

Environmental Engineering
and Pollution Control/3M

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SCANNED

September 2, 1982

3M
Pollution Prevention
Environmental Engineering
Research and Development

3M

Pollution Exp. ~~Field~~ ^{Refined} ~~Field~~ ^{E. Hix}
3M

Certified Mail

Mr. James Ullery
Waste Identification
and Evaluation Section
South Carolina Department
of Health and Environmental Control
2600 Bull Street
Columbia, SC 29201

Technical Ceramic Prod. D.
P. O. Box ~~88~~ 89
Laurens, SC 29360

Billy DuPre's
Copy

Dear Mr. Ullery:

This letter is to inform you of 3M's plan to clean out a settling pond located at our Laurens, South Carolina, facility. This pond is used for settling out ceramic fines prior to discharging the process wastewater to the city sewer system.

These solids are generated when fired ceramic parts are ground and polished to customer specifications. The ceramic formulations may vary but generally consist of talc, barium titanate and carbonate, aluminum oxides, clay, and inorganic fillers.

Because we do use barium, EPA leachate tests have been conducted to see if this material could be disposed of at 3M's on-site permitted landfill (Permit #IWPL23). Tests were conducted by two laboratories and as the results in Table 1 show, the material is not hazardous by EPA or South Carolina criteria. This is consistent with other leachate tests we have performed, which show that the fired ceramic material does not leach barium.

3M therefore proposes to clean out the pond and landfill the material on-site using the following plan:

I. General Description

The settling ponds consist of two ponds in series with the discharge going to the city sewer system. Discharge to the sewer can be from either pond. The landfill to be used is located as shown on the attached drawing.

pond is cleaned
out as needed -
maybe as long
as 10 years
before cleaning
out.

(A19)

Mr. James Ullery
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II. Pond Cleaning

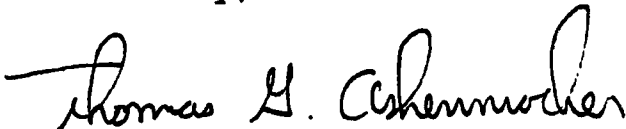
The pond to be cleaned will be bypassed and the remaining water will be pumped off into the other pond. The solids will then be allowed to dry for two to three weeks. This should raise the solids content to the point where there is little free liquid remaining in the solids. A dragline will then be used to clean out the solids. Dump trucks with sealed end gates will be used for hauling the material to 3M's on-site landfill. It is estimated that 500 cubic yards of material will be landfilled.

III. Landfill Operation

As the solids are landfilled, they will be covered with a final cover consisting of two (2) feet of compacted soil which will be seeded. Records will be kept on the amount of material landfilled and its location.

We would like to complete this project as soon as possible. Therefore, your prompt consideration of this plan would be appreciated. Please contact me at (612)778-6129 should you have any questions.

Sincerely,



Thomas G. Ashenmacher
Environmental Engineer

TGA/mk

cc: Billy Dupre
South Carolina Department
of Health and Environmental Control
P. O. Box P129
Greenwood, South Carolina 29646

Table 1

Laurens Pond Solids - Leachate Results

<u>Laboratory</u>	<u>Parameter</u>	<u>Result(mg/l)</u>
Barium	3M Envir. Lab.	17 100
Barium	Rogers & Callcott*	25 100
Cadmium	3M Envir. Lab.	<0.01 1.0
Cadmium	Rogers & Callcott*	<0.005 1.0
Chromium	3M Envir. Lab.	<0.01 5.0
Lead	3M Envir. Lab.	0.08 5.0

* J. L. Rogers & Callcott Engineers, Inc.
718 Lowndess Hill Road
Greenville, South Carolina 29607

S.C. HWY. 14

