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State of New Jersey  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
DIVISION OF WASTE MANAGEMENT

MARWAN M. SADAT, P.E.  
DIRECTOR

HAZARDOUS SITE MITIGATION ADMINISTRATION  
CN 028, Trenton, N.J. 08625

JORGE H. BERKOWITZ, PH.D.  
ADMINISTRATOR

Lawler, Matuskey & Skelly Engineers  
One Blue Hill Plaza  
Pearl River, NY 10965

09 APR 1988

RE: Combe Fill South Landfill

Attention: Ms. Ruth M. Maikish

Gentlemen:

Representatives of the New Jersey Department of Environmental Protection and U. S. Environmental Protection Agency have reviewed your candidate remedial actions for the Combe Fill South Landfill site and have selected the series of action components that you listed as No Action, those capable of Attaining Applicable and Remedial Requirements, portions of Exceeds Requirements and Achieves some Applicable Requirements. You are hereby directed to proceed with your investigation and detailed costing of these actions. Please describe and evaluate the components in such a manner that each can be individually weighted, replaced or modified during the final review.

The selected remedial actions to be detailed are:

Alternative or  
Technical Option

Remedial  
Actions included

- |                                   |   |
|-----------------------------------|---|
| 1. No action                      | Security fence, gate and warning signs, groundwater monitoring  |
| 2. Off-site disposal<br>(a) & (b) | (Provide discussion and figures indicating these alternatives are not feasible.)  |
| 3. Cap, trench and treat (a)      | Include: <ul style="list-style-type: none"><li>. fill and grade site</li><li>. Cap (no membrane)</li><li>. Leachate collection trench</li><li>. Leachate treatment and discharge to Trout Brook</li><li>. Surface water control</li><li>. Passive collection of gases and discharge</li><li>. Security fencing, gate and warning signs</li><li>. RCRA monitoring</li><li>. Alternate water supply (1)</li></ul> |

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Cap, & deep pumping & treatment (b) . 3(a) above with addition of deep pumping of groundwater in (1) flow path #6 which impacts School House Lane . *without, per 5/8 memo < D2F*

Cap with membrane, pumping wells & Treatment (c) . 3(b), plus cap (with membrane) and the addition of shallow pumping wells for leachate collection

4. Exceeds Requirements

- . Fill and grade site
- . Cap (with membrane) → *to multiple-layer w/ membrane*
- . Upgradient barrier
- . Leachate collection trench
- . Deep pumping wells in all groundwater paths around site *1 down to 1.0*
- . Surface water controls *discuss in memo*
- . Active gas collection and treatment
- . Security fence, gate and signs
- . RCRA monitoring
- . Alternate water supply (1)
- . *Construct it w/ discharge to Black R. (as per Task 3)*

→ *Same, but not all reqts.*

5. Cap, circumferential barrier, short-term pump & Treatment of flow-path path #6

- . Fill and grade site
- . Cap (no membrane)
- . Temporary pump, treat with air stripping tower groundwater in flow path #6
- . Discharge to the unnamed tributary
- . Circumferential barrier
- . Surface control
- . Passive gas collection and discharge
- . Security fence, gate and signs
- . RCRA monitoring
- . Alternate water supply (1)

*Proposed by first task with on site proposal.*

Clayless Cap (b) . Same as 5a except cap does not have clay layer.

Cap only (c) . Delete

(1) Provide alternate water system for areas that have contaminated wells and those with serious potential for contamination. The preferred alternative water supply is the extension of the Washington Township Municipal Line up Parker Road to a point 500 feet beyond intersection with Schoolhouse Lane and along Schoolhouse Lane to its full extent, the additional pumping equipment with ancillaries and any modifications imposed by the additional service.

Your discussions should include all assumptions and full descriptions of the actions. Included in your submission a table showing the cost of each individual action and a second table that compares the various versions of caps that you suggest.

The alternate water supply is a very important action for this project and a permanent solution to the water supply problem, such as the extension of the Washington Township municipal line should be included in all remediations.

If you have any questions please contact the undersigned.

Very truly yours,



Edgar G. Kaup, P.E.  
Site Manager  
Bureau of Site Management

HS102:jb

C.

R. Predale, Chief BSM

~~R. Stoddard, USEPA2,~~

D. Kindig, BSM

R. Myers, BEERA

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THOMAS L. ENGLETT, P.E.

12 March 1986  
File No. 455-103

VIA FEDERAL EXPRESS

Mr. Edgar Kaup  
NJ Department of Environmental Protection  
Division of Waste Management  
Hazardous Site Mitigation Administration  
428 East State Street  
Trenton, New Jersey 08608

Re: Preliminary Analysis of Alternatives  
Combe Fill South Landfill RI/FS

Dear Mr. Kaup:

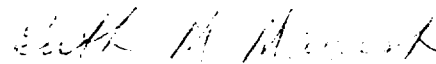
Enclosed for your review is the second memorandum issued in fulfillment of our Task 3 work scope for the Combe Fill South landfill RI/FS. This second memorandum describes the preliminary development and evaluation of alternatives.

In our meeting scheduled for Thursday, 20 March 1986 at 2:00 p.m. in your offices we will review this memorandum. The objective of the meeting will be to select and formulate the final alternatives for detailed analysis in Task 5, based on the preliminary work in Task 3. We look forward to a productive meeting.

I have enclosed four copies of the memorandum for you and your support staff at the NJDEP. I have directly sent Mr. Kirk Stoddard of the USEPA two copies.

If you have any questions, please call.

Very truly yours,



Ruth M. Maikish  
Senior Project Manager

RMM:gmk

copies: E. Kaup, NJDEP - 4  
K. Stoddard, USEPA Region II - 2 ✓  
C. Boyer, REWAI - 1

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21 February 1986  
File No. 455-102

Mr. Edgar Kaup  
NJ Department of Environmental Protection  
Division of Waste Management  
Hazardous Site Mitigation Administration  
428 East State Street  
Trenton, New Jersey 08608

Re: Preliminary Report - Remedial Investigation (Task 2)  
Combe Fill South Landfill RI/FS

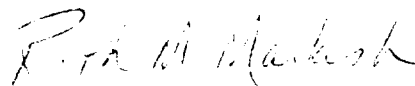
Dear Mr. Kaup:

We are hereby transmitting to you fourteen (14) copies of the above referenced report and its appendices in fulfillment of our Task 2 contract requirements for the Combe Fill South landfill study. As you requested, I am sending two (2) copies of this report and its appendices to Mr. Kirk Stoddard of the USEPA Region II Office.

This preliminary report covering the remedial investigation phase of work at the Combe Fill South site will be finalized and incorporated into the Final Report when the feasibility study phase of work is completed. At that time, an executive summary will be prepared that will encompass the findings of the remedial and feasibility study phases.

If you have any questions, please call.

Very truly yours,



Ruth M. Maikish  
Senior Project Manager

RMM:gmk

copy: K. Stoddard, USEPA Region II

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