

ENVIRONMENTAL MANAGEMENT, INC.

9/13/87
TWO FINANCIAL CENTRE
10825 FINANCIAL PKWY
SUITE 400
LITTLE ROCK, ARKANSAS 72211
(501) 221-1419
FAX #(501) 221-0418

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

September 2, 1987

CSN: 720144 Permit No. 123SE-1
Media: Air, Water, Solid Hazardous
Sort: Permit, Compliance, Legal, Misc.

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

41924

Dear Mr. Witherspoon:

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 04 1987

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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
- 3) Chloride
- 4) Specific Conductance
- 5) Chemical Oxygen Demand
- 6) Iron
- 7) Manganese

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

Sincerely,



Ray A. Quick, M.S.
Hydrogeologist

RAQ:sjw

cc: Mr. Miller Mathews
Mr. Jack Butt
Dr. Les Muck
Dr. Robert Flournoy