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HEALTH MONITORING PLAN INVESTIGATION OF SOIL AND GROUNDWATER  
CONTAMINATION AT THE EXCESS LAND OF TRUMAN ANNEX NAS KEY WEST FL  
5/1/1988  
GERAGHTY AND MILLER INC

Health Monitoring Plan

INVESTIGATION OF SOIL AND  
GROUND-WATER CONTAMINATION AT THE  
EXCESSED LAND OF TRUMAN ANNEX  
KEY WEST, FLORIDA

Prepared for

DEPARTMENT OF THE NAVY  
Southern Division  
Naval Facilities Engineering Command  
Charleston, South Carolina

Contract No. N62467-87-C-0026

G&M Project No. TF0290TA01

May 1988

Prepared by

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GERAGHTY & MILLER, INC.

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## INTRODUCTION

A Health Monitoring Plan has been written by Geraghty & Miller, Inc., (G&M) to describe the methods to evaluate the health of project managers and technical staff engaged in hazardous-waste management and ground-water contamination studies.

BACKGROUND AND HEALTH EXPERTISE

Since 1985, G&M employees have been examined annually by occupational health physicians in order to comply with the provisions of G&M's Health and Safety Plans. Employees in the Tampa office are currently examined by Nicholas C. Alexiou, M.D., M.P.H., Director of the Occupational Health Center, Department of Comprehensive Medicine at the University of South Florida Medical Center. The health monitoring plan, described below, is based on Dr. Alexiou's recommendations and experience with similar health monitoring programs for corporate executives, employees of engineering consulting firms, and employees of the State of Florida involved with the permitting of hazardous-waste treatment storage and disposal facilities.

During the course of an examination, Dr. Alexiou reviews previous health examination results, discusses employee health concerns that may have arisen during the previous year and submits a report to the G&M Health and Safety Officer. The report summarizes the confidential results of the examination and describes the overall fitness of the employee. The health examination summation reports of the employees associated with the field investigation of this project are provided in Appendix A.

BASELINE HEALTH EXAMINATIONS

G&M employees are required to be examined immediately following employment (schedule permitting) for the parameters listed in Appendix B. Although some incoming employees may have been given an exit physical examination prior to leaving a previous employer, it is the policy of G&M to reexamine new employees. X-ray examinations to be performed within six months of a previous x-ray may be waived until the next physical examination period at the request of the employee or if a current x-ray (less than six months) can be produced.

## ACCIDENTAL EXPOSURE HEALTH EXAMINATION

Health examinations are required for employees who may have been accidentally exposed to contamination via dermal, oral, or inhalation routes of exposure. The amount of evidence necessary to substantiate a reexamination is conservative and may include: (1) unanticipated illnesses (nausea, fatigue, heat stress) at the job site; (2) unusual skin irritation, i.e., rash itching, chloracne, that has occurred during or directly following work at a hazardous-waste site; (3) health monitoring results (obtained in-situ) that demonstrate high concentrations of airborne contaminants above the target level prior to an upgrade in the level of personal protection; (4) a feeling of ill health while associated with an on-site hazardous-waste investigation; or (5) a verbal request.

ANNUAL HEALTH EXAMINATION

G&M employees are required to have an annual health reexamination within 12 months of the last physical examination as described in the baseline health examination. Employees assigned to office responsibilities are not required to have an annual physical examination 12 months following their new assignment.

EMPLOYEE EXIT HEALTH EXAMINATIONS

Employees who have participated directly in hazardous-waste projects and leave G&M for employment elsewhere are required to undergo an exit physical prior to their final day of employment.

SUBCONTRACTOR, VISITOR, AND CLIENT  
HEALTH MONITORING RESPONSIBILITIES

All subcontractors (drilling crews, excavators, etc.) directly associated with hazardous-waste remediation projects are required to have a baseline physical examination within the last 12 months prior to work start. Environmental agency representatives (Federal, State, local), client representatives and site visitors who may not be directly involved with the day to day workings of the project but may be indirectly involved through site visits are encouraged to produce documentation of their health fitness and willingness to follow the provisions of the Safety Plan and Training Plan (STP). Visitors unwilling to follow the provisions of the STP and submit health documentation will be allowed access to the site at the discretion of the Site Safety and Health Supervisor.

APPENDIX A

Employee Health Examination Reports  
Jean A. Hebert  
Julie Mattick



UNIVERSITY OF SOUTH FLORIDA

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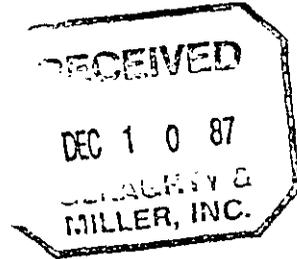
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MEDICAL CENTER  
COLLEGE OF MEDICINE  
MEDICAL CLINICS  
BOX 33  
12901 BRUCE B. DOWNS BOULEVARD  
TAMPA, FLORIDA 33612-4799

813: 974-2201

December 2, 1987

Dr. Ralph Moon  
c/o Geraghty & Miller  
P.O. Box 273630  
Tampa, Fla. 33688-3680



RE: HERBERT, Jean  
#344926

Dear Dr. Moon:

At your request, I examined Jean Hebert at the University of South Florida Medical Clinics on 11/4/87. Based on my review of her interval medical history, physical examination, laboratory studies, and exposure history I found no evidence of any work related toxic exposures. In my opinion, she is able to continue to perform the duties of her physician now and for the foreseeable future without restrictions. A copy of her medical summary is being sent to her for her information, and a copy of this report is also being sent to her for her files.

Thank you for referring this patient for evaluation.

Yours truly,

*Nicholas G. Alexiou*

Nicholas Alexiou, M.D.

NA/TSI037  
D 12/2/87  
T 12/4/87  
#1169

cc: Jean Hebert  
108 85th Ave. North  
St. Petersburg, Fla. 33702

UNIVERSITY OF SOUTH FLORIDA  
COLLEGE OF MEDICINE MEDICAL CLINIC'S  
12901 N. 30th St., Box 33  
Tampa, FL 33612  
(813) 974-2201

FOR \_\_\_\_\_ DATE 12/16/87  
ADDRESS \_\_\_\_\_

**Rx**

Individual prescriptions needed for Schedule II drugs

To Whom It May Concern  
Julie Mattick had a medical  
Examination this date

Label all drugs unless checked

REFILL 0 - 1 - 2 - 3 - 4 - 5 PRN.

SIGNATURE

Nicholas Y. Alexon M.D.

Name (print) _____
Fla. Law Requires Physician's Name, Address & DEA No. be PRINTED on all Prescriptions for Controlled Sub- stances.
Address _____
DEA No. _____ Phone _____

REV. USF 8898-09/81

APPENDIX B

Health Monitoring Parameters

APPENDIX B

1. Compilation of a complete occupational health history.
2. Compilation of a complete family health history.
3. Blood analysis (SMAC-25)
4. Urine analysis
5. PCB level in the blood
6. Chest X-ray (front only)
7. Hearing examination
8. Sight examination
9. Pulmonary function examination
10. Electrocardiogram examination
11. Complete physical examination