

EDGE OF WASTE INVESTIGATION

**PHASE 1/2
NORTH MECK C&D LANDFILL FACILITY
PERMIT No. 60-13**

**Prepared For:
GREENWAY WASTE SOLUTIONS OF NORTH MECK, LLC**

**Prepared By:
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
CHARLOTTE, NORTH CAROLINA**

CEC Project 111-370.001

July 10, 2014

North Carolina Board of Examiners
For
Engineers and Surveyors
License No. C-3035



July 10, 2014

Scott L. Brown



Civil & Environmental Consultants, Inc.

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1.0 INTRODUCTION

Greenway Waste Solutions at North Meck, LLC (Facility) is currently operating under Solid Waste Facility Permit Number 60-13. The Facility is located on Holbrooks Road, approximately one and one-half miles east of the intersection of North Carolina Highway 115 and Holbrooks Road in Huntersville, North Carolina. The site is bound on the west by private property owners, on the east by a Mecklenburg County property, the north by Holbrooks Road, and on the south by the private property owners.

The closed disposal area Phase 1/2 is located in the southern portion of the site and is generally bounded by an unnamed tributary of Cane Creek to the north private property to the east and south, and west. Waste placement in this disposal unit generally occurred during the years 1993 to 2002. The disposal area is approximately 23.3 acres.

Based on a request by North Carolina Department of Environment and Natural Resources (NCDENR) on February 12, 2014, Greenway Waste Solutions of North Meck (GWSNM) staff excavated select areas to locate the edge of waste (EOW) of the closed Phase 1/2 area of the North Meck C&D Landfill. Civil & Environmental Consultants, Inc. (CEC) staff was on site June 9-10, 2014 and July 2, 2014 to photograph and document the locations of exploratory pits, measure the depth to waste, and stake the EOW for field survey and mapping. With the information provided in the survey, CEC produced approximate EOW exhibits, which are in Appendix B. In areas that it was not practical or those less critical due to location with respect to property lines, a desktop investigation utilizing historical aerial mapping was undertaken to approximate the edge of waste.

2.0 EXPLORATORY PITS

Exploratory pits were excavated by GWSNM under the supervision of CEC along the assumed EOW at approximately 100 foot intervals along the south, west and east sides of the Phase 1/2 disposal area. It was not practical to excavate along the south-western border of the site since this area was used for stockpiling excess soil which is in excess of thirty (30) feet deep. It was also unnecessary to excavate exploratory pits along the northern edge of the disposal area due to

the lack of disturbance observed on the historical aerials mentioned in Section 3.0. CEC documented the excavation of the pits with photographs and kept a log of the field activities. A report detailing the procedures and observations is located in Appendix A.

3.0 EDGE OF WASTE EXHIBITS

CEC prepared exhibits depicting the locations of the field-surveyed edge of waste stakes, the property line, NCDENR required 75 foot buffer from the property line, stream to the north of the site, a 50 foot buffer from the stream and the EOW. These exhibits can be found in Appendix B. The EOW was approximated in one of two ways, field located or desktop located. The field located EOW is depicted in areas where exploratory pits were excavated in proximity to each other such that it is unlikely that the EOW would vary greatly between exploratory pits. The desktop estimated EOW depicts the areas where it was either unnecessary or not practical to excavate exploratory pits. In this case, CEC obtained historical aerial imagery from 1997, 1999, 2001, and 2002 along with topographic data from 1997 and 2002 from Mecklenburg County. CEC utilized this information to study the sequence of activities occurring at the site and was able to discern the probable EOW.

Aerial photography from 1997, Drawing No. B-1 in Appendix B, suggests that the field located EOW on the west portion of the site follows a distinct ridge. Using this ridge as a guide CEC was able to estimate the EOW between Exploratory Pits 14 and 19. Drawing No. B-4, in Appendix B, suggests that the desktop located EOW on the northern portion of the site is located along the toe of slope between Exploratory Pits 22 and 24. This approximation was made based on the field located EOW between Exploratory Pits 23 and 24 which are inside the toe of slope and the lack of disturbance beyond the northern haul road in historical aerials. The desktop located EOW between Exploratory Pits 12-A and 23 was estimated based on the absence of waste during the excavation of Exploratory Pit 13.

4.0 CONCLUSION

CEC compiled the field information derived from the exploratory pits as well as the historical site aerials and topographic information for the site in order to provide an approximate EOW

around the perimeter of the closed Phase 1/2 disposal area of the North Meck C&D Landfill. This EOW has been shown on Drawing Number B-1 through B-4. The EOW is shown in relation to the property line, 75 foot buffer and 50 foot buffer from the creek. Based on this information it appears as if the EOW lies within the NCDENR-provided buffers with the exception of an area, approximately 280' in length, along the eastern side of the landfill.

APPENDIX A

EDGE OF WASTE FIELD INVESTIGATION

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July 7, 2014

A handwritten signature in blue ink that reads "Scott L. Brown".



Civil & Environmental Consultants, Inc.

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Appendix A – Site Map and Exploratory Pit Exhibit
Appendix B – Photo Log
Appendix C – Field Notes

1.0 INTRODUCTION

Based on a request by North Carolina Department of Environment and Natural Resources (NCDENR) on February 12, 2014 to determine the edge of waste of the closed Phase 1/2 disposal area, Drawing A-1, Greenway Waste Solutions of North Meck (GWSNM) staff under the supervision of Civil & Environmental Consultants, Inc. (CEC), excavated select areas along the perimeter of the closed area. The areas excavated were selected based on the topography of the existing terrain and historical information provided by the Landfill Manager, Roger Barnes. The approximate maximum spacing between exploratory pits was 100 feet. It was not practical to excavate along the south-western border of the site since this area was used for stockpiling excess soil which was in excess of thirty (30) feet deep. CEC staff was on site June 9-10, 2014 and July 2, 2014 to document the locations of exploratory pits, measure the depth to waste, and stake the estimated edge of waste for future survey and mapping. The photo log and field notes prepared by CEC staff can be found in Appendices B and C.

2.0 PROCEDURE

Due to the possible presence of hazardous gases or the displacement of oxygen, CEC staff monitored levels of carbon monoxide, hydrogen sulfide, oxygen, and methane during excavation. Exploratory pits were excavated by GWSNM along the assumed edge of waste at approximately 100 foot intervals along the south, west and east sides of the Phase 1/2 landfill to locate and estimate the actual edge of waste. Once the edge of waste was located, the amount of soil above the waste was measured by CEC staff. Finally, a wooden stake marked with the pit number and fluorescent ribbon was driven into the ground for surveying. CEC documented the excavation of the pits with photographs and kept a log of the field activities. CEC prepared an exhibit depicting the locations of the field-surveyed edge of waste stakes, along with the property line, existing topography and other pertinent information. Finally, a report summarizing the findings, a photo log, copies of the field notes, and the exploratory pit exhibit will be compiled and submitted to NCDENR for review.

3.0 GAS MONITORING

The presence of various gases, utilizing the RAE Systems QRAE II (4 Gas) instrument, was monitored by CEC staff. This instrument samples for the presence of carbon monoxide (CO), hydrogen sulfide (H₂S), oxygen (O₂), and the Lower Explosive Limit (LEL) of methane (CH₄). The presence of these gases was continuously monitored at surface level in the vicinity of the excavator while periodically lowering a hose into the pit to test for their presence in the pit. Table 1 below summarizes the readings during the monitoring for each exploratory pit. In exploratory pits where multiple readings were taken, the worst case for each gas is listed.

Table 1				
Exploratory Pit #	CO (ppm)	H₂S (ppm)	O₂ (%)	LEL, CH₄ (%)
1	0	0.0	20.9	0
2	4	0.0	20.9	0
3	0	0.0	20.9	0
4	0	0.0	20.9	0
5	0	0.0	20.9	0
6	0	0.0	20.9	0
7	0	0.0	20.9	0
8	0	0.0	20.9	0
9	0	0.0	20.9	0
10	0	0.0	20.9	4
11	0	0.0	20.9	9
12	0	0.0	19.6	12
12-A	0	0.0	20.4	3
13	9	0.0	20.9	0
14	0	0.0	20.5	9
15	9	0.0	20.9	5
16	0	0.0	20.5	15

Table 1 (Cont'd)				
Exploratory Pit #	CO (ppm)	H ₂ S (ppm)	O ₂ (%)	LEL, CH ₄ (%)
17	4	1.0	18.7	100
18	2	12.3	20.6	20
19	0	0.0	20.9	10
20	0	0.0	20.9	0
21	0	0.0	20.9	0
22	0	0.0	20.9	0
23	0	0.0	20.9	0
24	0	0.0	20.4	16

4.0 EXCAVATION

Exploratory pits were excavated using a Caterpillar 330 Excavator (Track Hoe) by GWSNM staff. In total, twenty-five (25) exploratory pits were excavated along the southern, eastern, and western borders of the site. No pits were excavated along the northern border since GWSNM owns the property to the north. Drawing A-2 depicts the areas in which exploratory pits were excavated.

The area where Exploratory Pits 1 through 9, 19, 23 and 24 are located is vegetated with mature planted pines and heavy undergrowth in places. Exploratory Pits 10 through 13, 17, 18, and 20 through 22 were excavated on or near existing haul roads. Exploratory Pits 14 through 16 were excavated into a side slope where *Sericea Lespedeza* is the primary vegetative cover. *Sericea Lespedeza* is well suited as vegetative cover due to it being drought tolerant and the ability to form a dense stand on steep or eroded slopes.

5.0 EDGE OF WASTE

The edge of waste was estimated by excavating an exploratory pit in an initial position determined by the Landfill Manager, Roger Barnes. If waste was encountered, the pit was further excavated outward, toward the property line, until clean soil (not containing waste) was encountered. The interface between the waste and clean soil was assumed to be the edge of waste for the given exploratory pit. If waste was not encountered, the pit was further excavated inward, away from the property line, until waste was encountered. Once waste was encountered, the interface between the clean soil and waste was assumed to be the edge of waste.

When each exploratory pit was excavated and the edge of waste was visibly established by CEC staff, a wooden stake marked with the pit number and fluorescent ribbon was driven into the ground. The stake was driven into the ground in visual alignment with the observed edge of waste in the pit with recorded varying offsets from the edge of any given pit. This offset was necessary due to the potential for the edges of the pits to slough off.

6.0 DEPTH TO WASTE

The approximate amount of cover (soil above the top of waste) was measured using a tape measure by CEC staff. Measuring from the existing ground level above the edge of waste to the top of the waste, the approximated cover measurement was established for each exploratory pit. These measurements ranged from two and one half (2.5) feet to eighteen and one half (18.5) feet, with an average measurement of six and three-quarters (6.75) feet of cover over the waste. Table 2 on the following page summarizes the approximate cover associated with each exploratory pit.

Exploratory Pit #	Approximate Cover (ft)	Exploratory Pit #	Approximate Cover (ft)	Exploratory Pit #	Approximate Cover (ft)
1	6	10	3	18	7
2	7.5	11	5.5	19	4
3	6.5	12	4.5	20	10
4	4.5	12-A	4.5	21	11.5
5	5	13	N/A*	22	13
6	4	14	18.5	23	4.5
7	5	15	8	24	3.5
8	6.5	16	11.5		
9	9	17	2.5		

* - No waste was observed, excavation was discontinued at a depth of approximately 15 feet below grade

7.0 SURVEY

The wooden stakes associated with the edge of waste in each exploratory pit was survey located and supplied to CEC in AutoCAD format by Patterson Surveying, P.A.. CEC prepared the Exploratory Pit Exhibit located in Appendix A, which depicts the field located estimated edge of waste, using this information.

8.0 DISCUSSION

The edge of waste was located in all but one (1) of the twenty-five (25) exploratory pits. Due to historical information, Exploratory Pit 13 was assumed to be close to the end of the land-clearing waste on the east side of the site. This was verified by the absence of waste and the nature of the soil encountered during the excavation of Exploratory Pit 13. The end of the land-clearing waste was able to be estimated between Exploratory Pit 12 and 13 through additional excavation.

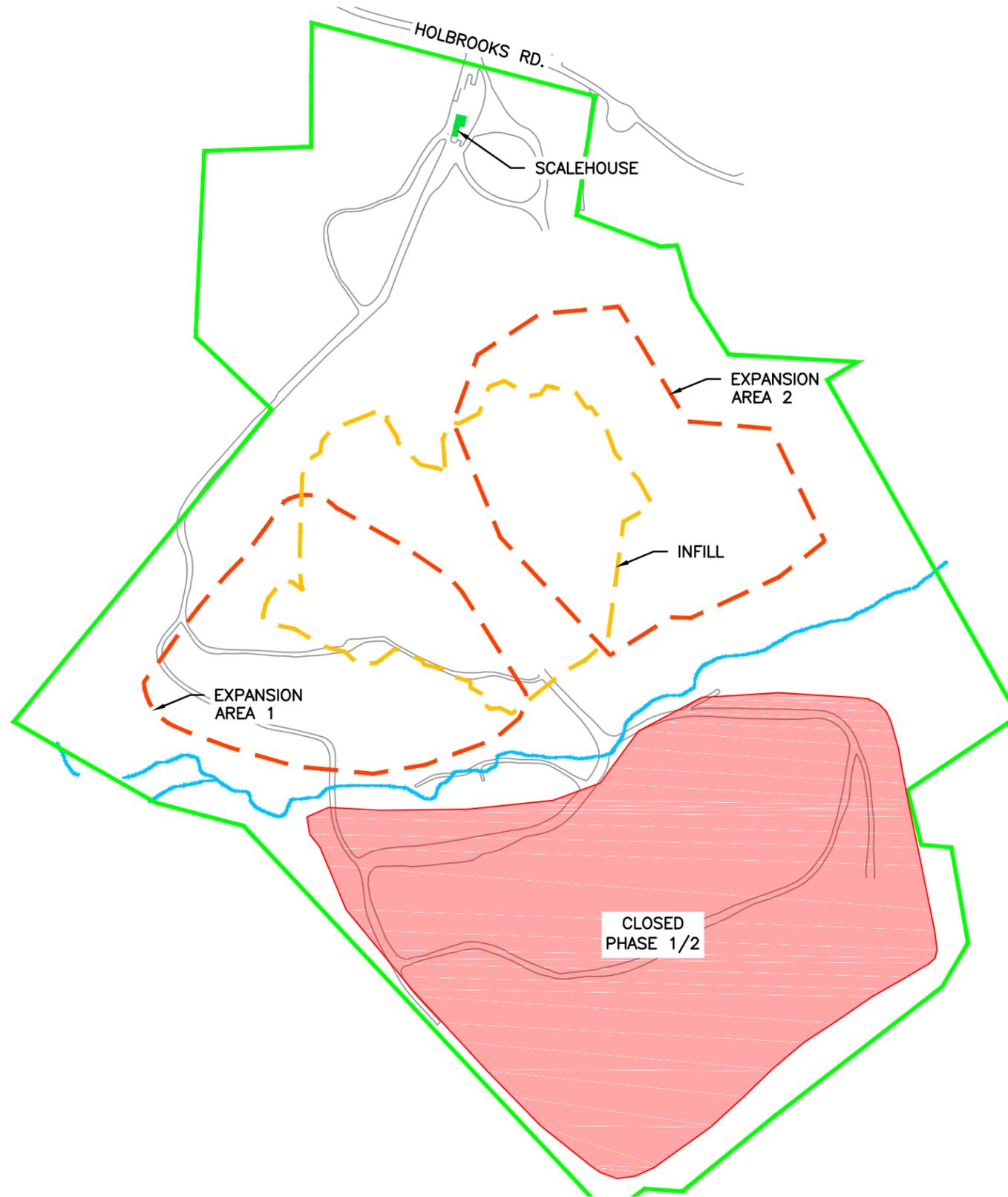
Historical information provided by the Landfill Manager, Roger Barnes, indicated that the depth to waste was expected to be between approximately three (3) and ten (10) feet, all but five (5) of

the pits where waste was encountered fell in this range. Exploratory Pit 14 was excavated to a depth of approximately eighteen and one half (18.5) feet when waste was encountered, Exploratory Pit 16 was excavated to a depth of eleven and one half (11.5) feet when waste was encountered, Exploratory Pit 17 was only excavated to a depth of two and one half (2.5) feet when waste was encountered. Exploratory Pit 21 was excavated to a depth of eleven and on half (11.5) feet when waste was encountered and Exploratory Pit 22 was excavated to a depth of thirteen (13) feet when waste was encountered. These results are summarized in Table 2.

APPENDIX A

SITE MAP AND EXPLORATORY PIT EXHIBIT

P:\2011\111-370\ -CADD\001\DWG\Edge of Waste Investigation\Field Investigation Drawings\111-370.001 - A-1 - Site Map.dwg[11X17] LS:(7/14/2014 - mbarton) - LP: 7/14/2014 1:13 PM



LEGEND	
PROPERTY LINE	
STREAM	
AREA OF INTEREST	

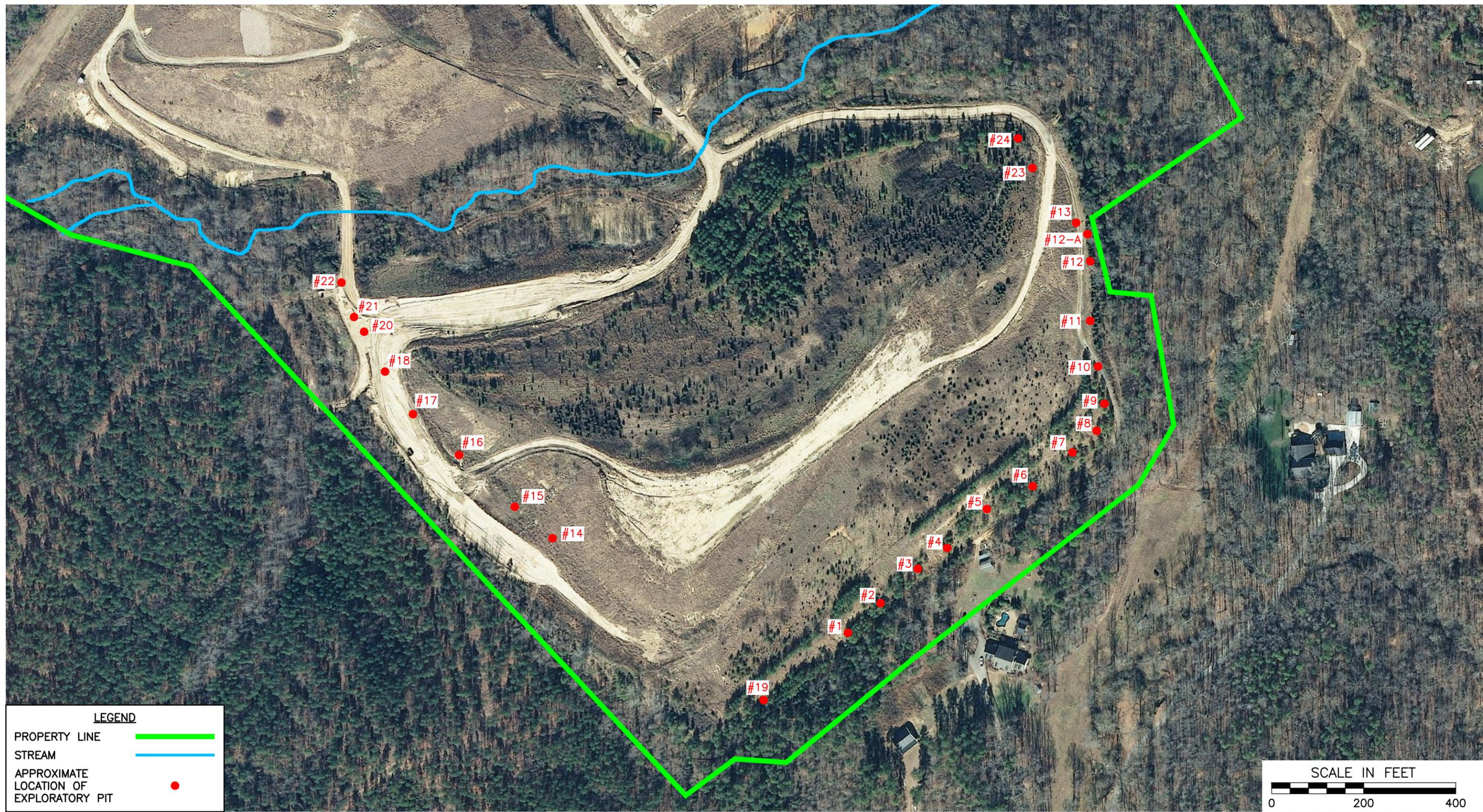



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GREENWAY WASTE SOLUTIONS OF
 NORTH MECK, LLC
 NORTH MECK C&D LANDFILL
 HUNTERVILLE, NC
SITE MAP

DRAWN BY: MTB	CHECKED BY: TMG	APPROVED BY: SLB	DRAWING NO.:
DATE: JUNE 2014	DWG SCALE: 1"=400'	PROJECT NO: 111-370.001	A-1

P:\2011\111-370-CADD\001\Draw\Edge of Waste Investigation\Field Investigation Drawings\111-370.001 - A-2 - Exploratory Pit Exhibit.dwg[11X17] LS:(7/14/2014 - mbarton) - LP: 7/14/2014 1:36 PM

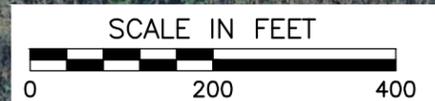


LEGEND

PROPERTY LINE 

STREAM 

APPROXIMATE LOCATION OF EXPLORATORY PIT 



REFERENCE

- 2012 AERIAL IMAGERY OBTAINED FROM USGS.COM.



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NORTH MECK, LLC
NORTH MECK C&D LANDFILL
HUNTERVILLE, NC

EXPLORATORY PIT EXHIBIT

DRAWN BY:	MTB	CHECKED BY:	TMG	APPROVED BY:	SLB	DRAWING NO.:	A-2
DATE:	JUNE 2014	DWG SCALE:	1"=200'	PROJECT NO.:	111-370.001		

APPENDIX B
PHOTO LOG

Photo Number: 1



Description:

Pit: #1

Approximate
Depth
to Waste: 6 feet

Date Taken: 06/09/2014

Photo Number: 2



Description:

Pit: #1

Approximate
Depth
to Waste: 6 feet

Date Taken: 06/09/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 3



Description:

Pit: #1

Approximate
Depth
to Waste: 6 feet

Date Taken: 06/10/2014

Photo Number: 4



Description:

Pit: #2

Approximate
Depth
to Waste: 7.5 feet

Date Taken: 06/09/2014



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Client Name: GWS of North Meck

Project Number: 111-370.001

Author: Matthew Barton

Photographs Taken: June 9-10 and July 2, 2014

Photo Number: 5



Description:

Pit: #2

Approximate
Depth
to Waste: 7.5 feet

Date Taken: 06/09/2014

Photo Number: 6



Description:

Pit: #2

Approximate
Depth
to Waste: 7.5 feet

Date Taken: 06/09/2014



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Project Number:

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Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 7



Description:

Pit: #2

Approximate
Depth
to Waste: 7.5 feet

Date Taken: 06/10/2014

Photo Number: 8



Description:

Pit: #3

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/09/2014



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Author:

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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 9



Description:

Pit: #3

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/09/2014

Photo Number: 10



Description:

Pit: #3

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/09/2014



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Author:

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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 11



Description:

Pit: #3

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/10/2014

Photo Number: 12



Description:

Pit: #4

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/09/2014



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Author:

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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 13



Description:

Pit: #4

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/09/2014

Photo Number: 14



Description:

Pit: #4

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/09/2014



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Author:

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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 15



Description:

Pit: #4

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/10/2014

Photo Number: 16



Description:

Pit: #5

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/09/2014



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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #5

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #5

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/09/2014



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Photographs Taken:

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Photo Number: 17



Description:

Pit: #5

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #6

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/09/2014



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June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #6

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #6

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/09/2014



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Photo Number: 17



Description:

Pit: #6

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #7

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/09/2014



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Photographs Taken:

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Photo Number: 17



Description:

Pit: #7

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #7

Approximate
Depth
to Waste: 5 feet

Date Taken: 06/10/2014



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Author:

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Photographs Taken:

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Photo Number: 17



Description:

Pit: #8

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #8

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/09/2014



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Photographs Taken: June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #8

Approximate
Depth
to Waste: 6.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #9

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/09/2014



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Author:

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Photographs Taken:

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Photo Number: 17



Description:

Pit: #9

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #9

Approximate
Depth
to Waste: 4 feet

Date Taken: 06/10/2014



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Author:

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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #10

Approximate
Depth
to Waste: 3 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #10

Approximate
Depth
to Waste: 3 feet

Date Taken: 06/09/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #10

Approximate
Depth
to Waste: 3 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #10

Approximate
Depth
to Waste: 3 feet

Date Taken: 06/10/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #11

Approximate
Depth
to Waste: 5.5 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #11

Approximate
Depth
to Waste: 5.5 feet

Date Taken: 06/09/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #11

Approximate
Depth
to Waste: 5.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #12

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/09/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #12

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #12

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/10/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #12-A

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014



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Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014



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Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014



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Client Name:

GWS of North Meck

Project Number:

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Author:

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Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/09/2014



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Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #12-13

Approximate
Depth
to Waste: Varies

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #12-13

Approximate
Depth
to Waste: Varies

Date Taken: 06/09/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #12-13

Approximate
Depth
to Waste: Varies

Date Taken: 06/09/2014

Photo Number: 18



Description:

Pit: #12-13

Approximate
Depth
to Waste: Varies

Date Taken: 06/09/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #13

Approximate
Depth
to Waste: No Waste

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #14

Approximate
Depth
to Waste: 18.5 feet

Date Taken: 06/10/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #14

Approximate
Depth
to Waste: 18.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #14

Approximate
Depth
to Waste: 18.5 feet

Date Taken: 06/10/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name: GWS of North Meck
Project Number: 111-370.001
Author: Matthew Barton
Photographs Taken: June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #14

Approximate
Depth
to Waste: 18.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #14

Approximate
Depth
to Waste: 18.5 feet

Date Taken: 06/10/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #14

Approximate
Depth
to Waste: 18.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #15

Approximate
Depth
to Waste: 8 feet

Date Taken: 06/10/2014



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Charlotte, NC

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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #15

Approximate
Depth
to Waste: 8 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #15

Approximate
Depth
to Waste: 8 feet

Date Taken: 06/10/2014



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Charlotte, NC

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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #16

Approximate
Depth
to Waste: 11.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #16

Approximate
Depth
to Waste: 11.5 feet

Date Taken: 06/10/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #16

Approximate
Depth
to Waste: 11.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #17

Approximate
Depth
to Waste: 2.5 feet

Date Taken: 06/10/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #17

Approximate
Depth
to Waste: 2.5 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #17

Approximate
Depth
to Waste: 2.5 feet

Date Taken: 06/10/2014



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Edge of Waste Field Investigation

Client Name: GWS of North Meck

Project Number: 111-370.001

Author: Matthew Barton

Photographs Taken: June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #18

Approximate
Depth
to Waste: 7 feet

Date Taken: 06/10/2014

Photo Number: 18



Description:

Pit: #18

Approximate
Depth
to Waste: 7 feet

Date Taken: 06/10/2014



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Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #18

Approximate
Depth
to Waste: 7 feet

Date Taken: 06/10/2014

Photo Number:



Description:

Pit: #19

Approximate
Depth
to Waste: 4 feet

Date Taken: 07/02/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



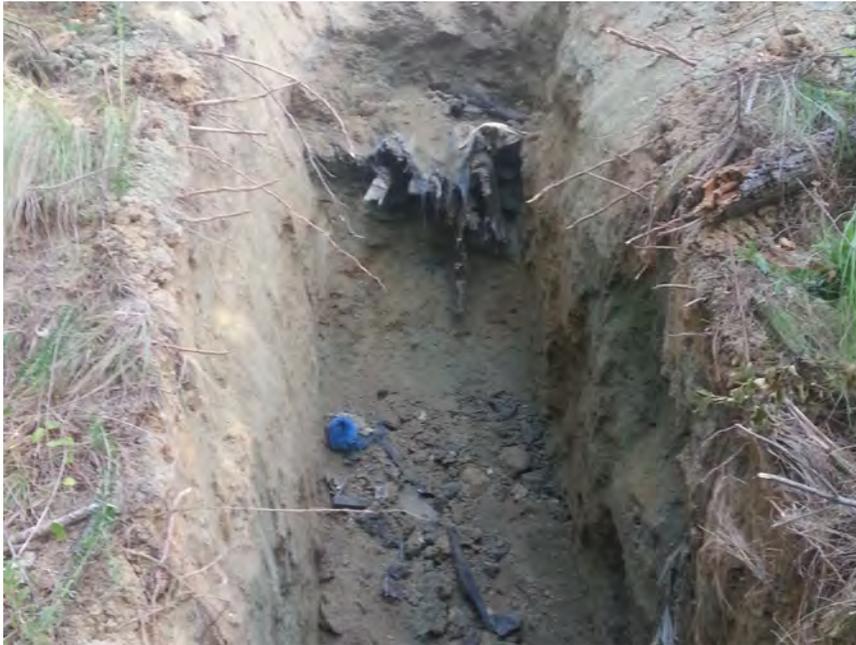
Description:

Pit: #19

Approximate
Depth
to Waste: 4 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #19

Approximate
Depth
to Waste: 4 feet

Date Taken: 07/02/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #20

Approximate
Depth
to Waste: 10 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #20

Approximate
Depth
to Waste: 10 feet

Date Taken: 07/02/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #20

Approximate
Depth
to Waste: 10 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #21

Approximate
Depth
to Waste: 11.5 feet

Date Taken: 07/02/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #21

Approximate
Depth
to Waste: 11.5 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #21

Approximate
Depth
to Waste: 11.5 feet

Date Taken: 07/02/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #22

Approximate
Depth
to Waste: 13 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #22

Approximate
Depth
to Waste: 13 feet

Date Taken: 07/02/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #22

Approximate
Depth
to Waste: 13 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #22

Approximate
Depth
to Waste: 13 feet

Date Taken: 07/02/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #23

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #23

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 07/02/2014



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Client Name:

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Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #23

Approximate
Depth
to Waste: 4.5 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #24

Approximate
Depth
to Waste: 3.5 feet

Date Taken: 07/02/2014



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Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

Photo Number: 17



Description:

Pit: #24

Approximate
Depth
to Waste: 3.5 feet

Date Taken: 07/02/2014

Photo Number:



Description:

Pit: #24

Approximate
Depth
to Waste: 3.5 feet

Date Taken: 07/02/2014



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Greenway Waste Solutions of North Meck, LLC
Edge of Waste Field Investigation

Client Name:

GWS of North Meck

Project Number:

111-370.001

Author:

Matthew Barton

Photographs Taken:

June 9-10 and July 2, 2014

APPENDIX C
FIELD NOTES

11-370,001 North West 20190609

Edge of Waste

Time on Site: 1030 Time off Site: 1515

Weather: Fog in morning

Sunny, hazy, overcast

Picture Numbers of pit: ①

①	pictures 1A 2	6ft cover
②	pictures 3a 4 5	7.5ft cover
③	pics 6, 7, 8	6.5 cover
④	9, 10, 11	4.5 cover
⑤	12, 13, 14	5 cover
⑥	15, 16, 17	4 cover
⑦	18, 19	5 cover
⑧	20, 21	6.5 cover
⑨	22, 23	4 cover
⑩	24, 25, 26	3 cover
⑪	27, 28	5.5 cover
⑫	29, 30	4.5 cover
⑬	31, 32, 33	~18' deep
⑭	34, 35, 36, 37	no waste

Pit Time CO ppm H₂S ppm D₂O % LEFT %

1	1048	0	0.0	20.5	0
2	1050	4	0.0	20.9	0
3	1102	0	0.0	20.2	0
4	1105	0	0.0	20.9	0
5	1112	0	0.0	20.1	0
6	1115	0	0.0	20.7	0
7	1117	0	0.0	20.9	0
8	1123	0	0.0	20.9	0
9	1126	0	0.0	20.2	0
10	1131	0	0.0	20.9	4
11	1140	0	0.0	20.9	9
12	1145	0	0.0	19.6	10
13	1159	9	0.0	20.9	10

13⁰⁰ Digging down full truck here

reach to verify no waste

1425 Verify no waste @ pit 13
Dig between pit 12 and 13
to find end of waste

12-13	1430	0	0.0	20.9	3
1448	0	0.0	20.9	0	

Picture 40
End of waste
Picture 41

20140610

Pt Time
9 1027 STN

S' offset
Picture 15

10 1033 STN

S' offset
Picture 16

11 1038 STN

S' offset
Picture 17

12 1042 STN

S' offset
Picture 18

12-A 1053 STN

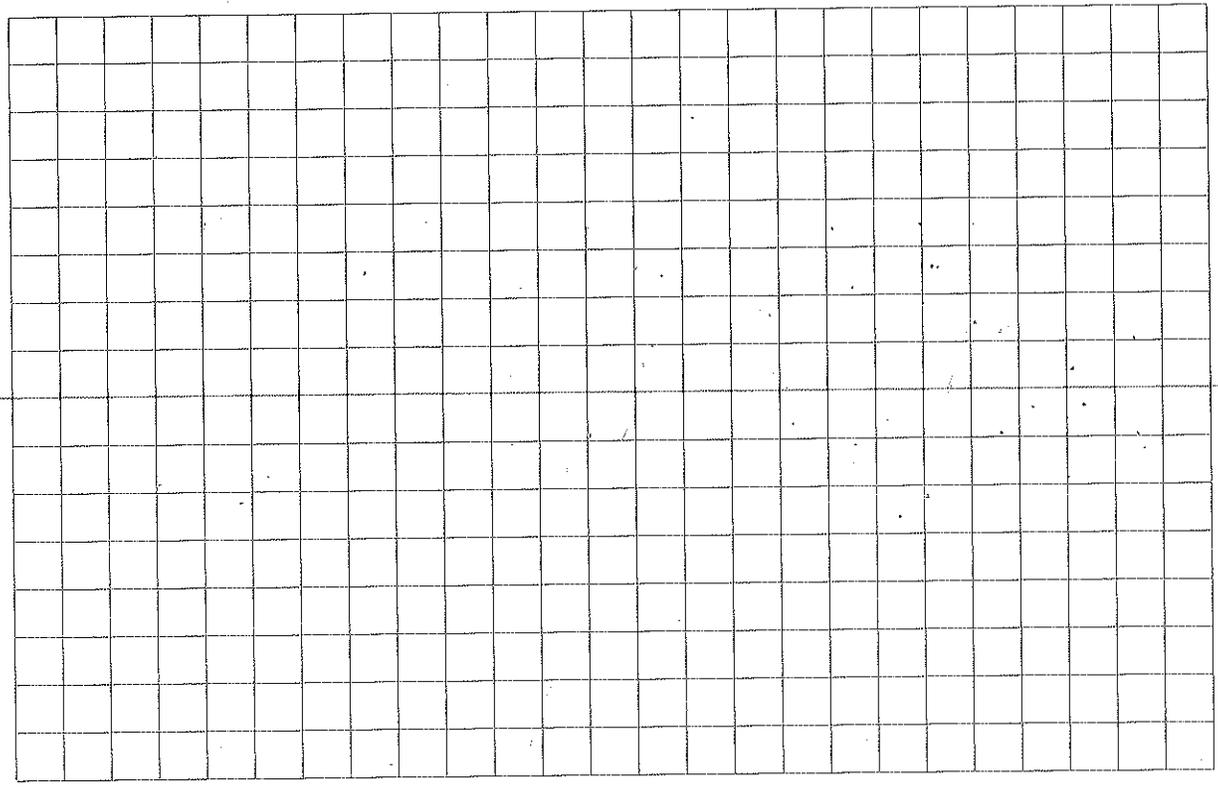
S' offset
Picture 19

13 1053 STN

No offset
No blaster
Picture 20

Property from 1053 NEXT to Pt 13

onboard Picture 21



Pit	Time	Comp	His	Reading	Dist	BL%
19	0750	0	0.0	20.9		10
	EDW	located	dry	before		
	STN	5' offset				
		~ 4' cover				
		Nics 1, 2, 3				
20	0812	0	0.0	20.9		0
	EDW	located	dry	before		
	STN	5' offset				
		~ 10' cover				
		Nics 4, 5, 6				
21	0820	0	0.0	20.9		0
	EDW	located	dry	before		
	STN	5' offset				
		~ 11.5' cover				
		Nics 7, 8, 9, 1				
22	0836	0	0.0	20.9		0
		located				
	0849	0	0.0	20.9		0
	0858	0	0.0	20.9		0
	0906	0	0.0	20.9		0
	EDW	located				
	STN	5' offset				
		13' cover				
		Pictures 10, 11, 12, 13				

11-370.001 Limited
 Time on site: 0720
 Weather: ~ 75°F
 Clear & Sunny
 Time off site: 1030

Pit Time CO ppm H₂S O₂ LEL%
 23 0.851 0 0.0 20.9 0

FOU Local
 STN 5' offset

~ 4.5' cover
 Pres 14, 15, 16, 17

24 1005 0 0.0 20.4 16

FOU Local
 STN 5' offset

~ 3.5 cover
 Pres 17, 18, 19

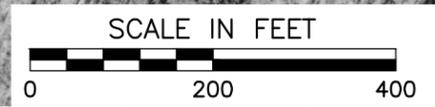
2140702

APPENDIX B
EDGE OF WASTE EXHIBITS

P:\2011\111-370-CADD\001\Draw\Edge of Waste Investigation\Investigation Report Drawings\111-370.001 - B-1 - 1997 Aerial.dwg{11X17} LS:[7/14/2014 - mbaron] - LP: 7/14/2014 1:47 PM



LEGEND	
PROPERTY LINE	
BUFFER	
STREAM	
APPROXIMATE LOCATION OF TEST PIT	
APPROXIMATE FIELD LOCATED EDGE OF WASTE	
APPROXIMATE DESK LOCATED EDGE OF WASTE	



REFERENCE

1. 1997 AERIAL IMAGERY OBTAINED FROM MECKLENBURG COUNTY GIS DIVISION ON JUNE 3, 2014.


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GREENWAY WASTE SOLUTIONS OF
 NORTH MECK, LLC
 NORTH MECK C&D LANDFILL
 HUNTERVILLE, NC

 1997 AERIAL

DRAWN BY:	MTB	CHECKED BY:	TMG	APPROVED BY:	SLB	DRAWING NO.:	B-1
DATE:	JULY 2014	DWG SCALE:	1"=200'	PROJECT NO.:	111-370.001		

P:\2011\111-370-CADD\001\DWG\Edge of Waste Investigation\Investigation Report Drawings\111-370.001 - B-2 - 1999 Aerial.dwg\11X17} LS:(7/14/2014 - mbaron) - LP: 7/14/2014 2:08 PM



LEGEND	
PROPERTY LINE	
BUFFER	
STREAM	
APPROXIMATE LOCATION OF TEST PIT	
APPROXIMATE FIELD LOCATED EDGE OF WASTE	
APPROXIMATE DESK LOCATED EDGE OF WASTE	



REFERENCE

1. 1999 AERIAL IMAGERY OBTAINED FROM MECKLENBURG COUNTY GIS DIVISION ON JUNE 3, 2014.

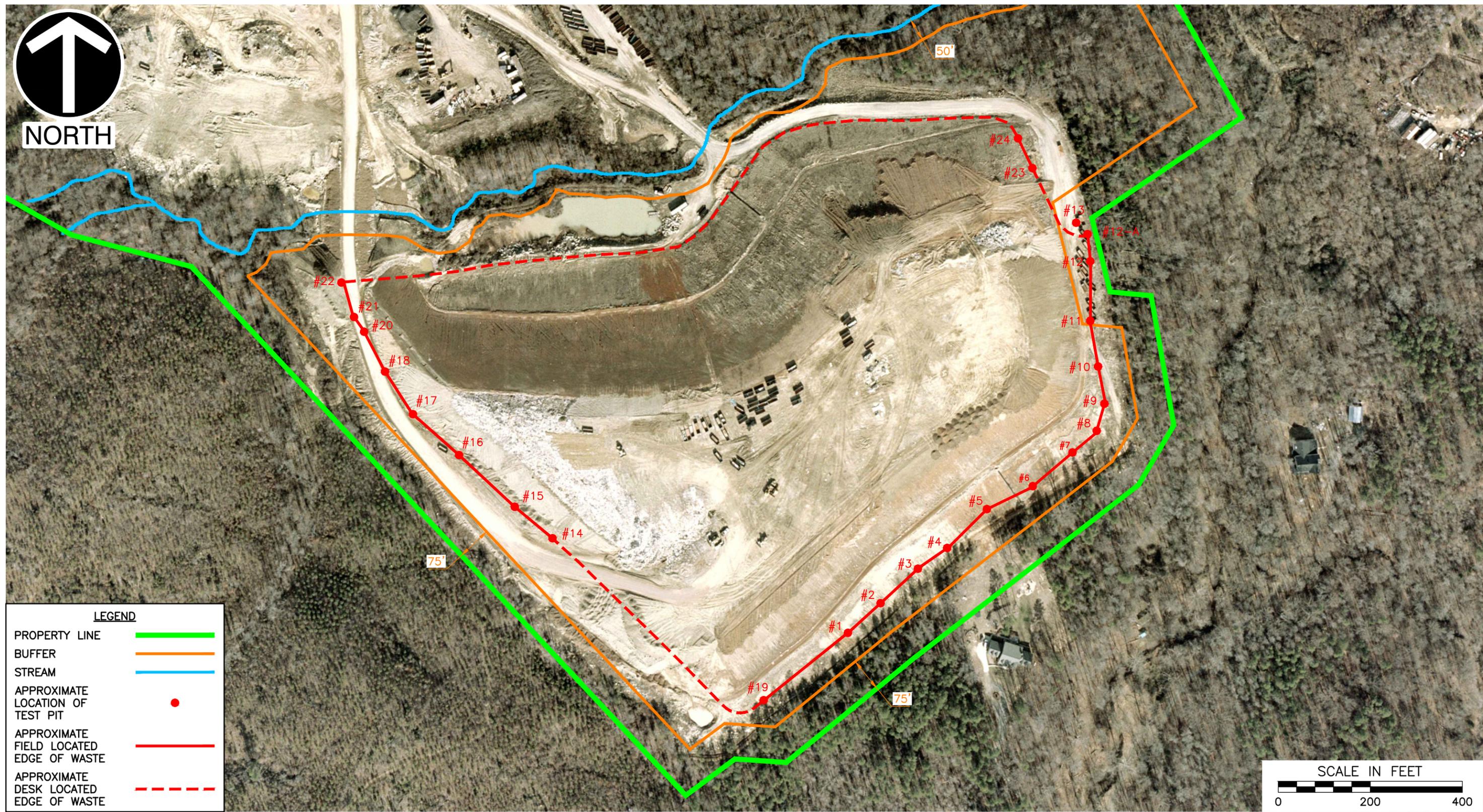

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GREENWAY WASTE SOLUTIONS OF
 NORTH MECK, LLC
 NORTH MECK C&D LANDFILL
 HUNTERVILLE, NC

 1999 AERIAL

DRAWN BY:	MTB	CHECKED BY:	TMG	APPROVED BY:	SLB	DRAWING NO.:	B-2
DATE:	JULY 2014	DWG SCALE:	1"=200'	PROJECT NO.:	111-370.001		

P:\2011\111-370-CADD\001\Draw Edge of Waste Investigation\Investigation Report Drawings\111-370.001 - B-3 - 2001 Aerial.dwg{11X17} LS:(7/9/2014 - mbarton) - LP: 7/14/2014 2:08 PM



LEGEND	
PROPERTY LINE	
BUFFER	
STREAM	
APPROXIMATE LOCATION OF TEST PIT	
APPROXIMATE FIELD LOCATED EDGE OF WASTE	
APPROXIMATE DESK LOCATED EDGE OF WASTE	



REFERENCE

- 2001 AERIAL IMAGERY OBTAINED FROM MECKLENBURG COUNTY GIS DIVISION ON JUNE 3, 2014.

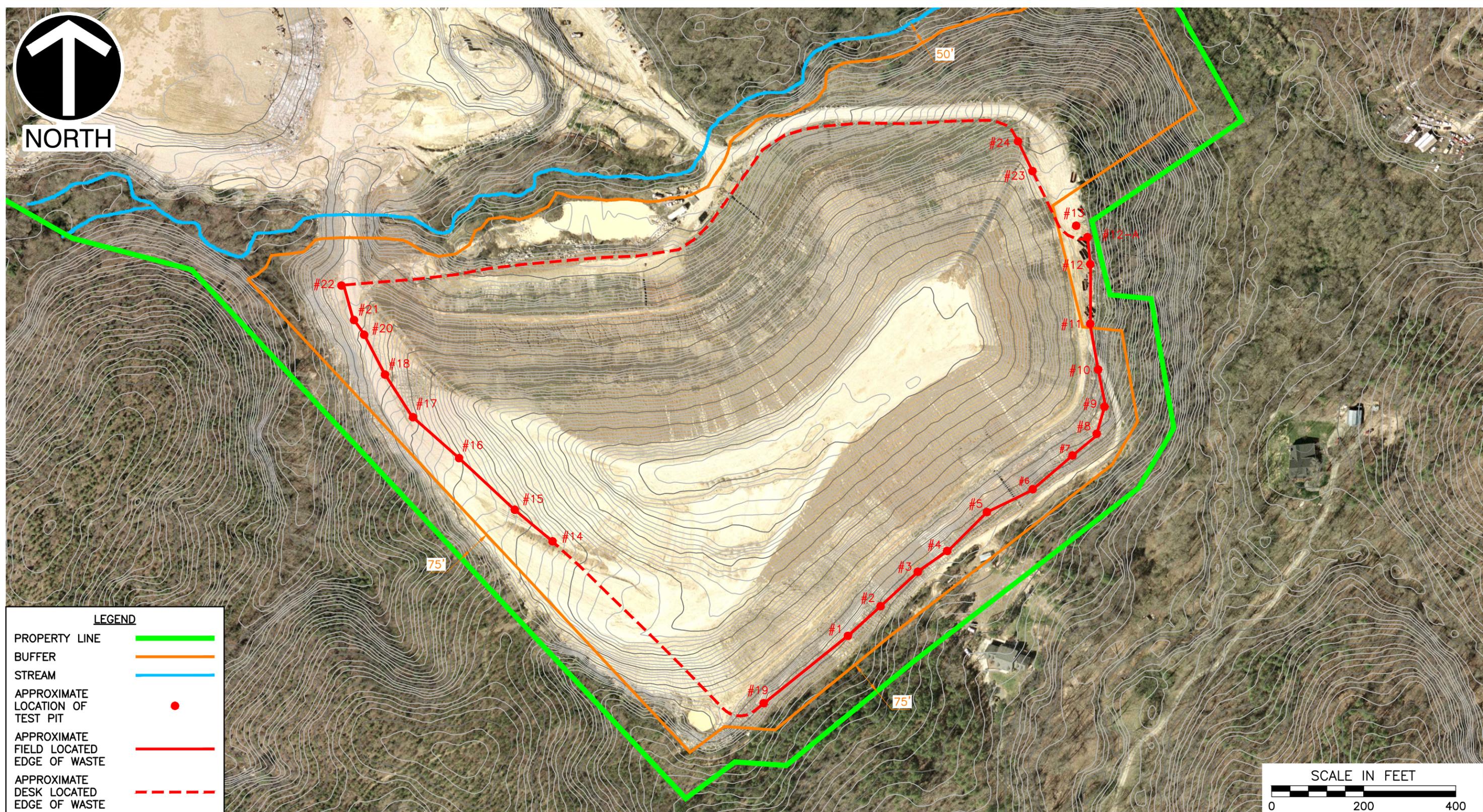

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 www.cecinc.com

GREENWAY WASTE SOLUTIONS OF
 NORTH MECK, LLC
 NORTH MECK C&D LANDFILL
 HUNTERVILLE, NC

 2001 AERIAL

DRAWN BY:	MTB	CHECKED BY:	TMG	APPROVED BY:	SLB	DRAWING NO.:	B-3
DATE:	JULY 2014	DWG SCALE:	1"=200'	PROJECT NO.:	111-370.001		

P:\2011\111-370-CADD\001\Draw\Edge of Waste Investigation\Investigation Report Drawings\111-370.001 - B-4 - 2002 Aerial with TOPO.dwg\111171 LS:(7/9/2014 - mbarton) - LP: 7/14/2014 2:09 PM



LEGEND

PROPERTY LINE	
BUFFER	
STREAM	
APPROXIMATE LOCATION OF TEST PIT	
APPROXIMATE FIELD LOCATED EDGE OF WASTE	
APPROXIMATE DESK LOCATED EDGE OF WASTE	

REFERENCE

- 2002 AERIAL IMAGERY AND TOPOGRAPHIC DATA OBTAINED FROM MECKLENBURG COUNTY GIS DIVISION ON JUNE 3, 2014.



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HUNTERVILLE, NC

2002 AERIAL WITH TOPO

DRAWN BY:	MTB	CHECKED BY:	TMG	APPROVED BY:	SLB	DRAWING NO.:	B-4
DATE:	JULY 2014	DWG SCALE:	1"=200'	PROJECT NO.:	111-370.001		