

HYDROGEOLOGICAL REPORT

ENGINEERING PLAN AND OPERATION MANUAL

**CLOSURE/POST CLOSURE
PLAN**

**QUALITY CONTROL/QUALITY ASSURANCE
PLAN**

**GROUND WATER MONITORING
PLAN**

Frank Road Class III/IV Demolition Landfill
Collierville, Tennessee



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Attention: Mr. Norman Brown, III

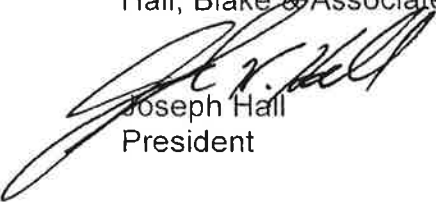
Reference: Frank Road Class III/IV Demolition Landfill, Area C
As Described in Original Permit

Gentlemen:

Enclosed is the Report of Hydrogeological Site Investigation, Engineering Plan and Operation Manual, Closure/Post Closure Plan, Quality Control/Quality Assurance Plan, and Ground water Monitoring Plan for the delineation and verification of the referenced site located at 10636 Shelton Road, Collierville, Shelby County, Tennessee.

We are pleased to submit this plan on behalf of Mr. Norman Brown, III. If questions arise, please notify us at your convenience.

Respectfully Submitted,
Hall, Blake & Associates, Inc.



Joseph Hall
President

INTRODUCTION

This is a Class III/IV Demolition Landfill which has been in operation since 1976. The site lends itself to description based upon an east-west line which lies along what would be an extension of Shelton Road. That is, Shelton Road is discontinued at this site. It begins near the east boundary of the property at a point near the center in the north-south direction and proceeds east. If the centerline of Shelton Road was extended westward, it would bisect the property into what will be referred to as the north and south parts.

The total amount of the property is 312 acres. Originally, the entire site was permitted for a landfill to accept construction debris. The filling was begun in the area where the mining operation had left a depressed area. That is, as the mining operation moved across the site, the spoil and construction debris was placed in the areas (pits) which had been last "mined out". Thus, where the final cells were "mined out", there was no further spoil to move, and large depressed areas remained. In the 70's and 80's, the spoil and construction debris was placed over various parts of the site, partially filling it.

In 1991, the jurisdiction for permitting and monitoring landfills changed from Shelby County to the State. Prior to the change in jurisdiction, each year the County requested a map showing where the owner planned to fill that year. At that time, a plan was developed upon which the proposed areas for filling were sketched. The area on the north side was designated Area C. A plan was developed for filling the area. It called for a cell to be constructed along the eastern part of Area C. It was the owners stated plan to raise the fill along the eastern side to an elevation of 337 feet MSL. At that point, it was intended to move back to the south side to fill in more areas previously identified. The reason for

this was the sand stockpiled along the western part of the site. It was the owners intention to return to the north part and continue the filling operation after the sand had been sold. It was intended to fill the remaining area to the intermediate elevation (337 feet) of the east side of Area C, and then to place the final lift across the entire area. Area C would then be closed at a maximum elevation of 368 feet.

During the filling of the eastern part of Area C, the regulations were changed. The owner now proposes to complete the remainder of Area C and close the entire area as required to bring the westward expansion into compliance with the latest regulations. A hydrogeologic study was made and plans and specifications developed to meet the new regulations. The results are enclosed, along with a response to the numbered items in the regulations in Section (9)(C) of Rule 1200-1-7-.04, "Specific Requirements for Class I, II, III and IV Disposal Facilities", a plan for closure/post closure and a plan for quality assurance for construction of liner and cover has been developed.

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