	USGS North Carolina Water Science Center		
Monitor Location:	BU-035	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:	Quartzite	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	61
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:	1970
Feet below surface:	48.5	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

			NC_NHEO	NC50007147
Elclass:	A	Precision1:	M	
Eostat:	X	Gisid:	112044	
Edr id:	NC50007147			

			NC_NHEO	NC50020349
Elclass:	P	Precision1:	S	
Eostat:	E	Gisid:	562055	
Edr id:	NC50020349			

			NC_SNHA	NC10000498
Acres:	1174.59	Sitename:	FLAT TOP MOUNTAIN/SWANNANOVA COVE	
Quality type:	Not Reported	Sig:	C	
Site id:	498	Edr id:	NC10000498	

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
63	3.08	0.3	7.9
5	4.70	2	8.1

Federal EPA Radon Zone for BUNCOMBE County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 28778

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.850 pCi/L	0%	100%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

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

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

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

State Wetlands Data: 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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Prospective Park - Hawthorne Ave

99999 Hawthorne Ave

Swannanoa, NC 28778

Inquiry Number: 6349287.3

January 29, 2021

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

01/29/21

Site Name:

Prospective Park - Hawthorne ,
99999 Hawthorne Ave
Swannanoa, NC 28778
EDR Inquiry # 6349287.3

Client Name:

Natural Geodata, PLLC
58 Pittman Road
Fletcher, NC 28732
Contact: Josh Feierstein



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

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

Certified Sanborn Results:

Certification # 2211-4FB1-8B26
PO # 35020121
Project Prospective Park - Grovemont

UNMAPPED PROPERTY

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Prospective Park - Hawthorne Ave

99999 Hawthorne Ave

Swannanoa, NC 28778

Inquiry Number: 6349287.4

January 29, 2021

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

01/29/21

Site Name:

Prospective Park - Hawthorne ,
99999 Hawthorne Ave
Swannanoa, NC 28778
EDR Inquiry # 6349287.4

Client Name:

Natural Geodata, PLLC
58 Pittman Road
Fletcher, NC 28732
Contact: Josh Feierstein



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Natural Geodata, PLLC 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.#	35020121	Latitude:	35.608725 35° 36' 31" North
Project:	Prospective Park - Grovemont	Longitude:	-82.388391 -82° 23' 18" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	374248.42
		UTM Y Meters:	3941438.97
		Elevation:	2238.00' above sea level

Maps Provided:

2013
1997, 2000
1990, 1994
1902
1900

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Topo Sheet Key

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

2013 Source Sheets



Oteen
2013
7.5-minute, 24000



Black Mountain
2013
7.5-minute, 24000



Craggy Pinnacle
2013
7.5-minute, 24000



Montreat
2013
7.5-minute, 24000

1997, 2000 Source Sheets



Craggy Pinnacle
1997
7.5-minute, 24000
Aerial Photo Revised 1976



Oteen
2000
7.5-minute, 24000
Aerial Photo Revised 1987

1990, 1994 Source Sheets



Oteen
1990
7.5-minute, 24000
Aerial Photo Revised 1987



Montreat
1994
7.5-minute, 24000
Aerial Photo Revised 1994



Black Mountain
1994
7.5-minute, 24000
Aerial Photo Revised 1994

1902 Source Sheets



Mount Mitchell
1902
30-minute, 125000

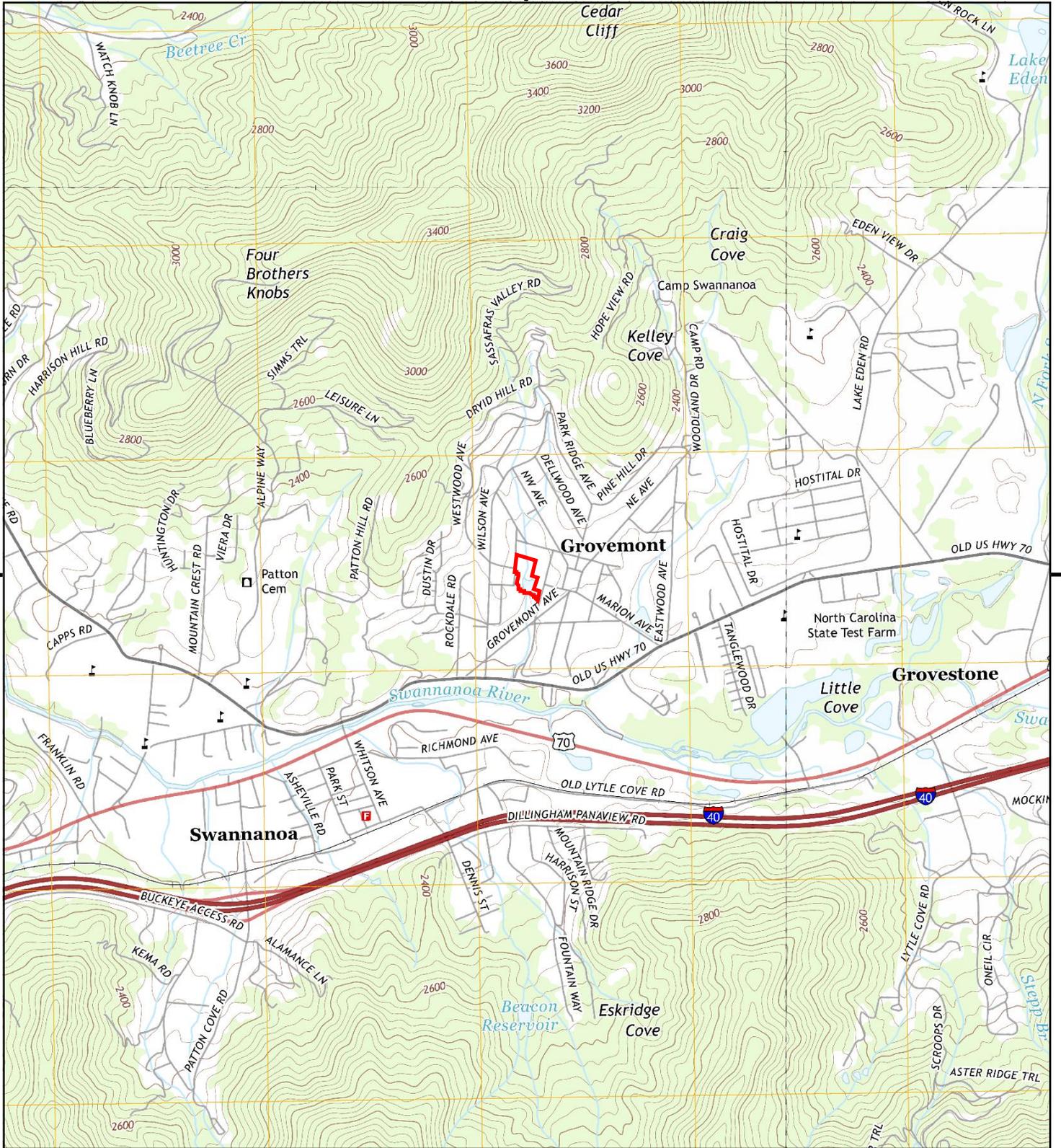
Topo Sheet Key

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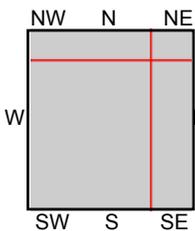
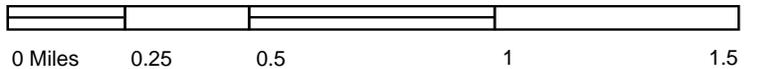
1900 Source Sheets



Mount Mitchell
1900
30-minute, 125000



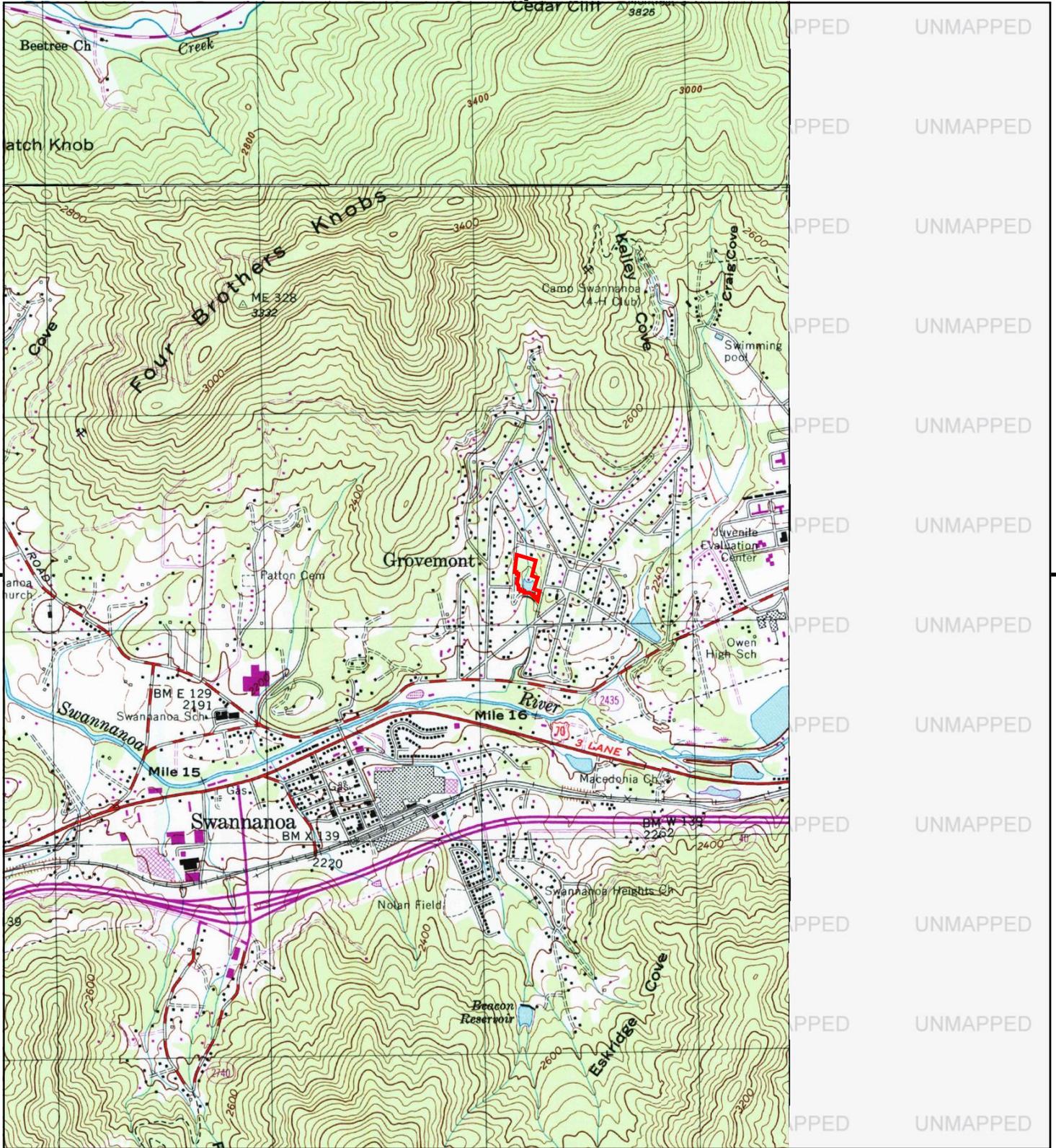
This report includes information from the following map sheet(s).



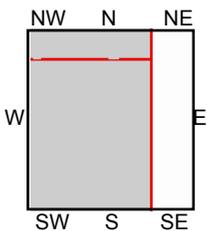
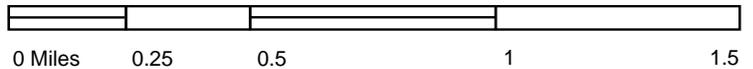
TP, Oteen, 2013, 7.5-minute
 NE, Montreat, 2013, 7.5-minute
 SE, Black Mountain, 2013, 7.5-minute
 NW, Craggy Pinnacle, 2013, 7.5-minute

SITE NAME: Prospective Park - Hawthorne Ave
ADDRESS: 99999 Hawthorne Ave
 Swannanoa, NC 28778
CLIENT: Natural Geodata, PLLC





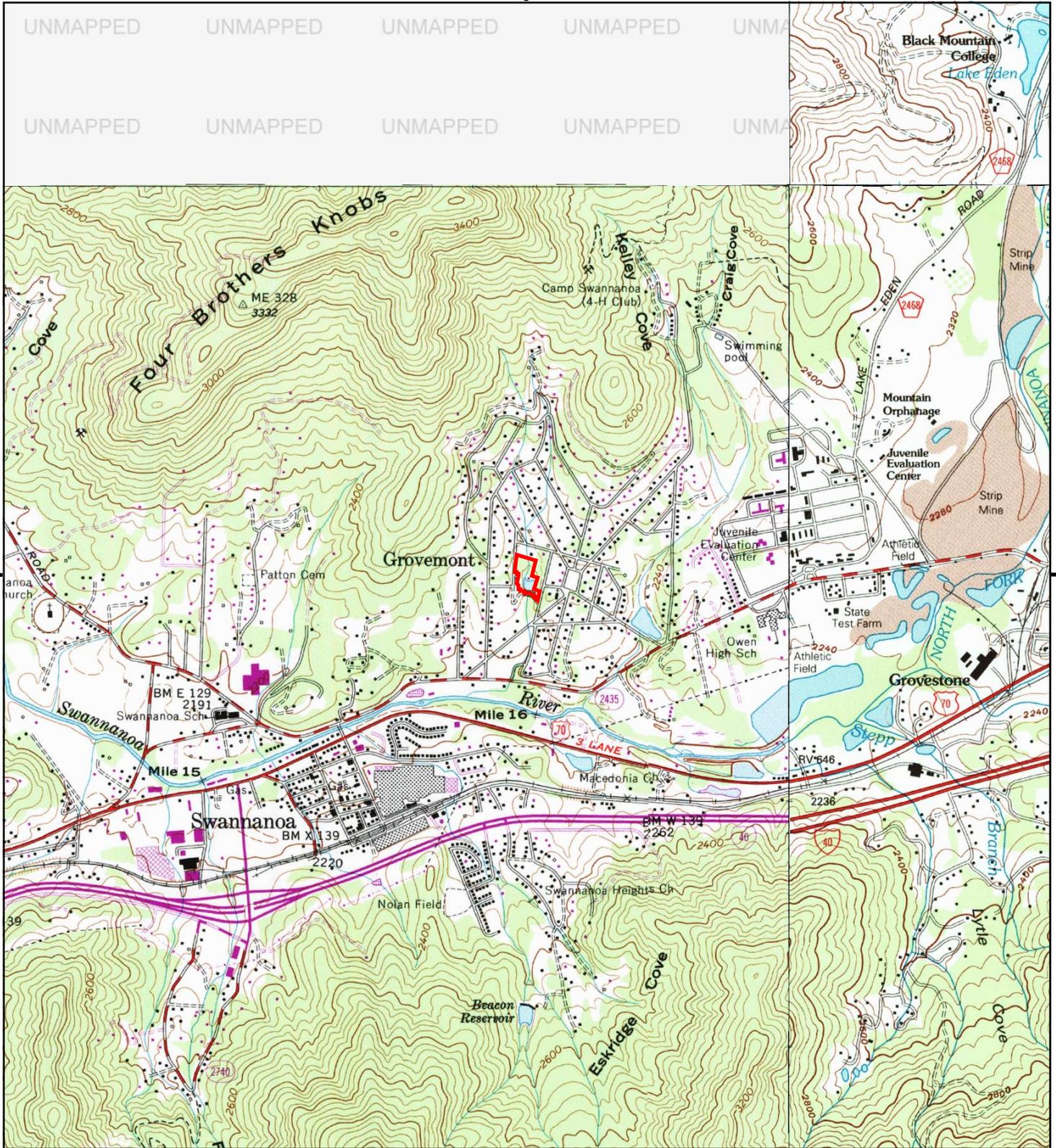
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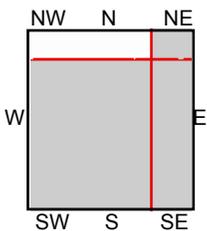
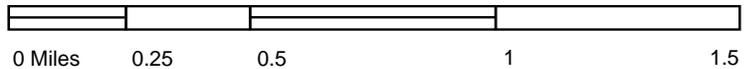
TP, Oteen, 2000, 7.5-minute
 NW, Craggy Pinnacle, 1997, 7.5-minute

SITE NAME: Prospective Park - Hawthorne Ave
ADDRESS: 99999 Hawthorne Ave
 Swannanoa, NC 28778
CLIENT: Natural Geodata, PLLC





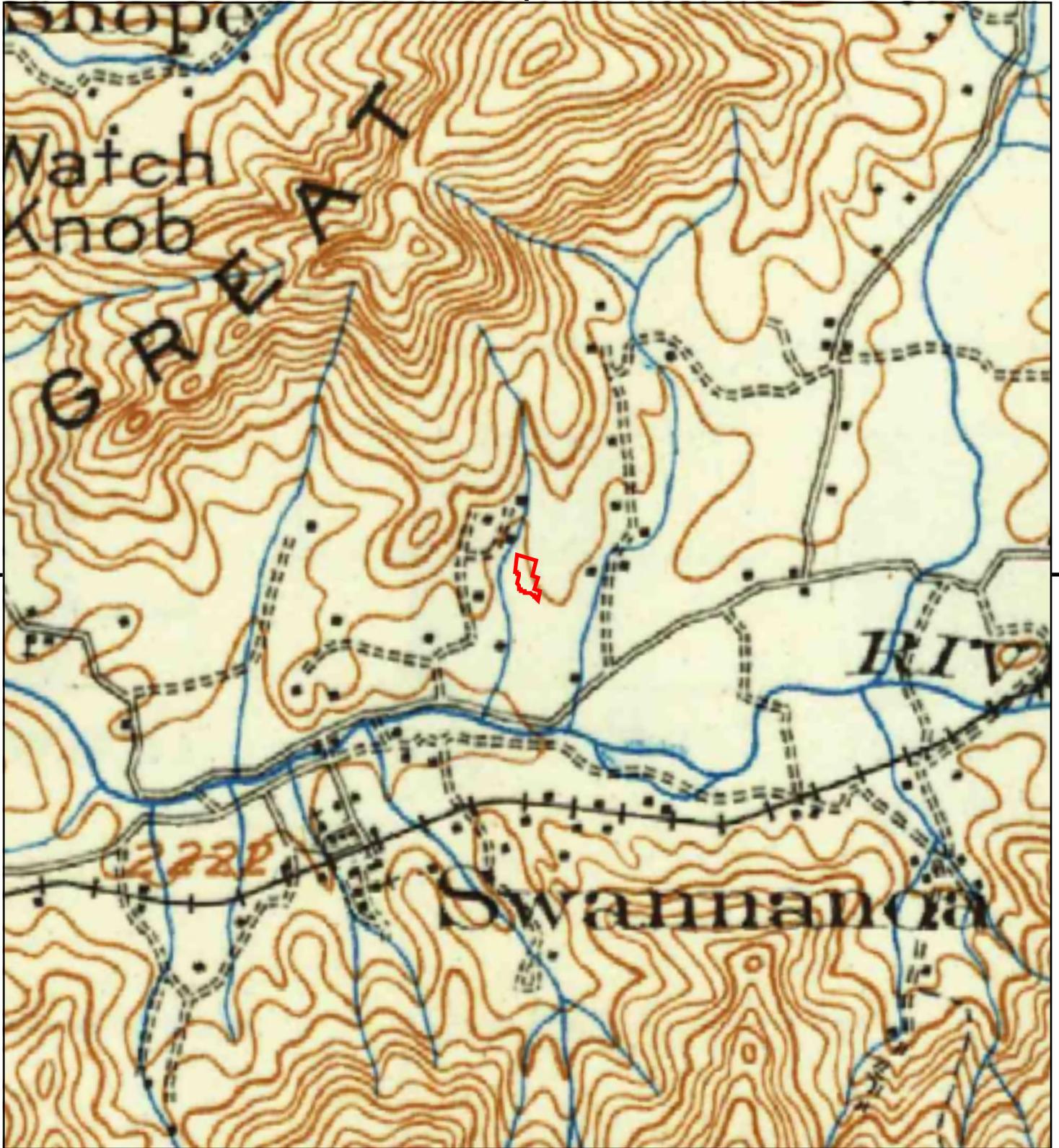
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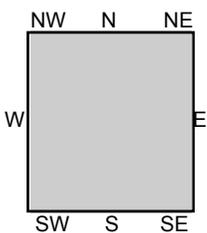
TP, Oteen, 1990, 7.5-minute
NE, Montreat, 1994, 7.5-minute
SE, Black Mountain, 1994, 7.5-minute

SITE NAME: Prospective Park - Hawthorne Ave
ADDRESS: 99999 Hawthorne Ave
Swannanoa, NC 28778
CLIENT: Natural Geodata, PLLC





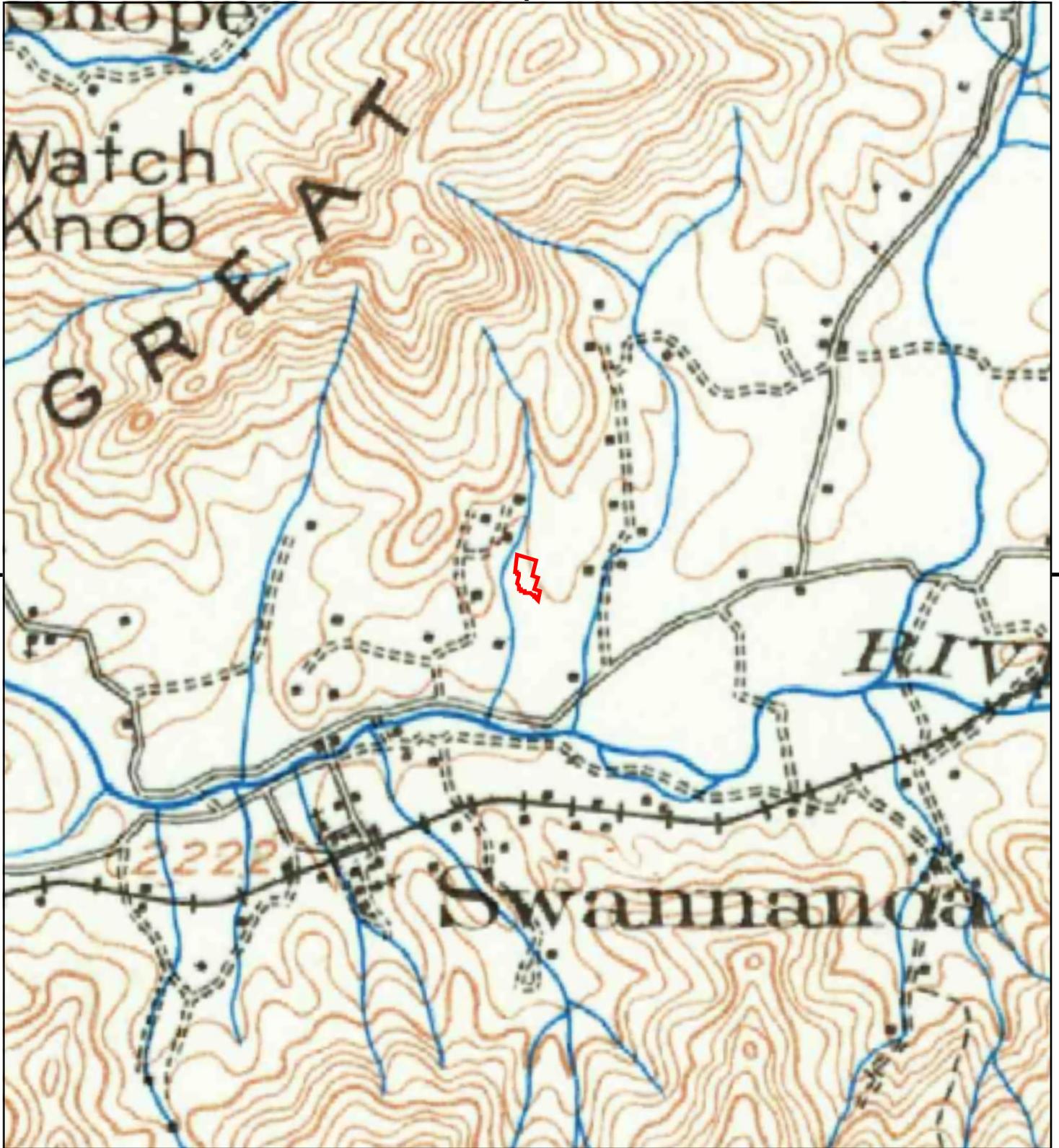
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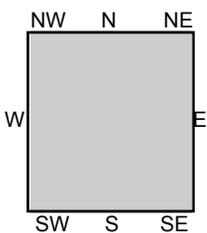
TP, Mount Mitchell, 1902, 30-minute

SITE NAME: Prospective Park - Hawthorne Ave
ADDRESS: 99999 Hawthorne Ave
Swannanoa, NC 28778
CLIENT: Natural Geodata, PLLC





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



TP, Mount Mitchell, 1900, 30-minute

SITE NAME: Prospective Park - Hawthorne Ave
ADDRESS: 99999 Hawthorne Ave
Swannanoa, NC 28778
CLIENT: Natural Geodata, PLLC



APPENDIX E
REGULATORY REVIEW FILES



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL SCOTT
Director

November 5, 2020

Carl and Sharon Zeigler
101 Hawthorne Avenue
Swannanoa, NC 28778

Re: Notice of Regulatory Requirements
15A NCAC 2L .0506(d)
Risk-based Assessment and Corrective
Action for Aboveground Storage Tanks
Zeigler Residence
101 Hawthorne Drive, Swannanoa
Buncombe County
Incident Numbers: 95808
Priority ranking: Low/Residential

Dear Mr. & Mrs. Zeigler:

I have reviewed the October 31, 2020 Limited Site Assessment Report by Martin & Slagle Geosciences, PA. According to the report, residual soil contamination exceeds North Carolina's unrestricted use standards. However, based on site-specific information and in accordance with 15A NCAC 2L .0506(d), the Department of Environmental Management determines that contamination poses no significant risk to human health or the environment. Therefore, the incident is ranked low priority/residential and you are not directed to proceed with additional assessment or corrective action.

Be advised that although soil contamination at the site exceeds unrestricted use standards for a low priority site, it is possible to receive a final no further action determination. To receive this determination, a Notice of Residual Petroleum (NRP) for soil contamination must be filed with the Buncombe County Register of Deeds and public notice requirements must be completed. This office is prepared to issue a "conditional" no further action letter upon receipt of a completed NRP. The conditional no further action letter is to be used for public notice.

If you have any questions regarding the actions that must be taken of the rules mentioned in this letter, please contact me at the address or telephone number listed below.

Sincerely,

A handwritten signature in black ink that reads "Michael Streeter".

Michael Streeter, L.G.

Hydrogeologist

DEQ, DWM, UST Section, Asheville Regional Office

Robert Martin, Martin & Slagle Geosciences <rmartin@martinandslagle.com>

Asheville Regional Office – 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL SCOTT
Director

July 21, 2020

Carl and Sharon Zeigler
101 Hawthorne Avenue
Swannanoa, NC 28778

Re: Notice of Regulatory Requirements
15A NCAC 2L .0505
Risk-based Assessment and Corrective
Action for Aboveground Storage Tanks

Zeigler Residence
101 Hawthorne Drive, Swannanoa
Buncombe County
Incident Numbers: 95801

Dear Mr. & Mrs. Zeigler:

I have reviewed the July 2020 AST Initial Assessment Report by Martin & Slagle Geosciences, PA (MSGs). According to the report, the analytical results of soil sampling indicate contaminant concentration levels that exceed North Carolina's residential maximum soil contaminant concentrations. Therefore, I agree with MSGs recommendation that a Phase I Limited Site Assessment (LSA) be completed for the project site as required by 15A NCAC 02L .0505. This office does not require installation of a groundwater monitoring well or groundwater sampling to complete the LSA. The LSA must be submitted to this office by October 31, 2020.

Because a release or discharge has been confirmed, a Licensed Geologist or a Professional Engineer, certified by the State of North Carolina, is required to prepare and certify all reports submitted to the Department of Environmental Quality in accordance with Title 15A NCAC 2L .0103(e) and 2L .0111(b).

Please be aware that before you sell, transfer, or request a "No Further Action" determination for a property that has not been remediated to below "unrestricted use" standards, you must file a Notice of Residual Petroleum with the Buncombe County Register of Deeds (NCGS 143B-279.9 and 143B-279.10).

Failure to comply with the State's rules in the manner and time specified may result in the assessment of civil penalties and/or the use of other enforcement mechanisms.

If you have any questions regarding the actions that must be taken of the rules mentioned in this letter, please contact me at the address or telephone number listed below.

Sincerely,

Michael Streeter

Michael Streeter, L.G.

Hydrogeologist

DEQ, DWM, UST Section, Asheville Regional Office

Robert Martin, Martin & Slagle Geosciences < rmartin@martinandslagle.com >

Asheville Regional Office – 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

For Non-UST Releases of Petroleum in NC This form should be completed and submitted to the UST Section's regional office following a known or suspected release of petroleum from a source other than an underground storage tank. This form is required to be submitted within 24 hours of discovery of a known or suspected petroleum release

(DWM USE ONLY) Incident # _____ Priority Rank (H,I,L,U) _____ Received (time/date) _____ Received by _____ Region _____ Reported by (circle one): Phone, Fax or Report _____

Suspected Contamination? (Y/N) Y Confirmed GW Contamination? (Y/N) N Confirmed Soil Contamination? (Y/N) Y Samples taken?(Y/N) N Free product? (Y/N) N If Yes(free product), state greatest thickness: _____ feet

Release discovered (time/date): 3/24/20

INCIDENT DESCRIPTION

Incident Name: Zeigler Residence Address (street number/name): 101 Hawthorne Avenue County: Buncombe City/Town: Swannanoa Zip Code: 28778 Regional Office (circle one): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem Latitude (decimal degrees): 35.607965 Longitude (decimal degrees) : -82.389453 Describe suspected or confirmed release (nature of release, time/date of release, quantity of release, amount of free product): A leak was discovered in piping associated with two 550 gallon ASTs that were manifolded together. The release appears to have been on-going for sometime but the date and time it started is unknown. Describe initial response/abatement (time/date release stopped, cleanup begun/completed, quantity of product soil removed, confirmation sampling): No initial response activities have been conducted. Describe impacted receptors: Neighborhood is on public water supply and the nearest surface water body is 290 feet from the source. Vapor intrusion does not yet appear to be a concern. Obtained by: [] GPS [] Electronic topographic map [] GIS Address matching [X] Other [] Unknown Describe location: Google Earth

HOW RELEASE WAS DISCOVERED (Release Code) (Check one)

- [] Observation of Release at Occurrence [X] Visual or Olfactory Evidence [] Soil Contamination [] Groundwater Contamination [] Water Supply Well Contamination [] Surface Water Contamination [] Other (specify) _____

SOURCE OF CONTAMINATION

Source of Release (Check one to indicate primary source): [] AST (tank) [X] AST Piping/ Dispenser [] AST Delivery Problem [] OTR Vehicle Tank [] OTR Bulk Transport Tank [] RR Bulk Transport Tank [] Transformer [] Unknown [] Other _____ Cause of Release (Check one to indicate primary cause): [] Spill (Accidental) [] Spill (Intentional) [X] Corrosion [] Physical or Mechanical Damage [] Equipment Failure [] AST Overfill [] AST Installation Problem [] Unknown [] Other _____ Type of Release (Check one): [X] Petroleum [] Both Petroleum & Non-Petroleum Location (Check one): [] Facility [X] Residence [] Highway/Road [] Railway [] Other Product Type Released (Check one to indicate primary petroleum product type released): [] Gasoline/ Diesel/ Kerosene [] Diesel/Veg. Oil Blend [] E11 - E20 [] E21 - E84 [] E85 - E99 [] Ethanol 100% [] Vegetable Oil 100% [X] Heating Oil [] Waste Oil [] Mineral Oil-no PCBs [] Mineral Oil-PCBs [] Other Petroleum Products _____

Ownership 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining Guidance presented on reverse

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3. **Unknown** Number of Water Supply Wells Affected _____

List of Water Supply Wells Contaminated: *(Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)*

- 1.
- 2.
- 3.

PARTY RESPONSIBLE FOR RELEASE

(if the source of the release is not an AST system or if it is an AST system and there is a responsible party other than the AST system owner/ operator)

Name of Person/Company Carl and Sharon Zeigler		Address 101 Hawthorne Drive	
City Swannanoa	State NC	Zip Code 28778	Telephone Number 828-301-2529

AST SYSTEM OWNER *(if the source of the release is an AST system)*

AST Owner/Company Same		Address	
City	State	Zip Code	Telephone Number

AST SYSTEM OPERATOR *(if the source of the release is an AST system)*

UST Operator/Company Same		Address	
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF INCIDENT

Landowner Same		Address	
City	State	Zip Code	Telephone Number

Draw Sketch of Area or Provide Map *(showing incident site, location of release, two major road intersections, potential receptors)*

Attach sketch or map to form.

Give Directions to Incident Site *Attach directions to form if necessary.*

Person Reporting Incident Robert Martin	Company Martin & Slagle GeoSciences, PA	Telephone Number 828-669-3929
Title Principal Geologist	Address PO Box 1023, Blacl Mountain, NC 28711	Date 3/24/20

UST Form 62 (04/10)

Page 2 of 2

Definitions of Sources

- AST (Tank): means the tank is used to store product
- AST Piping: means the piping and connectors running from the tank to the dispenser or other end-use equipment
- AST Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping
- AST Delivery Problem: identifies releases that occurred during product delivery to the tank.
- OTR Vehicle Tank: means the tank is used to store product to fuel an over the road vehicle
- OTR Bulk Transport Tank: means a tank that is used to transport product in bulk over the road (by truck)
- RR :bulk Transport Tank: means a tank that is used to transport product in bulk by train
- Transformer: means electrical transformer
- Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories
- Unknown: identifies releases for which the source has not been determined

Definitions of Causes

- Spill (Accidental): use this cause when a spill occurs accidentally(e.g., when the delivery hose is disconnected from a fill pipe)
- Spill (Intentional): use this cause when a spill occurs intentionally (e.g., intentional dumping or breakage)
- Corrosion: use when a metal tank, piping, or other component has a release due to corrosion
- Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion
- Equipment failure: use when a release occurs due to equipment failure other than corrosion or physical or mechanical damage
- AST Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)
- AST Installation Problem: use when the problem is determined to have occurred specifically because the AST system was not installed properly
- Other: use this option when the cause is known but does not fit into one of the preceding categories
- Unknown: use when the cause has not been determined

Guidance: Ownership and Operator Type

- Ownership select the category which describes owner of the AST system, bulk transport tank, or other release source
- Operator Type select the category which describes the operation in which owner uses the AST system, bulk transport tank, or other release source



MARTIN & SLAGLE

GeoSciences, PA
 PO Box 1023
 Black Mountain, NC 28711
 828.669.3929 828.669.5289

Scale: 1" = 200'

DATE: 3/24/20

DR: RLM

UST-62 SITE LOCATION MAP

Zeigler Residence
 101 Hawthorne Drive
 Swannanoa, NC

PREPARED FOR: Carl and Sharon Zeigler

FIGURE 1

AST INITIAL ASSESSMENT REPORT

**Zeigler Residence
101 Hawthorne Avenue
Swannanoa, North Carolina 28778**

MSGs PROJECT NUMBER: ZR20-01

July 2020

AST INITIAL ASSESSMENT REPORT

**Zeigler Residence
101 Hawthorne Avenue
Swannanoa, North Carolina 28778**

MSGs PROJECT NUMBER: ZR20-01

Prepared by:

MARTIN & SLAGLE GEOSCIENCES, PA

PO Box 1023

Black Mountain, North Carolina 28711

(828) 669-3929

FAX (828) 669-5289

July 2020

Certification

I, Robert L. Martin, a Licensed Geologist for Martin & Slagle, GeoSciences, PA, do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Robert L. Martin, LG
Principal Geologist
NC Licensed Geologist No. 391



Martin & Slagle, GeoSciences, PA is licensed to practice geology in North Carolina. The certification number of the company or corporation is **C-375**.

AST INITIAL ASSESSMENT REPORT
Zeigler Residence
Swannanoa, North Carolina

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SITE INFORMATION	2
2.1	Site Identification	2
2.2	Contact Information	2
2.3	Release Information.....	2
3.0	SITE HISTORY AND CHARACTERIZATION	3
3.1	AST Owner & Operator Information.....	3
3.2	AST Information	4
3.3	Non-UST Information.....	4
3.4	Release Description	4
3.5	Site Characteristics.....	4
3.6	Summary of Actions Performed & Reports Submitted to Date	5
4.0	INITIAL RESPONSE AND ABATEMENT ACTIONS	6
4.1	Initial Response Actions	6
4.2	Initial Abatements Actions.....	6
5.0	EXCAVATION OF CONTAMINATED SOIL	7
5.1	Source and Extent of Soil Contamination	7
5.2	Excavation Process.....	7
5.3	Post-Excavation Confirmation Soil Sampling.....	7
5.4	Soil Assessment	7
5.5	Disposal of Contaminated Soil.....	7
6.0	ANALYTICAL RESULTS	8
7.0	INITIAL ABATEMENT ACTION CONCLUSION AND RECOMMENDATIONS	9

Table of Contents

(cont.)

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Vicinity Map

Figure 3 – Sample Map

TABLES

Table 1 – Soil Analytical Results for VOCs, SVOCs and MADEP-VPH, EPH, TPH-DRO and GRO

APPENDICES

Appendix A – UST-62 24-Hour Notification of Discharge Form

Appendix B – Laboratory Reports

Appendix C – Soil Disposal Manifest

1.0 INTRODUCTION

Martin & Slagle GeoSciences, PA (MSGs) has prepared this *AST Initial Assessment Report* on behalf of Carl and Sharon Zeigler. This report documents the release confirmation and initial response and abatement actions performed to address the release identified at the Zeigler property located at 101 Hawthorne Avenue, Swannanoa, NC (hereafter referred to as the project site). Initial response and abatement actions were conducted following the removal and disposal of two 275-gallon fuel oil above ground storage tanks (ASTs).

This report has been prepared pursuant to applicable sections of the Oil Pollution and Hazardous Substance Control Act of 1978, Title 15A, North Carolina Administrative Code (NCAC), Chapter 2, Subchapter L and in accordance with the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management (DWM), Underground Storage Tank Section, Non-UST Petroleum Releases *Guidelines for Initial Response and Abatement Action for Non-UST Petroleum Releases*, July 1, 2012.

2.0 SITE INFORMATION

2.1 Site Identification

Date of Report: July 9, 2020		
Facility ID: Residential Non-UST Petroleum Tank	Incident No.:	
Site Name: Zeigler Residence		
City/Town: Swannanoa	Zip: 28778	County: Buncombe
Description of Geographical Data Point: Location of Former ASTs		
Location Method: Google Earth GPS		
Latitude (decimal degrees): 35.607965	Longitude (decimal degrees): -82.389465	

2.2 Contact Information

AST Owner: Carl and Sharon Zeigler	
Address: 101 Hawthorne Avenue, Swannanoa, NC 28778	Telephone: 828-301-2529
AST Operator: Same as above	
Address: Same as above	Telephone: Same as above
Property Owner: Same as Above	
Address: Same as Above	Telephone: Same as above
Property Occupant: Same as above	
Address: Same as above	Telephone: Same as above
Consultant: Martin & Slagle GeoSciences, PA	
Address: PO Box 1023, Black Mtn., NC 28711	Telephone: 828-669-3929
Contractor: Wheeler Grading and Construction	
Address: 320 Tabernacle Road, Black Mountain, NC 28711	Telephone: 828-776-0332
Analytical Laboratory: Pace Analytical Services, LLC; Certification: Field Services 5342/DW37706/WW12	
Address: 2225 Riverside Drive, Asheville, NC 28804	Telephone: 828-254-7176

2.3 Release Information

Date Discovered: 3/24/20
Estimated Quantity of Release: Unknown
Cause of Release: Corrosion of product lines, connections
Source of Release: Residential Non-UST Petroleum Tank (heating oil)
Sizes and Contents of AST System(s) from which Release Occurred: Two 275-gallon residential fuel oil ASTs

3.0 SITE HISTORY AND CHARACTERIZATION

The project site is situated on a parcel approximately 0.91 acres in size. The parcel is located in a residential area with neighboring houses within 90 feet. The property consists of a single-family residence with the former ASTs located on the north side of the house. It is unknown when the ASTs were installed. The AST was used to store fuel for the home’s oil-fired furnace.

A site location map is provided in **Figure 1**, and a site vicinity map is provided in **Figure 2**.

3.1 AST Owner and Operator Information

Table B-2: Site History – AST Owner/Operator and Other Responsible Party Information
 Revision Date: N/A, Incident Number & Name: #None Assigned, Facility ID#: NA:

AST ID Number	NA	Facility Number	ID	NA
Name of Owner		Dates of Operation		
Carl and Sharon Zeigler		Initial date unknown; closed on 5/6/20		
Street Address				
101 Hawthorne Avenue				
City	State	Zip	Telephone Number	
Swannanoa	NC	28778	828-301-2529	
Name of Operator		Dates of Operation		
Same		same		
Street Address				
same				
City	State	Zip	Telephone Number	
same				
Incident Number				
Name of Other Responsible Party		Dates of Releases		
None		Release reported 3/24/20		
Street Address				
N/A				
City	State	Zip	Telephone Number	
N/A	N/A	N/A	N/A	

3.2 AST Information

Table B-1: Site History – AST System and Other Release Information

Revision Date: N/A, Incident Number & Name: None Assigned

Facility ID#: NA

Tank No.	Current/ Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Associated Piping	Install Date	AST Status	Release from AST?
1	Heating Oil	Heating Oil	275	Steel	27"x 44"x 60"	Copper tubing	UKN	Closed by removal	Yes
2	Heating Oil	Heating Oil	275	Steel	27"x 44"x 60"	Copper tubing	UNK	Closed by removal	Yes

Incident No.	Material Released	Date of Release	Description of Release
41358	Heating Oil	Reported	Associated with corrosion of the AST

3.3 Non-UST Information

One 275-gallon above ground storage tank (AST) was installed in the north side of the house to replace the two decommissioned ASTs.

3.4 Release Description

As reported by the owners, soil impacted by petroleum was present beneath the two ASTs. The release appeared to be from leaking product lines.

3.5 Site Characteristics

The project site is a 0.91-acre parcel that includes a residence built in 1937. The parcel is situated in a residential area with neighboring houses within 90 feet.

The project site is located on a gently sloping lot at an elevation of approximately 2,284 feet above mean sea level (msl) with topographic relief across the site of approximately 13 feet. The land slopes toward the east. A tributary of Swannanoa River is located approximately 290 feet east of the project site. The site soils consist of residuum derived from chemical and physical weathering of the underlying crystalline bedrock. Bedrock is comprised of metagraywacke which is massive to foliated interlayered mica schist, muscovite-biotite gneiss, and rare graphitic schist.

3.6 Summary of Actions Performed & Reports Submitted to Date

Two 275-gallon heating oil ASTs were removed from the project site by the owner prior to soil removal activities. During remediation activities, 26.68 tons of contaminated soil were excavated. After soil removal, five soil samples were collected: one each of the excavation sidewalls and one from the base of the excavation site. All confirmation samples were submitted to a North Carolina certified laboratory (Pace Analytical Services, LLC) for analyses. All five

samples were analyzed for Total Petroleum Hydrocarbons (TPH)-Gasoline (GRO) and Diesel Range Organics (DRO). The sample collected from the base of the excavation was analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs) and MADEP-Volatile Petroleum Hydrocarbons, and Extractable Petroleum Hydrocarbons (VPH and EPH, respectively).

A UST-62 24-Hour Notification of Discharge Form was submitted to NCDEQ on March 24, 2020 prior to this report. A copy of the UST-62 form is provided in **Appendix A**.

4.0 INITIAL RESPONSE AND ABATEMENT ACTION

4.1 Initial Response Actions

There were no readily identifiable, immediate hazards that appeared to be associated with the release (e.g., receptors, free product, fire, explosion, vapors). Additionally, the primary source had been removed (i.e., removal of the AST), therefore, no additional initial response actions were deemed necessary.

4.2 Initial Abatement Actions

The initial abatement actions following removal of the AST included excavation of impacted soil, field screening as the excavation proceeded, and the collection of confirmation soil samples at conclusion of the excavation activities.

5.0 EXCAVATION OF CONTAMINATED SOIL

5.1 Source and Extent of Soil Contamination

The project site contained two ASTs with leaking product lines. After removal of accessible impacted soil, the excavation measured approximately 10 feet by 11 feet by 9 feet deep. Based on analytical data, these dimensions do not define the extent of soil contamination. No free product or groundwater was encountered during excavation activities. Bedrock was encountered at approximately 9.5 feet below ground surface. The excavation area is depicted in **Figure 3**.

5.2 Excavation Process

Impacted soil was excavated and stockpiled on plastic film on site awaiting removal and transport to Environmental Soils, Inc. in Latimore, NC for disposal. Excavation continued until the house foundation was encountered on the south and east sides, and refusal on bedrock was encountered at nine feet below grade. Grab soil samples were collected from the sidewalls and the bottom of the basin (Figure 3). Each grab soil sample was screened by placing a sample in a quart-sized, Ziploc™ plastic bag, sealing the bag, and allowing headspace vapors to accumulate. The bagged soil was agitated after sealing the bag and immediately prior to obtaining the headspace measurement. The probe of a photoionization detector (PID) was inserted into the plastic bag, and a measurement of the organic vapors was recorded for the sample. Excavation proceeded until 26.68 tons of contaminated soil had been removed from the basin.

5.3 Post-Excavation Confirmation Soil Sampling

When excavation activities were concluded, one confirmation soil sample each was collected from the four basin sidewalls. A fifth soil sample was collected from the bottom of the basin. Sidewall samples were collected at five feet below grade for all sidewall samples. The collection depth for the bottom sample was approximately nine feet below grade. Confirmation soil sample locations are depicted in **Figure 3**.

5.4 Soil Assessment

Upon collection, the samples were placed in laboratory-supplied containers, labeled, set on ice in a cooler, and documented on the chain-of-custody. The samples were shipped to the project laboratory for analyses by EPA Methods 8015C, 8260C, 8270E and MADEP-VPH and EPH. The analytical results for the confirmation soil samples indicate that impacted soil remains on the project site. The results are summarized in **Table 1**. The laboratory report is provided in **Appendix B**.

5.5 Disposal of Contaminated Soil

The total amount of 26.68 tons of contaminated soil was excavated during the initial abatement action. The soil was temporarily stockpiled, and on June 6, 2020, the soil was transported to Environmental Soils Inc. for disposal. Environmental Soils Inc. is a dedicated land application facility located in Lattimore, NC, which operates under permit number SR0300038. Copies of the soil disposal manifests are provided in **Appendix C**.

6.0 ANALYTICAL RESULTS

Sample results indicate that soil containing petroleum hydrocarbons at concentrations above TPH-DRO and GRO action levels (100 ppm and 50 ppm, respectively) are present in the north, east and south sidewalls. TPH-DRO concentrations range from less than 6.1 milligrams-per-kilogram (mg/kg) in sample AST-1 to 3,190 mg/kg in sample AST-3. The same samples had TPH-GRO concentrations of less than 7.0 mg/kg and 136 mg/kg, respectively. The sample from the base of the excavation had TPH-DRO and TPH-GRO concentrations of 4,470 mg/kg and 561 mg/kg, respectively.

Risk-based analysis was conducted on the excavation bottom sample. The soil sample was analyzed for the parameters described in Section 5.4. A total of 12 VOCs and SVOCs were detected above Soil-to-Groundwater (MSCCs). No VOC or SVOC results exceed the Residential or Industrial MSCCs. Concentrations range from 1.93 mg/kg for naphthalene to 24.8 mg/kg for 1,2,4-trimethylbenzene. Concentrations exceed Soil-to-Groundwater MSCCs for C5-C8, C9-C18 aliphatic hydrocarbons, and C11-C22 aromatic hydrocarbons. C9-C18 aliphatics and C11-C22 aromatics results exceed the Residential MSCCs.

7.0 INITIAL ABATEMENT ACTION CONCLUSIONS AND RECOMMENDATIONS

A total of 26.68 tons of petroleum contaminated soil were removed and transported off site for proper disposal. Neither groundwater nor free product were encountered during excavation. However, bedrock was encountered at approximately 9.5 feet.

Analytical results for confirmation soil samples show that multiple analyte concentrations were found to exceed established Soil-to-Groundwater and Residential Maximum Soil Contaminant Concentrations. Therefore, MSGS recommends that a Phase I Limited Site Assessment (LSA) be completed for the project site as required by 15A NCAC 02L .0505, "Requirements for Limited Site Assessment".

MSGS further recommends that the Phase I LSA be completed without installation of a monitoring well at the site for the following reasons:

1. No groundwater was encountered in the excavation that extended to nine feet below grade.
2. During soil removal activities bedrock was encountered within 9.5 feet of the ground surface. Installing a monitoring well would require extraordinary drilling methods, and water quality within the bedrock zone would not necessarily be affected from the release site.
3. No free product was encountered in the excavation.
4. The surrounding residents are supplied with municipal water.
5. A preliminary reconnaissance of the surrounding residential and community properties revealed no drinking water wells present.

TOPO! map printed on 07/06/20 from "North Carolina.tpo" and "Untitled.tpg"

82°25.000' W

82°24.000' W

82°23.000' W

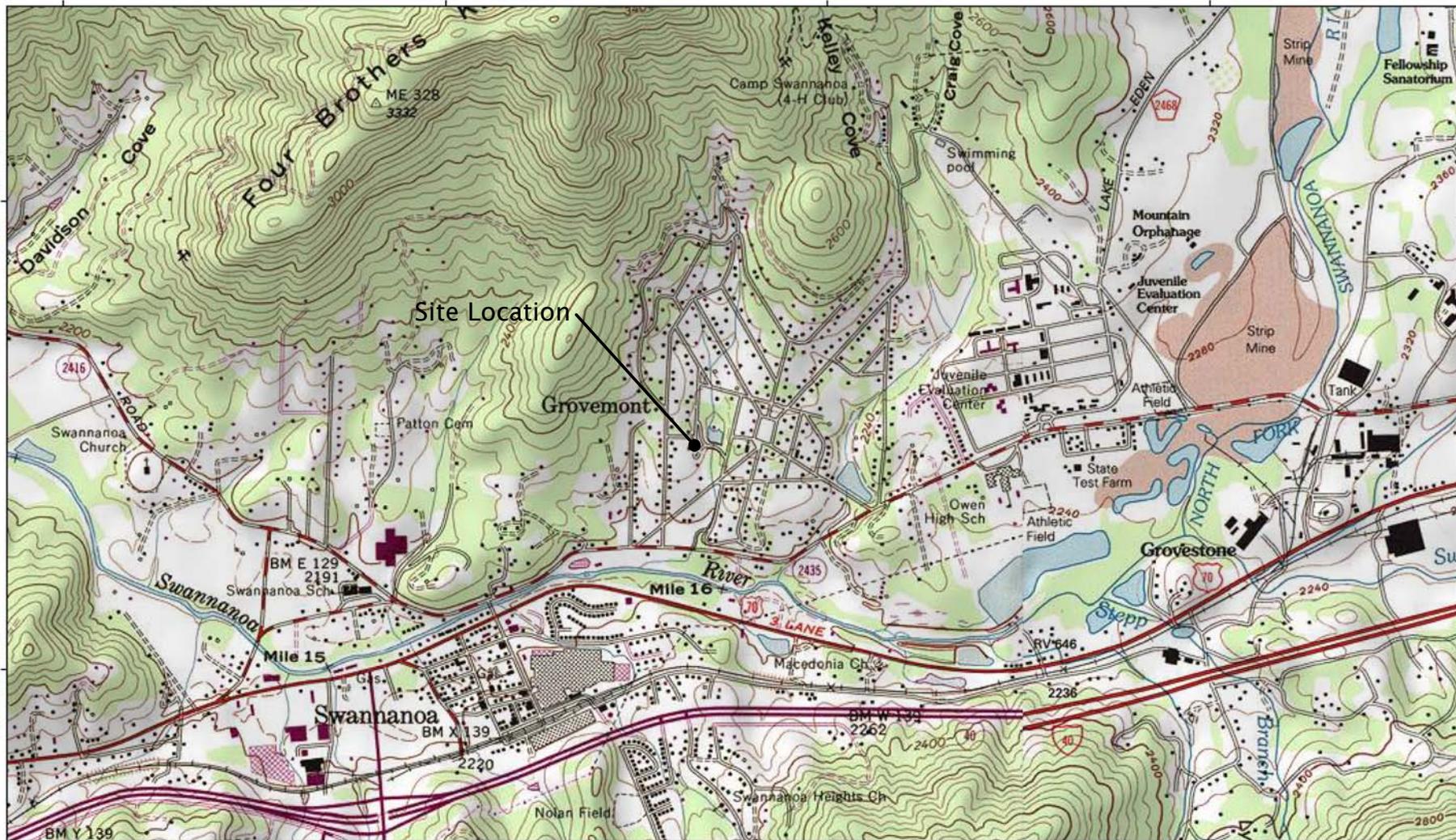
WGS84 82°22.000' W

35°37.000' N

35°37.000' N

35°36.000' N

35°36.000' N



82°25.000' W

82°24.000' W

82°23.000' W

WGS84 82°22.000' W



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GeoSciences, PA **MARTIN & SLAGLE**

PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

Prepared For:

Carl and Sharon Zeigler

1	
2	
3	
4	

SCALE: As Shown

DR: RLM

CHK:

REV: X

DATE: 7/6/20

SITE LOCATION MAP
INITIAL SITE ASSESSMENT MAP

Zeigler Property
101 Hawthorne Avenue
Swannanoa, NC

1

FIGURE



MARTIN & SLAGLE

GeoSciences, PA

PO Box 1023
 Black Mountain NC 28711
 828.669.3929

LEGEND

PREPARED FOR:

Carl and Sharon
 Zeigler

Approx Scale: 1"=50'

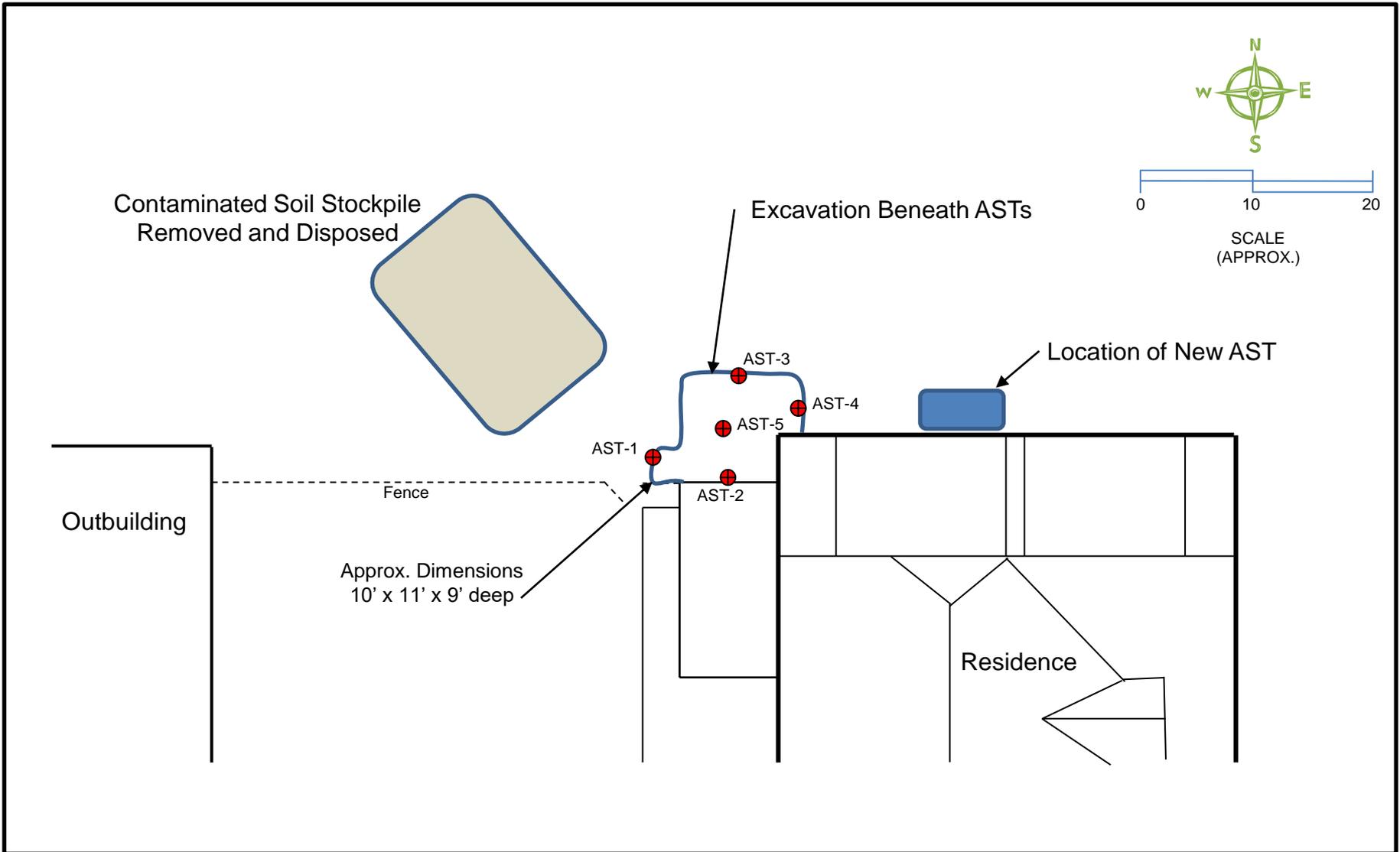
DATE: 7/6/2020

CHK: CES

DR: RLM

SITE VICINITY MAP
 Zeigler AST Soil Remediation
 101 Hawthorne Avenue
 Swannanoa, NC

FIGURE 2



MARTIN & SLAGLE GeoSciences, PA PO Box 1023 Black Mountain NC 28711 828.669.3929	LEGEND Soil Sample Location	PREPARED FOR:	SCALE: As Shown	SITE MAP Zeigler AST Soil Remediation 101 Hawthorne Avenue Swannanoa, NC FIGURE 3
		Carl and Sharon Zeigler	DATE: 7/6/2020	
			CHK: CES	
			DR: RLM	

Table 1

AST Soil Remediation

Soil Analytical Results for VOCs, SVOCs, MADEP-VPH, and MADEP-EPH,
TPH-DRO and GRO
Zeigler AST Site
Swannanoa, North Carolina

Sample ID	NCDEQ MSCCs- STGW ¹	NCDEQ MSCCs- Residential ²	NCDEQ MSCCs- Industrial Commercial ³	AST-1	AST-2	AST-3	AST-4	AST-5
Appx. Sample Depth (ft)				5'	5'	5'	5'	9'
Sample Date				5/6/2020	5/6/2020	5/6/2020	5/6/2020	5/6/2020
Analyses				EPA Method 8015C	EPA Method 8015C	EPA Method 8015C	EPA Method 8015C	EPA Method 8015C, 8260D, 8270E, MADEP- VPH 18-2.1, MADEP- EPH
Compound	mg/kg	mg/kg	mg/kg	Compound Concentrations mg/kg	Compound Concentrations mg/kg	Compound Concentrations mg/kg	Compound Concentrations mg/kg	Compound Concentrations mg/kg
n-Butylbenzene	4.3	626	16,350	NA	NA	NA	NA	6.77
sec-Butylbenzene	3.3	626	16,350	NA	NA	NA	NA	3.67
Ethylbenzene	4.9	1560	40,000	NA	NA	NA	NA	3.77
Isopropylbenzene	1.7	1564	40,880	NA	NA	NA	NA	1.97
p-Isopropyltoluene	0.12	100	4,000	NA	NA	NA	NA	6.08
4-Methyl-2-pentanone (MIBK)	0.4	1200	32,000	NA	NA	NA	NA	9.4
Naphthalene (8260)	0.16	313	8,176	NA	NA	NA	NA	1.93
n-Propylbenzene	1.7	626	16,350	NA	NA	NA	NA	5.33
Toluene	4.3	1200	32,000	NA	NA	NA	NA	2.27
1,2,4-Trimethylbenzene	8.5	782	20,440	NA	NA	NA	NA	25
1,3,5-Trimethylbenzene	8.3	782	20,440	NA	NA	NA	NA	9.14
Xylene (Total)	4.6	3129	81,760	NA	NA	NA	NA	21
m&p-Xylene	NR	NR	NR	NA	NA	NA	NA	12
o-Xylene	NR	NR	NR	NA	NA	NA	NA	8.72
MADEP								
C5-C8 Aliphatics	68	939	24,528	NA	NA	NA	NA	230
C9-C18 Aliphatics	540	1,500	40,000	NA	NA	NA	NA	9860
C19-C36 Aliphatics	Immobile	31,000	810,000	NA	NA	NA	NA	BRL
C11-C22 Aromatics	31	469	12,264	NA	NA	NA	NA	3680
Total Petroleum Hydrocarbons	Action Levels mg/kg			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Diesel Range Organics	100			<6.1	1,200	3,190	761	4,470
Gasoline Range Organics	50			<7.0	136	132	42.2	561
Photoionization Readings (ppm)	NR			1	272	95	80	379

1: North Carolina Department of Environmental Quality (NCDEQ) Maximum Soil Contaminant Concentrations (MSCCs) for Soil-to-Groundwater (STGW).

2: NCDEQ MSCCs for Residential Soil Cleanup Levels.

3: NCDEQ MSCCs for Industrial/Commercial Soil Cleanup Levels.

Concentrations in bold exceed the the lower of NCDEQ MSCCs for STGW, MSCCs-Residential or the TPH Action Levels.

NR: No published regulatory limit

NA: Not Analyzed

APPENDIX A

**UST-62 24-HOUR NOTIFICATION OF DISCHARGE
FORM**

For Non-UST Releases of Petroleum in NC This form should be completed and submitted to the UST Section's regional office following a known or suspected release of petroleum from a source other than an underground storage tank. This form is required to be submitted within 24 hours of discovery of a known or suspected petroleum release

(DWM USE ONLY)
 Incident # _____ Priority Rank (H,I,L,U) _____
 Received (time/date) _____
 Received by _____ Region _____
 Reported by (circle one): Phone, Fax or Report _____

Suspected Contamination? (Y/N) Y
 Confirmed GW Contamination? (Y/N) N
 Confirmed Soil Contamination? (Y/N) Y
 Samples taken?(Y/N) N Free product? (Y/N) N
 If Yes(free product), state greatest thickness: _____ feet

Release discovered (time/date): 3/24/20

INCIDENT DESCRIPTION

Incident Name: Zeigler Residence
 Address (street number/name): 101 Hawthorne Avenue County: Buncombe
 City/Town: Swannanoa Zip Code: 28778 Regional Office (circle one): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem
 Latitude (decimal degrees): 35.607965 Longitude (decimal degrees) : -82.389453
 Describe suspected or confirmed release (nature of release, time/date of release, quantity of release, amount of free product):
A leak was discovered in piping associated with two 550 gallon ASTs that were manifolded together. The release appears to have been on-going for sometime but the date and time it started is unknown.
 Describe initial response/abatement (time/date release stopped, cleanup begun/completed, quantity of product soil removed, confirmation sampling): No initial response activities have been conducted.
 Describe impacted receptors: Neighborhood is on public water supply and the nearest surface water body is 290 feet from the source. Vapor intrusion does not yet appear to be a concern.

Obtained by:
 GPS
 Electronic topographic map
 GIS Address matching
 Other
 Unknown

Describe location:
Google Earth

HOW RELEASE WAS DISCOVERED (Release Code)
 (Check one)

- Observation of Release at Occurrence
- Visual or Olfactory Evidence
- Soil Contamination
- Groundwater Contamination
- Water Supply Well Contamination
- Surface Water Contamination
- Other (specify) _____

SOURCE OF CONTAMINATION

<u>Source of Release</u> (Check one to indicate primary source)	<u>Cause of Release</u> (Check one to indicate primary cause)	<u>Type of Release</u> (Check one)	<u>Product Type Released</u> (Check one to indicate primary petroleum product type released)
<input type="checkbox"/> AST (tank) <input checked="" type="checkbox"/> AST Piping/ Dispenser <input type="checkbox"/> AST Delivery Problem <input type="checkbox"/> OTR Vehicle Tank <input type="checkbox"/> OTR Bulk Transport Tank <input type="checkbox"/> RR Bulk Transport Tank <input type="checkbox"/> Transformer <input type="checkbox"/> Unknown <input type="checkbox"/> Other _____ <i>Definitions presented on reverse</i>	<input type="checkbox"/> Spill (Accidental) <input type="checkbox"/> Spill (Intentional) <input checked="" type="checkbox"/> Corrosion <input type="checkbox"/> Physical or Mechanical Damage <input type="checkbox"/> Equipment Failure <input type="checkbox"/> AST Overfill <input type="checkbox"/> AST Installation Problem <input type="checkbox"/> Unknown <input type="checkbox"/> Other _____ <i>Definitions presented on reverse</i>	<input checked="" type="checkbox"/> Petroleum <input type="checkbox"/> Both Petroleum & Non-Petroleum <u>Location</u> (Check one) <input type="checkbox"/> Facility <input checked="" type="checkbox"/> Residence <input type="checkbox"/> Highway/Road <input type="checkbox"/> Railway <input type="checkbox"/> Other	<input type="checkbox"/> Gasoline/ Diesel/ Kerosene <input type="checkbox"/> E11 – E20 <input type="checkbox"/> E21 – E84 <input type="checkbox"/> E85 – E99 <input type="checkbox"/> Ethanol 100% <input type="checkbox"/> Diesel/Veg. Oil Blend <input type="checkbox"/> Vegetable Oil 100% <input checked="" type="checkbox"/> Heating Oil <input type="checkbox"/> Waste Oil <input type="checkbox"/> Mineral Oil-no PCBs <input type="checkbox"/> Mineral Oil-PCBs <input type="checkbox"/> Other Petroleum Products _____

Ownership
 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type
 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining
Guidance presented on reverse

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3. **Unknown** Number of Water Supply Wells Affected _____

List of Water Supply Wells Contaminated: *(Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)*

- 1.
- 2.
- 3.

PARTY RESPONSIBLE FOR RELEASE

(if the source of the release is not an AST system or if it is an AST system and there is a responsible party other than the AST system owner/ operator)

Name of Person/Company Carl and Sharon Zeigler		Address 101 Hawthorne Drive	
City Swannanoa	State NC	Zip Code 28778	Telephone Number 828-301-2529

AST SYSTEM OWNER *(if the source of the release is an AST system)*

AST Owner/Company Same		Address	
City	State	Zip Code	Telephone Number

AST SYSTEM OPERATOR *(if the source of the release is an AST system)*

AST Operator/Company Same		Address	
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF INCIDENT

Landowner Same		Address	
City	State	Zip Code	Telephone Number

Draw Sketch of Area or Provide Map *(showing incident site, location of release, two major road intersections, potential receptors)*

Attach sketch or map to form.

Give Directions to Incident Site *Attach directions to form if necessary.*

Person Reporting Incident Robert Martin	Company Martin & Slagle GeoSciences, PA	Telephone Number 828-669-3929
Title Principal Geologist	Address PO Box 1023, Blacl Mountain, NC 28711	Date 3/24/20

UST Form 62 (04/10)

Page 2 of 2

Definitions of Sources

AST (Tank): means the tank is used to store product

AST Piping: means the piping and connectors running from the tank to the dispenser or other end-use equipment

AST Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping

AST Delivery Problem: identifies releases that occurred during product delivery to the tank.

OTR Vehicle Tank: means the tank is used to store product to fuel an over the road vehicle

OTR Bulk Transport Tank: means a tank that is used to transport product in bulk over the road (by truck)

RR :bulk Transport Tank: means a tank that is used to transport product in bulk by train

Transformer: means electrical transformer

Other: serves as the option to use when the release source is known but does not fit into one of the preceding categories

Unknown: identifies releases for which the source has not been determined

Definitions of Causes

Spill (Accidental): use this cause when a spill occurs accidentally(e.g., when the delivery hose is disconnected from a fill pipe)

Spill (Intentional): use this cause when a spill occurs intentionally (e.g., intentional dumping or breakage)

Corrosion: use when a metal tank, piping, or other component has a release due to corrosion

Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion

Equipment failure: use when a release occurs due to equipment failure other than corrosion or physical or mechanical damage

AST Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser)

AST Installation Problem: use when the problem is determined to have occurred specifically because the AST system was not installed properly

Other: use this option when the cause is known but does not fit into one of the preceding categories

Unknown: use when the cause has not been determined

Guidance: Ownership and Operator Type

Ownership select the category which describes owner of the AST system, bulk transport tank, or other release source

Operator Type select the category which describes the operation in which owner uses the AST system, bulk transport tank, or other release source



MARTIN & SLAGLE

GeoSciences, PA
 PO Box 1023
 Black Mountain, NC 28711
 828.669.3929 828.669.5289

Scale: 1" = 200'

DATE: 3/24/20

DR: RLM

UST-62 SITE LOCATION MAP

Zeigler Residence
 101 Hawthorne Drive
 Swannanoa, NC

PREPARED FOR: Carl and Sharon Zeigler

FIGURE 1

APPENDIX B

LABORATORY REPORT

May 22, 2020

Mr. Robert Martin
Martin and Slagle
24 Lookout Terrace
Black Mountain, NC 28711

RE: Project: ZEIGLER AST 050620
Pace Project No.: 92476777

Dear Mr. Martin:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lorri Patton
lorri.patton@pacelabs.com
1(828)254-7176
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92476777001	AST-1	EPA 8015C Modified	BAJ	2	PASI-C
		EPA 8015C Modified	MAD	2	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92476777002	AST-2	EPA 8015C Modified	BAJ	2	PASI-C
		EPA 8015C Modified	MAD	2	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92476777003	AST-3	EPA 8015C Modified	BAJ	2	PASI-C
		EPA 8015C Modified	MAD	2	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92476777004	AST-4	EPA 8015C Modified	BAJ	2	PASI-C
		EPA 8015C Modified	MAD	2	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92476777005	AST-5	EPA 8015C Modified	BAJ	2	PASI-C
		MADEP EPH	BAJ	7	PASI-C
		EPA 8015C Modified	MAD	2	PASI-C
		EPA 8270E	BPJ	75	PASI-C
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: AST-1 **Lab ID: 92476777001** Collected: 05/06/20 14:45 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	ND	mg/kg	6.1	1	05/12/20 12:07	05/13/20 12:17		
Surrogates								
n-Pentacosane (S)	53	%	33-129	1	05/12/20 12:07	05/13/20 12:17	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/kg	7.0	1	05/13/20 16:12	05/13/20 22:47		
Surrogates								
4-Bromofluorobenzene (S)	101	%	63-130	1	05/13/20 16:12	05/13/20 22:47	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte								
Percent Moisture	17.0	%	0.10	1		05/11/20 13:19		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: AST-2 **Lab ID: 92476777002** Collected: 05/06/20 15:01 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	1200	mg/kg	30.7	5	05/12/20 12:07	05/13/20 14:43		
Surrogates								
n-Pentacosane (S)	76	%	33-129	5	05/12/20 12:07	05/13/20 14:43	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	136	mg/kg	6.2	1	05/13/20 16:12	05/13/20 23:15		
Surrogates								
4-Bromofluorobenzene (S)	308	%	63-130	1	05/13/20 16:12	05/13/20 23:15	460-00-4	S5
Percent Moisture								
Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte								
Percent Moisture	19.1	%	0.10	1		05/11/20 13:19		

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ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: AST-3 **Lab ID: 92476777003** Collected: 05/06/20 15:25 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	3190	mg/kg	63.8	10	05/12/20 12:07	05/13/20 14:43		
Surrogates								
n-Pentacosane (S)	0	%	33-129	10	05/12/20 12:07	05/13/20 14:43	629-99-2	S4
Gasoline Range Organics								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	132	mg/kg	14.1	1	05/14/20 16:52	05/15/20 02:04		
Surrogates								
4-Bromofluorobenzene (S)	279	%	63-130	1	05/14/20 16:52	05/15/20 02:04	460-00-4	S5
Percent Moisture								
Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte								
Percent Moisture	21.8	%	0.10	1		05/11/20 13:19		

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ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: AST-4 **Lab ID: 92476777004** Collected: 05/06/20 15:50 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546 Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	761	mg/kg	11.7	2	05/12/20 12:07	05/13/20 15:06		
Surrogates								
n-Pentacosane (S)	71	%	33-129	2	05/12/20 12:07	05/13/20 15:06	629-99-2	
Gasoline Range Organics								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5030B Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	42.4	mg/kg	6.4	1	05/14/20 16:52	05/15/20 02:32		
Surrogates								
4-Bromofluorobenzene (S)	244	%	63-130	1	05/14/20 16:52	05/15/20 02:32	460-00-4	S5
Percent Moisture								
Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte								
Percent Moisture	15.4	%	0.10	1		05/11/20 13:19		

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ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: AST-5 **Lab ID: 92476777005** Collected: 05/06/20 16:05 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015 GCS THC-Diesel								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Diesel Range Organics(C10-C28)	4470	mg/kg	125	20	05/12/20 12:07	05/13/20 15:06		
Surrogates								
n-Pentacosane (S)	0	%	33-129	20	05/12/20 12:07	05/13/20 15:06	629-99-2	S4
MADEP EPH NC Soil								
Analytical Method: MADEP EPH Preparation Method: MADEP EPH								
Pace Analytical Services - Charlotte								
Aliphatic (C09-C18)	8560	mg/kg	2500	200	05/14/20 15:35	05/18/20 15:37		N2
Aliphatic (C19-C36)	ND	mg/kg	2500	200	05/14/20 15:35	05/18/20 15:37		N2
Aromatic (C11-C22)	2990	mg/kg	500	40	05/14/20 15:35	05/19/20 08:23		N2
Surrogates								
Nonatriacontane (S)	0	%	40-140	200	05/14/20 15:35	05/18/20 15:37	7194-86-7	S4
o-Terphenyl (S)	0	%	40-140	40	05/14/20 15:35	05/19/20 08:23	84-15-1	S4
2-Fluorobiphenyl (S)	0	%	40-140	40	05/14/20 15:35	05/19/20 08:23	321-60-8	S4
2-Bromonaphthalene (S)	0	%	40-140	40	05/14/20 15:35	05/19/20 08:23	580-13-2	S4
Gasoline Range Organics								
Analytical Method: EPA 8015C Modified Preparation Method: EPA 5030B								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	561	mg/kg	11.7	1	05/16/20 10:20	05/16/20 14:02		
Surrogates								
4-Bromofluorobenzene (S)	446	%	63-130	1	05/16/20 10:20	05/16/20 14:02	460-00-4	S2
8270E MSSV Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
Acenaphthene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	83-32-9	
Acenaphthylene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	208-96-8	
Aniline	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	62-53-3	
Anthracene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	207-08-9	
Benzoic Acid	ND	ug/kg	20600	10	05/11/20 16:37	05/13/20 21:01	65-85-0	
Benzyl alcohol	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	101-55-3	
Butylbenzylphthalate	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	59-50-7	
4-Chloroaniline	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	111-44-4	
2-Chloronaphthalene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	91-58-7	
2-Chlorophenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	7005-72-3	
Chrysene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	53-70-3	

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ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: **AST-5** Lab ID: **92476777005** Collected: 05/06/20 16:05 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave		Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Charlotte						
Dibenzofuran	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	120-83-2	
Diethylphthalate	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	105-67-9	
Dimethylphthalate	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	131-11-3	
Di-n-butylphthalate	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	20600	10	05/11/20 16:37	05/13/20 21:01	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	606-20-2	L2
Di-n-octylphthalate	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	117-81-7	
Fluoranthene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	206-44-0	
Fluorene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	87-68-3	
Hexachlorobenzene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	77-47-4	
Hexachloroethane	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	193-39-5	
Isophorone	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	78-59-1	
1-Methylnaphthalene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	90-12-0	
2-Methylnaphthalene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	15831-10-4	
Naphthalene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	91-20-3	
2-Nitroaniline	ND	ug/kg	20600	10	05/11/20 16:37	05/13/20 21:01	88-74-4	
3-Nitroaniline	ND	ug/kg	20600	10	05/11/20 16:37	05/13/20 21:01	99-09-2	
4-Nitroaniline	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	100-01-6	
Nitrobenzene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	98-95-3	
2-Nitrophenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	88-75-5	
4-Nitrophenol	ND	ug/kg	20600	10	05/11/20 16:37	05/13/20 21:01	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	86-30-6	
2,2'-Oxybis(1-chloropropane)	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	108-60-1	
Pentachlorophenol	ND	ug/kg	8220	10	05/11/20 16:37	05/13/20 21:01	87-86-5	
Phenanthrene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	85-01-8	
Phenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	108-95-2	
Pyrene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	129-00-0	
Pyridine	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	120-82-1	

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ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: AST-5 **Lab ID: 92476777005** Collected: 05/06/20 16:05 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave								
Analytical Method: EPA 8270E Preparation Method: EPA 3546								
Pace Analytical Services - Charlotte								
2,4,5-Trichlorophenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	4110	10	05/11/20 16:37	05/13/20 21:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0	%	23-110	10	05/11/20 16:37	05/13/20 21:01	4165-60-0	D3,S4
2-Fluorobiphenyl (S)	0	%	30-110	10	05/11/20 16:37	05/13/20 21:01	321-60-8	S4
Terphenyl-d14 (S)	0	%	28-110	10	05/11/20 16:37	05/13/20 21:01	1718-51-0	S4
Phenol-d6 (S)	0	%	22-110	10	05/11/20 16:37	05/13/20 21:01	13127-88-3	S4
2-Fluorophenol (S)	0	%	13-110	10	05/11/20 16:37	05/13/20 21:01	367-12-4	S4
2,4,6-Tribromophenol (S)	0	%	27-110	10	05/11/20 16:37	05/13/20 21:01	118-79-6	S4
8260D/5035A Volatile Organics								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A								
Pace Analytical Services - Charlotte								
Acetone	ND	ug/kg	16200	125	05/13/20 18:24	05/14/20 02:21	67-64-1	v2
Benzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	71-43-2	
Bromobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	108-86-1	
Bromochloromethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	74-97-5	
Bromodichloromethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	75-27-4	
Bromoform	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	75-25-2	
Bromomethane	ND	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	74-83-9	IH,L1
2-Butanone (MEK)	ND	ug/kg	16200	125	05/13/20 18:24	05/14/20 02:21	78-93-3	
n-Butylbenzene	6770	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	104-51-8	
sec-Butylbenzene	3670	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	56-23-5	
Chlorobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	108-90-7	
Chloroethane	ND	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	75-00-3	
Chloroform	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	67-66-3	
Chloromethane	ND	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	96-12-8	
Dibromochloromethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	106-93-4	
Dibromomethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	142-28-9	

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ANALYTICAL RESULTS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Sample: **AST-5** Lab ID: **92476777005** Collected: 05/06/20 16:05 Received: 05/07/20 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A Volatile Organics								
Analytical Method: EPA 8260D Preparation Method: EPA 5035A								
Pace Analytical Services - Charlotte								
2,2-Dichloropropane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	10061-02-6	
Diisopropyl ether	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	108-20-3	
Ethylbenzene	3770	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	87-68-3	
2-Hexanone	ND	ug/kg	8080	125	05/13/20 18:24	05/14/20 02:21	591-78-6	
Isopropylbenzene (Cumene)	1970	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	98-82-8	
p-Isopropyltoluene	6080	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	99-87-6	M1
Methylene Chloride	ND	ug/kg	3230	125	05/13/20 18:24	05/14/20 02:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	9400	ug/kg	8080	125	05/13/20 18:24	05/14/20 02:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	1634-04-4	
Naphthalene	1930	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	91-20-3	
n-Propylbenzene	5330	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	103-65-1	
Styrene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	79-34-5	R1
Tetrachloroethene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	127-18-4	
Toluene	2270	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	79-00-5	
Trichloroethene	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	96-18-4	
1,2,4-Trimethylbenzene	24800	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	95-63-6	
1,3,5-Trimethylbenzene	9140	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	108-67-8	
Vinyl acetate	ND	ug/kg	8080	125	05/13/20 18:24	05/14/20 02:21	108-05-4	v2
Vinyl chloride	ND	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	75-01-4	
Xylene (Total)	20900	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	1330-20-7	
m&p-Xylene	12100	ug/kg	1620	125	05/13/20 18:24	05/14/20 02:21	179601-23-1	
o-Xylene	8720	ug/kg	808	125	05/13/20 18:24	05/14/20 02:21	95-47-6	
Surrogates								
Toluene-d8 (S)	105	%	70-130	125	05/13/20 18:24	05/14/20 02:21	2037-26-5	
4-Bromofluorobenzene (S)	113	%	70-130	125	05/13/20 18:24	05/14/20 02:21	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-132	125	05/13/20 18:24	05/14/20 02:21	17060-07-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Pace Analytical Services - Charlotte

Percent Moisture	20.3	%	0.10	1		05/11/20 16:55		
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620
Pace Project No.: 92476777

QC Batch: 541392	Analysis Method: EPA 8015C Modified
QC Batch Method: EPA 5030B	Analysis Description: Gasoline Range Organics
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777001, 92476777002

METHOD BLANK: 2884937 Matrix: Solid

Associated Lab Samples: 92476777001, 92476777002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	05/13/20 15:47	
4-Bromofluorobenzene (S)	%	99	63-130	05/13/20 15:47	

LABORATORY CONTROL SAMPLE: 2884938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	49.7	56.4	114	70-130	
4-Bromofluorobenzene (S)	%			102	63-130	

MATRIX SPIKE SAMPLE: 2886884

Parameter	Units	92477182001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	55.3	81.0	139	40-155	
4-Bromofluorobenzene (S)	%				114	63-130	

SAMPLE DUPLICATE: 2884939

Parameter	Units	92476918001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	55.1	56.5	2	
4-Bromofluorobenzene (S)	%	243	244		S2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 541653	Analysis Method: EPA 8015C Modified
QC Batch Method: EPA 5030B	Analysis Description: Gasoline Range Organics
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777003, 92476777004

METHOD BLANK: 2886476 Matrix: Solid

Associated Lab Samples: 92476777003, 92476777004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	05/14/20 17:39	
4-Bromofluorobenzene (S)	%	100	63-130	05/14/20 17:39	

LABORATORY CONTROL SAMPLE: 2886477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.4	57.8	115	70-130	
4-Bromofluorobenzene (S)	%			105	63-130	

MATRIX SPIKE SAMPLE: 2886479

Parameter	Units	92477450002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	61.7	86.1	137	40-155	
4-Bromofluorobenzene (S)	%				116	63-130	

SAMPLE DUPLICATE: 2886478

Parameter	Units	92477450001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	1.6J		
4-Bromofluorobenzene (S)	%	103	102		

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 541953

Analysis Method: EPA 8015C Modified

QC Batch Method: EPA 5030B

Analysis Description: Gasoline Range Organics

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777005

METHOD BLANK: 2888011

Matrix: Solid

Associated Lab Samples: 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	ND	6.0	05/16/20 11:14	
4-Bromofluorobenzene (S)	%	104	63-130	05/16/20 11:14	

LABORATORY CONTROL SAMPLE: 2888012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	50.2	56.7	113	70-130	
4-Bromofluorobenzene (S)	%			102	63-130	

MATRIX SPIKE SAMPLE: 2888020

Parameter	Units	92477863001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	1.8J	59.1	84.1	139	40-155	
4-Bromofluorobenzene (S)	%				107	63-130	

SAMPLE DUPLICATE: 2888019

Parameter	Units	92477856001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/kg	1.6J	1.6J		
4-Bromofluorobenzene (S)	%	106	106		

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 541438

Analysis Method: EPA 8260D

QC Batch Method: EPA 5035A

Analysis Description: 8260D MSV 5035A Volatile Organics

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777005

METHOD BLANK: 2885391

Matrix: Solid

Associated Lab Samples: 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/13/20 20:19	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/13/20 20:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/13/20 20:19	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/13/20 20:19	
1,1-Dichloroethane	ug/kg	ND	5.0	05/13/20 20:19	
1,1-Dichloroethene	ug/kg	ND	5.0	05/13/20 20:19	
1,1-Dichloropropene	ug/kg	ND	5.0	05/13/20 20:19	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/13/20 20:19	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/13/20 20:19	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/13/20 20:19	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	05/13/20 20:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/13/20 20:19	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/13/20 20:19	
1,2-Dichloroethane	ug/kg	ND	5.0	05/13/20 20:19	
1,2-Dichloropropane	ug/kg	ND	5.0	05/13/20 20:19	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/13/20 20:19	
1,3-Dichloropropane	ug/kg	ND	5.0	05/13/20 20:19	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/13/20 20:19	
2,2-Dichloropropane	ug/kg	ND	5.0	05/13/20 20:19	
2-Butanone (MEK)	ug/kg	ND	100	05/13/20 20:19	
2-Chlorotoluene	ug/kg	ND	5.0	05/13/20 20:19	
2-Hexanone	ug/kg	ND	50.0	05/13/20 20:19	
4-Chlorotoluene	ug/kg	ND	5.0	05/13/20 20:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	05/13/20 20:19	
Acetone	ug/kg	ND	100	05/13/20 20:19	v2
Benzene	ug/kg	ND	5.0	05/13/20 20:19	
Bromobenzene	ug/kg	ND	5.0	05/13/20 20:19	
Bromochloromethane	ug/kg	ND	5.0	05/13/20 20:19	
Bromodichloromethane	ug/kg	ND	5.0	05/13/20 20:19	
Bromoform	ug/kg	ND	5.0	05/13/20 20:19	
Bromomethane	ug/kg	ND	10.0	05/13/20 20:19	IH
Carbon tetrachloride	ug/kg	ND	5.0	05/13/20 20:19	
Chlorobenzene	ug/kg	ND	5.0	05/13/20 20:19	
Chloroethane	ug/kg	ND	10.0	05/13/20 20:19	
Chloroform	ug/kg	ND	5.0	05/13/20 20:19	
Chloromethane	ug/kg	ND	10.0	05/13/20 20:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/13/20 20:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/13/20 20:19	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620
Pace Project No.: 92476777

METHOD BLANK: 2885391 Matrix: Solid
Associated Lab Samples: 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	05/13/20 20:19	
Dibromomethane	ug/kg	ND	5.0	05/13/20 20:19	
Dichlorodifluoromethane	ug/kg	ND	10.0	05/13/20 20:19	
Diisopropyl ether	ug/kg	ND	5.0	05/13/20 20:19	
Ethylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/13/20 20:19	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/13/20 20:19	
m&p-Xylene	ug/kg	ND	10.0	05/13/20 20:19	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/13/20 20:19	
Methylene Chloride	ug/kg	ND	20.0	05/13/20 20:19	
n-Butylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
n-Propylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
Naphthalene	ug/kg	ND	5.0	05/13/20 20:19	
o-Xylene	ug/kg	ND	5.0	05/13/20 20:19	
p-Isopropyltoluene	ug/kg	ND	5.0	05/13/20 20:19	
sec-Butylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
Styrene	ug/kg	ND	5.0	05/13/20 20:19	
tert-Butylbenzene	ug/kg	ND	5.0	05/13/20 20:19	
Tetrachloroethene	ug/kg	ND	5.0	05/13/20 20:19	
Toluene	ug/kg	ND	5.0	05/13/20 20:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/13/20 20:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/13/20 20:19	
Trichloroethene	ug/kg	ND	5.0	05/13/20 20:19	
Trichlorofluoromethane	ug/kg	ND	5.0	05/13/20 20:19	
Vinyl acetate	ug/kg	ND	50.0	05/13/20 20:19	v2
Vinyl chloride	ug/kg	ND	10.0	05/13/20 20:19	
Xylene (Total)	ug/kg	ND	10.0	05/13/20 20:19	
1,2-Dichloroethane-d4 (S)	%	89	70-132	05/13/20 20:19	
4-Bromofluorobenzene (S)	%	99	70-130	05/13/20 20:19	
Toluene-d8 (S)	%	101	70-130	05/13/20 20:19	

LABORATORY CONTROL SAMPLE: 2885392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	57.4	115	70-130	
1,1,1-Trichloroethane	ug/kg	50	51.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	54.1	108	55-130	
1,1,2-Trichloroethane	ug/kg	50	54.8	110	70-130	
1,1-Dichloroethane	ug/kg	50	51.8	104	68-130	
1,1-Dichloroethene	ug/kg	50	53.5	107	70-130	
1,1-Dichloropropene	ug/kg	50	55.1	110	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	59.1	118	70-130	
1,2,3-Trichloropropane	ug/kg	50	53.1	106	70-130	
1,2,4-Trichlorobenzene	ug/kg	50	59.2	118	70-130	

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

LABORATORY CONTROL SAMPLE: 2885392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	50	55.3	111	69-130	
1,2-Dibromo-3-chloropropane	ug/kg	50	56.0	112	57-141	
1,2-Dibromoethane (EDB)	ug/kg	50	59.5	119	70-130	
1,2-Dichlorobenzene	ug/kg	50	57.8	116	70-130	
1,2-Dichloroethane	ug/kg	50	49.7	99	70-130	
1,2-Dichloropropane	ug/kg	50	54.8	110	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	56.8	114	70-130	
1,3-Dichlorobenzene	ug/kg	50	57.4	115	70-130	
1,3-Dichloropropane	ug/kg	50	56.1	112	70-130	
1,4-Dichlorobenzene	ug/kg	50	56.9	114	70-130	
2,2-Dichloropropane	ug/kg	50	52.5	105	70-130	
2-Butanone (MEK)	ug/kg	100	104	104	60-130	
2-Chlorotoluene	ug/kg	50	54.7	109	70-130	
2-Hexanone	ug/kg	100	103	103	70-132	
4-Chlorotoluene	ug/kg	50	55.9	112	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	99.6	100	69-130	
Acetone	ug/kg	100	118	118	49-148 v3	
Benzene	ug/kg	50	54.7	109	70-130	
Bromobenzene	ug/kg	50	56.7	113	70-130	
Bromochloromethane	ug/kg	50	55.3	111	70-130	
Bromodichloromethane	ug/kg	50	55.1	110	70-130	
Bromoform	ug/kg	50	57.8	116	68-136	
Bromomethane	ug/kg	50	72.7	145	60-140 IH,L1	
Carbon tetrachloride	ug/kg	50	53.0	106	70-130	
Chlorobenzene	ug/kg	50	56.3	113	70-130	
Chloroethane	ug/kg	50	60.2	120	51-147	
Chloroform	ug/kg	50	51.9	104	70-130	
Chloromethane	ug/kg	50	47.0	94	48-130	
cis-1,2-Dichloroethene	ug/kg	50	51.9	104	70-130	
cis-1,3-Dichloropropene	ug/kg	50	55.8	112	70-130	
Dibromochloromethane	ug/kg	50	58.4	117	70-130	
Dibromomethane	ug/kg	50	55.7	111	70-130	
Dichlorodifluoromethane	ug/kg	50	53.8	108	49-130	
Diisopropyl ether	ug/kg	50	52.3	105	66-130	
Ethylbenzene	ug/kg	50	54.0	108	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	61.3	123	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	56.3	113	70-130	
m&p-Xylene	ug/kg	100	110	110	70-130	
Methyl-tert-butyl ether	ug/kg	50	54.6	109	70-130	
Methylene Chloride	ug/kg	50	49.1	98	50-137	
n-Butylbenzene	ug/kg	50	56.2	112	70-130	
n-Propylbenzene	ug/kg	50	53.4	107	70-130	
Naphthalene	ug/kg	50	57.4	115	70-131	
o-Xylene	ug/kg	50	56.6	113	70-130	
p-Isopropyltoluene	ug/kg	50	56.0	112	70-130	
sec-Butylbenzene	ug/kg	50	55.0	110	70-130	
Styrene	ug/kg	50	58.4	117	70-130	

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

LABORATORY CONTROL SAMPLE: 2885392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	48.7	97	69-130	
Tetrachloroethene	ug/kg	50	54.4	109	56-130	
Toluene	ug/kg	50	52.6	105	70-130	
trans-1,2-Dichloroethene	ug/kg	50	54.1	108	70-130	
trans-1,3-Dichloropropene	ug/kg	50	54.7	109	70-130	
Trichloroethene	ug/kg	50	56.7	113	70-141	
Trichlorofluoromethane	ug/kg	50	56.4	113	67-130	
Vinyl acetate	ug/kg	100	106	106	10-136 v3	
Vinyl chloride	ug/kg	50	59.8	120	67-130	
Xylene (Total)	ug/kg	150	166	111	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2885393 2885394

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92476777005	Result	Spike Conc.	Spike Conc.							
1,1,1,2-Tetrachloroethane	ug/kg	ND	3240	3240	3220	3270	100	101	52-133	2		
1,1,1-Trichloroethane	ug/kg	ND	3240	3240	2820	2680	87	83	49-137	5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	3240	3240	2950	1560	91	48	39-150	62	R1	
1,1,2-Trichloroethane	ug/kg	ND	3240	3240	3690	3280	114	102	48-140	12		
1,1-Dichloroethane	ug/kg	ND	3240	3240	2970	2860	92	89	46-135	4		
1,1-Dichloroethene	ug/kg	ND	3240	3240	2930	2810	91	87	38-149	4		
1,1-Dichloropropene	ug/kg	ND	3240	3240	2960	2870	92	89	41-140	3		
1,2,3-Trichlorobenzene	ug/kg	ND	3240	3240	1790	1770	55	55	10-158	1		
1,2,3-Trichloropropane	ug/kg	ND	3240	3240	3700	3540	114	109	33-157	4		
1,2,4-Trichlorobenzene	ug/kg	ND	3240	3240	1790	1780	55	55	10-155	1		
1,2,4-Trimethylbenzene	ug/kg	24800	3240	3240	26900	27100	66	73	24-154	1		
1,2-Dibromo-3-chloropropane	ug/kg	ND	3240	3240	2910	2990	90	92	33-158	3		
1,2-Dibromoethane (EDB)	ug/kg	ND	3240	3240	3390	3430	105	106	40-136	1		
1,2-Dichlorobenzene	ug/kg	ND	3240	3240	3120	3100	97	96	27-146	1		
1,2-Dichloroethane	ug/kg	ND	3240	3240	2970	2920	92	90	49-140	2		
1,2-Dichloropropane	ug/kg	ND	3240	3240	3210	3140	99	97	44-143	2		
1,3,5-Trimethylbenzene	ug/kg	9140	3240	3240	12100	12300	91	97	40-144	1		
1,3-Dichlorobenzene	ug/kg	ND	3240	3240	2930	2950	91	91	33-140	1		
1,3-Dichloropropane	ug/kg	ND	3240	3240	3160	3290	98	102	47-147	4		
1,4-Dichlorobenzene	ug/kg	ND	3240	3240	2870	2940	89	91	35-139	2		
2,2-Dichloropropane	ug/kg	ND	3240	3240	2650	2530	82	78	41-140	5		
2-Butanone (MEK)	ug/kg	ND	6460	6460	6230J	5920J	96	92	10-181			
2-Chlorotoluene	ug/kg	ND	3240	3240	3330	3370	103	104	38-147	1		
2-Hexanone	ug/kg	ND	6460	6460	5530J	5490J	86	85	18-169			
4-Chlorotoluene	ug/kg	ND	3240	3240	2840	2790	88	86	36-145	2		
4-Methyl-2-pentanone (MIBK)	ug/kg	9400	6460	6460	16900	17100	115	118	16-175	1		
Acetone	ug/kg	ND	6460	6460	5050J	5050J	78	78	10-200			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2885393 2885394											
	Units	MS		MSD		MS	MSD	MS	MSD	% Rec	RPD	Qual
		92476777005	Spike	Spike	MS							
Benzene	ug/kg	ND	3240	3240	3100	3030	96	94	46-136	3		
Bromobenzene	ug/kg	ND	3240	3240	3000	3130	93	97	38-149	4		
Bromochloromethane	ug/kg	ND	3240	3240	3120	3100	97	96	44-142	1		
Bromodichloromethane	ug/kg	ND	3240	3240	3120	3060	96	95	41-140	2		
Bromoform	ug/kg	ND	3240	3240	3230	3190	100	99	34-145	1		
Bromomethane	ug/kg	ND	3240	3240	4360	4110	135	127	14-162	6 IH		
Carbon tetrachloride	ug/kg	ND	3240	3240	2790	2730	86	85	44-141	2		
Chlorobenzene	ug/kg	ND	3240	3240	3320	3270	103	101	39-141	1		
Chloroethane	ug/kg	ND	3240	3240	2310	2530	72	78	10-182	9		
Chloroform	ug/kg	ND	3240	3240	2990	2920	93	90	45-140	2		
Chloromethane	ug/kg	ND	3240	3240	1590J	2860	49	88	19-149			
cis-1,2-Dichloroethene	ug/kg	ND	3240	3240	2930	2840	90	88	38-150	3		
cis-1,3-Dichloropropene	ug/kg	ND	3240	3240	3040	2980	94	92	30-144	2		
Dibromochloromethane	ug/kg	ND	3240	3240	3240	3230	100	100	36-145	0		
Dibromomethane	ug/kg	ND	3240	3240	3280	3250	101	101	41-145	1		
Dichlorodifluoromethane	ug/kg	ND	3240	3240	2920	2790	90	86	16-146	5		
Diisopropyl ether	ug/kg	ND	3240	3240	3010	3040	93	94	41-143	1		
Ethylbenzene	ug/kg	3770	3240	3240	6720	6780	91	93	35-144	1		
Hexachloro-1,3-butadiene	ug/kg	ND	3240	3240	1900	1860	59	58	10-160	2		
Isopropylbenzene (Cumene)	ug/kg	1970	3240	3240	5090	5140	97	98	30-152	1		
m&p-Xylene	ug/kg	12100	6460	6460	17900	17900	89	90	33-145	0		
Methyl-tert-butyl ether	ug/kg	ND	3240	3240	3210	3070	99	95	49-140	5		
Methylene Chloride	ug/kg	ND	3240	3240	3080J	3080J	88	87	10-174			
n-Butylbenzene	ug/kg	6770	3240	3240	8770	9530	62	85	10-160	8		
n-Propylbenzene	ug/kg	5330	3240	3240	7800	7960	76	81	24-159	2		
Naphthalene	ug/kg	1930	3240	3240	4300	3970	73	63	10-171	8		
o-Xylene	ug/kg	8720	3240	3240	11900	12100	99	105	31-150	2		
p-Isopropyltoluene	ug/kg	6080	3240	3240	6040	6180	-1	3	21-154	2 M1		
sec-Butylbenzene	ug/kg	3670	3240	3240	6560	6560	90	89	19-159	0		
Styrene	ug/kg	ND	3240	3240	3230	3210	100	99	15-152	1		
tert-Butylbenzene	ug/kg	ND	3240	3240	2590	2570	80	80	31-141	1		
Tetrachloroethene	ug/kg	ND	3240	3240	2740	2850	85	88	19-141	4		
Toluene	ug/kg	2270	3240	3240	5210	5170	91	90	31-146	1		
trans-1,2-Dichloroethene	ug/kg	ND	3240	3240	3020	2890	93	89	28-157	5		
trans-1,3-Dichloropropene	ug/kg	ND	3240	3240	3030	3080	94	95	25-146	1		
Trichloroethene	ug/kg	ND	3240	3240	3050	2960	94	91	34-149	3		
Trichlorofluoromethane	ug/kg	ND	3240	3240	2490	2380	77	73	10-167	5		
Vinyl acetate	ug/kg	ND	6460	6460	5030J	4790J	78	74	10-200			
Vinyl chloride	ug/kg	ND	3240	3240	3340	3250	103	101	36-155	3		
Xylene (Total)	ug/kg	20900	9690	9690	29800	30000	92	95	29-148	1		
1,2-Dichloroethane-d4 (S)	%						91	93	70-132			
4-Bromofluorobenzene (S)	%						115	116	70-130			
Toluene-d8 (S)	%						102	102	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 540996 Analysis Method: EPA 8015C Modified
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92476777001, 92476777002, 92476777003, 92476777004, 92476777005

METHOD BLANK: 2883180 Matrix: Solid
 Associated Lab Samples: 92476777001, 92476777002, 92476777003, 92476777004, 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	5.0	05/13/20 08:19	
n-Pentacosane (S)	%	62	33-129	05/13/20 08:19	

LABORATORY CONTROL SAMPLE: 2883181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	66.4	45.4	68	43-130	
n-Pentacosane (S)	%			72	33-129	

MATRIX SPIKE SAMPLE: 2883182

Parameter	Units	92476929004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	ND	78.9	43.8	55	10-130	
n-Pentacosane (S)	%				50	33-129	

SAMPLE DUPLICATE: 2883183

Parameter	Units	92476929005 Result	Dup Result	RPD	Qualifiers
Diesel Range Organics(C10-C28)	mg/kg	18.0	13.1	31	D6
n-Pentacosane (S)	%	61	57		

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620
Pace Project No.: 92476777

QC Batch: 540876	Analysis Method: EPA 8270E
QC Batch Method: EPA 3546	Analysis Description: 8270E Solid MSSV Microwave
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777005

METHOD BLANK: 2882811 Matrix: Solid

Associated Lab Samples: 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	326	05/12/20 11:11	
1,2-Dichlorobenzene	ug/kg	ND	326	05/12/20 11:11	
1,3-Dichlorobenzene	ug/kg	ND	326	05/12/20 11:11	
1,4-Dichlorobenzene	ug/kg	ND	326	05/12/20 11:11	
1-Methylnaphthalene	ug/kg	ND	326	05/12/20 11:11	
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	326	05/12/20 11:11	
2,4,5-Trichlorophenol	ug/kg	ND	326	05/12/20 11:11	
2,4,6-Trichlorophenol	ug/kg	ND	326	05/12/20 11:11	
2,4-Dichlorophenol	ug/kg	ND	326	05/12/20 11:11	
2,4-Dimethylphenol	ug/kg	ND	326	05/12/20 11:11	
2,4-Dinitrophenol	ug/kg	ND	1630	05/12/20 11:11	
2,4-Dinitrotoluene	ug/kg	ND	326	05/12/20 11:11	
2,6-Dinitrotoluene	ug/kg	ND	326	05/12/20 11:11	v2
2-Chloronaphthalene	ug/kg	ND	326	05/12/20 11:11	
2-Chlorophenol	ug/kg	ND	326	05/12/20 11:11	
2-Methylnaphthalene	ug/kg	ND	326	05/12/20 11:11	
2-Methylphenol(o-Cresol)	ug/kg	ND	326	05/12/20 11:11	
2-Nitroaniline	ug/kg	ND	1630	05/12/20 11:11	
2-Nitrophenol	ug/kg	ND	326	05/12/20 11:11	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	326	05/12/20 11:11	
3,3'-Dichlorobenzidine	ug/kg	ND	651	05/12/20 11:11	
3-Nitroaniline	ug/kg	ND	1630	05/12/20 11:11	
4,6-Dinitro-2-methylphenol	ug/kg	ND	651	05/12/20 11:11	
4-Bromophenylphenyl ether	ug/kg	ND	326	05/12/20 11:11	
4-Chloro-3-methylphenol	ug/kg	ND	651	05/12/20 11:11	
4-Chloroaniline	ug/kg	ND	651	05/12/20 11:11	
4-Chlorophenylphenyl ether	ug/kg	ND	326	05/12/20 11:11	
4-Nitroaniline	ug/kg	ND	651	05/12/20 11:11	
4-Nitrophenol	ug/kg	ND	1630	05/12/20 11:11	
Acenaphthene	ug/kg	ND	326	05/12/20 11:11	
Acenaphthylene	ug/kg	ND	326	05/12/20 11:11	
Aniline	ug/kg	ND	326	05/12/20 11:11	
Anthracene	ug/kg	ND	326	05/12/20 11:11	
Benzo(a)anthracene	ug/kg	ND	326	05/12/20 11:11	
Benzo(a)pyrene	ug/kg	ND	326	05/12/20 11:11	
Benzo(b)fluoranthene	ug/kg	ND	326	05/12/20 11:11	
Benzo(g,h,i)perylene	ug/kg	ND	326	05/12/20 11:11	
Benzo(k)fluoranthene	ug/kg	ND	326	05/12/20 11:11	
Benzoic Acid	ug/kg	ND	1630	05/12/20 11:11	
Benzyl alcohol	ug/kg	ND	651	05/12/20 11:11	

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620
Pace Project No.: 92476777

METHOD BLANK: 2882811 Matrix: Solid
Associated Lab Samples: 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroethoxy)methane	ug/kg	ND	326	05/12/20 11:11	
bis(2-Chloroethyl) ether	ug/kg	ND	326	05/12/20 11:11	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	326	05/12/20 11:11	
Butylbenzylphthalate	ug/kg	ND	326	05/12/20 11:11	
Chrysene	ug/kg	ND	326	05/12/20 11:11	
Di-n-butylphthalate	ug/kg	ND	326	05/12/20 11:11	
Di-n-octylphthalate	ug/kg	ND	326	05/12/20 11:11	
Dibenz(a,h)anthracene	ug/kg	ND	326	05/12/20 11:11	
Dibenzofuran	ug/kg	ND	326	05/12/20 11:11	
Diethylphthalate	ug/kg	ND	326	05/12/20 11:11	
Dimethylphthalate	ug/kg	ND	326	05/12/20 11:11	
Fluoranthene	ug/kg	ND	326	05/12/20 11:11	
Fluorene	ug/kg	ND	326	05/12/20 11:11	
Hexachloro-1,3-butadiene	ug/kg	ND	326	05/12/20 11:11	
Hexachlorobenzene	ug/kg	ND	326	05/12/20 11:11	
Hexachlorocyclopentadiene	ug/kg	ND	326	05/12/20 11:11	v2
Hexachloroethane	ug/kg	ND	326	05/12/20 11:11	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	326	05/12/20 11:11	
Isophorone	ug/kg	ND	326	05/12/20 11:11	
N-Nitroso-di-n-propylamine	ug/kg	ND	326	05/12/20 11:11	
N-Nitrosodimethylamine	ug/kg	ND	326	05/12/20 11:11	
N-Nitrosodiphenylamine	ug/kg	ND	326	05/12/20 11:11	
Naphthalene	ug/kg	ND	326	05/12/20 11:11	
Nitrobenzene	ug/kg	ND	326	05/12/20 11:11	
Pentachlorophenol	ug/kg	ND	651	05/12/20 11:11	
Phenanthrene	ug/kg	ND	326	05/12/20 11:11	
Phenol	ug/kg	ND	326	05/12/20 11:11	
Pyrene	ug/kg	ND	326	05/12/20 11:11	
Pyridine	ug/kg	ND	326	05/12/20 11:11	
2,4,6-Tribromophenol (S)	%	73	27-110	05/12/20 11:11	
2-Fluorobiphenyl (S)	%	70	30-110	05/12/20 11:11	
2-Fluorophenol (S)	%	68	13-110	05/12/20 11:11	
Nitrobenzene-d5 (S)	%	68	23-110	05/12/20 11:11	
Phenol-d6 (S)	%	70	22-110	05/12/20 11:11	
Terphenyl-d14 (S)	%	88	28-110	05/12/20 11:11	

LABORATORY CONTROL SAMPLE: 2882812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1680	1230	73	52-130	
1,2-Dichlorobenzene	ug/kg	1680	1270	75	51-130	
1,3-Dichlorobenzene	ug/kg	1680	1210	72	50-130	
1,4-Dichlorobenzene	ug/kg	1680	1280	76	49-130	
1-Methylnaphthalene	ug/kg	1680	1170	69	55-130	

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

LABORATORY CONTROL SAMPLE: 2882812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2'-Oxybis(1-chloropropane)	ug/kg	1680	1220	73	30-130	
2,4,5-Trichlorophenol	ug/kg	1680	1420	84	55-130	
2,4,6-Trichlorophenol	ug/kg	1680	1350	80	57-130	
2,4-Dichlorophenol	ug/kg	1680	1270	76	56-130	
2,4-Dimethylphenol	ug/kg	1680	1250	74	51-130	
2,4-Dinitrophenol	ug/kg	8420	6120	73	27-133	
2,4-Dinitrotoluene	ug/kg	1680	1390	83	61-130	
2,6-Dinitrotoluene	ug/kg	1680	1000	59	60-130	L2,v3
2-Chloronaphthalene	ug/kg	1680	1310	78	52-130	
2-Chlorophenol	ug/kg	1680	1300	77	54-130	
2-Methylnaphthalene	ug/kg	1680	1190	71	54-130	
2-Methylphenol(o-Cresol)	ug/kg	1680	1230	73	51-130	
2-Nitroaniline	ug/kg	3370	2530	75	51-130	
2-Nitrophenol	ug/kg	1680	1300	78	49-130	
3&4-Methylphenol(m&p Cresol)	ug/kg	1680	1260	75	11-163	
3,3'-Dichlorobenzidine	ug/kg	3370	2740	81	10-132	
3-Nitroaniline	ug/kg	3370	2590	77	55-130	
4,6-Dinitro-2-methylphenol	ug/kg	3370	2740	81	47-142	
4-Bromophenylphenyl ether	ug/kg	1680	1260	75	59-130	
4-Chloro-3-methylphenol	ug/kg	3370	2540	76	55-130	
4-Chloroaniline	ug/kg	3370	2600	77	54-130	
4-Chlorophenylphenyl ether	ug/kg	1680	1260	75	58-130	
4-Nitroaniline	ug/kg	3370	2840	84	54-130	
4-Nitrophenol	ug/kg	8420	6710	80	48-130	
Acenaphthene	ug/kg	1680	1320	79	60-130	
Acenaphthylene	ug/kg	1680	1360	81	60-130	
Aniline	ug/kg	1680	1210	72	43-130	
Anthracene	ug/kg	1680	1350	80	63-130	
Benzo(a)anthracene	ug/kg	1680	1340	79	59-130	
Benzo(a)pyrene	ug/kg	1680	1410	83	57-130	
Benzo(b)fluoranthene	ug/kg	1680	1550	92	54-130	
Benzo(g,h,i)perylene	ug/kg	1680	1180	70	59-130	
Benzo(k)fluoranthene	ug/kg	1680	1410	84	54-130	
Benzoic Acid	ug/kg	8420	4190	50	19-130	
Benzyl alcohol	ug/kg	3370	2400	71	50-130	
bis(2-Chloroethoxy)methane	ug/kg	1680	1150	68	54-130	
bis(2-Chloroethyl) ether	ug/kg	1680	1190	71	48-130	
bis(2-Ethylhexyl)phthalate	ug/kg	1680	1240	74	45-134	
Butylbenzylphthalate	ug/kg	1680	1370	81	46-138	
Chrysene	ug/kg	1680	1260	75	58-130	
Di-n-butylphthalate	ug/kg	1680	1290	77	60-130	
Di-n-octylphthalate	ug/kg	1680	1390	83	53-130	
Dibenz(a,h)anthracene	ug/kg	1680	1180	70	59-130	
Dibenzofuran	ug/kg	1680	1330	79	60-130	
Diethylphthalate	ug/kg	1680	1240	73	60-130	
Dimethylphthalate	ug/kg	1680	1250	74	60-130	
Fluoranthene	ug/kg	1680	1420	84	65-130	

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

LABORATORY CONTROL SAMPLE: 2882812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	1680	1310	78	63-130	
Hexachloro-1,3-butadiene	ug/kg	1680	1180	70	46-130	
Hexachlorobenzene	ug/kg	1680	1300	77	58-130	
Hexachlorocyclopentadiene	ug/kg	1680	1000	59	23-130 v3	
Hexachloroethane	ug/kg	1680	1220	72	47-130	
Indeno(1,2,3-cd)pyrene	ug/kg	1680	1250	74	60-130	
Isophorone	ug/kg	1680	1150	68	49-130	
N-Nitroso-di-n-propylamine	ug/kg	1680	1180	70	47-130	
N-Nitrosodimethylamine	ug/kg	1680	1200	71	45-130	
N-Nitrosodiphenylamine	ug/kg	1680	1310	78	59-130	
Naphthalene	ug/kg	1680	1250	74	55-130	
Nitrobenzene	ug/kg	1680	1200	71	49-130	
Pentachlorophenol	ug/kg	3370	2870	85	10-132	
Phenanthrene	ug/kg	1680	1330	79	62-130	
Phenol	ug/kg	1680	1370	82	46-130	
Pyrene	ug/kg	1680	1390	83	53-130	
Pyridine	ug/kg	1680	1030	61	37-130	
2,4,6-Tribromophenol (S)	%			81	27-110	
2-Fluorobiphenyl (S)	%			74	30-110	
2-Fluorophenol (S)	%			76	13-110	
Nitrobenzene-d5 (S)	%			69	23-110	
Phenol-d6 (S)	%			76	22-110	
Terphenyl-d14 (S)	%			87	28-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2882813 2882814

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92476354001 Result	Spike Conc.	Spike Conc.	Result					
1,2,4-Trichlorobenzene	ug/kg	ND	1680	1670	964	1020	57	61	18-130	6
1,2-Dichlorobenzene	ug/kg	ND	1680	1670	955	1060	57	64	14-130	11
1,3-Dichlorobenzene	ug/kg	ND	1680	1670	938	1050	56	63	12-130	11
1,4-Dichlorobenzene	ug/kg	ND	1680	1670	1020	1130	61	68	10-130	9
1-Methylnaphthalene	ug/kg	ND	1680	1670	1010	977	60	59	12-130	3
2,2'-Oxybis(1-chloropropane)	ug/kg	ND	1680	1670	988	1090	59	66	10-130	10
2,4,5-Trichlorophenol	ug/kg	ND	1680	1670	1110	1260	66	76	13-130	13
2,4,6-Trichlorophenol	ug/kg	ND	1680	1670	1120	1240	66	74	17-130	10
2,4-Dichlorophenol	ug/kg	ND	1680	1670	1060	1130	63	68	10-130	7
2,4-Dimethylphenol	ug/kg	ND	1680	1670	1070	1110	64	66	10-130	3
2,4-Dinitrophenol	ug/kg	ND	8420	8330	ND	ND	4	5	10-130	M1
2,4-Dinitrotoluene	ug/kg	ND	1680	1670	999	1080	59	65	24-130	8
2,6-Dinitrotoluene	ug/kg	ND	1680	1670	742	810	44	49	23-130	9 v3
2-Chloronaphthalene	ug/kg	ND	1680	1670	1020	1120	61	67	19-130	9
2-Chlorophenol	ug/kg	ND	1680	1670	1010	1140	60	68	10-130	12
2-Methylnaphthalene	ug/kg	ND	1680	1670	1040	1010	62	60	18-130	4
2-Methylphenol(o-Cresol)	ug/kg	ND	1680	1670	1010	1130	60	68	10-130	12

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Parameter	92476354001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
2-Nitroaniline	ug/kg	ND	3370	3330	2080	2180	62	65	17-130	4				
2-Nitrophenol	ug/kg	ND	1680	1670	885	915	53	55	10-130	3				
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	1680	1670	1030	1130	61	68	10-130	9				
3,3'-Dichlorobenzidine	ug/kg	ND	3370	3330	956	1810	28	54	10-130	62	R1			
3-Nitroaniline	ug/kg	ND	3370	3330	1930	2160	57	65	24-130	11				
4,6-Dinitro-2-methylphenol	ug/kg	ND	3370	3330	ND	669	14	20	10-152					
4-Bromophenylphenyl ether	ug/kg	ND	1680	1670	993	1030	59	62	29-130	4				
4-Chloro-3-methylphenol	ug/kg	ND	3370	3330	1990	2140	59	64	17-130	8				
4-Chloroaniline	ug/kg	ND	3370	3330	1970	2150	59	65	14-130	9				
4-Chlorophenylphenyl ether	ug/kg	ND	1680	1670	930	1010	55	61	25-130	8				
4-Nitroaniline	ug/kg	ND	3370	3330	2070	2250	61	67	22-130	8				
4-Nitrophenol	ug/kg	ND	8420	8330	4840	5200	58	62	10-130	7				
Acenaphthene	ug/kg	ND	1680	1670	1030	1100	61	66	20-130	6				
Acenaphthylene	ug/kg	ND	1680	1670	1030	1100	61	66	25-130	7				
Aniline	ug/kg	ND	1680	1670	908	1040	54	62	10-130	13				
Anthracene	ug/kg	ND	1680	1670	1010	1080	60	65	29-130	6				
Benzo(a)anthracene	ug/kg	ND	1680	1670	981	1040	58	63	19-130	6				
Benzo(a)pyrene	ug/kg	ND	1680	1670	978	1060	58	64	12-130	8				
Benzo(b)fluoranthene	ug/kg	ND	1680	1670	1090	1190	65	71	14-130	9				
Benzo(g,h,i)perylene	ug/kg	ND	1680	1670	854	924	51	55	10-130	8				
Benzo(k)fluoranthene	ug/kg	ND	1680	1670	992	1090	59	65	14-130	9				
Benzoic Acid	ug/kg	ND	8420	8330	480J	ND	6	3	10-130		M1			
Benzyl alcohol	ug/kg	ND	3370	3330	1900	2150	56	64	13-130	12				
bis(2-Chloroethoxy)methane	ug/kg	ND	1680	1670	942	1000	56	60	16-130	6				
bis(2-Chloroethyl) ether	ug/kg	ND	1680	1670	960	1070	57	64	11-130	11				
bis(2-Ethylhexyl)phthalate	ug/kg	ND	1680	1670	1280	1630	76	98	21-130	24				
Butylbenzylphthalate	ug/kg	ND	1680	1670	991	1080	59	65	23-130	8				
Chrysene	ug/kg	ND	1680	1670	1000	1030	60	62	22-130	2				
Di-n-butylphthalate	ug/kg	ND	1680	1670	1040	1020	62	61	30-130	2				
Di-n-octylphthalate	ug/kg	ND	1680	1670	1110	1120	66	67	23-142	1				
Dibenz(a,h)anthracene	ug/kg	ND	1680	1670	884	971	53	58	10-130	9				
Dibenzofuran	ug/kg	ND	1680	1670	1000	1070	59	64	24-130	7				
Diethylphthalate	ug/kg	ND	1680	1670	973	1030	58	62	26-130	5				
Dimethylphthalate	ug/kg	ND	1680	1670	1010	1100	60	66	22-130	9				
Fluoranthene	ug/kg	ND	1680	1670	966	1030	57	62	33-130	7				
Fluorene	ug/kg	ND	1680	1670	1020	1060	60	64	22-130	4				
Hexachloro-1,3-butadiene	ug/kg	ND	1680	1670	882	929	52	56	13-130	5				
Hexachlorobenzene	ug/kg	ND	1680	1670	981	1080	58	65	29-130	9				
Hexachlorocyclopentadiene	ug/kg	ND	1680	1670	607	685	36	41	10-130	12	v3			
Hexachloroethane	ug/kg	ND	1680	1670	971	1060	58	64	10-130	9				
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1680	1670	860	969	51	58	10-130	12				
Isophorone	ug/kg	ND	1680	1670	953	999	57	60	13-130	5				
N-Nitroso-di-n-propylamine	ug/kg	ND	1680	1670	972	1050	58	63	12-130	8				
N-Nitrosodimethylamine	ug/kg	ND	1680	1670	866	911	51	55	11-130	5				
N-Nitrosodiphenylamine	ug/kg	ND	1680	1670	1110	1190	66	72	15-130	8				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Parameter	Units	2882813		2882814		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92476354001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Naphthalene	ug/kg	ND	1680	1670	1050	1090	62	65	15-130	3		
Nitrobenzene	ug/kg	ND	1680	1670	942	1000	56	60	12-130	6		
Pentachlorophenol	ug/kg	ND	3370	3330	2010	2300	60	69	10-130	14		
Phenanthrene	ug/kg	ND	1680	1670	1070	1090	64	66	27-130	2		
Phenol	ug/kg	ND	1680	1670	1080	1170	64	70	10-130	8		
Pyrene	ug/kg	ND	1680	1670	960	1010	57	61	19-130	5		
Pyridine	ug/kg	ND	1680	1670	848	822	50	49	10-130	3		
2,4,6-Tribromophenol (S)	%						56	68	27-110			
2-Fluorobiphenyl (S)	%						39	47	30-110			
2-Fluorophenol (S)	%						52	61	13-110			
Nitrobenzene-d5 (S)	%						46	50	23-110			
Phenol-d6 (S)	%						52	62	22-110			
Terphenyl-d14 (S)	%						45	51	28-110			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 541610

Analysis Method: MADEP EPH

QC Batch Method: MADEP EPH

Analysis Description: MADEP EPH NC Soil

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777005

METHOD BLANK: 2886087

Matrix: Solid

Associated Lab Samples: 92476777005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C18)	mg/kg	ND	10.1	05/15/20 10:52	N2
Aliphatic (C19-C36)	mg/kg	ND	10.1	05/15/20 10:52	N2
Aromatic (C11-C22)	mg/kg	ND	10.1	05/15/20 10:52	N2
2-Bromonaphthalene (S)	%	93	40-140	05/15/20 10:52	
2-Fluorobiphenyl (S)	%	93	40-140	05/15/20 10:52	
Nonatriacontane (S)	%	67	40-140	05/15/20 10:52	
o-Terphenyl (S)	%	75	40-140	05/15/20 10:52	

LABORATORY CONTROL SAMPLE & LCSD: 2886088

2886089

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C18)	mg/kg	10.1	ND	ND	46	42	40-140		50	N2
Aliphatic (C19-C36)	mg/kg	13.5	ND	ND	53	59	40-140		50	N2
Aromatic (C11-C22)	mg/kg	28.6	20.2	18.5	71	64	40-140	9	50	N2
2-Bromonaphthalene (S)	%				103	102	40-140			
2-Fluorobiphenyl (S)	%				96	96	40-140			
Nonatriacontane (S)	%				60	55	40-140			
o-Terphenyl (S)	%				87	77	40-140			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 540821

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777001, 92476777002, 92476777003, 92476777004

SAMPLE DUPLICATE: 2882558

Parameter	Units	92476857001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.8	19.4	2	

SAMPLE DUPLICATE: 2882559

Parameter	Units	92476777004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.4	16.4	7	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

QC Batch: 540839

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92476777005

SAMPLE DUPLICATE: 2882605

Parameter	Units	92475703001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	23.6	25.3	7	

SAMPLE DUPLICATE: 2882929

Parameter	Units	92477107001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	3.8	3.8	1	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ZEIGLER AST 050620

Pace Project No.: 92476777

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92476777001	AST-1	EPA 3546	540996	EPA 8015C Modified	541236
92476777002	AST-2	EPA 3546	540996	EPA 8015C Modified	541236
92476777003	AST-3	EPA 3546	540996	EPA 8015C Modified	541236
92476777004	AST-4	EPA 3546	540996	EPA 8015C Modified	541236
92476777005	AST-5	EPA 3546	540996	EPA 8015C Modified	541236
92476777005	AST-5	MADEP EPH	541610	MADEP EPH	542036
92476777001	AST-1	EPA 5030B	541392	EPA 8015C Modified	541421
92476777002	AST-2	EPA 5030B	541392	EPA 8015C Modified	541421
92476777003	AST-3	EPA 5030B	541653	EPA 8015C Modified	541673
92476777004	AST-4	EPA 5030B	541653	EPA 8015C Modified	541673
92476777005	AST-5	EPA 5030B	541953	EPA 8015C Modified	542109
92476777005	AST-5	EPA 3546	540876	EPA 8270E	541241
92476777005	AST-5	EPA 5035A	541438	EPA 8260D	541525
92476777001	AST-1	ASTM D2974-87	540821		
92476777002	AST-2	ASTM D2974-87	540821		
92476777003	AST-3	ASTM D2974-87	540821		
92476777004	AST-4	ASTM D2974-87	540821		
92476777005	AST-5	ASTM D2974-87	540839		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

Martin + Slagle

Project #:

WO#: 92476777



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *JW 5.7.20*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: *937061*

Type of Ice: Wet Blue None

Cooler Temp (°C): *5.1* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): *5.1*

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<i>SL</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Received an unlabeled bag of dirt with a plunger in it

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: *[Signature]*

Date: *5/7/20*

Project Manager SRF Review: *[Signature]*

Date: *5/7/20*



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92476777**

PM: LJP

Due Date: 05/21/20

CLIENT: 93-Martin&S1

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1								1												1									
2								1													1								
3								1													1								
4								1													1								
5								2													2								
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



Report of Analysis

Pace Analytical Services, LLC
2225 Riverside Drive
Asheville, NC 28804
Attention: Lorri Patton

Project Name: ZEIGLER AST 050620
Project Number: 92476777
Lot Number: **VE09010**
Date Completed: 05/19/2020

05/20/2020 8:53 PM
Approved and released by:
Project Manager: **Cathy S. Dover**



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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical Services, LLC Lot Number: VE09010

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Pace Analytical Services, LLC ("Pace") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Pace policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" qualifier.

% Solids

Sample VE09010-001 (AST-5) was consumed, thus could not be analyzed at the minimum weight required by the procedure.

MA VPH-Aromatics

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 54252. An LCS/LCSD was run in lieu of an MS/MSD.

Sample VE09010-001 (AST-5) failed surrogate recovery due to the sample being diluted outside of the calibration range of the surrogate.

MA VPH-Aliphatics

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 54255. An LCS/LCSD was run in lieu of an MS/MSD.

Sample VE09010-001 (AST-5) failed surrogate recovery due to the sample being diluted outside of the calibration range of the surrogate.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

PACE ANALYTICAL SERVICES, LLC

Sample Summary

Pace Analytical Services, LLC

Lot Number: VE09010

Project Name: ZEIGLER AST 050620

Project Number: 92476777

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	AST-5	Solid	05/06/2020 1605	05/09/2020

(1 sample)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Pace Analytical Services, LLC
Lot Number: VE09010
Project Name: ZEIGLER AST 050620
Project Number: 92476777

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	AST-5	Solid	C5 - C8 Aliphatics	MADEP-VPH-	230		mg/kg	5
001	AST-5	Solid	C9 - C12 Aliphatics	MADEP-VPH-	1300		mg/kg	5
001	AST-5	Solid	C9 - C10 Aromatics	MADEP-VPH-	690		mg/kg	6

(3 detections)

MADEP VPH (aliphatics)

Client: Pace Analytical Services, LLC	Laboratory ID: VE09010-001
Description: AST-5	Matrix: Solid
Date Sampled: 05/06/2020 1605	Project Name: ZEIGLER AST 050620
Date Received: 05/09/2020	% Solids: 81.2 05/09/2020 1914
Project Number: 92476777	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	VPH	MADEP-VPH-18-2.1	10	05/18/2020 1610	JM1		54255

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
C5 - C8 Aliphatics		MADEP-VPH-	230		52	10	mg/kg	1
C9 - C12 Aliphatics		MADEP-VPH-	1300		52	10	mg/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (FID)	N	48	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

MADEP VPH (aromatics)

Client: Pace Analytical Services, LLC	Laboratory ID: VE09010-001
Description: AST-5	Matrix: Solid
Date Sampled: 05/06/2020 1605	Project Name: ZEIGLER AST 050620
Date Received: 05/09/2020	% Solids: 81.2 05/09/2020 1914
Project Number: 92476777	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	VPH	MADEP-VPH-18-2.1	10	05/18/2020 1610	JM1		54252

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
C9 - C10 Aromatics		MADEP-VPH-	690		17	7.0	mg/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,5-Dibromotoluene (PID)	N	29	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

MADEP VPH (aromatics) - MB

Sample ID: VQ54252-001

Matrix: Solid

Batch: 54252

Prep Method: VPH

Analytical Method: MADEP-VPH-18-2.1

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
C9 - C10 Aromatics	ND		1	1.3	0.50	mg/kg	05/18/2020 1254
Surrogate	Q	% Rec	Acceptance Limit				
2,5-Dibromotoluene (PID)		108	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

MADEP VPH (aromatics) - LCS

Sample ID: VQ54252-002

Matrix: Solid

Batch: 54252

Prep Method: VPH

Analytical Method: MADEP-VPH-18-2.1

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
C9 - C10 Aromatics	1.3	1.4		1	112	70-130	05/18/2020 1157
Surrogate	Q	% Rec	Acceptance Limit				
2,5-Dibromotoluene (PID)		117	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

MADEP VPH (aromatics) - LCSD

Sample ID: VQ54252-003

Matrix: Solid

Batch: 54252

Prep Method: VPH

Analytical Method: MADEP-VPH-18-2.1

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
C9 - C10 Aromatics	1.3	1.4		1	112	0.00	70-130	25	05/18/2020 1225
Surrogate	Q	% Rec	Acceptance Limit						
2,5-Dibromotoluene (PID)		108	70-130						

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

MADEP VPH (aliphatics) - MB

Sample ID: VQ54255-001

Matrix: Solid

Batch: 54255

Prep Method: VPH

Analytical Method: MADEP-VPH-18-2.1

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
C5 - C8 Aliphatics	ND		1	3.8	0.75	mg/kg	05/18/2020 1254
C9 - C12 Aliphatics	ND		1	3.8	0.75	mg/kg	05/18/2020 1254
Surrogate	Q	% Rec	Acceptance Limit				
2,5-Dibromotoluene (FID)		110	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

MADEP VPH (aliphatics) - LCS

Sample ID: VQ54255-002

Matrix: Solid

Batch: 54255

Prep Method: VPH

Analytical Method: MADEP-VPH-18-2.1

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% Rec Limit	Analysis Date
C5 - C8 Aliphatics	7.5	8.4		1	112	70-130	05/18/2020 1157
C9 - C12 Aliphatics	8.8	9.9		1	113	70-130	05/18/2020 1157
Surrogate	Q	% Rec	Acceptance Limit				
2,5-Dibromotoluene (FID)		118	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

MADEP VPH (aliphatics) - LCSD

Sample ID: VQ54255-003

Matrix: Solid

Batch: 54255

Prep Method: VPH

Analytical Method: MADEP-VPH-18-2.1

Parameter	Spike Amount (mg/kg)	Result (mg/kg)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
C5 - C8 Aliphatics	7.5	8.1		1	108	4.0	70-130	25	05/18/2020 1225
C9 - C12 Aliphatics	8.8	9.8		1	112	1.0	70-130	25	05/18/2020 1225
Surrogate	Q	% Rec	Acceptance Limit						
2,5-Dibromotoluene (FID)		114	70-130						

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

**Chain of Custody
and
Miscellaneous Documents**

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

Cert. Needed: Yes No
 Owner Received Date: 5/7/2020 Results Requested By: 5/21/2020

Workorder: 92476777 Workorder Name: ZEIGLER AST 050620

Tom Patton
 Pace Analytical Asheville
 2225 Riverside Dr.
 Asheville, NC 28804
 Phone 1(828)254-7176

Pace Analytical West Columbia
 106 Vantage Point Drive
 West Columbia, SC 29172
 Phone (803)791-9700



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Subbed work with WPH	Requested Analysis	Comments
1	AST-6	PS	5/6/2020 16:05	92476777005	Solid	1	X	VE09010	
2									
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1	<i>[Signature]</i>	5/6/2020	<i>[Signature]</i>	5/6/2020
2				
3	<i>F. [Signature]</i>	5/19/2020	<i>[Signature]</i>	5/19/2020

Cooler Temperature on Receipt 4.8 °C Custody Seal or N Received on Ice or N Samples Intact or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

PACE ANALYTICAL SERVICES, LLC

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: PACE Cooler Inspected by/date: JSH / 05/09/2020 Lot #: VE09010

Means of receipt: <input type="checkbox"/> SESI <input type="checkbox"/> Client: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1. Were custody seals present on the cooler?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt: %Solid Snap-Cup ID: <u>20-302</u> <u>4.8 / 4.8 °C NA / NA °C NA / NA °C NA / NA °C</u>	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes. Quote # <u>NA</u>
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <u>NO</u>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>JSH</u> Date: <u>05/09/2020</u>	

Comments:

APPENDIX C

**WASTE MANIFESTS
AND
DISPOSAL RECORDS**

ENVIRONMENTAL SOILS, INC.

P.O. BOX 295
LATTIMORE, N.C. 28089
704-434-0075

NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

APPROVAL # _____ MANIFEST # _____

LOCATION OF SOIL: Martin & Slagle - 101 Hawthorne Ave
Swainsona NC

TRANSPORTER: Hamilton

TIME: 9:44 AM TRUCK # HH10 GROSS WT. 50620 LBS.
DATE: 6-2-20 LICENSE # _____ TARE WT. 27600 LBS.
DRIVER SIGNATURE John [Signature] NET WT. 23020 LBS.

TIME: 10:05 AM TRUCK # HH9 GROSS WT. 59280 LBS.
DATE: 6-2-20 LICENSE # _____ TARE WT. 28940 LBS.
DRIVER SIGNATURE [Signature] NET WT. 30340 LBS.

TIME: _____ TRUCK # _____ GROSS WT. _____ LBS.
DATE: _____ LICENSE # _____ TARE WT. _____ LBS.
DRIVER SIGNATURE _____ NET WT. _____ LBS.

TIME: _____ TRUCK # _____ GROSS WT. _____ LBS.
DATE: _____ LICENSE # _____ TARE WT. _____ LBS.
DRIVER SIGNATURE _____ NET WT. _____ LBS.

TOTAL NET WT. 53360
TOTAL EQUIV-TONS 26.68

INSPECTED & ACCEPTED BY ENVIRONMENTAL SOILS, INC.
SUPERVISOR'S SIGNATURE Matt R.

Environmental Soils Inc.
PO Box 295 • Lattimore, NC 28089
Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # **51647**

Date _____ Load Number _____

(numbered sequentially as trucks are dispatched)

ENVIRONMENTAL CONSULTANT: Martin & Siegle Geoscience, PA

Contact: Robert Martin Phone: 828-667-3929 Fax: 828-669-5289

GENERATOR: Carl Zeigler

Address: 101 Hawthorne Ave Swannanoa, NC County: Buncombe

Contact: Carl Zeigler Phone: 828-335-2117

WASTE ORIGINATION POINT: Complete Address: 101 Hawthorne Ave, Swannanoa, NC

Class & Type of Contaminate in soil Fuel Oil

SOURCE OF CONTAMINATION: (ex. UST or other source) AST

GENERATORS CERTIFICATION OF WASTE CONSTITUENTS: *In lieu of submitting analytical data (methods 8240 and 8270) verifying that the waste in question does not contain organic constituents other than those which would normally appear in analysis of virgin petroleum product residue, I am submitting this Certificate of Waste Constituents. I certify that I am familiar with the source of contamination of the soil and further certify the source, to the best of my knowledge, contains no contaminants other than that listed above.*

Generators Signature: Robert L. [unclear] for Carl Zeigler Date: _____

TRANSPORTER: _____

Contact: _____ Phone: _____

As the carrier, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured, and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Carrier Signature: John Hamill Date: _____

TRUCK #: HH 10 TAG #: _____ VOLUME: 150620
27600 11.51
23020

TRUCK DRIVER SIGNATURE: _____ DATE: 6-2-20

DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application Site Permit #SR0300038

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: Matthew Date: 6-2-20

Signature: Mark Campbell Date: 6-2-20

Company Name ESI Title: _____

White/Facility

Canary/Invoice

Pink/Carrier

Goldenrod/Generator

ENVIRONMENTAL SOILS, INC.

P.O. BOX 295
LATTIMORE, N.C. 28089
704-434-0075

NON-HAZARDOUS PETROLEUM CONTAMINATED SOIL

APPROVAL # _____ MANIFEST # _____

LOCATION OF SOIL: Martin + Slagle - 101 Hawthorne Ave
Swainsona N.C.

TRANSPORTER: Hamilton

TIME: 9:44 AM TRUCK # HH10 GROSS WT. 50620 LBS.
DATE: 6-2-20 LICENSE # _____ TARE WT. 27600 LBS.
DRIVER SIGNATURE John Hamilton NET WT. 23020 LBS.

TIME: 10:05 AM TRUCK # HH9 GROSS WT. 59280 LBS.
DATE: 6-2-20 LICENSE # _____ TARE WT. 28940 LBS.
DRIVER SIGNATURE John Hamilton NET WT. 30340 LBS.

TIME: _____ TRUCK # _____ GROSS WT. _____ LBS.
DATE: _____ LICENSE # _____ TARE WT. _____ LBS.
DRIVER SIGNATURE _____ NET WT. _____ LBS.

TIME: _____ TRUCK # _____ GROSS WT. _____ LBS.
DATE: _____ LICENSE # _____ TARE WT. _____ LBS.
DRIVER SIGNATURE _____ NET WT. _____ LBS.

TOTAL NET WT. 53360
TOTAL EQUIV-TONS 26.68

INSPECTED & ACCEPTED BY ENVIRONMENTAL SOILS, INC.

SUPERVISOR'S SIGNATURE Matt R.



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

December 10, 2007

Mr. Jerry Robinson
301 Running Briar Road
Fletcher, NC 28732

Re: Acknowledgement of Report Receipt
Jerry Robinson Residence
509 Wilson Avenue, Swannanoa
Buncombe County
Incident Number: 28476
Risk Classification: Low/Residential

Dear Mr. Robinson:

The Underground Storage Tank (UST) Section is in receipt of the report dated December 7, 2007. The report has been reviewed and will be maintained in the Asheville Regional Office.

In accordance with North Carolina General Statute (NCGS) 143-215.94E(e4), the Department shall establish the degree of risk to human health and the environment posed by a discharge or release of petroleum from a commercial or noncommercial underground storage tank and shall determine a schedule for further assessment and cleanup that is based on the degree of risk to human health and the environment posed by the discharge or release and that gives priority to the assessment and cleanup of discharges and releases that pose the greatest risk. At this time your release does not meet the requirements for further assessment or corrective action, and, therefore, you are not directed to proceed.

It should be noted that NCGS 143-215.94E(e4) does not relieve you of your requirements for further assessment and cleanup. The Department will notify you, through a Notice of Regulatory Requirements, when additional assessment or corrective action is required.

NCGS 143-215.94E(e4) does not prohibit you from conducting assessment or cleanup activities. However, State Trust Fund preapproval is required for non-directed work, and you must agree in writing on the "Non Directed Tasks" preapproval/claim authorization forms designated by the Department that any claims for payment or reimbursement of costs for the non-directed tasks will not be paid until after the Department has paid all claims for payment or reimbursement of costs for directed tasks.

If you have questions regarding the information contained in this letter, please contact me at the address or telephone number listed below.

Sincerely,



Michael Streeter, M.Sci., L.G.
Hydrogeologist
Asheville Regional Office

cc: Chris Singleton – Singleton & Jordan

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 (910) 433-3300

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 (704) 663-1699

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 (252) 946-6481

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 (336) 771-5000

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771



North Carolina Department of Environment and Natural Resources

Division of Waste Management

UST Section

Dexter R. Matthews

Director

Pat McCrory
Governor

John E. Skvarla, III
Secretary

April 1, 2013

Ms. Jacquie Cote Suter
P. O. Box 110296
Anchorage, AK 99511

Re: Notice of Regulatory Requirements
NCGS 143B-279.9 and 143B-279.11
Notice of Residual Petroleum

Loretta Cote Residence
222 Alexander Avenue
Swannanoa
Buncombe County
Incident Number: 41084
Risk Classification: Low

Dear Ms. Suter:

The UST Section is in receipt of the Limited Site Assessment Report dated March 8, 2013. The report has been reviewed and the site meets the requirements for a Notice of No Further Action (NFA) based on the low risk classification. In order to obtain the NFA a Notice of Residual Petroleum (Notice) will be required as detailed below.

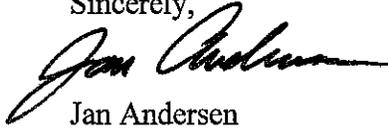
North Carolina General Statute (NCGS) 143B-279.9 and 143B-279.11 require a Notice to be filed with the Register of Deeds in Buncombe County, where the release is located, when a release from an underground storage tank has not been remediated to below "unrestricted use standards". The Notice is required either prior to conveyance of a contaminated property or prior to receiving a Notice of No Further Action. "Unrestricted use standards" for groundwater are the groundwater quality standards and interim standards contained in Title 15A NCAC 2L .0202, and "unrestricted use standards" for soil are the residential maximum soil contaminant concentrations (MSCCs) established in Title 15A NCAC 2L .0411.

The Notice must be prepared in accordance with the attached instructions and format. It must contain a legal description of the property containing the source of contamination and legal descriptions of any other properties which you own (or control) which are contaminated by the release. The Notice must also include appropriate land use restrictions for these properties. In addition, the Notice must identify all other properties (adjacent, adjoining, downgradient, etc.) on which contamination is known to exist at the time the Notice is prepared.

Effective October 1, 2004, the Department requires that all work following the submittal of the Limited Site Assessment Report (Title 15A NCAC 2L .0405) be preapproved if State Trust Fund reimbursement is anticipated. Upon completion of the preapproved activities, you should submit your claim promptly. Reimbursement funds are budgeted based on completed preapprovals, but lengthy delays in reimbursement can occur if claims are not submitted immediately following work completion.

If you have any questions regarding this letter, please contact me at the address or telephone number listed below.

Sincerely,



Jan Andersen
UST Regional Supervisor
Asheville Regional Office

Attachment: Instructions for Preparing Notice of Residual Petroleum

cc: Singleton Environmental, Inc.

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 **(828) 296-4500**

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 **(910) 433-3300**

Mooreville (MOR) – 610 East Center Avenue, Suite 301, Mooreville, NC 28115 **(704) 663-1699**

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 **(919) 791-4200**

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 **(252) 946-6481**

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 **(910) 796-7215**

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 **(336) 771-5000**

Guilford County Environmental Health, 400 West Market Street, Suite 300, Greensboro, NC 27401, **(336) 641-3771**