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19. ABSTRACT (Continue on reverse if necessary and identify by block number) This Phase II, Stage 2 Installation Restoration Program Confirmation/Quantification survey for Moody Air Force Base, Georgia investigated four sites: Site 1, Southwest Landfill; Site 2, an underground waste fuel storage area; Site 3, the flight line storm drainage outfall area; and, Site 4, the Moody AFB water supply well at the Grassy Pond annex. Sites 1 and 4 required additional investigation as a result of the Phase II, Stage 1 investigation conducted in 1985. Sites 2 and 3 were investigated for the first time during this Stage 2 effort. The scope of work consisted of conducting hydrogeologic investigations at Sites 1 and 2, and water quality sampling and analyses at Sites 1, 2, 3, and 4. Three deep (80 feet) wells and six shallow (30 feet) wells were installed around the perimeter of the Site 1 landfill. Seven temporary wellpoints, one standard penetration test boring, and four shallow monitor			
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ABSTRACT (continued)

Wells (30 feet) were installed at the Site 2 waste fuel storage area. Groundwater quality samples were collected from all of the new wells at Sites 1 and 2, from two of the existing monitor wells at the Site 1 landfill, and from Moody water supply well No. 7 near Site 1. Water level, organic vapor, and floating product thickness measurements were performed on the temporary wellpoints at Site 2. Four soil samples were collected during the standard penetration test at Site 2. Surface water samples and sediment samples were collected from five different locations which could have been affected by the Site 3 flight line storm drainage outfall. Groundwater quality samples were collected from the Site 4 water supply well No. 10.

Results of the investigations were evaluated and recommendations for site classification pursuant to USAFOEHL categories were developed:

- o Groundwater at Site 1 contains low levels of VOCs, cresol, naphthalene, and phenols. Levels of chromium and cadmium are above MCLs in some wells. Although no significant threats to human health or environmental quality appear imminent, additional monitoring is recommended (Category 2 classification).
- o Groundwater at Site 2 is contaminated with VOCs. No floating JP-4 plume appears to exist. The unsaturated zone contains significant levels of hydrocarbons which probably serve as a continual source of contamination. Because benzene (a known human carcinogen) is present, the site is recommended for Category 3 classification and remedial action alternatives are tentatively identified.
- o Sediments at Site 3 contain significant levels of petroleum hydrocarbons and lead concentrations are elevated. Surface waters do not contain significant levels of VOCs, petroleum hydrocarbons, or lead. Additional data are necessary to fully evaluate public health implications. The site is therefore recommended for Category 2 classification and additional monitoring.
- o Groundwater from the Site 4 water well No. 10 contains no VOCs. Because it remains unclear whether levels of THMs previously measured are a recurring problem, additional monitoring is recommended (Category 2 classification).

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Keywords:

The waste characteristics category is scored in three steps. First, a point rating is assigned based on an assessment of the waste quantity and the hazard (worst case) associated with the site. The level of confidence in the information is also factored into the assessment. Next, the score is multiplied by a waste persistence factor, which acts to reduce the score if the waste is not very persistent. Finally, the score is further modified by the physical state of the waste. Liquid wastes receive the maximum score, while scores for sludges and solids are reduced.

The scores for each of the three categories are then added together and normalized to a maximum possible score of 100. Then the waste management practice category is scored. Sites at which there is no containment are not reduced in score. Scores for sites with limited containment can be reduced by 5 percent. If a site is contained and well managed, its score can be reduced by 90 percent. The final site score is calculated by applying the waste management practices category factor to the sum of the scores for the other three categories.

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GA-84-1, and GA-85-1. 1980-1986.

Appendix I
HAZARDOUS ASSESSMENT RATING METHODOLOGY

ROY M. DUKE, JR.
Senior Engineer

Education

M.S., Industrial Engineering, Stanford University
B.S., Aerospace Engineering, Oklahoma University
B.S., Commercial Science, Oklahoma School of Business

Experience

Mr. Duke is a senior project manager with CH2M HILL with responsibility for planning and executing projects that draw upon his expertise in environmental program administration. He also provides senior review and quality control on projects involving industrial wastewater treatment, leaking underground storage tanks, and underground injection systems.

Previous to joining CH2M HILL, Mr. Duke was the District Manager for the Southeast District of the Florida Department of Environmental Regulation. He was directly responsible for permitting and enforcement of facilities regulated by Florida environmental laws, including those handling hazardous and solid wastes, domestic and industrial wastewater treatment, and underground injection and storage.

As District Manager, Mr. Duke reviewed and approved the remedial action plans to clean up hazardous waste sites at the Pratt & Whitney plant in Palm Beach County, the Florida Steel site in Martin County, and the Grumman Aircraft impoundment in Martin County. He performed detailed technical analyses of the remedial action plans, negotiated changes to strengthen the plans, and negotiated and signed consent orders to ensure implementation. Mr. Duke also reviewed and approved closure plans for five major landfills and was responsible for permitting construction and operation of all of the active landfills in southeast Florida as well as two major solid waste resource recovery facilities in Dade and Palm Beach Counties.

Mr. Duke was responsible for permitting construction and operation of many small and major industrial and domestic wastewater treatment facilities in southeast Florida. He also reviewed and approved over 25 Class 1 injection wells in southeast Florida and participated in writing the Florida Administrative Code for underground injection control. Mr. Duke is currently engaged in developing an alternative method for confirming the mechanical integrity of existing Class I injection wells.

Mr. Duke was responsible for implementing the leaking underground storage tank program in southeast Florida. He

ROY M. DUKE, JR.

has performed detailed technical reviews of and approved numerous contamination assessment plans and remedial action plans for service stations, petroleum product depots, airport refueling facilities, and pipelines.

While working as a research and development engineer in the U.S. Air Force, Mr. Duke developed several devices for removal and reclamation of silver from spent photographic solutions and waste film.

Professional Registration

Professional Engineer, Florida

Membership in Professional Organizations

Tau Beta Pi

Water Pollution Control Federation

gnRE1

NORMAN N. HATCH, Jr., P.E.
Hazardous Waste Program Manager

EDUCATION

M.S., Environmental Engineering, University of Florida
M.S., Analytical Chemistry, University of Florida
B.S., Chemistry, University of New Hampshire

EXPERIENCE

Mr. Hatch's experience includes hazardous waste projects, laboratory and pilot treatability studies, process design of industrial wastewater treatment facilities, and process design of municipal water and wastewater treatment facilities.

Mr. Hatch is currently the program manager for the development of remedial action plans for uncontrolled hazardous materials disposal sites at U.S. Air Force installations throughout the Southeast. The remedial action plans include preliminary screening and detailed evaluation of alternatives followed by conceptual design documents for the selected site remedial actions. Community relations, regulatory agency interface, and environmental assessments are included in the remedial action planning process.

Mr. Hatch was the project manager for a turnkey remedial action cleanup at the Sydney Mine waste disposal site in Hillsborough County, Florida. As prime cleanup contractor and engineer, CH2M HILL is directing specialty subcontractors on several remedial action elements including incineration of waste pond contents onsite using a mobile rotary kiln incinerator, installation of a soil/clay groundwater cutoff wall and groundwater recovery system, construction of an onsite treatment plant including air stripping and activated carbon for groundwater treatment, and construction of a spray irrigation system for treated effluent disposal. The duration of the site cleanup project was nineteen months.

Mr. Hatch was responsible for hazardous materials disposal site evaluations for 34 U.S. Air Force installations throughout the United States. The site assessments were conducted to determine the potential for hazardous contaminant migration from past disposal practices and to recommend followup actions. He was also the project administrator for remedial action investigations at McClellan Air Force Base where extensive groundwater contamination has occurred from numerous industrial waste disposal pits. Work conducted on this project included surface geophysics, exploratory soil borings, shallow and

NORMAN N. HATCH

deep monitoring wells, design of an immediate remedial measure, and a feasibility study and conceptual design for long-term remedial action.

Mr. Hatch is also a principal investigator in the Biscayne Aquifer-Dade County REM/FIT project, which includes the evaluation of the size and extent of major well field contamination from numerous potential sources in the study area. A comprehensive remedial investigation was conducted, which included installing 31 monitoring wells, 6 rounds of sampling of these new wells and 80 existing wells, and evaluation of the data. A feasibility study is currently underway to determine the appropriate source control or offsite remedial measures for protection of the water supply. He is also a technical advisor for a remedial investigation and feasibility study for the Pepper Steel and Alloy superfund site in Dade County, Florida, where extensive PCB contamination has occurred as a result of past transformer recycling operations.

Mr. Hatch also participated in a comprehensive RCRA compliance program for Gulf Oil Company's Port Arthur Refinery in Texas.

Mr. Hatch has extensive experience in industrial wastewater treatment projects. He served as project manager of a feasibility study for treatment of high nitrogen industrial wastewater from the Air Products and Chemical, Inc., manufacturing complex in Pensacola, Florida. Treatment technologies investigated included aerated lagoons, oxidation ponds, anaerobic treatment ponds, spray irrigation, activated carbon, and air stripping. Mr. Hatch also served as project manager of a comprehensive treatability and process selection study for the American Cyanamid Fibers Division plant in Milton, Florida. Wastewater treatment processes investigated included spray irrigation, deep well injection, activated sludge, rotating biological contactors, anaerobic contact treatment, activated carbon, ion exchange, and chemical coagulation. In addition, Mr. Hatch has served as project manager for several other treatability and process selection studies for industrial clients, including Arizona Chemical Company, Kaiser Agricultural Chemicals, and Engelhard Minerals and Chemicals. He has also provided assistance in the investigation of state and NPDES discharge permits for Air Products and Chemicals, Inc., American Cyanamid, and Kaiser Agricultural Chemicals.

Mr. Hatch has extensive experience in municipal water and wastewater treatment. He served as lead engineer for an ozone disinfection pilot plant and feasibility study for the

NORMAN N. HATCH

City of Philadelphia's Queen Lane Water Treatment Plant. Mr. Hatch was also the lead engineer in charge of process design of chemical feed systems for the Queen Lane Plant, process design and design of chemical feed and sludge handling facilities for the Alexander City, Alabama, Water Treatment Plant, and process design and design of chemical feed system modifications for the St. Augustine, Florida, Water Treatment Plant. Mr. Hatch also served as project manager for a water system master plan for the City of Ft. Pierce, Florida; design of water treatment facilities for a sugar mill in south Florida; a feasibility study of direct wastewater reuse for potable water for the City of St. Petersburg, Florida; and pilot plant investigations leading to a unique system for removal of hydrogen sulfide from potable water for the Orlando Utilities Commission, Orlando, Florida.

Mr. Hatch also has experience in municipal wastewater treatment alternative analyses and process design and in the preparation of numerous 201 facilities plans.

Professional Registration

Professional Engineer, Florida, Georgia

Membership in Professional Organizations

Phi Beta Kappa
Phi Kappa Phi
Society of Sigma Xi
Water Pollution Control Federation

Publications and Presentations

With B. Haas and M. Nielsen. Slurry Wall Economical in Dewatering of Sydney Mine Disposal Site. Proceedings of the 3rd National Conference and Exhibition on Hazardous Wastes and Hazardous Materials. March 1986.

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NORMAN N. HATCH

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NORMAN N. HATCH

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Metal Elements in the Nitrous Oxide-Acetylene Flame.
Spectrochimica Acta B. 1973.

gnRE1

C. ROSS SPROUL
Senior Geohydrologist

Education

B.S., Geology, Florida State University
Graduate courses, Geology and Geomorphology, Florida State University

Experience

Mr. Sproul is responsible for the design of water supply wells and underground waste disposal and monitoring wells. His responsibilities include geohydrological investigations involving municipal and industrial water supply and waste disposal projects. He also has provided geohydrologic input for and participated in numerous planning studies involving ground- and surface-water interactions and waste disposal alternatives.

Mr. Sproul's projects include well location, design, construction, and testing of municipal water supply wells in Florida and Georgia. These projects have dealt with the special problems of coastal aquifers, including seawater intrusion, well field location, safe yield, and monitoring requirements, and the special problems of limestone terrains, including surface stability, movement of pollutants, water supply, and well completion techniques. These projects have required the use of numerous exploration techniques, including core drilling; electrical, seismic, and borehole geophysical surveys; and photointerpretation methods.

In the field of underground waste disposal and monitoring, Mr. Sproul's experience includes design of facilities and monitoring systems as well as consideration of environmental effects and cost-effectiveness. Projects have included Florida Power & Light Co.; The Quaker Oats Company; American Cyanamid; Hercules, Inc.; the Cities of Stuart, Florida, Margate, Florida, and St. Petersburg, Florida; and General Waterworks Corporation, Gainesville, Florida.

In the area of geohydrological investigations, Mr. Sproul has conducted water demand projections and planning; studies of the geochemistry of natural waters, including environmental implications and use of natural tracers; and projects involving geotechnical and geohydrological considerations in power plant siting, including evaluation of licensability of sites for nuclear and fossil plants.

C. ROSS SPROUL

Professional Registration

Certified Professional Geologist (American Institute of Geological Scientists)
Professional Geologist, State of Georgia

Membership in Professional Organizations

American Association for the Advancement of Science
Association of Professional Geological Scientists
Geological Society of America
Society of Professional Well Log Analysts

Publications

Spatial Distribution of Groundwater Temperature in South Florida, in Geothermal Nature of the Floridan Plateau. Symposium, Florida Department of Natural Resources, Prepublication review. 1977.

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With C. W. Hendry. Geology and Groundwater Resources of Leon County, Florida. Florida Department of Natural Resources. 1966.

gnRE2A

WILLIAM J. McELROY

Education

Coursework; Hydrology, Mathematics, and Engineering; Florida State University, Florida A&M, and University of Central Florida

B.S., Environmental Engineering, Century University

B.S., Physical Geography, University of South Florida

Experience

Mr. McElroy is an environmental engineering scientist in the Water Resources Division. Mr. McElroy has 12 years of experience related to water resources planning and analysis, hydrological investigations, and contaminant assessment. He has been involved in remedial investigations and analyses for groundwater restoration projects in areas of Florida having hydrocarbon contamination, and has worked on a number of projects for a major oil company. His efforts on such projects have involved designing and installing monitoring wells, designing and evaluating soil test boring programs, preparing contaminant assessment reports and remedial action plans, preparing construction documents for system installations, and monitoring the progress of cleanup operations. He is also skilled in stormwater management, land treatment system evaluations, and regulatory process negotiations.

Prior to joining CH2M HILL, Mr. McElroy was the manager of the Environmental Products and Services division of the Mid-Florida Mining Company in Lowell, Florida. In this capacity, he was responsible for the geotechnical development and marketing of TERRA-SEAL, a clay mineral liner used for seepage control; bid estimates for product installations; construction management aspects of liner projects, including inspection and testing; and overall quality control program for company consumer products.

While employed by a small engineering consulting firm in Gainesville, Florida, Mr. McElroy managed the Greenville sanitary landfill closure, including the development of a groundwater monitoring and final facility closure plan.

Mr. McElroy was employed by the Department of Environmental Regulation as an Engineer IV for the Bureau of Wastewater Management and Grants (BWMG). As such, he managed domestic wastewater facility construction grant projects in northern and central portions of Florida. He served as primary

WILLIAM J. McELROY

liaison between the Bureau and municipal officials, consulting engineers, and other agencies in all aspects of project development. He was also the Bureau's consulting hydrologist in the geotechnical review and approval of land application systems.

Mr. McElroy was also the project manager responsible for the technical and administrative development of the state's domestic wastewater facility regulations, which involved all aspects of waste collection, treatment and disposal.

Prior to this, and in other sections of the FDER, Mr. McElroy was an associate hydrologist responsible for development of technical manuals and criteria regarding the magnitude, effects and abatement of pollution from stormwater runoff; watershed investigations and data analysis on nonpoint source pollution; and hydrologic/water quality assessments for proposed land developments.

He was also the associate hydrologist responsible for designing and conducting water resource investigations for two large tracts of state-owned land in need of restoration because of development. Mr. McElroy also conducted a historical hydrologic analysis of a major river basin in support of a developing water management plan for the basin area.

Prior to working for FDER, Mr. McElroy was employed by the Florida Department of Natural Resources. He was the assistant hydrologist responsible for performing hydrologic assessments regarding land development impacts; designing and monitoring of a project to determine the effects of uncontrolled canal systems on water table drawdowns; and field investigation of water resource problems around the state.

Professional Registration

Engineer-in-Training-Florida

Membership in Professional Organizations

American Water Resource Association
National Water Well Association, Groundwater Scientists and
Engineers Division

Publications

Overview of State Rule Changes Affecting Domestic Wastewater Facilities. Presented at the 1983 Florida Wastewater Management Seminar. Tallahassee, Florida.

WILLIAM J. McELROY

LANDAP--A Computer Model to Evaluate the Water Balance for the Design of Land Application Systems. Final Project Thesis-Century University. April 1983.

Some Aspects of Subsurface Investigations for Land Application Systems under Chapter 17-6, Florida Administrative Code. Presented at the 1982 Florida Wastewater Management Seminar. Tampa, Florida.

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Co-authored. Critical, Ethical, and Political Aspects of Water Management in Florida. The Legislative Report. Vol. III, No. 3. May 1977.

Hydrologic Study for the Three Lakes Wildlife Management Area. FDER. April 1977.

gnRE2A

REBECCA A. LANCE SVATOS
Environmental Engineer

Education

M.S., Environmental Engineering, University of Texas at Austin
B.S., Civil Engineering, University of Iowa

Experience

Ms. Svatos is a project engineer in CH2M HILL's Hazardous Waste and Industrial Processes Division, Department of Hazardous and Solid Waste Engineering. Her main responsibilities are on projects dealing with hazardous waste management and contaminant assessment. Ms. Svatos also has used computer models to study both toxic and conventional contaminants in streams and lakes and has had experience with computer modeling of contaminants in groundwater.

Ms. Svatos created a computer groundwater quality data base for a contaminant assessment investigation of a contaminated potable water well field at Deerfield Beach, Florida. She also prepared a quality assurance project plan to provide guidance in collecting water, soil, and sediment samples at the site.

For a confidential client, Ms. Svatos was involved in revising a quality assurance project plan for the closure of an industrial wastewater surface impoundment. She also prepared a general equipment decontamination plan for closure activities at this site. For a hospital in Gainesville, Florida, Ms. Svatos assisted in a wastewater characterization study primarily intended to identify sources of silver in their effluent.

Prior to joining CH2M HILL, Ms. Svatos modified an existing surface water quality computer model and applied it to Lake Travis near Austin, Texas to assess the impacts of watershed development on reservoir water quality. These modeling results are being used by the Texas Water Commission to help determine whether to allow direct wastewater discharges to Lake Travis.

With the Omaha District of the U.S. Army Corps of Engineers, Ms. Svatos was a Study Manager in the Planning Division. Her responsibilities included project scheduling and budgeting, directing the work efforts of a multi-disciplinary study team, and coordination with local, state, and federal agencies for a comprehensive water resources study of semi-arid western South Dakota. The study examined a wide

REBECCA A. LANCE SVATOS

range of single and multi-purpose alternatives for meeting the municipal, rural, and agricultural water supply needs of the area.

Professional Registration

Engineer-in-Training, Iowa

Membership in Professional Organizations

American Society of Civil Engineers
Water Pollution Control Federation
Society of Women Engineers
Chi Epsilon
Phi Eta Sigma
Theta Tau

Publications and Presentations

With N. E. Armstrong, V. N. Gordon, K. D. Cleveland, R. J. Thomann, D. L. Tupa, G. R. Carlson, and J. D. Miertschin. Eutrophication Analysis Procedures for Texas Lakes and Reservoirs. Report No. 214. Center for Research in Water Resources, The University of Texas at Austin. 1986.

Development of a Two-Layer, Variable Volume Reservoir Water Quality Model with and without Varying Thermocline Depth. Master's Thesis. The University of Texas at Austin. August 1986.

Water Quality Modeling of Lake Travis. Presented at the Annual Conference of the Texas Water Pollution Control Association. San Antonio, Texas. June 1986.

RE2A

THOMAS C. EMENHISER
Manager, Laboratory Services

Education

B.S., Chemistry, University of Florida

Experience

Mr. Emenhiser is manager of the full-service environmental laboratory operating from CH2M HILL's Gainesville office. He has over 12 years of experience in industrial wastewater treatment, hazardous waste assessment, and water quality investigations. He has worked on a wide variety of projects and has a broad range of experience in several technical areas.

As manager of the Gainesville laboratory, Mr. Emenhiser established the laboratory test procedures for analyzing the indicator parameters for gasoline contamination samples. The Gainesville laboratory analyzes approximately 100 samples per month for benzene, toluene, and xylenes by U.S. EPA Method 602. These compounds are the typical indicator parameters for petroleum hydrocarbon contamination studies. Mr. Emenhiser is well versed not only in the details of the analytical procedures but also in interpreting data sets that assess the extent and the source (e.g., gasoline, kerosene, diesel fuel) of contamination.

During the last several years, Mr. Emenhiser has been involved in several projects associated with the EPA's RCRA and Superfund programs. He was the project team leader for the Biscayne Aquifer groundwater sampling project. This project required groundwater sampling of 120 wells in the Miami area in accordance with EPA sampling protocol, including maintenance of field notebooks, chain of custody records, and organic/inorganic traffic reports.

Mr. Emenhiser has been the field manager for several industrial wastewater characterization and treatability studies, including those conducted for Engelhard Industries at Attapulgis, Georgia; and Hercules, Inc., at their Gibbstown, N.J. and Brunswick, Georgia facilities. His responsibilities on these projects included the characterization of the strength and quantity of wastewater streams to determine their overall pollutant load and the evaluation of alternative experimental techniques (e.g., dissolved air flotation, activated carbon adsorption, jar test coagulation, and bench-scale biological reactors) for development of the optimum treatment/disposal system for the respective facilities.

THOMAS C. EMENHISER

Mr. Emenhiser has been involved in several process designs for industrial wastewater treatment facilities and spent 6 months in Caracas, Venezuela completing a preliminary design on the treatment of upgrader and produced wastewaters for the Lagoven Oil Company.

Mr. Emenhiser also has extensive experience in surface-water quality investigations. He has been involved in limiting nutrient investigations and non-point source water quality and quantity studies for the Florida Sugar Cane League, Deseret Ranches, and Jacksonville Suburban Utilities.

Membership in Professional Organizations

Water Pollution Control Federation
Florida Pollution Control Association

Publications

With Udai P. Singh, J.I. Garcia-Bengochea, and James E. Orban. Cleanup of Miami Drum Hazardous Waste Site. Journal of Environmental Engineering. 1984.

With Udai P. Singh. Innovative Sampling Techniques for Ground Water Monitoring at Hazardous Waste Sites. Ground Water Monitoring Review. 1984.

With Udai P. Singh, Norman N. Hatch, J.I. Garcia-Bengochea, and James E. Orban. Remedial Investigations at Biscayne Aquifer Hazardous Waste Sites. Presented at the American Society of Civil Engineers Specialty Conference on Environmental Engineering, Los Angeles, California. 1984.

With Rufus J. Bruner, Norman N. Hatch, and Udai P. Singh. Sampling Procedures for the Biscayne Aquifer Protection Study. Presented at the National Water Well Association's Fourth National Symposium and Exposition on Aquifer Restoration and Ground Water Modeling, Columbus, Ohio. 1984.

With Ross Sproul. Effects of Hydrogen Sulfide in Florida Groundwaters. Presented at the Third Annual Groundwater Symposium of the Northwest Florida Water Management District.

ERIC W. MEYER
Hydrogeologist

Education

Graduate studies, Geology, University of Florida
B.S., Geology, University of Florida
A.A., Geology, Miami-Dade Community College

Experience

Mr. Meyer specializes in groundwater geology and stratigraphic interpretation through the use of borehole geophysics. He is skilled in the design, construction, and testing of municipal water supply wells and deep disposal wells. He is also skilled in the use of CH2M HILL borehole geophysical logging equipment.

Mr. Meyer provided the stratigraphic interpretation and examination of formation samples for the City of Margate deep disposal well and monitoring well system, the City of Sunrise deep disposal and monitoring well system, Pratt and Whitney Aircraft deep disposal and monitoring well system, the City of St. Petersburg deep disposal well and monitoring well system, West Coast Regional Water Supply Authority (WCRWSA) Van Dyke Road test production well, WCRWSA Tampa Bypass Canal project, and WCRWSA Starkey Well Field.

Mr. Meyer was resident geologist during the construction of the WCRWSA's Van Dyke Road test production well, the City of Margate's deep disposal and monitoring well system, and Pratt & Whitney Aircraft deep disposal and monitoring well system. His resident observation responsibilities included interfacing between the owner and the contractor, evaluating pay estimates, interpreting geophysical logs for use in the design of both water supply wells and deep disposal wells, examining formation samples for lithologic and paleontologic constituents, and performing the hydraulic testing of wells using both pump-out tests and injection tests.

Mr. Meyer participated in the Area of Review Guidance for injection wells in the State of Indiana, sponsored by the U. S. Environmental Protection Agency, Region V. A statistical evaluation of geohydrologic characteristics of the many wellfields in Indiana was accomplished and tabulated for reference. The production zone characteristics were used in a mathematical model to evaluate the areal effects of injection wells. The study provided the information necessary for evaluating the Area of Review for new injection wells and addressed the need for site specific data prior to permitting.

Mr. Meyer is experienced in optical crystallography and was involved in x-ray diffraction research in the Department of

ERIC W. MEYER

Geology at the University of Florida. The research was sponsored by the Joint Committee on Powder Diffraction Standards (JCPDS) for improvement of the powder diffraction data on phosphate minerals included in the Powder Diffraction File (PDF). Use of FORTRAN Appleman and Evans computer program for crystal structure analysis and the SANDMAN search program were both necessary for evaluation of x-ray data.

Memberships in Professional Organizations

American Association of Petroleum Geologists
Geological Society of America (GSA)
GSA Divisions: Engineering Geology, Geophysics,
Hydrogeology
Miami Geological Society

gnRE2A

BRIAN D. PAINTER
Hydrogeologist

Education

M.S., Hydrogeology, Ohio University
B.S., Geology, Northern Kentucky University

Experience

Mr. Painter is responsible for technical involvement in groundwater supply and contamination work, primarily in the eastern district. His duties include water resource evaluations by computer methods, determination of pollutant movement in groundwater, aquifer evaluation by pump testing, monitoring well siting, and field inspection of drilling activities.

Mr. Painter's responsibilities have included several projects involving technical analysis of groundwater data and preparation of technical reports on the hydrogeology of hazardous waste sites, with emphasis on pollutant effects on potable groundwater supplies.

Mr. Painter served as a resident hydrogeologist and inspector for a prototype recharge/recovery well system for General Development Utilities' Peace River Water Plant, DeSoto County, Florida. His duties onsite included conducting aquifer tests, assisting in geophysical logging and interpretation, and report preparation. His involvement in other projects for General Development Utilities includes preparation of technical specifications and project coordination for Canal/Aquifer interaction studies in Port Malabar, Florida.

Other areas of technical hydrogeology Mr. Painter is familiar with include the use of three-dimensional computer models to evaluate water resource potential and the use of models to predict pollutant movement in groundwater. Mr. Painter has been able to successfully implement a groundwater modeling system on the IBM PC Micro Computers, making modeling a useful and cost-effective tool. Several successful modeling studies have been carried out to date. Most importantly, a modeling effort was used to predict the effects of the Peace River final build out wellfield in the Desota County area.

Mr. Painter has also had training in surface water hydrology and recharge evaluation methods.

Memberships in Professional Organizations

National Water Well Association
Sigma Gamma Epsilon Geologic Fraternity

BRIAN D. PAINTER

Publications

"A Three-Dimensional Hydrologic Model of Lee County, Florida," Proceedings of the First Conference on Practical Application of Ground Water Models, National Water Well Association, Worthington, Ohio, August 15-17, 1984.

RE2A

KEVIN J. FLANAGAN
Project Surveyor

Education

B.A., Education, University of Florida

Experience

Mr. Flanagan has participated in a wide variety of survey and mapping projects. His duties include supervision and scheduling of field work; project cost estimating; survey computations; courthouse research; writing legal descriptions; and preparation of computer-generated maps.

Mr. Flanagan was involved in both field and office activities for the Coastal Construction Control Line, a second-order Class II geodetic survey, on behalf of the Florida Department of Natural Resources. He directed a field crew through all phases of field work from reconnaissance and monumentation to traversing and polaris observations on over 100 miles of Florida coastline. Office work included survey computations and the preparation of legal descriptions.

As a project surveyor for the Collier County wastewater collection system in Naples, Florida, Mr. Flanagan directed high altitude photo-control surveys, 30 miles of route surveys, and various topographic and boundary surveys. His duties also included the preparation of 185 easement descriptions.

In Clay County, Florida, Mr. Flanagan supervised survey field crews obtaining the necessary information for right-of-way design surveys, a right-of-way map with legal description, and construction plans for 4.6 miles of county road.

Mr. Flanagan has worked on all phases of property, topographic, boundary, route, easement, and control surveys for a broad spectrum of clients, including: the Grand Strand Water and Sewer Authority, Conway, South Carolina; the Cities of St. Augustine, Florida and Alexander City, Alabama; the Ft. Pierce Utilities Authority, Ft. Pierce, Florida; the Englewood Water District, Englewood, Florida; the U.S. Coast Guard Base, Kodiak, Alaska; and the West Coast Regional Water Supply Authority, Pasco County, Florida.

Before joining CH2M HILL, Mr. Flanagan received training and experience with three other firms. His primary responsibilities were the construction staking of roads, drainage, and sewer systems.

KEVIN J. FLANAGAN

Professional Registration

Land Surveyor, Florida, New York

Membership in Professional Organizations

Florida Society of Professional Land Surveyors

gnRE1

USAF INSTALLATION RESTORATION PROGRAM HAZARD ASSESSMENT RATING METHODOLOGY

BACKGROUND

The Department of Defense (DoD) has established a comprehensive program to identify, evaluate, and control problems associated with past disposal practices at DoD facilities. One of the actions required under this program is to:

"develop and maintain a priority listing of contaminated installations and facilities for remedial action based on potential hazard to public health, welfare, and environmental impacts." (Reference: DEQPPM 81-5, 11 December 1981).

Accordingly, the United States Air Force (USAF) has sought to establish a system to set priorities for taking further actions at sites based upon information gathered during the Records Search phase of its Installation Restoration Program (IRP).

The first site rating model was developed in June 1981 at a meeting with representatives from USAF Occupational and Environmental Health Laboratory (OEHL), Air Force Engineering and Services Center (AFESC), Engineering-Science (ES) and CH2M HILL. The basis for this model was a system developed for EPA by JRB Associates of McLean, Virginia. The JRB model was modified to meet Air Force needs.

After using this model for 6 months at over 20 Air Force installations, certain inadequacies became apparent. Therefore, on January 26 and 27, 1982, representatives of USAF OEHL, AFESC, various major commands, Engineering

Science, and CH2M HILL met to address the inadequacies. The result of the meeting was a new site rating model designed to present a better picture of the hazards posed by sites at Air Force installations. The new rating model described in this presentation is referred to as the Hazard Assessment Rating Methodology.

PURPOSE

The purpose of the site rating model is to provide a relative ranking of sites of suspected contamination from hazardous substances. This model will assist the Air Force in setting priorities for follow-on site investigations and confirmation work under Phase II of IRP.

This rating system is used only after it has been determined that (1) potential for contamination exists (hazardous wastes present in sufficient quantity), and (2) potential for migration exists. A site can be deleted from consideration for rating on either basis.

DESCRIPTION OF MODEL

Like the other hazardous waste site ranking models, the U.S. Air Force's site rating model uses a scoring system to rank sites for priority attention. However, in developing this model, the designers incorporated some special features to meet specific DoD program needs.

The model uses data readily obtained during the Record Search portion (Phase I) of the IRP. Scoring judgments and computations are easily made. In assessing the hazards at a given site, the model develops a score based on the most likely routes of contamination and the worst hazards at the site. Sites are given low scores only if there are clearly no hazards at the site. This approach meshes well with the

policy for evaluating and setting restrictions on excess DoD properties.

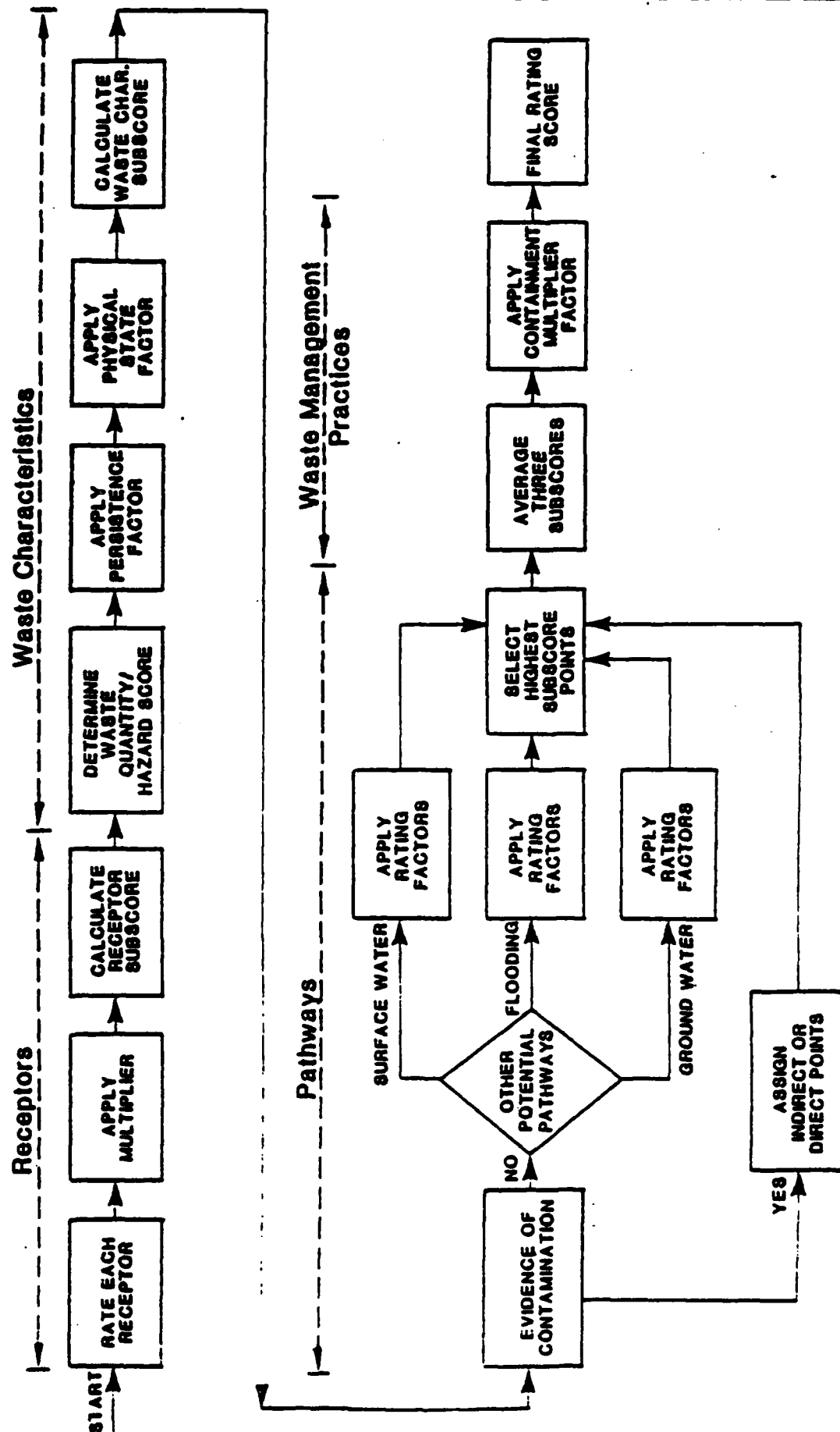
Site scores are developed using the appropriate ranking factors according to the method presented in the flow chart (Figure 1). The site rating form is provided in Figure 2 and the rating factor guidelines are provided in Table 1.

As with the previous model, this model considers four aspects of the hazard posed by a specific site: the possible receptors of the contamination, the waste and its characteristics, the potential pathways for waste contaminant migration, and any efforts to contain the contamination. Each of these categories contains a number of rating factors that are used in the overall hazard rating.

The receptors category rating is calculated by scoring each factor, multiplying by a factor weighting constant, and adding the weighted scores to obtain a total category score.

The pathways category rating is based on evidence of contaminant migration or an evaluation of the highest potential (worst case) for contaminant migration along one of three pathways. If evidence of contaminant migration exists, the category is given a subscore of 80 to 100 points. For indirect evidence, 80 points are assigned and for direct evidence 100 points are assigned. If no evidence is found, the highest score among three possible routes is used. These routes are surface-water migration, flooding, and ground-water migration. Evaluation of each route involves factors associated with the particular migration route. The three pathways are evaluated and the highest score among all four of the potential scores is used.

HAZARD ASSESSMENT RATING METHODOLOGY FLOW CHART



HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE _____
 LOCATION _____
 DATE OF OPERATION OR OCCURRENCE _____
 OWNER/OPERATOR _____
 COMMENTS/DESCRIPTION _____
 SITE RATED BY _____

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site		4		
B. Distance to nearest well		10		
C. Land use/zoning within 1 mile radius		3		
D. Distance to reservation boundary		6		
E. Critical environments within 1 mile radius of site		10		
F. Water quality of nearest surface water body		6		
G. Ground water use of uppermost aquifer		9		
H. Population served by surface water supply within 3 miles downstream of site		6		
I. Population served by ground-water supply within 3 miles of site		6		

Subtotals _____

Receptors subcore (100 X factor score subtotal/maximum score subtotal) _____

II. WASTE CHARACTERISTICS

- A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large) _____
2. Confidence level (C = confirmed, S = suspected) _____
3. Hazard rating (H = high, M = medium, L = low) _____

Factor Subscore A (from 20 to 100 based on factor score matrix) _____

- B. Apply persistence factor

Factor Subscore A X Persistence Factor = Subscore B

_____ X _____ = _____

- C. Apply physical state multiplier

Subscore B X Physical State Multiplier = Waste Characteristics Subscore

_____ X _____ = _____

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subcore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				

Subscore _____

- B. Rate the migration potential for 3 potential pathways: surface water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.

1. Surface water migration

Distance to nearest surface water		5		
Net precipitation		6		
Surface erosion		5		
Surface permeability		6		
Rainfall intensity		5		

Subtotals _____

Subscore (100 x factor score subtotal/maximum score subtotal) _____

2. Flooding

Subscore (100 x factor score/3) _____

3. Ground-water migration

Depth to ground water		5		
Net precipitation		6		
Soil permeability		5		
Subsurface flows		5		
Direct access to ground water		5		

Subtotals _____

Subscore (100 x factor score subtotal/maximum score subtotal) _____

C. Highest pathway subscore.

Enter the highest subscore value from A, B-1, B-2 or B-3 above.

Pathways Subscore _____

IV. WASTE MANAGEMENT PRACTICES

- A. Average the three subscores for receptors, waste characteristics, and pathways.

Receptors _____
 Waste Characteristics _____
 Pathways _____

Total _____ divided by 3 = _____
 Gross Total Score _____

- B. Apply factor for waste containment from waste management practices

Gross Total Score x Waste Management Practices Factor = Final Score

_____ x _____ =

Table D-1
HAZARDOUS ASSESSMENT RATING METHODOLOGY GUIDELINES

1. RECEPTORS CATEGORY

Rating Factors	Rating Scale Levels			Multiplier
	0	1	2	
A. Population within 1,000 feet (includes on-base facilities)	0	1-25	26-100	4
B. Distance to nearest water well	Greater than 3 miles	1 to 3 miles	3,001 feet to 1 mile	10
C. Land Use/Zoning (within 1-mile radius)	Completely remote (zoning not applicable)	Agricultural	Commercial or Industrial	3
D. Distance to installation boundary	Greater than 2 miles	1 to 2 miles	1,001 feet to 1 mile	6
E. Critical environments (within 1-mile radius)	Not a critical environment	Natural areas	Pristine natural areas; minor wetlands; preserved areas; presence of economically important natural resources susceptible to contamination	10
F. Water quality/use designation of nearest surface water body	Agricultural or Industrial use	Recreation, propagation and management of fish and wildlife	Shellfish propagation and harvesting	6
G. Ground-water use of uppermost aquifer	Not used, other sources readily available	Commercial, industrial, or irrigation, very limited other water sources	Drinking water, municipal water available	9
H. Population served by surface water supplies within 3 miles downstream of site	0	1-15	51-1,000	6
I. Population served by aquifer supplies within 3 miles of site	0	1-50	51-1,000	6

Table D-1--Continued

II. WASTE CHARACTERISTICS

A-1 Hazardous Waste Quantity

- S = Small quantity (5 tons or 20 drums of liquid)
- M = Moderate quantity (5 to 20 tons or 21 to 85 drums of liquid)
- L = Large quantity (20 tons or 85 drums of liquid)

A-2 Confidence Level of Information

C = Confirmed confidence level (minimum criteria below)

- o Verbal reports from interviewer (at least 2) or written information from the records

- o Knowledge of types and quantities of wastes generated by shops and other areas on base

S = Suspected confidence level

- o No verbal reports or conflicting verbal reports and no written information from the records

- o Logic based on a knowledge of the types and quantities of hazardous wastes generated at the base, and a history of past waste disposal practices indicate that these wastes were disposed of at a site

A-3 Hazard Rating

Rating Factors	Rating Scale Levels		
	0	1	2
Toxicity	Sax's Level 0	Sax's Level 1	Sax's Level 2
Ignitability	Flash point greater than 200°F	Flash point at 140°F to 200°F	Flash point at 80°F to 140°F
Radioactivity	At or below background levels	1 to 3 times background levels	3 to 5 times background levels

Use the highest individual rating based on toxicity, ignitability and radioactivity and determine the hazard rating.

Hazard Rating

Points	
High (H)	3
Medium (M)	2
Low (L)	1

Table D-1--Continued

11. WASTE CHARACTERISTICS--Continued

Waste Characteristics Matrix

Point Rating	Hazardous Waste Quantity	Confidence Level of Information	Hazard Rating
100	L	C	H
80	L	C	M
70	M	C	H
60	L	S	H
60	S	C	H
50	M	C	H
50	L	S	M
50	L	C	L
50	M	S	H
40	S	C	H
40	M	S	M
40	M	C	L
30	L	S	L
30	M	C	L
30	S	S	N
20	S	S	L

Notes:

For a site with more than one hazardous waste, the waste quantities may be added using the following rules:

Confidence Level

- o Confirmed confidence levels (C) can be added.
- o Suspected confidence levels (S) can be added.
- o Confirmed confidence levels cannot be added with suspected confidence levels.

Waste Hazard Rating

- o Wastes with the same hazard rating can be added.
- o Wastes with different hazard ratings can only be added in a downgrade mode, e.g., MCH + SCH = LCH if the total quantity is greater than 20 tons.

Example: Several wastes may be present at a site, each having an MCH designation (60 points). By adding the quantities of each waste, the designation may change to LCH (80 points). In this case, the correct point rating for the waste is 80.

B. Persistence Multiplier for Point Rating

Multiply Point Rating Persistence Criteria	From Part A by the Following
Metals, polycyclic compounds, and halogenated hydrocarbons	1.0
Substituted and other ring compounds	0.9
Straight chain hydrocarbons	0.8
Easily biodegradable compounds	0.4

C. Physical State Multiplier

Physical State

Liquid	1.0
Sludge	0.75
Solid	0.50

Multiply Point Total From Parts A and B by the Following

Table D-1--Continued

III. PATHWAYS CATEGORY

A. Evidence of Contamination

Direct evidence is obtained from laboratory analyses of hazardous contaminants present above natural background levels in surface water, ground water, or air. Evidence should confirm that the source of contamination is the site being evaluated.

Indirect evidence might be from visual observation (i.e., leachate), vegetation stress, sludge deposits, presence of taste and odors in drinking water, or reported discharges that cannot be directly confirmed as resulting from the site, but the site is greatly suspected of being a source of contamination.

B-1 Potential for Surface Water Contamination

Rating Factors	Rating Scale Levels			Multiplier	
	0	1	2		
Distance to nearest surface water (includes drainage ditches and storm sewers)	Greater than 1 mile	2,001 feet to 1 mile	501 feet to 2,000 feet	0 to 500 feet	8
	Less than -10 inches	-10 to +5 inches	+5 to +20 inches	Greater than +20 inches	6
Net precipitation	None	Slight	Moderate	Severe	8
Surface erosion	0% to 15% clay ($>10^{-2}$ cm/sec)	15% to 30% clay (10^{-4} to 10^{-6} cm/sec)	30% to 50% clay (10^{-6} to 10^{-8} cm/sec)	Greater than 50% clay ($>10^{-6}$ cm/sec)	6
Surface permeability	<1.0 inch	1.0 to 2.0 inches	2.1 to 3.0 inches	>3.0 inches	8
Rainfall intensity based on 1-year 24-hour rainfall					

B-2 Potential for Flooding

Floodplain	Beyond 100-year floodplain	In 25-year floodplain	In 10-year floodplain	Floods annually	1
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B-3 Potential for Ground-Water Contamination

Depth to ground water	Greater than 500 feet	50 to 500 feet	11 to 50 feet	0 to 10 feet	8
Net precipitation	Less than -10 inches	-10 to +5 inches	+5 to +20 inches	Greater than +20 inches	6
Soil permeability	Greater than 50% clay ($>10^{-6}$ cm/sec)	30% to 50% clay (10^{-4} to 10^{-6} cm/sec)	15% to 30% clay (10^{-2} to 10^{-4} cm/sec)	0% to 15% clay ($<10^{-2}$ cm/sec)	8

Table D-1--Continued

B-3 Potential for Ground-Water Contamination--Continued

Rating Factors	Rating Scale Levels			Multiplier
	0	1	2	
Subsurface flows	Bottom of site greater than 5 feet above high ground-water level	Bottom of site occasionally submerged	Bottom of site frequently submerged	Bottom of site located below mean ground-water level
Direct access to ground water (through faults, fractures, faulty well casings, subsidence, fissures, etc.)	No evidence of risk	Low risk	Moderate risk	High risk

IV. WASTE MANAGEMENT PRACTICES CATEGORY

A. This category adjusts the total risk as determined from the receptors, pathways, and waste characteristics categories for waste management practices and engineering controls designed to reduce this risk. The total risk is determined by first averaging the receptors, pathways, and waste characteristics subscores.

B. Waste Management Practices Factor

The following multipliers are then applied to the total risk points (from A):

Waste Management Practice	Multiplier
No containment	1.0
Limited containment	0.95
Fully contained and in full compliance	0.10

Guidelines for fully contained:

Landfills:

- o Clay cap or other impermeable cover
- o Leachate collection system
- o Liners in good condition
- o Adequate monitoring wells

Spills:

- o Quick spill cleanup action taken
- o Contaminated soil removed
- o Soil and/or water samples confirm total cleanup of the spill

Surface Impoundments:

- o Liners in good condition
- o Sound dikes and adequate freeboard
- o Adequate monitoring wells

Fire Protection Training Areas:

- o Concrete surface and berms
- o Oil/water separator for pretreatment of runoff
- o Effluent from oil/water separator to treatment plant

General Note: If data are not available or known to be complete the factor ratings under items I-A through I, III-B-1, or III-6-3, then leave blank for calculation of factor score and maximum possible score.

App. J

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE: Burma Road Landfill (Site No. 1)
 LOCATION: Moody AFB
 DATE OF OPERATION OR OCCURRENCE: 1941-1946, 1951-1952
 OWNER/OPERATOR: Moody AFB
 COMMENTS/DESCRIPTION: Main Base Landfill during World War II
 SITE RATED BY: M. Hatch, B. Heas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	0	4	0	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	2	3	6	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	3	10	30	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			108	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

60

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large) S
 2. Confidence level (C = confirmed, S = suspected) S
 3. Hazard rating (H = high, M = medium, L = low) M
- Factor Subscore A (from 20 to 100 based on factor score matrix) 30

B. Apply persistence factor
 Factor Subscore A x Persistence Factor = Subscore B

$$30 \times 0.8 = 24$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$24 \times 1.0 = \underline{24}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
Subscore				0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	3	8	24	24
Net precipitation	1	6	6	18
Surface erosion	1	8	8	24
Surface permeability	1	6	6	18
Rainfall intensity	3	8	24	24
Subtotals			68	108
Subscore (100 x factor score subtotal/maximum score subtotal)				63
2. Flooding				
	0	1	0	100
Subscore (100 x factor score/3)				0
3. Ground-water migration				
Depth to ground water	3	8	24	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	1	8	8	24
Direct access to ground water	N/A	8	--	--
Subtotals			46	90
Subscore (100 x factor score subtotal/maximum score subtotal)				51
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
Pathways Subscore				<u>63</u>

IV. WASTE MANAGEMENT PRACTICES

- A. Average the three subscores for receptors, waste characteristics, and pathways.

Receptors	60
Waste Characteristics	24
Pathways	63
Total 147 divided by 3 =	49
Gross Total Score	

- B. Apply factor for waste containment from waste management practices

Gross Total Score x Waste Management Practices Factor = Final Score

$$49 \times 1.0 = \underline{\underline{49}}$$

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE: Northwest Landfill (Site No. 2)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1953-1955

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: Main Base Landfill

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	3	4	12	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	3	3	9	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	1	10	10	30
F. Water quality of nearest surface-water body	0	6	0	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			97	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

54

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

S

3. Hazard rating (H = high, M = medium, L = low)

M

Factor Subscore A (from 20 to 100 based on factor score matrix)

30

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

$$30 \times 0.8 = 24$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$24 \times 1.0 = \underline{24}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
Subscore				0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	3	8	24	24
Net precipitation	1	6	6	18
Surface erosion	0	8	0	24
Surface permeability	1	6	6	18
Rainfall intensity	3	8	24	24
Subtotals			60	108
Subscore (100 x factor score subtotal/maximum score subtotal)				56
2. Flooding				
	0	1	0	100
Subscore (100 x factor score/3)				0
3. Ground-water migration				
Depth to ground water	2	8	16	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	0	8	0	24
Direct access to ground water	N/A	8	--	--
Subtotals			30	90
Subscore (100 x factor score subtotal/maximum score subtotal)				33
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
Pathways Subscore				<u>56</u>

IV. WASTE MANAGEMENT PRACTICES

- A. Average the three subscores for receptors, waste characteristics, and pathways.

Receptors	54
Waste Characteristics	24
Pathways	56
Total 134 divided by 3 =	45
Gross Total Sc	

- B. Apply factor for waste containment from waste management practices

Gross Total Score x Waste Management Practices Factor = Final Score

45 x 1.0

45

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE: Southwest Landfill (Site No. 3)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1955-1972

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: Main Base Landfill, includes low-level radioactive tube disposal

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	1	4	4	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	3	3	9	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	3	10	30	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			115	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

64

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

S

3. Hazard rating (H = high, M = medium, L = low)

H

Factor Subscore A (from 20 to 100 based on factor score matrix)

40

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

40 x 1.0 = 40

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

40 x 1.0 = 40

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
Subscore				0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	3	8	24	24
Net precipitation	1	6	6	18
Surface erosion	1	8	8	24
Surface permeability	1	6	6	18
Rainfall intensity	3	8	24	24
Subtotals			68	108
Subscore (100 x factor score subtotal/maximum score subtotal)				63
2. Flooding				
	0	1	0	100
Subscore (100 x factor score/3)				0
3. Ground-water migration				
Depth to ground water	2	8	16	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	1	8	8	24
Direct access to ground water	N/A	8	--	--
Subtotals			38	90
Subscore (100 x factor score subtotal/maximum score subtotal)				42
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
Pathways Subscore				<u>63</u>

IV. WASTE MANAGEMENT PRACTICES

A. Average the three subscores for receptors, waste characteristics, and pathways.			
	Receptors		64
	Waste Characteristics		40
	Pathways		63
	Total 167 divided by 3 =		56
	Gross Total Score		
B. Apply factor for waste containment from waste management practices			
Gross Total Score x Waste Management Practices Factor = Final Score			
	56 x 1.0 =		56

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of

NAME OF SITE: Northeast Landfill (Site No. 4)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1972-1978

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: Main Base Landfill, contaminated soil disposal

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	1	4	4	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	1	3	3	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	2	10	20	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			99	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

55

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

C

3. Hazard rating (H = high, M = medium, L = low)

H

Factor Subscore A (from 20 to 100 based on factor score matrix)

60

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

$$60 \times 1.0 = 60$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$60 \times 0.5 = \underline{30}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
			Subscore	0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	1	8	8	24
Net precipitation	1	6	6	18
Surface erosion	2	8	16	24
Surface permeability	2	6	12	18
Rainfall intensity	3	8	24	24
		Subtotals	66	108
			Subscore (100 x factor score subtotal/maximum score subtotal)	61
2. Flooding				
	0	1	0	100
			Subscore (100 x factor score/3)	0
3. Ground-water migration				
Depth to ground water	2	8	16	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	1	8	8	24
Direct access to ground water	N/A	8	--	--
		Subtotals	38	90
			Subscore (100 x factor score subtotal/maximum score subtotal)	42
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
			Pathways Subscore	<u>61</u>

IV. WASTE MANAGEMENT PRACTICES

A. Average the three subscores for receptors, waste characteristics, and pathways.				
			Receptors	55
			Waste Characteristics	30
			Pathways	61
			Total 146 divided by 3 =	49
			Gross Total Score	
B. Apply factor for waste containment from waste management practices				
Gross Total Score x Waste Management Practices Factor = Final Score				
			49 x 1.0 =	<u>49</u>

HAZARDOUS ASSESSMENT RATING FORM

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NAME OF SITE: DDT Burial Site (Site No. 5)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1973

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: 10-12 sealed drums, buried under clay cover, marked and fenced

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	1	4	4	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	1	3	3	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	2	10	20	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			99	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

55

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

C

3. Hazard rating (H = high, M = medium, L = low)

H

Factor Subscore A (from 20 to 100 based on factor score matrix)

60

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

60 x 1.0 = 60

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

60 x 1.0 = 60

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
Subscore				0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	1	8	8	24
Net precipitation	1	6	6	18
Surface erosion	1	8	8	24
Surface permeability	2	6	12	18
Rainfall intensity	3	8	24	24
Subtotals			58	108
Subscore (100 x factor score subtotal/maximum score subtotal)				54
2. Flooding				
	0	1	0	100
Subscore (100 x factor score/3)				0
3. Ground-water migration				
Depth to ground water	2	8	16	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	0	8	0	24
Direct access to ground water	N/A	8	--	--
Subtotals			30	90
Subscore (100 x factor score subtotal/maximum score subtotal)				33
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
Pathways Subscore				<u>54</u>

IV. WASTE MANAGEMENT PRACTICES

A. Average the three subscores for receptors, waste characteristics, and pathways.			
	Receptors		55
	Waste Characteristics		60
	Pathways		54
	Total 169 divided by 3 =		56
	Gross Total Score		
B. Apply factor for waste containment from waste management practices			
Gross Total Score x Waste Management Practices Factor = Final Score			
	56 x 0.95 =		53

HAZARDOUS ASSESSMENT RATING FORM

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NAME OF SITE: Burma Road Fire Department Training Area (Site No. 6)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1941-1946, 1951-1955

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: Earthen dike, circular area

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	0	4	0	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	2	3	6	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	3	10	30	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			108	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

60

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

S

3. Hazard rating (H = high, M = medium, L = low)

H

Factor Subscore A (from 20 to 100 based on factor score matrix)

40

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

$$40 \times 0.8 = 32$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$32 \times 1.0 = \underline{32}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
Subscore				0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	3	8	24	24
Net precipitation	1	6	6	18
Surface erosion	1	8	8	24
Surface permeability	1	6	6	18
Rainfall intensity	3	8	24	24
Subtotals			68	108
Subscore (100 x factor score subtotal/maximum score subtotal)				63
2. Flooding				
	0	1	0	100
Subscore (100 x factor score/3)				0
3. Ground-water migration				
Depth to ground water	3	8	24	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	0	8	0	24
Direct access to ground water	N/A	8	--	--
Subtotals			38	90
Subscore (100 x factor score subtotal/maximum score subtotal)				42
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
Pathways Subscore				<u>63</u>

IV. WASTE MANAGEMENT PRACTICES

- A. Average the three subscores for receptors, waste characteristics, and pathways.

Receptors	60
Waste Characteristics	33
Pathways	63
Total 155 divided by 3 =	52
Gross Total	

- B. Apply factor for waste containment from waste management practices

Gross Total Score x Waste Management Practices Factor = Final Score

52 x 1.0 =

52

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE: Existing Fire Department Training Area (Site No. 7)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1955-Present

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: 5 identified pits within 10 acres; 1 exercise/week to 1975; 4 exercises/year 1975-

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	0	4	0	12
B. Distance to nearest well	2	10	20	30
C. Land use/zoning within 1 mile radius	0	3	0	9
D. Distance to reservation boundary	1	6	6	18
E. Critical environments within 1 mile radius of site	3	10	30	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			80	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

44

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

C

3. Hazard rating (H = high, M = medium, L = low)

H

Factor Subscore A (from 20 to 100 based on factor score matrix)

60

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

$$60 \times 0.8 = 48$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$48 \times 1.0 = \underline{48}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
Subscore				0
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water	2	8	16	24
Net precipitation	1	6	6	18
Surface erosion	1	8	8	24
Surface permeability	2	6	12	18
Rainfall intensity	3	8	24	24
Subtotals			66	108
Subscore (100 x factor score subtotal/maximum score subtotal)				61
2. Flooding				
	0	1	0	100
Subscore (100 x factor score/3)				0
3. Ground-water migration				
Depth to ground water	3	8	24	24
Net precipitation	1	6	6	18
Soil permeability	1	8	8	24
Subsurface flows	0	8	0	24
Direct access to ground water	N/A	8	--	--
Subtotals			38	90
Subscore (100 x factor score subtotal/maximum score subtotal)				42
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
Pathways Subscore				<u>61</u>

IV. WASTE MANAGEMENT PRACTICES

- A. Average the three subscores for receptors, waste characteristics, and pathways.

Receptors	44
Waste Characteristics	48
Pathways	61
Total 153 divided by 3 =	51
Gross Total Score	

- B. Apply factor for waste containment from waste management practices

Gross Total Score x Waste Management Practices Factor = Final Score

$$51 \times 1.0 = \underline{51}$$

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE: Lily Pad Pond Fill Site (Site No. 8)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: --

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: Rubble fill site, some industrial waste disposal

SITE RATED BY: N. Hatch, B. Haas, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	0	4	0	12
B. Distance to nearest well	2	10	20	30
C. Land use/zoning within 1 mile radius	0	3	0	9
D. Distance to reservation boundary	2	6	12	18
E. Critical environments within 1 mile radius of site	3	10	30	30
F. Water quality of nearest surface-water body	1	6	6	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			86	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

48

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

C

3. Hazard rating (H = high, M = medium, L = low)

M

Factor Subscore A (from 20 to 100 based on factor score matrix)

50

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

$$50 \times 0.8 = 40$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$40 \times 1.0 = \underline{40}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
			Subscore	80
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water		8		24
Net precipitation		6		18
Surface erosion		8		24
Surface permeability		6		18
Rainfall intensity		8		24
		Subtotals		108
Subscore (100 x factor score subtotal/maximum score subtotal)				
2. Flooding		1		100
Subscore (100 x factor score/3)				
3. Ground-water migration				
Depth to ground water		8		24
Net precipitation		6		18
Soil permeability		8		24
Subsurface flows		8		24
Direct access to ground water		8		
		Subtotals		
Subscore (100 x factor score subtotal/maximum score subtotal)				
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
		Pathways Subscore		<u>80</u>

IV. WASTE MANAGEMENT PRACTICES

A. Average the three subscores for receptors, waste characteristics, and pathways.				
		Receptors		48
		Waste Characteristics		40
		Pathways		80
		Total 168 divided by 3 =		56
		Gross Total		
B. Apply factor for waste containment from waste management practices				
Gross Total Score x Waste Management Practices Factor = Final Score				
		56 x 1.0 =		<u>56</u>

HAZARDOUS ASSESSMENT RATING FORM

Page 1 of 2

NAME OF SITE: North POL Area (Site No. 12)

LOCATION: Moody AFB

DATE OF OPERATION OR OCCURRENCE: 1941-Present

OWNER/OPERATOR: Moody AFB

COMMENTS/DESCRIPTION: Dead trees downstream of drain outlets

SITE RATED BY: B. Haas, N. Hatch, R. Knight

I. RECEPTORS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. Population within 1,000 feet of site	2	4	8	12
B. Distance to nearest well	3	10	30	30
C. Land use/zoning within 1 mile radius	3	3	9	9
D. Distance to reservation boundary	3	6	18	18
E. Critical environments within 1 mile radius of site	1	10	10	30
F. Water quality of nearest surface-water body	0	6	0	18
G. Ground-water use of uppermost aquifer	0	9	0	27
H. Population served by surface-water supply within 3 miles downstream of site	0	6	0	18
I. Population served by ground-water supply within 3 miles of site	3	6	18	18
Subtotals			93	180

Receptors subscore (100 x factor score subtotal/maximum subtotal)

52

II. WASTE CHARACTERISTICS

A. Select the factor score based on the estimated quantity, the degree of hazard, and the confidence level of the information.

1. Waste quantity (S = small, M = medium, L = large)

S

2. Confidence level (C = confirmed, S = suspected)

S

3. Hazard rating (H = high, M = medium, L = low)

H

Factor Subscore A (from 20 to 100 based on factor score matrix)

40

B. Apply persistence factor

Factor Subscore A x Persistence Factor = Subscore B

$$40 \times 0.8 = 32$$

C. Apply physical state multiplier

Subscore B x Physical State Multiplier = Waste Characteristics Subscore

$$32 \times 1.0 = \underline{32}$$

III. PATHWAYS

Rating Factor	Factor Rating (0-3)	Multiplier	Factor Score	Maximum Possible Score
A. If there is evidence of migration of hazardous contaminants, assign maximum factor subscore of 100 points for direct evidence or 80 points for indirect evidence. If direct evidence exists then proceed to C. If no evidence or indirect evidence exists, proceed to B.				
			Subscore	80
B. Rate the migration potential for three potential pathways: surface-water migration, flooding, and ground-water migration. Select the highest rating, and proceed to C.				
1. Surface-water migration				
Distance to nearest surface water		8		24
Net precipitation		6		18
Surface erosion		8		24
Surface permeability		6		18
Rainfall intensity		8		24
		Subtotals		108
Subscore (100 x factor score subtotal/maximum score subtotal)				
2. Flooding		1		100
Subscore (100 x factor score/3)				
3. Ground-water migration				
Depth to ground water		8		24
Net precipitation		6		18
Soil permeability		8		24
Subsurface flows		8		24
Direct access to ground water		8		
		Subtotals		
Subscore (100 x factor score subtotal/maximum score subtotal)				
C. Highest pathway subscore				
Enter the highest subscore value from A, B-1, B-2, or B-3 above.				
		Pathways Subscore		<u>80</u>

IV. WASTE MANAGEMENT PRACTICES

A. Average the three subscores for receptors, waste characteristics, and pathways.				
		Receptors		52
		Waste Characteristics		32
		Pathways		80
		Total 164 divided by 3 =		55
		Gross Total Score		
B. Apply factor for waste containment from waste management practices				
Gross Total Score x Waste Management Practices Factor = Final Score				
		55 x 1.0 =		<u>55</u>

Appendix J
SUMMARY OF DATA FROM OTHER REPORTS

DATA FROM CH2M HILL PHASE I STUDY

Moody AFB Major Disposal Sites

SANITARY LANDFILLS

Site No. 1 - Burma Rd. Landfill

Site No. 2 - Northwest Landfill

Site No. 3 - Southwest Landfill

Site No. 4 - Northeast Landfill

FIRE DEPARTMENT TRAINING AREAS

Site No. 6 - Burma Rd. Fire Dept. Training Area

Site No. 7 - Existing Fire Dept. Training Area

OTHER SITES

Site No. 5 - DDT Burial Site

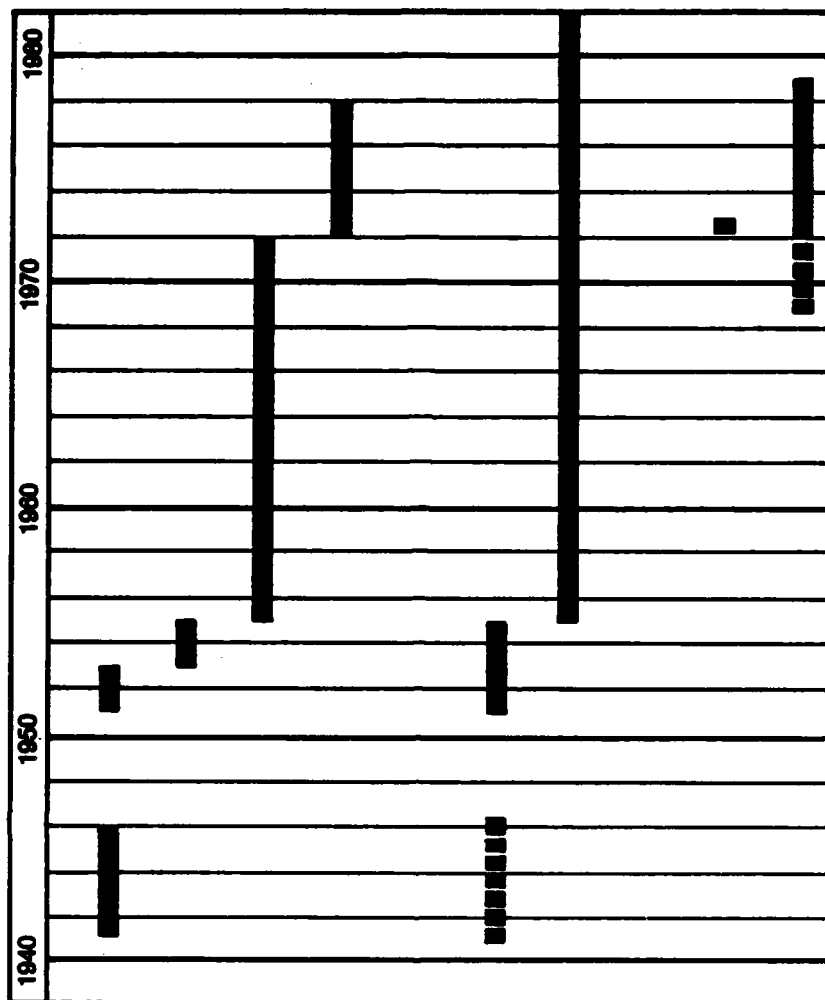
Site No. 8 - Lily Pad Pond Fill Site

LEGEND

■ Known Period of Operation

▨ Assumed Period of Operation

Approximate Dates



Note: Base deactivated between 1948 and 1951.

FIGURE 15. Historical summary of activities at major disposal sites at Moody AFB, Georgia—1941—1982.

Table 2
METEOROLOGICAL DATA SUMMARY FOR MOODY AFB, GEORGIA^a

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
<u>Temperature (°F)</u>													
Mean	52	55	61	69	75	80	82	82	79	69	60	54	68
Average Daily Maximum	61	64	71	79	85	89	91	90	87	79	70	63	77
Average Daily Minimum	42	45	51	59	65	71	73	73	70	59	50	44	59
Highest Recorded	82	86	88	95	99	104	103	100	98	94	90	83	104
Lowest Recorded	13	18	22	39	44	54	64	63	42	34	19	9	9
<u>Precipitation (inches)</u>													
Mean	3.3	4.0	4.7	3.9	3.9	4.3	6.2	5.4	3.4	2.0	2.6	3.3	47.0
Maximum	8.0	8.3	11.1	11.6	11.3	11.7	11.2	15.5	9.0	5.2	5.6	7.5	15.5
Minimum	0.5	1.5	0.9	0.4	0.6	0.8	1.6	1.3	0.1	T ^b	0.1	1.0	T
<u>Relative Humidity (%)</u>													
Mean	69	63	64	64	68	71	72	74	72	67	68	68	68
<u>Surface Winds (knots)</u>													
Mean	5	5	5	5	4	3	3	3	3	4	4	4	4
Maximum	44	49	48	52	51	65	45	48	46	44	41	39	65
Prevailing Direction	WNW	N	SSW	SSW	W	WSW	W	E	ENE	NE	N	N	E

Source: United States Air Force, Moody AFB, Georgia, Detachment 23, 3rd Weather Squadron.

^aPeriod of Record: 1951-1981.

^bT denotes less than 0.05 inch.

Table 5
THREATENED AND ENDANGERED SPECIES OCCURRING WITHIN THE
VICINITY OF MOODY AFB, LOWNDES AND LANIER COUNTIES, GEORGIA

Common Name	Scientific Name	State ^b	Federal	Habitat
<u>ANIMALS</u>				
Florida Panther ^a	<u>Felis concolor coryi</u>	E	E	Large wooded tracts
Red-Cockaded Woodpecker	<u>Picoides borealis</u>	E	E	Mature pine forests
Peregrine Falcon	<u>Falco peregrinus</u>	E	E	Occasional migrant
Southern Bald Eagle ^a	<u>Haliaeetus leucocephalus</u>	E	E	Wetland areas
American Alligator ^a	<u>Alligator mississippiensis</u>	E	T	Swamps and lakes
Indigo Snake	<u>Drymarchon corais couperi</u>	T	T	Sandhills and flatwoods
<u>PLANTS</u>				
Water-Milfoil	<u>Myriophyllum laxum</u>	T		Shallow freshwater pools
Cow-Bane	<u>Oxypolis canbyi</u>	T		Bogs and wet areas
Yellow Pitcher-Plant ^a	<u>Sarracenia flava</u>	T		Bogs and wet flatwoods
Hooded Pitcher-Plant ^a	<u>Sarracenia minor</u>	T		Bogs and wet flatwoods
Parrot Pitcher-Plant ^a	<u>Sarracenia psittacina</u>	T		Bogs and wet flatwoods
Sweet Pitcher-Plant	<u>Sarracenia rubra</u>	E		Bogs and wet flatwoods
Schizachyrium	<u>Schizachyrium niveum</u>	T		Open sandy woods

Source: Georgia Department of Natural Resources.

^a This species has been reported from Moody AFB or the Grassy Pond Annex.

^b E = Endangered; T = Threatened.

Table 6
MAJOR INDUSTRIAL OPERATIONS SUMMARY

Shop Name	Location (Bldg. No.)	Waste Material	Estimated Waste Quantity	Treatment/Storage/Disposal Methods			
				1940	1950	1960	1970
347th Transportation Squadron Vehicle Maintenance	977	Engine oil Grease Antifreeze Hydraulic fluid PD 680	1,000-3,000 gal/yr 240 gal/yr		Fire dept. ^a		Contractor removal DPD0 ^b
Paint	904	Paint Thinners	330 gal/yr		Fire Dept. ^a or landfill		DPD0 ^b
347 TFW/CBS							
Battery/Electrical	785	Lead acid Ni/Cd battery fluid Lubricating oil	240-360 gal/yr 30-40 gal/yr 60 gal/yr		Neutralized to ground surface		To sanitary sewer
					Combined with pneumatic shop wastes		
NDI Lab	702	Penetrant Emulsifier Fixer	108 gal/yr 110 gal/yr 120 gal/yr				DPD0 ^b
					Silver recovery; sanitary sewer		
Pneudraulics	785	PD 680 Hydraulic fluid	200-400 gal/yr 55 gal/yr		Fire dept. ^a		DPD0 ^b
Small Gas Turbine	758	Engine Oil Hydraulic fluid	660 gal/yr		Fire dept. ^a or DPD0 ^b		DPD0 ^b
				Fire dept. ^a or storm drain		Contractor disposal	DPD0 ^b
		PD 680 TCE Carbon remover Fingerprint remover	660 gal/yr				
		JP-4	2,600-3,000 gal/yr		Fire dept. ^a		DPD0 ^b
		Nitric acid Alkaline solution Alkali permanganate	1,200-1,600 gal/yr 600-800 gal/yr			Fire dept. ^a or DPD0 ^b	DPD0 ^b
						Contractor disposal	Sewage treatment plant

Table 6--Continued

Shop Name	Location (Bldg. No.)	Waste Material	Estimated Waste Quantity	Treatment/Storage/Disposal Methods			
				1940	1950	1960	1970
3471FW/ENS							
ACE	755	Hydraulic fluid Engine oil PD 680	660 gal/yr 2,000 gal/yr 660 gal/yr		Fire dept. ^a		DPD0 ^b
		PD 680	2,000 gal/yr	Storm drain		o/w separator at ACE washrack to sanitary sewer	
Armament Systems Maintenance	700	PD 680	1,320 gal/yr				DPD0 ^b
Corrosion Control	717	Paint strippers Thinners	60,000 gal/yr ^c	Storm drain	Contractor removal	Controlled discharge to sanitary sewer	
		Mixed paints	660 gal/yr				DPD0 ^b
	Washrack	PD 680	1,300-2,500 gal/yr	Storm drain			to sanitary sewer
Egress							
	785	Paints Thinner	440 gal/yr				DPD0 ^b
Fuel Systems	788	PD 680 JP-4	60 gal/yr	Storm drain		o/w separator to sanitary sewer	
					Taken to aircraft washracks		
Phase Docks/Wheel & Tire	718	Paint Stripper PD 680 Hydraulic fluid	660 gal/yr 660 gal/yr 440 gal/yr		Fire dept. ^a		DPD0 ^b
		JP-4	440 gal/yr		Fire dept. ^a	Fuels management branch ^d	

^aWastes placed in 55-gallon drums and taken to the fire department training areas for use in fire training exercises.

^bDPD0 = Defense Property Disposal Office; previously designated Redistribution and Marketing or Salvage. Wastes placed in 55-gallon drums and taken to central storage yard for resale, recycle, or disposal.

^cIncludes washwater.

^d5,000-gallon underground contaminated fuel tank operated by Fuels Management Branch and located near Building No. 788; fuel is reclaimed.

Table 10
SUMMARY OF DISPOSAL SITE RATINGS

Site No.	Site Description	Subscore (% of Maximum Possible Score in Each Category)			Overall Score	Page Reference of Site Rating Form
		Receptors	Pathways	Characteristics		
1	Burma Road Landfill	60	63	24	49	J-1
2	Northwest Landfill	54	56	24	45	J-3
3	Southwest Landfill	64	63	40	56	J-5
4	Northeast Landfill	55	61	30	49	J-7
5	DDT Burial Site	55	54	60	53	J-9
6	Burma Road Fire Department Training Area	60	63	32	52	J-11
7	Existing Fire Department Training Area	44	61	48	51	J-13
8	Lily Pad Pond Fill Site	48	80	40	56	J-15
12	North POL Tank Farm	52	80	32	55	J-17

DATA FROM WAR PHASE II, STAGE 1 STUDY

Table 4-2. Results of Analyses of Environmental Samples Collected in the Vicinity of the Southwest Landfill, Moody AFB, Georgia, April and September 1984

Constituent (and units)	Well Locations					
	L-1	L-2	L-3	L-4	L-5	L-6
pH (S.U.) (April)	4.3	4.4	5.0	5.2	4.8	6.2
(September)	3.8	3.8	5.0	4.2	4.2	5.6
Specific conductance (April)	23	27	730	62	39	92
@ 25°C (umhos/cm) (September)	27	39	480	54	52	87
TOX (ug Cl/l) (April)	27	26	110	42	32	36
DOC (mg/l) (April)	<1.0	<1.0	<1.0	13.4	<1.0	<1.0
(September)	<0.5	<0.5	2.1	<0.5	<0.5	<0.5
COD (mg/l)	2.9	3.9	9.3	6.2	1.0	2.9
Oil and grease (mg/l) (April)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic (ug/l)	<2	<2	<2	<2	<2	<2
Barium (ug/l)	9	12	69	22	14	14
Cadmium (ug/l)	<6	<6	<6	<6	<6	<6
Chromium (ug/l)	<15	<15	<15	<15	<15	<15
Lead (ug/l)	<10	<10	<10	<10	<10	<10
Mercury (ug/l)	0.1	0.2	0.1	0.2	0.2	0.3
Selenium (ug/l)	<4	<4	<4	<4	<4	<4
Silver (ug/l)	<6	<6	<6	<6	<6	<6

Unless otherwise noted, samples collected in September 1984.

Table 4-3. Pesticide and Herbicide Concentrations in Samples Collected at the Southwest Landfill, Moody AFB, Georgia, September 1984

Constituent (and units)	Detection Limit	Well Locations					
		L-1	L-2	L-3	L-4	L-5	L-6
Heptachlor (ug/l)	0.005	BDL*	BDL	BDL	BDL	BDL	BDL
Heptachlor epoxide (ug/l)	0.005	BDL	BDL	BDL	BDL	BDL	BDL
Lindane (ug/l)	0.002	BDL	BDL	BDL	BDL	BDL	BDL
Chlordane (ug/l)	0.005	BDL	BDL	BDL	BDL	BDL	BDL
Toxaphene (ug/l)	0.01	BDL	BDL	BDL	BDL	BDL	BDL
Diazinon (ug/l)	0.005	BDL	BDL	BDL	BDL	BDL	BDL
Malathion (ug/l)	0.01	BDL	BDL	BDL	BDL	BDL	BDL
2,4-D (ug/l)	0.03	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-T (ug/l)	0.02	BDL	BDL	BDL	BDL	BDL	BDL
DDT-R (ug/l)†	0.03	BDL	BDL	BDL	BDL	BDL	BDL

*BDL = Below detection limit.

†DDT-R represents the total of the following six isomers: o,p DDE; p,p DDE; o,p DDD; p,p DDD; o,p DDT; and p,p DDT. Detection limit (0.02 ug/l) is for each isomer.

Table 4-4. Concentrations of Volatile Organic Compounds Found in Samples Collected at the Southwest Landfill, Moody AFB, Georgia, September 1984

Compound	Detection Limit*	Well Locations	
		L-3	L-6
METHOD 601			
Bromodichloromethane	1.0	BDL†	BDL
Bromoform	1.0	BDL	BDL
Bromomethane	1.0	BDL	BDL
Carbon tetrachloride	1.0	BDL	BDL
Chlorobenzene	1.0	9.2	BDL
Chloroethane	1.0	BDL	BDL
2-Chloroethylvinyl ether	1.0	BDL	BDL
Chloroform	1.0	BDL	BDL
Chloromethane	1.0	BDL	BDL
Dibromochloromethane	1.0	BDL	BDL
1,2-Dichlorobenzene	1.0	BDL	BDL
1,3-Dichlorobenzene	1.0	BDL	BDL
1,4-Dichlorobenzene	1.0	8.8	BDL
Dichlorodifluoromethane	1.0	BDL	BDL
1,1-Dichloroethane	1.0	BDL	BDL
1,2-Dichloroethane	0.1	BDL	BDL
Trans-1,2-Dichloroethene	1.0	BDL	BDL
1,2-Dichloropropane	1.0	BDL	BDL
Cis-1,3-Dichloropropene	1.0	BDL	BDL
Trans-1,3-Dichloropropene	1.0	BDL	BDL
Methylene chloride	1.0	BDL	BDL
1,1,2,2-Tetrachloroethane	1.0	BDL	BDL
Tetrachloroethene	1.0	BDL	BDL
1,1,1-Trichloroethane	1.0	BDL	BDL
1,1,2-Trichloroethane	1.0	BDL	BDL
Trichloroethene	1.0	2.1	BDL
Trichlorofluoromethane	1.0	BDL	BDL
Vinyl chloride	1.0	BDL	BDL
METHOD 602			
Benzene	0.5	3.7	BDL
Ethyl benzene	1.0	BDL	BDL
Toluene	1.0	BDL	BDL
Xylenes	1.0	BDL	BDL

*All values in ug/l.

†BDL = Below detection limit.

Table 4-11. Results of Analyses of Environmental Samples Collected from Existing Wells, Moody AFB, Georgia, April and September 1984

Constituent (all units)	Well Locations											
	MAFB-1	MAFB-2	MAFB-3	MAFB-4	MAFB-5	MAFB-5a	MAFB-6	MAFB-7	MAFB-8	MAFB-10	MAFB-12	MAFB-13
pH (S.U.) (April)	7.8	7.0	7.2	7.3	7.3	6.6	7.2	7.1	7.4	6.5	7.6	7.8
(September)	7.2	7.2	7.2	7.3	6.9	7.2	7.7	7.4	7.4	6.7	7.2	7.4
Specific conductance (April)	230	230	260	250	220	180	210	230	240	110	230	240
@ 25°C (umhos/cm) (September)	240	240	260	290	200	240	240	250	230	100	250	250
TOX (ug Cl/l) (April)	25	23	48	45	35	28	32	120	50	94	30	29
DOC (mg/l)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.9	<1.0	<1.0
Oil and grease (mg/l) (April)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic (ug/l)	<2	<2	<2	<2	<2	<2	<2	4	<2	<2	<2	<2
Barium (ug/l)	18	20	23	18	7	14	12	11	21	23	29	44
Cadmium (ug/l)	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
Chromium (ug/l)	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
Lead (ug/l)	<20	20	<20	20	20	20	<20	<20	<20	<20	<20	<20
Mercury (ug/l)	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<0.1	0.1	0.1
Selenium (ug/l)	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver (ug/l)	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6

Unless otherwise noted, samples collected in September 1984.

Table 4-12. Pesticide and Herbicide Concentrations in Samples Collected from Existing Wells at Moody AFB, Georgia, September 1984

Constituent (and units)	Detection Limit	Well Locations		
		MAFB-4	MAFB-6	MAFB-8
Heptachlor (ug/l)	0.005	BDL*	BDL	BDL
Heptachlor epoxide (ug/l)	0.005	BDL	BDL	BDL
Lindane (ug/l)	0.002	BDL	BDL	BDL
Chlordane (ug/l)	0.005	BDL	BDL	BDL
Toxaphene (ug/l)	0.010	BDL	BDL	BDL
Diazinon (ug/l)	0.005	BDL	BDL	BDL
Malathion (ug/l)	0.010	BDL	BDL	BDL
2,4-D (ug/l)	0.03	BDL	BDL	BDL
2,4,5-T (ug/l)	0.02	BDL	BDL	BDL
DDT-R†	0.03	BDL	BDL	BDL

*BDL = Below detection limit.

†DDT-R represents the total of the following six isomers: o,p DDE; p,p DDE; o,p DDD; p,p DDD; o,p DDT; and p,p DDT.

Table 4-13. Static Water Levels and Surveyed Well Head Elevations for Each Well at the Southwest Landfill, Moody AFB, Georgia, April and September 1984

Well	Well Head Elevation (ft msl*)	April		September	
		Depth to Water (ft)	Elevation of Water Surface (ft msl)	Depth to Water (ft)	Elevation of Water Surface (ft msl)
L-1	218.39	5.00	213.4	9.48	208.9
L-2	222.85	7.12	215.7	11.33	211.5
L-3	218.60	5.04	213.6	7.17	211.4
L-4	222.29	5.75	216.4	10.33	212.0
L-5	227.53	9.17	218.4	14.38	213.2
L-6	237.47	5.81	231.7	14.02	223.4

*Mean sea level.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-1Sample Location Description: SW LANDFILL (SITE 1) - EAST SIDE OF
FILL, APPROX. 100 YD. FROM PERIMETER RD.Sampled by: RDB/SJCDate: 4/24/84Time: 1000

Site Completion

Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	X
X	X	X	X	X	X
X	X		X		
X	X		X		X
		X			
		X			
				X	
				X	
(X)	X	X		X	X
(X)	X	X		X	
(X)	X	X		X	
(X)	X	X		X	
	X	X		X*	
(X)	X	X		X	
(X)				X	
(X)				X	
			X		
		X		X	
				X	

IN SITU MEASUREMENTS

pH 4.3
 Specific conductance 20 umho/cm @ 18 23 @ 25 °C
 Depth to water surface from casing top 5' 0"
 Volume of water purged prior to sampling 18 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
(X) 4 oz. plastic	DOC	Filter, HCl, 4°C	28	<u>T2</u>	<u>1563</u>
(X) 40 ml. vials (2)	TOX	4°C	14	<u>X1 X2</u>	
(X) 4 oz. plastic	COO	H ₂ SO ₄ , 4°C	28	<u>D3</u>	
(X) 1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	<u>G26</u>	
	Phenols	H ₂ SO ₄ , 4°C	28		
	VOA	4°C	14		
(X) 1 qt. glass	Metals (8)	Filter, HNO ₃	28**	<u>M28</u>	
	Lead	Filter, HNO ₃	180		
(X) 1 qt. glass/Tefl. Pesticides		4°C	40	<u>C17</u>	
(X) 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>H1</u>	
	DDT	4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling value location.

COMMENTS AND OBSERVATIONS

WELL RECHARGES SLOWLY, BAILED DRY @ 7,

⑦

*To be archived.

†Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

D-1

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-2

Sample Location Description: _____

Sampled by: RAB/SIC

Date: 4/24/84

Time: 1125

Site Completion Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area	Auger Holes	Potable Wells
(X)	X	X	X	X	X	X
(X)	X	X	X	X	X	X
(X)	X		X			X
(X)		X				
		X			X	
					X	
(X)	X	X		X	X	X
(X)	X	X				
(X)	X	X		X		
(X)	X	X				
	X	X			X*	
(X)	X	X			X	
				X		
(X)						
(X)						
			X			
				X		
		X				X

IN SITU MEASUREMENTS

pH 4.4
 Specific conductance 23 umho/cm @ 18 27 @ 25 °C
 Depth to water surface from casing top 7' 1 1/2"
 Volume of water purged prior to sampling 18 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
4 oz. plastic	DOC	Filter, HCl, 4°C	28	<u>T7</u>	<u>15638</u>
40 ml. vials (2)	TOX	4°C	14	<u>X3 X4</u>	<u>1</u>
4 oz. plastic	OOD	H ₂ SO ₄ , 4°C	28	<u>D18</u>	
1 qt. glass/Tefl.	Oil&Grease	H ₂ SO ₄ , 4°C	28	<u>G25</u>	
1 qt. glass/Tefl.	Phenols	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOA	4°C	14		
1 qt. glass	Metals (8)	Filter, HNO ₃	28**	<u>M14</u>	
1 qt. glass	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl.	Pesticides	4°C	40	<u>C3</u>	
1 qt. glass/Tefl.	Herbicides	HCl, 4°C	40	<u>H4</u>	<u>↓</u>
1 qt. glass/Tefl.	DDT	4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS WATER TURBID, MILKY ORANGE, NO ODOR.

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-3Sample Location Description: SITE 1 - SW LANDFILLNORTHERN SIDE OF FILL EDGE OF SWAMPSampled by: ROB/SJCDate: 4/24/84Time: 1045Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DDT Area Wells	PCL Area Auger Holes	Potable Wells
(X)	X	X	X	X	X
(X)	X	X	X	X	X
(X)	X		X		
(X)	X		X		X
		X			
		X			
				X	
				X	
(X)	X	X		X	X
(X)	X	X			X
(X)	X	X		X	
(X)	X	X		X	X
	X	X			
(X)	X	X		X*	
(X)	X	X		X	
(X)					
(X)					
			X		
				X	
		X			X

IN SITU MEASUREMENTS

pH 5.0
 Specific conductance 700 $\mu\text{mho/cm}$ @ 23.0 728 @ 25 °C
 Depth to water surface from casing top 5' 1/2"
 Volume of water purged prior to sampling 18 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
4 oz. plastic	DOC	Filter, HCl, 4°C	28	<u>T1</u>	<u>1563</u>
40 ml. vials (2)	TOX	4°C	14	<u>X5 X6</u>	
4 oz. plastic	COD	H ₂ SO ₄ , 4°C	28	<u>D11</u>	
1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	<u>G33</u>	
1 qt. glass/Tefl. Phenols		H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOA	4°C	14		
1 qt. glass	Metals (8)	Filter, HNO ₃	28**	<u>M8</u>	
1 qt. glass	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	<u>C9</u>	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>H6</u>	<u>✓</u>
1 qt. glass/Tefl. DDT		4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS WATER VERY TURBID, R.T. ORANGE FOR 90 gal.
THEN IMPROVED TO MILKY ORANGE, NO ODOR.

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-4

Sample Location Description: SITE 1, SW LANDFILL -

Sampled by: ROB/SJC

Date: 4/24/84

Time: 0905

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	X
(X)	X	X	X	X	X
(X)	X		X		
X	X		X		X
		X			
		X			
				X	
				X	
(X)	X	X		X	X
(X)	X	X			X
(X)	X	X		X	
(X)	X	X		X	X
	X	X		X*	
(X)	X	X			X
(X)				X	
(X)				X	
			X		
		X		X	
					X

IN SITU MEASUREMENTS

pH 5.2
 Specific conductance 54 umho/cm @ 18.0 62.0 25 °C
 Depth to water surface from casing top 5'9"
 Volume of water purged prior to sampling _____
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
(X) 4 oz. plastic	DOC	Filter, HCl, 4°C	28	<u>T20,19</u>	<u>15640</u>
(X) 40 ml. vials (2)	TOX	4°C X13-16	14	<u>X11,X12</u>	
(X) 4 oz. plastic	COO	H ₂ SO ₄ , 4°C	28	<u>D8,13</u>	
(X) 1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	<u>G27,31</u>	
	Phenols	H ₂ SO ₄ , 4°C	28		
	VQA	4°C	14		
(X) 1 qt. glass	Metals (8)	Filter, HNO ₃	M18 28**	<u>M10,15</u>	
	Lead	Filter, HNO ₃	180		
(X) 1 qt. glass/Tefl. Pesticides		4°C	C14 40	<u>C6,8,2</u>	
(X) 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>H5,8,11</u>	↓
	DOT	4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS CONDITIONS SAME AS L-85

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

* SEE Q.C. FIELD SHEETS FOR

ADDITIONAL SAMPLE NOS.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-4Sample Location Description: Q.C.

Sampled by: _____

Date: _____

Time: _____

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	X
X	X	X	X	X	X
X	X		X		X
X	X		X		X
		X			
		X			
				X	
				X	
X	X	X		X	X
X	X	X		X	X
X	X	X		X	X
X	X	X		X	X
		X		X*	
X	X	X		X	X
X				X	X
			X		
		X		X	
					X

IN SITU MEASUREMENTS

pH _____
 Specific conductance _____ umho/cm @ _____ °C
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling _____
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
X 4 oz. plastic	DOC	Filter, HCl, 4°C	28	T19	156
X 40 ml. vials (2)	TOX	4°C	14	X13 X14	
X 4 oz. plastic	COO	H ₂ SO ₄ , 4°C	28	D13	
X 1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	G31	
	Phenols	H ₂ SO ₄ , 4°C	28	M15	
	40 ml. vials (4)	VOA	4°C		
X 1 qt. glass	Metals (8)	Filter, HNO ₃	28**	M15	
	Lead	Filter, HNO ₃	180		
X 1 qt. glass/Tefl. Pesticides		4°C	40	C8	✓
X 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	H8	✓
	DOT	4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling value location.

COMMENTS AND OBSERVATIONS

15671 - Herbicide (H8) VOL. 875 mL
 SPIKED WITH 1 mL OF S132-D (2,4,5-T)
 15671 - Pesticide (C8) VOL. 950 mL
 SPIKED WITH 0.2 mL OF S163-C (Malathion)

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-4Sample Location Description: Q.C.

Sampled by: _____ Date: _____ Time: _____

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	X
X	X	X	X	X	X
X	X		X		
X	X		X		X
		X			
		X			
				X	
				X	
X	X	X		X	X
X	X	X		X	X
X	X	X		X	X
X	X	X		X	X
	X	X		X*	
X	X	X		X	X
				X	
X				X	X
			X		
		X		X	
				X	

IN SITU MEASUREMENTS

pH _____
 Specific conductance _____ umho/cm @ _____ °C
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling _____
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
X 4 oz. plastic	DOC	Filter, HCl, 4°C	28		15675
X 40 ml. vials (2)	TOX	4°C	14	X15, X16	
X 4 oz. plastic	OOD	H ₂ SO ₄ , 4°C	28		
X 1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28		
X 1 qt. glass/Tefl. Phenols		H ₂ SO ₄ , 4°C	28		
X 40 ml. vials (4)	VOA	4°C	14		
X 1 qt. glass	Metals (8)	Filter, HNO ₃	28**	M18	
X 1 qt. glass	Lead	Filter, HNO ₃	180		
X 1 qt. glass/Tefl. Pesticides		4°C	40	C2, H11	
X 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	CH	15679
X 1 qt. glass/Tefl. DDT		4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling value location.

COMMENTS AND OBSERVATIONS

15679 - VOL. 950 mL
 SPIKED WITH 1 mL 5053-D2 (TOXAPHENE)
 15675 - VOL. 810 mL (M-18)
 SPIKED WITH 2 mL OF COMBINED METAL SOLN.
 15675 - VOL. 40 mL EACH (X15, 16)
 SPIKE WITH 50 µL OF S161-C2

*To be archived.

†Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-5Sample Location Description: SITE 1, SW LANDFILL -Sampled by: RDS/SJCDate: 4/24/84Time: 0830Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Forable Wells
☒	X	X	X	X	X
☒	X	X	X	X	X
☒	X		X		
☒	X		X		X
		X			
		X			
				X	
				X	
☒	X	X		X	X
☒	X	X			X
☒	X	X		X	
☒	X	X		X	X
	X	X			
☒	X	X		X*	X
				X	
☒					X†
☒					X†
			X		
				X	
		X			X

IN SITU MEASUREMENTS

pH 4.8
 Specific conductance 35 umho/cm @ 20 39 @ 25
 Depth to water surface from casing top 9' 2"
 Volume of water purged prior to sampling 17 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	S
4 oz. plastic	DOC	Filter, HCl, 4°C	28	<u>T27</u>	<u>15</u>
40 ml. vials (2)	TOX	4°C	14	<u>X7 X8</u>	—
4 oz. plastic	COO	H ₂ SO ₄ , 4°C	28	<u>D21</u>	—
1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	<u>G28</u>	—
1 qt. glass/Tefl. Phenols		H ₂ SO ₄ , 4°C	28	—	—
40 ml. vials (4)	VOA	4°C	14	—	—
1 qt. glass	Metals (8)	Filter, HNO ₃	28**	<u>M19</u>	—
1 qt. glass	Lead	Filter, HNO ₃	180	—	—
1 qt. glass/Tefl. Pesticides		4°C	40	<u>C7</u>	—
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>H3</u>	—
1 qt. glass/Tefl. DDT		4°C	40	—	—

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS WATER VERY TURBID, BRT. ORANGE, NO O.

*To be archived.

†Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: L-6
 Sample Location Description: SITE 1, SW LANDFILL - WELL AT SW CORNER OF FILL IN BEND OF ROAD (SHOULDER)
 Sampled by: ROB/SJC Date: 4/24/84 Time: 0800

Site Completion Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area	Auger Holes	Potable Wells
(X)	X	X	X	X	X	X
X	X	X	X	X	X	X
(X)	X		X			
X	X		X		X	
		X				
		X			X	
					X	
(X)	X	X		X	X	
(X)	X	X				
(X)	X	X		X	X	
(X)	X	X		X	X	
	X	X				
(X)	X	X			X	
(X)						
(X)						
			X			
				X		
		X				
					X	

IN SITU MEASUREMENTS

pH 6.2
 Specific conductance 80 umho/cm @ 18 92 @ 25 °C
 Depth to water surface from casing top 5' 9 3/4"
 Volume of water purged prior to sampling 20 gal.
 Sample depth N/A
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No
(X) 4 oz. plastic	DOC	Filter, HCl, 4°C	28	<u>T10</u>	<u>156</u>
(X) 40 ml. vials (2)	TOX	4°C	14	<u>X9, X10</u>	
(X) 4 oz. plastic	COO	H ₂ SO ₄ , 4°C	28	<u>07</u>	
(X) 1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	<u>G29</u>	
	Phenols	H ₂ SO ₄ , 4°C	28		
	VOA	4°C	14		
(X) 1 qt. glass	Metals (8)	Filter, HNO ₃	28**	<u>M20</u>	
	Lead	Filter, HNO ₃	180		
(X) 1 qt. glass/Tefl. Pesticides		4°C	40	<u>C1</u>	
(X) 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>H2</u>	
	DOT	4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS WATER TURBID, MILKY PINK, NO ODOR.

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

D-8

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: MAFB-1

Sample Location Description: Main supply well No. 1 Bldg 913

Sampled by: WGT

Date: 4/24/64

Time: 1045-1155

Site Completion Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	(X)
X	X	X	X	X	(X)
X	X		X		(X)
X	X		X		(X)
		X			
		X			
				X	
				X	
X	X	X		X	(X)
X	X	X			(X)
X	X	X		X	(X)
X	X	X		X	(X)
	X	X			
X	X	X		X*	(X)
				X	
X					(X)
			X		
				X	
		X			(X)

IN SITU MEASUREMENTS

pH 7.8
 Specific conductance 227 umho/cm @ 24 231 @ 25
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling ~13,000 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)
X 4 oz. plastic	DOC	Filter, HCl, 4°C	28	T-13
X 40 ml. vials (2)	TOX	4°C	14	X-49, X-50
X 4 oz. plastic	OOD	H ₂ SO ₄ , 4°C	28	
X 1 qt. glass/Tefl. Oil & Grease		H ₂ SO ₄ , 4°C	28	G-10
1 qt. glass/Tefl. Phenols		H ₂ SO ₄ , 4°C	28	
40 ml. vials (4)	VOA	4°C	14	
X 1 qt. glass plastic Metals (8)	Filter, HNO ₃		28**	M-23
1 qt. glass plastic Lead	Filter, HNO ₃		180	
X 1 qt. glass/Tefl. Pesticides	4°C		40	
X 1 qt. glass/Tefl. Herbicides	HCl, 4°C		40	
1 qt. glass/Tefl. DDT	4°C		40	

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling ~~water~~ location.

COMMENTS AND OBSERVATIONS Sampled at hose 5.6 on main discharge line protruding from south wall of Bldg 913. Sample error in view

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: MAFB-2Sample Location Description: Main supply well No. 2, Bldg. 947Sampled by: W.G.T.Date: 4/24/84Time: 0403-Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	(X)
X	X	X	X	X	(X)
X	X		X		(X)
X	X		X		(X)
		X			
		X			
				X	
				X	
X	X	X		X	(X)
X	X	X		X	(X)
X	X	X		X	(X)
X	X	X		X	(X)
		X		X*	
X	X	X		X	(X)
X				X	
			X		
		X		X	

IN SITU MEASUREMENTS

pH 7.0
 Specific conductance 211 $\mu\text{mho/cm}$ @ 20.0 23° @ 25°C
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling ~12,000 gal ~ 7,000 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
X (X) 4 oz. plastic	DOC	Filter, HCl, 4°C	28	T-31	1566
X (X) 40 ml. vials (2)	TOX	4°C	14	X-37, X-38	
X 4 oz. plastic	COO	H ₂ SO ₄ , 4°C	28		
X (X) 1 qt. glass/Tefl. Oil & Grease		H ₂ SO ₄ , 4°C	28	G-14	
X 1 qt. glass/Tefl. Phenols		H ₂ SO ₄ , 4°C	28		
X* 40 ml. vials (4)	VOA	4°C	14		
X (X) 1 qt. glass/plastic Metals (8)	Filter, HNO ₃		28**	M-33	
X 1 qt. glass	Lead	Filter, HNO ₃	180		
X 1 qt. glass/Tefl. Pesticides		4°C	40		
X 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		
X 1 qt. glass/Tefl. DDT		4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 (X) Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampled at base bld 5 ft. from pump in main
discharge line

*To be archived.

Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: MAFB-3Sample Location Description: Main Supply Well No. 3, Bldg. 954Sampled by: WGTDate: 4-24/64Time: 1100Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	FOL Area Auger Holes	Potable Wells
X	X	X	X	X	(X)
X	X	X	X	X	(X)
X	X		X		(X)
X	X		X		(X)
		X			
		X			
				X	
				X	
X	X	X		X	(X)
X	X	X		X	(X)
X	X	X		X	(X)
X	X	X		X	(X)
	X	X		X*	
X	X	X		(X)	(X)
				X	
X				(X)	(X)
			X		
			X		
		X			(X)

IN SITU MEASUREMENTS

pH 7.2
 Specific conductance 250 umho/cm @ 22 265 @ 25°
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling 28,000 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	* Sam N
X 4 oz. plastic	DOC	Filter, HCl, 4°C	28	T-12, T-30	156
X 40 ml. vials (2)	TOX	4°C	14 *	X-53, X-54 X-67, X-68	
X 4 oz. plastic	COD	H ₂ SO ₄ , 4°C	28		
X 1 qt. glass/Tefl. Oil & Grease		H ₂ SO ₄ , 4°C	28	G-20, G-46	
X 1 qt. glass/Tefl. Phenols		H ₂ SO ₄ , 4°C	28		
X* 40 ml. vials (4)	VOA	4°C	14		
X 1 qt. glass	Metals (8)	Filter, HNO ₃	28**	M-30 M-12, M-21	✓
X 1 qt. glass	Lead	Filter, HNO ₃	180		
X 1 qt. glass/Tefl. Pesticides		4°C	40		
X 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		
X 1 qt. glass/Tefl. DOT		4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Place and record number of permanent location marker.
 Describe sampling value location.

COMMENTS AND OBSERVATIONS Sampled at base b.b. in main discharge line
just inside east wall of Bldg. 954

*To be archived.
 Wells No. MAFB-4, MAFB-6, and MAFB-8 only.
 **28 days for mercury, 6 months for other metals.

D-25

* X-51, X-52 also

** SEE FIELD Q.C. SHEETS
 ADDITIONAL SAMPLE NOS.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET

Sampling Site/Well No.: MAFB-3Sample Location Description: Q.C.

Sampled by: _____

Date: _____

Time: _____

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	DOT Area Wells	POL Area Auger Holes	Potable Wells
X	X	X	X	X	X
X	X	X	X	X	X
X	X		X		
X	X		X		X
		X			
		X			
				X	
				X	
X	X	X		X	X
X	X	X			X
X	X	X		X	
	X	X			
X	X	X		X*	
X	X	X		X	
X				X	
			X		
				X	
		X			
					X

IN SITU MEASUREMENTS

pH _____

Specific conductance _____ umho/cm @ _____ °C

Depth to water surface from casing top _____

Volume of water purged prior to sampling _____

Sample depth _____

Total water depth _____

Auger hole depth _____

Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
X 4 oz. plastic	DOC	Filter, HCl, 4°C	28	T30	1567
X 40 ml. vials (2)	TOX	4°C	14	X67, X68	
X 4 oz. plastic	COD	H ₂ SO ₄ , 4°C	28		
X 1 qt. glass/Tefl. Oil&Grease		H ₂ SO ₄ , 4°C	28	G40	
	Phenols	H ₂ SO ₄ , 4°C	28		
X* 40 ml. vials (4)	VQA	4°C	14		
X 1 qt. glass	Metals (8)	Filter, HNO ₃	28**	M12	Y
	Lead	Filter, HNO ₃	180		
X 1 qt. glass/Tefl. Pesticides		4°C	40		
X 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		
	DOT	4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.

Place and record number of permanent location marker.

Describe sampling value location.

COMMENTS AND OBSERVATIONS

*To be archived.

†Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

**28 days for mercury, 6 months for other metals.

MOODY AFB PHASE 11B FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-1

Sample Location Description: SW Landfill, east side of fill approximately 100 yds. from perimeter road (between landfill and Mission Lake)

Sampled by: DPC/TWR

Date: 6 SEP 84

Time: 0535-1302

Site Completion Checklist

NEED 15 gal

0958 1700/DRY

0948 1400/DRY

1020 1300/DRY

Landfill Wells	LPP Wells	LPP Surface Water	POL Area	Auger Holes	Potable Wells
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MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-2

Sample Location Description: SW Landfill, north of eastern portion of
landfill within 100 ft. of edge of fill.

Sampled by: DR Date: 6-5-84 Time: 1200-1230

used 14 gal.

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
☒	X	X	X	X
☒	X	X	X	X
☒	X			
☒	X	X		X
		X		
			X	
			X	
			X	
☒	X	X	X	
☒	X	X	X	
☒	X	X†		
☒	X	X		X
☒			X	
☒			X**	
☒			X**	
			X	
				X

IN SITU MEASUREMENTS

pH 3.5
Specific conductance 37 umho/cm @ (Temp = 18°C) 21.8 °C
Depth to water surface from casing top 11' 4"
Volume of water purged prior to sampling 14 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28	<u>XK311</u>	<u>16577</u>
1 pt. glass	COO	H ₂ SO ₄ , 4°C	28	<u>C27</u>	<u>1</u>
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>PU 5</u>	
2 qt. plastic	Lead	Filter, HNO ₃	180		
☒ 1 qt. glass/Tefl. Pesticides		4°C	40	<u>PE 9</u>	
☒ 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>HE 1</u>	<u>✓</u>

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS

no smell, fines settle quickly

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-3

Sample Location Description: SW Landfill north of western portion of fill; within 100 ft. from edge of fill; near edge of swamp

Sampled by: JWR

Date: 6 Sep

Time: 1200-1230

Site Completion
Checklist

Landfill Wells ↓	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
(X)	X	X	X	X
(X)	X	X	X	X
(X)	X			X
(X)		X		
(X)		X		
(X)			X	
(X)			X	
(X)			X	
(X)	X	X	X	
(X)	X	X	X	
(X)	X	X†		
(X)	X	X	X	
(X)			X**	
(X)			X**	
			X	
			X	

IN SITU MEASUREMENTS

pH 5.0
Specific conductance 465 umho/cm @ (10m = 20°C) 23 °C
Depth to water surface from casing top 7'2"
Volume of water purged prior to sampling 17 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	40°C 28	XX 655	16578
1 pt. glass	CO ₂	H ₂ SO ₄ , 4°C	28	C 31	
40 ml. vials (4)	VOC	4°C	14	V 2	
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	PU 4	
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	PE 2	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	HES	✓

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS

no smell, yellow to cream-colored fines, quickly settle.

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-3 QC (VOC duplicate)

Sample Location Description: sw Landfill north of western portion of fill; within 100 ft. of edge of fill near edge of swamp

Sampled by: JMF

Date: 6 Sep

Time: 1230

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	X
X	X	X	X	X
X	X			
X	X	X		X
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
(X*)	X	X†		
X	X	X		X
			X	
X				X**
X				X**
			X	
				X

IN SITU MEASUREMENTS

pH _____
Specific conductance _____ umho/cm @ _____ °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling _____
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	CO ₂	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14	V1	16565
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††		
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS

*Wells L-3 and L-6 only.
†Locations LPP-SW1 and LPP-SW2 only.
**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.
††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-4

Sample Location Description: SW Landfill, south of eastern portion of fill on north side of perimeter road

Sampled by: DP/WR

Date: 6 SEP 84

Time: 0915-0925

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area	Auger Holes	Potable Wells
	X	X		X	X
	X	X		X	X
					
					
					
					
					
					
					
					
					
					
					
					
					

4/5-7/84 Field Trip

Time: 0845-0925

Checklist

(2)

IN SITU MEASUREMENTS

pH _____

Specific conductance _____ umho/cm @ _____ °C

Depth to water surface from casing top _____

Volume of water purged prior to sampling _____

Sample depth _____

Total water depth _____

Auger hole depth _____

Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H_2SO_4	4°C 28	XX674	16566
1 pt. glass	OOD	H_2SO_4 , 4°C	28	C32	
40 ml. vials (4)	VOC	4°C	14	~~PE2/PE1~~	
2 qt. plastic	Metals (8)	Filter, HNO_3 (2)	28+1	PU2/PU1	
~~2 qt. plastic~~	~~Lead~~	~~Filter, HNO_3 (2)~~	~~140~~	~~PE4~~	
1 qt. glass/Tefl. Pesticides		4°C (3 QC samp.)	40	PE7/PES	
1 qt. glass/Tefl. Herbicides		HCl, 4°C (2 QC samp.)	40	HE4/HE2	

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

****Wells No. MAFB-4, MAFB-6, and MAFB-8 only.**

1128 days for mercury, 6 months for other metals.

MOODY AFB PHASE 11B FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-5

Sample Location Description: sw landfill, south of central portion of fill on south side of perimeter road

Sampled by: DPC/jwr

Date: 6 Sep 84

Time: 0930 0955

Site Completion
Checklist

need 11 gal.

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
(X)	X	X	X	X
(X)	X	X	X	X
(X)	X			
(X)	X	X		X
		X		
			X	
			X	
			X	
(X)	X	X	X	
(X)	X	X	X	
(X)	X	X		X
(X)	X	X	X	
(X)			X**	
(X)			X**	
			X	
			X	

IN SITU MEASUREMENTS

pH 4.2
Specific conductance 48 umho/cm @ (Thermo = 21°) 21 °C
Depth to water surface from casing top 14' 4 1/2"
Volume of water purged prior to sampling 11 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	40C 28	~~734~~ X 734	16580
1 pt. glass	ODD	H ₂ SO ₄ , 4°C	28	C 30	
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	P 45	
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	PE 12	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	HE 7	✓

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS: much yellowish flz - quickly settles - no smell.

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: L-6

Sample Location Description: SW Landfill upgradient well; at SW corner of fill on SW side of bend in perimeter road

Sampled by: DRC/gwr

Date: 6 Sep 84

Time: 1600

Site Completion
Checklist

need 11 gal

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
(X)	X	X	X	X
(X)	X	X	X	X
(X)	X			
(X)	X	X		X
		X		
			X	
			X	
			X	
(X)	X	X	X	
(X)	X	X	X	
(X)	X	X†		
(X)	X	X	X	
			X	
(X)			X**	
(X)			X**	
			X	
				X

IN SITU MEASUREMENTS

pH 5.6
Specific conductance 82 umho/cm @ (T_{temp} = 22°) 21.8 °C
Depth to water surface from casing top 14' 1/4"
Volume of water purged prior to sampling 11 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	40C 28	<u>XX684</u>	<u>16581</u>
1 pt. glass	CO ₂	H ₂ SO ₄ , 4°C	28	<u>C 26</u>	
40 ml. vials (4)	VOC	4°C	14	<u>V4</u>	
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>P46</u>	
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	<u>PE-3</u>	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>HE-8</u>	<u>✓</u>

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS no smell, dirty cream colored fines, quickly settle

*Wells L-3 and L-6 only.

†Locations LPP-5W1 and LPP-5W2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB - 1

Sample Location Description: Potable Well No. 1, Main System Bldg. 913

Sampled by: WGT / DPC

Date: 9/5/84

Time: 1630

Site Completion
Checklist

Lamfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X	X	X	(X)
X	X	X	X	(X)
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†	X	
X	X	X	(X)	
			X	
X			X*	
X			X*	
			X	(X)

IN SITU MEASUREMENTS

pH 7.25

Specific conductance 225 umho/cm @ (21.5 °C) SCT: 22 °C

Depth to water surface from casing top

Volume of water purged prior to sampling ~ 14,000 gal.

Sample depth

Total water depth

Auger hole depth

Depth to water in auger hole

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	CO ₂	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>FL102</u>	<u>16594</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl.	Pesticides	4°C	40		
1 qt. glass/Tefl.	Herbicides	HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling valve located ~ 5 feet outside south wall of Bldg 913 in main discharge line

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-1 - QC

Sample Location Description: Potable Well No. 1, Main System, Bldg. 913

Sampled by: WGT/DPC

Date: 9/5/84

Time: 1630

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
		X	X	
		X	X	
			X	
X	X	X	X	X
X	X	X	X	X
X*	X	X†		
X	X	X	(X)	
			X	
X			X*	
X			X*	
			X	

IN SITU MEASUREMENTS

pH _____
Specific conductance _____ umho/cm @ _____ °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling _____
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	CO ₂	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14	16573	
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	(HX-21) (FL-114)	
2 qt. plastic	Lead	Filter, HNO ₃	180	16574	
1 qt. glass/Tefl.	Pesticides	4°C	40		
1 qt. glass/Tefl.	Herbicides	HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-2

Sample Location Description: Potable Well No. 2, Main System, Bldg. 946

Sampled by: WGT/DPG Date: 9/5/84 Time: 1604

Site Completion Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area	Auger Holes	Potable Wells
X X X X X	X X X X	X X X	X X X X	X X	(X) (X)
X X X*	X X X	X X X	X X	X	(X)
X X			X		X*
X			X		X*
					(X)

IN SITU MEASUREMENTS

pH 7.2
Specific conductance 234 umho/cm @ (22-therm) SCT: 23 °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling ~~55,500~~ gal. ~ 61,100 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

<u>Container Description</u>	<u>Parameters to be Analyzed</u>	<u>Preservation Method</u>	<u>Holding Time (d)</u>	<u>Container No(s)</u>	<u>Sample No.</u>
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	COD	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	FL100	16595
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling valve in main discharge line, 5 feet
downstream from pump inside Bldg. 946. Strong sulfur odor.

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

*Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

1126 days for mercury, 6 months for other metals.

MXDY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-3

Sample Location Description: Potable Well No. 3, Main System, Bldg. 984

Sampled by: WGT / DPC

Date: 9/5/84

Time: 1620

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			(X)
X	X	X		
		X		
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X		(X)
			X	
X				X*
X				X*
			X	(X)

IN SITU MEASUREMENTS

pH 7.2
 Specific conductance 250 umho/cm @ (22-mem) SCT: 23 °C
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling ~12,600 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	COO	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>FL116</u>	<u>16596</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling valve located just outside west wall
of Bldg. 984. Surface odor

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-4

Sample Location Description: _____

Sampled by: WGT

Date: 9/7/84

Time: 1425

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			(X)
X	X	X		
		X		
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X	(X)	
			X	
X			(X*)	
X			(X**)	
			X	(X)

IN SITU MEASUREMENTS

pH 7.3
Specific conductance 285 umho/cm @ 56.24.5°C
Depth to water surface from casing top _____
Volume of water purged prior to sampling ~ 16,500 gal.
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	COD	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>HX-10</u>	<u>16597</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	<u>PE-10</u>	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>HE-101</u>	

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS No strong odors. Sampled directly from 4-inch
line in access pit beside well, 6ft. from pump

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-5

Sample Location Description: Bldg. 1114 - Ordnance Area; fire protection well

Sampled by: WGT/DPC

Date: 9/5/84

Time: 1110

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area	Auger Holes	Potable Wells
X	X	X		X	(X)
X	X	X		X	(X)
X	X				
X	X	X			(X)
		X			
		X			
				X	
				X	
				X	
X	X	X		X	
X	X	X		X	
X*	X	X†			
X	X	X		(X)	
			X		
X				X†	
X				X†	
			X		(X)

IN SITU MEASUREMENTS

pH 6.9
Specific conductance 190 $\mu\text{mho/cm}$ @ (21-in. therm.) SCT: 22 °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling ~3006 gal + ~2,160 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H_2SO_4	4°C 28		
1 pt. glass	COO	H_2SO_4 , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO_3	28††	FL 115	16598
2 qt. plastic	Lead	Filter, HNO_3	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling valve located ~3 feet downstream from well head pump, ahead of chlorine feed and pressure tank

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE 11B FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-5A

Sample Location Description: Ordinance Area potable well 40 feet west of Bldg. 1114 (Bldg. 1112)

Sampled by: WGT/OPC

Date: 9/5/84

Time: 1543

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			
X	X	X		(X)
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X	(X)	
			X	
X			X**	
X			X**	
			X	(X)

IN SITU MEASUREMENTS

pH 7.2

Specific conductance 222 $\mu\text{mho/cm}$ @ (21.5-mm) SCT: 22 °C

Depth to water surface from casing top _____

Volume of water purged prior to sampling ~1800 gal.

Sample depth _____

Total water depth _____

Auger hole depth _____

Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H_2SO_4	4°C 28		
1 pt. glass	COO	H_2SO_4 , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO_3	28††	<u>FL 118</u>	<u>16599</u>
2 qt. plastic	Lead	Filter, HNO_3	180		
1 qt. glass/Tefl. Pesticides		4°C	40	<u>FL 118</u>	
1 qt. glass/Tefl. Herbicides		HCl , 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampled at valve in 6-inch main immediately outside west wall of Bldg 1112

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE 11B FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-6

Sample Location Description: _____

Sampled by: WGT

Date: 9/7/84

Time: 1045

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			(X)
X	X	X		
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X	(X)	
			X	
X			(X)*	
X			(X)*	
			X	(X)

IN SITU MEASUREMENTS

pH 7.7
Specific conductance 228 umho/cm @ SCF: 22 °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling ~ 2090 gal.
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	COD	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>PU-17</u>	<u>16600</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	<u>PE-102</u>	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>HE-10</u>	✓

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampled from valve at bottom of pressure tank.
Water comes directly off well; does not pass through tank

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

††Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MIDDY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-7

Sample Location Description: Bldg 1705 - Mission Lake - Potable well

Sampled by: WGT, DPC

Date: 9/5/84

Time: 1127

Site Completion
Checklist

Lanfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			
X	X	X		(X)
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X	(X)	
			X	
X			X	
X			X	

IN SITU MEASUREMENTS

pH 7.4
 Specific conductance 234 umho/cm @ (21 therm.) SCT: 21.8 °C
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling ~435 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	4°C 28		
1 pt. glass	COO	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>FL 117</u>	<u>16601</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling tap located at well head

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE IIB FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-8

Sample Location Description: _____

Sampled by: WGT

Date: 9/7/84

Time: 1110

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	(X)	(X)
X	X	X	(X)	(X)
X	X	X	(X)	(X)
X	X	X	(X)	(X)
		X	X	
		X	X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X	(X)	
			X	
X			(X)	
X			(X)	
			X	

IN SITU MEASUREMENTS

pH 7.4
Specific conductance 225 umho/cm @ _____ SCT: 23 °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling ~16,500 gal
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESEKAVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	40C 28		
1 pt. glass	ODD	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>P4-20</u>	<u>16602</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40	<u>PE-101</u>	
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40	<u>HE-11</u>	

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Water has sulfur odor. Sampled at end of
discharge pipe to lake

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MOODY AFB PHASE 11B FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-10

Sample Location Description: Back-up well at Grassy Pond, 15" casing diameter

Sampled by: WGT/PPC

Date: 9/5/84

Time: 1247

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			
X	X	X		(X)
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X	(X)	
			X	
X			X**	
X			X**	
			X	(X)

IN SITU MEASUREMENTS

pH 6.7
Specific conductance 103 umho/cm @ (23. therm.) SCT: 24 °C
Depth to water surface from casing top _____
Volume of water purged prior to sampling ~80 gal.
Sample depth _____
Total water depth _____
Auger hole depth _____
Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
X 2 oz. plastic	DOC	Filter, H ₂ SO ₄	40C 28		
X 1 pt. glass	CO ₂	H ₂ SO ₄ , 4°C	28		
X* 40 ml. vials (4)	VOC	4°C	14		
X 2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>FL104</u>	<u>16603</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
X 1 qt. glass/Tefl. Pesticides		4°C	40		
X 1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampled from 1-inch valve at well head, ahead
of chlorinator feed. Pressure tank is ahead (downstream) of sampling
location

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

MIXIDY AFB PHASE 11B FIELD SAMPLE SHEET
9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-12

Sample Location Description: Transmitter site potable well (Bldg. 1500)

Sampled by: WGT/OPC

Date: 9/5/84

Time: 1504

Site Completion
Checklist

Landfill Wells	LPP Wells	LPP Surface Water	POL Area Auger Holes	Potable Wells
X	X	X	X	(X)
X	X	X	X	(X)
X	X			
X	X	X		(X)
		X		
			X	
			X	
			X	
X	X	X	X	
X	X	X	X	
X*	X	X†		
X	X	X		(X)
			X	
X			X	X
X			X	X

IN SITU MEASUREMENTS

pH 7.2
 Specific conductance 235 umho/cm @ SC T: 22.5 °C
 Depth to water surface from casing top _____
 Volume of water purged prior to sampling ~ 2080 gal.
 Sample depth _____
 Total water depth _____
 Auger hole depth _____
 Depth to water in auger hole _____

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H ₂ SO ₄	40C 28		
1 pt. glass	COO	H ₂ SO ₄ , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO ₃	28††	<u>H X 3</u>	<u>16604</u>
2 qt. plastic	Lead	Filter, HNO ₃	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.
 Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling valve located at bottom of pressure tank. Slight sulfur odor. Pressure tank is approx. 100 gallon capacity. Sampling location is downstream of pressure tank

*Wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

**Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

††28 days for mercury, 6 months for other metals.

9/5-7/84 Field Trip

Sampling Site/Well No.: MAFB-13

Sample Location Description: Receiver site potable well (Bldg. 1501)

Sampled by: WGT/DPC

Date: 9/5/84

Time: 1521

Site Completion Checklist

	Landfill Wells	LPP Wells	LPP Surface Water	POL Area	Auger Holes	Potable Wells
X	X	X	X		X	(X)
X	X	X	X		X	(X)
X	X	X	X		X	(X)
X	X	X	X		X	(X)
X	X	X	X		X	(X)
X*	X	X	X†		X	(X)
X	X	X	X		X	X** X**
X	X	X	X		X	(X)

IN SITU MEASUREMENTS

pH 7.4

Specific conductance 236 $\mu\text{mho/cm}$ @ SCT: 22 °C

Depth to water surface from casing top

Volume of water purged prior to sampling ~ 2220 gal.

Sample depth

Total water depth

Auger hole depth

Depth to water in auger hole

SAMPLE COLLECTION AND PRESERVATION

Container Description	Parameters to be Analyzed	Preservation Method	Holding Time (d)	Container No(s)	Sample No.
2 oz. plastic	DOC	Filter, H_2SO_4	4°C 28		
1 pt. glass	COD	H_2SO_4 , 4°C	28		
40 ml. vials (4)	VOC	4°C	14		
2 qt. plastic	Metals (8)	Filter, HNO_3	28††	FL 108	16605
2 qt. plastic	Lead	Filter, HNO_3	180		
1 qt. glass/Tefl. Pesticides		4°C	40		
1 qt. glass/Tefl. Herbicides		HCl, 4°C	40		

MISCELLANEOUS

Record observations of fuel contamination in soil.

Describe sampling valve location.

COMMENTS AND OBSERVATIONS Sampling valve located at bottom of pressure tank.
Slight sulfur odor. Pressure tank capacity is approx. 100 gal. Sampling
location is downstream of pressure tank.

*wells L-3 and L-6 only.

†Locations LPP-SW1 and LPP-SW2 only.

*Wells No. MAFB-4, MAFB-6, and MAFB-8 only.

↑↑26 days for mercury, 6 months for other metals.

APPENDIX E
SAMPLING AND ANALYTICAL PROCEDURES

E-1.0 ANALYTICAL QUALITY CONTROL

All field sampling and quality control spiking were performed by WAR. All sample analyses, with the exception of TOX, were performed by TSI. TOX analyses were performed by UBTL. Each of the above organizations maintains a strict quality assurance/quality control (QA/QC) plan which is outlined in a detailed document. These QA/QC documents were not appended in this report due to their length. This appendix outlines QA/QC procedures directly relevant to the Moody AFB Phase II Stage I survey.

Accuracy of analytical techniques is assured by strict adherence to the methods listed in Table E-1. Integrity and representativeness of the sample is assured by sampling procedures described in Section E-2.0. A check on analytical quality control is provided for by duplicating a minimum of 10 percent of the samples in each analysis lot. Additional samples were collected to provide for spiking 10 percent of total phenolics and metals samples. Samples for DOC, COD, oil and grease, VOA, and VOH were not spiked. Duplicate and spike samples were labeled in such a way that the analytical laboratory could not identify them. Duplicate values were averaged to obtain a best estimate of actual concentration. When results were below detection limits, a quantity equal to one-half the detection limit (i.e., an average between the detection limit and zero) was used to numerically represent the below-detection-limit result. Results of duplicate and spike analyses are shown in Tables E-2 and E-3.

E-2.0 SAMPLING INSTRUCTIONS FOR MOODY AFB

Descriptions of sample containers, preservation methods, and holding times are given in Table E-4. Sampling procedures are outlined below for each analysis group.

Table E-1. Analytical Chemistry Methods for Water Samples, Moody AFB, Georgia

Parameter	Method	Detection Limit
pH*	EPA 150.1	—
Specific conductance*	EPA 120.1	—
Temperature*	EPA 170.1	—
Organic carbon	EPA 415.1	1 mg/l
TOK	EPA 9020†	10
Oil and grease	EPA 413.2	0.5 mg/l
Total phenolics	EPA 420.1	1
Pesticides	EPA 606H	**
Herbicides	EPA(CEI)††	**
Arsenic	EPA 200.7***	2
Barium	EPA 200.7	2
Cadmium	EPA 200.7	3
Chromium	EPA 200.7	6
Lead	EPA 200.7	20
Mercury	EPA 245.1	0.1
Selenium	EPA 200.7***	2
Silver	EPA 200.7	3

*Performed at the time of sample collection.

†EPA = EPA "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 2nd Edition, 1982.

**See Table 4-4 for detection limits.

††EPA(CEI)-Method as given in EPA Document, "Methods for Organochlorine Pesticides and Chlorophenoxy Acid Herbicides in Drinking Water and Raw Source Water"

***Hydride modification.

All detection limits are in ug/l units except where noted.

Note: EPA = U.S. EPA "Methods for Chemical Analysis of Water and Wastes," March 1979—
Method Number.

Table E-2. Analytical Quality Assurance Checks--Percent Recoveries for TOX, Phenolics, Metals, Pesticides, and Herbicides (Page 1 of 2)

Constituent	Unspiked Sample		Field Spiked Sample				Percent Recovery
	No.	Reported Conc.*	No.	Reported Level*	Difference	Spike Added	
TOX	15671,15640	42	15675	55	13	29	45
	15672,15649	72	15676	68	-4	59	-7
	15674,15661	48	15678	97	47	120	39
Phenolics	15649,15672	8	15676	46	38	24	150
Arsenic	16566,16579	<2	16567	11	10	14	70
	16573,16594	<2	16574	25	24	23	100
	16571,16585	2	16572	86	84	80	100
Barium	16566,16579	20	16567	100	80	140	57
	16573,16594	100	16574	220	120	230	52
	16571,16585	130	16572	890	760	800	95
Cadmium	16566,16579	<6	16567	<6	0	14	0
	16573,16594	<6	16574	22	19	23	83
	16571,16585	8	16572	92	84	80	105
Chromium	16566,16579	<15	16567	<15	0	34	0
	16573,16594	<15	16574	63	56	58	97
	16571,16585	27	16572	220	190	200	95
Lead	16566,16579	<20	16567	19	9	27	33
	16573,16594	<20	16574	40	30	46	65
	16571,16585	<20	16572	140	130	160	81

Table E-2. Analytical Quality Assurance Checks---Percent Recoveries for TOX, Phenolics, Metals, Pesticides, and Herbicides (Page 2 of 2)

Constituent	Unspiked Sample		Field Spiked Sample			Percent Recovery
	No.	Reported Conc.*	No.	Reported Level*	Spike Added	
Mercury	16566,16579	0.2	16567	1.0	0.8	57
	16573,16594	0.07	16574	2.7	2.6	110
	16571,16585	0.1	16572	4.1	4.0	50
Selenium	16566,16579	<4	16567	11	9	64
	16573,16594	<4	16574	10	8	35
	16571,16585	<4	16572	76	72	91
Silver	16579	<6	16566†	12	9	90
	16594	<6	16573†	26	23	92
	16585	<6	16571†	69	66	88
Herbicide 2,4,5-T	16566,16579	<0.02	16570	9.6	9.6	60
Heptachlor Epoxide Lindane Malathion o,p'-DDP p,p'-DDD o,p'-DDE p,p'-DDE o,p'-DDT p,p'-DDT	16566,16579	<0.005	16569	4.4	4.4	110
	16566,16579	<0.002	16569	2.5	2.5	64
	16566,16579	<0.010	16568	16	16	42
	16566,16579	<0.005	16569	4.9	4.9	180
	16566,16579	<0.005	16569	6.9	6.9	150
	16566,16579	<0.005	16569	3.8	3.8	120
	16566,16579	<0.005	16569	3.0	3.0	110
	16566,16579	<0.005	16569	4.4	4.4	120
	16566,16579	<0.005	16569	4.7	4.7	87

*Units measured in ug/l.

†Laboratory spikes.

Table E-3. Analytics Quality Assurance Checks--Values Reported for Duplicate Samples (Page 1 of 2)

Constituents	Units	Sample No.	Value	Sample No.	Value
TOX	ug/l	15671	51	15640	33
		15672	75	15649	69
		15674	72	15661	25
Phenolics	ug/l	15649	8	15672	8
DOC	mg/l	16566	<0.5	16579	<0.5
		16571	33	16585	45
COD	mg/l	16566	3.9	16579	6.2
		16571	110	16585	120
Oil & grease	mg/l	15640	<0.5	15671	<0.5
		15649	<0.5	15672	<0.5
		15661	<0.5	15674	<0.5
Arsenic	ug/l	16566	<2	16579	<2
		16573	<2	16594	<2
		16571	2	16585	<2
Barium	ug/l	16566	24	16579	20
		16573	193	16594	18
		16571	173	16585	94
Cadmium	ug/l	16566	<6	16579	<6
		16573	<6	16594	<6
		16571	16	16585	<6
Chromium	ug/l	16566	<15	16579	<15
		16573	<15	16594	<15
		16571	47	16585	<15
Lead	ug/l	16566	<20	16579	<20
		16573	<20	16594	<20
		16571	<20	16585	<20
Mercury	ug/l	16566	0.2	16579	0.2
		16573	0.1	16594	<0.1
		16571	0.2	16585	<0.1
Selenium	ug/l	16566	<4	16579	<4
		16573	<4	16594	<4
		16571	<4	16585	<4

Table E-3. Analytics Quality Assurance Checks--Values Reported for Duplicate Samples (Page 2 of 2)

Constituents	Units	Sample No.	Value	Sample No.	Value
Pesticides	ug/l	16566	BDL*(all)	16579	BDL*(all)
Herbicides	ug/l	16566	BDL*(all)	16579	BDL*(all)
VOC	ug/l	16578		16565	
Chlorobenzene			9.2		5.4
1,4-dichlorobenzene			8.8		3.7
Trichloroethane			2.1		<1.0
Benzene			3.7		<0.5
All other compounds			BDL*		BDL*
VOA-Method 503.1	ug/l	16854		16855	
Benzene			30		34
1,1,2-Trichloroethylene			2.4		2.8
a-Trifluorotoluene			<10		<10
Toluene			<1.0		<1.0
1,1,2,2-Tetrachloroethylene			5.0		6.7
Ethyl benzene			30		36
1-Chlorocyclohexene-1			<1.0		<1.0
p-Xylene			28		25
m-Xylene			<1.0		<1.0
o-Xylene			2.2		2.3
Isopropylbenzene			4.1		5.6
Styrene			<1.0		<1.0
p-Bromofluorobenzene			<1.0		<1.0
n-Propylbenzene			12		14
t-Butylbenzene			<1.0		<1.0
Bromobenzene			<1.0		<1.0
sec-Butylbenzene			<1.0		<1.0
1,3,5-Trimethylbenzene			19		22
p-Cymene			<1.0		<1.0
1,2,4-Trimethylbenzene			<10		<10
Cyclopropylbenzene			6.7		6.8
n-Butylbenzene			2.7		3.0
2,3-Benzofuran			<1.0		<1.0
Hexachlorobutadiene			<1.0		<1.0
Naphthalene			5.6		6.9

*BDL = below detection limit.

Table E-4. Sample Containers, Preservation Methods, and Holding Times

Parameter	Sample Type	Container/ Volume	Method of Preservation (Filtration, pH, etc.)	Holding Time
Oil and grease	W*	Glass, 1 qt. Teflon liner in cap	Conc. H ₂ SO ₄ to pH <2, chill to 4°C	28 days
Phenols	W	Glass, 1 qt.	Conc. H ₂ SO ₄ to pH <2, chill to 4°C	28 days
Metals (dissolved)	W	Plastic, 4 oz.	Filter, conc. HNO ₃ to pH <2	6 months, 28 days†
TOX	W	Glass, 40 ml (2) Teflon septa	No headspace in vial, chill to 4°C	**
DOC	W	Plastic, 4 oz.	Filter, conc. HCl to pH <2, chill to 4°C	28 days
COD	W	Plastic, 4 oz.	Conc. H ₂ SO ₄ to pH <2, chill to 4°C	28 days
Purgeables	W	Glass, 40 ml (4) Teflon septa	No headspace in vial, chill to 4°C	14 days
Organochloride and organophosphate				
Pesticides	W	Glass, 1 liter Teflon liner in cap	Chill to 4°C	7 days extraction, 40 days
		Glass, 1 liter		7 days extraction
Herbicides	W	Teflon liner in cap	Conc. HCl to pH <2, chill to 4°C	40 days analysis

*W = Water.

†Mercury holding time is 28 days.

**Not specified by method.

Source: U.S. Environmental Protection Agency (EPA). 1982. Technical Additions to Methods for Chemical Analysis of Water and Wastes, Table 1. EPA Environmental Monitoring and Support Laboratory, Cincinnati, Ohio. EPA-600/4-82-055, December 1982.

E-2.1 METALS

Metal samples from the wells should be from the first bailer (1 liter). Bottle should be filled to very top if dissolved metals are desired and filtration is not performed immediately.

Filtration should be as follows:

1. Glass fiber filter should be rinsed with 20 to 30 milliliters of 0.5 N HNO_3 after being placed in suction apparatus. Discard rinse.
2. Rinse filter with 20 to 30 milliliters of sample. Discard rinse.
3. Filter sample and return to bottle after the bottle has been rinsed with deionized water.
4. For membrane filtration, place filter in apparatus with gridded side up and follow Steps 1 through 3.
5. Samples must be filtered through the 0.45-microgram filter for analytes to be considered dissolved. Filtration through a glass fiber filter reduces "binding" of the membrane filter but may not be needed for samples with little turbidity.

Preserve metal samples with 2 milliliters of HNO_3 per liter (after filtration for dissolved metals), mix, and check pH by pouring small amount on pH test strip. pH should be less than 2; add more HNO_3 if necessary. Refrigeration is not necessary.

E-2.2 DOC

Bottle should be completely filled to ensure sufficient sample after filtration. Procedure is the same as that for metals except 5 N HCl is used for rinsing and concentrated HCl for preservation. These samples require refrigeration.

E-2.3 OIL AND GREASE

Sample bottles should not be filled to top due to nature of analyte. Bottles are 1-liter glass with Teflon™-lined caps. Preserve to a pH less than 2 with concentrated H₂SO₄ and refrigerate.

E-2.4 PURGEABLE ORGANICS

This sample should come from the first aliquot of a bailer to prevent the loss of any volatiles. Excess turbulence should be avoided (e.g., bubbling) when filling these bottles for the same reason. Fill bottle to an inverted meniscus, cap, and refrigerate immediately. A small convex dimple in the top of the septum indicates that the bottle is properly filled. There should be no air bubbles present in the bottle. This sample is taken in quadruplicate in 40-milliliter glass, screw-cap vials with Teflon™ septa. Preservation is by refrigeration.

E-2.5 TOX

The same procedure is used as for purgeable organics, except samples are taken in duplicate.

E-2.6 TOTAL PHENOLICS

Bottles should not be completely filled in order to leave room for spiking. Bottles are 1-liter glass with Teflon™-lined caps. Preserve to a pH less than 2 with concentrated H₂SO₄ using disposable glass pipets. Refrigerate after acidification.

E-2.7 PESTICIDES/HERBICIDES

Samples are taken in 1-liter glass bottles with Teflon™-lined caps. Separate fractions were taken for organochloride and organophosphate pesticides, and for herbicides. The herbicide fractions were preserved with concentrated HCl to pH less than 2. EPA recommends acidifying samples collected expressly for chlorophenoxy acid herbicide analysis in Section 7 of their publication "Characterization of Hazardous Waste Sites, a Methods Manual, Volume III, Available Laboratory Analytical Methods" (EPA-600/4-84-038, May 1984). They specifically suggest

H_2SO_4 ; WAR used HCl because we believed it would prevent bacterial decomposition and potential hydrolysis of herbicides, while not interfering with subsequent extraction.

E-2.8 CHEMICAL OXYGEN DEMAND

Samples are taken in 4-ounce plastic bottles and preserved with concentrated sulfuric acid to pH less than 2. These samples require refrigeration.

APPENDIX I
AQUIFER TESTING METHOD AND DATA PRESENTATION

I-1.0 AQUIFER HYDRAULIC TESTING

WAR performed single well aquifer tests at one well to determine values of horizontal hydraulic conductivity representative of the surrounding soil. A rising-head test¹ was used.

WAR performed this test at Moody AFB by:

1. Determining the static water level by taking a series of preliminary water level measurements,
2. Rapidly removing water from the well, and
3. Measuring the rise in water levels as a function of time.

Reduction of rising head test data was as follows:

1. Determining the time since the test started for each water level measurement, and
2. Calculating the difference (H_t) between each water level measurement and the static water level (H_o).

The data were plotted on semi-log paper as H_t/H_o versus t . The straight line portion of the plot is used to determine hydraulic conductivity from the equation.

$$K = [R^2 \ln (L/R) \ln (H_1/H_2)]/[2L(t_2-t_1)]$$

where K = hydraulic conductivity (cm/sec)

R = inside radius of the well casing (cm),

L = length of saturated soil opposite the well screen (cm),

t_1, t_2 = elapsed time (sec.), and

H_1, H_2 = H_t/H_o at t_1 and t_2 , respectively.

¹Naval Facilities Engineering Command. 1982. Soil Mechanics, Design Manual 7.1. Alexandria, Virginia. pp 7.1-103 - 7.1-108.

HYDRAULIC CONDUCTIVITY CALCULATIONS

Li. at Well L-4 equals total casing depth less depth to static water =
 $27.7 - 6.6 = 21.1$ feet = 640 cm

From plot of recovery vs. time, two straight lines were approximated.

For first line: $H/H_o = 0.61$ at $t = 5$ minutes
 $H/H_o = 0.305$ at $t = 45$ minutes

For second line: $H/H_o = 0.66$ at $t = 5$ minutes
 $H/H_o = 0.305$ at $t = 45$ minutes

Radius of pipe equals 1 inch = 2.54 cm

For first line: $K = 0.00048$ cm/min
 $K = 8.1 \times 10^{-6}$ cm/sec

For second line: $K = 0.00068$ cm/min
 $K = 1.1 \times 10^{-5}$ cm/sec

Table J-1. Relevant EPA Water Quality Criteria (Page 1 of 5)

Parameter	Criteria for Freshwater Aquatic Life, ug/l				Human Health Criteria, ug/l		
	Acute Toxicity		Chronic Toxicity	Maximum	Potable Water	Ingestion of Water and Aquatic Organisms	
	Level*	Level*	Average	Concentration	Taste/Odor Control†	Ambient Criterion	10 ⁻⁶ Incremental Cancer Risk
PURZABLE ORGANICS							
Acrolein	68	21				320	
Acrylonitrile	7,550	2,600**				0††	0.058
Benzene	5,300					0††	0.66
Carbon tetrachloride	35,200					0††	0.40
Chlorinated ethanes							
1,2-dichloroethane	118,000	20,000				0††	0.94
1,1,2-trichloroethane		9,400				0††	0.60
1,1,2,2-tetrachloroethane		2,400				0††	0.17
1,1,1-trichloroethane						18.4	
Chloroalkyl ethers	238,000						
bis-(chloromethyl)-ether						0††	0.38 x 10 ⁻⁶
Chloroform	28,900	1,240				0††	0.19
Dichloroethylenes	11,600						
1,1-dichloroethylene						0††	0.033
Dichloropropanes	23,000	5,700					
Dichloropropenes	6,060	244				87	
Ethylbenzene	32,000					1.4	
Haloethers	360	122					
Halomethanes	11,000					0††	0.19
Tetrachloroethylene	5,280	840				0††	0.80
Toluene	17,500					14.3	

Table J-1. Relevant EPA Water Quality Criteria (Page 2 of 5)

Parameter	Criteria for Freshwater Aquatic Life, ug/l				Human Health Criteria, ug/l		
	Acute Toxicity Level*		Chronic Toxicity Level*		Ingestion of Water and Aquatic Organisms		
	Maximum	24-hr. Average	Maximum Concentration	Potable Water Taste/Odor Control†	Ambient Criterion	10 ⁻⁶ Incremental Cancer Risk	
PURGEABLE ORGANICS							
Trichloroethene	45,000	21,900**			0††	2.7	
Vinyl chloride					0††	2.0	
BASE/NEUTRAL EXTRACTABLE ORGANICS							
Acenaphthene	1,700	520**		20	0††	0.00012	
Benidine	2,500						
Chlorinated benzenes	250	50**			0††	0.00072	
Hexachlorobenzene					0††	1.9	
Hexachloroethane	980						
Chlorinated naphthalenes	1,600				0††	0.03	
bis(2-chloroethyl) ether					34.7		
bis(2-chloroisopropyl) ether					400		
Dichlorobenzenes	1,120	763			0††	0.0103	
Dichlorobenzidines	330	230			0††	0.11	
2,4-dinitrotoluene	270				0††	0.00042	
1,2-diphenylhydrazine	3,980				42		
Fluoranthene	90	9.3			0††	0.45	
Hexachlorobutadiene	7	5.2		1	206		
Hexachlorocyclopentadiene	117,000				5.2		
Isophorone	2,300	620					
Napthalene	27,000			30	19.8		
Nitrobenzene							

Table J-1. Relevant EPA Water Quality Criteria (Page 4 of 5)

Parameter	Criteria for Freshwater Aquatic Life, ug/l				Human Health Criteria, ug/l		
	Acute Toxicity Level*	Chronic Toxicity Level*	Maximum Average	Maximum Concentration	Potable Water Taste/Odor Control†	Ambient Criterion	10 ⁻⁶ Incremental Cancer Risk
PHENOLIC COMPOUNDS							
Nitrophenols	230	150**				13.4	
2,4-dinitro-o-cresol						70	
dinitrophenol						1,010	
Pentachlorophenol					30		
Phenol					0.30	3.5	
CHLORINATED HYDROCARBON PESTICIDES							
Aldrin				3.0			0.000074
Chlordane			0.0043	2.4		0	0.000046
Dieldrin			0.0019	2.5		0††	0.000071
DDT			0.0010	1.1			0.000024
DDE	1,050						
Endrin			0.0023	0.18		1	
Heptachlor			0.0038	0.52		0††	.00028
Lindane			0.08	2			
Polychlorinated biphenyls	2**		0.014			0††	.00079
HEAVY METALS							
Cadmium		44	***	***		10	
Chromium, trivalent				***		170,000	
Chromium, hexavalent			0.29	21		50	
Copper			5.6	***	1,000		

Table J-1. Relevant EPA Water Quality Criteria (Page 5 of 5)

Parameter	Criteria for Freshwater Aquatic Life, ug/l				Human Health Criteria, ug/l		
	Acute Toxicity Level*		Chronic Toxicity Level*		Ingestion of Water and Aquatic Organisms		
	Level*	Maximum 24-hr. Average	Maximum Concentration	Maximum Concentration	Potable Water Taste/Odor Control†	Ambient Criterion	10 ⁻⁶ Incremental Cancer Risk
HEAVY METALS							
Lead		***				50	
Mercury	0.00057	0.0017				0.144	
Nickel		***	***			13.4	
Zinc		47	***		5		
Cyanide		3.5	52			200	

*Toxicity may occur at lower concentrations among species more sensitive than those tested.
†Organoleptic data used as basis for taste and odor control have no demonstrated relationship to adverse human health effects.

**Data is not definitive.

††Zero level may not be attainable at this time.

***Maximum level related to hardness of water, for which no data are available.

Source: EPA, 1980.

DATA FROM BASE BIOENVIRONMENTAL ENGINEERING FILES

ENVIRONMENTAL SAMPLING DATA (TRACE ORGANICS)				OEHL USE ONLY			
(Use this space for mechanical imprint)				SAMPLING SITE IDENTIFIER (AFR 19-7)			
				BASE WHERE SAMPLE COLLECTED			
				SAMPLING SITE DESCRIPTION			
DATE COLLECTION BEGAN (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		COLLECTION METHOD			
8 6 0 9 0 8		1515		☐ GRAB ☒ COMPOSITE 168 HOURS			
MAIL REPORTS TO (circle if changed)	ORIGINAL	0 1 3 3		USAF Hosp/SGPB Moody A.F.B. Ga. 31699-5300			
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
Norman Laird, E-3, 90750				Norman Laird		460-3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES		F-FOLLOWUP/CLEANUP O-OTHER (specify)	
99						Neighboring city high in TRM	
BASE SAMPLE NUMBER		6 P 8 6 0 2 9 5		OEHL PID			
ANALYSES REQUESTED (check appropriate blocks)							
VOLATILE HALOCARBONS (VOH) (10860)				MISCELLANEOUS			
PRES GROUP T1				VOLATILES			
Volatile Halocarbon Screen 1001460PH				PRES GROUP T1			
Bromodichloromethane 32101				Xylene 81710			
Bromoform 32104				Methylethyl ketone 81595			
Bromomethane 34413				Methylisobutyl ketone 81596			
Carbon Tetrachloride 32102				Total organic halides 10021060H			
Chlorobenzene 34301				X			
Chloroethane 34311				Trihalomethane Potential 1001465MT			
2-Chloroethylvinyl ether 34576				Total Trihalomethanes 82080			
Chloroform 32106				VOLATILE AROMATICS (VOA) (10850)			
Chloromethane 34418				PRES GROUP T1			
Dibromochloromethane 32105				Volatile Aromatic Screen 1001461PA			
1, 2-dichlorobenzene 34536				Benzene 34030			
1, 3-dichlorobenzene 34566				Chlorobenzene 34301			
1, 4-dichlorobenzene 34571				1, 2-dichlorobenzene 34536			
Dichlorodifluoromethane 34668				1, 3-dichlorobenzene 34566			
1, 1-dichloroethane 34496				1, 4-dichlorobenzene 34571			
1, 2-dichloroethane 34531				Ethylbenzene 34371			
1, 1-dichloroethene 34501				Toluene 34010			
trans-1, 2-dichloroethene 34546							
1, 2-dichloropropane 34541							
cis-1, 3-dichloropropene 34704							
trans-1, 3-dichloropropene 34699							
Methylene Chloride 34423							
1, 1, 2, 2-tetrachloroethane 34516							
Tetrachloroethylene 34475							
1, 1, 1-trichloroethane 34506							
1, 1, 2-trichloroethane 34511							
Trichloroethylene 39180							
REMARKS				DURING COLLECTION:			
				PH- 7.4 units			
				TRC- 1.0 ppm			
				TEMP- 23.8°C			
				AFTER STORAGE FOR 7 DAYS:			
				PH- 7.4 units			
				TRC- 0.6 ppm			

DATE 24 Sep 1986

108

FROM: USAFOEHL/SA
BROOKS AFB TX 78235-5501

SAMPLE IDENTITY

WATER

DATE RECEIVED

18 Sep 1986

SAMPLE FROM

LEGAL CONTROLS

TEST PLAN

TEST FOR
MAXIMUM TRIHALOMETHANES POTENTIAL (MTP) 1001465MT

OEHL No. 163089

BASE No. 16P860293

Chloroform	32106	133
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Bromodichloromethane	32101	6.9
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Dibromochloromethane	32105	1	ND
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Bromoform	32104	ND
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Total THM	82080	1	200
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Results in micrograms per liter.

ND = None Detected. Less than the detection limit. ND < 0.1
TRACE = Present, but quantity less than quantitative limit. TR < 0.2

DATE ANALYZED: 22 Sep 1986

REQUESTING AGENCY (Mailing Address)

USAF HOSP/SCFB
MOODY AFB, GA
31699-5300

B. C. Harrison

FAC

ENVIRONMENTAL SAMPLING DATA					GENERAL USE ONLY									
(Use this space for mechanical imprint)					SAMPLING SITE IDENTIFIER (AFR 19-7)									
					BASE WHERE SAMPLE COLLECTED									
					SAMPLING SITE DESCRIPTION									
DATE COLLECTION BEGAN (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)			COLLECTION METHOD									
8 16 10 9 10 9		1000			☒ GRAB ☐ COMPOSITE _____ HOURS									
MAIL REPORTS TO (circle if changed)	ORIGINAL	0 1 3 3			USAF HOSP/SGPB Moody AFB Ga 31689-5300									
	COPY 1													
	COPY 2													
SAMPLE COLLECTED BY (Name, Grade, AFSC)					SIGNATURE					AUTOVON				
Norman Laird, AIC, 7075U					Norman Laird					460-3505				
REASON FOR SUBMISSION		☒ A-ACCIDENT/INCIDENT ☐ R-ROUTINE/PERIODIC ☒ COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ O-OTHER (specify) _____												
BASE SAMPLE NUMBER		GP 86 0290												
ANALYSES REQUESTED (Check appropriate blocks)														
GROUP A		Hardness		00900		Silica		00955		2, 4, 5-T		39740		
Ammonia 00610		☒		Iron 01045		☐		Specific Conductance 00095		2, 4, 5-TP-Silvex		39760		
Chemical Oxygen Demand 00340		☐		Lead 01051		☒		Sulfate 00945						
Kjeldahl Nitrogen 00625		☐		Magnesium 00927		☐		Surfactants-MBAS 38260						
Nitrate 00620		☒		Manganese 01055		☐		Turbidity 00076						
Nitrite 00615		☐		Mercury 71900		☐								
Oil & Grease 00560		☐		Nickel 01067		☐								
Organic Carbon 00680		☐		Potassium 00937		☐								
Orthophosphate 00671		☐		Selenium 01147		☐		GROUP H						
Phosphorus, Total 00665		☐		Silver 01077		☐		Aldrin 39330						
		☐		Sodium 00929		☐		BHC Isomers 39340						
GROUP D		Thallium 01059		☐		a-BHC 39337		☐						
Cyanide, Total 00720		☐		Zinc 01092		☐		b-BHC 39338						
Cyanide, Free 00722		☐				☐		d-BHC 34259						
		☐				☐		Chlordane 39350		GROUP J				
GROUP E		GROUP G		DDT Isomers 39370		☒		Sulfides 00745						
Phenols 32730		Acidity, Total 70508		☐		p, p-DDD 39310		☐						
		Alkalinity, Total 00410		☐		p, p-DDE 39320		☐						
GROUP F		Alkalinity, Bicarbonate 00425		☐		p, p-DDT 39300		☐						
Antimony 01097		Bromide 71870		Dieldrin 39380		ON SITE ANALYSES								
Arsenic 01002		Carbon Dioxide 00405		Dursban 77969		PARAMETER		VALUE						
Barium 01007		Chloride 00940		Endrin 39390		Flow 50050		mgd						
Beryllium 01012		Color 00080		Heptachlor 39410		Chlorine, Total 50060		1.5 mg/l						
Boron 01022		Fluoride 00951		Heptachlor Epoxide 39420		Dissolved Oxygen 00300		mg/l						
Cadmium 01027		Residue, Total 00500		Lindane 39782		pH 00400		7.2 units						
Calcium 00916		Residue, Filterable (TDS) 70300		Methoxychlor 39480		Temperature 00010		26.6 °C						
Chromium, Total 01034		Residue, Nonfilterable 00530		Framitol (Frameton) XY4200000		Odor 00086								
Chromium VI 01032		Residue, Settlesable 50085		Toxaphene 39400		Iodide 71865								
Copper 01042		Residue, Volatile 00505		2, 4-D 39730		Sulfite 00740								
REMARKS														
Complaints concerning taste and odor of water.														

ldh

2. LABORATORY PERFORMING ANALYSIS DEHL		3. LAB SAMPLE NUMBER 061609 061611		4. REQUESTOR SAMPLE NUMBER GP860290	
SAMPLE COLLECTION INFORMATION				5. RECEIVED BY LAB 12 Sept. 86	
7. SITE DESCRIPTION 12 000000				6. DATE ANALYSIS COMPLETED 22 Sept. 86	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041	
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		13. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION					
ANALYSES REQUESTED AND RESULTS					
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)					
PRESERVATION GROUP F			PRESERVATION GROUP C		
PARAMETER	TOTAL	AL G/L	MAX LEV ALLWD	PARAMETER	TOTAL
ARSENIC	01002	.	50 μ G/L	NITRATE AS N (Cadmium Reduction Method)	00620
BARIUM	01007	.	1000 μ G/L		
CADMIUM	01027	.	10. μ G/L		
CHROMIUM	01034	.	50 μ G/L		
LEAD	01051	.	50 μ G/L		
MERCURY	71400	.	2 μ G/L		
SELENIUM	01147	.	10 μ G/L		
SILVER	01077	.	50 μ G/L		
B. OTHER ANALYSES					
061609			061610		
ACTION GROUP F		PRESERVATION GROUP C		ACTION GROUP J	
TOTAL	MG/L	PARAMETER	TOTAL	TOTAL	MG/L
COPPER	01042	Acidity, Mineral As CaCO_3	00436	Sulfate As SO_4	00945
IRON	01045	Acidity, Total, As CaCO_3	00435	Surfactants MBAS As LAS	38260
MANGANESE	01055	Alkalinity, Phenolph As CaCO_3	00415		
ZINC	01092	Alkalinity, Total, As CaCO_3	00410		
CALCIUM As Ca	00916	Chloride	00940		
MAGNESIUM as Mg	00927	Hardness As CaCO_3	00900		
POTASSIUM	00937	Residue, Filtrable (TDS)	00515		
SODIUM	00929	Residue, Non-Filtrable (SS)	00530		
		Residue	00500		
		Specific Conductance	00095		
1. ORGANIZATION REQUESTING ANALYSIS USAF HOSP Moody /SGPB Moody AFB, GA. 31699-5300			CHEMIST JSD ENHJ REVIEWED BY APPROVED BY D. B. S.		

ENVIRONMENTAL SAMPLING DATA				OEHL USE ONLY											
(Use this space for mechanical imprint)				SAMPLING SITE IDENTIFIER (AFR 19-7)											
				BASE WHERE SAMPLE COLLECTED				Moody AFB Ga							
				SAMPLING SITE DESCRIPTION				Mission Lake bldg 1705							
DATE COLLECTION BEGAN (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		COLLECTION METHOD											
8 6 0 9 0 9		1055		☒ GRAB ☐ COMPOSITE _____ HOURS											
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSP/SGPB Moody AFB Ga 31699-5300											
	COPY 1														
	COPY 2														
SAMPLE COLLECTED BY (Name Grade, AFSC)				SIGNATURE				AUTOVON							
Norman Laird, AIC, 90750				Norman Laird				460-3505							
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES		F-FOLLOWUP/CLEANUP O-OTHER (specify)									
EK															
BASE SAMPLE NUMBER		GP 86 0291		OEHL PID											
ANALYSES REQUESTED (Check appropriate blocks)															
GROUP A		Hardness 00900		Silica 00955		2, 4, 5-T 39740									
Ammonia 00610		Iron 01045		Specific Conductance 00095		2, 4, 5-TP-Silvex 39760									
Chemical Oxygen Demand 00340		Lead 01051		Sulfate 00945											
Kjeldahl Nitrogen 00625		Magnesium 00927		Surfactants-MBAS 38260											
Nitrate 00620		Manganese 01055		Turbidity 00076											
Nitrite 00615		Mercury 71900													
Oil & Grease 00560		Nickel 01067													
Organic Carbon 00680		Potassium 00937													
Orthophosphate 00671		Selenium 01147		GROUP H											
Phosphorus, Total 00665		Silver 01077		Aldrin 39330											
		Sodium 00929		BHC Isomers 39340											
GROUP D		Thallium 01059		a-BHC 39337											
Cyanide, Total 00720		Zinc 01092		b-BHC 39338											
Cyanide, Free 00722				d-BHC 34259											
				Chlordane 39350		GROUP I									
GROUP E		GROUP G		DDT Isomers 39370		Sulfides 00745									
Phenols 32730		Acidity, Total 70508		p, p-DDD 39310											
		Alkalinity, Total 00410		p, p-DDE 39320											
GROUP F		Alkalinity, Bicarbonate 00425		p, p-DDT 39300											
Antimony 01097		Bromide 71870		Dieldrin 39380		ON SITE ANALYSES									
Arsenic 01002		Carbon Dioxide 00405		Dursban 77969		PARAMETER		VALUE							
Barium 01007		Chloride 00940		Endrin 39390		Flow 50050		mgd							
Beryllium 01012		Color 00080		Heptachlor 39410		Chlorine, Total 50060		0 mg/l							
Boron 01022		Fluoride 00951		Heptachlor Epoxide 39420		Dissolved Oxygen 00300		mg/l							
Cadmium 01027		Residue, Total 00500		Lindane 39782		pH 00400		7.5 units							
Calcium 00916		Residue, Filterable (TDS) 70300		Methoxychlor 39480		Temperature 00010		25 °C							
Chromium, Total 01034		Residue, Nonfilterable 00530		Framitol (Frameton) XY4200000		Odor 00086									
Chromium VI 01032		Residue, Settleable 50085		Toxaphene 39400		Iodide 71865									
Copper 01042		Residue, Volatile 00505		2, 4-D 39730		Sulfite 00740									
REMARKS															

LABORATORY PERFORMING ANALYSIS				061612 061614		4. REQUESTOR SAMPLE NUMBER GP860291 00028	
SAMPLE COLLECTION INFORMATION						5. DATE RECEIVED BY LAB 12 Sept. 76	
7. SITE DESCRIPTION						6. DATE ANALYSIS COMPLETED 12 Sept. 76	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041		ON-SITE ANALYTICAL RESULTS	
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		13. RESULTS OF OTHER ON-SITE ANALYSES		16. WATER TEMP 17. PH	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER		18. DISS O ₂		MG/L	
15. REASON FOR SAMPLE SUBMISSION							
ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
PRESERVATION GROUP F 261				PRESERVATION GROUP C			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	.	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	.	10 MG/L
BARIUM	01007	.	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01027	.	10 µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01034	.	50 µG/L	FLUORIDE	00051	.	See table in AFR 162-44
LEAD	01051	.	50 µG/L	TURBIDITY	00076	Units	1 Unit
MERCURY	01900	.	2 µG/L				
SELENIUM	01147	.	10 µG/L				
SILVER	01077	.	50 µG/L				
B. OTHER ANALYSES							
061612 PRESERVATION GROUP F				061613 PRESERVATION GROUP J 263			
	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	TOTAL	MG/L
COPPER	01042	.	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945
IRON	01045	<100	Acidity, Total As CaCO ₃	00435	.	Surfactants MBAS As LAS	38260
MANGANESE	01055	<50	Alkalinity, Phenolphth As CaCO ₃	00415	.		
ZINC	01092	.	Alkalinity, Total As CaCO ₃	00410	.		
CALCIUM As Ca	00916	mg/l	Chloride	00940	.		
MAGNESIUM as Mg	00927	mg/l	Hardness As CaCO ₃	00900	.		
POTASSIUM	00537	mg/l	Residue, Filtrable (TDS)	00515	.		
SODIUM	00929	mg/l	Residue, Non-Filtrable (SS)	00530	.		
			Residue	00500	.		
			Specific Conductance	00095	µmhos		
1. ORGANIZATION REQUESTING ANALYSIS				CHEMIST JSU			
USAF Hosp Moody /SGPB Moody AFB, GA 31699-5300				ENJMI MB			
				REVIEWED BY			
				APPROVED BY Digital			

ENVIRONMENTAL SAMPLING DATA				(Use this space for mechanical imprint)			
				SAMPLING SITE IDENTIFIER (AFR 18-7) 			
				BASE WHERE SAMPLE COLLECTED <i>Moody AFB Ga 31699-5300</i>			
				SAMPLING SITE DESCRIPTION <i>Munitions Area bldg 1111</i>			
				COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS			
DATE COLLECTION BEGAN (YYMMDD) <i>81610191019</i>		TIME COLLECTION BEGAN (24 hour clock) <i>1105</i>					
MAIL REPORTS TO (circle if changed)	ORIGINAL	0138	USAF HOSP/SGPB Moody AFB, Ga 31699-5300				
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC) <i>Norman Laird, AIC, 90750</i>				SIGNATURE <i>Norman Laird</i>		AUTOVON <i>460-3505</i>	
REASON FOR SUBMISSION ☒ E		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		COMPLAINT N-NPDES		F-FOLLOWUP/CLEANUP O-OTHER (specify)	
BASE SAMPLE NUMBER <i>G P 36 0292</i>							
ANALYSES REQUESTED (Check appropriate blocks)							
GROUP A		Hardness 00900		Silica 00955		2, 4, 5-T 39740	
Ammonia 00610		Iron 01045		Specific Conductance 00095		2, 4, 5-TP-Silvex 39760	
Chemical Oxygen Demand 00340		Lead 01051		Sulfate 00945			
Kjeldahl Nitrogen 00625		Magnesium 00927		Surfactants-MBAS 38260			
Nitrate 00620		Manganese 01055		Turbidity 00076			
Nitrite 00615		Mercury 71900					
Oil & Grease 00560		Nickel 01067					
Organic Carbon 00680		Potassium 00937					
Orthophosphate 00671		Selenium 01147					
Phosphorus, Total 00665		Silver 01077		Aldrin 39330			
		Sodium 00929		BHC Isomers 39340			
GROUP D		Thallium 01059		a-BHC 39337			
Cyanide, Total 00720		Zinc 01092		b-BHC 39338			
Cyanide, Free 00722				d-BHC 34259			
				Chlordane 39350		GROUP J	
GROUP E		GROUP G		DDT Isomers 39370		Sulfides 00745	
Phenols 32730		Acidity, Total 70508		p, p-DDD 39310			
		Alkalinity, Total 00410		p, p-DDE 39320			
GROUP F		Alkalinity, Bicarbonate 00425		p, p-DDT 39300			
Antimony 01097		Bromide 71870		Dieldrin 39380		ON SITE ANALYSES	
Arsenic 01002		Carbon Dioxide 00405		Dursban 77969		PARAMETER	VALUE
Barium 01007		Chloride 00940		Endrin 39390		Flow 50050	mgd
Beryllium 01012		Color 00080		Heptachlor 39410		Chlorine, Total 50060	0 mg/l
Boron 01022		Fluoride 00951		Heptachlor Epoxide 39420		Dissolved Oxygen 00300	mg/l
Cadmium 01027		Residue, Total 00500		Lindane 39782		pH 00400	7.8 units
Calcium 00916		Residue, Filterable (TDS) 70300		Methoxychlor 39480		Temperature 00010	31.6 °C
Chromium, Total 01034		Residue, Nonfilterable 00530		Framitol (Prometon) XY4200000		Odor 00086	
Chromium VI 01032		Residue, Settlesable 50085		Toxaphene 39400		Iodide 71865	
Copper 01042		Residue, Volatile 00505		2, 4-D 39730		Sulfite 00740	
REMARKS 							

4 REQUESTOR SAMPLE NUMBER

OEHL

501

GP86.0292

00220

SAMPLE COLLECTION INFORMATION				5. DATE RECEIVED BY LAB 12 Sept. 86		6. DATE ANALYSIS COMPLETED 22 Sept. 86	
7. SITE DESCRIPTION 16				ON-SITE ANALYTICAL RESULTS			
8. SITE LOCATION NO		9. FLOWRATE AT SITE 0008 GAL/MIN		10. WEATHER 00041		11. WATER TEMP 10.1 °C	
						12. PH 4 UNITS	
						13. DISS O ₂ MG/L	
11. COLLECTION DATE/PERIOD				12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE				14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION							

ANALYSES REQUESTED AND RESULTS

A. PRIMARY DRINKING WATER STANDARDS (40 CFR 141)

PRESERVATION GROUP F				PRESERVATION GROUP C			
PARAMETER	TOTAL	µ G/L	MAX LEV ALLOWED	PARAMETER	TOTAL	MG/L	MAX LEV ALLOWED
ARSENIC	01002	.	50 µ G/L	NITRATE AS N (Cadmium Reduction Method)	00620	.	10 MG/L
BARIUM	01007	.	1000 µ G/L	PRESERVATION GROUP G			
CADMIUM	01027	.	10. µ G/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLOWED
CHROMIUM	01034	.	50 µ G/L	FLUORIDE	00951	.	See table in APR 161-64
LEAD	01051	.	50 µ G/L	TURBIDITY	00076	Units	1 Unit
MERCURY	71900	.	2 µ G/L				
SELENIUM	01147	.	10 µ G/L				
SILVER	01077	.	50 µ G/L				

B. OTHER ANALYSES

061615			PRESERVATIVE			061616		
TATION GROUP F			TATION GROUP F			TATION GROUP J		
TOTAL	µG/L	PARAMETER	TOTAL	MG/L	TOTAL	MG/L	TOTAL	MG/L
COPPER	01042	Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945		< .1
IRON	01045	Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	38260		
MANGANESE	01055	Alkaln, Phenoth As CaCO ₃	00415					
ZINC	01092	Alkalinity, Total, As CaCO ₃	00410					
CALCIUM As Ca	00916	Chloride	00940					
MAGNESIUM as Mg	00927	Hardness As CaCO ₃	00576					
POTASSIUM	00937	Residue, Filtrable (TDS)	00515					
SODIUM	00929	Residue, Non-Filtrable (SS)	00530					
		Residue	00500					
		Specific Conductance	00095	µmhos				

1. ORGANIZATION REQUESTING ANALYSIS

USAF Hosp Moody / 36PB
Moody AFB, GA 31699-5300

CHEMIST

JSC

ENZYME

⑤

REVIEWED BY

APPROVED BY

2-2-3-2

ENVIRONMENTAL SAMPLING DATA				DO NOT USE ONLY			
(Use this space for mechanical imprint)				SAMPLING SITE IDENTIFIER (AFR 19-7)			
				BASE WHERE SAMPLE COLLECTED <i>Moody AFB, Ga</i>			
				SAMPLING SITE DESCRIPTION <i>Water Plant bldg 913</i>			
DATE COLLECTION BEGAN (YYMMDD) <i>8 16 04 10 19</i>		TIME COLLECTION BEGAN (24 hour clock) <i>1125</i>		COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS			
MAIL REPORTS TO (circle if changed)	ORIGINAL	<i>0133</i>	<i>USAF HOSP/SGPB Moody AFB, Ga 31649-5300</i>				
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC) <i>Norman Laird, AIC, 90780</i>				SIGNATURE <i>Norman Laird</i>		AUTOVON <i>460-3505</i>	
REASON FOR SUBMISSION		☒ A-ACCIDENT/INCIDENT ☐ R-ROUTINE/PERIODIC		☒ COMPLAINT ☐ N-NPDES		☐ F-FOLLOWUP/CLEANUP ☐ O-OTHER (specify) _____	
BASE SAMPLE NUMBER <i>GP 36 0293</i>							
ANALYSES REQUESTED (Check appropriate blocks)							
GROUP A		Hardness 00900		Silica 00955		2, 4, 5-T 39740	
Ammonia 00610 ☒		Iron 01045		Specific Conductance 00095		2, 4, 5-TP-Silvex 39760	
Chemical Oxygen Demand 00340		Lead 01051 ☒		Sulfate 00945			
Kjeldahl Nitrogen 00625		Magnesium 00927		Surfactants-MBAS 38260			
Nitrate 00620 ☒		Manganese 01055		Turbidity 00076			
Nitrite 00615		Mercury 71900					
Oil & Grease 00560		Nickel 01067					
Organic Carbon 00680		Potassium 00937					
Orthophosphate 00671		Selenium 01147		GROUP H			
Phosphorus, Total 00665		Silver 01077		Aldrin 39330			
		Sodium 00929		BHC Isomers 39340			
GROUP D		Thallium 01059		a-BHC 39337			
Cyanide, Total 00720		Zinc 01092		b-BHC 39338			
Cyanide, Free 00722				d-BHC 34259			
				Chlordane 39350		GROUP J	
GROUP E		GROUP G		DDT Isomers 39370 ☒		Sulfides 00745	
Phenols 32730		Acidity, Total 70508		p, p-DDD 39310			
		Alkalinity, Total 00410		p, p-DDE 39320			
GROUP F		Alkalinity, Bicarbonate 00425		p, p-DDT 39300			
Antimony 01097		Bromide 71870		Dieldrin 39380		ON SITE ANALYSES	
Arsenic 01002		Carbon Dioxide 00405		Dursban 77969			
Barium 01007		Chloride 00940		Endrin 39390		Flow	50050 mgd
Beryllium 01012		Color 00080		Heptachlor 39410		Chlorine, Total	50060 <i>65</i> mg/l
Boron 01022		Fluoride 00951		Heptachlor Epoxide 39420		Dissolved Oxygen	00300 mg/l
Cadmium 01027		Residue, Total 00500		Lindane 39782		pH	00400 <i>7.1</i> units
Calcium 00916		Residue, Filterable (TDS) 70300		Methoxychlor 39480		Temperature	00010 <i>22.7</i> °C
Chromium, Total 01034		Residue, Nonfilterable 00530		Framitol (Frameton) XY4200000		Odor	00086
Chromium VI 01032		Residue, Settleable 50085		Toxaphene 39400		Iodide	71865
Copper 01042		Residue, Volatile 00505		2, 4-D 39730		Sulfite	00740
REMARKS							

LABORATORY PERFORMING ANALYSIS

061618

061620

4. REQUESTOR SAMPLE NUMBER

GP860293

00028

SAMPLE COLLECTION INFORMATION				5. DATE RECEIVED BY LAB 12 Sept. 86		6. DATE ANALYSIS COMPLETED 22 Sept. 86	
7. SITE DESCRIPTION 16. SITE LOCATION NO				10. WEATHER 00041		16. WATER TEMP 17. PH	
8. SITE LOCATION NO				9. FLOWRATE AT SITE 00058 GAL/MIN		18. DISS O ₂ MG/L	
11. COLLECTION DATE/PERIOD				12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE				14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION							

ANALYSES REQUESTED AND RESULTS

A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)

PRESERVATION GROUP F				PRESERVATION GROUP C			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	.	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	.	10 MG/L
BARIUM	01007	.	1000 µG/L				
CADMIUM	01027	.	10 µG/L				
CHROMIUM	01034	.	50 µG/L				
LEAD	01051	.	50 µG/L				
MERCURY	01060	.	2 µG/L				
SELENIUM	01147	.	10 µG/L				
SILVER	01077	.	50 µG/L				

B. OTHER ANALYSES

061618

PRESERVATION GROUP F			PRESERVATION GROUP C		
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L
COPPER	01042	.	Acidity, Mineral As CaCO ₃	00436	.
IRON	01045	<100	Acidity, Total, As CaCO ₃	00435	.
MANGANESE	01055	<50	Alkalinity, Phenolphthalein As CaCO ₃	00415	.
ZINC	01092	.	Alkalinity, Total, As CaCO ₃	00410	.
CALCIUM As Ca	00916	mg/l	Chloride	00940	.
MAGNESIUM As Mg	00927	mg/l	Hardness As CaCO ₃	00900	.
POTASSIUM	00937	mg/l	Residue, Filtrable (TDS)	00515	.
SODIUM	00929	mg/l	Residue, Non-Filtrable (SS)	00530	.
			Residue	00500	.
			Specific Conductance	00095	µmhos

061619

061620

1. ORGANIZATION REQUESTING ANALYSIS

USAF Hq. Sp Moody/SGPB
Moody AFB, GA 31699-5300

CHEMIST J50

ENH/11 93

REVIEWED BY

APPROVED BY

[Signature]

ENVIRONMENTAL SAMPLING DATA				ANALYSIS USE ONLY			
(Use this space for mechanical imprint)				SAMPLING SITE IDENTIFIER (AFR 19-7)			
				BASE WHERE SAMPLE COLLECTED <i>Moody AFB, Ga 31699</i>			
				SAMPLING SITE DESCRIPTION <i>Housing Area Bldg 1676</i>			
DATE COLLECTION BEGAN <i>8/6/80</i>		TIME COLLECTION BEGAN (24 hour clock) <i>1130</i>		COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS			
MAIL REPORTS TO (circle if changed)	ORIGINAL	<i>0133 USAF HOSP/SGPB Moody AFB, Ga 31699-5300</i>					
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC) <i>Norman Laird, AIC, 90750</i>				SIGNATURE <i>Norman Laird</i>		AUTOVON <i>460-3505</i>	
REASON FOR SUBMISSION ☒ A-ACCIDENT/INCIDENT ☐ R-ROUTINE/PERIODIC		☒ COMPLAINT ☐ N-NPDES		F-FOLLOWUP/CLEANUP ☐ O-OTHER (specify) _____			
BASE SAMPLE NUMBER <i>GP 86 0294</i>							
ANALYSES REQUESTED (Check appropriate blocks)							
GROUP A		Hardness 00900		Silica 00955		2, 4, 5-T 39740	
Ammonia 00610 ☒		Iron 01045		Specific Conductance 00095		2, 4, 5-TP-Silvex 39760	
Chemical Oxygen Demand 00340		Lead 01051 ☒		Sulfate 00945			
Kjeldahl Nitrogen 00625		Magnesium 00927		Surfactants-MBAS 38260			
Nitrate 00620 ☒		Manganese 01055		Turbidity 00076			
Nitrite 00615		Mercury 71900					
Oil & Grease 00560		Nickel 01067					
Organic Carbon 00680		Potassium 00937					
Orthophosphate 00671		Selenium 01147		GROUP H			
Phosphorus, Total 00665		Silver 01077		Aldrin 39330			
		Sodium 00929		BHC Isomers 39340			
GROUP D		Thallium 01059		a-BHC 39337			
Cyanide, Total 00720		Zinc 01092		b-BHC 39338			
Cyanide, Free 00722				d-BHC 34259			
				Chlordane 39350		GROUP J	
GROUP E		GROUP G		DDT Isomers 39370 ☒		Sulfides 00745	
Phenols 32730		Acidity, Total 70508		p, p-DDD 39310			
		Alkalinity, Total 00410		p, p-DDE 39320			
GROUP F		Alkalinity, Bicarbonate 00425		p, p-DDT 39300			
Antimony 01097		Bromide 71870		Dieldrin 39380		ON SITE ANALYSES	
Arsenic 01002		Carbon Dioxide 00405		Dursban 77969			
Barium 01007		Chloride 00940		Endrin 39390		Flow 50050	mgd
Beryllium 01012		Color 00080		Heptachlor 39410		Chlorine, Total 50060	1.5 mg/l
Boron 01022		Fluoride 00951		Heptachlor Epoxide 39420		Dissolved Oxygen 00300	mg/l
Cadmium 01027		Residue, Total 00500		Lindane 39782		pH 00400	7.4 units
Calcium 00916		Residue, Filterable (TDS) 70300		Methoxychlor 39480		Temperature 00010	26.6 °C
Chromium, Total 01034		Residue, Nonfilterable 00530		Fenitrol (Fenitron) XY4200000		Odor 00086	
Chromium VI 01032		Residue, Settlesable 50085		Toxaphene 39400		Iodide 71865	
Copper 01042		Residue, Volatile 00505		2, 4-D 39730		Sulfite 00740	
REMARKS							

7. LABORATORY PERFORMING ANALYSIS DEHL				061621 061023		4. REQUESTOR SAMPLE NUMBER GP860294	
SAMPLE COLLECTION INFORMATION						5. DATE RECEIVED BY LAB 12 Sept. 86	
7. SITE DESCRIPTION						6. DATE ANALYSIS COMPLETED 22 Sept. 86	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00058 GAL/MIN		10. WEATHER 00041		ON-SITE ANALYTICAL RESULTS	
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		16. WATER TEMP		17. PH	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER		18. DISS O ₂		19. RESULTS OF OTHER ON-SITE ANALYSES	
15. REASON FOR SAMPLE SUBMISSION							

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
PRESERVATION GROUP F (261)				PRESERVATION GROUP C			
PARAMETER	TOTAL	AL G/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	.	50 µ G/L	NITRATE AS N (Cadmium Reduction Method)	00620	.	10 MG/L
BARIUM	01007	.	1000 µ G/L	PRESERVATION GROUP G			
CADMIUM	01027	.	10. µ G/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01034	.	50 µ G/L	FLUORIDE	00951	.	See table in AFR 161-44
LEAD	01051	.	50 µ G/L	TURBIDITY	00976	Units	1 Unit
MERCURY	01900	.	2 µ G/L				
SELENIUM	01147	.	10 µ G/L				
SILVER	01077	.	50 µ G/L				

B. OTHER ANALYSES							
061621				061622			
ACTION GROUP F		PRESERVATION		ACTION GROUP F		PRESERVATION	
TOTAL	MG/L	PARAMETER	TOTAL	MG/L	TOTAL	MG/L	MG/L
COPPER	01042	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945	16.
IRON	01045	Acidity, Total, As CaCO ₃	00435	.	Surfactants MBAS As LAS	38260	.
MANGANESE	01055	Alkalinity, Phenolph As CaCO ₃	00415	.			
ZINC	01092	Alkalinity, Total, As CaCO ₃	00410	.			
CALCIUM As Ca	00916	Chloride	00940	.			
MAGNESIUM As Mg	00927	Hardness As CaCO ₃	00900	.			
POTASSIUM	00937	Residue, Filtrable (TDS)	00515	.			
SODIUM	00929	Residue, Non-Filtrable (SS)	00530	.			
		Residue	00500	.			
		Specific Conductance	00095	µmhos			

1. ORGANIZATION REQUESTING ANALYSIS		CHEMIST	
USAF Hosp Moody / SGPB Moody AFB, GA 31699-5300		JSC	
		ENJM	
		REVIEWED BY	
		APPROVED BY	

ENVIRONMENTAL SAMPLING DATA				(Use this space for mechanical imprint)			
				SAMPLING SITE IDENTIFIER (AFR 18-7)			
				BASE WHERE SAMPLE COLLECTED MOODY AFB GA 31659			
				SAMPLING SITE DESCRIPTION GRASSY POND			
DATE COLLECTION BEGAN (YYMMDD) 8/6/02 1113		TIME COLLECTION BEGAN (24 hour clock)		COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS			
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSP/SCPPB MOODY AFB, GA 31659			
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC) Robert Schmitt, CSM, 90730				SIGNATURE <i>[Signature]</i>		AUTOVON 460-3505	
REASON FOR SUBMISSION ☒ EK		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES		F-FOLLOWUP/CLEANUP O-OTHER (specify)	
BASE SAMPLE NUMBER GN Y6 0052				ANALYSES REQUESTED (Check appropriate blocks)			
GROUP A		Hardness 00900		Silica 00955		2, 4, 5-T 39740	
Ammonia 00610		Iron 01045		Specific Conductance 00095		2, 4, 5-TP-Silvex 39760	
Chemical Oxygen Demand 00340		☒ Lead 01051		Sulfate 00945			
Kjeldahl Nitrogen 00625		Magnesium 00927		Surfactants-MBAS 38260			
Nitrate 00620		Manganese 01055		Turbidity 00076			
Nitrite 00615		Mercury 71900					
☒ Oil & Grease 00560		Nickel 01067					
Organic Carbon 00680		Potassium 00937					
Orthophosphate 00671		Selenium 01147		GROUP H			
Phosphorus, Total 00665		Silver 01077		Aldrin 39330			
		Sodium 00929		BHC Isomers 39340			
GROUP D		Thallium 01059		a-BHC 39337			
Cyanide, Total 00720		Zinc 01092		b-BHC 39338			
Cyanide, Free 00722				d-BHC 34259			
				Chlordane 39350		GROUP J	
GROUP E		GROUP G		DDT Isomers 39370		Sulfides 00745	
Phenols 32730		Acidity, Total 70508		p, p-DDD 39310			
		Alkalinity, Total 00410		p, p-DDE 39320			
GROUP F		Alkalinity, Bicarbonate 00425		p, p-DDT 39300			
Antimony 01097		Bromide 71870		Dieldrin 39380		ON SITE ANALYSES	
Arsenic 01002		Carbon Dioxide 00405		Dursban 77969		PARAMETER VALUE	
Barium 01007		Chloride 00940		Endrin 39390		Flow	50050 mgd
Beryllium 01012		Color 00080		Heptachlor 39410		Chlorine, Total	50060 mg/l
Boron 01022		Fluoride 00951		Heptachlor Epoxide 39420		Dissolved Oxygen	00300 mg/l
Cadmium 01027		Residue, Total 00500		Lindane 39782		pH	00400 units
Calcium 00916		Residue, Filterable (TDS) 70300		Methoxychlor 39480		Temperature	00010 °C
Chromium, Total 01034		Residue, Nonfilterable 00530		Framitol (Frameton) XY4200000		Odor	00086
Chromium VI 01032		Residue, Settlesable 50085		Toxaphene 39400		Iodide	71865
Copper 01042		Residue, Volatile 00505		☒ 2, 4-D 39730		Sulfite	00740
REMARKS No Sampling site IDENTIFIER; Sample is raw water from Pond.							

9110

1. LABORATORY PERFORMING ANALYSIS OEHL			3. LAB SAMPLE NUMBER 17716-217			4. REQUESTOR SAMPLE NO GN860052			
5. SAMPLE COLLECTION INFORMATION 7. SITE DESCRIPTION FEB 24 10 08 AM '86						8. DATE RECEIVED BY LAB 24 Feb. 86		9. DATE ANALYSIS COMPLETED 6 March 86	
10. SITE LOCATION NO		11. FLOWRATE AT SITE 00058 GAL/MIN		12. WEATHER 00041		13. WATER TEMP 00110 °C		14. PH 00407 UNITS	
15. COLLECTION DATE/PERIOD		16. COLLECTORS NAME		17. RESULTS OF OTHER ON-SITE ANALYSES					
18. SAMPLING TECHNIQUE		19. PHONE NUMBER							
20. REASON FOR SAMPLE SUBMISSION NPDES #									
ANALYSES REQUESTED AND RESULTS									
PRESERVATION GROUP A			PRESERVATION GROUP F (64)			PRESERVATION GROUP G			
PARAMETER	TOTAL	MG/L	PARAMETER	DISS	TOTAL	MG/L	PARAMETER	TOTAL	MG/L
Chemical Oxygen Demand	00340	.	ARSENIC	01006	01002	.	BORON	01022	µg/l
Total Organic CARBON as C	00680	.	BARIUM	01005	01007	.	BORON, Dissolved	01020	µg/l
			CADMIUM	01025	01027	.	CHLORIDE	00940	.
			CHROMIUM	01030	01034	.	COLOR	00080	Units
			CHROMIUM Hexavalent		01032	.	FLUORIDE	00951	.
			COPPER	01040	01042	.	Residue Filterable (TDS)	00515	.
			IRON	01046	01045	.	Residue Non Filter (SS)	00530	.
			LEAD	01048	01051	120	Residue	00500	.
			MANGANESE	01056	01055	.	Residue Volatile	00505	.
			MERCURY	71890	71900	.	Specific Conductance	00095	µmhos
			NICKEL	01065	01067	.	SULFATE as SO ₄	00945	.
			SELENIUM	01145	01147	.	SURFACTANTS MBAS as LAS	38260	.
			SILVER	01075	01077	.	TURBIDITY	00074	Units
			ZINC	01090	01092	.			
PRESERVATION GROUP D			PRESERVATION GROUP E			PRESERVATION GROUP J			
PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L	
CYANIDE	00720	.	CALCIUM as Ca	00915	00916	µg/l			
CYANIDE Free, Amenable to Cl ₂	00722	.	MAGNESIUM as Mg	00925	00927	µg/l			
			POTASSIUM	00935	00937	µg/l			
			SODIUM	00930	00929	µg/l			
21. ORGANIZATION REQUESTING ANALYSIS MOBILE AFB						CHEMIST E.H. H			
						REVIEWED BY			
						APPROVED BY Donald B. D			

DATE 18 MAR 1965

7206 USAF OCHL/SAN
Brooks AFB TX 78235-5501

non-potable water

25 Feb. 86

25-27

DISCUSSION

WV-2

12261

2,4-D

ENTOMOLOGY

Gas Chromatography

RESULTS

**SAMPLE
ANALYZED
FOR**

Quantitative Detection Limit (1 liter sample)

Micrograms/Liter
(parts per Billion)

• LAP CONTROL FINGER - BASE CONTROL FINGER
Concentration in 1 Liter Sample - Micrograms/Liter

Aldrin	.02
DDE	.02
DDE	.02
Dieldrin	.02
Endrin	.02
Septachlor	.02
Septachlorepoxyde	.02
Lindane	.01
p,p'-DDT	.02
Diazinon	.02
Malathion	.10
Parathion	.02
Methoxychlor	.20
o,p-DDT	.02
Chlordane	.20
alpha-BHC	.01
Beta-BHC	.02
Delta-BHC	.02
Toxaphene	0.0
2,4-D	0.06
Silvex	0.06

ADAMS

"T" means less than the quantitative detection limit (Trace present).

"X" means less than the qualitative detection limit (none detected).

Answer: L.C. over 164 USMT

USAF Hospital /SGPB

Moody AFB., GA. 31699-5300

Yoshimi A. Nishioka
YOSHIMI A. NISHIOKA, Chemist
YOSHIMI A. NISHIOKA, GS-12
Pesticides Analysis Function
Environmental Chemistry Branch

BULK MATERIAL SAMPLING DATA										OEHL USE ONLY												
(Use this space for mechanical imprint)										WORKPLACE OR SITE IDENTIFIER: 0133 NA77 020 BASE: Military AFB, GA 31199 ORGANIZATION: N/A WORKPLACE OR SITE: 111785 Storm Drain BLDG NO/LOCATION: N/A ROOM/AREA: N/A												
										DATE COLLECTED (YYMMDD): 18.6.03 11.21												
										MAIL REPORTS TO (circle if change): ORIGINAL: 0133 COPY 1: COPY 2:												
SAMPLE COLLECTED BY (Name, Grade, AFSC): Robert Schmitt, A-10, 9.75C										SIGNATURE: [Signature] AUTOVON: 41-3505												
REASON FOR SUBMISSION: A-A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP R-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER										OEHL PID:												
SOURCE BEING SAMPLED: 111785 Storm Drain										EXISTING CONTROLS (Personal protective equipment, Engineering, Administrative): Sorbent Booms												
SAMPLE COLLECTION DATA																						
OEHL SAMPLE NUMBER																						
BASE SAMPLE NUMBER										GN860081												
ANALYSES REQUESTED	A	CHECK FOR	☒ MAJOR COMPONENTS										☐ MAJOR COMPONENTS									
		NAME																				
	B	NIOSH NO																				
		NAME																				
	C	NIOSH NO																				
		NAME																				
	D	NIOSH NO																				
		NAME																				
	E	CHECK FOR	☒ HAZARDOUS/TOXIC WASTE										☐ HAZARDOUS/TOXIC WASTE									
		NAME	UNKNOWN																			
LOT NUMBER																						
NSN (FSN)																						
SPECIFICATION (MIL or FED)																						
MANUFACTURER'S NAME																						
DESCRIPTION OF MATERIAL																						
USAGE (Heated, brushed, sprayed, etc)																						
SUPPORTING SAMPLES	OEHL SAMPLE NO																					
	BASE SAMPLE NO																					
	SAMPLE TYPE																					
COMMENTS: Please quantitate and identify major components + 1/2 liter. Treated. Constructed Soot. Wanton.																						

LABORATORY ANALYSIS REPORT AND RECORD (General)

DATE

18 Mar 86

TO

FROM

SAMPLE IDENTITY

GN 86 0081, unknown chemical

DATE RECEIVED

17 Mar 86

SAMPLE FROM

B/785, storm drain

LAB CONTAINER NO

17733

TEST FOR

Hazardous waste

METHODOLOGY: Infrared Spectrograph: ED X-ray: Gas Chromatograph: Other:
Closed cup Flash Pt. Tester: pH measurement: Atomic Absorption

1. 20% floating jet engine lube oil on 70% water lower layer.
2. Ignitability is higher than 140°F.
3. Considered non-corrosive and non-reactive.
4. The pH of the water layer is 6.0.

J. D. Hillberry

J. D. HILLBERRY, GS-12
Chief, Industrial Products and
Compressed Gas Analysis Section

REQUESTING AGENCY (Mailing Address)

USAF Hq / SG-PB
Moody AFB GA
316 99-5300

DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
SAFE DRINKING WATER PROGRAM

INORGANIC CHEMISTRY REPORT (TYPE 1)

MOODY AIR FORCE BASE

USAF HOSPITAL

MOODY AIR FORCE BASE

VALDOSTA, GA. 31699

ID#: 1850125

DATE COLLECTED: 2/28/85

TIME COLLECTED: 1625

DATE RECEIVED: / /

DATE REPORTED: / /

LAB#: TAP DESCRIPTION:
0401089 HYD. AT PREWITT & BIRD

COLLECTED BY:
K. SHEPARD

TEST DESCRIPTION	LABORATORY RESULTS	ESTABLISHED LIMITS	UNITS	DATE EXAMINED
*ARSENIC AS TOT	<25	50.00	UG/L	/ /
*BARIUM BA TOT	<50	1,000.00	UG/L	/ /
*CADMIUM CD TOT	<5	10.00	UG/L	/ /
*CHROMIUM CR TOT	<25	50.00	UG/L	/ /
*LEAD PB TOT	<25	50.00	UG/L	/ /
*MERCURY HG TOT	<0.5	2.00	UG/L	/ /
*NO2+NO3 N-TOTAL	<0.5	10.00	MG/L	/ /
*SELENIUM SE TOTAL	<3	10.00	UG/L	/ /
*SILVER AS TOTAL	<25	50.00	UG/L	/ /
*FLUORIDE F TOTAL	0.3	1.00	MG/L	/ /
PH (LAB)	7.3	0.00	SU	/ /
CONDUCTIVITY AT 25C MICROMHO	248	0.00	MICR	/ /
IRON FE TOTAL	405	300.00	UG/L	/ /
MANGANESE TOT	<25	50.00	UG/L	/ /
COPPER CU TOT	<50	1,000.00	UG/L	/ /
ZINC ZN TOT	<50	5,000.00	UG/L	/ /
SODIUM NA TOT	2.9	0.00	MG/L	/ /

* ESTABLISHED LIMITS SHOWN ABOVE, IS ALSO THE PRIMARY MCL

USAF HOSPITAL
SH ENVIRONMENTAL PROTECT. DIV.
WATER SUPPLY SECTION

HAROLD LANFORD
LABORATORY MANAGER



DEPARTMENT OF THE AIR FORCE

USAF HOSPITAL MOODY (TAC)
MOODY AIR FORCE BASE GA 31699-5300

24 NOV 1986

REPLY TO
ATTN OF USAF Hospital/SGPB Moody A.F.B., Ga. 31699-5300

SUBJECT Radiological Sampling Results - 1986

TO Georgia Department of Natural Resources: Environmental Protection Division
270 Washington Street, S.W. Atlanta, Ga. 30334.

1. In accordance with Air Force Regulation (AFR) 161-44, and Georgia State requirements, a complete Radiological analysis was conducted on Moody A.F.B. water supplies. Monitoring was performed during the months of January, April, July, and October 1986. Listed below are the designated sampling sites, and their annual average Gross Alpha Particle in PicoCuries per Liter (pCi/L).

<u>SITE #</u>	<u>SITES</u>	<u>SOURCE</u>	<u>AVG. GROSS ALPHA</u>
0133-PD-010	Hospital, Bldg. 900	Well	0.97 pCi/L
0133-PD-011	Munitions, Bldg. 1111	Well	0.91 pCi/L
0133-PD-012	Mission Lake, Bldg. 1705	Well	0.92 pCi/L
0133-PD-013	Grassy Pond, Bldg. 2019	Well	1.92 pCi/L
0133-PD-014	Transmitter Site, Bldg 1500	Well	2.33 pCi/L
0133-PD-015	Receiver Site, Bldg. 1501	Well	1.40 pCi/L
	Mission Lake	Lake	0.76 pCi/L
	Grassy Pond	Pond	0.86 pCi/L

2. These results indicate Moody A.F.B. meets the 5 pCi/L standard set by state and federal agencies. Direct any questions to this office at (912) 333-3505.

Lana D Harvey

LANA D. HARVEY, 2d Lt. USAF, BSC
Chief, Bioenvironmental Engineering Services

cc:347th CES/DEEV
347th CES/DEMC

Readiness is our Profession

RADIOLOGICAL SAMPLING DATA			
DATE COLLECTED (YYMMDD) 18.6.91 11.7		TIME COLLECTION BEGAN (24 hour clock) 081705	
WORKPLACE OR SITE IDENTIFIER 0133-PPD-615		ORGANIZATION USAF HOSP	
MAIL REPORTS TO ORIGINAL 0133 COPY 1 0133 COPY 2 0133		REASON FOR SUBMISSION A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP N-NPDES R-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER (specify)	
SAMPLE COLLECTED BY (Name, Grade, AFSC) Robert Schraft (A1A, 90730)		SIGNATURE Robert Schraft	
EMPLOYEE NAME N/A		EMPLOYEE SSAN	
BASE SAMPLE NUMBER 0133		GENL PID NUMBER (SEEK FOR PID)	
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable	
PRESERVATION GROUP N/A		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container) ND-NONE	
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) ☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (APR 161-44)			
AIR FILTER DATA		COLLECTION TIME min	
FLOW RATE		VOLUME COLLECTED	
COMMENTS			

11-FEB-86

R133Z

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION

TYPE OF SAMPLE

DATE RECEIVED

OEHL NUMBER

GP 86 0015

DRINKING WATER

03-FEB-86

18600250

GROSS ALPHA

<1

PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 05-FEB-86

PRESERVATION GROUP		☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		ND-NONE	
ANALYSES REQUESTED					
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____		☐ CARBON 14 ☐ TRITIUM ☐ URANIUM		☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)	
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE	
				VOLUME COLLECTED	
COMMENTS					

AF FORM 2753

JAN 81

RADIOLOGICAL SAMPLING DATA				GENL. USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133	
				BASE		PD 012	
MOODY AFB, GA				ORGANIZATION			
MISSION LAKE				USAF HOSP			
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLDG NO/LOCATION		ROOM/AREA	
18.6.10.4.10.2				1705		N/A	
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSP/SGPB MOODY AFB, GA 31699-5300			
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
Robert Schraft, AMN 90750				Robert Schraft		460-3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP	
[X] R		R-ROUTINE BACKGROUND/PERIODIC SURVEY		OTHER (specify)		N-NPDES	
EMPLOYEE NAME				EMPLOYEE SSAN			
N/A				[REDACTED]			
BASE SAMPLE NUMBER		GP 860107		GENL. PID NUMBER (AFR 161-44)			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)				ND-NONE	
[X] N		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)					
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify)		☐ CARBON 14 ☐ TRITIUM ☐ URANIUM		☐ PLUTONIUM ☐ RADIUM ☐ RADON		☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)	
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

25-APR-86 R133P SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGP USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

=====

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0107	WATER	09-APR-86	18600398

=====

GROSS ALPHA 0.7 +/- 0.7 PICOCURIES PER LITER

=====

EDWARD F. MAHER, MAJOR, USAF, BSC DATE COMPLETED 16-APR-86
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

PRESERVATION GROUP	☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	ND-NONE
ANALYSES REQUESTED		
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM
☐ GAMMA	☐ URANIUM	☐ RADON
☐ OTHER (specify) _____		
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE
		VOLUME COLLECTED
COMMENTS		

RADIOLOGICAL SAMPLING DATA														
(Use this space for mechanical imprint)					WORKPLACE OR SITE IDENTIFIER		0133		PD		012			
					BASE		Moody AFB Ga				ORGANIZATION		347 TFW	
					WORKPLACE OR SITE		Mission Lake							
DATE COLLECTED (YYMMDD)			TIME COLLECTION BEGAN (24 hour clock)			BLDG NO./LOCATION			ROOM/AREA					
8 6 0 7 12 12						1705			N/A					
MAIL REPORTS TO (Circle if changed)	ORIGINAL		0133		USAF HOSP/SGPB Moody AFB, Ga 31699-5300									
	COPY 1													
	COPY 2													
SAMPLE COLLECTED BY (Name, Grade, AFSO)						SIGNATURE			AUTOVON					
Norman W. Laird, AIC, 90750						Norman W. Laird			460-3505					
REASON FOR SUBMISSION		☒ ACCIDENT/INCIDENT ☐ C-COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ N-NPDES ☒ ROUTINE BACKGROUND/PERIODIC SURVEY ☐ O-OTHER (Specify)												
EMPLOYEE NAME						EMPLOYEE SSN								
N/A														
EMPLOYEE WEIGHT				LBS.		AGE		SEX ☐ MALE ☐ FEMALE						
BASE SAMPLE NUMBER				GP 86 0242										
COLLECTION METHOD (enter letter code)				SAMPLE TYPE (enter letter code)										
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Smear O-Other				X-Air, Ambient/Gen. Area H-Human C-Unclassified/Other Y-Air, Emission, Source M-Industrial Material U-Urine Z-Air, Breathing Zone R-Nasal Swab V-Vegetation B-Blood D-Residue/Ash T-Waste, Hazardous, Toxic O-Biological, Other L-Sludge N-Water, Nonpotable F-Food S-Soil P-Water, Potable G-Gas/Air, Compressed W-Surface Contaminant										
PRESERVATION GROUP		☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ N2-NONE ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)												
ANALYSES REQUESTED														
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)														
AIR FILTER DATA			COLLECTION TIME			FLOW RATE			VOLUME COLLECTED					
			min											
REMARKS														

R133Z

SAMPLE ANALYSIS RESULTS

HOSP MOODY/SGPB
MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0242	DRINKING WATER	29-JUL-86	18601406
GROSS ALPHA	1 +/- 1	PICOCURIES PER LITER	

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 08-AUG-86

1-24 HOUR VOID
W-Wipe/Smear
O-Other

O-Biological, Other
F-Food
G-Gas/Air, Compressed

L-Sludge
S-Soil
W-Surface Contaminant

N-Water, Nonpotable
P-Water, Potable

PRESERVATION
GROUP

NP

R1-NITRIC ACID, pH < 2.0 (plastic container)
R2-HYDROCHLORIC ACID, pH < 2.0 (with $Na_2S_2O_3$ in glass container)

NP-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify)					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA							
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133 PD 012	
				BASE		ORGANIZATION	
				Moody AFB Ga		Mission Lake	
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLDG NO./LOCATION		ROOM/AREA	
816110114		1015		1705		N/A	
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133		USAF HOSP/SGPB Moody AFB Ga 31699-5300			
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
NORMAN W. LAIRD, AIC, 90750				Norman W Laird		460-3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT R-ROUTINE BACKGROUND/PERIODIC SURVEY		C-COMPLAINT F-FOLLOWUP/CLEANUP O-OTHER (Specify)		N-NPDES	
EMPLOYEE NAME		EMPLOYEE SSN		AGE		SEX ☐ MALE ☐ FEMALE	
N/A		[Redacted]		[Redacted]		[Redacted]	
EMPLOYEE WEIGHT		LBS.		[Redacted]		[Redacted]	
[Redacted]		[Redacted]		[Redacted]		[Redacted]	
BASE SAMPLE NUMBER		GP 860317		[Redacted]		[Redacted]	
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		N9-NONE			
N9							
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify) _____							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
REMARKS							

 J-86 R133Z | SAMPLE ANALYSIS RESULTS
 JAF HOSP MOODY/SGPB | USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 | HEALTH LABORATORY (AFSC)
 | BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | DEHL NUMBER
 GP 86 0317 | DRINKING WATER | 27-OCT-86 | 18601763
 GROSS ALPHA 1 +/- 1 PICO CURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC | DATE COMPLETED 07-NOV-86
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

T-24 Hour Void W-Wipe/Smear O-Other	O-Biological, Other F-Food G-Gas/Air, Compressed	L-Drinking S-Soil W-Surface Contaminant	P-Water, Potable
PRESERVATION GROUP N R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container)		NS-NONE DRINKING WATER STANDARDS (AFR 161-44)	
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ GROSS BETA ☐ OTHER (specify)			
☐ GAMMA ☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

RADIOLOGICAL SAMPLING DATA				GENL. USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER 0133--PD-012 BASE MOODY AFB, GA ORGANIZATION NIA			
DATE COLLECTED (YYMMDD) 180111-7				TIME COLLECTION BEGAN (24 hour clock)		BLDG NO./LOCATION NIA ROOM/AREA NIA	
MAIL REPORTS TO (circle if changed) ORIGINAL 0133 COPY 1 1 COPY 2 1				USAF HOSP/SGPO, Moody AFB, GA 31619-5300 MISSION LAKE (LAKE WATER)			
SAMPLE COLLECTED BY (Name, Grade, AFSC) Robert Schraft, Cmn, 90730				SIGNATURE <i>Robert Schraft</i>		AUTOVON 460-3505	
REASON FOR SUBMISSION R				☐ A-ACCIDENT/INCIDENT ☐ R-ROUTINE BACKGROUND/PERIODIC SURVEY		☐ C-COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ O-OTHER (specify)	
EMPLOYEE NAME NIA				EMPLOYEE SSAN			
BASE SAMPLE NUMBER GP 86 0016				GENL. PID NUMBER (GENL. use only)			
COLLECTION METHOD (enter letter code) ☐ C-Composite ☐ G-Grab ☐ V-Single Void ☐ T-24 Hour Void ☐ W-Wipe/Swipe ☐ O-Other		SAMPLE TYPE (enter letter code) ☒ X-Air, Ambient/Gen. Area ☐ Y-Air, Emission, Source ☐ Z-Air, Breathing Zone ☐ B-Blood ☐ O-Biological, Other ☐ F-Food ☐ G-Gas/Air, Compressed ☐ H-Human ☐ M-Industrial Material ☐ R-Nasal Swab ☐ D-Residue/Ash ☐ L-Sludge ☐ S-Soil ☐ W-Surface Contaminant ☐ C-Unclassified/Other ☐ U-Urine ☐ V-Vegetation ☐ T-Waste, Hazardous, Toxic ☐ N-Water, Nonpotable ☐ P-Water, Potable					
PRESERVATION GROUP N/A		☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) ☐ N0-NONE					
ANALYSES REQUESTED ☐ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify)							
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM							
☐ PLUTONIUM ☐ RADIUM ☐ RADON							
☒ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

11-FEB-86	R133Z	SAMPLE ANALYSIS RESULTS
USAF HOSP MOODY/SGPB		USAF OCCUPATIONAL AND ENVIRONMENTAL
MOODY AFB GA 31601-5300		HEALTH LABORATORY (AFSC)
		BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0016	DRINKING WATER	03-FEB-86	18600251

GROSS ALPHA <1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC CHIEF, RADIOANALYTICAL SERVICES BR. AUTOVON 240-2061	DATE COMPLETED 05-FEB-86
--	--------------------------

PRESERVATION GROUP	☒ N/A	R1-NITRIC ACID, pH < 2.0 (plastic container)	ND-NONE
		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	
ANALYSES REQUESTED			
☐ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☒ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

RADIOLOGICAL SAMPLING DATA				GENL USE ONLY															
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133				00PD				0012					
				BASE		MOODY AFB, GA 31699								ORGANIZATION		USAF HOSP			
				WORKPLACE OR SITE		MISSION LAKE								ROOM/AREA		POND WATER			
DATE COLLECTED (YYMMDD)				TIME COLLECTION BEGAN (24 hour clock)				BLOG NO/LOCATION				ROOM/AREA							
18,610,4197								N/A				N/A							
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSP / SCAB MOODY AFB, GA 31699-5300															
	COPY 1																		
	COPY 2																		
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE				AUTOVON											
ROBERT SCHAFF, Ann, 90750				[Signature]				461-3505											
REASON FOR SUBMISSION				A-ACCIDENT/INCIDENT				C-COMPLAINT				F-FOLLOWUP/CLEANUP				N-NPDES			
R-ROUTINE BACKGROUND/PERIODIC SURVEY				O-OTHER (specify)															
EMPLOYEE NAME				EMPLOYEE SSAN															
N/A																			
BASE SAMPLE NUMBER				DEPL PID NUMBER (DEPL use only)															
GP 86 0108																			
COLLECTION METHOD (enter letter code)				SAMPLE TYPE (enter letter code)															
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other				X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable															
PRESERVATION GROUP				R1-NITRIC ACID, pH < 2.0 (plastic container)								R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)							
ND																			
ANALYSES REQUESTED																			
☒ GROSS ALPHA				☐ CARBON 14				☐ PLUTONIUM				☐ STRONTIUM							
☐ GROSS BETA				☐ TRITIUM				☐ RADIUM				☐ DRINKING WATER STANDARDS (AFR 161-44)							
☐ GAMMA				☐ URANIUM				☐ RADON											
☐ OTHER (specify)																			
AIR FILTER DATA				COLLECTION TIME min				FLOW RATE				VOLUME COLLECTED							
COMMENTS																			

25-APR-86

R133P

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGP
MOODY AFB GA 31601-5300USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION

TYPE OF SAMPLE

DATE RECEIVED

DEHL NUMBER

GD 86 0108

WATER

09-APR-86

18600399

GROSS ALPHA

<0.6

PICOCURIES PER LITER

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVDN 240-2061DATE COMPLETED 16-APR-86

PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		ND-NONE	
ANALYSES REQUESTED							
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM				
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)				
☐ GAMMA	☐ URANIUM	☐ RADON					
☐ OTHER (specify) _____							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

RADIOLOGICAL SAMPLING DATA			
(Use this space for mechanical imprint)			
WORKPLACE OR SITE IDENTIFIER 0133 PD 012		BASE Moody AFB Ga	
WORKPLACE OR SITE Mission Lake (Pond)		ORGANIZATION 347 TFW	
DATE COLLECTED (YYMMDD) 8/6/02	TIME COLLECTION BEGAN (24 hour clock) 1212	BLDG NO./LOCATION -	ROOM/AREA Pond water
MAIL REPORTS TO (Circle if changed)	ORIGINAL	USAF HOSP/SGPB Moody AFB Ga 31699-5300	
	COPY 1		
	COPY 2		
SAMPLE COLLECTED BY (Name, Grade, AFSC) NORMAN W. LAIRD, AIC, 90750		SIGNATURE <i>Norman W. Laird</i>	AUTOVON 460-3505
REASON FOR SUBMISSION ☒ R A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP N-NPDES ☒ ROUTINE BACKGROUND/PERIODIC SURVEY Q-OTHER (Specify)			
EMPLOYEE NAME N/A		EMPLOYEE SSN [REDACTED]	
EMPLOYEE WEIGHT LBS.		AGE	SEX ☐ MALE ☐ FEMALE
BASE SAMPLE NUMBER GW 86 0243		[REDACTED]	
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable	
PRESERVATION GROUP ☒ N1 R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)		N6-NONE	
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

R1332

SAMPLE ANALYSIS RESULTS

MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GN 86 0243	WATER	29-JUL-86	18601407
GROSS ALPHA	<0.5	PICOCURIES PER LITER	

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 08-AUG-86

V-Single Void
T-24 Hour Void
W-Wipe/Swipe
O-OtherZ-Air, Breathing Zone
S-Blood
O-Biological, Other
F-Food
G-Gas/Air, CompressedR-Nasal Swab
D-Residue/Ash
L-Sediment
S-Soil
W-Surface ContaminantU-Urine
V-Vegetation
T-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, PotablePRESERVATION
GROUP

N/A

R1-NITRIC ACID, pH < 2.0 (plastic container)

R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container)

N9-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify)					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

LY

RADIOLOGICAL SAMPLING DATA									
(Use this space for mechanical imprint)									
WORKPLACE OR SITE IDENTIFIER					0133		PD		012
BASE					Moody AFB Ga			ORGANIZATION	
WORKPLACE OR SITE					Mission Lake				
DATE COLLECTED (YYMMDD)			TIME COLLECTION BEGAN (24 hour clock)			BLOG NO./LOCATION		ROOM/AREA	
8/6/10			14			1015		Lake Water	
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133		USAF HOSP/SGPB Moody AFB, Ga. 31699-5300					
	COPY 1								
	COPY 2								
SAMPLE COLLECTED BY (Name, Grade, AFSC)					SIGNATURE		AUTOVON		
NORMAN W. LAIRD, AIC, 90750					Norman W Laird		460-3505		
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP		N-NPDES	
R-ROUTINE BACKGROUND/PERIODIC SURVEY						O-OTHER (Specify)			
EMPLOYEE NAME					EMPLOYEE SSN				
N/A									
EMPLOYEE WEIGHT					AGE		SEX		
							☐ MALE ☐ FEMALE		
BASE SAMPLE NUMBER									
GN 86 0316									
COLLECTION METHOD (enter letter code)			SAMPLE TYPE (enter letter code)						
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable						
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container) N5-NONE							
N5									
ANALYSES REQUESTED									
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)									
AIR FILTER DATA		COLLECTION TIME		FLOW RATE		VOLUME COLLECTED			
		min							
REMARKS									

36	R133Z	SAMPLE ANALYSIS RESULTS	
USAF HOSP MOODY/SBPB MOODY AFB GA 31601-5300		USAF OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY (AFSC) BROOKS AFB, TEXAS 78235-5501	

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GN 86 0316	WATER	27-OCT-86	18601762

GROSS ALPHA	<1	PICOCURIES PER LITER	
EDWARD F. MAHER, MAJOR, USAF, BSC CHIEF, RADIOANALYTICAL SERVICES BR. AUTOVON 240-2061		DATE COMPLETED 07-NOV-86	

T-24 Hour Void W-Wipe/Swipe O-Other	B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed	D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant	T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable
PRESERVATION GROUP N2		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	
ANALYSES REQUESTED			
☒ GROSS ALPHA ☐ GROSS BETA ☐ OTHER (specify)	☐ GAMMA ☐ CARBON 14	☐ TRITIUM ☐ URANIUM	☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

RADIOLOGICAL SAMPLING DATA				GENL. USE ONLY													
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133						--PD		-011			
				BASE		McCOMB AFB, GA						USAF HOSP					
				WORKPLACE OR SITE		MUNITIONS											
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLOG NO/LOCATION				ROOM/AREA									
18.40.11.71				Bldg 1100				N/A									
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSP/SGPB McCOMB AFB, GA 31699-5300													
	COPY 1																
	COPY 2																
SAMPLE COLLECTED BY (Name, Grade, APSC)				SIGNATURE				AUTOVON									
ROBERT SCHRAFT, Gmn, 90730				Robert Schraft				460-3505									
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP		N-NPDES									
R-ROUTINE BACKGROUND/PERIODIC SURVEY		O-OTHER (specify)															
EMPLOYEE NAME				EMPLOYEE SSAN													
N/A																	
BASE SAMPLE NUMBER				GENL. PID NUMBER (GENL. use only)													
GP 86 0014																	
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)															
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable															
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container) ND-NONE															
N/A																	
ANALYSES REQUESTED																	
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify)																	
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM																	
☐ PLUTONIUM ☐ RADIUM ☐ RADON																	
☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)																	
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED											
COMMENTS																	

11-FEB-86	R133Z	SAMPLE ANALYSIS RESULTS	
USAF HOSP MOODY/SGPB MOODY AFB GA 31601-5300		USAF OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY (AFSC) BROOKS AFB, TEXAS 78235-5501	
IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	DEHL NUMBER
GP 85 0014	DRINKING WATER	03-FEB-86	18600249
GROSS ALPHA <1		PICOCURIES PER LITER	
ABOVE SAMPLE COMPLIES WITH AFR 161-44 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO DETERMINE COMPLIANCE WITH AFR 161-44			
EDWARD F. MAHER, MAJOR, USAF, BSC CHIEF, RADIOANALYTICAL SERVICES BR. AUTOVON 240-2061		DATE COMPLETED 05-FEB-86	

PRESERVATION GROUP	☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	ND-NONE
ANALYSES REQUESTED		
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____	☐ CARBON 14 ☐ TRITIUM ☐ URANIUM	☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE
VOLUME COLLECTED		
COMMENTS		

RADIOLOGICAL SAMPLING DATA				DEHL USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133	
				BASE		PD	
				ORGANIZATION		C11	
MOODY AFB, GA 31699 USAF HOSP				Munitions Area			
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLDG NO/LOCATION		ROOM/AREA	
1861041021				1100		N/A	
MAIL REPORTS TO (circle if changed)	ORIGINAL	133		USAF HOSP/SGPB MOODY AFB, GA 31699-5300			
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
ROBERT SCHRATT, AMN, 90750				[Signature]		460-3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP	
[R]		R-ROUTINE BACKGROUND/PERIODIC SURVEY		OTHER (specify)		N-NPDES	
EMPLOYEE NAME				EMPLOYEE SSAN			
N/A				[SSAN]			
BASE SAMPLE NUMBER		G P 86 0106		DEHL PID NUMBER (DEHL use only)			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)				ND-NONE	
[N1]		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)					
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____							
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

 15-APR-86 R133P | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGP | USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 | HEALTH LABORATORY(AFSC)
 | BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | CEHL NUMBER
 GP 86 0106 | WATER | 09-APR-86 | 18600397
 GROSS ALPHA <0.7 PICOCURIES PER LITER

EDWARD F. MAHER, MAJOR, USAF, BSC | DATE COMPLETED 18-APR-86
 CHIEF, RADIOANALYTICAL SERVICES BR. |
 AUTOVON 240-2061 |

PRESERVATION GROUP	☒ NO	R1-NITRIC ACID, pH < 2.0 (plastic container)	ND-NONE
		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

LY

RADIOLOGICAL SAMPLING DATA									
(Use this space for mechanical imprint)									
WORKPLACE OR SITE IDENTIFIER 0133 PD 011					BASE Moody AFB Ga ORGANIZATION 397 TFW				
WORKPLACE OR SITE Munitions									
DATE COLLECTED (YYMMDD) 816 071212			TIME COLLECTION BEGAN (24 hour clock)			BLDG NO./LOCATION Bldg 1111		ROOM/AREA N/A	
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133	USAF HOSP/SGPB Moody AFB Ga. 31699-5300						
	COPY 1								
	COPY 2								
SAMPLE COLLECTED BY (Name, Grade, AFSC) NORMAN W. LAIRD AIC 90750					SIGNATURE Norman W. Laird			AUTOVON 460-3505	
REASON FOR SUBMISSION ☒ R		A-ACCIDENT/INCIDENT ☒ C-COMPLAINT			F-FOLLOWUP/CLEANUP			N-NPDES	
R-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER (Specify)									
EMPLOYEE NAME N/A					EMPLOYEE SSN				
EMPLOYEE WEIGHT LBS.					AGE		SEX ☐ MALE ☐ FEMALE		
BASE SAMPLE NUMBER GP 86 0241					OBS. NO. (enter last 4 digits)				
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable						
PRESERVATION GROUP ☒ NO		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) N9-NONE							
ANALYSES REQUESTED									
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify) _____									
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED			
REMARKS									

R133Z

SAMPLE ANALYSIS RESULTS

OSP MOODY/SGPB
AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0241	DRINKING WATER	29-JUL-86	18601405
GROSS ALPHA <1		PICOCURIES PER LITER	

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 08-AUG-86

V-Single Void
T-24 Hour Void
W-Wipe/Swipe
O-Other

Z-Air, breathing zone
B-Blood
O-Biological, Other
F-Food
G-Gas/Air, Compressed

D-Residue/Ash
L-Sludge
S-Soil
W-Surface Contaminant

T-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, Potable

PRESERVATION GROUP	☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☒ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	N9-NONE	
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM
☐ OTHER (specify)	☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)		
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

RADIOLOGICAL SAMPLING DATA									
(Use this space for mechanical imprint)									
WORKPLACE OR SITE IDENTIFIER					0133		PD		011
BASE					Moody AFB Ga			ORGANIZATION	
WORKPLACE OR SITE					Munitions				
DATE COLLECTED (YYMMDD)			TIME COLLECTION BEGAN (24 hour clock)			BLDG NO./LOCATION		ROOM/AREA	
8/6/01			1030			Bldg 1111		-	
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133		USAF Hosp /SGPB Moody AFB, Ga. 31699-5700					
	COPY 1								
	COPY 2								
SAMPLE COLLECTED BY (Name, Grade, AFSC)					SIGNATURE		AUTOVON		
NORMAN W. LAIRD, AIL, 90750					Norman W. Laird		460-3505		
REASON FOR SUBMISSION		☒ R-A-ACCIDENT/INCIDENT ☐ C-COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ N-NPDES ☐ O-OTHER (Specify)							
EMPLOYEE NAME					EMPLOYEE SSN				
N/A									
EMPLOYEE WEIGHT					AGE		SEX		
							☐ MALE ☐ FEMALE		
BASE SAMPLE NUMBER					DATE, TIME, AND LOCATION (Specify)				
GP 860315									
COLLECTION METHOD (enter letter code)			SAMPLE TYPE (enter letter code)						
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable						
PRESERVATION GROUP			R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) N9-NONE						
N9									
ANALYSES REQUESTED									
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)									
AIR FILTER DATA		COLLECTION TIME		FLOW RATE		VOLUME COLLECTED			
		min							
REMARKS									

 NOV-86 R133Z | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SOPB | USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 | HEALTH LABORATORY (AFSC)
 | BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | OEHL NUMBER
 GP 86 0315 | DRINKING WATER | 27-OCT-86 | 18601761
 GROSS ALPHA <1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC | DATE COMPLETED 07-NOV-86
 CHIEF, RADIOANALYTICAL SERVICES BR. |
 AUTOVON 240-2061

V-Single vomu T-24 Hour Void W-Wipe/Swipe O-Other	B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed	L-Sluage S-Soil W-Surface Contaminant	P-Water, Potable
PRESERVATION GROUP ☒ NO		R1-NITRIC ACID, PH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, PH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	
ANALYSES REQUESTED		NS-NONE	
☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM
☐ OTHER (specify)		☐ RADON	☐ STRONTIUM
		☐ DRINKING WATER STANDARDS (AFR 161-44)	
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

RADIOLOGICAL SAMPLING DATA			
(Use this space for mechanical imprint)		WORKPLACE OR SITE IDENTIFIER	
		0133-1-10-014	
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)	BLDG NO/LOCATION
15 JUL 1971			ROOM/AREA
MAIL REPORTS TO (circle if changed)		ORGANIZATION	
ORIGINAL	COPY 1	COPY 2	
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	AUTOVON
Robert Smith		R. Smith	441-3515
REASON FOR SUBMISSION	A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP N-NPDES R-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER (specify)		
EMPLOYEE NAME		EMPLOYEE SSAN	
BASE SAMPLE NUMBER		GP 86 0019	
COLLECTION METHOD (enter letter code)	SAMPLE TYPE (enter letter code)		
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other	X-Air, Ambient/Gen. Area H-Human C-Unclassified/Other Y-Air, Emission, Source M-Industrial Material U-Urine Z-Air, Breathing Zone R-Nasal Swab V-Vegetation B-Blood D-Residue/Ash T-Waste, Hazardous, Toxic O-Biological, Other L-Sludge N-Water, Nonpotable F-Food S-Soil P-Water, Potable G-Gas/Air, Compressed W-Surface Contaminant		
PRESERVATION GROUP	R1-NITRIC ACID, pH < 2.0 (plastic container) ND-NONE R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		
ANALYSES REQUESTED			
☒ GROSS ALPHA ☐ CARBON 14 ☐ PLUTONIUM ☐ STRONTIUM ☐ GROSS BETA ☐ TRITIUM ☐ RADIUM ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GAMMA ☐ URANIUM ☐ RADON ☐ OTHER (specify)			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

 11-FEB-86 R133Z | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB | USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 | HEALTH LABORATORY (AFSC)
 | BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | DEHL NUMBER

GP 86 0019 | DRINKING WATER | 03-FEB-86 | 18600254

GROSS ALPHA 2 +/- 1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC | DATE COMPLETED 05-FEB-86
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVDN 240-2061

PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		NP-NONE	
ANALYSES REQUESTED							
☒ GROSS ALPHA		☐ CARBON 14		☐ PLUTONIUM		☐ STRONTIUM	
☐ GROSS BETA		☐ TRITIUM		☐ RADIUM		☐ DRINKING WATER STANDARDS (AFR 161-44)	
☐ GAMMA		☐ URANIUM		☐ RADON			
☐ OTHER (specify)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

RADIOLOGICAL SAMPLING DATA				DENVL USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133 02PD 0014	
				BASE		ORGANIZATION	
				MOODY AFB, CA 31659		USAF HOSP	
DATE COLLECTED (YYMMDD)				TIME COLLECTION BEGAN (24 hour clock)		BLDG NO/LOCATION	
18.6.10.410.71						1500	
MAIL REPORTS TO (circle if changed)				WORKPLACE OR SITE		ROOM/AREA	
ORIGINAL 0133				TRANSMITTER		Site	
COPY 1				BLDG NO/LOCATION		ROOM/AREA	
COPY 2				1500		N/A	
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
Robert Schenck, AMN, 90750				[Signature]		466-3545	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP	
[R]		R-ROUTINE BACKGROUND/PERIODIC SURVEY		O-OTHER (specify)		N-NPDES	
EMPLOYEE NAME				EMPLOYEE SSAN			
N/A							
BASE SAMPLE NUMBER		GP 86 0111		DENVL PID NUMBER (DENVL use only)			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)				ND-NONE	
[ND]		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)					
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____							
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

25-APR-86

R133P

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGP
MOODY AFB GA 31401-5300USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION

TYPE OF SAMPLE

DATE RECEIVED

DEHL NUMBER

GP 86 0111

WATER

09-APR-86

19600402

GROSS ALPHA

2.3

+/- 1.1

PICOCURIES PER LITER

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIDANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 16-APR-86

PRESERVATION GROUP ☒ N ☒ D		R2-HYDROCHLORIC ACID, 10% (AFR 161-44)	
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify)			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

RADIOLOGICAL SAMPLING DATA				
(Use this space for mechanical imprint)				
WORKPLACE OR SITE IDENTIFIER		0133 PD 014		
BASE		Moody AFB Ga 347 TFW		
WORKPLACE OR SITE Transmitter Site				
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLDG NO. LOCATION
8161071212				Bldg 1500
ROOM/AREA N/A				
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133		
	COPY 1			
	COPY 2			
USAF HOSP/SGPB Moody AFB Ga 31699-5300				
SAMPLE COLLECTED BY (Name, Grade, AFSC)			SIGNATURE	
NORMAN W. LAIRD, AIC, 90750			Norman W. Laird	
AUTOVON			460-3505	
REASON FOR SUBMISSION ☒ R A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP N-NPDES				
B-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER (Specify)				
EMPLOYEE NAME			EMPLOYEE SSN	
N/A				
EMPLOYEE WEIGHT		LBS.		AGE
				SEX
				☐ MALE ☐ FEMALE
BASE SAMPLE NUMBER				
GP 86 0246				
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)		
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable		
PRESERVATION GROUP				
☒ N ☐ O R1-NITRIC ACID, pH < 2.0 (plastic container) N9-NONE				
R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)				
ANALYSES REQUESTED				
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44)				
☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM				
☐ OTHER (specify)				
AIR FILTER DATA		COLLECTION TIME		FLOW RATE
		min		
VOLUME COLLECTED				
REMARKS				

R13JZSAMPLE ANALYSIS RESULTS *MS*
*10h*USP MOODY/SGPB
MOODY AFB GA 31601-5300USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0246	DRINKING WATER	29-JUL-86	13601410
GROSS ALPHA	2	+/- 1	PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 15-AUG-86

V-Single Void
T-24 Hour Void
W-Wipe/Swipe
O-OtherL-Air, Breathing Zone
B-Blood
O-Biological, Other
F-Food
G-Gas/Air, CompressedD-Residue/Ash
L-Sludge
S-Soil
W-Surface ContaminantT-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, PotablePRESERVATION
GROUP☒ N ☒ OR1-NITRIC ACID, pH < 2.0 (plastic container)
R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container)

N9-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify)					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

AL

RADIOLOGICAL SAMPLING DATA										
(Use this space for mechanical imprint)										
WORKPLACE OR SITE IDENTIFIER					0133 PD 014					
BASE					Moody AFB, Ga					
WORKPLACE OR SITE					Transmitter Site					
DATE COLLECTED (YYMMDD)			TIME COLLECTION BEGAN (24 hour clock)			BLDG NO./LOCATION		ROOM/AREA		
8/6/10/14			1040			Bldg 1500		-		
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133		USAF HOSP/SGPB Moody AFB, Ga 31699-5300						
	COPY 1									
	COPY 2									
SAMPLE COLLECTED BY (Name, Grade, AFSC)					SIGNATURE			AUTOVON		
Norman W. Laird, AIC, 90750					Norman W. Laird			460-3505		
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP		N-NPDES		
☒ R		R-ROUTINE BACKGROUND/PERIODIC SURVEY		O-OTHER (Specify)						
EMPLOYEE NAME					EMPLOYEE SSN					
EMPLOYEE WEIGHT					LBS.		AGE		SEX	
									☐ MALE ☐ FEMALE	
BASE SAMPLE NUMBER					DEPL ID NUMBER (ORNL USE ONLY)					
GP 86 0320										
COLLECTION METHOD (enter letter code)			SAMPLE TYPE (enter letter code)							
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable							
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) N9-NONE								
☒ N9										
ANALYSES REQUESTED										
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44)										
☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM										
☐ OTHER (specify)										
AIR FILTER DATA		COLLECTION TIME		FLOW RATE		VOLUME COLLECTED				
		min								
REMARKS										

 NOV-86 R133Z | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
 MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

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IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0320	DRINKING WATER	27-OCT-86	18601766

=====

GROSS ALPHA 3 +/- 1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

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EDWARD F. MAHER, MAJOR, USAF, BSC CHIEF, RADIOANALYTICAL SERVICES BR. AUTOVON 240-2061	DATE COMPLETED 07-NOV-86
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T-24 Hour Void W-Wipe/Swipe O-Other	B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed	D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant	T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable
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PRESERVATION
 GROUP



R1-NITRIC ACID, PH < 2.0 (plastic container) N#-NONE
 R2-HYDROCHLORIC ACID, PH < 2.0 (with Na₂S₂O₃ in glass container)

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify) _____					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA				OENL USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133	
				BASE		MCCORD AFB, CA	
				WORKPLACE OR SITE		Receiver Site	
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLDG NO/LOCATION		ROOM/AREA	
18.6.10.410.71				1501		N/A	
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HCCP/SLPB MCCORD AFB, CA 31617-5300			
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
Robert Schraft, MAJ, 90750				Robert Schraft		446-3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP	
R-ROUTINE BACKGROUND/PERIODIC SURVEY						N-NPDES	
EMPLOYEE NAME				EMPLOYEE SSAN			
N/A							
BASE SAMPLE NUMBER		GP 86 0112		OENL PID NUMBER (OENL use only)			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH > 2.0 (plastic container)				R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	
N/A						NO-NONE	
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____							
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM							
☐ PLUTONIUM ☐ RADIUM ☐ RADON							
☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

 25-APR-86 R133P SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGP USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION TYPE OF SAMPLE DATE RECEIVED DEHL NUMBER
 GP 86 0112 WATER 09-APR-86 18600403
 GROSS ALPHA 1.6 +/- 0.9 PICOCURIES PER LITER

EDWARD F. MAHER, MAJOR, USAF, BSC DATE COMPLETED 16-APR-86
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

PRESERVATION GROUP	☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	ND-NONE	
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

RADIOLOGICAL SAMPLING DATA				REF: USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER 0133--20-015			
				BASE 110000 AFSCN		ORGANIZATION	
				WORKPLACE OR SITE 110000 S.C.			
DATE COLLECTED (YYMMDD) 12/01/11		TIME COLLECTION BEGAN (24 hour clock)		BLDG NO/LOCATION 1201		ROOM/AREA 2/H	
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133	REF: 110000/SCPS 110000, CA 2111-5300				
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC) 110000 110000				SIGNATURE 110000		AUTOVON 461-3515	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP	
		R-ROUTINE BACKGROUND/PERIODIC SURVEY		O-OTHER (specify)		N-NPDES	
EMPLOYEE NAME 110000				EMPLOYEE SSAN			
BASE SAMPLE NUMBER 01330620				REF: 110000/SCPS 110000, CA 2111-5300			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)				NP-NONE	
		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)					
ANALYSES REQUESTED							
☒ GROSS ALPHA		☐ CARBON 14		☐ PLUTONIUM		☐ STRONTIUM	
☐ GROSS BETA		☐ TRITIUM		☐ RADIUM		☐ DRINKING WATER STANDARDS (AFR 161-44)	
☐ GAMMA		☐ URANIUM		☐ RADON			
☐ OTHER (specify)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

 11-FEB-86 R133Z | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
 MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | OEHL NUMBER
 GP 86 0020 | DRINKING WATER | 03-FEB-86 | 18600255

GROSS ALPHA <1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

DATE COMPLETED 05-FEB-86

		G-Gas/Air, Compressed	W-Surface Contaminant
PRESERVATION GROUP	☒ ☐	R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	ND-NONE
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

RADIOLOGICAL SAMPLING DATA			
<i>(Use this space for mechanical imprint)</i>			
WORKPLACE OR SITE IDENTIFIER 0133		PD 015	
BASE Moody AFB Ga		ORGANIZATION 347TFW	
WORKPLACE OR SITE Receiver site			
DATE COLLECTED (YYMMDD) 8/6/07/2/2		TIME COLLECTION BEGAN (24 hour clock)	
BLDG NO./LOCATION 1501		ROOM/AREA N/A	
MAIL REPORTS TO (Circle if changed)	ORIGINAL 0133	USAF HOSP/SGPB Moody AFB Ga 31699-5300	
	COPY 1		
	COPY 2		
SAMPLE COLLECTED BY (Name, Grade, AFSC) NORMAN W. LAIRD, AIC, 94750		SIGNATURE Norman W. Laird	
AUTOVON 400-3505			
REASON FOR SUBMISSION R			
A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP N-NPDES R-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER (Specify)			
EMPLOYEE NAME N/A		EMPLOYEE SSN	
EMPLOYEE WEIGHT LBS.		AGE	
SEX ☐ MALE ☐ FEMALE			
BASE SAMPLE NUMBER GP 86 0247			
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable	
PRESERVATION GROUP NB		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) N9-NONE	
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)			
AIR FILTER DATA		COLLECTION TIME min	
FLOW RATE		VOLUME COLLECTED	
REMARKS			

50 R133Z		SAMPLE ANALYSIS RESULTS	
USAF HOSP MOODY/SGPB MOODY AFB GA 31601-5300		USAF OCCUPATIONAL AND ENVIRONMENTAL HEALTH LABORATORY (AFSC) BROOKS AFB, TEXAS 78235-5501	
IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	QERL NUMBER
CP 83 0247	DRINKING WATER	29-JUL-86	16601411
GROSS ALPHA	<1	PICOCURIES PER LITER	
ABOVE SAMPLE COMPLIES WITH AFR 161-44 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO DETERMINE COMPLIANCE WITH AFR 161-44			
EDWARD F. MAHER, MAJOR, USAF, BSC CHIEF, RADIANALYTICAL SERVICES BR. AUTOVON 240-2061		DATE COMPLETED 15-AUG-86	

V-Single Vial T-24 Hour Void W-Wipe/Swipe O-Other	B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed	D-Residue/Debris L-Sludge S-Soil W-Surface Contaminant	N-Water, Nonpotable P-Water, Potable
PRESERVATION GROUP W ☒	R1-NITRIC ACID, PH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, PH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		
ANALYSES REQUESTED			
☒ GROSS ALPHA ☐ GROSS BETA ☐ OTHER (specify)	☐ GAMMA ☐ CARBON 14	☐ TRITIUM ☐ URANIUM	☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM
☐ DRINKING WATER STANDARDS (AFR 161-44)			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

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RADIOLOGICAL SAMPLING DATA																																							
(Use this space for mechanical imprint)					WORKPLACE OR SITE IDENTIFIER 0133 AD 015																																		
					BASE Moody AFB, Ga					ORGANIZATION																													
DATE COLLECTED (YYMMDD) 816110114					TIME COLLECTION BEGAN (24 hour clock) 1035					BLDG NO./LOCATION 1501					ROOM/AREA -																								
MAIL REPORTS TO (Circle if changed)	ORIGINAL		0133		USAF HOSP/SGPB Moody AFB, Ga 31644-S300																																		
	COPY 1																																						
	COPY 2																																						
SAMPLE COLLECTED BY (Name, Grade, AFSC) Norman W. Laird, AIC, 90750										SIGNATURE Norman W. Laird										AUTOVON 460-3505																			
REASON FOR SUBMISSION		R		A-ACCIDENT/INCIDENT C-COMPLAINT F-FOLLOWUP/CLEANUP N-NPDES										R-ROUTINE BACKGROUND/PERIODIC SURVEY O-OTHER (Specify)																									
EMPLOYEE NAME										EMPLOYEE SSN										SEX																			
EMPLOYEE WEIGHT										LBS.										AGE										SEX ☐ MALE ☐ FEMALE									
BASE SAMPLE NUMBER										GP 860321																													
COLLECTION METHOD (enter letter code)										SAMPLE TYPE (enter letter code)																													
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other										X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed										H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant										C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable									
PRESERVATION GROUP										N										R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)										N9-NONE									
ANALYSES REQUESTED																																							
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify) _____																																							
AIR FILTER DATA										COLLECTION TIME min										FLOW RATE										VOLUME COLLECTED									
REMARKS																																							

NOV-86

R133Z

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0321	DRINKING WATER	27-OCT-86	18601767
GROSS ALPHA	2 +/- 1	PICOCURIES PER LITER	

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 07-NOV-86

V-Single Void
T-24 Hour Void
W-Wipe/Swipe
O-Other

Z-Air, Breathing Zone
B-Blood
O-Biological, Other
F-Food
G-Gas/Air, Compressed

M-Industrial Material
R-Nasal Swab
D-Residue/Ash
L-Sludge
S-Soil
W-Surface Contaminant

U-Urine
V-Vegetation
T-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, Potable

PRESERVATION
GROUP



R1-NITRIC ACID, pH < 2.0 (plastic container)
R2-HYDROCHLORIC ACID, pH < 2.0 (with Na₂S₂O₃ in glass container)
N#-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify) _____					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA				FILL IN ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER			
				BASE		ORGANIZATION	
				WORKPLACE OR SITE			
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLOG NO/LOCATION		ROOM/AREA	
MAIL REPORTS TO (circle if changed)	ORIGINAL						
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT R-ROUTINE BACKGROUND/PERIODIC SURVEY		C-COMPLAINT O-OTHER (specify)		F-FOLLOWUP/CLEANUP N-NPDES	
EMPLOYEE NAME				EMPLOYEE SSAN			
BASE SAMPLE NUMBER				SAMPLE TYPE			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) ND-NONE					
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify)							
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM							
☐ PLUTONIUM ☐ RADIUM ☐ RADON							
☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 162-44)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

 -FEB-86 R133Z | SAMPLE ANALYSIS RESULTS |

USAF HOSP MOODY/SGPB
 MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

=====

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GP 86 0017	DRINKING WATER	03-FEB-86	18600252

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GROSS ALPHA <1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

DATE COMPLETED 05-FEB-86

PRESERVATION GROUP ☒		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		ND-NONE	
ANALYSES REQUESTED					
☒ GROSS ALPHA		☐ CARBON 14		☐ PLUTONIUM	
☐ GROSS BETA		☐ TRITIUM		☐ RADIUM	
☐ GAMMA		☐ URANIUM		☐ RADON	
☐ OTHER (specify) _____		☐ STRONTIUM		☐ DRINKING WATER STANDARDS (AFR 161-44)	
AIR FILTER DATA		COLLECTION TIME min	FLOW RATE		VOLUME COLLECTED
COMMENTS					

RADIOLOGICAL SAMPLING DATA				DEHL USE ONLY															
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER				0133				1/2 PD				0013			
				BASE				MOODY AFB, GA				ORGANIZATION				USAF HOSP			
				WORKPLACE OR SITE				GRASSY FEND											
DATE COLLECTED (YYMMDD)				TIME COLLECTION BEGAN (24 hour clock)				BLDG NO/LOCATION				ROOM/AREA							
18,610410,21								CARIN				N/A							
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133				USAF HOSP/SGFIS MOODY AFB, GA 31699-5300													
	COPY 1																		
	COPY 2																		
SAMPLE COLLECTED BY (Name, Grade, AFSC)								SIGNATURE				AUTOVON							
ROBERT SCHAFF, ANN, 90750								Robert Schaff				466-3505							
REASON FOR SUBMISSION				A-ACCIDENT/INCIDENT				C-COMPLAINT				F-FOLLOWUP/CLEANUP				N-NPDES			
				R-ROUTINE BACKGROUND/PERIODIC SURVEY				O-OTHER (specify)											
EMPLOYEE NAME								EMPLOYEE SSAN											
N/A																			
BASE SAMPLE NUMBER				GP 86 2109				DEHL PID NUMBER (DEHL use only)											
COLLECTION METHOD (enter letter code)				SAMPLE TYPE (enter letter code)															
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other				X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable															
PRESERVATION GROUP				R1-NITRIC ACID, pH < 2.0 (plastic container)								R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)				ND-NONE			
N/A																			
ANALYSES REQUESTED																			
☒ GROSS ALPHA ☐ CARBON 14 ☐ PLUTONIUM ☐ STRONTIUM ☐ GROSS BETA ☐ TRITIUM ☐ RADIUM ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GAMMA ☐ URANIUM ☐ RADON ☐ OTHER (specify) _____																			
AIR FILTER DATA				COLLECTION TIME min				FLOW RATE				VOLUME COLLECTED							
COMMENTS																			

11-APR-86

R133P

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGF
MOODY AFB GA 31601-5300USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

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IDENTIFICATION

TYPE OF SAMPLE

DATE RECEIVED

QHL NUMBER

GP 66 0109

WATER

09-APR-86

15600400

GROSS ALPHA

4.7

+/- 1.3

PICOCURIES PER LITER

=====

EDWARD F. MAHER, MAJOR, USAF, BSC

DATE COMPLETED 16-APR-86

CHIEF, RADIONALYTICAL SERVICES SR.

AUTOVON 240-2061

PRESERVATION GROUP	☒ R1-NITRIC ACID, pH < 2.0 (plastic container)	NO-NONE	
	R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

RADIOLOGICAL SAMPLING DATA				DATE COLLECTED (YYMMDD)																											
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER 0133 PD 013																											
				BASE Moody AFB Co				ORGANIZATION 347 TFW																							
				WORKPLACE OR SITE Grossy Pond																											
DATE COLLECTED (YYMMDD) 8161071212				TIME COLLECTION BEGAN (24 hour clock)				BLDG NO./LOCATION bldg 2019				ROOM/AREA N/A																			
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133			USAF Hosp/SGPB Moody AFB Co 31694-5300																										
	COPY 1																														
	COPY 2																														
SAMPLE COLLECTED BY (Name, Grade, AFSC) NORMAN W. LAIRD, AIC, 90750								SIGNATURE Norman W. Laird								AUTOVON 460-3505															
REASON FOR SUBMISSION ☒ R				A-ACCIDENT/INCIDENT				C-COMPLAINT				F-FOLLOWUP/CLEANUP				N-NPDES															
				B-ROUTINE BACKGROUND/PERIODIC SURVEY				O-OTHER (Specify)																							
EMPLOYEE NAME N/A								EMPLOYEE SSN																							
EMPLOYEE WEIGHT								LBS.								AGE								SEX ☐ MALE ☐ FEMALE							
BASE SAMPLE NUMBER GP 86 0244								GENL PID NUMBER (FOR USE ONLY)																							
COLLECTION METHOD (enter letter code)				SAMPLE TYPE (enter letter code)																											
C-Composite				X-Air, Ambient/Gen. Area				H-Human				C-Unclassified/Other																			
G-Grab				Y-Air, Emission, Source				M-Industrial Material				U-Urine																			
V-Single Void				Z-Air, Breathing Zone				R-Nasal Swab				V-Vegetation																			
T-24 Hour Void				B-Blood				D-Residue/Ash				T-Waste, Hazardous, Toxic																			
W-Wipe/Swipe				O-Biological, Other				L-Sludge				N-Water, Nonpotable																			
O-Other				F-Food				S-Soil				P-Water, Potable																			
				G-Gas/Air, Compressed				W-Surface Contaminant																							
PRESERVATION GROUP ☒ N ☒ D				R1-NITRIC ACID, pH < 2.0 (plastic container)				N9-NONE																							
				R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)																											
ANALYSES REQUESTED																															
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify) _____																															
AIR FILTER DATA				COLLECTION TIME min				FLOW RATE				VOLUME COLLECTED																			
REMARKS																															

 -86 R133Z | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
 MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	DEHL NUMBER
GP 86 0244	DRINKING WATER	29-JUL-86	13601408
GROSS ALPHA 1 +/- 1 PICOCURIES PER LITER			

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

DATE COMPLETED 08-AUG-86

V-Single Void
 T-24 Hour Void
 W-Wipe/Swipe
 O-Other

Z-Air, Breathing Zone
 B-Blood
 O-Biological, Other
 F-Food
 G-Gas/Air, Compressed

R-Nasal Swab
 D-Residue/Ash
 L-Sludge
 S-Soil
 W-Surface Contaminant

V-Vegetation
 T-Waste, Hazardous, Toxic
 N-Water, Nonpotable
 P-Water, Potable

PRESERVATION
 GROUP

☒ N ☒ D

R1-NITRIC ACID, pH < 2.0 (plastic container)

N9-NONE

R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container)

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify)					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA									
(Use this space for mechanical imprint)					WORKPLACE OR SITE IDENTIFIER 0133 PD 013				
					BASE Moody AFB, Ga			ORGANIZATION	
DATE COLLECTED (YYMMDD) 8/6/10/14					TIME COLLECTION BEGAN (24 hour clock) 0940		BLDG NO./LOCATION Bldg 2019		ROOM/AREA
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0	1	3	3	USAF HOSP/SGPB Moody AFB, Ga 31699-5300			
	COPY 1								
	COPY 2								
SAMPLE COLLECTED BY (Name, Grade, AFSC) NORMAN W. LAIRD, AIC, 90750					SIGNATURE Norman W. Laird			AUTOVON 460-3505	
REASON FOR SUBMISSION R		A-ACCIDENT/INCIDENT			C-COMPLAINT			F-FOLLOWUP/CLEANUP	
		R-ROUTINE BACKGROUND/PERIODIC SURVEY			O-OTHER (Specify)			N-NPDES	
EMPLOYEE NAME					EMPLOYEE SSN				
EMPLOYEE WEIGHT LBS.					AGE		SEX ☐ MALE ☐ FEMALE		
BASE SAMPLE NUMBER GN 86 0319									
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable						
PRESERVATION GROUP N 0		R1-NITRIC ACID, pH < 2.0 (plastic container) N#-NONE R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)							
ANALYSES REQUESTED									
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)									
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED			
REMARKS									

 0V-86 R133Z | SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
 MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
 HEALTH LABORATORY (AFSC)
 BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	OEHL NUMBER
GN 86 0319	WATER	27-OCT-86	18601765
GROSS ALPHA 1.0 +/- 1.0 PICOCURIES PER LITER			

EDWARD F. MAHER, MAJOR, USAF, BSC
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

DATE COMPLETED 07-NOV-86

V-Single Void
 T-24 Hour Void
 W-Wipe/Smear
 O-Other

Z-Air, breathing zone
 B-Blood
 O-Biological, Other
 F-Food
 G-Gas/Air, Compressed

D-Residue/Ash
 L-Sludge
 S-Soil
 W-Surface Contaminant

T-Waste, Hazardous, Toxic
 N-Water, Nonpotable
 P-Water, Potable

PRESERVATION
 GROUP



R1-NITRIC ACID, pH < 2.0 (plastic container)
 R2-HYDROCHLORIC ACID, pH < 2.0 (with Na₂S₂O₃ in glass container)
 N9-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA	☐ GAMMA	☐ TRITIUM	☐ PLUTONIUM	☐ RADON	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA	☐ CARBON 14	☐ URANIUM	☐ RADIUM	☐ STRONTIUM	
☐ OTHER (specify)					

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA				WORKPLACE OR SITE IDENTIFIER			
(Use this space for mechanical imprint)				C1B3--PD-013			
DATE COLLECTED (YYMMDD)				TIME COLLECTION BEGAN (24 hour clock)			
18 JUN 71				11:42			
MAIL REPORTS TO				WORKPLACE OR SITE			
ORIGINAL				3149			
COPY 1				N/A			
COPY 2				N/A			
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE			
K. J. Smith, 9173				[Signature]			
REASON FOR SUBMISSION				AUTOVON			
☒ A-ACCIDENT/INCIDENT ☐ C-COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ N-NPDES ☐ R-ROUTINE BACKGROUND/PERIODIC SURVEY ☐ O-OTHER (specify)				46-245			
EMPLOYEE NAME				EMPLOYEE SSAN			
A/A							
BASE SAMPLE NUMBER							
C P 86 0018							
COLLECTION METHOD (enter letter code)				SAMPLE TYPE (enter letter code)			
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other				X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable			
PRESERVATION GROUP				R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container) NP-NONE			
ANALYSES REQUESTED							
☐ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify)				☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☒ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)			
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

 11-FEB-86 R133Z | SAMPLE ANALYSIS RESULTS

 USAF HOSP MOODY/SGPB | USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 | HEALTH LABORATORY (AFSC)
 | BROOKS AFB, TEXAS 78235-5501
 =====

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | OEHL NUMBER

 GP 86 0018 | DRINKING WATER | 03-FEB-86 | 18600253
 =====
 GROSS ALPHA <1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
 CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
 DETERMINE COMPLIANCE WITH AFR 161-44

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EDWARD F. MAHER, MAJOR, USAF, BSC	DATE COMPLETED 05-FEB-86
CHIEF, RADIOANALYTICAL SERVICES BR.	
AUTOVDN 240-2061	

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PRESERVATION GROUP ☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		NP-NONE																	
ANALYSES REQUESTED <table border="0"> <tr> <td>☐ GROSS ALPHA</td> <td>☐ CARBON 14</td> <td>☐ PLUTONIUM</td> <td>☒ STRONTIUM</td> </tr> <tr> <td>☐ GROSS BETA</td> <td>☐ TRITIUM</td> <td>☐ RADIUM</td> <td>☐ DRINKING WATER STANDARDS (AFR 161-44)</td> </tr> <tr> <td>☐ GAMMA</td> <td>☐ URANIUM</td> <td>☐ RADON</td> <td></td> </tr> <tr> <td colspan="4">☐ OTHER (specify) _____</td> </tr> </table>				☐ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☒ STRONTIUM	☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)	☐ GAMMA	☐ URANIUM	☐ RADON		☐ OTHER (specify) _____			
☐ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☒ STRONTIUM																
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)																
☐ GAMMA	☐ URANIUM	☐ RADON																	
☐ OTHER (specify) _____																			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED																
COMMENTS																			

RADIOLOGICAL SAMPLING DATA				GENL USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER		0133 00PD 0013	
				BASE		ORGANIZATION	
				MOODY AFB, CA 31699		USAF HOSP	
DATE COLLECTED (YYMMDD) 18.6.10.41.921				TIME COLLECTION BEGAN (24 hour clock)		BLOG NO/LOCATION CRASSY PND (PND WATER) N/A	
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133	USAF HOSP/SCPB MOODY AFB, CA 31699-5300				
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC) ROBERT SCHAFF, HNN, 90750				SIGNATURE Robert Schaff		AUTOVON 411-3545	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT R-ROUTINE BACKGROUND/PERIODIC SURVEY		C-COMPLAINT F-FOLLOWUP/CLEANUP		O-OTHER (specify) N-NPDES	
EMPLOYEE NAME N/A				EMPLOYEE SSAN			
BASE SAMPLE NUMBER		GP 86 0110		GENL PID NUMBER (GENL use only)			
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container) ND-NONE					
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ CARBON 14 ☐ PLUTONIUM ☐ STRONTIUM ☐ GROSS BETA ☐ TRITIUM ☐ RADIUM ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GAMMA ☐ URANIUM ☐ RADON ☐ OTHER (specify) _____							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

 25-APR-86 R13CP | SAMPLE ANALYSIS RESULTS |

 USAF HOSP MOODY/33P | USAF OCCUPATIONAL AND ENVIRONMENTAL
 MOODY AFB GA 31601-5300 | HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | GEL NUMBER

 CP 52 0110 | WATER | 05-APR-86 | 19800401

 GROSS ALPHA | 41.0 | |
 | | | MICROCURIES PER LITER

 EDWARD F. MAHER, MAJOR, USAF, BSC | DATE COMPLETED 16-APR-86
 CHIEF, RADIOANALYTICAL SERVICES BR.
 AUTOVON 240-2061

PRESERVATION GROUP	☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	NO-NONE	
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

RADIOLOGICAL SAMPLING DATA									
(Use this space for mechanical imprint)									
WORKPLACE OR SITE IDENTIFIER 0133 PD 013					BASE MOODY AFB Ga ORGANIZATION 347 TFW				
WORKPLACE OR SITE Grassy Pond									
DATE COLLECTED (YYMMDD) 8/6/07 12/12			TIME COLLECTION BEGAN (24 hour clock)			SLOG NO./LOCATION		ROOM/AREA Pond water	
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133	USAF HUSP/SGPB MOODY AFB Ga 31699-5300						
	COPY 1								
	COPY 2								
SAMPLE COLLECTED BY (Name, Grade, AFSC) NORMAN W. LAIRD, AIC, 90750					SIGNATURE Norman W. Laird			AUTOVON 460-3505	
REASON FOR SUBMISSION	☒ R	☒ A-ACCIDENT/INCIDENT		☐ C-COMPLAINT		☐ F-FOLLOWUP/CLEANUP		☐ N-NPDES	
☒ B-ROUTINE BACKGROUND/PERIODIC SURVEY ☐ O-OTHER (Specify)									
EMPLOYEE NAME N/A					EMPLOYEE SSN				
EMPLOYEE WEIGHT LBS.					AGE		SEX ☐ MALE ☐ FEMALE		
BASE SAMPLE NUMBER GN 860245					DATE, TIME, LOCATION				
COLLECTION METHOD (enter letter code) C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			SAMPLE TYPE (enter letter code) X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable						
PRESERVATION GROUP ☒ A ☒ B			R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container) N9-NONE						
ANALYSES REQUESTED									
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)									
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED			
REMARKS									

86

R133Z

SAMPLE ANALYSIS RESULTS

AF HOSP MOODY/SGPB
MOODY AFB GA 31601-5300USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION

TYPE OF SAMPLE

DATE RECEIVED

DEHL NUMBER

GN 86 0245

WATER

29-JUL-86

18601409

GROSS ALPHA

<0.5

PICOCURIES PER LITER

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 08-AUG-86

T-24 Hour Void
W-Wipe/Swipe
O-OtherB-Blood
O-Biological, Other
F-Food
G-Gas/Air, CompressedD-Residue/Ash
L-Sludge
S-Soil
W-Surface ContaminantT-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, PotablePRESERVATION
GROUP

N O

R1-NITRIC ACID, pH < 2.0 (plastic container)

N9-NONE

R2-HYDROCHLORIC ACID, pH < 2.0 (with Na₂S₂O₃ in glass container)

ANALYSES REQUESTED

☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS
☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM
☐ OTHER (specify) _____

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA

(Use this space for mechanical imprint)

WORKPLACE
OR SITE
IDENTIFIER

0133

PD

013

BASE

Moody AFB, Ga

ORGANIZATION

WORKPLACE OR SITE

Grassy Pond

DATE COLLECTED (YYMMDD)

8/6/01/14

TIME COLLECTION BEGAN (24 hour clock)

0940

BLDG NO./LOCATION

ROOM/AREA

Pond Water

MAIL
REPORTS
TO
(Circle if
changed)

ORIGINAL

0133

USAF HOSP/SGAB Moody AFB, Ga 31699-5300

COPY 1

COPY 2

SAMPLE COLLECTED BY (Name, Grade, AFSC)

Norman W. Laird, AIC, 90750

SIGNATURE

Norman W. Laird

AUTOVON

460-3505

REASON FOR
SUBMISSION

R

A-ACCIDENT/INCIDENT

C-COMPLAINT

F-FOLLOWUP/CLEANUP

N-NPDES

R-ROUTINE BACKGROUND/PERIODIC SURVEY

O-OTHER (Specify)

EMPLOYEE NAME

EMPLOYEE SSN

EMPLOYEE WEIGHT

LBS

AGE

SEX

MALE

FEMALE

BASE SAMPLE NUMBER

GA 86 0318

COLLECTION METHOD
(enter letter code)

C-Composite
G-Grab
V-Single Void
T-24 Hour Void
W-Wipe/Smear
O-Other

SAMPLE TYPE
(enter letter code)

X-Air, Ambient/Gen. Area
Y-Air, Emission, Source
Z-Air, Breathing Zone
B-Blood
O-Biological, Other
F-Food
G-Gas/Air, Compressed

H-Human
M-Industrial Material
R-Nasal Swab
D-Residue/Ash
L-Sludge
S-Soil
W-Surface Contaminant

C-Unclassified/Other
U-Urine
V-Vegetation
T-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, Potable

PRESERVATION
GROUP

N0

R1-NITRIC ACID, PH < 2.0 (plastic container)

N0-NONE

R2-HYDROCHLORIC ACID, PH < 2.0 (with Na2S2O3 in glass container)

ANALYSES REQUESTED

☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM
☐ OTHER (specify)

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

NOV-86

R133Z

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | OEHL NUMBER

GN 86 0318 | WATER | 27-OCT-86 | 18601764

GROSS ALPHA 1.0 +/- 1.0 PICOCURIES PER LITER

EDWARD F. MAHER, MAJOR, USAF, BSC
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

DATE COMPLETED 07-NOV-86

V-Single Void
T-24 Hour Void
W-Wipe/Swipe
O-Other

Z-Air, Breathing Zone
B-Blood
O-Biological, Other
F-Food
G-Gas/Air, Compressed

R-Nasal Swab
D-Residue/Ash
L-Sludge
S-Soil
W-Surface Contaminant

V-Vegetation
T-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, Potable

PRESERVATION
GROUP

NØ

R1-NITRIC ACID, pH < 2.0 (plastic container)

R2-HYDROCHLORIC ACID, pH < 2.0 (with $\text{Na}_2\text{S}_2\text{O}_3$ in glass container)

NØ-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM
☐ OTHER (specify) _____

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

RADIOLOGICAL SAMPLING DATA				GENL USE ONLY			
(Use this space for mechanical imprint)				WORKPLACE OR SITE IDENTIFIER			
				0133--PD-010			
				BASE		ORGANIZATION	
				Moodw AFB GA 31699		USAF IKSP	
				WORKPLACE/OR SITE			
				Hospital well #			
DATE COLLECTED (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)		BLOG NO/LOCATION		ROOM/AREA	
18.01.11.17				900		N/A	
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133	USAF HOSP/SGPD PICKY NEB, GA 31699-5300				
	COPY 1						
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
Robert Schmitt, GAIN, 90730				Robert Schmitt		460-3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT		C-COMPLAINT		F-FOLLOWUP/CLEANUP	
[R]		R-ROUTINE BACKGROUND/PERIODIC SURVEY		O-OTHER (specify)		N-NPDES	
EMPLOYEE NAME				EMPLOYEE SSAN			
N/A							
BASE SAMPLE NUMBER		GP 86 0013		GENL PID NUMBER (GENL use only)			
COLLECTION METHOD (enter letter code)		SAMPLE TYPE (enter letter code)					
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other		X-Air, Ambient/Gen. Area Y-Air, Emission, Source Z-Air, Breathing Zone B-Blood O-Biological, Other F-Food G-Gas/Air, Compressed H-Human M-Industrial Material R-Nasal Swab D-Residue/Ash L-Sludge S-Soil W-Surface Contaminant C-Unclassified/Other U-Urine V-Vegetation T-Waste, Hazardous, Toxic N-Water, Nonpotable P-Water, Potable					
PRESERVATION GROUP		R1-NITRIC ACID, pH < 2.0 (plastic container)				ND-NONE	
[N2]		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)					
ANALYSES REQUESTED							
☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____							
☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (AFR 161-44)							
AIR FILTER DATA		COLLECTION TIME min		FLOW RATE		VOLUME COLLECTED	
COMMENTS							

11-FEB-86

R133Z

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGFB

MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)

BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION : TYPE OF SAMPLE : DATE RECEIVED : CERN NUMBER

GP 86 0013

DRINKING WATER

03-FEB-86

18600248

GROSS ALPHA

<1

PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44

CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO

DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC

CHIEF, RADIOANALYTICAL SERVICES BR.

AUTOVON 240-2061

DATE COMPLETED 05-FEB-86

		G-Gas/Air, Compressed	W-Surface Contaminant
PRESERVATION GROUP	☒ ☐	R1-NITRIC ACID, pH < 2.0 (plastic container)	ND-NONE
		R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	
ANALYSES REQUESTED			
☒ GROSS ALPHA	☐ CARBON 14	☐ PLUTONIUM	☐ STRONTIUM
☐ GROSS BETA	☐ TRITIUM	☐ RADIUM	☐ DRINKING WATER STANDARDS (AFR 161-44)
☐ GAMMA	☐ URANIUM	☐ RADON	
☐ OTHER (specify) _____			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
COMMENTS			

SAMPLE ANALYSIS RESULTS

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	GEHL NUMBER
GP 86 0105	WATER	09-APR-86	18600396
GROSS ALPHA	4.9	PICOCURIES PER LITER	

EDWARD F. MAHER, MAJOR, USAF, BSC	DATE COMPLETED 18-APR-86
CHIEF, RADIODANALYTICAL SERVICES BR.	
AUTOVON 240-2061	

PRESERVATION GROUP N/A	R1-NITRIC ACID, pH < 2.0 (plastic container) R2-HYDROCHLORIC ACID, pH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)	NØ-NONE
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ GROSS BETA ☐ GAMMA ☐ OTHER (specify) _____ ☐ CARBON 14 ☐ TRITIUM ☐ URANIUM ☐ PLUTONIUM ☐ RADIUM ☐ RADON ☐ STRONTIUM ☐ DRINKING WATER STANDARDS (APR 161-44)		
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE
VOLUME COLLECTED		
COMMENTS		

RADIOLOGICAL SAMPLING DATA												
(Use this space for mechanical imprint)					WORKPLACE OR SITE IDENTIFIER		0133		PD	010		
					BASE		Moody AFB, Ga		ORGANIZATION		347 TFW	
					WORKPLACE OR SITE		USAF Hospital		Moody AFB			
DATE COLLECTED (YYMMDD)			TIME COLLECTION BEGAN (24 hour clock)			BLDG NO./LOCATION		ROOM/AREA				
8/6/07/2/2						900		Bio Lab				
MAIL REPORTS TO (Circle if changed)	ORIGINAL	0133		USAF Hosp/SGPB Moody AFB, Ga. 31699-5300								
	COPY 1											
	COPY 2											
SAMPLE COLLECTED BY (Name, Grade, AFSC)					SIGNATURE		AUTOVON					
NORMAN W LAIRD, A1C, 90750					Norman W Laird		460-3505					
REASON FOR SUBMISSION		☒ A-ACCIDENT/INCIDENT ☐ C-COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ N-NPDES ☐ R-ROUTINE BACKGROUND/PERIODIC SURVEY ☐ O-OTHER (Specify)										
EMPLOYEE NAME					EMPLOYEE SSN		SEX					
N/A							☐ MALE ☐ FEMALE					
EMPLOYEE WEIGHT			LBS.			AGE						
BASE SAMPLE NUMBER			GP 86 0240			OBSERVED EXPOSURE (State time limits)						
COLLECTION METHOD (enter letter code)			SAMPLE TYPE (enter letter code)									
C-Composite G-Grab V-Single Void T-24 Hour Void W-Wipe/Swipe O-Other			X-Air, Ambient/Gen. Area H-Human C-Unclassified/Other Y-Air, Emission, Source M-Industrial Material U-Urine Z-Air, Breathing Zone R-Nasal Swab V-Vegetation B-Blood D-Residue/Ash T-Waste, Hazardous, Toxic O-Biological, Other L-Sludge N-Water, Nonpotable F-Food S-Soil P-Water, Potable G-Gas/Air, Compressed W-Surface Contaminant									
PRESERVATION GROUP		☒ R1-NITRIC ACID, pH < 2.0 (plastic container) ☐ N9-NONE ☐ R2-HYDROCHLORIC ACID, pH < 2.0 (with Na2S2O3 in glass container)										
ANALYSES REQUESTED												
☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)												
AIR FILTER DATA		COLLECTION TIME		FLOW RATE		VOLUME COLLECTED						
		min										
REMARKS												

R1332

SAMPLE ANALYSIS RESULTS

GP MOODY/SGPB
AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION	TYPE OF SAMPLE	DATE RECEIVED	DEHL NUMBER
GP 86 0240	DRINKING WATER	29-JUL-86	18601404
GROSS ALPHA	1 +/- 1	PICOCURIES PER LITER	

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC CHIEF, RADIOANALYTICAL SERVICES BR. AUTOVON 240-2061	DATE COMPLETED 08-AUG-86
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T-24 Hour Void W-Wipe/Swipe O-Other	O-Biological, Other F-Food G-Gas/Air, Compressed	L-Sludge S-Soil W-Surface Contaminant	P-Water, Potable
PRESERVATION GROUP	R1-NITRIC ACID, PH < 2.0 (plastic container) N5-NONE R2-HYDROCHLORIC ACID, PH < 2.0 (with Na ₂ S ₂ O ₃ in glass container)		
ANALYSES REQUESTED ☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS (AFR 161-44) ☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM ☐ OTHER (specify)			
AIR FILTER DATA	COLLECTION TIME min	FLOW RATE	VOLUME COLLECTED
REMARKS			

OV-86

R133Z

SAMPLE ANALYSIS RESULTS

USAF HOSP MOODY/SGPB
MOODY AFB GA 31601-5300

USAF OCCUPATIONAL AND ENVIRONMENTAL
HEALTH LABORATORY (AFSC)
BROOKS AFB, TEXAS 78235-5501

IDENTIFICATION | TYPE OF SAMPLE | DATE RECEIVED | OEHL NUMBER

GP 86 0314 | DRINKING WATER | 27-OCT-86 | 18601760

GROSS ALPHA 1 +/- 1 PICOCURIES PER LITER

ABOVE SAMPLE COMPLIES WITH AFR 161-44
CHECK ANNUAL AVERAGE OF RESULTS FOR THIS SITE TO
DETERMINE COMPLIANCE WITH AFR 161-44

EDWARD F. MAHER, MAJOR, USAF, BSC | DATE COMPLETED 07-NOV-86
CHIEF, RADIOANALYTICAL SERVICES BR.
AUTOVON 240-2061

V-Single Void
T-24 Hour Void
W-Wipe/Swipe
O-Other

Z-Air, Breathing Zone
B-Blood
O-Biological, Other
F-Food
G-Gas/Air, Compressed

H-Nasal Swab
D-Residue/Ash
L-Sludge
S-Soil
W-Surface Contaminant

V-Vegetation
T-Waste, Hazardous, Toxic
N-Water, Nonpotable
P-Water, Potable

PRESERVATION
GROUP



R1-NITRIC ACID, pH < 2.0 (plastic container)
R2-HYDROCHLORIC ACID, pH < 2.0 (with Na₂S₂O₃ in glass container)

NG-NONE

ANALYSES REQUESTED

☒ GROSS ALPHA ☐ GAMMA ☐ TRITIUM ☐ PLUTONIUM ☐ RADON ☐ DRINKING WATER STANDARDS
☐ GROSS BETA ☐ CARBON 14 ☐ URANIUM ☐ RADIUM ☐ STRONTIUM
☐ OTHER (specify)

AIR FILTER DATA

COLLECTION TIME

min

FLOW RATE

VOLUME COLLECTED

REMARKS

27 SEP 1985

FROM: USAF OEH/EA
BROOKS AFB TX 78235 - 5501DATE RECEIVED
17 SEP 1985

LAB CONTROL NO

WATER

SAMPLE FROM

TEST FOR

Volatile Halocarbons

Methodology: EPA Method 601 WELL #7

OEH NO:	C5206				DET.
BASE NO:	GPFS0165				LIMIT
Bromodichloromethane	NO				0.1
Bromoform					0.2
Bromomethane					1.0
Carbon Tetrachloride					0.1
Chlorobenzene					0.2
Chloroethane					0.5
2-Chloroethylvinyl ether					0.1
Chloroform					0.1
Chloromethane					0.1
Dibromochloromethane					0.1
1,2-Dichlorobenzene					0.2
1,3-Dichlorobenzene					0.2
1,4-Dichlorobenzene					0.2
Dichlorodifluoromethane					0.1
1,1-Dichloroethane					0.2
1,2-Dichloroethane					0.2
1,1-Dichloroethene					0.1
trans-1,2-Dichloroethene					0.1
1,2-Dichloropropane					0.1
cis-1,3-Dichloropropene					0.2
trans-1,3-Dichloropropene					0.2
Methylene Chloride					0.2
1,1,2,2-Tetrachloroethane					0.1
Tetrachloroethylene					0.1
1,1,1-Trichloroethane					0.1
1,1,2-Trichloroethane					0.1
Trichloroethylene					0.1
Trichlorofluoromethane					0.1
Vinyl Chloride					0.2

Results in Micrograms per Liter

DATE ANALYZED: 19 SEP 1985

- ERIC A. BANKS, Capt, USAF
Chemist

Edward J. Brown

30 SEP 1985

REQUESTING AGENCY (Including Address)

USAF HOSP/SGPB

MOODY AFB GA

31699-5300

ND-NONE DETECTED, LESS THAN THE DETECTION LIMIT.

TRACE-PRESENT BUT LESS THAN THE QUANTITATIVE LIMIT.

TRACE - 2 times Detection Limit.

LABORATORY ANALYSIS REPORT AND RECORD (General)

DATE
25 SEP 1985

FROM: USAF OEHL/SA
Brooks AFB TX 78235-5502

SAMPLE IDENTITY

Water
SAMPLE FROM

DATE RECEIVED
17 SEP 1985
LAB CONTROL NO.

TEST FOR
Volatile Aromatics

Methodology: EPA 602

OEHL NO:	65207				Detection Limit	
BASE NO:	6P850165				ND	TR
Benzene	ND				1.0	2.0
Chlorobenzene					1.0	2.0
1,2-Dichlorobenzene					2.0	3.0
1,3-Dichlorobenzene					2.0	3.0
1,4-Dichlorobenzene					2.0	3.0
Ethylbenzene					1.0	2.0
Toluene					1.0	2.0

Results in micrograms per liter.

ND-None Detected. Less than the detection limit.

TRACE-Present but less than the quantitative limit.

DATE ANALYZED: 24 SEP 1985

Edward J. Brown

25 SEP 1985

REQUESTING AGENCY (Mailing Address)

USAF HOSP/SGPB
Moody AFB, GA
31699-5300

ANNA WILLIS
Technician

ANALYSIS
REQUESTED

Via

LABORATORY PER:

LABORATORY ANALYSIS REPORT AND RECORD (General)

24 SEP 1985

FROM:

USAF OEHL/SA
BROOKS AFB TX 78235-5000

SAMPLE IDENTITY

POTABLE WATER

DATE RECEIVED

17 Sept 85

SAMPLE PACK

LAB CONTROL RN

TEST FOR

TOTAL TRIHALOMETHANES (TOTAL THM)

METHODOLOGY: EPA METHOD 501.1

OEHL NO:

65208

BASE NO:

6P850165

CHLOROFORM

ND

BROMODICHLOROMETHANE

DIBROMOCHLOROMETHANE

BROMOFORM

ND

TOTAL THM

4100

RESULTS IN MICROGRAMS PER LITER

ND - None detected. Less than the detection limit. ND < 0.1
TRACE - Present but less than the quantitative limit. TR < 0.2

DATE ANALYZED: 23 Sept 85

Edward J. Brown

SEP 1985

REQUESTING AGENCY (Mailing Address)

USAF HOSP/SCMB

WMDY AFB, GO 3169-5300

9.10

1. LABORATORY PERFORMING ANALYSIS OEHL		3. LAB SAMPLE NUMBER 65202-205		4. REQUESTOR SAMPLE NUMBER GP850165	
SAMPLE COLLECTION INFORMATION				5. DATE RECEIVED BY LAB 175 Oct 85	
7. SITE DESCRIPTION C-217				6. DATE ANALYSIS COMPLETED 30 Sept 85	
8. SITE LOCATION NO 1		9. FLOW RATE AT SITE 00088 GAL/MIN		10. WEATHER 00041	
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		13. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION					

ANALYSES REQUESTED AND RESULTS

A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)

PRESERVATION GROUP F				PRESERVATION GROUP C			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620		10 MG/L
BARIUM	01007		1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01027	L10	10 µG/L	FLUORIDE	00951		See table in AFR 161-44
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076	Units	1 Unit
LEAD	01051	L20	50 µG/L	TAP CO.0 30			
MERCURY	71900	L1	2 µg/L	T.O.C L1			
SELENIUM	01147		10 µG/L	GPC			
SILVER	01077		50 µG/L	Kjeldahl-Nitrogen 4.2			

B. OTHER ANALYSES

PRESERVATION GROUP F			PRESERVATION GROUP G			PRESERVATION GROUP J		
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L
COPPER	01042		Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945	8.0
IRON	01045		Acidity, Total, As CaCO ₃	00435	0	Surfactants MBAS As LAS	38260	
MANGANESE	01055		Alkalinity, Phenolphth As CaCO ₃	00415	2			
ZINC	01092		Alkalinity, Total, As CaCO ₃	00410	121			
CALCIUM As Ca	00916	22.6	Chloride	00940				
MAGNESIUM As Mg	00927	13.6	Hardness As CaCO ₃	00900	112			
POTASSIUM	00937		Residue, Filtrable (TDS)	00515				
SODIUM	00929		Residue, Non-Filtrable (SS)	00530				
Chrom VI		L50	Residue	00500				
Nickel		L50	Specific Conductance	00095	µmhos			

1. ORGANIZATION REQUESTING ANALYSIS		CHEMIST DB	
USAF Hosp./SGPB 31699-5300 Moody AFB, GA.		REVIEWED BY E.H. H.H.	
		APPROVED BY D. David	

ENVIRONMENTAL SAMPLING DATA (TRACE ORGANICS)

(Use this space for mechanical imprint)

OEHL USE ONLY

SAMPLING SITE
IDENTIFIER
(AFR 19.7)

0133 PG 005

BASE WHERE SAMPLE COLLECTED

MOODY AFB GA. 31699-5300

SAMPLING SITE DESCRIPTION

WELL NO. 7

DATE COLLECTION BEGAN

(YYMMDD)

3/5/91

TIME COLLECTION BEGAN

(24 hour clock)

1300

COLLECTION METHOD

☒ GRAB

☐ COMPOSITE

____ HOURS

MAIL
REPORTS
TO
(circle if
changed)

ORIGINAL

0133

USAF HOSP / 56PG MOODY, AFB GA 31699-5300

COPY 1

COPY 2

SAMPLE COLLECTED BY (Name, Grade, AFSC)

WILLIS, GREGORY K AK 90750

SIGNATURE

Gregory K. Willis

AUTOVON

4460-3505

REASON FOR
SUBMISSION

☒ A

A-ACCIDENT/INCIDENT
R-ROUTINE/PERIODIC

C-COMPLAINT
N-NPDES

☒ FOLLOWUP/CLEANUP
O-OTHER (specify)

DEP SAMPLE

BASE SAMPLE NUMBER

6P 85 0165

OEHL NO

ANALYSES REQUESTED (check appropriate blocks)

VOLATILE HALOCARBONS (VOH) (10860)

PRES GROUP T1

Trichlorofluoromethane

34488

MISCELLANEOUS

☒ Volatile Halocarbon Screen

1001460PH

Vinyl Chloride

39175

VOLATILES

Bromodichloromethane

32101

Xylene

81710

Bromoform

32104

Methylethyl ketone

81595

Bromomethane

34413

TRISHALOMETHANES (THM) (10860)

Methylisobutyl ketone

81596

Carbon Tetrachloride

32102

PRES GROUP T1

☒ Total organic halides

10021060H

Chlorobenzene

34301

☒ Trihalomethane Potential

1001465MT

Chloroethane

34311

Total Trihalomethanes

82080

2-Chloroethylvinyl ether

34576

Chloroform

32106

VOLATILE AROMATICS (VOA) (10850)

Chloromethane

34418

PRES GROUP T1

Dibromochloromethane

32105

☒ Volatile Aromatic Screen

1001461PA

1, 2-dichlorobenzene

34536

Benzene

34030

MISCELLANEOUS

1, 3-dichlorobenzene

34566

Chlorobenzene

34301

EXTRACTABLES

1, 4-dichlorobenzene

34571

1, 2-dichlorobenzene

34536

☒ PRES GROUP T4

Dichlorodifluoromethane

34668

1, 3-dichlorobenzene

34566

PCB's

39516

1, 1-dichloroethane

34496

1, 4-dichlorobenzene

34571

Phthalate Esters Screen

1000069PH

1, 2-dichloroethane

34531

Ethylbenzene

34371

bis (2-ethylhexyl) phthalate

39100

1, 1-dichloroethene

34501

Toluene

34010

Butyl Benzyl phthalate

34292

trans-1, 2-dichloroethene

34546

Di-n-butyl phthalate

39110

1, 2-dichloropropane

34541

Diethyl phthalate

34336

cis-1, 3-dichloropropene

34704

Dimethyl phthalate

34341

trans-1, 3-dichloropropene

34699

Di-n-octyl phthalate

34596

Methylene Chloride

34423

1, 1, 2, 2-tetrachloroethane

34516

Tetrachloroethylene

34475

1, 1, 1-trichloroethane

34506

1, 1, 2-trichloroethane

34511

Trichloroethylene

39180

REMARKS

Feb 15-8
125

ENVIRONMENTAL SAMPLING DATA				FOR USE ONLY				
(Use this space for mechanical imprint)				SAMPLING SITE IDENTIFIER (AFR 19-7) 0133 96 005				
				BASE WHERE SAMPLE COLLECTED MOODY AFB GA 31699-5300				
				SAMPLING SITE DESCRIPTION WELL NO. 7				
DATE COLLECTION BEGAN (YYMMDD) 815109116		TIME COLLECTION BEGAN (24 hour clock) 1300		COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS				
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSP/568B Moody AFB GA 31699-5300				
	COPY 1							
	COPY 2							
SAMPLE COLLECTED BY (Name, Grade, AFSC) Wells, Gregory L AIC 90750				SIGNATURE Gregory L Wells		AUTOVON 460 3505		
REASON FOR SUBMISSION ER		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES		F-FOLLOWUP/CLEANUP O-OTHER (specify) <u>IRP SAMPLE</u>		
BASE SAMPLE NUMBER 6P 35 0165								
ANALYSES REQUESTED (Check appropriate blocks)								
GROUP A		☒	Hardness	00900	Silica	00955	2, 4, 5-T 39740	
Ammonia			00610	Iron	01045	Specific Conductance	00095 2, 4, 5-TP-Silvex 39760	
☒	Chemical Oxygen Demand		00340	☒	Lead	01051	☒	Sulfate 00945
☒	Kjeldahl Nitrogen		00625		Magnesium	00927	Surfactants-MBAS 38260	
	Nitrate		00620		Manganese	01055	Turbidity 00076	
	Nitrite		00615	☒	Mercury	71900		
	Oil & Grease		00360	☒	Nickel	01067		
☒	Organic Carbon		00680		Potassium	00937		
	Orthophosphate		00671		Selenium	01147		
	Phosphorus, Total		00665		Silver	01077		
GROUP D					Sodium	00929		
	Cyanide, Total		00720		Thallium	01059		
	Cyanide, Free		00722		Zinc	01092		
GROUP E				GROUP G				
	Phenols		32730	☒	Acidity, Total	70508		
				☒	Alkalinity, Total	00410		
GROUP F					Alkalinity, Bicarbonate	00425		
	Antimony		01097		Bromide	71870		
☒	Arsenic		01002		Carbon Dioxide	00405		
	Barium		01007		Chloride	00940		
	Beryllium		01012		Color	00080		
	Boron		01022		Fluoride	00951		
☒	Cadmium		01027		Residue, Total	00500		
	Calcium		00916		Residue, Filterable (TDS)	70300		
☒	Chromium, Total		01034		Residue, Nonfilterable	00530		
☒	Chromium VI		01032		Residue, Settlesable	50085		
	Copper		01042		Residue, Volatile	00505		
					Dieldrin	39380		
					Dursban	77969		
					Endrin	39390		
					Heptachlor	39410		
					Heptachlor Epoxide	39420		
					Lindane	39782		
					Methoxychlor	39480		
					Fenitrol (Prometon)	XY4200000		
					Toxaphene	39400		
					2, 4-D	39730		
ON SITE ANALYSES								
				PARAMETER		VALUE		
				Flow		50050	mgd	
				Chlorine, Total		50060	mg/l	
				Dissolved Oxygen		00300	mg/l	
				pH		00400	units	
				Temperature		00010	°C	
				Odor		00086		
				Iodide		71865		
				Sulfite		08740		
REMARKS								

PCB LABORATORY ANALYSIS RECORD

DATE

21 Oct 85

TO:

FROM:

USAF OEHL/BA
Brooks AFB TX 78235

1. SAMPLE IDENTITY

WATER

2. DATE RECEIVED

17 Sept 85

3. SAMPLE FROM

4. LAB CONTROL NUMBER

See below

5. TEST FOR

TOTAL ORGANIC HALOGENS (TOX)

6. METHODOLOGY

GAS CHROMATOGRAPHY (GC)

OEHL NUMBER

BASE NUMBER

Micrograms/liter

OEHL NUMBER

BASE NUMBER

Micrograms/liter

65209

4P850165

22

Grob sample from Well #7

COMMENTS

LEROY P. GEORGE
Chief, Trace Organics SectionND - None detected. Less than the detection limit.
Trace - Present but less than the quantitative limit.Sample analyzed
by contract lab

REQUESTING AGENCY (Mailing Address)

USAF HOSP/SGPB

MOODY AFB GA

31699-5300

File 15-C
RWS



DEPARTMENT OF THE AIR FORCE

USAF HOSPITAL MOODY (TAC)
MOODY AIR FORCE BASE GA 31699

REPLY TO
ATTN OF: SGPB (2Lt Boucher)

13 February 1985

SUBJECT: Analyzation of Base Drinking Water Systems For Trihalomethanes

TO: SG ~~844~~
SGA 7474
IN TURN

1. In February, base drinking water systems were analyzed for their trihalomethane content. Results indicate that on-base drinking water is not exceeding the .1 mg/L trihalomethane concentration standard set by the State of Georgia. Grassy Pond is exceeding the State standard with a detected concentration of .166 mg/L. A sinkhole located by Grassy Pond, is the organic contaminant's suspected route of entry into the principal aquifer.

2. The actions being taken are:

- a. accomplishing further research to determine a practical solution.
- b. coordinating Hospital, Grassy Pond, and PA offices in the production of an article to inform Grassy Pond visitors of this problem.
- c. notifying the Georgia Department of Natural Resources of the detected levels.

3. All future articles and actions will be forwarded for your approval.

Michael N. Boucher
MICHAEL N. BOUCHER, 2Lt, USAF, BSC
Chief, Bioenvironmental Engineering Services

Readiness is our Profession

file 15-c

ENVIRONMENTAL SAMPLING DATA			
(Use this space for mechanical imprint)			
DATE COLLECTION BEGAN (YYMMDD) 1315121051		TIME COLLECTION BEGAN (24 hour clock) 0900	
MAIL REPORTS TO (circle if changed) ORIGINAL ☒ COPY 1 ☐ COPY 2 ☐		SAMPLING SITE IDENTIFIER (AFR 19-7) 0133 70 010	
BASE WHERE SAMPLE COLLECTED MOD, AFB GA			
SAMPLING SITE DESCRIPTION Pldg 900 115 SPAL			
COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS		SIGNATURE <i>[Signature]</i>	
SAMPLE COLLECTED BY (Name, Grade, AFSC) J. G. W. Wills AIC 90730		AUTOVON 462 3505	
REASON FOR SUBMISSION ☒ A-ACCIDENT/INCIDENT ☐ R-ROUTINE/PERIODIC		C-COMPLAINT ☐ N-NPDES F-FOLLOWUP/CLEANUP ☐ O-OTHER (specify)	
BASE SAMPLE NUMBER 6N 35 0030			
ANALYSES REQUESTED (check appropriate blocks)			
GROUP A	GROUP B	GROUP C	GROUP D
Ammonia 00610	Hardness 00900	Residue, Settling 50086	GROUP T
Chemical Oxygen Demand 00340	Iron 01045	Residue, Volatile 00505	Bromoform 32104
Kjeldahl Nitrogen 00625	Lead 01051	Silica 00955	Bromodichloromethane 32101
Nitrate 00620	Magnesium 00927	Specific Conductance 00095	Carbon Tetrachloride 32102
Nitrite 00615	Manganese 01055	Sulfate 00945	Chloroform 32106
Oil & Grease 00560	Mercury 71900	Sulfite 00740	Chloromethane 34418
Organic Carbon 00680	Nickel 01067	Surfactants -MBAS 38260	Dibromochloromethane 32105
Orthophosphate 00671	Potassium 00937	Turbidity 00076	Methylene Chloride 34423
Phosphorus, Total 00665	Selenium 01147		Tetrachloroethylene 34475
	Silver 01077		1,1,1-Trichloroethane 34506
	Sodium 00929	GROUP H	Trichloroethylene 39180
GROUP D	Thallium 01059	BHC Isomers 39340	Trihalomethanes 82080
Cyanide, Total 00720	Zinc 01092	Chlordane 39350	PCBs 39516
Cyanide, Free 00722		DDT Isomers 39370	
		Dieldrin 39380	
GROUP E	GROUP G	Endrin 39390	
Phenols 32730	Acidity, Total 70508	Heptachlor 39410	
	Alkalinity, Total 00410	Heptachlor Epoxide 39420	
GROUP F	Alkalinity, Bicarbonate 00425	Lindane 39782	
Antimony 01097	Bromide 71870	Methoxychlor 39480	
Arsenic 01002	Carbon Dioxide 00405	Toxaphene 39400	
Barium 01007	Chloride 00940	2,4-D 39730	
Beryllium 01012	Color 00080	2,4,5-TP-Silver 39760	ON SITE ANALYSES
Boron 01022	Fluoride 00951	2,4,5-T 39740	Parameter Value
Cadmium 01027	Iodide 71865		Flow 50050 mgd
Calcium 00916	Odor 00086		Chlorine, Total 50060 mg/l
Chromium, Total 01034	Residue, Total 00500		Dissolved Oxygen 00300 mg/l
Chromium VI 01032	Residue, Filterable (TDS) 70300	GROUP J	pH 00400 units
Copper 01042	Residue, Nonfilterable 00530	Sulfides 00745	Temperature 00010 °C
COMMENTS SAMPLE B			

LIN

ENVIRONMENTAL SAMPLING DATA

(Use this space for mechanical imprint)

**SAMPLING SITE
IDENTIFIER
(AFR 19-7)**

0133 PD 010

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
BASE WHERE SAMPLE COLLECTED																																																																																																			

Mod., AFB 6A

SAMPLING SITE DESCRIPTION

GLASSY BND #2019

DATE COLLECTION BEGAN

1857 912 0151

TIME COLLECTION BEGAN

(24 hour clock) 0000

COLLECTION METHOD

☒ GRAB ☐ COMPOSITE _____ HOURS

**MAIL
REPORTS
TO**
(circle if
changed)

ORIGINAL

0133

COPY 1

IIII

COPY 2

--	--	--

SAMPLE COLLECTED BY (Name, Grade, AFSC)

614200 W/bs LIC 90730

SIGNATURE

Ann. Will

AUTOVON

460-3525

REASON FOR
SUBMISSION

A-ACCIDENT/INCIDENT
R-ROUTINE/PERIODIC

C-COMPLAINT
N-NPDES

F-FOLLOWUP/CLEANUP
O-OTHER (specify)

BASE SAMPLE NUMBER

520810031

ANALYSES REQUESTED (check appropriate blocks)

GROUP A		Hardness		00900	Residue, Settleable	50086	GROUP T	
Ammonia	00610	Iron	01045		Residue, Volatile	00505	Bromoform	32104
Chemical Oxygen Demand	00340	Lead	01051		Silica	00955	Bromodichloromethane	32101
Kjeldahl Nitrogen	00625	Magnesium	00927		Specific Conductance	00095	Carbon Tetrachloride	32102
Nitrate	00620	Manganese	01055		Sulfate	00945	Chloroform	32106
Nitrite	00615	Mercury	71900		Sulfite	00740	Chloromethane	34418
Oil & Grease	00560	Nickel	01067		Surfactants -MBAS	38260	Dibromochloromethane	32105
Organic Carbon	00680	Potassium	00937		Turbidity	00076	Methylene Chloride	34423
Orthophosphate	00671	Selenium	01147				Tetrachloroethylene	34475
Phosphorus, Total	00665	Silver	01077				1,1,1-Trichloroethane	34506
		Sodium	00929			GROUP H	Trichloroethylene	39180
	GROUP D	Thallium	01059		BHC Isomers	39340	Trihalomethanes	82080
Cyanide, Total	00720	Zinc	01092		Chlordane	39350	PCBs	39516
Cyanide, Free	00722				DDT Isomers	39370		
					Dieldrin	39380		
	GROUP E		GROUP G		Endrin	39390		
Phenols	32730	Acidity, Total	70508		Heptachlor	39410		
		Alkalinity, Total	00410		Heptachlor Epoxide	39420		
	GROUP F	Alkalinity, Bicarbonate	00425		Lindane	39782		
Antimony	01097	Bromide	71870		Methoxychlor	39480		
Arsenic	01002	Carbon Dioxide	00405		Toxaphene	39400		
Barium	01007	Chloride	00940		2,4-D	39730	ON SITE ANALYSES	
Beryllium	01012	Color	00080		2,4,5-TP-Silvex	39760	Parameter	Value
Boron	01022	Fluoride	00951		2,4,5-T	39740	Flow	50050 mgd
Cadmium	01027	Iodide	71865				Chlorine, Total	50060 mg/l
Calcium	00916	Odor	00086				Dissolved Oxygen	00300 mg/l
Chromium, Total	01034	Residue, Total	00500				pH	00400 units
Chromium VI	01032	Residue, Filterable (TDS)	70300			GROUP J	Temperature	00010 °C
Copper	01042	Residue, Nonfilterable	00530		Sulfides	00745		
COMMENTS								
Sample A								

LABORATORY ANALYSIS REPORT AND RECORD (General)

DATE

13 FEB 1985

TO:

FROM:

USAF OEHL/SA
BROOKS AFB TX 78235-5000

SAMPLE IDENTITY

POTABLE WATER

DATE RECEIVED

6 FEB 1985

SAMPLE PACK

LAB CONTROL NO

8968, 8970

TEST FOR

TOTAL TRIHALOMETHANES (TOTAL THM)

METHODOLOGY: EPA METHOD 501.1 (Hosp) (Grassy Field)

OEHL NO:

8968

8970

BASE NO:

GN850030

GN850031

CHLOROFORM

84.0

158.9

BROMODICHLOROMETHANE

2.7

6.7

DIBROMOCHLOROMETHANE

0.3

ND

BROMOFORM

ND

ND

TOTAL THM

<100

165.6

RESULTS IN MICROGRAMS PER LITER

ND - None detected. Less than the detection limit. ND <0.1

TRACE - Present but less than the quantitative limit. TR <0.2

DATE ANALYZED: 7 FEB 1985

Edward J. Brown

13 FEB 1985

REQUESTING AGENCY (Mailing Address)

USAF HOSP/SGPB

MOODY AFB, GA

31699-5300

A Z Willis
Technician

ENVIRONMENTAL SAMPLING DATA

Leave space for mechanical imprint

SAMPLING SITE IDENTIFIER (AFR 10-7)

0133 PD 001

BASE WHERE SAMPLE COLLECTED

MOODY AFB

SAMPLING SITE DESCRIPTION

HOSPITAL Bldg 900

DATE COLLECTION BEGAN

18 JAN 1991

TIME COLLECTION BEGAN

(24 hour clock)

COLLECTION METHOD

☒ GRAB ☐ COMPOSITE _____ HOURS

MAIL REPORTS TO (circle if changed)

ORIGINAL 0133
COPY 1
COPY 2

USAF HOSPITAL MOODY / 56PB
MOODY AFB, GA 31644-5300

SAMPLE COLLECTED BY (Name, Grade, AFSC)

SIGNATURE

AUTOVON

460-3505

REASON FOR SUBMISSION

☒ A

A-ACCIDENT/INCIDENT
R-ROUTINE/PERIODIC

C-COMPLAINT
N-NPDES

F-FOLLOWUP/CLEANUP
O-OTHER (specify)

BASE SAMPLE NUMBER

GA 89 0140

ANALYSES REQUESTED (check appropriate blocks)

GROUP A		GROUP B		GROUP C		GROUP D		GROUP E		GROUP F		GROUP G		GROUP H		GROUP I		GROUP J	
Ammonia	00610	X	Hardness	00900		Residue, Settlesable	50086												
Chemical Oxygen Demand	00340	X	Iron	01045		Residue, Volatile	00505												
Kjeldahl Nitrogen	00625	X	Lead	01051	X	Silica	00955												
Nitrate	00620	X	Magnesium	00927		Specific Conductance	00095												
Nitrite	00615	X	Manganese	01055	X	Sulfate	00945												
Oil & Grease	00360	X	Mercury	71900		Sulfite	00740												
Organic Carbon	00680	X	Nickel	01067		Surfactants -MBAS	38260												
Orthophosphate	00671	X	Potassium	00937		Turbidity	00076												
Phosphorus, Total	00665	X	Selenium	01147															
		X	Silver	01077															
		X	Sodium	00929															
		X	Thallium	01059															
Cyanide, Total	00720	X	Zinc	01092		BHC Isomers	39340												
Cyanide, Free	00722					Chlordane	39350												
						DDT Isomers	39370												
						Dieldrin	39380												
						Endrin	39390												
Phenols	32730		Acidity, Total	70508		Heptachlor	39410												
		X	Alkalinity, Total	00410		Heptachlor Epoxide	39420												
		X	Alkalinity, Bicarbonate	00425	X	Lindane	39782												
Antimony	01097		Bromide	71870	X	Methoxychlor	39480												
X Arsenic	01002		Carbon Dioxide	00405	X	Toxaphene	39400												
X Barium	01007	X	Chloride	00940	X	2,4-D	39730												
X Beryllium	01012		Color	00080	X	2,4,5-TP-Silvex	39760												
Boron	01022		Fluoride	00951	X	2,4,5-T	39740												
X Cadmium	01027		Iodide	71865															
X Calcium	00916		Odor	00086															
X Chromium, Total	01034		Residue, Total	00500															
Chromium VI	01032	X	Residue, Filterable (TDS)	70300															
X Copper	01042		Residue, Nonfilterable	00530															

COMMENTS

ON SITE ANALYSES

Parameter	Value
Flow	50050 mgd
Chlorine, Total	50060 mg/l
Dissolved Oxygen	00300 mg/l
pH	00400 7.2 units
Temperature	00010 64 deg

ENVIRONMENTAL SAMPLING DATA

(Leave space for mechanical imprint)

SAMPLING SITE IDENTIFIER (AFR 19-7)

0133

PD

002

BASE WHERE SAMPLE COLLECTED

MOODY AFB

SAMPLING SITE DESCRIPTION

MUNITION AREA RID 1100

DATE COLLECTION BEGAN (YYMMDD)

18511198

TIME COLLECTION BEGAN (24 hour clock)

COLLECTION METHOD

☒ GRAB

☐ COMPOSITE

HOURS

MAIL REPORTS TO (circle if changed)

ORIGINAL

0133

COPY 1

COPY 2

USAF HOSPITAL MOODY / SGPB

MOODY AFB, GA 31645-5300

SAMPLE COLLECTED BY (Name, Grade, AFSC)

SIGNATURE

AUTOVON

460-3505

REASON FOR SUBMISSION

☒ A

A-ACCIDENT/INCIDENT
R-ROUTINE/PERIODIC

C-COMPLAINT
N-NPDES

F-FOLLOWUP/CLEANUP
O-OTHER (specify)

BASE SAMPLE NUMBER

GP 85 0141

ANALYSES REQUESTED (check appropriate blocks)

GROUP A		GROUP B		GROUP C		GROUP D		GROUP E		GROUP F		GROUP G		GROUP H		GROUP I		GROUP J	
	00610	☒	Hardness	00900			Residue, Settlesable	50086											
	00340	☒	Iron	01045			Residue, Volatile	00505											
	00625	☒	Lead	01051	☒		Silica	00955											
	00620	☒	Magnesium	00927			Specific Conductance	00095											
	00615	☒	Manganese	01055	☒		Sulfate	00945											
	00560	☒	Mercury	71900			Sulfite	00740											
	00680		Nickel	01067	☒		Surfactants -MBAS	38260											
	00671		Potassium	00937			Turbidity	00076											
	00665	☒	Selenium	01147															
		☒	Silver	01077															
		☒	Sodium	00929															
	00720	☒	Thallium	01059			BHC Isomers	39340											
	00722		Zinc	01092			Chlordane	39350											
							DDT Isomers	39370											
							Dieldrin	39380											
	32730		Acidity, Total	70508	☒		Endrin	39390											
		☒	Alkalinity, Total	00410			Heptachlor	39410											
			Alkalinity, Bicarbonate	00425			Heptachlor Epoxide	39420											
	01097		Bromide	71870	☒		Lindane	39782											
	01002		Carbon Dioxide	00405	☒		Methoxychlor	39480											
	01007	☒	Chloride	00940	☒		Toxaphene	39400											
	01012		Color	00080			2,4-D	39730											
	01022		Fluoride	00951	☒		2,4,5-TP-Silvex	39760											
	01027		Iodide	71865			2,4,5-T	39740											
	00916		Odor	00086															
	01034	☒	Residue, Total	00500															
	01032	☒	Residue, Filterable (TDS)	70300															
	01042		Residue, Nonfilterable	00530															
		☒																	

ENVIRONMENTAL SAMPLING DATA				SAMPLING SITE IDENTIFIER (AFR 13-7)			
(See for mechanical imprint)				0133 PD 003			
BASE WHERE SAMPLE COLLECTED				MOODY AFB			
SAMPLING SITE DESCRIPTION				MILLION LAKE RID 1705			
DATE COLLECTION BEGAN (TYMDD)		TIME COLLECTION BEGAN (24 hour clock)		COLLECTION METHOD			
18 JAN 1981				☒ GRAB ☐ COMPOSITE HOURS			
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSPITAL MOODY / 56PB			
	COPY 1			MOODY AFB, GA 31699-5300			
	COPY 2						
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE		AUTOVON	
						466 3505	
REASON FOR SUBMISSION		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES		F-FOLLOWUP/CLEANUP O-OTHER (specify)	
BASE SAMPLE NUMBER		GP 85 0142					
ANALYSES REQUESTED (check appropriate blocks)							
GROUP A		Hardness 00900		Residue, Settleable 50086		GROUP T	
Ammonia 00610		☒ Iron 01045		Residue, Volatile 00505		Bromoform 32104	
Chemical Oxygen Demand 00340		☒ Lead 01051		☒ Silica 00955		Bromodichloromethane 32101	
Kjeldahl Nitrogen 00625		☒ Magnesium 00927		Specific Conductance 00095		Carbon Tetrachloride 32102	
☒ Nitrate 00620		☒ Manganese 01055		☒ Sulfate 00945		Chloroform 32105	
Nitrite 00615		☒ Mercury 71900		Sulfite 00740		Chloromethane 34418	
Oil & Grease 00560		Nickel 01067		☒ Surfactants -MBAS 38260		Dibromochloromethane 32105	
Organic Carbon 00680		Potassium 00937		Turbidity 00076		Methylene Chloride 34423	
Orthophosphate 00671		☒ Selenium 01147				Tetrachloroethylene 34475	
Phosphorus, Total 00665		☒ Silver 01077				1,1,1-Trichloroethane 34506	
		☒ Sodium 00929		GROUP H		Trichloroethylene 39180	
GROUP D		Thallium 01059		BHC Isomers 39340		Trihalomethanes 82080	
Cyanide, Total 00720		☒ Zinc 01092		Chlordane 39350		PCBs 39516	
Cyanide, Free 00722				DDT Isomers 39370			
				Dieldrin 39380			
GROUP E		GROUP G		Endrin 39390			
Phenols 32730		Acidity, Total 70508		Heptachlor 39410			
		☒ Alkalinity, Total 00410		Heptachlor Epoxide 39420			
GROUP F		☒ Alkalinity, Bicarbonate 00425		Lindane 39782			
Antimony 01097		Bromide 71870		☒ Methoxychlor 39480			
☒ Arsenic 01002		Carbon Dioxide 00405		☒ Toxaphene 39400			
☒ Barium 01007		☒ Chloride 00940		2,4-D 39730		ON SITE ANALYSES	
Beryllium 01012		Color 00080		2,4,5-TP-Silver 39760		Parameter	Value
Boron 01022		Fluoride 00951		☒ 2,4,5-T 39740		Flow 50050	mgd
☒ Cadmium 01027		Iodide 71865				Chlorine, Total 50060	mg/l
☒ Calcium 00916		Odor 00086				Dissolved Oxygen 00300	mg/l
☒ Chromium, Total 01034		☒ Residue, Total 00500				pH 00400	7.5 units
Chromium VI 01032		☒ Residue, Filterable (TDS) 70300		GROUP J		Temperature 00010	62 °F
☒ Copper 01042		Residue, Nonfilterable 00530		Sulfides 00745			
COMMENTS							

ENVIRONMENTAL SAMPLING DATA				(Use for mechanical imprint)													
				SAMPLING SITE IDENTIFIER (AFR 15-9) 0133 PD 004													
				BASE WHERE SAMPLE COLLECTED MOODY AFB													
				SAMPLING SITE DESCRIPTION GRASSY POND R/W 2419													
				COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS													
DATE COLLECTION BEGAN (YYMMDD) 18 OCT 1981		TIME COLLECTION BEGAN (24 hour clock)															
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133 USAF HOSPITAL MOODY / CGPB MOODY AFB, GA 31649-5300															
	COPY 1																
	COPY 2																
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE													
				AUTOVON 460-3505													
REASON FOR SUBMISSION R		A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES													
				F-FOLLOWUP/CLEANUP O-OTHER (specify)													
BASE SAMPLE NUMBER GP 850143																	
ANALYSES REQUESTED (check appropriate blocks)																	
GROUP A		☒ Hardness 00900 ☒ Iron 01045 ☒ Lead 01051 ☒ Magnesium 00927 ☒ Manganese 01055 ☒ Mercury 71900 ☐ Nickel 01067 ☐ Potassium 00937 ☒ Selenium 01147 ☒ Silver 01077 ☒ Sodium 00929		Residue, Settlesable 50086 Residue, Volatile 00505 ☒ Silica 00955 Specific Conductance 00095 ☒ Sulfate 00945 ☐ Sulfite 00740 ☒ Surfactants -MBAS 38260 Turbidity 00076													
Ammonia 00610 Chemical Oxygen Demand 00340 Kjeldahl Nitrogen 00625 ☒ Nitrate 00620 ☐ Nitrite 00615 Oil & Grease 00560 Organic Carbon 00680 Orthophosphate 00671 Phosphorus, Total 00665				GROUP T													
				Bromoform 32104 Bromodichloromethane 32101 Carbon Tetrachloride 32102 Chloroform 32106 Chloromethane 34418 Dibromochloromethane 32105 Methylene Chloride 34423 Tetrachloroethylene 34475 1,1,1-Trichloroethane 34506 Trichloroethylene 39180													
GROUP D		Thallium 01059 Zinc 01092		GROUP H													
Cyanide, Total 00720 Cyanide, Free 00722				BHC Isomers 39340 Chlordane 39350 DDT Isomers 39370 Dieldrin 39380 ☒ Endrin 39390 Heptachlor 39410 Heptachlor Epoxide 39420 Lindane 39782 ☒ Methoxychlor 39480 ☒ Toxaphene 39400													
GROUP E		GROUP G															
Phenols 32730		Acidity, Total 70508 ☒ Alkalinity, Total 00410 ☒ Alkalinity, Bicarbonate 00425															
GROUP F		Antimony 01097 ☒ Arsenic 01002 ☒ Barium 01007 ☐ Beryllium 01012 ☐ Boron 01022 ☒ Cadmium 01027 ☒ Calcium 00916 ☒ Chromium, Total 01034 ☐ Chromium VI 01032 ☒ Copper 01042		Bromide 71870 Carbon Dioxide 00405 ☒ Chloride 00940 Color 00080 Fluoride 00951 Iodide 71865 Odor 00086 ☒ Residue, Total 00500 ☒ Residue, Filterable (TDS) 70300 ☐ Residue, Nonfilterable 00550													
				ON SITE ANALYSES													
		2,4-D 39730 2,4,5-TP-Silvex 39760 ☒ 2,4,5-T 39740		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Flow</td> <td>50050 mgd</td> </tr> <tr> <td>Chlorine, Total</td> <td>50060 mg/l</td> </tr> <tr> <td>Dissolved Oxygen</td> <td>00300 mg/l</td> </tr> <tr> <td>pH</td> <td>00400 7.6 units</td> </tr> <tr> <td>Temperature</td> <td>00010 65 °F</td> </tr> </tbody> </table>		Parameter	Value	Flow	50050 mgd	Chlorine, Total	50060 mg/l	Dissolved Oxygen	00300 mg/l	pH	00400 7.6 units	Temperature	00010 65 °F
Parameter	Value																
Flow	50050 mgd																
Chlorine, Total	50060 mg/l																
Dissolved Oxygen	00300 mg/l																
pH	00400 7.6 units																
Temperature	00010 65 °F																
		GROUP J															
		Sulfides 00745															
COMMENTS																	

ENVIRONMENTAL SAMPLING DATA				SAMPLING SITE IDENTIFIER (AFR 19-7)	
(See for mechanical imprint)				0133 PD 005	
BASE WHERE SAMPLE COLLECTED				MUDDY AFB	
SAMPLING SITE DESCRIPTION				TRANSMITTER SITE 1500	
DATE COLLECTION BEGAN (MM/DD/YY) 18 JAN 1992		TIME COLLECTION BEGAN (24 hour clock)		COLLECTION METHOD ☒ GRAB ☐ COMPOSITE HOURS	
MAIL REPORTS TO (circle if changed)		ORIGINAL 0133		USAF HOSPITAL MUDDY / 56 PR	
COPY 1		COPY 2		MUDDY AFB, GA 31649-5300	
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE	
REASON FOR SUBMISSION ☒ R				AUTOVON 460-3505	
BASE SAMPLE NUMBER		GF 85 0144		REASON FOR SUBMISSION A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC C-COMPLAINT N-NPDES F-FOLLOWUP/CLEANUP O-OTHER (specify)	
ANALYSES REQUESTED (check appropriate blocks)					
GROUP A		GROUP B		GROUP T	
Ammonia 00610	☒ Hardness 00900	Residue, Settles 00506	☒ Bromoform 32104		
Chemical Oxygen Demand 00340	☒ Iron 01045	Residue, Volatile 00503	☒ Bromodichloromethane 32101		
Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00955	☒ Carbon Tetrachloride 32102		
☒ Nitrate 00620	☒ Magnesium 00927	Specific Conductance 00995	☒ Chloroform 32106		
Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00945	☒ Chloromethane 34418		
Oil & Grease 00560	☒ Mercury 71900	Sulfite 00740	☒ Dibromochloromethane 32105		
Organic Carbon 00680	☒ Nickel 01067	☒ Surfactants -MBAS 38260	☒ Methylene Chloride 34423		
Orthophosphate 00671	☒ Potassium 00937	Turbidity 00076	☒ Tetrachloroethylene 34475		
Phosphorus, Total 00665	☒ Selenium 01147		☒ 1,1,1-Trichloroethane 34506		
	☒ Silver 01077		☒ Trichloroethylene 39180		
	☒ Sodium 00929	GROUP H		☒ Trihalomethanes 82080	
GROUP D		BHC Isomers 39340	☒ PCBs 39516		
Cyanide, Total 00720	☒ Thallium 01059	Chlordane 39350			
Cyanide, Free 00722	☒ Zinc 01092	☒ DDT Isomers 39370			
GROUP E		Dieldrin 39380			
Phenols 32730	GROUP G				
	Acidity, Total 70508	Endrin 39390			
	☒ Alkalinity, Total 00410	Heptachlor 39410			
	☒ Alkalinity, Bicarbonate 00425	Heptachlor Epoxide 39420			
Antimony 01097	☒ Bromide 71870	Lindane 39782			
☒ Arsenic 01002	Carbon Dioxide 00405	☒ Methoxychlor 39480			
☒ Barium 01007	☒ Chloride 00940	☒ Toxaphene 39400			
Beryllium 01012	Color 00080	☒ 2,4-D 39730			
Boron 01022	Fluoride 00951	☒ 2,4,5-T 39740			
☒ Cadmium 01027	Iodide 71865	ON SITE ANALYSES			
☒ Calcium 00916	Odor 00086	2,4,5-TP-Silver 39760	Parameter	Value	
☒ Chromium, Total 01034	☒ Residue, Total 00500	☒ 2,4,5-T 39740	Flow	50050	mgd
Chromium VI 01032	☒ Residue, Filterable (TDS) 70300		Chlorine, Total	50060	mg/l
☒ Copper 01042	Residue, Nonfilterable 00530	GROUP J		Dissolved Oxygen	00300 mg/l
COMMENTS		Sulfides 00745	pH	00400	7.6 units
			Temperature	00010	62 °C

ENVIRONMENTAL SAMPLING DATA				SAMPLING SITE IDENTIFIER (AFR 19-7)	
Date for mechanical imprint()				0133 PD 006	
DATE COLLECTION BEGAN (YYMMDD)				BASE WHERE SAMPLE COLLECTED	
18 JUL 1981				MOODY AFB	
TIME COLLECTION BEGAN (24 hour clock)				SAMPLING SITE DESCRIPTION	
				RECEIVER SITE 1501	
COLLECTION METHOD					
☒ GRAB ☐ COMPOSITE _____ HOURS					
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133		USAF HOSPITAL MOODY / 16PB	
	COPY 1			MOODY AFB, GA 31694-5300	
	COPY 2				
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE	AUTOVON
					460 3505
REASON FOR SUBMISSION	A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC		C-COMPLAINT N-NPDES	F-FOLLOWUP/CLEANUP O-OTHER (specify)	
	R				
BASE SAMPLE NUMBER GP 85 9145					
ANALYSES REQUESTED (check appropriate blocks)					
GROUP A		GROUP B		GROUP T	
Ammonia 00610	☒ Hardness 00900	Residue, Settlesable 00505	Bromoform 32104		
Chemical Oxygen Demand 00340	☒ Iron 01045	Residue, Volatile 00505	Bromodichloromethane 32101		
Kjeldahl Nitrogen 00625	☒ Lead 01051	Silica 00955	Carbon Tetrachloride 32102		
☒ Nitrate 00620	☒ Magnesium 00927	Specific Conductance 00095	Chloroform 32106		
Nitrite 00615	☒ Manganese 01055	Sulfate 00945	Chloromethane 34418		
Oil & Grease 00560	☒ Mercury 71900	Sulfite 00740	Dibromochloromethane 32105		
Organic Carbon 00680	Nickel 01067	Surfactants -MBAS 38260	Methylene Chloride 34423		
Orthophosphate 00671	Potassium 00937	Turbidity 00076	Tetrachloroethylene 34475		
Phosphorus, Total 00665	☒ Selenium 01147		1,1,1-Trichloroethane 34506		
	☒ Silver 01077		Trichloroethylene 39180		
	☒ Sodium 00929	GROUP H		Trihalomethanes 82080	
GROUP D	Thallium 01059	BHC Isomers 39340	PCBs 39516		
Cyanide, Total 00720	Zinc 01092	Chlordane 39350			
Cyanide, Free 00722		DDT Isomers 39370			
		Dieldrin 39380			
GROUP E	GROUP G	Endrin 39390			
Phenols 32730	Acidity, Total 70508	Heptachlor 39410			
	☒ Alkalinity, Total 00410	Heptachlor Epoxide 39420			
	☒ Alkalinity, Bicarbonate 00425	Lindane 39782			
Antimony 01097	Bromide 71870	Methoxychlor 39480			
☒ Arsenic 01002	Carbon Dioxide 00405	Toxaphene 39400			
☒ Barium 01007	☒ Chloride 00940	2,4-D 39730	ON SITE ANALYSES		
☒ Beryllium 01012	Color 00080	2,4,5-TP-Silvex 39760	Parameter	Value	
Boron 01022	Fluoride 00951	2,4,5-T 39740	Flow	50050	mgd
☒ Cadmium 01027	Iodide 71865		Chlorine, Total	50060	mg/l
☒ Calcium 00916	Odor 00086		Dissolved Oxygen	00300	mg/l
☒ Chromium, Total 01034	☒ Residue, Total 00500		pH	00400	7.4 units
Chromium VI 01032	☒ Residue, Filterable (TDS) 70300	GROUP J	Temperature	00010	65 °F
☒ Copper 01042	☒ Residue, Nonfilterable 00530	Sulfides 00743			
COMMENTS					

LABORATORY ANALYSIS REPORT AND RECORD

File 15-2

UNIT GENL/SR

REPORT NO. 70235

SAMPLE IDENTIFY

Water Sample.

DATE RECEIVED

17 Jan. 85

SAMPLE FROM

LABORATORY NO.

See below

TEST FOR

primary drinking water standards for pesticide + D-C Serum

ANALYSIS

as Chromatography

RESULTS	SAMPLE ANALYZED FOR	Quantitative Detection Limit (1 liter sample)	Micrograms/Liter (parts per billion)	LAB CONTROL NUMBER - BASE CONTROL NUMBER											
				Concentration in 1 Liter Sample - Micrograms/Liter*											
				3577	GP850145	3578	GP850145								
	ldrin	.02		X											
	DDT	.02		X											
	DE	.02		X											
	dieldrin	.02		X											
	endrin	.02		X											
	heptachlor	.02		X											
	heptachlorepoide	.02		X											
	lindane	.02		X											
	p,p'-DDT	.02		X											
	miazinon	.02													
	malathion	.10													
	parathion	.02													
	methoxychlor	.20		X											
	p,p'-DDT	.02		X											
	chlordane	.20		X											
	alpha-BHC	.01		X											
	beta-BHC	.02		X											
	delta-BHC	.02		X											
	toxaphene	1.0		X											
	2,4-D	0.06			X										
	5,10,15	0.06			X										
	2,4,5-T	0.06			X										

REMARKS

"T" means less than the quantitative detection limit (Trace present).

"X" means less than the qualitative detection limit (none detected).

REQUESTING Agency (mailing Address)

USAF Hospital Moody/SGPB

Moody AFB, GA. 31699-5300

Dennie L. Mark, M.S.

YOSHIMI A. NISHIOKA, GS-12
Pesticides Analysis Function
Environmental Chemistry Branch

water sample.

DATE RECEIVED
17 Jan. 85
LAB CONTROL NUMBER
See below

SYNOPSIS

primary drinking water standards for pesticides + D-CC screen

METHODOLOGY

Gas Chromatography

RESULTS

SAMPLE
ANALYZED
FOR

Quantitative Detection
Limit (1 liter sample)

Micrograms/Liter
(parts per billion)

LAE CONTROL NUMBER - BASE CONTROL NUMBER

Concentration in 1 Liter Sample - Micrograms/Liter*

		3567	GP850140	3568	GP850140	3569	GP850141	3570	GP850141	3571	GP850142	3572	GP850142	3573	GP850143	3574	GP850143	3575	GP850144	3576	GP850144
Aldrin	.03	X			X				X				X					X			
DDT	.03	X			X				X				X					X			
Endrin	.03	X			X				X				X					X			
Endrin	.03	X			X				X				X					X			
Heptachlor	.03	X			X				X				X					X			
Heptachlorepoxyde	.02	X			X				X				X					X			
Endane	.01	X			X				X				X					X			
p,p'-DDT	.03	X			X				X				X					X			
Malathion	.02																				
Parathion	.02																				
Chlorpyrifos	.20	X			X				X				X					X			
p,p'-DDT	.03	X			X				X				X					X			
Endane	.20	X			X				X				X					X			
Alpha-BHC	.01	X			X				X				X					X			
Beta-BHC	.02	X			X				X				X					X			
Delta-BHC	.02	X			X				X				X					X			
Polychlorinated biphenyls	1.0	X			X				X				X					X			
2,4-D	0.06		X					X			X				X				X		
Silvex	0.06		X					X			X				X				X		
2,4,5-T	0.06		X					X			X				X				X		

REMARKS

T* means less than the quantitative detection limit (Trace present).
X* means less than the qualitative detection limit (none detected).

REQUESTING Agency (including Address)

USAF Hospital Moody/SGAB
Moody AFB, GA 31699-5300

YOSHIMI A. NISHIOKA, Chemist

YOSHIMI A. NISHIOKA, GS-12
Pesticides Analysis Function
Environmental Chemistry Branch

4. REQUESTOR SAMPLE NUMBER

0000#

50030

5. DATE RECEIVED BY
LAB

6. DATE ANALYSIS COMPLETED

7. SITE DESCRIPTION

HOSPITAL # 900

17 Jan, 85

29 Jan. 85

ON-SITE ANALYTICAL RESULTS

9. SITE LOCATION NO

9. FLOWRATE AT SITE
00058
GAL/MIN

10. WEATHER 00041

16. WATER TEMP 000 1
2

17. PM

00400 UNITS	18. DISS O ₂ 00300 MG/L
----------------	--

11. COLLECTION DATE/PERIOD

12. NAME OF COLLECTOR

19. RESULTS OF OTHER ON-SITE ANALYSES

12. SAMPLING TECHNIQUE

~~July 17 - 12:00 PM~~

18. REASON FOR SAMPLE SUBMISSION

TRIENNIAL POTABLE WATER sample

ANALYSES REQUESTED AND RESULTS

A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)

PRESERVATION GROUP F

029

49

PRESERVATION GROUP C

022

PARAMETER	TOTAL	µ G/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10.	50 µ G/L	NITRATE AS N (Cadmium Reduction Method)	00620	L.1	10 MG/L
BARIUM	01007	L200.	1000 µ G/L	PRESERVATION GROUP G			
CADMIUM	01027	L10.	10. µ G/L	FLUORIDE	00951	.	See table to AFR 161-64
CHROMIUM	01034	L50.	50 µ G/L	TURBIDITY	00076	Units	1 Unit
LEAD	01051	L20.	50 µ G/L				
MERCURY	71900	L1.	2 µ G/L				
SELENIUM	01147	L10.	10 µ G/L				
SILVER	01077	L10.	50 µ G/L				

B. OTHER ANALYSES

PRESERVATION GROUP F

51

PRESERVATION GROUP G

029

PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L
COPPER	01042	109	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945	17.
IRON	01045	1100	Acidity, Total, As CaCO ₃	00435	.	Surfactants MBAS As LAS	38260	.
MANGANESE	01055	150	Alkalinity, Phenolphthalein As CaCO ₃	00415	0	alk. Biss.		100
ZINC	01092	150	Alkalinity, Total, As CaCO ₃	00410	100	silica		31.0 *
CALCIUM As Ca	00916	26.1 ^{mg}	Chloride	00940	12.			
MAGNESIUM as Mg	00927	10 ^{mg}	Hardness As CaCO ₃	00900	109			
POTASSIUM	00937	^{mg}	Residue, Filtrable (TDS)	00515	175	PRESERVATION GROUP J		
SODIUM	00929	3.3 ^{mg}	Residue, Non-Filtrable (SS)	00530	.	PARAMETER		
Beryllium		110	Residue	00500	.			
			Specific Conductance	00095	1400			

1. ORGANIZATION REQUESTING ANALYSIS

- * Sample sent in glass container instead of plastic, may cause erroneous results.

Mossy AFB

CHEMIST

REVIEWED BY DD
DD EH-411

APPROVED BY

Debid

LABORATORY PERFORMING ANALYSIS

3. LAB SAMPLE NUMBER

4. REQUESTOR SAMPLE NUMBER

O EHL

3552-54

00008

GP850141

00028

SAMPLE COLLECTION INFORMATION

7. SITE DESCRIPTION

MUNITIONS AREA #1100

8. SITE LOCATION NO

9. FLOWRATE AT SITE
00088
GAL/MIN

10. WEATHER

00041

5. DATE RECEIVED BY
LAB
17 Jan 856. DATE ANALYSIS
COMPLETED
29 Jan 85

ON-SITE ANALYTICAL RESULTS

16. WATER TEMP
000 10
°C

17. PH

00400
UNITS18. DISS O₂
00300
MG/L

11. COLLECTION DATE/PERIOD

12. NAME OF COLLECTOR

19. RESULTS OF OTHER ON-SITE ANALYSES

13. SAMPLING TECHNIQUE

Jan 17 12 00 AM '85

14. PHONE NUMBER

15. REASON FOR SAMPLE SUBMISSION

TRIENNIAL POTABLE WATER SAMPLE

ANALYSES REQUESTED AND RESULTS

A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)

53 PRESERVATION GROUP F (023)				52 PRESERVATION GROUP C (022)			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10.	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	2.1	10 MG/L
BARIUM	01007	L200.	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01027	L10.	10. µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01034	L50.	50 µG/L	FLUORIDE	00951	.	See table in AFR 161-44
LEAD	01051	L20.	50 µG/L	TURBIDITY	00076	Units	1 Unit
MERCURY	71000	L1.	2 µG/L	Clp nitrite L22			
SELENIUM	01047	L10.	10 µG/L				
SILVER	01077	L10.	50 µG/L				

B. OTHER ANALYSES

PRESERVATION GROUP F			34 PRESERVATION GROUP G				
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	01042	L20.	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945
IRON	01045	128.	Acidity, Total, As CaCO ₃	00435	.	Surfactants MBAS As LAS	18260
MANGANESE	01055	L50.	Alkalinity, Phenolphth As CaCO ₃	00415	12.		
ZINC	01092	115.	Alkalinity, Total, As CaCO ₃	00410	90.		
CALCIUM As Ca	00916	213. mg/l	Chloride	00940	8.		
MAGNESIUM As M	00927	6.5 mg/l	Hardness As CaCO ₃	00900	81.		
POTASSIUM	00937	.	Residue, Filtrable (TDS)	00515	195.	PRESERVATION GROUP J	
SODIUM	00929	.	Residue, Non-Filtrable (SS)	00530	.	PARAMETER	
			Residue	00500	.		
			Specific Conductance	00095	µmhos		

1. ORGANIZATION REQUESTING ANALYSIS

* sample sent in glass container instead of plastic. may cause erroneous results.

Moody AFB

CHEMIST

KAY JMS F.H.M. RO

REVIEWED BY

APPROVED BY

D. J. Bird

ANALYST REQUESTED
Use as
✓ PERFORM

9.10

1. LABORATORY PERFORMING ANALYSIS OEHL		3. LAB SAMPLE NUMBER 3555-57 00008	4. REQUESTOR SAMPLE NUMBER GP850142 00028
7. SITE DESCRIPTION MISSION LAKE #1705		5. DATE RECEIVED BY LAB 17 Jan. 85	6. DATE ANALYSIS COMPLETED 29 Jan. 85
8. SITE LOCATION NO	9. FLOWRATE AT SITE 00058 GAL/MIN	10. WEATHER 00041	16. WATER TEMP 000 10 °C
11. COLLECTION DATE/PERIOD	12. NAME OF COLLECTOR	17. PH 00400 UNITS	
13. SAMPLING TECHNIQUE	14. PHONE NUMBER June 17 12 00 PM '85	18. DISS O ₂ 00300 MG/L	
15. REASON FOR SAMPLE SUBMISSION TRIENNIAL POTABLE WATER SAMPLE		19. RESULTS OF OTHER ON-SITE ANALYSES	

ANALYSES REQUESTED AND RESULTS

A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
56 PRESERVATION GROUP F (025)				55 PRESERVATION GROUP C (022)			
PARAMETER	TOTAL	µ G/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10.	50 µ G/L	NITRATE AS N (Cadmium Reduction Method)	00620	2.1	10 MG/L
BARIUM	01007	L200.	1000 µ G/L	PRESERVATION GROUP G			
CADMIUM	01027	L10.	10. µ G/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01034	L50.	50 µ G/L	FLUORIDE	00951	.	See table in AFR 161-46
LEAD	01051	L20.	50 µ G/L	TURBIDITY	00076	Units	1 Unit
MERCURY	01900	L1.	2 µ G/L				
SELENIUM	01147	L10.	10 µ G/L				
SILVER	01077	L10.	50 µ G/L				

B. OTHER ANALYSES							
PRESERVATION GROUP F			57 PRESERVATION GROUP G (029)				
PARAMETER	TOTAL	µ G/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	01042	L20.	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945
IRON	01045	L100.	Acidity, Total, As CaCO ₃	00435	.	Surfactants MBAS As LAS	38260
MANGANESE	01055	L50.	Alkalinity, Phenolphth As CaCO ₃	00415	4.	alpha. Bic.	112
ZINC	01092	202.	Alkalinity, Total, As CaCO ₃	00410	120.	silica	4LC*
CALCIUM As Ca	00916	22.5 ^{mg}	Chloride	00940	4.		
MAGNESIUM as Mg	00927	13.7 ^{mg}	Hardness As CaCO ₃	00900	113.		
POTASSIUM	00937	mg	Residue, Filtrable (TDS)	00515	193.	PRESERVATION GROUP J	
SODIUM	00929	43 ^{mg}	Residue, Non-Filtrable (SS)	00530		PARAMETER	
			Residue	00500	205		
			Specific Conductance	00095	µmhos		

1. ORGANIZATION REQUESTING ANALYSIS * sample sent in glass container- instead of plastic. May cause erroneous results. Moody AFB	CHEMIST John E. H. 2/2 REVIEWED BY APPROVED BY D. J. R. 2/2
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9.10		LABORATORY PERFORMING ANALYSIS		3. LAB SAMPLE NUMBER		4. REQUESTOR SAMPLE NUMBER	
O EHL		3558-60		00008		GP850143 00026	
SAMPLE COLLECTION INFORMATION				5. DATE RECEIVED BY LAB		6. DATE ANALYSIS COMPLETED	
7. SITE DESCRIPTION GRASSY POND 2019				17 Jan 85		29 Jan 85	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041		ON-SITE ANALYTICAL RESULTS	
						16. WATER TEMP 000 10 °C	
						17. PH 00400 UNITS	
						18. DISS O ₂ 00300 MG/L	
11. COLLECTION DATE/PERIOD JAN 17				12. NAME OF COLLECTOR 12 00 14		19. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE				14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION TRIENNIAL POTABLE WATER SAMPLE							
ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
59 PRESERVATION GROUP F (025)				58 PRESERVATION GROUP C (022)			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10.	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L1.	10 MG/L
BARIUM	01007	L200.	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01027	L10.	10 µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01034	L50.	50 µG/L	FLUORIDE	00951	.	See table in AFR 161-44
LEAD	01051	L20.	50 µG/L	TURBIDITY	00076	Units	1 Unit
MERCURY	71900	L1.	2 µG/L				
SELENIUM	01147	L10.	10 µG/L				
SILVER	01077	L10.	50 µG/L				
B. OTHER ANALYSES							
PRESERVATION GROUP F 60				PRESERVATION GROUP G (021)			
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	01042	36.	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945
IRON	01045	773.	Acidity, Total, As CaCO ₃	00435	.	Surfactants MBAS As LAS	38260
MANGANESE	01055	L50.	Alkalinity, Phenolphthalein As CaCO ₃	00415	6.	alka Bic	78
ZINC	01092	.	Alkalinity, Total, As CaCO ₃	00410	90.	silica	13.5*
CALCIUM As Ca	00916	27.8	Chloride	00940	24.		
MAGNESIUM as Mg	00927	3.2	Hardness As CaCO ₃	00900	83.		
POTASSIUM	00937	.	Residue, Filtrable (TDS)	00515	171.	PRESERVATION GROUP J	
SODIUM	00929	5.5	Residue, Non-Filtrable (SS)	00530	.	PARAMETER	
			Residue	00500	.		
			Specific Conductance	00095	µmhos		
1. ORGANIZATION REQUESTING ANALYSIS				CHEMIST			
* Sample sent in glass container instead of plastic. May cause erroneous results. Maddy AFB				REVIEWED BY			
				APPROVED BY			
				D. J. D. D.			

9.10

LABORATORY PERFORMING ANALYSIS *June 17* 3. LAB SAMPLE NUMBER *3561-63* 4. REQUESTOR SAMPLE NUMBER *GP850144*

O EHL 00008 00029

SAMPLE COLLECTION INFORMATION			5. DATE RECEIVED BY LAB <i>17 Jan 85</i>	6. DATE ANALYSIS COMPLETED <i>29 Jan 85</i>
7. SITE DESCRIPTION TRANSMITTER SITE #1500			ON-SITE ANALYTICAL RESULTS	
8. SITE LOCATION NO	9. FLOWRATE AT SITE 00088 GAL/MIN	10. WEATHER 00041	16. WATER TEMP 000 10 °C	17. PH 00400 UNITS
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR	18. DISS O ₂ 00300 MG/L	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER	19. RESULTS OF OTHER ON-SITE ANALYSES	
15. REASON FOR SAMPLE SUBMISSION TRIENNIAL POTABLE WATER SURVEY				

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 142)							
<i>62</i> PRESERVATION GROUP F <i>(025)</i>				<i>61</i> PRESERVATION GROUP C <i>(022)</i>			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	<i>(01002)</i>	<i>L10.</i>	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	<i>(00620)</i>	<i>L.1</i>	10 MG/L
BARIUM	<i>(01007)</i>	<i>L200.</i>	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	<i>(01027)</i>	<i>L10.</i>	10 µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	<i>(01034)</i>	<i>L50.</i>	50 µG/L	FLUORIDE	<i>(00951)</i>		See table in AFR 163-44
LEAD	<i>(01051)</i>	<i>L20.</i>	50 µG/L	TURBIDITY	<i>(00076)</i>	Units	1 Unit
MERCURY	<i>(7000)</i>	<i>L1.</i>	2 µG/L				
SELENIUM	<i>(00147)</i>	<i>L10.</i>	10 µG/L				
SILVER	<i>(01077)</i>	<i>L10.</i>	50 µG/L				
B. OTHER ANALYSES							
<i>63</i> PRESERVATION GROUP F				<i>(024)</i> PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	<i>(01042)</i>	<i>190.</i>	Acidity, Mineral As CaCO ₃	<i>(00436)</i>		Sulfate As SO ₄	<i>(00945)</i>
IRON	<i>(01045)</i>	<i>163.</i>	Acidity, Total, As CaCO ₃	<i>(00435)</i>		Surfactants MBAS As LAS	<i>(38260)</i>
MANGANESE	<i>(01055)</i>	<i>L50.</i>	Alkalinity, Phenolphthalein As CaCO ₃	<i>(00415)</i>	<i>0.</i>		<i>118</i>
ZINC	<i>(01092)</i>	<i>714.</i>	Alkalinity, Total, As CaCO ₃	<i>(00410)</i>	<i>118.</i>		<i>27.0*</i>
CALCIUM As Ca	<i>(00916)</i>	<i>29.5</i>	Chloride	<i>(00940)</i>	<i>12.</i>		
MAGNESIUM as Mg	<i>(00927)</i>	<i>11.7</i>	Hardness As CaCO ₃	<i>(00900)</i>	<i>121.</i>		
POTASSIUM	<i>(00937)</i>		Residue, Filtrable (TDS)	<i>(00515)</i>	<i>177.</i>	PRESERVATION GROUP J	
SODIUM	<i>(00929)</i>	<i>4.8</i>	Residue, Non-Filtrable (SS)	<i>(00530)</i>		PARAMETER	
			Residue	<i>(00500)</i>	<i>192.</i>		
			Specific Conductance	<i>(00095)</i>	µmhos		

1. ORGANIZATION REQUESTING ANALYSIS * Sample sent in glass container instead of plastic. May cause erroneous results. <i>Moody AFB</i>	CHEMIST <i>WJ</i> <i>WMS</i> REVIEWED BY <i>F.H.4H</i> APPROVED BY <i>[Signature]</i>
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9.10

LABORATORY PERFORMING ANALYSIS O EHL				3. LAB SAMPLE NUMBER 8564-66		4. REQUESTOR SAMPLE NUMBER GP850145	
SAMPLE COLLECTION INFORMATION						5. DATE RECEIVED BY LAB 17 Jan 85	
7. SITE DESCRIPTION RECIPIER SITE #1501 Jan 17 12 00 PM '85						6. DATE ANALYSIS COMPLETED 29 Jan 85	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041		ON-SITE ANALYTICAL RESULTS	
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		13. WATER TEMP 000 10 °C		14. PH 00400 UNITS	
15. SAMPLING TECHNIQUE		16. PHONE NUMBER		15. RESULTS OF OTHER ON-SITE ANALYSES			
18. REASON FOR SAMPLE SUBMISSION TRIENNIAL POTABLE WATER SURVEY							
ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
65 PRESERVATION GROUP F (025)				64 PRESERVATION GROUP C (02)			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10.	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L.1	10 MG/L
BARIUM	01007	L200.	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01027	L10.	10 µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01034	L50.	50 µG/L	FLUORIDE	00951	.	See table in AFR 161-46
LEAD	01051	L20.	50 µG/L	TURBIDITY	00076	Units	1 Unit
MERCURY	71900	L1.	2 µG/L				
SELENIUM	01147	L10.	10 µG/L				
SILVER	01077	LA	50 µG/L				
B. OTHER ANALYSES							
PRESERVATION GROUP F				66 PRESERVATION GROUP G (02)			
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	01042	200.	Acidity, Mineral As CaCO ₃	00436	.	Sulfate As SO ₄	00945
IRON	01045	L100.	Acidity, Total, As CaCO ₃	00435	.	Surfactants MBAS As LAS	38260
MANGANESE	01055	L50.	Alkalinity, Phenolphthalein As CaCO ₃	00415	0	alk. Bicarb.	118
ZINC		.	Alkalinity, Total, As CaCO ₃	00410	118	silica	30.0 mg/l
CALCIUM As Ca	00916	262 mg/l	Chloride	00940	4.		
MAGNESIUM as Mg	00927	172 mg/l	Hardness As CaCO ₃	00900	116		
POTASSIUM	00937	mg/l	Residue, Filtrable (TDS)	00515	118	PRESERVATION GROUP J	
SODIUM	00929	4.3 mg/l	Residue, Non-Filtrable (SS)	00530	.	PARAMETER	
Beryllium		LA	Residue	00500	189.		
			Specific Conductance	00095	µmhos		
1. ORGANIZATION REQUESTING ANALYSIS * Sample sent in glass container instead of plastic. May cause erroneous results. Moody AFB						CHEMIST Wm Jms E.H. MII	
						REVIEWED BY	
						APPROVED BY Dud & Bird	

18 FEB 1965

CDR 0014/571

Lab No: 70235-5000

SAMPLE / *water sample*

DATE RECEIVED
28 Jan 65

SAMPLE FROM

LAB CONTROL No
See below

SYSTEM

primary drinking water standards for pesticide + o-ell screen

METHODOLOGY
as Chromatography

RESULTS SAMPLE ANALYZED FOR	Quantitative Detection Limit (1 liter sample)	Micrograms/Liter (parts per billion)	LAB CONTROL NUMBER - BASE CONTROL NUMBER											
			Concentration in 1 Liter Sample - Micrograms/Liter*											
			5914	GPR50013	5915	GPR50014	5916	GPR50015	5917	GPR50016	5918	GPR50017	5919	GPR50018
Aldrin	.02		X	X	X	X	X	X	X	X	X	X	X	X
DDT	.02		X	X	X	X	X	X	X	X	X	X	X	X
DDE	.02		X	X	X	X	X	X	X	X	X	X	X	X
Dieldrin	.02		X	X	X	X	X	X	X	X	X	X	X	X
Endrin	.02		X	X	X	X	X	X	X	X	X	X	X	X
Heptachlor	.02		X	X	X	X	X	X	X	X	X	X	X	X
Heptachlorepoxyde	.02		X	X	X	X	X	X	X	X	X	X	X	X
Indane	.01		X	X	X	X	X	X	X	X	X	X	X	X
p,p'-DDT	.02		X	X	X	X	X	X	X	X	X	X	X	X
Diazinon	.02													
Malathion	.10													
Parathion	.02													
Permethrin	.20		X	X	X	X	X	X	X	X	X	X	X	X
p,p'-DDT	.02		X	X	X	X	X	X	X	X	X	X	X	X
Chlordane	.20		X	X	X	X	X	X	X	X	X	X	X	X
alpha-BHC	.01		X	X	X	X	X	X	X	X	X	X	X	X
beta-BHC	.02		X	X	X	X	X	X	X	X	X	X	X	X
delta-BHC	.02		X	X	X	X	X	X	X	X	X	X	X	X
Toxaphene	1.0		X	X	X	X	X	X	X	X	X	X	X	X
2,4-D	0.06													
Silica	0.06													

REMARKS

*T means less than the quantitative detection limit (Trace present).

*X means less than the qualitative detection limit (none detected).

REQUESTING Agency (including address)

USAF Hospital Moody/SGPB
Moody AFB, GA. 31699-5300

Devin L. Mark, M.S., chemist

Yoshimi A. Nishioka

YOSHIMI A. NISHIOKA, Chemist
YOSHIMI A. NISHIOKA, GS-12
Pesticides Analysis Function
Environmental Chemistry Branch

LABORATORY ANALYSIS REPORT AND RECOMMENDATIONS

13 FEB 1985

DATE: 08/11/84

LABORATORY NO: 78235-5000

IDENTITY

Water Sample.

DATE RECEIVED

28 Jan 85

LOCATION

LAB CONTROL NO.

See below

STATION

primary drinking water standards for pesticides & O-ell screen

METHODOLOGY

Gas Chromatography

RESULTS

SAMPLE ANALYZED FOR

Quantitative Detection Limit (1 liter sample)
Micrograms/Liter (parts per billion)

LAB CONTROL NUMBER - BASE CONTROL NUMBER
Concentration in 1 Liter Sample - Micrograms/Liter*

		5923	GPES0013	5924	GPES0014	5925	GPES0015	5926	GPES0016	5927	GPES0017	5928	GPES0018	5929	GPES0019	5930	GPES0020	5931	GPES0021
ldrin	.03																		
DDT	.03																		
DDE	.03																		
dieldrin	.02																		
lindrin	.02																		
heptachlor	.02																		
heptachlorepoide	.02																		
lindane	.01																		
p,p'-DDT	.02																		
diazinon	.02																		
malathion	.10																		
parathion	.02																		
fenitrothion	.20																		
p,p'-DDT	.02																		
chlorfane	.20																		
alpha-BHC	.01																		
gamma-BHC	.02																		
delta-BHC	.02																		
toxaphene	1.0																		
2,4-D	0.06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silica	0.06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2,4,5-T	0.06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Dennis L. Mark, chemist

REMARKS

"T" means less than the quantitative detection limit (Trace present).
"X" means less than the qualitative detection limit (none detected).

REQUESTING Agency (including Address)

USAF Hospital Moody/SGPB
Moody AFB, GA 31699-5300

YOSHIMI A. NISHIOKA, Chemist
YOSHIMI A. NISHIOKA, GS-12
Pesticides Analysis Function
Environmental Chemistry Branch

ENVIRONMENTAL SAMPLING DATA

(Use this space for mechanical imprint)

SAMPLING SITE IDENTIFIER (AFR 19-7)

C 1 3 3 A G 0 0 2

BASE WHERE SAMPLE COLLECTED

MOODY AFB

SAMPLING SITE DESCRIPTION

WELL No 2 BLDG 946

DATE COLLECTION BEGAN

1 8 1 5 1 1

TIME COLLECTION BEGAN

(24 hour clock)

COLLECTION METHOD

☒ GRAB ☐ COMPOSITE _____ HOURS

MAIL REPORTS TO (circle if changed)

ORIGINAL

0 1 3 3

COPY 1

COPY 2

USAF HOSPITAL MOODY / SGPB
MOODY AFB, GA 31649-5300

SAMPLE COLLECTED BY (Name, Grade, AFSC)

SIGNATURE

AUTOVON

460 3505

REASON FOR SUBMISSION

☒ R

A-ACCIDENT/INCIDENT
R-ROUTINE/PERIODIC

C-COMPLAINT
N-NPDES

F-FOLLOWUP/CLEANUP
O-OTHER (specify)

BASE SAMPLE NUMBER

0 1 8 5 0 0 1 4

ANALYSES REQUESTED (check appropriate blocks)

GROUP A		GROUP B		GROUP C		GROUP D		GROUP E		GROUP F		GROUP G		GROUP H		GROUP I		GROUP J		ON SITE ANALYSES	
Ammonia	00610	Hardness	00900	Residue, Settlesable	50086																
Chemical Oxygen Demand	00340	Iron	01045	Residue, Volatile	00505																
Kjeldahl Nitrogen	00625	Lead	01051	Silica	00955																
Nitrate	00620	Magnesium	00927	Specific Conductance	00095																
Nitrite	00615	Manganese	01055	Sulfate	00945																
Oil & Grease	00360	Mercury	71900	Sulfite	00740																
Organic Carbon	00680	Nickel	01067	Surfactants -MBAS	38260																
Orthophosphate	00671	Potassium	00937	Turbidity	00076																
Phosphorus, Total	00665	Selenium	01147																		
		Silver	01077																		
		Sodium	00929																		
		Thallium	01059																		
Cyanide, Total	00720	Zinc	01092	BHC Isomers	39340																
Cyanide, Free	00722			Chlordane	39350																
				DDT Isomers	39370																
				Dieldrin	39380																
				Endrin	39390																
Phenols	32730	Acidity, Total	70508	Heptachlor	39410																
		Alkalinity, Total	00410	Heptachlor Epoxide	39420																
		Alkalinity, Bicarbonate	00425	Lindane	39782																
Antimony	01097	Bromide	71870	Methoxychlor	39480																
Arsenic	01002	Carbon Dioxide	00405	Toxaphene	39400																
Barium	01007	Chloride	00940	2,4-D	39730																
Beryllium	01012	Color	00080	2,4,5-TP-Silver	39760																
Boron	01022	Fluoride	00951	2,4,5-T	39740																
Cadmium	01027	Iodide	71865																		
Calcium	00916	Odor	00086																		
Chromium, Total	01034	Residue, Total	00500																		
Chromium VI	01032	Residue, Filterable (TDS)	70300																		
Copper	01042	Residue, Nonfilterable	00530																		
				Sulfides	00745																

9.10

1. LABORATORY PERFORMING ANALYSIS OEHL			3. LAB SAMPLE NUMBER 5894-58		4. REQUESTOR SAMPLE NUMBER GP850014	
7. SITE DESCRIPTION Jan 28 8 30 AM '85					5. DATE RECEIVED BY LAB 28 Jan 85	
6. SITE LOCATION NO					6. DATE ANALYSIS COMPLETED 12 Feb 85	
9. FLOWRATE AT SITE 00088 GAL/MIN			10. WEATHER 00041		18. WATER TEMP 000 10 °C	
11. COLLECTION DATE/PERIOD			12. NAME OF COLLECTOR		17. PH 00400 UNITS	
13. SAMPLING TECHNIQUE			14. PHONE NUMBER		19. RESULTS OF OTHER ON-SITE ANALYSES	
15. REASON FOR SAMPLE SUBMISSION						

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
PRESERVATION GROUP F 57				PRESERVATION GROUP G 56			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L.1	10 MG/L
BARIUM	01007	L200	1000 µG/L				
CADMIUM	01027	L10	10 µG/L	FLUORIDE	00951		See table in AFR 161-44
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076	Units	1 Unit
LEAD	01051	L20	50 µG/L	Alk B		112	
MERCURY	01060	L1	2 µG/L	silica		43	
SELENIUM	01067	L10	10 µG/L				
SILVER	01077	L10	50 µG/L				

B. OTHER ANALYSES							
PRESERVATION GROUP F				PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	01042	L20	Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945
IRON	01045	L100	Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	38269
MANGANESE	01055	L50	Alkalinity, Phenolph As CaCO ₃	00415			
ZINC	01092		Alkalinity, Total, As CaCO ₃	00410	112	GRP B 54	
CALCIUM As Ca	00916	26.9 mg/l	Chloride	00940		O + G	<0.3
MAGNESIUM as Mg	00927	9.6 mg/l	Hardness As CaCO ₃	00900	108		
POTASSIUM	00937		Residue, Filtrable (TDS)	00515	119	PRESERVATION GROUP J 31	
SODIUM	00925	3.3 mg/l	Residue, Non-Filtrable (SS)	00530		PARAMETER	
			Residue	00500	151	GROUP E 55	
			Specific Conductance	00095	µmhos	phenols	<10 µg/L

1. ORGANIZATION REQUESTING ANALYSIS * Samples to be analyzed for Silver Content should be sent in plastic containers, not glass. See shipping guide.		CHEMIST BB	
 Moady		REVIEWED BY E.H.M.H.	
		APPROVED BY 	

File 15-c
CW

ENVIRONMENTAL SAMPLING DATA			
(Use this space for mechanical imprint)		SAMPLING SITE IDENTIFIER (AFR 19-7)	
		0133 AG 443	
		BASE WHERE SAMPLE COLLECTED	
		MOODY AFB	
		SAMPLING SITE DESCRIPTION	
		WELL No 3 BLDG 4894	
DATE COLLECTION BEGAN (YYMMDD)		TIME COLLECTION BEGAN (24 hour clock)	
18 5 11			
		COLLECTION METHOD	
		☐ GRAB ☐ COMPOSITE _____ HOURS	
MAIL REPORTS TO (circle if changed)	ORIGINAL	0133	
	COPY 1		
	COPY 2		
		USAF HOSPITAL MOODY / JG PB	
		MOODY AFB, GA 31644-5300	
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	
REASON FOR SUBMISSION		AUTOVON	
☒ A		460-3505	
A-ACCIDENT/INCIDENT		C-COMPLAINT	
R-ROUTINE/PERIODIC		N-NPDES	
		F-FOLLOWUP/CLEANUP	
		O-OTHER (specify)	
BASE SAMPLE NUMBER			
GP 85 0015			
ANALYSES REQUESTED (check appropriate blocks)			
GROUP A		GROUP T	
Ammonia 00610	Hardness 00900	Residue, Settlesable 50086	Bromoform 32104
Chemical Oxygen Demand 00340	Iron 01045	Residue, Volatile 00505	Bromodichloromethane 32101
Kjeldahl Nitrogen 00625	Lead 01051	Silica 00955	Carbon Tetrachloride 32102
Nitrate 00620	Magnesium 00927	Specific Conductance 00095	Chloroform 32106
Nitrite 00615	Manganese 01055	Sulfate 00945	Chloromethane 34418
Oil & Grease 00560	Mercury 71900	Sulfite 00740	Dibromochloromethane 32105
Organic Carbon 00680	Nickel 01067	Surfactants -MBAS 38260	Methylene Chloride 34423
Orthophosphate 00671	Potassium 00937	Turbidity 00076	Tetrachloroethylene 34475
Phosphorus, Total 00665	Selenium 01147		1,1,1-Trichloroethane 34506
	Silver 01077		Trichloroethylene 39180
	Sodium 00929	GROUP H	Trihalomethanes 82080
GROUP D	Thallium 01059	BHC Isomers 39340	PCBs 39516
Cyanide, Total 00720	Zinc 01092	Chlordane 39350	
Cyanide, Free 00722		DDT Isomers 39370	
		Dieldrin 39380	
GROUP E	GROUP G	Endrin 39390	
Phenols 32730	Acidity, Total 70508	Heptachlor 39410	
	Alkalinity, Total 00410	Heptachlor Epoxide 39420	
GROUP F	Alkalinity, Bicarbonate 00425	Lindane 39782	
Antimony 01097	Bromide 71870	Methoxychlor 39480	
Arsenic 01002	Carbon Dioxide 00405	Toxaphene 39400	
Barium 01007	Chloride 00940	2,4-D 39730	ON SITE ANALYSES
Beryllium 01012	Color 00080	2,4,5-TP-Silvex 39760	Parameter Value
Boron 01022	Fluoride 00951	2,4,5-T 39740	Flow 50050 mgd
Cadmium 01027	Iodide 71865		Chlorine, Total 50060 mg/l
Calcium 00916	Odor 00086		Dissolved Oxygen 00300 mg/l
Chromium, Total 01034	Residue, Total 00500		pH 00400 7.0 units
Chromium VI 01032	Residue, Filterable (TDS) 70300	GROUP J	Temperature 00010 20.5 oc
Copper 01042	Residue, Nonfilterable 00530	Sulfides 00745	
COMMENTS			

9.10

2. LABORATORY PERFORMING ANALYSIS OEHL		3. LAB SAMPLE NUMBER 5859-63		4. REQUESTOR SAMPLE NUMBER GP850015	
5. SAMPLE COLLECTION INFORMATION				6. DATE RECEIVED BY LAB 28 Jan 85	
7. SITE DESCRIPTION				8. DATE ANALYSIS COMPLETED 12 Feb 85	
9. SITE LOCATION NO 507		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041	
11. COLLECTION DATE/PERIOD 20 Jan 85		12. NAME OF COLLECTOR		13. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION					
ANALYSES REQUESTED AND RESULTS					
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)					
PRESERVATION GROUP F 62			PRESERVATION GROUP 61		
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reducing Method)	00620
BARIUM	01007	L200	1000 µG/L		
CADMIUM	01027	L10	10 µG/L	FLUORIDE	00951
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076
LEAD	01051	L20	50 µG/L		
MERCURY	71900	L1	2 µG/L		
SELENIUM	01147	L10	10 µG/L		
SILVER	01077	L10	50 µG/L		
B. OTHER ANALYSES					
PRESERVATION GROUP F			PRESERVATION GROUP G		
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L
COPPER	01042	L20	Acidity, Mineral As CaCO ₃	00436	
IRON	01045	L100	Acidity, Total, As CaCO ₃	00435	
MANGANESE	01053	L50	Alkalinity, Phenolphth As CaCO ₃	00415	
ZINC	01092		Alkalinity, Total, As CaCO ₃	00419	112
CALCIUM As Ca	00916	313 mg/l	Chloride	00940	
MAGNESIUM as Mg	00927	11.0 mg/l	Hardness As CaCO ₃	00900	123
POTASSIUM	00937		Residue, Filtrable (TDS)	00515	168
SODIUM	00929	3.2 mg/l	Residue, Non-Filtrable (SS)	00530	
			Residue	00500	171
			Specific Conductance	00095	µmhos
1. ORGANIZATION REQUESTING ANALYSIS * Samples to be analyzed for silica content should be sent in plastic containers, not glass. See shipping guide.					
REVIEWED BY Dr. J. J. E. H. H. H.					
APPROVED BY D. J. J. J. J.					

file 15-c

ENVIRONMENTAL SAMPLING DATA				
(Use this space for mechanical imprint)		SAMPLING SITE IDENTIFIER (AFR 19-7)		
		0103 76 004		
		BASE WHERE SAMPLE COLLECTED		
		Moody AFB		
		SAMPLING SITE DESCRIPTION		
		W11 NO. 5 Bldg 1114		
DATE COLLECTION BEGAN (YYMMDD)	TIME COLLECTION BEGAN (24 hour clock)	COLLECTION METHOD		
151201		☒ GRAB ☐ COMPOSITE _____ HOURS		
MAIL REPORTS TO (circle if changed)	ORIGINAL	0103		
	COPY 1			
	COPY 2			
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	AUTOVON	
			460-3500	
REASON FOR SUBMISSION	☒ A-Accident/Incident ☐ C-Complaint ☐ F-Followup/Cleanup ☐ R-Routine/Periodic ☐ N-NPDES ☐ O-Other (specify)			
BASE SAMPLE NUMBER				
6A 85 0016				
ANALYSES REQUESTED (check appropriate blocks)				
GROUP A		GROUP T		
☒ Ammonia 00610	☒ Hardness 00900	☐ Residue, Settlingable 50086	☐ Bromoform 32104	
☐ Chemical Oxygen Demand 00340	☒ Iron 01045	☐ Residue, Volatile 00505	☐ Bromodichloromethane 32101	
☐ Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00955	☐ Carbon Tetrachloride 32102	
☒ Nitrate 00620	☒ Magnesium 00927	☐ Specific Conductance 00095	☐ Chloroform 32106	
☐ Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00945	☐ Chloromethane 34418	
☒ Oil & Grease 00560	☒ Mercury 71900	☐ Sulfite 00740	☐ Dibromochloromethane 32105	
☐ Organic Carbon 00680	☐ Nickel 01067	☒ Surfactants -MBAS 38260	☐ Methylene Chloride 34423	
☐ Orthophosphate 00671	☐ Potassium 00937	☐ Turbidity 00076	☐ Tetrachloroethylene 34475	
☐ Phosphorus, Total 00665	☒ Selenium 01147		☐ 1,1,1-Trichloroethane 34506	
	☒ Silver 01077		☐ Trichloroethylene 39180	
	☒ Sodium 00929	GROUP H		
GROUP D		☐ BHC Isomers 39340	☐ Trihalomethanes 82080	
☐ Cyanide, Total 00720	☒ Thallium 01059	☐ Chlordane 39350	☐ PCBs 39516	
☐ Cyanide, Free 00722	☒ Zinc 01092	☐ DDT Isomers 39370		
		☐ Dieldrin 39380		
GROUP E		☒ Endrin 39390		
☒ Phenols 32730	☐ Acidity, Total 70508	☐ Heptachlor 39410		
	☒ Alkalinity, Total 00410	☐ Heptachlor Epoxide 39420		
GROUP F		☐ Lindane 39782		
☐ Antimony 01097	☒ Alkalinity, Bicarbonate 00425	☐ Methoxychlor 39480		
☒ Arsenic 01002	☐ Bromide 71870	☒ Toxaphene 39400		
☒ Barium 01007	☐ Carbon Dioxide 00405	☒ 2,4-D 39730	ON SITE ANALYSES	
☐ Beryllium 01012	☐ Chloride 00940	☐ 2,4,5-TP-Silvex 39760	Parameter	Value
☐ Boron 01022	☐ Color 00080	☒ 2,4,5-T 39740	Flow	50050 mgd
☒ Cadmium 01027	☐ Fluoride 00951		Chlorine, Total	50060 mg/l
☒ Calcium 00916	☐ Iodide 71865		Dissolved Oxygen	00300 mg/l
☒ Chromium, Total 01034	☐ Odor 00086		pH	00400 7.0 units
☐ Chromium VI 01032	☒ Residue, Total 00500	GROUP J		Temperature
☐ Copper 01042	☒ Residue, Filterable (TDS) 70300	☐ Sulfides 00745		00010 2-5°C
	☐ Residue, Nonfilterable 00530			
COMMENTS				

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LABORATORY PERFORMING ANALYSIS		3. LAB SAMPLE NUMBER 5864-68		4. REQUESTOR SAMPLE NUMBER GP850016	
SAMPLE COLLECTION INFORMATION				5. DATE RECEIVED BY LAB 22 Jan. 85	
7. SITE DESCRIPTION 2250 0 34 111				6. DATE ANALYSIS COMPLETED 12 Feb. 85	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041	
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		13. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION					

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
PRESERVATION GROUP F 632				PRESERVATION GROUP C 663			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L.1	10 MG/L
BARIUM	01007	L200	1000 µG/L	PRESERVATION GROUP G 65			
CADMIUM	01027	L10	10 µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
CHROMIUM	01031	L50	50 µG/L	FLUORIDE	00951		See table in AFR 161-44
LEAD	01051	L20	50 µG/L	TURBIDITY	00076	Units	1 Unit
MERCURY	71900	L1	2 µG/L	alk B		97	
SELENIUM	01147	L10	10 µG/L	silica*		44	
SILVER	01077	L10	50 µG/L				

B. OTHER ANALYSES							
PRESERVATION GROUP F				PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L		PARAMETER	TOTAL	MG/L	
COPPER	01042	34		Acidity, Mineral As CaCO ₃	00436		
IRON	01045	382		Acidity, Total, As CaCO ₃	00435		
MANGANESE	01035	L50		Alkalinity, Phenolphthalein As CaCO ₃	00415		
ZINC	01092	50		Alkalinity, Total, As CaCO ₃	00410	97	
CALCIUM As Ca	00916	19.4 ^{meq/l}		Chloride	00940		
MAGNESIUM As Mg	00927	8.2 ^{meq/l}		Hardness As CaCO ₃	00900	82	
POTASSIUM	00937			Residue, Filtrable (TDS)	00515	100	
SODIUM	00929	4.5 ^{meq/l}		Residue, Non-Filtrable (SS)	00530		
				Residue	00500	132	
				Specific Conductance	00095	µmhos	

1. ORGANIZATION REQUESTING ANALYSIS * Samples to be analyzed for silica should be sent in plastic containers not glass. See shipping guide.		CHEMIST DB	
		REVIEWED BY EHVH	
		APPROVED BY Daniel B. B. O.	

Moody

File 15-c
you

ENVIRONMENTAL SAMPLING DATA			
(Use this space for mechanical imprint)		SAMPLING SITE IDENTIFIER (APR 19-7) <u>0133 PG 003</u>	
		BASE WHERE SAMPLE COLLECTED <u>MOODY AFB</u>	
		SAMPLING SITE DESCRIPTION <u>WELL #7 BLDG 1705</u>	
DATE COLLECTION BEGAN (YYMMDD) <u>18 01 11</u>		TIME COLLECTION BEGAN (24 hour clock)	COLLECTION METHOD ☐ GRAB ☐ COMPOSITE _____ HOURS
MAIL REPORTS TO (circle if changed)	ORIGINAL	<u>0133</u>	<u>USAF HOSPITAL MOODY / SGPB</u> <u>MOODY AFB, GA 31649-5300</u>
	COPY 1		
	COPY 2		
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	AUTOVON <u>460 3505</u>
REASON FOR SUBMISSION	☒ A-ACCIDENT/INCIDENT ☐ R-ROUTINE/PERIODIC	☐ C-COMPLAINT ☐ N-NPDES	☐ F-FOLLOWUP/CLEANUP ☐ O-OTHER (specify)
BASE SAMPLE NUMBER <u>GA 85 0017</u>			
ANALYSES REQUESTED (check appropriate blocks)			
GROUP A		GROUP T	
☒ Ammonia 00610	☒ Hardness 00900	☒ Residue, Settlesable 00505	☒ Bromoform 32104
☒ Chemical Oxygen Demand 00340	☒ Iron 01045	☒ Residue, Volatile 00955	☒ Bromodichloromethane 32101
☒ Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00095	☒ Carbon Tetrachloride 32102
☒ Nitrate 00620	☒ Magnesium 00927	☒ Specific Conductance 00945	☒ Chloroform 32106
☒ Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00740	☒ Chloromethane 34418
☒ Oil & Grease 00560	☒ Mercury 71900	☒ Sulfite 00740	☒ Dibromochloromethane 32105
☒ Organic Carbon 00680	☒ Nickel 01067	☒ Surfactants -MBAS 38260	☒ Methylene Chloride 34423
☒ Orthophosphate 00671	☒ Potassium 00937	☒ Turbidity 00076	☒ Tetrachloroethylene 34475
☒ Phosphorus, Total 00665	☒ Selenium 01147		☒ 1,1,1-Trichloroethane 34506
	☒ Silver 01077		☒ Trichloroethylene 39180
	☒ Sodium 00929		☒ Trihalomethanes 82080
GROUP D	☒ Thallium 01059	☒ EHC Isomers 39340	☒ PCBs 39516
☒ Cyanide, Total 00720	☒ Zinc 01092	☒ Chlordane 39350	
☒ Cyanide, Free 00722		☒ DDT Isomers 39370	
		☒ Dieldrin 39380	
GROUP E	GROUP G	☒ Endrin 39390	
☒ Phenols 32730	☒ Acidity, Total 70508	☒ Heptachlor 39410	
	☒ Alkalinity, Total 00410	☒ Heptachlor Epoxide 39420	
GROUP F	☒ Alkalinity, Bicarbonate 00425	☒ Lindane 39782	
☒ Antimony 01097	☒ Bromide 71870	☒ Methoxychlor 39480	
☒ Arsenic 01002	☒ Carbon Dioxide 00405	☒ Toxaphene 39400	
☒ Barium 01007	☒ Chloride 00940	☒ 2,4-D 39730	
☒ Beryllium 01012	☒ Color 00080	☒ 2,4,5-T 39740	
☒ Boron 01022	☒ Fluoride 00951		
☒ Cadmium 01027	☒ Iodide 71865		
☒ Calcium 00916	☒ Odor 00086		
☒ Chromium, Total 01034	☒ Residue, Total 00500		
☒ Chromium VI 01032	☒ Residue, Filterable (TDS) 70300		
☒ Copper 01042	☒ Residue, Nonfilterable 00530		
COMMENTS		ON SITE ANALYSES	
		Parameter	Value
		Flow 50050	mgd
		Chlorine, Total 50060	mg/l
		Dissolved Oxygen 00300	mg/l
		pH 00400	7.4 units
		Temperature 00010	20.5 °C
		GROUP J	
		Sulfides 00745	

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2. LABORATORY PERFORMING ANALYSIS OEH			3. LAB SAMPLE NUMBER 5869-23		4. REQUESTOR SAMPLE NUMBER GP850017						
7. SITE DESCRIPTION					5. DATE RECEIVED BY LAB 28 Jan. 85		6. DATE ANALYSIS COMPLETED 12 Feb. 85				
					ON-SITE ANALYTICAL RESULTS						
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00058 GAL/MIN		10. WEATHER 00041		16. WATER TEMP 000 10 °C		17. PH 00400 UNITS		18. DISS O ₂ 00300 MG/L	
11. COLLECTION DATE/PERIOD Jan 28 1985				12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES					
13. SAMPLING TECHNIQUE				14. PHONE NUMBER							
15. REASON FOR SAMPLE SUBMISSION											
ANALYSES REQUESTED AND RESULTS											
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)											
PRESERVATION GROUP F 72						PRESERVATION GROUP G 73					
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD				
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L1	10 MG/L				
BARIUM	01007	L200	1000 µG/L	PRESERVATION GROUP G 73							
CADMIUM	01027	L10	10 µG/L	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD				
CHROMIUM	01034	L50	50 µG/L	FLUORIDE	00951		See table in AFR 161-44				
LEAD	01051	L20	50 µG/L	TURBIDITY	00076	Units	1 Unit				
MERCURY	71900	L1	2 µG/L	Alk P		120					
SELENIUM	01147	L10	10 µG/L	Silica*		29					
SILVER	01073	L10	50 µG/L								
B. OTHER ANALYSES											
PRESERVATION GROUP F				PRESERVATION GROUP G							
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L			
COPPER	01042	L20	Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945	11			
IRON	01045	L100	Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	38260	<.1			
MANGANESE	01055	L50	Alkalinity, Phenolphth As CaCO ₃	00415		Grp B	69				
ZINC	01092	L50	Alkalinity, Total, As CaCO ₃	00410	120	OTG		0.3			
CALCIUM As Ca	00916	222 mg/l	Chloride	00940		Grp E	71				
MAGNESIUM As Mg	00927	12.8 mg/l	Hardness As CaCO ₃	00900	109	Phenols		<10 mg/L			
POTASSIUM	00937		Residue, Filtrable (TDS)	00515	125	PRESERVATION GROUP J					
SODIUM	00929	42 mg/l	Residue, Non-Filtrable (SS)	00530		PARAMETER					
			Residue	00500	157						
			Specific Conductance	00095	µmhos						
1. ORGANIZATION REQUESTING ANALYSIS * Samples to be analyzed for silica should be sent in plastic bottles not glass. See shipping guide.						CHEMIST for sm3 03 F.H.M.H					
Moody						REVIEWED BY					
						APPROVED BY D. B. B.					

ENVIRONMENTAL SAMPLING DATA

(Use space for mechanical imprint)

SAMPLING SITE IDENTIFIER (AFR 19-7)

0133 PG 006

BASE WHERE SAMPLE COLLECTED

MOODY AFB GA

SAMPLING SITE DESCRIPTION

Well #9 Bldg 2027

DATE COLLECTION BEGAN

(YYMMDD)

8/5/01

TIME COLLECTION BEGAN

(24 hour clock)

COLLECTION METHOD

☒ GRAB ☐ COMPOSITE

HOURS

MAIL REPORTS TO (circle if changed)

ORIGINAL

0133

USAF Hospital Moody / SGPB

COPY 1

MOODY AFB GA 31499-S300

COPY 2

SAMPLE COLLECTED BY (Name, Grade, AFSC)

SIGNATURE

AUTOVON

440-3505

REASON FOR SUBMISSION

☒ A

A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC

C-COMPLAINT N-NPDES

F-FOLLOWUP/CLEANUP O-OTHER (specify)

BASE SAMPLE NUMBER

6F 85 0018

DEHL PID

ANALYSES REQUESTED (check appropriate blocks)

GROUP A		GROUP T	
☒ Ammonia 00610	☒ Hardness 00900	☒ Residue, Settleable 50086	☒ Bromoform 32104
☒ Chemical Oxygen Demand 00340	☒ Iron 01045	☒ Residue, Volatile 00505	☒ Bromodichloromethane 32101
☒ Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00955	☒ Carbon Tetrachloride 32102
☒ Nitrate 00620	☒ Magnesium 00927	☒ Specific Conductance 00095	☒ Chloroform 32106
☒ Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00945	☒ Chloromethane 34418
☒ Oil & Grease 00560	☒ Mercury 71900	☒ Sulfite 00740	☒ Dibromochloromethane 32105
☒ Organic Carbon 00680	☒ Nickel 01067	☒ Surfactants -MBAS 38260	☒ Methylene Chloride 34423
☒ Orthophosphate 00671	☒ Potassium 00937	☒ Turbidity 00076	☒ Tetrachloroethylene 34475
☒ Phosphorus, Total 00665	☒ Selenium 01147		☒ 1,1,1-Trichloroethane 34506
	☒ Silver 01077		☒ Trichloroethylene 39180
	☒ Sodium 00929		☒ Trihalomethanes 82080
	☒ Thallium 01059	☒ BHC Isomers 39340	☒ PCBs 39516
☒ Cyanide, Total 00720	☒ Zinc 01092	☒ Chlordane 39350	
☒ Cyanide, Free 00722		☒ DDT Isomers 39370	
		☒ Dieldrin 39380	
		☒ Endrin 39390	
☒ Phenols 32730	☒ Acidity, Total 70508	☒ Heptachlor 39410	
	☒ Alkalinity, Total 00410	☒ Heptachlor Epoxide 39420	
	☒ Alkalinity, Bicarbonate 00425	☒ Lindane 39782	
☒ Antimony 01097	☒ Bromide 71870	☒ Methoxychlor 39480	
☒ Arsenic 01002	☒ Carbon Dioxide 00405	☒ Toxaphene 39400	
☒ Barium 01007	☒ Chloride 00940	☒ 2,4-D 39730	
☒ Beryllium 01012	☒ Color 00080	☒ 2,4,5-TP-Silve: 39760	
☒ Boron 01022	☒ Fluoride 00951	☒ 2,4,5-T 39740	
☒ Cadmium 01027	☒ Iodide 71865		
☒ Calcium 00916	☒ Odor 00086		
☒ Chromium, Total 01034	☒ Residue, Total 00500		
☒ Chromium VI 01032	☒ Residue, Filterable (TDS) 70300		
☒ Copper 01042	☒ Residue, Nonfilterable 00530		
		☒ Sulfides 00745	

9.10

2. LABORATORY PERFORMING ANALYSIS OEHL			3. LAB SAMPLE NUMBER 5874-78			4. REQUESTOR SAMPLE NUMBER CP850018			
SAMPLE COLLECTION INFORMATION						5. DATE RECEIVED BY LAB 28 Jan. 75		6. DATE ANALYSIS COMPLETED 12 Feb. 75	
7. SITE DESCRIPTION						ON-SITE ANALYTICAL RESULTS			
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00058 GAL/MIN		10. WEATHER 00041		16. WATER TEMP 000 12 °C		17. PH 00400 UNITS	
11. COLLECTION DATE/PERIOD Jan 75 0 32		12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES					
13. SAMPLING TECHNIQUE		14. PHONE NUMBER							
15. REASON FOR SAMPLE SUBMISSION									

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
PRESERVATION GROUP F 77				PRESERVATION GROUP G 78			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	<.1	10 MG/L
BARIUM	01007	L200	1000 µG/L				
CADMIUM	01027	L10	10. µG/L	FLUORIDE	00951		See table in AFR 161-44
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076	Units	1 Unit
LEAD	01051	L20	50 µG/L	Alk B		93	
MERCURY	71900	L1	2 µG/L	silica*		27.5	
SELENIUM	01147	L10	10 µG/L				
SILVER	01073	L10	50 µG/L				

B. OTHER ANALYSES							
PRESERVATION GROUP F				PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L		PARAMETER	TOTAL	MG/L	
COPPER	01042	L20		Acidity, Mineral As CaCO ₃	00436		
IRON	01043	310		Acidity, Total, As CaCO ₃	00435		
MANGANESE	01055	L50		Alkalinity, Phenolphth As CaCO ₃	00415		
ZINC	01092			Alkalinity, Total, As CaCO ₃	00410	93	
CALCIUM As Ca	00916	25.6 ^{mg/l}		Chloride	00940		
MAGNESIUM as Mg	00927	2.7 ^{mg/l}		Hardness As CaCO ₃	00900	75	
POTASSIUM	00937			Residue, Filtrable (TDS)	00515	99	
SODIUM	00920	2.9 ^{mg/l}		Residue, Non-Filtrable (SS)	00530		
				Residue	00500	105	
				Specific Conductance	00095	µmhos	

1. ORGANIZATION REQUESTING ANALYSIS

* Samples to be analyzed for silica content should be shipped in plastic containers, not glass.

Please see shipping guide

Moody

CHEMIST
[Signature]

REVIEWED BY

APPROVED BY
[Signature]

File 15C
ju

ENVIRONMENTAL SAMPLING DATA			
(Use this space for mechanical imprint)			
SAMPLING SITE IDENTIFIER (AFR 19-7)		0133 AG 002	
BASE WHERE SAMPLE COLLECTED MUDDY AFB			
SAMPLING SITE DESCRIPTION WELL NO 10 RIDG 2009			
DATE COLLECTION BEGAN (YYMMDD)	TIME COLLECTION BEGAN (24 hour clock)	COLLECTION METHOD	
18 01 11		☒ GRAB ☐ COMPOSITE _____ HOURS	
MAIL REPORTS TO (circle if changed)	ORIGINAL	USAF HOSPITAL MUDDY / 56 PB	
	COPY 1	MUDDY AFB, GA 31644-5300	
	COPY 2		
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	AUTOVON
			460 3505
REASON FOR SUBMISSION	A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC	C-COMPLAINT N-NPDES	F-FOLLOWUP/CLEANUP O-OTHER (specify)
BASE SAMPLE NUMBER		GA 85 0019	
ANALYSES REQUESTED (check appropriate blocks)			
GROUP A		GROUP T	
☒ Ammonia 00610	☒ Hardness 00900	☒ Residue, Settlingable 50086	☐ Bromoform 32104
☒ Chemical Oxygen Demand 00340	☒ Iron 01045	☒ Residue, Volatile 00505	☐ Bromodichloromethane 32101
☒ Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00955	☐ Carbon Tetrachloride 32102
☒ Nitrate 00620	☒ Magnesium 00927	☒ Specific Conductance 00095	☐ Chloroform 32106
☐ Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00945	☐ Chloromethane 34418
☒ Oil & Grease 00560	☒ Mercury 71900	☒ Sulfite 00740	☐ Dibromochloromethane 32105
☐ Organic Carbon 00680	☐ Nickel 01067	☒ Surfactants -MBAS 38260	☐ Methylene Chloride 34423
☐ Orthophosphate 00671	☐ Potassium 00937	☒ Turbidity 00076	☐ Tetrachloroethylene 34475
☐ Phosphorus, Total 00665	☒ Selenium 01147		☐ 1,1,1-Trichloroethane 34506
	☒ Silver 01077		
	☒ Sodium 00929	GROUP H	☐ Trichloroethylene 39180
GROUP D	☐ Thallium 01059	☐ BHC Isomers 39340	☐ Trihalomethanes 82080
☐ Cyanide, Total 00720	☒ Zinc 01092	☐ Chlordane 39350	☐ PCBs 39516
☐ Cyanide, Free 00722		☐ DDT Isomers 39370	
		☐ Dieldrin 39380	
GROUP E	GROUP G	☒ Endrin 39390	
☒ Phenols 32730	☐ Acidity, Total 70508	☐ Heptachlor 39410	
	☒ Alkalinity, Total 00410	☐ Heptachlor Epoxide 39420	
	☒ Alkalinity, Bicarbonate 00425	☒ Lindane 39782	
☐ Antimony 01097	☐ Bromide 71870	☒ Methoxychlor 39480	
☒ Arsenic 01002	☐ Carbon Dioxide 00405	☒ Toxaphene 39400	
☒ Barium 01007	☐ Chloride 00940	☒ 2,4-D 39730	ON SITE ANALYSES
☐ Beryllium 01012	☐ Color 00080	☐ 2,4,5-TP-Silvex 39760	Parameter Value
☐ Boron 01022	☐ Fluoride 00951	☒ 2,4,5-T 39740	Flow 50050 mgd
☒ Cadmium 01027	☐ Iodide 71865		Chlorine, Total 50060 mg/l
☒ Calcium 00916	☐ Odor 00086		Dissolved Oxygen 00300 mg/l
☒ Chromium, Total 01034	☒ Residue, Total 00500		pH 00400 7.7 units
☐ Chromium VI 01032	☒ Residue, Filterable (TDS) 70300	GROUP J	Temperature 00010 22.5 °C
☒ Copper 01042	☐ Residue, Nonfilterable 00530	☐ Sulfides 00745	
COMMENTS			

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2. LABORATORY PERFORMING ANALYSIS OEHL			3. LAB SAMPLE NUMBER 5879-83			4. REQUESTOR SAMPLE NUMBER CP850019			
SAMPLE COLLECTION INFORMATION						5. DATE RECEIVED BY LAB 28 Jan. 85		6. DATE ANALYSIS COMPLETED 12 Feb. 85	
7. SITE DESCRIPTION						ON-SITE ANALYTICAL RESULTS			
8. SITE LOCATION NO 00088		9. FLOWRATE AT SITE GAL/MIN 00088		10. WEATHER 00041		16. WATER TEMP 000 10 °C 00040		17. PH 00300	
11. COLLECTION DATE/PERIOD				12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES			
13. SAMPLING TECHNIQUE				14. PHONE NUMBER					
18. REASON FOR SAMPLE SUBMISSION									
ANALYSES REQUESTED AND RESULTS									
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)									
PRESERVATION GROUP F 82					PRESERVATION GROUP G 35				
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD		
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L1	10 MG/L		
BARIUM	01007	L200	1000 µG/L	PRESERVATION GROUP G 33					
CADMIUM	01027	L10	10 µG/L	FLUORIDE	00951		See table in AFR 161-44		
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076	Units	1 Unit		
LEAD	01051	L20	50 µG/L	alk B		95			
MERCURY	71900	L1	2 µG/L	silica *		58			
SELENIUM	01147	L10	10 µG/L						
SILVER	01077	L10	50 µG/L						
B. OTHER ANALYSES									
PRESERVATION GROUP F				PRESERVATION GROUP G					
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L	
COPPER	01042	L20	Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00943	20	
IRON	01045	194	Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	38260	6.1	
MANGANESE	01055	L50	Alkalinity, Phenolphth As CaCO ₃	00415		Alp B 79			
ZINC	01092	533	Alkalinity, Total, As CaCO ₃	00410	95	C+G <0.3			
CALCIUM As Ca	00919	22.5	Chloride	00940		Alp E 80			
MAGNESIUM as Mg	00927	2.7	Hardness As CaCO ₃	00900	67	Phenols <12 µg/L			
POTASSIUM	00937	mg/l	Residue, Filtrable (TDS)	00515	101	PRESERVATION GROUP J			
SODIUM	00929	2.7	Residue, Non-Filtrable (SS)	00530		PARAMETER			
			Residue	00500	101				
			Specific Conductance	00095	µmhos				
1. ORGANIZATION REQUESTING ANALYSIS						CHEMIST			
* Samples to be analyzed for silica content should be sent in plastic containers, not glass. Please see shipping guide.						RE			
REVIEWED BY						APPROVED BY			
Moody						Daniel B. B.			

file 15-C
CW

ENVIRONMENTAL SAMPLING DATA															
(Use this space for mechanical imprint)		SAMPLING SITE IDENTIFIER (AFR 19-7) 0133 AG 008 BASE WHERE SAMPLE COLLECTED MOODY AFB SAMPLING SITE DESCRIPTION WELL #12 RIDG 1500													
DATE COLLECTION BEGAN (YYMMDD) 18 5 11	TIME COLLECTION BEGAN (24 hour clock)	COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS													
MAIL REPORTS TO (circle if changed)	ORIGINAL 0133 COPY 1 COPY 2	USAF HOSPITAL MOODY / 56PB MOODY AFB, GA 31644-5500													
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	AUTOVON 460 3505												
REASON FOR SUBMISSION ☒ A	A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC	C-COMPLAINT N-NPDES	F-FOLLOWUP/CLEANUP O-OTHER (specify)												
BASE SAMPLE NUMBER GA 85 0920															
ANALYSES REQUESTED (check appropriate blocks)															
GROUP A		GROUP T													
☒ Ammonia 00610	☒ Hardness 00900	☒ Residue, Settlesable 00505	☒ Bromoform 32104												
☒ Chemical Oxygen Demand 00340	☒ Iron 01045	☒ Residue, Volatile 00955	☒ Bromodichloromethane 32101												
☒ Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00095	☒ Carbon Tetrachloride 32102												
☒ Nitrate 00620	☒ Magnesium 00927	☒ Specific Conductance 00945	☒ Chloroform 32106												
☒ Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00740	☒ Chloromethane 34418												
☒ Oil & Grease 00560	☒ Mercury 71900	☒ Sulfite 00740	☒ Dibromochloromethane 32105												
☒ Organic Carbon 00680	☒ Nickel 01067	☒ Surfactants -MBAS 38260	☒ Methylene Chloride 34423												
☒ Orthophosphate 00671	☒ Potassium 00937	☒ Turbidity 00076	☒ Tetrachloroethylene 34475												
☒ Phosphorus, Total 00665	☒ Selenium 01147		☒ 1,1,1-Trichloroethane 34506												
	☒ Silver 01077		☒ Trichloroethylene 39180												
	☒ Sodium 00929	GROUP H	☒ Trihalomethanes 82080												
GROUP D	☒ Thallium 01059	☒ BHC Isomers 39340	☒ PCBs 39516												
☒ Cyanide, Total 00720	☒ Zinc 01092	☒ Chlordane 39350													
☒ Cyanide, Free 00722		☒ DDT Isomers 39370													
		☒ Dieldrin 39380													
GROUP E	GROUP G	☒ Endrin 39390													
☒ Phenols 32730	☒ Acidity, Total 70508	☒ Heptachlor 39410													
	☒ Alkalinity, Total 00410	☒ Heptachlor Epoxide 39420													
GROUP F	☒ Alkalinity, Bicarbonate 00425	☒ Lindane 39782													
☒ Antimony 01097	☒ Bromide 71870	☒ Methoxychlor 39480													
☒ Arsenic 01002	☒ Carbon Dioxide 00405	☒ Toxaphene 39400													
☒ Barium 01007	☒ Chloride 00940	☒ 2,4-D 39730													
☒ Beryllium 01012	☒ Color 00080	☒ 2,4,5-TP-Silver 39760													
☒ Boron 01022	☒ Fluoride 00951	☒ 2,4,5-T 39740													
☒ Cadmium 01027	☒ Iodide 71865														
☒ Calcium 00916	☒ Odor 00086														
☒ Chromium, Total 01034	☒ Residue, Total 00500														
☒ Chromium VI 01032	☒ Residue, Filterable (TDS) 70300	GROUP J													
☒ 01042	☒ Residue, Nonfilterable 00530	☒ Sulfides 00745													
REMARKS		ON SITE ANALYSES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Flow</td> <td>50050 mgd</td> </tr> <tr> <td>Chlorine, Total</td> <td>50060 mg/l</td> </tr> <tr> <td>Dissolved Oxygen</td> <td>00300 mg/l</td> </tr> <tr> <td>pH</td> <td>00400 7 units</td> </tr> <tr> <td>Temperature</td> <td>00010 20.3 °C</td> </tr> </tbody> </table>		Parameter	Value	Flow	50050 mgd	Chlorine, Total	50060 mg/l	Dissolved Oxygen	00300 mg/l	pH	00400 7 units	Temperature	00010 20.3 °C
Parameter	Value														
Flow	50050 mgd														
Chlorine, Total	50060 mg/l														
Dissolved Oxygen	00300 mg/l														
pH	00400 7 units														
Temperature	00010 20.3 °C														

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4D FOR MAR

ANALYSIS

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2. LABORATORY PERFORMING ANALYSIS OEHL		3. LAB SAMPLE NUMBER 5884-88		4. REQUESTOR SAMPLE NUMBER CP850020	
5. SAMPLE COLLECTION INFORMATION				6. DATE RECEIVED BY LAB 28 Jan 85	
7. SITE DESCRIPTION				6. DATE ANALYSIS COMPLETED 12 Feb 85	
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00058 GAL/MIN		10. WEATHER 00041	
11. COLLECTION DATE/PERIOD 0 30 MIN		12. NAME OF COLLECTOR		13. RESULTS OF OTHER ON-SITE ANALYSES	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER		15. REASON FOR SAMPLE SUBMISSION	

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
PRESERVATION GROUP F				PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	L.1	10 MG/L
BARIUM	01007	L200	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01027	L10	10 µG/L	FLUORIDE	00951		See table in AFR 161-44
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076	Units	1 Unit
LEAD	01051	L20	50 µG/L	alk B		116	
MERCURY	71900	L1	2 µG/L	silica*		100	
SELENIUM	01142	L10	10 µG/L				
SILVER	01077	L10	50 µG/L				

PRESERVATION GROUP F				PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL
COPPER	01042	L20	Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945
IRON	01045	L100	Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	00260
MANGANESE	01055	L50	Alkalinity, Phenolphthalein As CaCO ₃	00415			
ZINC	01092	144	Alkalinity, Total, As CaCO ₃	00410	116		
CALCIUM As Ca	00916	25.9 mg	Chloride	00940			
MAGNESIUM as Mg	00927	11.8 mg	Hardness As CaCO ₃	00900	113		
POTASSIUM	00937		Residue, Filtrable (TDS)	00515	131		
SODIUM	00929	3.8 mg	Residue, Non-Filtrable (SS)	00530			
			Residue	00500	156		
			Specific Conductance	00095	µmhos		

1. ORGANIZATION REQUESTING ANALYSIS
* Samples to be analyzed for silica content should be shipped in plastic containers not glass. See shipping guide

CHEMIST
K. J. GINS E.H.M.H.

REVIEWED BY

APPROVED BY
D. J. B. D.

file 13-1
80

ENVIRONMENTAL SAMPLING DATA			
(Use this space for mechanical imprint)		SAMPLING SITE IDENTIFIER (APR 19-7) 0133 RG 888	
		BASE WHERE SAMPLE COLLECTED MOODY AFB	
		SAMPLING SITE DESCRIPTION WELL NO 13 RIDG 1501	
DATE COLLECTION BEGAN (YYMMDD) 81 5 11		TIME COLLECTION BEGAN (24 hour clock)	
		COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS	
MAIL REPORTS TO (circle if changed)	ORIGINAL	USAF HOSPITAL MOODY / SGPB MOODY AFB, GA 31644-5300	
	COPY 1		
	COPY 2		
SAMPLE COLLECTED BY (Name, Grade, AFSC)		SIGNATURE	AUTOVON 460 3505
REASON FOR SUBMISSION	☒ A	A-ACCIDENT/INCIDENT R-ROUTINE/PERIODIC	C-COMPLAINT N-NPDES
		F-FOLLOWUP/CLEANUP Q-OTHER (specify)	
BASE SAMPLE NUMBER		GA 85 0021	
ANALYSES REQUESTED (check appropriate blocks)			
GROUP A		GROUP T	
☒ Ammonia 00610	☒ Hardness 00900	☒ Residue, Settling 50086	☒ Bromoform 32104
☒ Chemical Oxygen Demand 00340	☒ Iron 01045	☒ Residue, Volatile 00505	☒ Bromodichloromethane 32101
☒ Kjeldahl Nitrogen 00625	☒ Lead 01051	☒ Silica 00955	☒ Carbon Tetrachloride 32102
☒ Nitrate 00620	☒ Magnesium 00927	☒ Specific Conductance 00095	☒ Chloroform 32106
☒ Nitrite 00615	☒ Manganese 01055	☒ Sulfate 00945	☒ Chloromethane 34418
☒ Oil & Grease 00560	☒ Mercury 71900	☒ Sulfite 00740	☒ Chloromethane 32105
☒ Organic Carbon 00680	☒ Nickel 01067	☒ Surfactants -MBAS 38260	☒ Dibromochloromethane 34423
☒ Orthophosphate 00671	☒ Potassium 00937	☒ Turbidity 00076	☒ Methylene Chloride 34475
☒ Phosphorus, Total 00665	☒ Selenium 01147		☒ Tetrachloroethylene 34506
	☒ Silver 01077		☒ 1,1,1-Trichloroethane 39180
	☒ Sodium 00929	GROUP H	
GROUP D		☒ BHC Isomers 39340	☒ Trichloroethylene 82080
☒ Cyanide, Total 00720	☒ Thallium 01059	☒ Chlordane 39350	☒ PCBs 39516
☒ Cyanide, Free 00722	☒ Zinc 01092	☒ DDT Isomers 39370	
		☒ Dieldrin 39380	
GROUP E		☒ Endrin 39390	
☒ Phenols 32730	GROUP G		
	☒ Acidity, Total 70508	☒ Heptachlor 39410	
	☒ Alkalinity, Total 00410	☒ Heptachlor Epoxide 39420	
GROUP F		☒ Lindane 39782	
☒ Antimony 01097	☒ Alkalinity, Bicarbonate 00425	☒ Methoxychlor 39480	
☒ Arsenic 01002	☒ Bromide 71870	☒ Toxaphene 39400	
☒ Barium 01007	☒ Carbon Dioxide 00405	☒ 2,4-D 39730	
☒ Beryllium 01012	☒ Chloride 00940	☒ 2,4,5-TP-Silvex 39760	
☒ Boron 01022	☒ Color 00080	☒ 2,4,5-T 39740	
☒ Cadmium 01027	☒ Fluoride 00951		
☒ Calcium 00916	☒ Iodide 71865		
☒ Chromium, Total 01034	☒ Odor 00086		
☒ Chromium VI 01032	☒ Residue, Total 00500		
☒ Copper 01042	☒ Residue, Filterable (TDS) 70300		
	☒ Residue, Nonfilterable 00530		
COMMENTS		ON SITE ANALYSES	
		Parameter	Value
		Flow	50050 mgd
		Chlorine, Total	50060 mg/l
		Dissolved Oxygen	00300 mg/l
		pH	00400 7 (units)
		Temperature	00010 20.0 °C
		GROUP J	
		Sulfides 00745	

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2. LABORATORY PERFORMING ANALYSIS OEHL			3. LAB SAMPLE NUMBER 5889-93		4. REQUESTOR SAMPLE NUMBER 64850021						
7. SITE DESCRIPTION					5. DATE RECEIVED BY LAB 28 Jan 85		6. DATE ANALYSIS COMPLETED 12 Feb 85				
					ON-SITE ANALYTICAL RESULTS						
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00058 GAL/MIN		10. WEATHER 00041		16. WATER TEMP 000 10 °C		17. PH 00400 UNITS		18. DISS O ₂ 00300 MG/L	
11. COLLECTION DATE/PERIOD Jan 27 85				12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES					
13. SAMPLING TECHNIQUE				14. PHONE NUMBER							
15. REASON FOR SAMPLE SUBMISSION											
ANALYSES REQUESTED AND RESULTS											
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)											
PRESERVATION GROUP F 42						PRESERVATION GROUP 32					
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD		PARAMETER	TOTAL	MG/L	MAX LEV ALLWD			
ARSENIC	01002	L10	50 µG/L		NITRATE AS N (Cadmium Reduction Method)	00620	L.1	10 MG/L			
BARIUM	01007	L200	1000 µG/L		PRESERVATION GROUP G 93						
CADMIUM	01027	L10	10 µG/L		PARAMETER	TOTAL	MG/L	MAX LEV ALLWD			
CHROMIUM	01034	L50	50 µG/L		FLUORIDE	00951		See table in AFR 161-46			
LEAD	01051	L20	50 µG/L		TURBIDITY	00076	Units	1 Unit			
MERCURY	71900	L1	2 µG/L		alk B		124				
SELENIUM	01147	L10	10 µG/L		silica*		27				
SILVER	01077	L10	50 µG/L								
B. OTHER ANALYSES											
PRESERVATION GROUP F				PRESERVATION GROUP G							
PARAMETER	TOTAL	µG/L	PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L			
COPPER	01042	L20	Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945	17			
IRON	01045	L100	Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	00260	<0.1			
MANGANESE	01053	L50	Alkalinity, Phenolphthalein As CaCO ₃	00415		Grp B 89					
ZINC	01092	601	Alkalinity, Total, As CaCO ₃	00410	124	C+G		<0.3			
CALCIUM As Ca	00916	264 mg/l	Chloride	00940		Grp E 90					
MAGNESIUM As Mg	00922	11.5 mg/l	Hardness As CaCO ₃	00900	114	phenols		<10 µg/L			
POTASSIUM	00937		Residue, Filtrable (TDS)	00515	123	PRESERVATION GROUP J					
SODIUM	00929	4.5 mg/l	Residue, Non-Filtrable (SS)	00530		PARAMETER					
			Residue	00500	148						
			Specific Conductance	00095	µmhos						
1. ORGANIZATION REQUESTING ANALYSIS * Surplus to be analyzed by silica content should be sent in plastic containers, not glass. See shipping guide.						CHEMIST JAN 5ms E.H. 4/83					
						REVIEWED BY					
						APPROVED BY D. B. B.					

ENVIRONMENTAL SAMPLING DATA																																																									
(Use this space for mechanical imprint)		SAMPLING SITE IDENTIFIER (AFR 19-7) 0133 PD 012 BASE WHERE SAMPLE COLLECTED MOODY AFB SAMPLING SITE DESCRIPTION MISSION LAKE, BLDG 1705																																																							
DATE COLLECTION BEGAN (YYMMDD) 8/20/05		TIME COLLECTION BEGAN (24 hour clock) 0830 COLLECTION METHOD ☒ GRAB ☐ COMPOSITE _____ HOURS																																																							
MAIL REPORTS TO (circle if changed) ORIGINAL 0133 COPY 1 _____ COPY 2 _____		USAF HOSPITAL, MOODY (SGPM) MOODY AFB, GA 31699																																																							
SAMPLE COLLECTED BY (Name, Grade, AFSC) S.W. PRAWOZIK, TSGT, 90770		SIGNATURE Stephen W Prawozik AUTOVON 460-3505																																																							
REASON FOR SUBMISSION ☒ R		☐ A-ACCIDENT/INCIDENT ☐ R-ROUTINE/PERIODIC ☐ C-COMPLAINT ☐ F-FOLLOWUP/CLEANUP ☐ N-NPDES ☐ O-OTHER (specify)																																																							
BASE SAMPLE NUMBER GP 82 0012																																																									
ANALYSES REQUESTED (check appropriate blocks)																																																									
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		Parameter	Value																																																						
		Flow	50050 — mgd																																																						
		Chlorine, Total	50060 0.3 mg/l																																																						
		Dissolved Oxygen	00300 4.0 mg/l																																																						
		pH	00400 6.6 units																																																						
		Temperature	00010 16 °C																																																						
COMMENTS PLEASE COMPUTE CORROSIVITY INDEX																																																									

09.10

1. LABORATORY PERFORMING ANALYSIS		2. LAB SAMPLE NUMBER 1403-405		3. REQUESTOR SAMPLE NUMBER G P 92001	
7. SITE DESCRIPTION				5. DATE RECEIVED BY LAB 13 Jan. 82	
SAMPLE COLLECTION INFORMATION				6. DATE ANALYSIS COMPLETED 22 Jan. 82	
8. SITE LOCATION NO	9. FLOWRATE AT SITE 00088 GAL/MIN	10. WEATHER 00041	16. WATER TEMP 000 10 °C	17. PH 00400 UNITS	18. DISS O ₂ 00300 MG/L
11. COLLECTION DATE/PERIOD		12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES Mission Lake Well	
13. SAMPLING TECHNIQUE		14. PHONE NUMBER			
15. REASON FOR SAMPLE SUBMISSION					

ANALYSES REQUESTED AND RESULTS							
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)							
404 PRESERVATION GROUP F				403 PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD
ARSENIC	01002	L10	50 µG/L	NITRATE AS N (Cadmium Reduction Method)	00620	< .1	10 MG/L
BARIUM	01007	L1000	1000 µG/L	PRESERVATION GROUP G			
CADMIUM	01036	L10	10 µG/L	FLUORIDE	00951		See table in 40CFR 141-44
CHROMIUM	01034	L50	50 µG/L	TURBIDITY	00076	Units	1 Unit
LEAD	0105	L20	50 µG/L	Alkalinity, Bicarbonate = 116			
MERCURY	7190	L2	2 µG/L	Carbon Dioxide (by Calc.) = 51			
SELENIUM	01147	L10	10 µG/L	Color =			
SILVER	0107	L10	50 µG/L	odor = Plastic Container			
B. OTHER ANALYSES							
PRESERVATION GROUP F				PRESERVATION GROUP G			
PARAMETER	TOTAL	µG/L		PARAMETER	TOTAL	MG/L	
COPPER	01042			Acidity, Mineral As CaCO ₃	00436		
IRON	01044	105		Acidity, Total As CaCO ₃	00435		
MANGANESE	01033	L50		Alkalinity, Phenolphthalein As CaCO ₃	00415	0	
ZINC	01092	365		Alkalinity, Total As CaCO ₃	00410	116	Silica 52.0
CALCIUM As Ca	00918	22.0		Chloride	00940	4	Corrosivity Index = -2.0
MAGNESIUM As Mg	00927	13.1		Hardness As CaCO ₃	00900	109	
POTASSIUM	00937			Residue, Filtrable (TDS)	00513	140	
SODIUM	00929	3.7		Residue, Non-Filtrable (SS)	00530		
				Residue	00500		
				Specific Conductance	00095	µmhos	

1. ORGANIZATION REQUESTING ANALYSIS Moody AFB		CHEMIST RAB J. H. H.	
		REVIEWED BY	
		APPROVED BY D. J. H.	

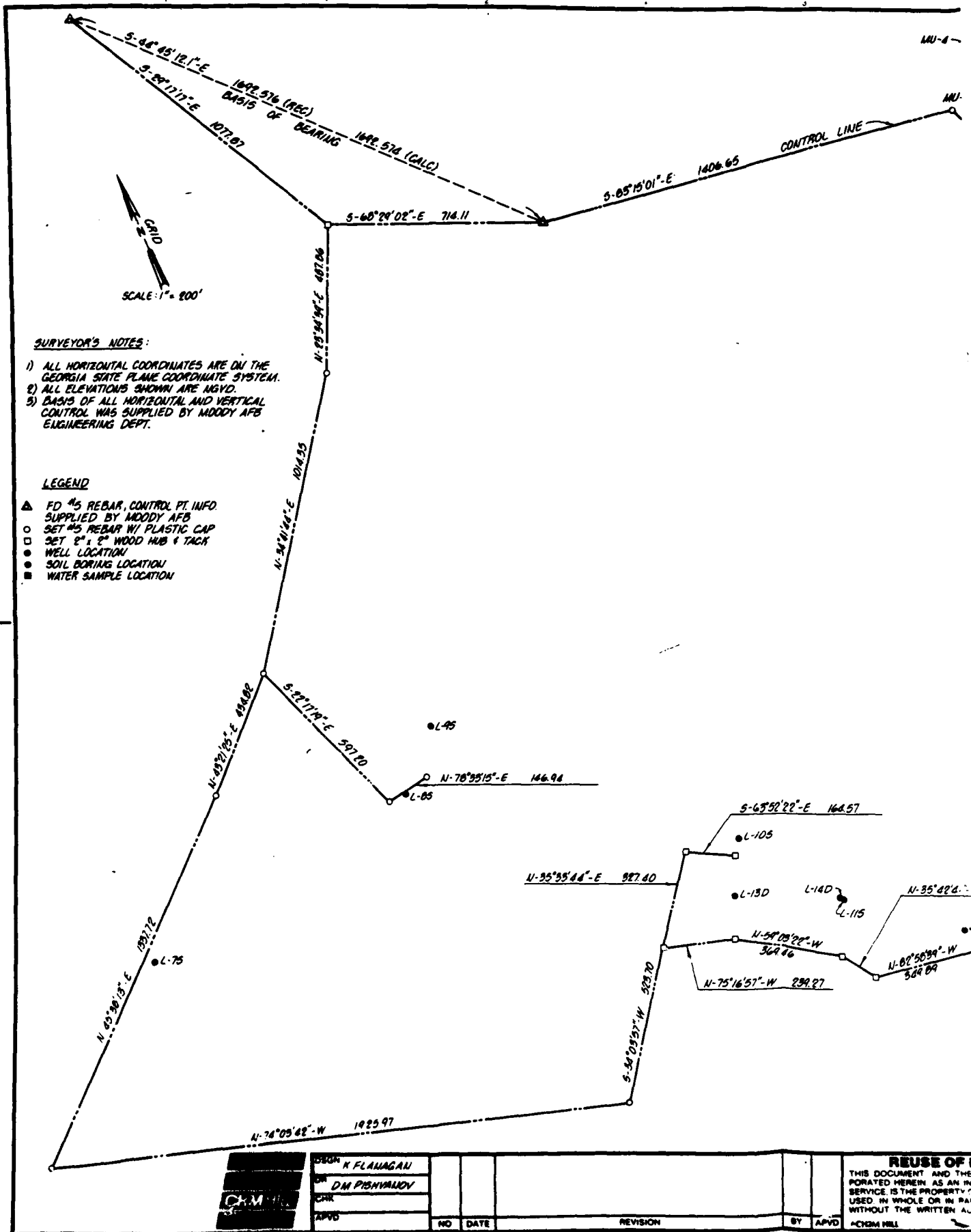
ENVIRONMENTAL SAMPLING DATA				14.			
(Use this space for mechanical imprint)				SAMPLING SITE IDENTIFIER (AFR 15-7)			
				0133 PD 013			
				BASE WHERE SAMPLE COLLECTED			
MOODY AFB				SAMPLING SITE DESCRIPTION			
GRASSY POND, BLDG 2019				COLLECTION METHOD			
DATE COLLECTION BEGAN				TIME COLLECTION BEGAN			
18.2.91 1951				0830			
MAIL REPORTS TO (circle if changed)				ORIGINAL			
COPY 1				COPY 2			
SAMPLE COLLECTED BY (Name, Grade, AFSC)				SIGNATURE			
S.W. PRAWDZIK, TSGT, 90770				Stephen W Prawdzik			
REASON FOR SUBMISSION				AUTOVON			
2				460-3505			
BASE SAMPLE NUMBER				GP 82 0013			
ANALYSES REQUESTED (check appropriate blocks)							
GROUP A		Hardness		00900		50086	
00610		Iron		01045		Residue, Settlesable	
00340		Lead		01051		00505	
00625		Magnesium		00927		00955	
00620		Manganese		01055		00095	
00615		Mercury		71900		00945	
00560		Nickel		01067		00740	
00680		Potassium		00937		38260	
00671		Selenium		01147		00076	
00665		Silver		01077		CORROSIVITY	
		Sodium		00929		GROUP H	
GROUP D		Thallium		01059		39340	
00720		Zinc		01092		39350	
00722						39370	
						39380	
GROUP E		GROUP G		X		39390	
32730		Acidity, Total		70508		39410	
		Alkalinity, Total		00410		39420	
GROUP F		Alkalinity, Bicarbonate		00425		39782	
01097		Bromide		71870		39480	
01002		Carbon Dioxide		00405		39400	
01007		Chloride		00940		39730	
01012		Color		00080		39760	
01022		Fluoride		00951		39740	
01027		Iodide		71865			
00916		Odor		00086			
01034		Residue, Total		00500			
01032		Residue, Filterable (TDS)		70300			
01042		Residue, Nonfilterable		00530			
						GROUP J	
						00745	
ON SITE ANALYSES							
Parameter				Value			
Flow				50050			
Chlorine, Total				50060			
Dissolved Oxygen				00300			
pH				00400			
Temperature				00010			
				20° oc			
COMMENTS							
PLEASE COMPUTE CORROSIVITY INDEX							

AF FORM 2752
JAN 61

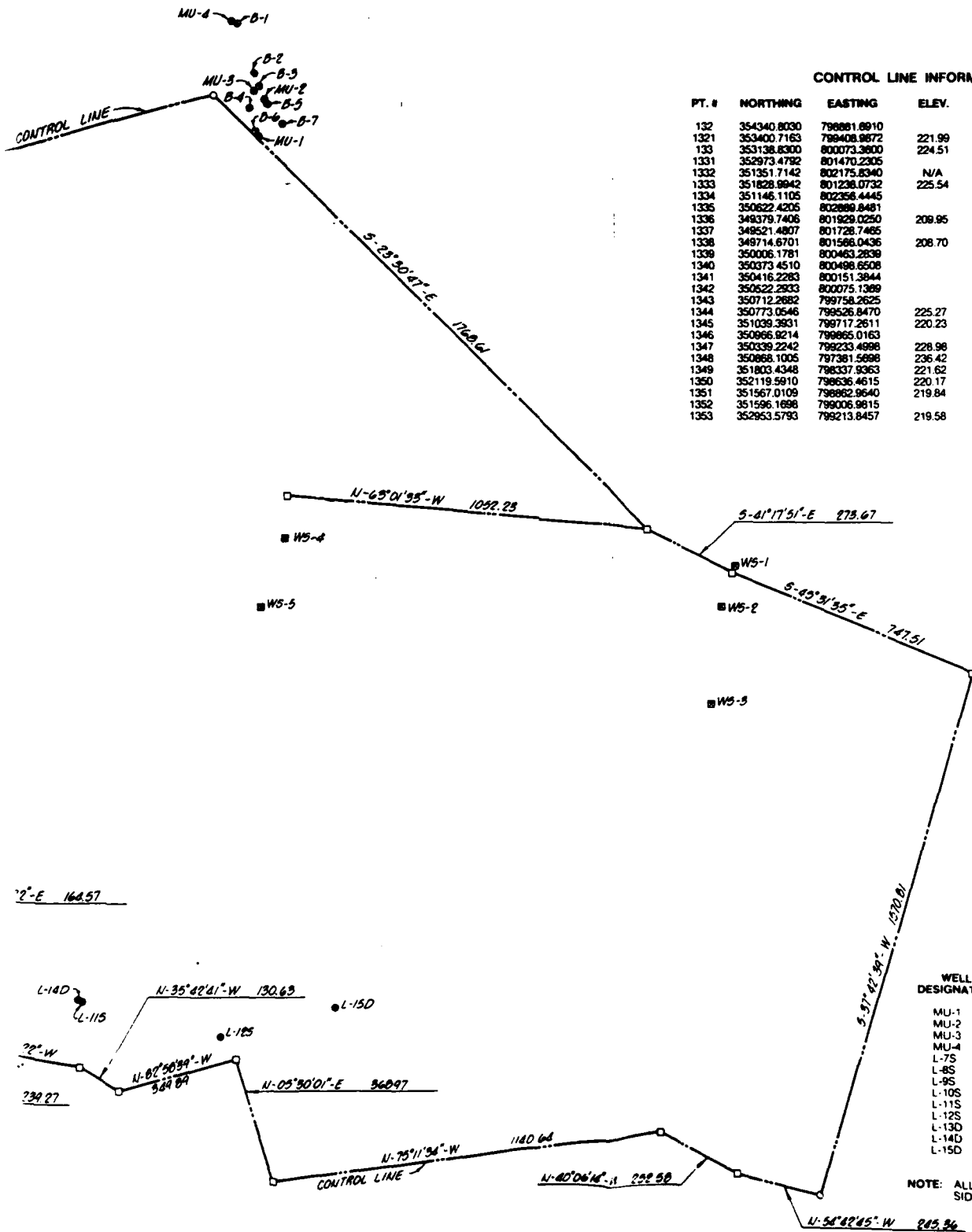
09.10

2. LABORATORY PERFORMING ANALYSIS			3. LAB SAMPLE NUMBER 1406-408		4. REQUESTOR SAMPLE NUMBER GP 820013						
7. SITE DESCRIPTION					5. DATE RECEIVED BY LAB 13 Jan. 82		6. DATE ANALYSIS COMPLETED 22 Jan. 82				
					ON-SITE ANALYTICAL RESULTS						
8. SITE LOCATION NO		9. FLOWRATE AT SITE 00088 GAL/MIN		10. WEATHER 00041		16. WATER TEMP 000 10 °C		17. PH 00400 UNITS		18. DISS O ₂ 00900 MG/L	
11. COLLECTION DATE/PERIOD				12. NAME OF COLLECTOR		19. RESULTS OF OTHER ON-SITE ANALYSES GRASSY POND INLET					
13. SAMPLING TECHNIQUE				14. PHONE NUMBER							
15. REASON FOR SAMPLE SUBMISSION											
ANALYSES REQUESTED AND RESULTS											
A. PRIMARY DRINKING WATER STANDARDS (40CFR 141)											
407 PRESERVATION GROUP F				PRESERVATION GROUP C 04							
PARAMETER	TOTAL	μG/L	MAX LEV ALLWD	PARAMETER	TOTAL	MG/L	MAX LEV ALLWD				
ARSENIC	0100	210	50 μG/L	NITRATE AS N (Cadmium Reduction Method)	00620	<1	10 MG/L				
BARIUM	01047	21000	1000 μG/L	PRESERVATION GROUP G							
CADMIUM	01023	210	10 μG/L	415 PARAMETER	TOTAL	MG/L	MAX LEV ALLWD				
CHROMIUM	01034	250	50 μG/L	FLUORIDE	00951		See table in AFR 162-44				
LEAD	01035	220	50 μG/L	TURBIDITY	00076	Units	1 Unit				
MERCURY	71908	22	2 μG/L	alkalinity Bicarbonate = 133 MG/L							
SELENIUM	0114	210	10 μG/L	Carbon Dioxide (by calc) = 30 MG/L							
SILVER	01077	210	50 μG/L	Color : 5 Units							
				odor = Plastic Container							
B. OTHER ANALYSES											
PRESERVATION GROUP F				PRESERVATION GROUP G							
PARAMETER	TOTAL	μG/L		PARAMETER	TOTAL	MG/L	PARAMETER	TOTAL	MG/L		
COPPER	01042			Acidity, Mineral As CaCO ₃	00436		Sulfate As SO ₄	00945	8		
IRON	01043	282		Acidity, Total, As CaCO ₃	00435		Surfactants MBAS As LAS	00290	<1		
MANGANESE	01035	250		Alkalinity, Phenolphth As CaCO ₃	00415	0					
ZINC	01093	98		Alkalinity, Total, As CaCO ₃	00410	133	Silica		21.6		
CALCIUM As Ca	00915	37.4	ME	Chloride	00940	4	Corrosivity Index = -1.2				
MAGNESIUM As Mg	00937	3.9	ME	Hardness As CaCO ₃	00900	109					
POTASSIUM	00937		ME	Residue, Filtrable (TDS)	00518	145	PRESERVATION GROUP J				
SODIUM	00937	2.5	ME	Residue, Non-Filtrable (SS)	00530		PARAMETER				
				Residue	00500						
				Specific Conductance	00095	μmhos					
1. ORGANIZATION REQUESTING ANALYSIS Moody						CHEMIST R. M. Obo 38-2					
						REVIEWED BY					
						APPROVED BY D. Bird					

Appendix K
SITE SURVEY
(PHASE II, STAGE 2)



103



CONTROL LINE INFORMATION

PT. #	NORTHING	EASTING	ELEV.	POINT OF ELEVATION
132	354340.8030	798881.8910		TOP CNTR. FD. IRON PIPE
1321	353400.7163	798408.9872	221.99	TOP CNTR. 2" x 2" H&T
133	353138.8300	800073.3800	224.51	
1331	352973.4792	801470.2305		TOP CNTR. #5 REBAR W/ C/
1332	351351.7142	802175.8340	N/A	
1333	351828.9942	801238.0732	225.54	
1334	351146.1105	802358.4445		
1335	350622.4205	802889.8481		
1336	349379.7406	801929.0250	208.95	TOP CNTR. #5 REBAR W/ C/
1337	348521.4807	801728.7465		
1338	349714.6701	801566.0436	208.70	TOP CNTR. 2" x 2" H&T
1339	350006.1781	800463.2839		
1340	350373.4510	800498.6508		
1341	350416.2283	800151.3844		
1342	350522.2833	800075.1369		TOP CNTR. 2" x 2" H&T
1343	350712.2682	799758.2625		
1344	350773.0546	799526.8470	225.27	TOP CNTR. 2" x 2" H&T
1345	351039.3531	799717.2511	220.23	TOP CNTR. 2" x 2" H&T
1346	350966.9214	799866.0163		
1347	350339.2242	799233.4998	228.98	TOP CNTR. #5 REBAR & CAI
1348	350868.1005	797381.5698	236.42	TOP CNTR. #5 REBAR & CAI
1349	351803.4348	798337.9363	221.62	TOP CNTR. #5 REBAR & CAI
1350	352119.5910	798636.4615	220.17	TOP CNTR. #5 REBAR & CAI
1351	351567.0109	798862.9640	219.84	TOP CNTR. #5 REBAR & CAI
1352	351596.1698	799006.9815		
1353	352953.5793	799213.8457	219.58	TOP CNTR. #5 REBAR & CAI

SOIL BORING

BORING DESIGNATION	NC
B-1	35'
B-2	35'
B-3	35'
B-4	35'
B-5	35'
B-6	35'
B-7	35'

WATER SAMPLE

SAMPLE DESIGNATION	NOR'
WS-1	35115
WS-2	35106
WS-3	35081
WS-4	35171
WS-5	35155

WELL INFO

WELL DESIGNATION	NORTHING
MU-1	352818 7941
MU-2	352901 6430
MU-3	352937 9204
MU-4	353144 7738
L-75	351371 1625
L-85	351572 5546
L-85	351748 6794
L-105	351015 0489
L-115	350698 1914
L-125	350453 4691
L-130	350844 2649
L-140	350701 3562
L-150	350404 5267

NOTE: ALL WELL ELEVATIONS ARE 1 SIDE OF THE CASING WITH

REUSE OF DOCUMENTS

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

MOODY
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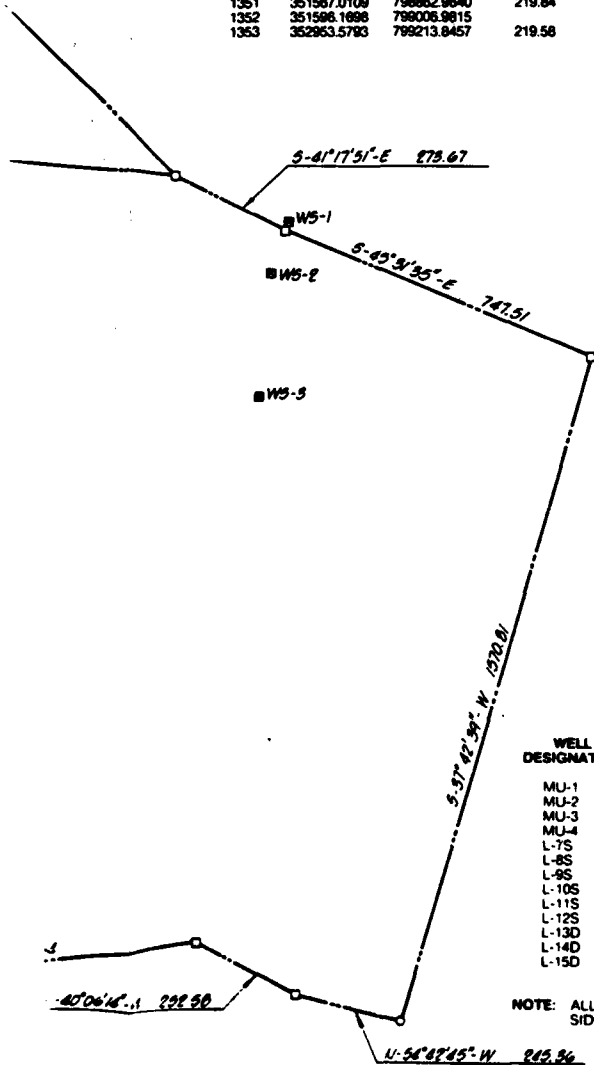
SURVEY INFORMATION

APVD: CH2M HILL

2 023

CONTROL LINE INFORMATION

PT. #	NORTHING	EASTING	ELEV.	POINT OF ELEVATION
132	354340.8030	798881.8910		TOP CNTR. FD. IRON PIPE
1321	353400.7163	798408.9872	221.99	TOP CNTR. 2" x 2" H&T
133	353138.8300	800073.3800	224.51	
1331	352973.4792	801470.2305		TOP CNTR. #5 REBAR W/ CAP
1332	351351.7142	802175.6340	N/A	
1333	351828.9942	801238.0732	225.54	
1334	351146.1105	802356.4445		
1335	350822.4205	802889.8481		
1336	349379.7406	801929.0250	209.95	TOP CNTR. #5 REBAR W/ CAP PLS 3942
1337	348521.4907	801728.7485		
1338	349714.6701	801585.0436	208.70	TOP CNTR. 2" x 2" H&T
1339	350006.1781	800483.2638		
1340	350373.4510	800488.8208		
1341	350416.2283	800151.3844		
1342	350522.2933	800075.1389		TOP CNTR. 2" x 2" H&T
1343	350712.2682	799758.2625		
1344	350773.0546	799526.8470	225.27	TOP CNTR. 2" x 2" H&T
1345	351039.3931	799717.2611	220.23	TOP CNTR. 2" x 2" H&T
1346	350866.9214	799885.0163		
1347	350339.2242	799233.4988	228.98	TOP CNTR. #5 REBAR & CAP
1348	350868.1005	797361.5888	236.42	TOP CNTR. #5 REBAR & CAP
1349	351803.4348	798337.9383	221.62	TOP CNTR. #5 REBAR & CAP
1350	352119.5910	798636.4815	220.17	TOP CNTR. #5 REBAR & CAP
1351	351587.0108	798862.9840	219.84	TOP CNTR. #5 REBAR & CAP
1352	351588.1888	798006.9815		
1353	352953.5793	798213.8457	219.58	TOP CNTR. #5 REBAR & CAP



SOIL BORING LOCATIONS

BORING DESIGNATION	NORTHING	EASTING
B-1	353144.3816	801604.4871
B-2	352986.2414	801802.9579
B-3	352948.3324	801800.9938
B-4	352886.2179	801550.8768
B-5	352857.8917	801600.9450
B-6	352820.8018	801540.9838
B-7	352822.3885	801623.4697

WATER SAMPLE LOCATIONS

SAMPLE DESIGNATION	NORTHING	EASTING
WS-1	351157.5895	802369.4738
WS-2	351067.2014	802290.3645
WS-3	350817.1995	802158.7144
WS-4	351717.6426	801187.0886
WS-5	351558.7080	801045.6105

WELL INFORMATION

WELL DESIGNATION	NORTHING	EASTING	ELEVATION
MU-1	352818.7941	801542.7480	225.44
MU-2	352901.6430	801600.8900	224.40
MU-3	352937.9204	801580.0898	225.48
MU-4	353144.7738	801802.1085	226.04
L-7S	351371.1825	797943.6365	230.06
L-8S	351572.5546	798823.7488	222.77
L-9S	351748.8794	798085.0946	219.86
L-10S	351015.0489	798897.2328	220.40
L-11S	350898.1914	800148.4988	222.31
L-12S	350453.4891	800479.5749	222.63
L-13D	350844.2649	799813.9088	223.85
L-14D	350701.3582	800144.0156	222.31
L-15D	350404.5267	800819.2918	219.14

NOTE: ALL WELL ELEVATIONS ARE AT THE TOP OF THE NORTH SIDE OF THE CASING WITH THE CAPS REMOVED

MOODY
AIR FORCE BASE

SURVEY INFORMATION

SHEET 1 OF 1
DWG
NO
DATE DEC. 1986
PROJ
NO 6421222.C0

PRELIMINARY

Appendix L
ANALYTICAL METHODS, PROCEDURES, DETECTION LEVELS,
AND HOLDING TIMES

ANALYTICAL PARAMETERS
METHODS AND DETECTION LIMITS

Parameter	Medium	Method	Detection Limit ^a
Halogenated Volatile Organics	Water	E601	0.001 mg/l
	Soil	SW5030/SW8010	0.001 mg/l
Aromatic Volatile Organics	Water	SW5030/SW8020	0.001 mg/l
	Soil	SW5030/SW8020	0.001 mg/l
Extractable Priority Pollutants	Water	E625	0.01 to 0.05 ^b mg/l range
Petroleum Hydrocarbons	Water	E418.1	1 mg/l
	Soil	SW3550/E418.1	1 mg/l
Priority Pollutant Metals	Water	E200.7	
Sb			0.053 mg/l
Be			0.0003 mg/l
Cd			0.004 mg/l
Cr			0.007 mg/l
Cu			0.006 mg/l
Pb			0.042 mg/l
Ni			0.015 mg/l
Ag			0.007 mg/l
Tl			0.040 mg/l
Zn			0.002 mg/l
Selenium	Water	E270.2	0.002 mg/l
Arsenic	Water	E206.2	0.001 mg/l
Lead	Water	E239.2	0.002 mg/l
	Soil	SW3010/SW7420	50 mg/kg
Mercury	Water	E245.1	0.0002 mg/l
Filterable Residue	Water	E160.1	10 mg/l

^a Detection limits may vary if sample must be diluted for analysis or if matrix interference occurs.

^b Detection limits for Method E625 are compound specific.

SAMPLE CONTAINERS, PRESERVATION TECHNIQUES, AND HOLDING TIMES

Sample Parameter	Container ^a	Preservation Technique ^{b,c}	Maximum Holding Time ^d
Metals (except Chromium (VI) and Mercury)	P,G	HNO ₃ to pH <2	6 months
Chromium (VI)	P,G	Cool to 4°C	24 hours
Mercury	P	HNO ₃ to pH <2	28 days
Purgeable Halocarbons ^f	G, Teflon®-lined septum	Cool to 4°C 0.008% Na ₂ S ₂ O ₃ ^e	14 days
Purgeable Aromatics ^f	G, Teflon®-lined septum	Cool to 4°C 0.008% Na ₂ S ₂ O ₃ ^e HCl to pH <2 ^g	14 days
Base/Neutral Extractables ^f	G, Teflon®-lined septum	Cool to 4°C 0.008% Na ₂ S ₂ O ₃ ^e	7 days until extraction, 40 days after extraction
Acid Extractables ^f	G, Teflon®-lined septum	Cool to 4°C 0.008% Na ₂ S ₂ O ₃ ^e	7 days until extraction, 40 days after extraction
TDS	P,G	Cool to 4°C	7 days
Petroleum Hydrocarbons	G	HCl to pH 6.1 Cool to 4°C	None specified if preserved.

^aPolyethylene (P) or Glass (G).

^bSample preservation should be performed immediately upon sample collection. For composite chemical samples each aliquot should be preserved at the time of collection. When use of an automated sampler makes it impossible to preserve each aliquot, then chemical samples may be preserved by maintaining at 4°C until compositing and sample splitting is completed.

^cWhen any sample is to be shipped by common carrier or sent through the United States Mails, it must comply with the Department of Transportation Hazardous Materials Regulations (49 CFR Part 172). The person offering such material for transportation is responsible for ensuring such compliance. For the preservation requirements of Table 6-1, the Office of Hazardous Materials, Materials Transportation Bureau, Department of Transportation has determined that the Hazardous Materials Regulations do not apply to the following materials: Hydrochloric acid (HCl) in water solutions at concentrations of 0.04% by weight or less (pH about 1.96 or greater); Nitric acid (HNO₃) in water solutions at concentrations of 0.15% by weight or less (pH about 1.62 or greater); Sulfuric acid (H₂SO₄) in water solutions at concentrations of 0.35% by weight or less (pH about 1.15 or greater); and Sodium hydroxide (NaOH) in water solutions at concentrations of 0.080% by weight or less (pH about 12.30 or less).

^dSamples should be analyzed as soon as possible after collection. The times listed are the maximum times that samples may be held before analysis and still be considered valid. Samples may be held for longer periods only if data on file shows that the specific types of samples under study are stable for the longer time, and has received a variance from the U.S. EPA Regional Administrator. Some samples may not be stable for the maximum time period given in the table. A permittee, or monitoring laboratory, is obligated to hold the sample for a shorter time if knowledge exists to show that this is necessary to maintain sample stability.

^eShould only be used in the presence of residual chlorine.

^fGuidance applies to samples to be analyzed by GC, LC, or GC/MS for specific compounds.

^gSample receiving no pH adjustment must be analyzed within seven days of sampling.

LABORATORY HOLDING TIMES

Date Sampled	Sample Designation	Sample Number	Type of Sample	Type of Analysis	Date Extracted	Holding Time to Extraction	Maximum Holding Time to Extraction	Date Analyzed	Holding Time to Analysis	Max. Holding Time to Analysis
11/24/86	MUS SPT 2'-4'	37586	Soil	SW5030/SW8020	--	--	--	12/2/86	8 Days	None
	MUS SPT 4'-6'	37587	"	"	--	--	--	12/3/86	9 Days	"
	MUS SPT 6'-8'	37588	"	"	--	--	--	"	"	"
	MUS SPT 12'-14' (Duplicate)	37589	"	"	--	--	--	12/2/86	8 Days	"
	"	37590	"	"	--	--	--	"	"	"
12/02/86	WFSM-3	37762	Water	E601 & SW5030/SW8020	--	--	--	12/10/86	8 Days	14 Days
	WFSM-4	37764	"	"	--	--	--	"	"	"
	WFSM-5	37766	"	"	--	--	--	"	"	"
	Travel Blank	37769	"	"	--	--	--	"	"	"
	WFSM-3	37763	Soil	SW5030/SW8010 & SW8020	--	--	--	12/9/86	7 Days	None
	WFSM-4	37765	"	"	--	--	--	"	"	"
	WFSM-5	37767	"	"	--	--	--	12/10/86	8 Days	"
	WFSM-6 (WFSM-5 Duplicate)	37768	"	"	--	--	--	"	"	"
12/01/86	WFSM-1	37748	Water	E601 & SW5030/SW8020	--	--	--	12/10/86	8 Days	14 Days
	WFSM-2	37749	"	"	--	--	--	"	"	"
	WFSM-7	37752	"	"	--	--	--	"	"	"
	Travel Blank	37753	"	"	--	--	--	"	"	"
	WFSM-1	37750	Soil	SW5030/SW8010 & SW8020	--	--	--	12/9/86	7 Days	None
	WFSM-2	37751	"	"	--	--	--	"	"	"
	"	"	"	"	--	--	--	"	"	"
12/03/86	ML-1	37799	Water	E601 & SW5030/SW8020	--	--	--	12/16/86	13 Days	14 Days
	ML-2	37800	"	"	--	--	--	12/15/86	12 Days	"
	ML-3	37801	"	"	--	--	--	"	"	"
	ML-4	37802	"	"	--	--	--	"	"	"
	ML-5	37803	"	"	--	--	--	"	"	"
	(ML-4 Duplicate)	"	"	"	--	--	--	"	"	"
	ML-1	37804	"	"	--	--	--	12/16/86	13 Days	14 Days
	ML-78	37805	"	"	--	--	--	"	"	"
	ML-88	37806	"	"	--	--	--	"	"	"
	ML-96	37807	"	"	--	--	--	"	"	"
	ML-90	37808	"	"	--	--	--	"	"	"
	(ML-96 Duplicate)	"	"	"	--	--	--	"	"	"
	ML-118	37809	"	"	--	--	--	12/16/86	13 Days	14 Days
	ML-150	37810	"	"	--	--	--	"	"	"
	Travel Blank	37811	"	"	--	--	--	"	"	"

LABORATORY HOLDING TIMES
(Continued)

Date Sampled	Sample Designation	Sample Number	Type of Sample	Type of Analysis	Date Extracted	Holding Time to Extraction	Maximum Holding Time to Extraction	Date Analyzed	Holding Time to Analysis	Max. Holding Time to Analysis
12/04/86	ML-3	37824	Water	E601 & SW5030/SW6020	--	--	--	12/17/86	12 Days	14 Days
	ML-12S	37826	"	"	--	--	--	"	"	"
	ML-140	37828	"	"	--	--	--	12/18/86	13 Days	"
	Bailer Blank	37829	"	"	--	--	--	"	"	"
	Travel Blank	37830	"	"	--	--	--	"	"	"
	MSM-10	37831	"	"	--	--	--	12/17/86	12 Days	"
12/05/86	ML-108	37825	Water	E601 & SW5030/SW6020	--	--	--	12/17/86	12 Days	14 Days
	ML-130	37827	"	"	--	--	--	"	"	"
12/01/86	MLSM-7	37752	Water	E625	12/8/86	5 Days	7 Days	12/9/86	1 Day	40 Days
12/03/86	ML-150	37810	Water	E625	12/9/86	6 Days	7 Days	12/12/86	3 Days	40 Days
	ML-1	37804	"	"	"	"	"	12/18/86	9 Days	"
	ML-78	37805	"	"	"	"	"	12/12/86	3 Days	"
	ML-98	37807	"	"	"	"	"	12/16/86	9 Days	"
	ML-90	37808	"	"	"	"	"	12/12/86	3 Days	"
	ML-88	37806	"	"	"	"	"	"	"	"
	Travel Blank	37811	"	"	"	"	"	"	"	"
	ML-118	37809	"	"	12/10/86	7 Days	"	12/18/86	8 Days	"
12/04/86	ML-3	37824	Water	E625	12/10/86	6 Days	7 Days	12/18/86	8 Days	40 Days
	ML-12S	37826	"	"	"	"	"	12/15/86	5 Days	"
	Bailer Blank	37829	"	"	"	"	"	"	"	"
	ML-140	37828	"	"	"	"	"	"	"	"
	Trip Blank	37830	"	"	"	"	"	"	"	"
12/05/86	ML-108	37825	Water	E625	12/10/86	6 Days	7 Days	12/18/86	8 Days	40 Days
	ML-130	37827	"	"	"	"	"	"	"	"
12/01/86	MSD-1	37750	Soil	SW3010/SW7420	--	--	--	12/17/86	16 Days	None
	MSD-2	37751	"	"	--	--	--	"	"	"
12/02/86	MSD-3	37763	Soil	SW3010/SW7420	--	--	--	12/17/86	15 Days	None
	MSD-4	37765	"	"	--	--	--	"	"	"
	MSD-5	37767	"	"	--	--	--	"	"	"
	MSD-6	37768	"	"	--	--	--	"	"	"
	(MSD-5 Duplicate)									
12/01/86	MSM-1	37748	Water	E239.2, E270.2, E206.2, E245.1	--	--	--	12/18/86	17 Days	28 Days
	MSM-2	37749	"	"	--	--	--	"	"	"
	MLSM-7	37752	"	"	--	--	--	"	"	"

LABORATORY HOLDING TIMES
(Continued)

Date Sampled	Sample Designation	Sample Number	Type of Sample	Type of Analysis	Date Extracted	Holding Time to Extraction	Maximum Holding Time to Extraction	Date Analyzed	Holding Time to Analysis	Max. Holding Time to Analysis
12/02/86	MP24-3 (Duplicate)	37762	Water	E239.2, E270.2, E206.2, E245.1	--	--	--	12/18/86	16 Days	28 Days
	MP24-4	37762-D	"	"	--	--	--	"	"	"
	MP24-5	37764	"	"	--	--	--	"	"	"
	MP24-5	37766	"	"	--	--	--	"	"	"
12/03/86	ML-118	37809	Water	E239.2, E270.2, E206.2, E245.1	--	--	--	12/18/86	15 Days	28 Days
	ML-1	37804	"	"	--	--	--	"	"	"
	ML-78	37805	"	"	--	--	--	"	"	"
	ML-88	37806	"	"	--	--	--	"	"	"
	ML-98	37807	"	"	--	--	--	"	"	"
	ML-90	37808	"	"	--	--	--	"	"	"
	(ML-98 Duplicate)	37810	"	"	--	--	--	"	"	"
12/04/86	ML-150	37810	"	"	--	--	--	"	"	"
	ML-3	37824	Water	E239.2, E270.2, E206.2, E245.1	--	--	--	12/18/86	13 Days	28 Days
	ML-128	37826	"	"	--	--	--	"	"	"
	ML-140	37828	"	"	--	--	--	"	"	"
12/05/86	Baller Blank	37829	"	"	--	--	--	"	"	"
	ML-108	37825	Water	E239.2, E270.2, E206.2, E245.1	--	--	--	12/18/86	13 Days	28 Days
12/03/86	ML-130	37827	"	"	--	--	--	"	"	"
	ML-1	37804	Water	E200.7	--	--	--	01/26/87	54 Days	6 Mos
	ML-78	37805	"	"	--	--	--	"	"	"
	ML-88	37806	"	"	--	--	--	"	"	"
	ML-98	37807	"	"	--	--	--	"	"	"
	ML-90	37808	"	"	--	--	--	"	"	"
	(ML-98 Duplicate)	37809	"	"	--	--	--	"	"	"
12/04/86	ML-118	37810	"	"	--	--	--	"	"	"
	ML-150	37810	"	"	--	--	--	"	"	"
	ML-3	37824	Water	E200.7	--	--	--	1/26/87	54 Days	6 Mos
	ML-128	37826	"	"	--	--	--	"	"	"
12/05/86	ML-140	37828	"	"	--	--	--	"	"	"
	Baller Blank	37829	"	"	--	--	--	"	"	"
12/05/86	ML-108	37825	Water	E200.7	--	--	--	1/26/87	54 Days	6 Mos
	ML-130	37827	"	"	--	--	--	"	"	"

LABORATORY HOLDING TIMES
(Continued)

Date Sampled	Sample Designation	Sample Number	Type of Sample	Type of Analysis	Date Extracted	Holding Time to Extraction	Maximum Holding Time to Extraction	Date Analyzed	Holding Time to Analysis	Max. Holding Time to Analysis
12/01/86	ML-8M-7	37752	Water	E200.7	--	--	--	1/26/87	54 Days	6 Mos
12/03/86	ML-1	37804	Water	E160.1	--	--	--	12/9/86	6 Days	7 Days
	ML-78	37805	"	"	--	--	--	"	"	"
	ML-88	37806	"	"	--	--	--	"	"	"
	ML-98	37807	"	"	--	--	--	"	"	"
	ML-90	37808	"	"	--	--	--	"	"	"
	(ML-98 Duplicate)									
	ML-118	37809	"	"	--	--	--	"	"	"
	ML-150	37810	"	"	--	--	--	"	"	"
12/04/86	ML-3	37824	Water	E160.1	--	--	--	12/9/86	4 Days	7 Days
	ML-128	37826	"	"	--	--	--	"	"	"
	ML-140	37828	"	"	--	--	--	"	"	"
	Bailer Blank	37829	"	"	--	--	--	"	"	"
12/05/86	ML-108	37825	Water	E160.1	--	--	--	12/9/86	4 Days	7 Days
	ML-130	37827	"	"	--	--	--	"	"	"
12/01/86	ML-8M-7	37752	Water	E160.1	--	--	--	12/9/86	6 Days	7 Days
12/03/86	ML-1	37799	Water	E418.1	--	--	--	12/11/86	8 Days	--
	ML-2	37800	"	"	--	--	--	"	"	--
	ML-3	37801	"	"	--	--	--	"	"	--
	ML-4	37802	"	"	--	--	--	"	"	--
	ML-5	37803	"	"	--	--	--	"	"	--
	ML-1	37804	"	"	--	--	--	"	"	--
	ML-78	37805	"	"	--	--	--	"	"	--
	ML-88	37806	"	"	--	--	--	"	"	--
	ML-98	37807	"	"	--	--	--	"	"	--
	ML-90	37808	"	"	--	--	--	"	"	--
	ML-118	37809	"	"	--	--	--	"	"	--
	ML-150	37810	"	"	--	--	--	"	"	--
	Travel Blank	37811	"	"	--	--	--	"	"	--
12/04/86	ML-3	37824	Water	E418.1	--	--	--	12/11/86	7 Days	--
12/05/86	ML-108	37825	"	"	--	--	--	"	6 Days	--
12/04/86	ML-128	37826	"	"	--	--	--	"	7 Days	--
12/05/86	ML-130	37827	"	"	--	--	--	"	6 Days	--
12/04/86	ML-140	37828	"	"	--	--	--	"	7 Days	--
	Bailer Blank	37829	"	"	--	--	--	"	"	--
	Travel Blank	37830	"	"	--	--	--	"	"	--

LABORATORY HOLDING TIMES
(Continued)

Date Sampled	Sample Designation	Sample Number	Type of Sample	Type of Analysis	Date Extracted	Holding Time to Extraction	Maximum Holding Time to Extraction	Date Analyzed	Holding Time to Analysis	Max. Holding Time to Analysis
12/01/86	WFSM-1	37748	Water	E418.1	-	-	-	12/16/86	15 Days	-
	WFSM-2	37749	"	"	-	-	-	"	"	-
	WFSM-7	37752	"	"	-	-	-	"	"	-
12/02/86	WFSM-3	37762	"	"	-	-	-	"	14 Days	-
	WFSM-4	37764	"	"	-	-	-	"	"	-
	WFSM-5	37766	"	"	-	-	-	"	"	-
12/01/86	WFSM-1	37750	Soil	E418.1	-	-	-	12/11/86	10 Days	-
	WFSM-2	37751	"	"	-	-	-	"	"	-
12/02/86	WFSM-3	37763	"	"	-	-	-	"	9 Days	-
	WFSM-4	37765	"	"	-	-	-	"	"	-
	WFSM-5	37767	"	"	-	-	-	"	"	-
	WFSM-6	37768	"	"	-	-	-	"	"	-

Appendix M
RECOMMENDED ABANDONMENT
PROCEDURES FOR MONITOR WELLS

RECOMMENDED WELL ABANDONMENT PROCEDURES

1. Remove protective vaults. This will require destruction of the concrete pad encasing the vault. Cut the protective vault off approximately 0.5 foot below land surface.
2. Circulate bentonite slurry as required to free casing and screen (if feasible).
3. When the casing and screen are free, withdraw them from the hole while maintaining the hole full of slurry. It may be necessary to continue circulating while withdrawing the casing and screen.
4. After withdrawing the casing and screen, fill the remaining hole with bentonite slurry and allow to stabilize for 24 hours.
5. Cut the well casing off approximately 0.5 foot below land surface.
6. Place a 1- to 2-foot thick cement plug atop the slurry, and fill any remaining depression with clean soil.
7. In situations where the casing cannot be withdrawn, make the pressure-tight connection to the surface casing and pressurize with bentonite slurry to 60 psi and maintain for 1 hour to allow the slurry to permeate the gravel pack in the annulus. Then place of 2-foot cement plug in the casing approximately 2 feet below ground level. Cut off casing and fill any remaining depression with clean soil.
8. In situations where the well casing is broken or bent, or an obstruction is found, the well must be cleaned out to the initially-constructed depth prior to sealing.