

GERAGHTY & MILLER, INC.
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Rochelle Park, NJ 07662
Main Number (201-909-0700)
Telecopier Numbers (201-909-0567 & 0568)

TO: Caroline Kwan
FAX#: (212) 262-6192
FROM: Thomas Danahy
DATE: November 2, 1992
PROJECT # PR013.01 - Tutu, St. Thomas

DOCUMENT CONSISTS OF 6 PAGE(S) (INCLUDING THIS PAGE). (If you do not receive all the pages indicated, please call our operator at 201-909-0700).

DESCRIPTION: Revised Schedule - Pump Tests

MEMO/COMMENTS: We re-arranged scheduling due to political rally at Four Winds Plaza on Tuesday, November 2nd.

- 24-hour Test @ MW-6, First Monday
- Recovery, Tuesday, November 2nd
- Wednesday, November 3, Step Test MW-6D
- Thursday - Sunday, 72-hour Test @ MW-6D

SENT BY: Carla
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Ground Water

Engineering

Hydrocarbon

Remediation

Education

October 30, 1992

Leonard Reed
Department of Planning and Natural Resources
45A Estate Nisky, Suite 231
St. Thomas, U.S. Virgin Islands 00802

Re: Tutu Aquifer Pumping Tests
St. Thomas, U.S. Virgin Islands

Dear Mr. Reed:

As a result of recent water-level monitoring in the Tutu area, Geraghty & Miller, Inc. has determined the Eglin supply wells are in operation. In order for Geraghty & Miller to perform the aquifer pumping tests, the Eglin supply wells will have to be shut off during the test period (see attached schedule). Geraghty & Miller is requesting the assistance of the Department of Planning and Natural Resources to contact the Eglin well owners regarding this subject.

In addition, Geraghty & Miller is requesting the Eglin well owners to fill their cistern on the morning of Sunday, November 1, 1992, prior to the aquifer testing. If necessary, the Tutu Environmental Investigation Committee (TEIC) will provide a water distributor to fill their cistern during the aquifer testing period.

If you have any questions, please call.

Sincerely,

GERAGHTY & MILLER, INC.

Clinton Moffatt
Clinton Moffatt
Staff Scientist

Thomas V. Danahy
Thomas V. Danahy
Senior Scientist/Project Manager

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cc: Ana Gloria Ramos - TEIC
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11.02.92 10:51 AM *G&M - ROCHELLE PARK P02

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
Fri., Oct. 30, 1992 C. Moffatt R. Ponciano A. Colberg W. Morales Soil Tech	7:30-8:30 a.m. - Collect water-level measurements. 8:30-9:30 a.m. - Re-set data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 30 second intervals. 10:00 a.m. (or a few seconds after 10:00 a.m. but not before) - Start Step Test at MW-6; Step 0 at 2 gpm. Note steps are numbered 0 through 3 (4 steps). 11:00 a.m. - Begin Step 1 at MW-6 at 4 gpm. 12:00 (noon) - Begin Step 2 at MW-6 at 6 gpm. 13:00 - Begin Step 3 at MW-6 at 8 gpm. <u>Sample influent to treatment system for field GC and lab analysis.</u> 14:00 - End of Step Test. Set pump rate to 2 to 8 gpm (depending on drawdown) for Monday's test. Turn pump off. Record recovery. <u>Sample treatment effluent for field GC and lab analysis.</u> 15:00 - End of recovery data collection. Remove/download data recorders. Collect water-level measurements. 16:00-17:00 - Reset data recorders; linear scale, 30 minute intervals for pre-pumping measurements over Saturday and Sunday.
Mon., Nov. 2, 1992 C. Moffatt R. Ponciano D. McGregor A. Colberg W. Morales Soil Tech	7:30-8:30 - Collect water levels. 8:30-9:30 - Reset data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 30 second intervals.

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
	10:00 - Start 24-hour continuous rate pumping test at MW-6. Pump rate should have been preset on Friday (between 2 to 8 gpm). 11:30 - <u>Sample influent to treatment system for field GC and lab analysis.</u> 12:00 (noon) - Sample effluent for field GC and lab analysis. <u>Continue to collect influent and effluent every 2 hours for field GC analysis.</u> Measure <u>complete</u> round of water-levels (including data recorders with drop pipes and non-data recorder locations) on an hourly basis until 14 hours (12:00 midnight) into pump test. After 14 hours measure complete rounds every 2 hours.
Tues., Nov. 3, 1992 C. Moffatt R. Ponciano D. McGregor (Soil Tech not onsite)	9:00 - <u>Sample influent and effluent for field GC and lab analysis.</u> 10:00 - End of 24-hour test. If possible "step" recorder to record recovery. Stop pump and record recovery. 14:00 - Check recovery. If recovery is equal to or greater than 85 percent complete, remove data recorders. Collect full round of water-level measurements.
Wed., Nov. 4, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	7:30-8:30 a.m. - Collect water-level measurements. 8:30-9:30 a.m. - Re-set data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 30 second intervals. 10:00 a.m. (or a few seconds after 10:00 a.m. but not before) - Start Step Test at MW-6D; Step 0 at 8 gpm. Note steps are numbered 0 through 3 (4 steps).

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
	11:00 a.m. - Begin Step 1 at MW-6D at 10 gpm.
	12:00 (noon) - Begin Step 2 at MW-6D at 12 gpm.
	13:00 - Begin Step 3 at MW-6D at 14 gpm. <u>Sample influent to treatment system for field GC and lab analysis.</u>
	14:00 - End of Step Test. Set pump rate to 8 to 14 gpm (depending on drawdown) for Monday's test. Turn pump off. Record recovery. <u>Sample treatment effluent for field GC and lab analysis.</u>
	15:00 - End of recovery data collection. Remove/download data recorders. Collect water-level measurements at data logger locations.
	16:00 - 17:00 - Collect complete round of water-levels. Reset data recorders; linear scale, 30 minute intervals for pre-pumping measurements over Saturday and Sunday.
Thurs., Nov. 5, 1992	7:30-8:30 - Collect complete round of water-levels.
C. Moffatt	8:30-9:30 - Reset data recorders for delayed start at 10:00 a.m., log cycle intervals not exceeding 5-minute intervals.
R. Ponciano	10:00 (or a few seconds after 10:00) - Start 72-hour continuous rate pumping test at MW-6D. Pump rate (between 8 to 14 gpm) should be preset based upon Friday's step test. Take manual measurements at pumping well for plotting of data.
D. McGregor	11:30 - <u>Sample influent to treatment system for field GC and lab.</u>
Soil Tech	

Table 1. Anticipated Schedule for Pumping Tests, Tutu Service Station Investigation, St. Thomas, U.S. Virgin Islands.

Date and Personnel	Action
	12:00 - <u>Sample effluent for field GC and lab.</u> <u>Continue to collect influent and effluent samples for field GC every 2 hours.</u> Measure <u>complete</u> round of water-levels (including data recorders with drop pipes and non-date recorder locations) on an hourly basis until 14 hours (12:00 midnight) into pump test. After 14 hours, measure complete rounds every 2 hours.
Fri., Nov. 6, 1992 C. Moffatt R. Ponciano A. Colberg D. McGregor Soil Tech	10:00 - Twenty-four hours into test. <u>Sample influent and effluent for field GC and lab analysis.</u> Evaluate data plotted from pumping well for delayed yield. If delayed yield is not present, stop test and record recovery. If possible, have recorder start new step just prior to turning pump off.
Sat., Nov. 7, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	10:00 - Forty-eight hours into test. <u>Sample influent and effluent for field GC and lab analysis.</u> If delayed yield is not present, stop test and record recovery.
Sun., Nov. 8, 1992 C. Moffatt R. Ponciano D. McGregor Soil Tech	10:00 - Seventy-two hours into test. <u>Sample influent and effluent for field GC and lab analysis.</u> Stop test and record recovery.

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