



TWO FINANCIAL CENTRE 10825 FINANCIAL PKWY SUITE 400 LITTLE ROCK, ARKANSAS 72211 (501) 221-1419 FAX #(501) 221-0416

Robert W. Flournoy, Ph.D. President/CEO

September 2, 1987

Mr. Mark Witherspoon Chief, Solid Waste Division 8001 National Drive Little Rock, Arkansas

Dear Mr. Witherspoon:

CSN: 72 DI 44 Permit No. 12 3SP -/
Media: Air, Water Solid Hazardous
Sort: Permit, Compliance, Land, Llisc.

41924

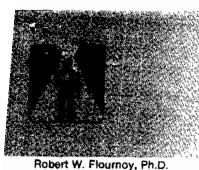
Attached are the inorganic results analyzed from the monitor wells at the Sunray sites. The protocol for sampling was outlined in my letter to you dated 8/4/87. An addendum to that letter are the following points:

- 1) A sample of Springdale city water was obtained and analyzed.
- 2) Alconox soap was added to the rinse water in between monitor wells.
- 3) The pump and hose were rinsed with deionized water for each rinsing.

Points number two (2) and three (3) were carried out at the request of Geraghty and Miller.

Elevated concentrations of specific conductance and total hardness were detected at monitor well number three (3). An excessive amount of grout was introduced into the annulus of this boring before it reached grade. It is suspected that some of this grout seeped into surrounding fractures and migrated into the water table. This could be the reasoning behind the elevated concentrations detected at this well. Two samples were obtained on 8-9 and 8-10 and we observed a decrease in concentration levels at this well.

SEP 0 4 1987



President/CEO



TWO FINANCIAL CENTRE 10825 FINANCIAL PKWY. SUITE 400 LITTLE ROCK, ARKANSAS 72211 (501) 221-1419 FAX #(501) 221-0416

Mr. Mark Witherspoon September 2, 1987 Page Two

I recommend that this well and wells (MW-1, MW-5, MW-4, MW-7, MW-8) be sampled on a quarterly basis for two years. Then the wells should be sampled semi-annually for the next three (3) years. I believe we should see a decrease in the concentration levels at monitor well three (3) over time. An additional sample will be obtained from this well on 9-3 or 9-4-87. I will send the results to you as soon as I get them.

It is further recommended that the wells be tested for the following parameters:

- 1) pH
- 2) Total Dissolved Solids
- Chloride
- 4) Specific Conductance
- 5) Chemical Oxygen Demand
- Iron
- Manganese

Please contact me at 221-1419 if you have any questions.

Sincerely.

Ray A. Quick, M.S. Hydrogeologist

RAQ:s tw

cc: Mr. Miller Mathews

Mr. Jack Butt

Dr. Les Muck

Dr. Robert Flournoy