

ENTERED

Plateau
GROUND WATER

PLATEAU, INC.

P.O. BOX 26251
ALBUQUERQUE, N.M. 87125-6251
PHONE 505/262-2221

June 15, 1984



Mr. Will Focht
Environmental Engineer
U.S. EPA, Region VI
Dallas, Texas 75270

Dear Will:

Please find attached the information you requested during our June 13, 1984 meeting.

If you have further questions, feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Dwight J. Stockham".

Dwight J. Stockham
Assoc. Environmental Engineer

DJS/rde

Enclosure

cc: B. G. Dixon
B. S. Garber



PLATEAU GROUND WATER SAMPLE RESULTS

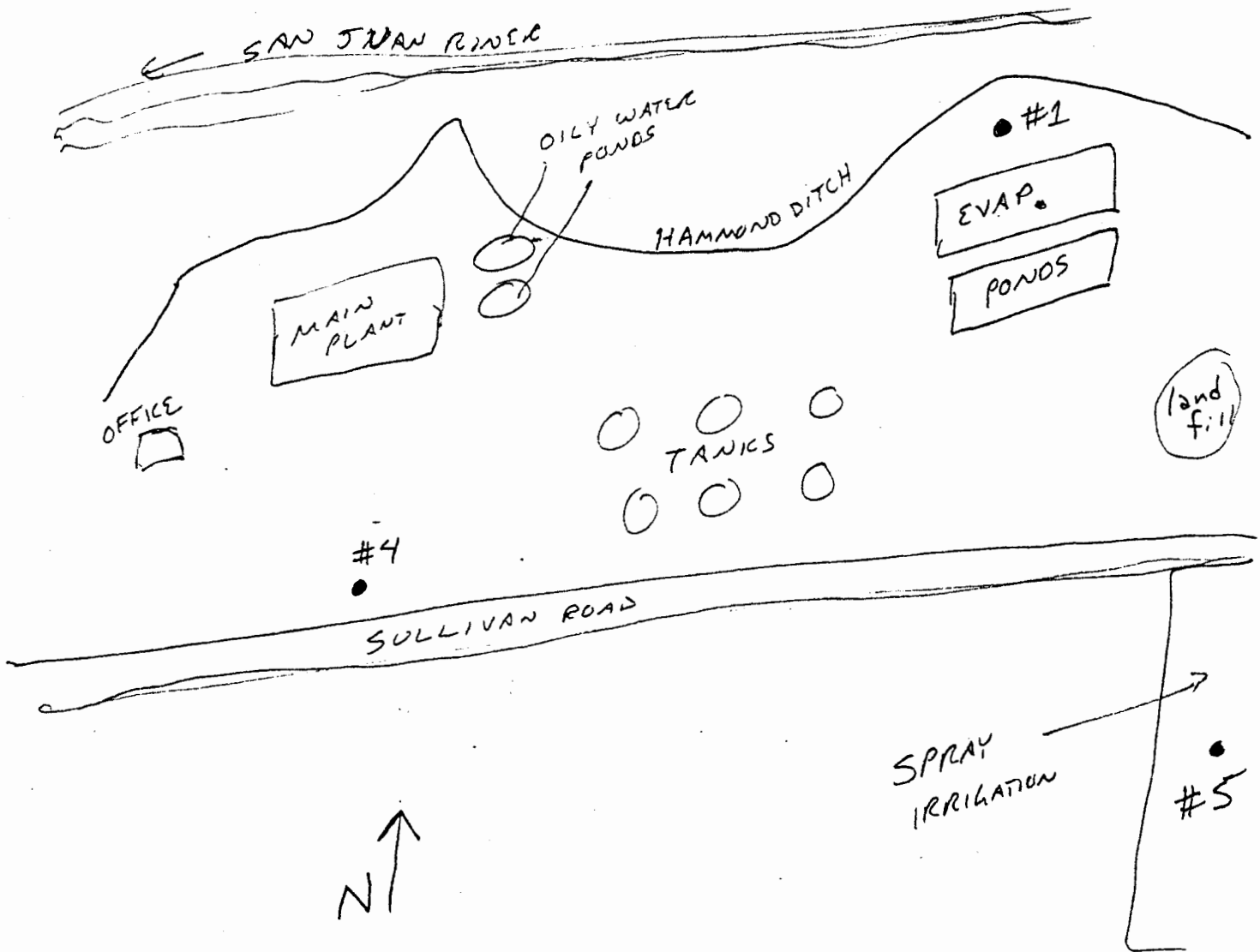
Results are preliminary. Full report to be out by next Wednesday (5/16/84).

Only wells 1, 4 and 5 were sampled. The "upgradient" well was dry; the other two wells did not register anything when "sniffed".

Results are shown only for those constituents which were detected.

"Priority pollutants" means the 129 volatile and semi-volatile organics on EPA's priority pollutant list.

All other organics shown are not on the priority pollutant list (but may be on the hazardous waste constituent list).



RESULTS OF PLATEAU SAMPLING

Transmitted over the phone by Will Focht to Ann Claassen, 8 May 1984

CAVEAT: This is very raw data. QA/QC is not complete. This data is to be taken only as an indication of what was there; not as the absolute chemical values.

WELL #4 Near Sullivan Road, south of main plant (right next to FIT van)

<u>Parameter</u>	<u>ug/l</u>	<u>detec. limit</u>
Priority Pollutants:		
naphthalene	200	(20)
2-methyl naphthalene	70	(40)
Base Neutral Extract:		
methyl benzene	120	
octane	75	
ethyl benzene	120	
1,3-dimethyl benzene	720/220*	
nonane	220	
propylcyclohexane	100	
1-chlorotetradecane	78/180*	
2,4-dimethyl-2,3-heptadiene-5-yne	180/220/570/120*	
1-eicosanol	99	
decanal	340	
5-butyl nonane (unknown hydrocarbon**)	69	
2-ethyl-1,4-dimethyl benzene	120	
undecane (hydrocarbon**)	380	
dodecane (hydrocarbon**)	150	
Volatiles:		
benzene	9,000	(5000)
Ortho-xylene	10,000	(5000)
2-methyl butane	14,000	
pentane	12,000	
cyclohexane	18,000	
methylcyclohexane	23,000	
methylcyclopentane	71,000	
3,7-dimethyl-1-octanol	18,000	
1-ethyl-3-methyl-trans-cyclopentane	31,000	
1,3-dimethyl-cis-cyclohexane	20,000	
octane	45,000	
1,2-dimethyl benzene	98,000	

* Repeat analyses

** Handwritten note on the data sheet; meaning not always clear

WELL #4 (continued)

<u>Parameter</u>	<u>ug/l</u>	<u>detec. limit</u>
Acid-Base Neutral Extract:		
1,3,5-cycloheptatriene (toluene**)	110	
2-methyl octane (hydrocarbon**)	92	
1,3-dimethyl benzene	610	
3-methyl-1-phenyl-2-butanone	340	
2,6-dimethyl octane (hydrocarbons**)	140	
2-methyl nonane	170	
2,4-dimethyl-2,3-heptadiene-5-yne	270/250*	
1,3,5-trimethyl benzene	150	
1-ethyl-2-methyl benzene	130	
decane (hydrocarbon**)	280	
1,2,4-trimethyl benzene	150	
butylcyclohexane	86	
diethyl benzene	240	
1-methyl-3-propyl benzene	150	
undecane (hydrocarbon**)	420	
diethylmethyl benzene	88	
dodecane (hydrocarbon**)	160	
2,5-dimethyl benzoic acid	200	
2,6-dimethyl benzoic acid	120	
Inorganics:		
Aluminum	31,800	
Arsenic	18	
Barium	18,000	
Cadmium	3	
Chromium	40	
Copper	50	
Iron	57,700	
Lead	42	
Manganese	7,620	
Mercury	0.4	(0.2)
Zinc	180	

Not detected: Antimony, Beryllium, Cobalt, Nickel, Selenium, Silver, Thallium, Tin, Vanadium

Not Reported: Magnesium, Calcium, Cyanide, Potassium, Sodium, Percent Solids

* Repeat analyses

** Handwritten note on data sheet; meaning not always clear.

WELL #5 Spray Irrigation Area

<u>Parameter</u>	<u>ug/l</u>	<u>detec. limit</u>
Priority Pollutants:		
total xylenes	6	(5)
Volatiles:		
2-methyl butane	9.8	
cyclohexane	14	
methylcyclopentane	6.3	
methylcyclohexane	6.9	
ethyl benzene	31	
Inorganics:		
Aluminum	76,000	
Barium	300	
Chromium	40	
Copper	100	
Iron	70,600	
Lead	20	
Manganese	915	
Nickel	40	
Selenium	2	
Zinc	120	

Not Detected: Antimony, Arsenic, Beryllium, Cadmium, Cobalt, Mercury, Silver, Thallium, Vanadium

Not Reported: same as Well #4

WELL #1 North of Evaporation Pond

Organics (didnt get which extract)		
2-methyl-2-propanol	12	
INORGANICS:		
Aluminum	11,600	
Barium	200	
Cadmium	3	
Chromium	10	
Cobalt	100	
Iron	20,900	
Manganese	1,380	
Nickel	80	
Selenium	3	
Zinc	60	

Not Detected: Antimony, Arsenic, Beryllium, Copper, Lead, Mercury, Silver, Thallium, Vanadium

Not Reported: Same as well #4.

(SELECTED SITES)

BY PHOENIX, STEVE SCHWARTZ TO A. CLAASSEN 5/10/11

The only results in as yet are the Characteristic tests (no organics or total metals yet). I show only results for Barium under EP-Toxicity. All other EP-Tox constituents were not detectable in any of the sample leachates.

<u>Sample Site</u>	<u>pH</u>	<u>CN⁻</u> mg/kg	<u>S⁼</u> mg/kg	<u>EP-Toxicity</u> Ba mg/l
SW Corner, N. evap. pond (sludge)	7.9	<0.2	65.7	1.23
SE Corner, N. evap. pond (sludge)	7.1	<0.2	362*	1.57
SE				
W. end, S. evap. pond (sludge)	7.9	<0.2	<10	0.991
Middle of S. bank, S. evap pond (soil)	7.9	1.3	285*	1.18
85' E. of NW corner, Spray Irrig. Area (soil)	N/A	1.13	<10	0.584
125' W. of NE corner, Spray Irrig (soil)	N/A	<0.2	<10	1.16
W. end, landfill, (soil, 2'-4')	N/A	<0.2	<10	0.967
E. end, landfill, (soil, 1'-3')	N/A	0.94	<10	1.42
Sump E. of evap ponds (soil)	N/A	interference	235*	0.797

* These may qualify as Reactive (and thus hazardous) wastes. EPA's guideline is that sulfides greater than 200 mg/kg are likely to be reactive.