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NORTHEAST DISTRICT  
DEP-JACKSONVILLE

05/11/2010

Mr. Emerson Raulerson  
Solid Waste Section Supervisor  
Florida Department of Environmental Protection  
7825 Baymeadows Way, Suite 200B  
Jacksonville, FL 32256

RE: FDEP Permit Number: 0013493-017-SO  
Trail Ridge Landfill  
Annual Topographic Survey for 2010

Dear Mr. Raulerson:

In accordance with Specific Condition 30 of the referenced permit, we are enclosing the Annual Topographical Survey for Trail Ridge Landfill. The current permitted maximum design elevation is 350.6 Feet NGVD. The survey indicates the site is well below this elevation. The terraces, toe of slope, and other features of the site are easily identifiable from this survey.

Please call me at 904-289-9100 if you have any questions or comments concerning this enclosure.

Sincerely,

A handwritten signature in black ink, appearing to read "Edward Schmalfeld", with a long, sweeping horizontal line extending to the right.

Edward Schmalfeld, P.E.  
Site Manager

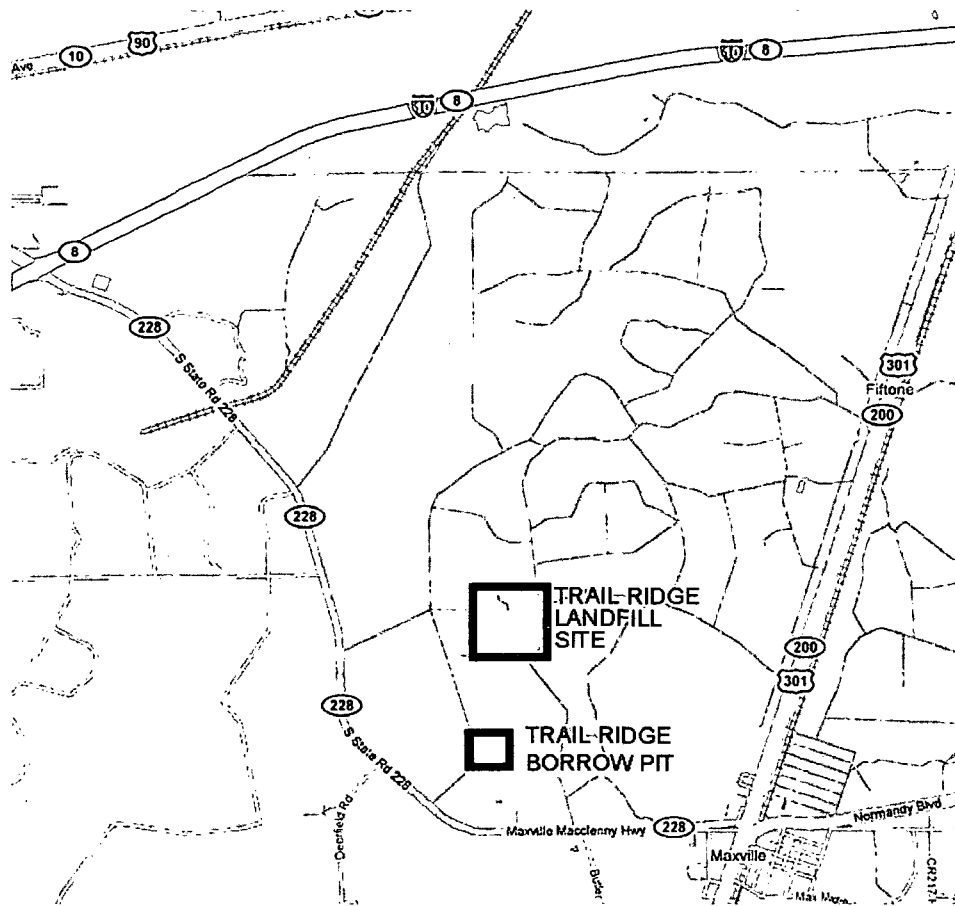
ES:kn

Enclosures

Cc: Chris Pearson, City of Jacksonville

**REPORT OF AERIAL TOPOGRAPHIC SURVEY  
TRAIL RIDGE LANDFILL  
JACKSON COUNTY, FLORIDA  
March 4, 2010**

**John H. Matthews, Jr.**  
Professional Surveyor and Mapper No. 5425  
4004 Gaineswood Lane  
Tuscaloosa, AL 35406  
205-333-9900  
john@srmcmmaps.com



**Vicinity Map**  
Not to Scale

**Topographic Survey:**

This document has been prepared in accordance with Chapter 61G17-6 of the Florida State Department of Business and Professional Regulation code, which addresses minimum technical standards of the surveying and mapping industry.

**NOTE:** This survey map and report or the copies thereof are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper."

**John H. Matthews, Jr., PSM No. 5425**  
Project Name: Trail Ridge Landfill, Duval County, Florida  
Title/Type of Survey: Aerial Topographic Survey  
Date of Imagery 02/16/10  
Scale of Aerial Photography: 1:7,200

Photogrammetric methods were used in the performance of this Topographic Survey. The accuracy of this survey was tested and verified by:

**John H. Matthews, Jr.**  
Professional Surveyor and Mapper, Number 5425  
4004 Gaineswood Lane  
Tuscaloosa, AL 35406  
205-333-9900  
john@srmcmmaps.com

**This accuracy survey was performed for:**  
Southern Resources Mapping Corporation  
2808-4 McFarland Boulevard  
Northport, AL 35476  
Telephone: 205-333-9900

Additions or deletions to the report or maps by other than the signing party are forbidden without the consent of the signing party. The maps and report are not full and complete without the other.

**Methods:**

All map data were collected using photogrammetric methods from aerial photography dated 02/16/10 acquired at an altitude of 3,600' above mean terrain to produce a photo scale of 1:7,200 (1"=600'). Fully digital stereo plotters were used in the collection of digital data with photogrammetric software specifically designed for the compilation of positional information from stereo imagery.

The relative location of the site improvements (i.e. roads, trails, streets, fences, buildings, and drainage features) has been accurately portrayed with respect to the ground control survey. Planimetric features and details were collected commensurate with the final output map scale and the ability of the operator to see and interpret these features from the photography. All items intended to be collected are shown in the legend.

Areas where the ground is obscured by heavy vegetation have been identified with dashed contours. The contours in these areas are estimated and obscured planimetric features may be omitted. These areas should be field-verified prior to any design work being preformed.

**Data Sources:**

The horizontal and vertical control used for this project was obtained from Latitude Surveying and Mapping, 3988 Highway 90 Marianna, FL 32446. 850-482-2166. The photography used for this project was obtained on February 16, 2010.

**Vertical Datum:**

The vertical datum is NGVD 1929. Elevations are based on site benchmarks obtained from Latitude Surveying and Mapping, 3988 Highway 90 Marianna, FL 32446. 850-482-2166.

The horizontal datum is Florida Coordinate System, North Zone, NAD 1927. All horizontal and vertical ground control and map data is expressed in U.S. Survey Feet.

**Accuracies:**

The maps and digital files for this project meet the Minimum Technical Standards of the State of Florida:

- At least 90% of the ground point elevations of well-defined features contained in this map have been measured to an estimated vertical positional accuracy of: +/-1.0 feet.
- The coordinates of at least 90% of well-defined features contained in this survey and map have been measured to an estimated horizontal positional accuracy of: +/-2.5 feet.

Horizontal and vertical accuracy is determined from the absolute orientation solution, which is based upon ground control values received from Latitude Surveying and Mapping, 3988 Highway 90 Marianna, FL 32446. 850-482-2166. The map is intended to be displayed at a scale of 1:2400 (1"=200') or smaller.

**Intended Features:**

All features identified within the mapping limits and shown in the map legend in the CAD file were intended to be surveyed and mapped in their entirety. All line drawn features are shown to scale. Symbols do not represent the actual size of the object. Refer to the Legend in the CAD file for the cartographic representation of each feature.

This mapping should be used for preliminary design work only, and should not replace an actual field-run survey where the required accuracy is greater than the accuracy stated in this report.

This survey is restricted to the active areas of the landfill for which the company contracted to update. No responsibility, expressed or implied, is assumed for the areas outside this scope.

The signing party assumes no responsibility for the accuracy of the ground control or the boundary information provided by Latitude Surveying and Mapping, 3988 Highway 90 Marianna, FL 32446. 850-482-2166.

To the best of my knowledge and belief, based on my review, all of the products meet the accuracy and quality standards as required.

**Prepared for:**

Southern Resources Mapping Corporation  
2808-4 McFarland Boulevard  
Northport, AL 35476

**Certification:**

To the best of my knowledge this survey and report meet all applicable requirements of the Florida Minimum Technical Standards as contained in Chapter 61G17-6 FAC pursuant to Section 472.027 Florida Statutes.

**Surveyor and Mapper in Responsible Charge:**

John H. Matthews, Jr.  
Professional Surveyor and Mapper  
License Number LS 5425

Signed: 

Seal: 

1 OVER SIZED  
MAP SCANNED  
SEPARATELY