



March 19, 2014

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
NCDENR
1646 Mail Service Center
Raleigh, North Carolina 27699-1646



Subject: **Draft Site Survey Map
City of Albemarle Landfill
DSWM Permit No. 84-01
Shield Project 1110192**

Dear Mr. Lane:

On behalf of the City of Albemarle, Shield Engineering, Inc. (Shield) is pleased to submit the attached draft Site Survey Map of the above referenced site. This draft Site Survey Map is being submitted to your attention for your review. Shield understands that Solid Waste Section (SWS), after reviewing this map, will be requiring the City of Albemarle to record this Site Survey Map at the Stanly County Courthouse.

The request for this draft Site Survey Map originated with your letter dated April 19, 2011. On behalf of the City of Albemarle, Shield submitted a response to this original request dated November 21, 2012. Within this response the points raised within the original letter from SWS were addressed. Subsequently, on January 14, 2013 during a phone conversation between yourself and our Mr. Wallace, we had discussed the additional items that you considered necessary on this Site Survey Map. These additional items included the following:

1. Delineation of the waste deposited at the various cells located at the site;
2. Delineation of the areas of groundwater contamination at the site; and
3. Location of the monitoring wells on the Site Survey Map.

Following on from that discussion you had sent to Shield by e-mail dated January 16, 2013 an example of a site survey map that had been filed at a county courthouse for another North



Carolina landfill location.

Based on our understanding of the original request (i.e., letter from SWS dated April 19, 2011), the purpose of this requested recordation for the City of Albemarle Landfill site is to have the property recorded at the county courthouse as having been used for the deposition of municipal solid waste.

As you may also recall, we have discussed with you that the City of Albemarle has completed the purchase of an adjacent property located to the southwest of the existing landfill site. The purpose of this purchase was to acquire sufficient property to provide a buffer along that side of the existing landfill. Since no municipal solid waste has ever been deposited on this newly acquired property, the City of Albemarle does not want to record all of this newly acquired property as having municipal solid waste located on that property. Therefore, the City of Albemarle has elected to subdivide the newly acquired property parcel into two separate parcels. A 300-foot wide strip of land from this newly acquired parcel (i.e., 24.8 acres) will be added to the landfill property, as a new buffer strip for the former unlined landfill cells located along the southwest side of the existing property. The remaining portion of the newly acquired property (i.e., 80.2 acres) will not be included with the landfill property.

The draft Site Survey Map has been completed and is attached with this letter. The monitoring wells used at this site are shown on the attached map. Additionally, the methane monitoring probes are also located on this draft Site Survey Map. The surveyor has also surveyed the "Approximate Edge of Waste" markers located around the former unlined landfill cells at the site and the "Edge of Liner" for the lined landfill cells. These are shown on the attached draft Site Survey Map. The surveyor can not exhibit a surveyed specific waste boundary line for the limits of the waste of these former unlined cells, since the actual waste is not visible at ground surface for surveying purposes. Similarly the surveyor can not exhibit areas of groundwater contamination on the draft Site Survey Map as the limits of the groundwater that exceeds the North Carolina 2L Groundwater Standards (NC 2L) are not visible for surveying purposes nor can they be definitively defined on the ground. Additionally, the presence of groundwater

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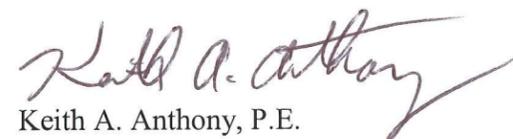
exceeding the NC 2L Standards is a variable condition and is not a static condition that lends itself to being shown as a permanent fixture on any map recorded at a County Courthouse.

The City of Albemarle considers that this draft Site Survey Map encompasses those parameters that the SWS requires to be recorded at the Stanly County Courthouse, without requesting the surveyor to speculate as to the location of the specific waste limits (i.e., former unlined waste cells) and groundwater contamination limits. Hence, the City of Albemarle considers that this draft Site Survey Map serves the desired purpose of filing this map at the Stanly County Courthouse expressed by SWS of recording this site as having landfill waste disposal areas on this specific property.

If you should have any questions please do not hesitate to call me at your convenience to discuss the contents of this letter.

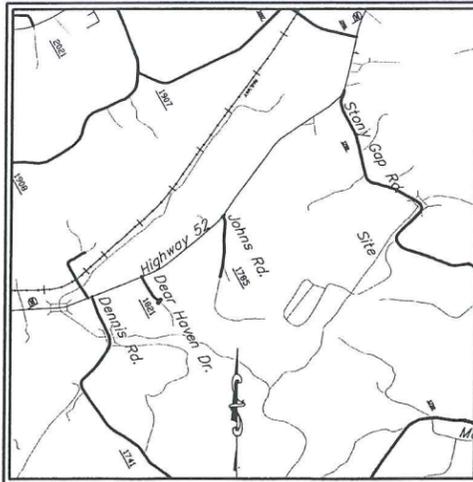
Sincerely,
SHIELD ENGINEERING, INC.


J. David Wallace, P.E.
Senior Engineer


Keith A. Anthony, P.E.
Chief Engineer

Attachment: Draft Site Survey Map for City of Albemarle Landfill

cc: Ms. Nina Underwood, Public Works Director
Mr. Darren Preslar, Landfill Superintendent
Mr. R. Brant Lane, P.E., Hodges, Harbin, Newberry & Tribble, Inc.
Mr. Drew Lawrence, P.L.S., Lawrence Associates.



Vicinity Map (not to Scale)

Flood Certification
 I have examined the Flood Insurance Rate Map for Stanly County North Carolina, Community Panel Number 3710655600 J and 3710655700, dated September 3, 2008, and hereby certify that this property is not located in a special flood hazard area as determined by the Federal Emergency Management Agency.

Certificate of Survey and Accuracy
 State of North Carolina, Union County
 I, F. Donald Lawrence, certify that this plat was drawn under my supervision from an actual survey made under my supervision deed recorded in Book (As shown); that the boundaries not surveyed are clearly indicated as dashed lines drawn from adjoining owners deeds as shown; that the ratio of precision as calculated is 1:10,000 or better; that this plat was prepared in accordance with G.S. 47-30 as amended. This survey is a recombination of existing parcels, a court ordered survey or other exception to the definition of subdivision.

Witness my original signature, registration number and seal this the _____ day of _____ A.D., 20____.

F. Donald Lawrence, NCPLS L-1290

STATE OF NORTH CAROLINA
 COUNTY OF STANLY

I, _____ Review Officer of Stanly County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

Date _____ Review Officer _____

Stanly County Health Department

The Environmental Health Section of the Stanly County Health Department has or has not conducted soil/site evaluations and issued improvements permits on the following tracts.

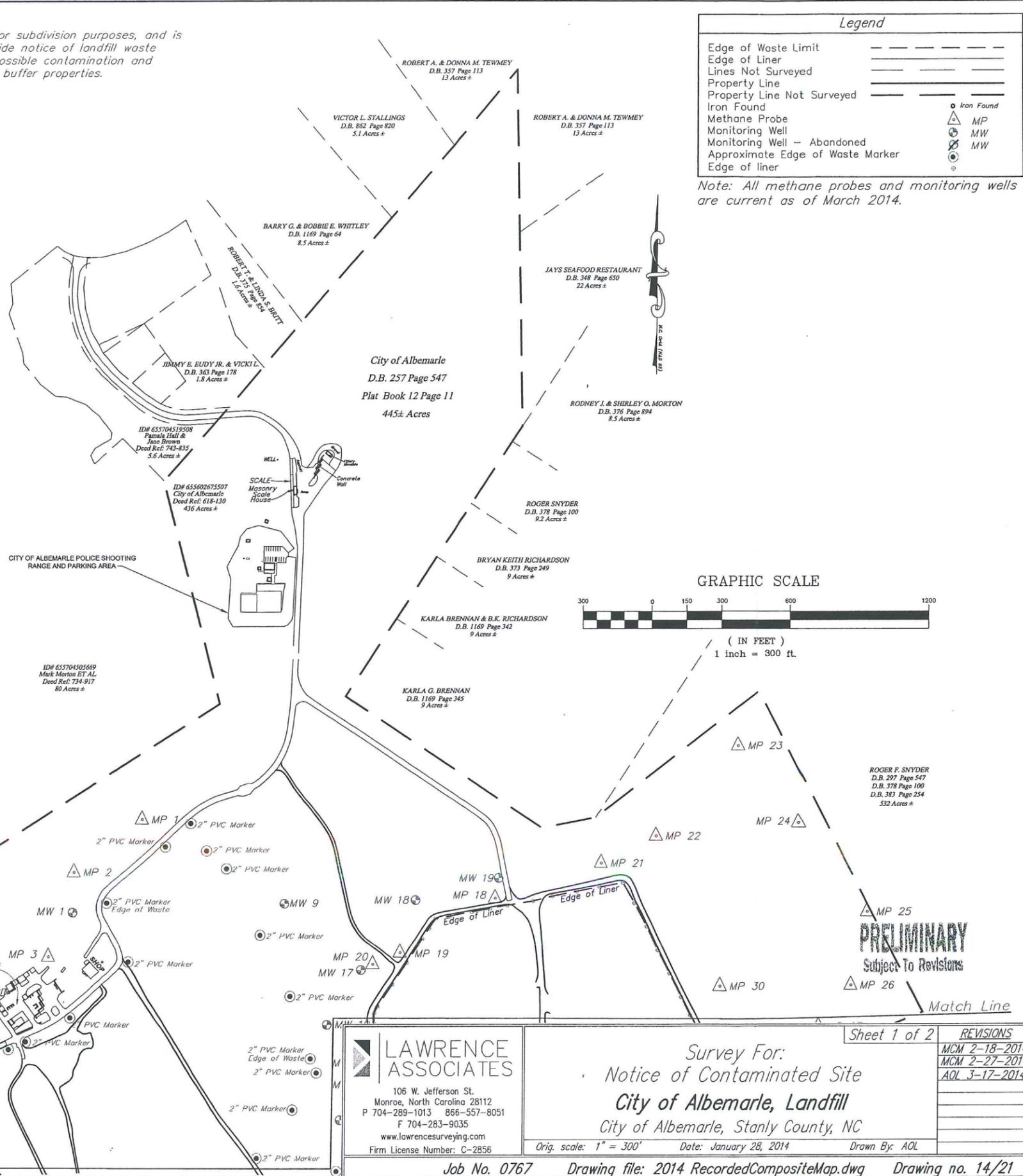
Environmental Health Specialist _____ Date _____

ID# 655601399410
 Geraldine H. & H.L. Bifford
 Deed Ref: 204-155
 79 Acres ±

Notice
 This Plat is not for subdivision purposes, and is recorded to provide notice of landfill waste disposal areas, possible contamination and restricted landfill buffer properties.

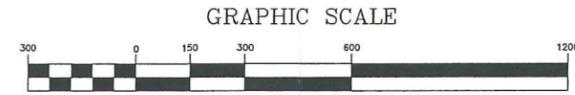
NOTE:
 Monitor Wells 13-27 Surveyed by others.

PRELIMINARY
 Subject To Revisions



Legend	
Edge of Waste Limit	---
Edge of Liner	---
Lines Not Surveyed	---
Property Line	---
Property Line Not Surveyed	---
Iron Found	○ Iron Found
Methane Probe	△ MP
Monitoring Well	⊕ MW
Monitoring Well - Abandoned	⊖ MW
Approximate Edge of Waste Marker	⊙
Edge of liner	---

Note: All methane probes and monitoring wells are current as of March 2014.



(IN FEET)
 1 inch = 300 ft.

ROGER F. SNYDER
 D.B. 297 Page 547
 D.B. 378 Page 100
 D.B. 383 Page 254
 532 Acres ±

PRELIMINARY
 Subject To Revisions

L:\Michael\laco\10767 Albemarle Landfill\2014 Recorded CompositeMap-rev.dwg 2/27/2014 2:15:37 PM EST

LAWRENCE ASSOCIATES
 106 W. Jefferson St.
 Monroe, North Carolina 28112
 P 704-289-1013 866-557-8051
 F 704-283-9035
 www.lawrencesurveying.com
 Firm License Number: C-2856

Survey For:
 Notice of Contaminated Site
City of Albemarle, Landfill
 City of Albemarle, Stanly County, NC

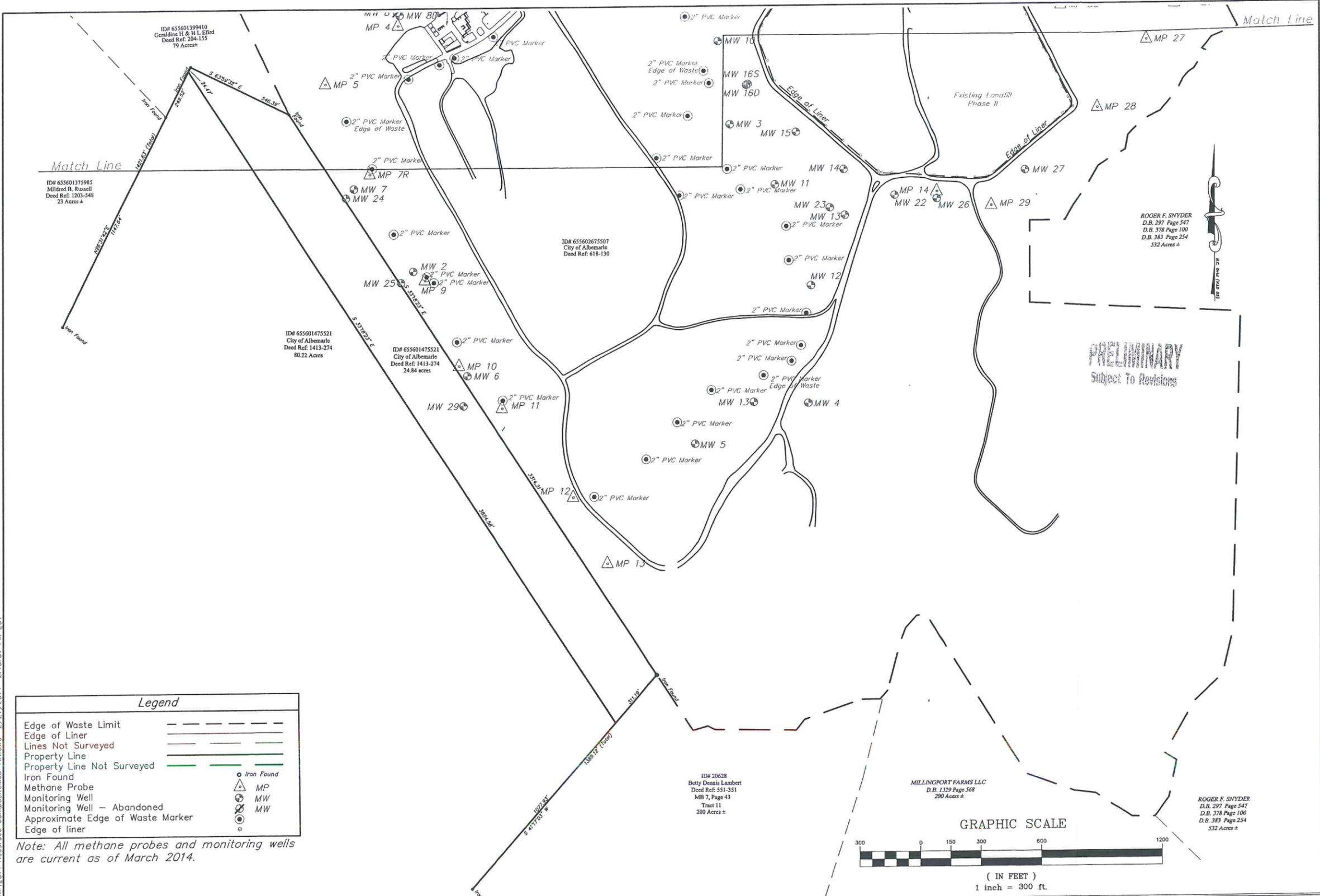
Orig. scale: 1" = 300' Date: January 28, 2014 Drawn By: AOL

Job No. 0767 Drawing file: 2014 RecordedCompositeMap.dwg Drawing no. 14/21

REVISIONS
MCM 2-18-2014
MCM 2-27-2014
AOL 3-17-2014

Sheet 1 of 2

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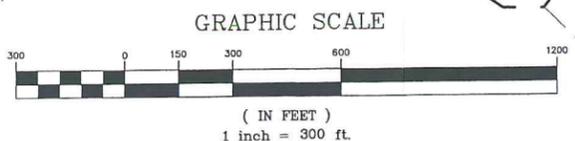


Legend	
Edge of Waste Limit	--- ---
Edge of Liner	====
Lines Not Surveyed	-----
Property Line	_____
Property Line Not Surveyed	-----
Iron Found	⊙
Methane Probe	△ MP
Monitoring Well - Abandoned	⊕ MW
Approximate Edge of Waste Marker	⊙ MW
Edge of liner	○

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Sheet 2 of 2	REVISIONS
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