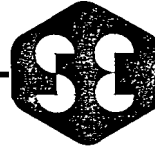


# SPRINGSTEAD AND ASSOCIATES, INC

Consulting Engineers Planners Surveyors

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P O BOX 448  
LEESBURG FLA 32749 0448  
(904) 787 1414



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November 9 1984

Mr E G Snipes P E  
Water Engineering Section  
State of Florida  
Department of Environmental Regulation  
7001 U S Highway 301 North  
Tampa Florida 33610-9544

D. E. P

NOV 13 1984

SOUTH LEE DISTRICT  
MFL

Re Sumter County Board of County Commissioners  
Sumter County Landfill  
C 103

Dear Mr Snipes

*d*

We are in receipt of your letter dated Thursday August 23 1984 regarding the referenced application and have the following comments

1 The original exploration drillings suggests the underlying clay layer to be discontinuous and an uneffective confining layer above the Floridan aquifer. Additional drillings were taken to provide a better understanding of the nature and extent of this clay strata. Additional boring holes 6 and 7 (See attached figures) at the western boundary of the site revealed the clay layer to be continuous and at least ten (10) feet in thickness. Thus this clay layer does provide an effective boundary above the Floridan aquifer.

There are three (3) wells (No 3 4 & 5) located North of the landfill site (See Figure 21 of the Monitoring Plan) that will be initially sampled at six month intervals to assure no horizontal movement of landfill groundwater discharge. If these sampled wells do not detect groundwater contamination originating from the landfill site over a one (1) year period the sampling interval will increase from six (6) months to one (1) year. Only the detection of groundwater contamination by these wells will shorten this sampling interval. Pertinent information regarding these wells such as well size depth and driller's logs was almost nonexistent due to ownership change of the respective property or unkept records.

2 The maximum depth of existing and proposed landfill cells is six (6) to ten (10) feet below the existing grade depending upon the slope of the respective area.

November 9 1984  
Mr E G Snipes P E  
C-103

Page 2

3 Monitoring wells located on the site will be sampled on a quarterly basis for the following parameters

pH (Field Measurement)  
Total Organic Carbon  
Sulphide  
Chloride  
Nitrate


Specific Conductivity (Field Measurement)  
Total Organic Halide  
Iron  
Sulfate

Sulfates nitrates and chlorides will be the chief indicators of pollution movement within the water table and aquifer since these ions are not readily absorbed by sand and clay material

Should you have any questions please contact our office

Very truly yours

SPRINGSTEAD AND ASSOCIATES INC



John W Springstead P E



Ronald D Barlow Engineer

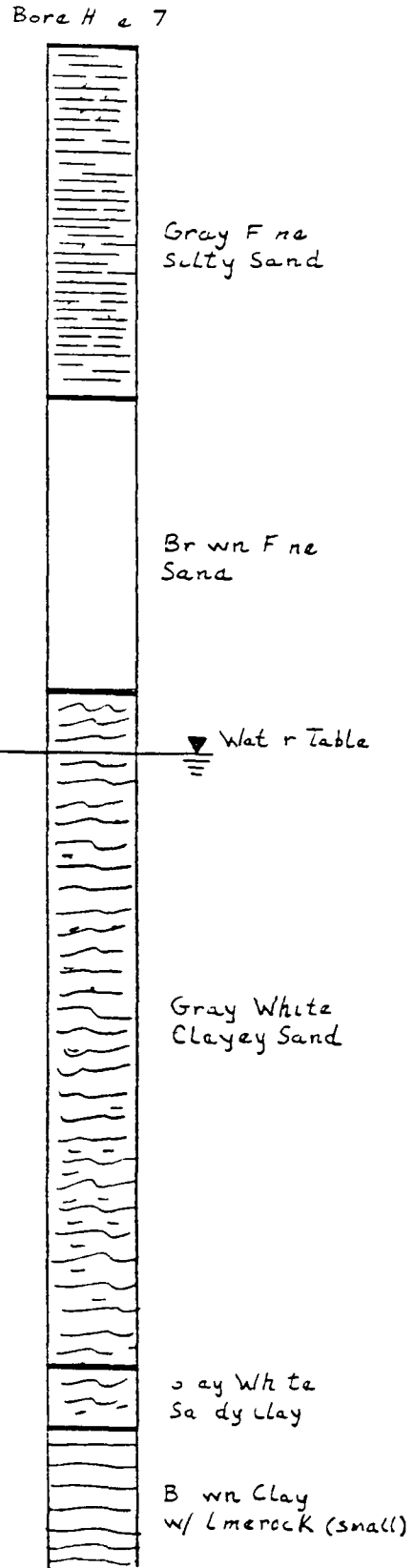
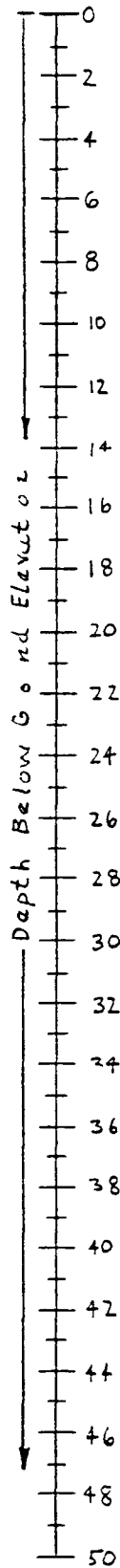
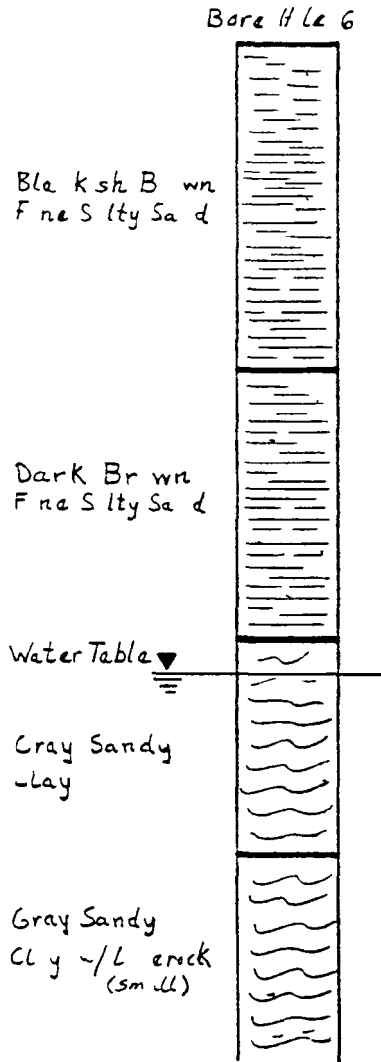
JWS RDB vq

Encl

cc Garry Breeden

(C103L WORDS2)

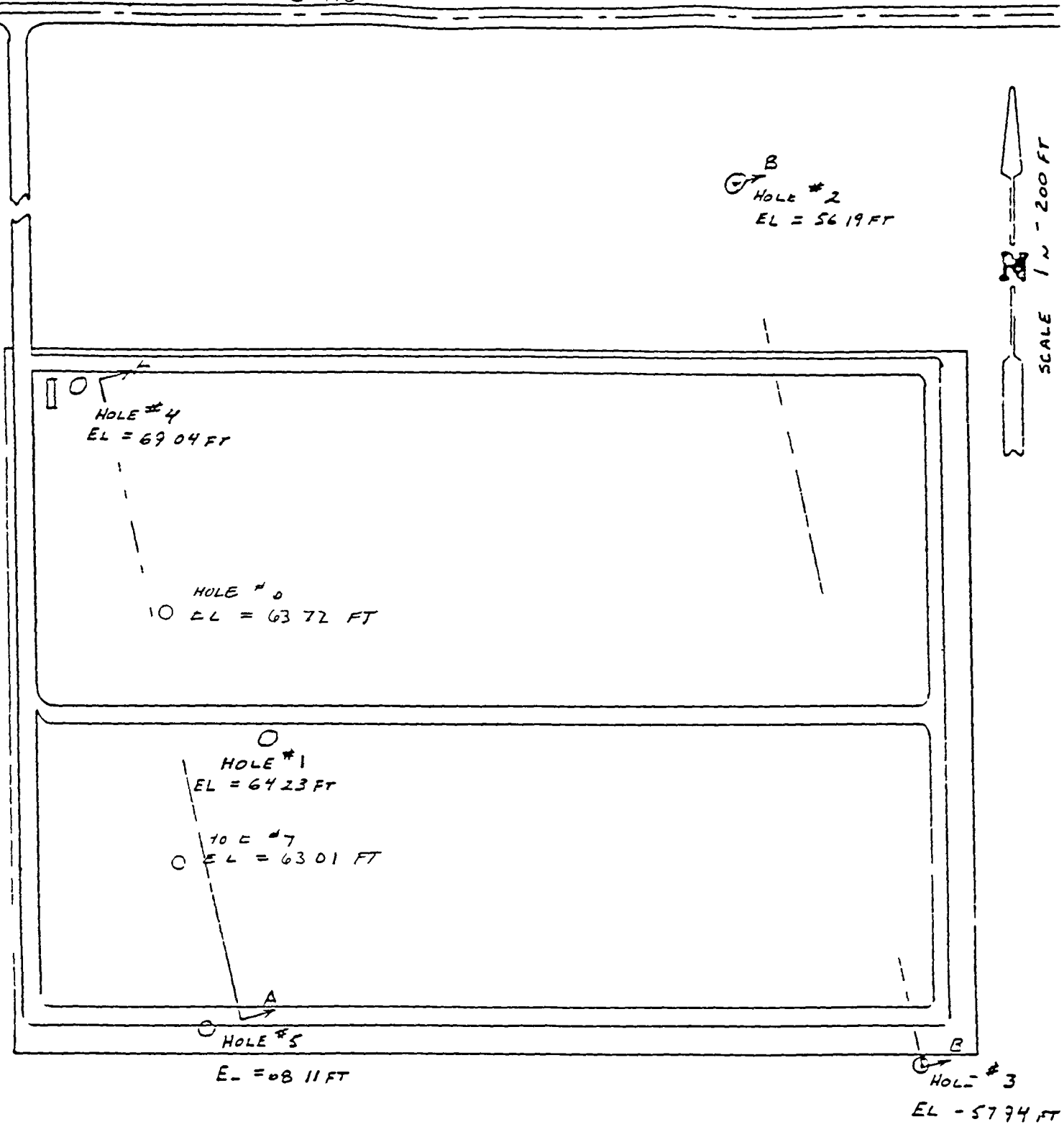
ADDITIONAL EXPLORATORY BORINGS



D. E. R.

NOV 13 1934

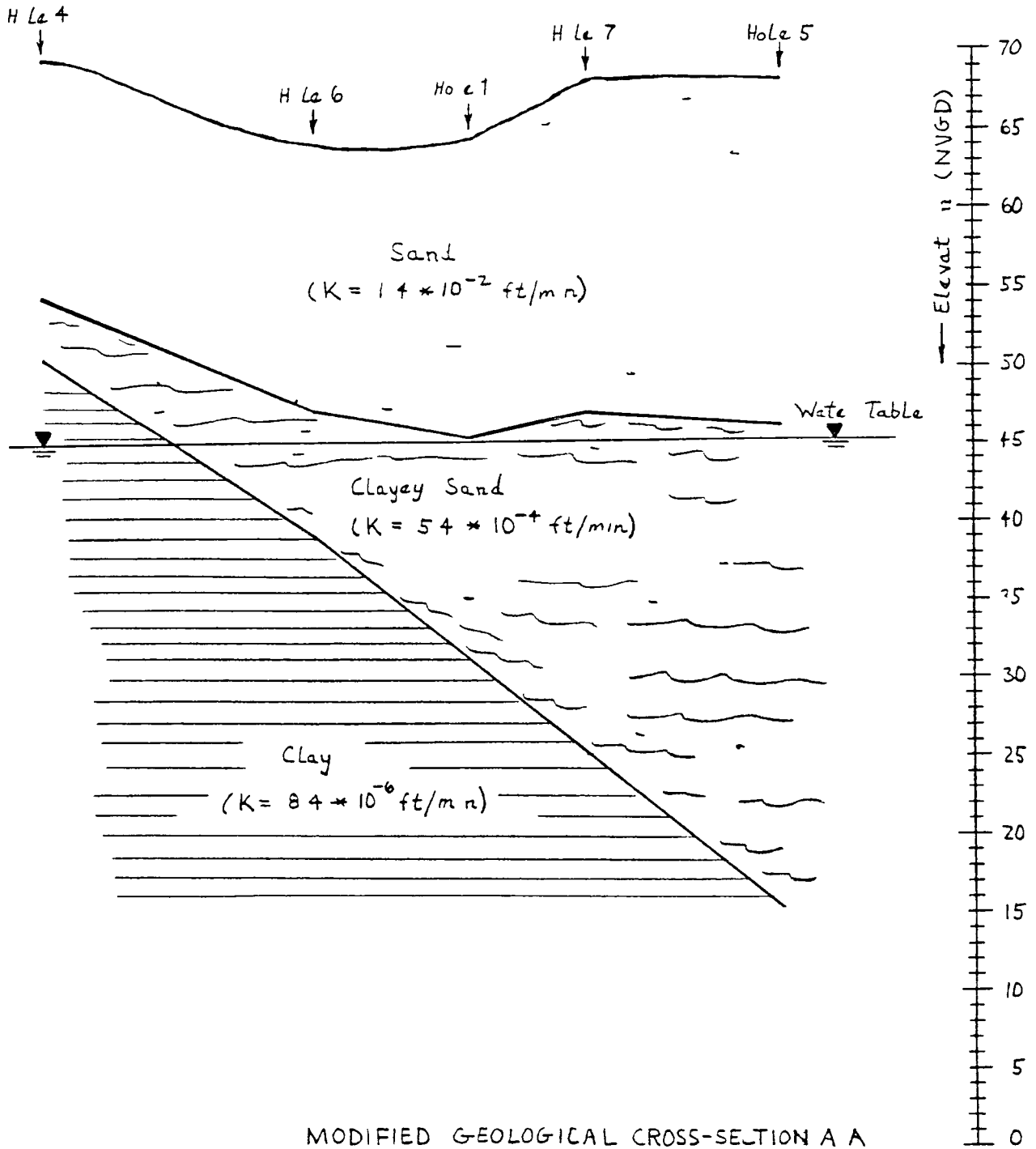
SOUTH WEST DISTRICT  
T. A.



SUMTER COUNTY LANDFILL

EXPLORATORY TEST BORINGS

(BOREHOLE LOCATION AND ELEVATION)



MODIFIED GEOLOGICAL CROSS-SECTION A A

Horizontal Scale 1" = 200'