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CHARLES GEORGE LAND RECLAMATION TRUST LANDFILL ADMINISTRATIVE RECORD

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6.6.1

WORK PLAN

R E M II

**PERFORMANCE OF REMEDIAL RESPONSE
ACTIVITIES AT UNCONTROLLED
HAZARDOUS WASTE SITES**

U.S. EPA CONTRACT NO. 68-01-6939

**CAMP DRESSER & MCKEE INC.
PRIME CONTRACTOR**

COMPLETE

C.G.1

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DRAFT
WORK PLAN
FOR
CHARLES GEORGE LANDFILL SITE
TECHNICAL ASSISTANCE
VOLUME I

EPA Contract No.: 65-01-6939

Work Assignment No.: 83-1L16

Document No. 182-WP1-WP-AWFW-1

Prepared for: U.S. Environmental Protection Agency
Region I
Boston, MA

Prepared by: Camp Dresser & McKee Inc.

April 1985

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1345

REGION I
WORK PLAN APPROVAL FORM

DATE: April 3, 1985
FROM: Richard Leighton
Regional Site Project Officer
TO: Mr. Dennis Gagne
Regional Project Officer
WA NO: 83-1L16
SITE NAME: Charles George Landfill
ACTIVITY: Technical Assistance

Approval for entire work plan:
Budget \$ _____
LOE Hours _____
Estimated Completion Date _____

Partial approval:
Tasks Approved _____
Budget \$ _____
LOE Hours _____

Not approved:
COMMENTS: _____

By: _____ Date: _____
RSPD

Approved as submitted
Approved with changes
Approved pending funding
Partial approval
Not approved

Approved By: _____ Date: _____
D. Gagne
Regional Project Officer, USEPA

cc: W.M. Kaschak, P.O., USEPA
S. Hooper, Regional Coordinator, USEPA

Approved as submitted
Approved with changes
Approved pending funding
Partial approval
Not approved

Approved By: _____ Date: _____
U. Joiner
Contracting Officer, USEPA

A18-3/1

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1347

PERFORMANCE OF REMEDIAL RESPONSE
ACTIVITIES AT UNCONTROLLED HAZARDOUS
WASTE SITES (REM II)

U.S. EPA CONTRACT NO. 68-01-6939

WORK PLAN
FOR
CHARLES GEORGE LANDFILL SITE
TYNGSBOROUGH, MASSACHUSETTS

EPA Work Assignment No.: 83-1116
REM II Document No.: 182-WP-85-RPW-1

Prepared By: Craig E. Blake Date: 4/9/85
Craig E. Blake
Site Manager

Approved By: Richard J. Hugsto Date: 4/10/85
Richard J. Hugsto, M.D., P.E.
Region I Manager

Approved By: David F. Doyle Date: 4-11-85
David F. Doyle, P.E.
Technical Operations Manager

Approved By: Joseph G. Curcio Date: 4-11-85
Joseph G. Curcio, P.E.
Finance & Administration Manager

CDM

Environmental engineers, scientists,
business & management consultants

CAMP DRESSER & MCKEE INC.

One Center Plaza
Boston, Massachusetts 02108
617 742 2951

April 8, 1985

Mr. Dennis P. Gagne
U.S. Environmental Protection Agency
JFK Building
Boston, MA 02203

Mr. Richard Leighton
U.S. Environmental Protection Agency
JFK Building
Boston, MA 02203

EPA Contract: REM II 68-01-6939

Document No.: 182-MP1-MP-AMFW-1

Dear Sirs:

Camp Dresser & McKee Inc. (CDM) is pleased to submit this draft Work Plan for technical assistance during the pre-design to be performed at the Charles George Landfill Site in Tyngsborough, MA. The level of effort and cost estimate are based on data gaps associated with the RI/FS as completed by NUS Corporation. After review of the NUS material and after discussions with the NUS project staff, CDM feels that this proposed work is required during the pre-design phase in order to allow for a timely completion of the remedial design.

The level of effort and estimated cost exceed the values specified in the Work Assignment. This is due to the requirement for some additional field work, as presented in Task 3, and the revised ROD schedule, with signing now planned for mid May, 1985. Once you have approved the Work Plan, we will process any required amendments.

We await your comments on this draft Work Plan and look forward to continuing this Work Assignment. If you have any questions or require further information, please do not hesitate to contact me or Dr. Richard Hughto.

Very truly yours,

CAMP DRESSER & MCKEE INC.



Craig E. Blake
Site Manager

CEB/gfi

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134B

TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1	Introduction	1-1
2	Scope of Work	2-1

ATTACHMENTS

A	Schedule of Deliverables
B	Resumes
C	Conflict of Interest Declaration
D	Cost Information (Volume II)

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1349

SECTION 1: INTRODUCTION

Camp Dresser & McKee Inc. (CDM) has been tasked by the U.S. Environmental Protection Agency (EPA) Region I to provide technical assistance during the pre-design phase of the source-oriented remedial action at the Charles George Landfill site in Tyngsborough, Massachusetts. The work is to include review of the site background information and relevant project reports, attend project meeting with the RI/FS contractor, identify and fill any data gaps prior to design, provide a refined Remedial Action cost estimate and implementation schedule and initiate Work Plan development for the design phase of the project. These tasks are described in detail in Section 2.

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1351

SECTION 2: SCOPE OF WORK

The purpose of this section of the Work Plan is to present a logical set of tasks to meet the objectives of the Technical Assistance Work Plan. The tasks have been developed based on discussions with the EPA and a review of the existing site information developed by NUS Corporation during the source-oriented Remedial Investigation/Feasibility Study (RI/FS). The scope of work has been divided into five tasks as detailed below.

TASK 1 - Work Plan Preparation

Prepare a draft Work Plan for the activities to be performed under the subject work assignment. The draft work plan will be finalized by incorporating EPA comments.

TASK 2 - Background Information Review

A review of information relative to the site will be performed to familiarize the project staff with site conditions. The review will include the following documents and information:

1. Draft Source-Oriented Feasibility Study by NUS.
2. Leachate production computations by NUS.
3. Unvalidated leachate and landfill gas analytical results by NUS.
4. Air monitoring data as provided by Massachusetts DEQE.

This task will also include one trip to Pittsburgh to discuss the project with the NUS staff who worked on the RI/FS.

TASK 3 - Undertake Necessary Field Work

It is our understanding that the final remedial action as detailed in the forthcoming Record of Decision (ROD) will include a landfill cap, a leachate collection system and a landfill gas collection system. Based on discussions with EPA, NUS and the public who attended the March 28 Public Meeting, it would appear that a landfill gas odor control treatment system may also be incorporated into the site design.

Based on a review of the existing analytical data and the range of remedial actions proposed by NUS, it appears that three data gaps must be addressed prior to design. These include a characterization of the landfill gas (by composition and quantity), characterization of the leachate and identifying potential sources of suitable clay cover material.

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1352

The characterization of landfill gas is required in order to provide information necessary to size and cost proposed gas collection and treatment alternatives. The leachate collection system will require additional testing of the leachate to verify compatibility of pipe materials. The third data gap, sources of clay in the area, is created by the excessive amount of clay which may be required depending on which final cover material is selected for the remedial action. The estimated amount of clay required, if a clay cap is to be installed, may vary from 100,000 cubic yards (c.y.) for a partial cap to 200,000 c.y. for a full cap. A determination of sources of suitable clay will be necessary to refine the costs associated with implementing one of the clay cap alternatives.

Task 3 will be subdivided into subtasks as follows:

- o 3-A - Preparation of a site specific Project Operations Plan for gas and leachate collection and testing
- o 3-B - Gas sampling and testing program
- o 3-C - Leachate sampling and testing program
- o 3-D - Clay source identification

TASK 4 - Pre-Design Activities

This task includes the refinement of the recommended remedial action cost estimate based on gas and leachate analyses and the availability of construction materials (e.g., clay). Also included will be a conceptual layout of the recommended remedial action and the identification of administration requirements necessary to implement the action such as the taking of easements, obtaining the Federal, State and other permits required to discharge leachate back onto the site, initiate the obtaining of the permits to construct a temporary access to the site from Route 3 and obtaining any necessary air permits.

The final item within this task will be the development of a schedule for both the pre-design and the subsequent design activities. As a continuance of this item, CDM will also assist the EPA in preparing a Work Plan for the design. It should be noted that this subtask is only preliminary to the actual preparation of the Work Plan which will be completed after the ROD is finalized and a design Work Assignment has been issued.

Task 4 will include the following subtasks:

- o 4-A - Cost estimates of recommended action
- o 4-B - Conceptual layout
- o 4-C - Administrative requirements
- o 4-D - Develop schedule
- o 4-E - Preliminary Work Plan assistance

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1353

TASK 5 - Project Coordination

The design, as completed by CDM, will be coordinated and reviewed by the U.S. Army Corps of Engineers. It is therefore important given EPA's short implementation schedule, to coordinate the pre-design work with the Army Corps so as not to incur any delays.

There are several other agencies which will have to be coordinated with in order to implement the recommended remedial action. These are listed below:

1. Massachusetts Department of Environmental Quality Engineering - State Landfill Closure
2. Massachusetts Department of Public Works - Site Access from Route 3

The work to be completed under this task will include attending meetings, briefings and negotiation sessions as identified by the EPA RSPO as being necessary to implement the recommended remedial action. Since the number of meetings required cannot be specified at this time, the level of effort presented is an initial estimate which may have to be modified during the project execution.

Progress reports will be prepared monthly and progress meetings scheduled as necessary during the course of the project. In addition, the project scope of work and budget will require close monitoring due to the short implementation schedule coupled with the preliminary nature of the data used to develop this scope of work. The work accomplished and budget expended for such items outside of that specified in the Work Plan will be identified to EPA and the necessary Work Assignment amendments processed.

TASK 6 - Quality Assurance

The REM II Regional Quality Assurance Coordinator will review project deliverables and procedures to ensure compliance with applicable protocols and standards.

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ATTACHMENT A
SCHEDULE OF DELIVERABLES

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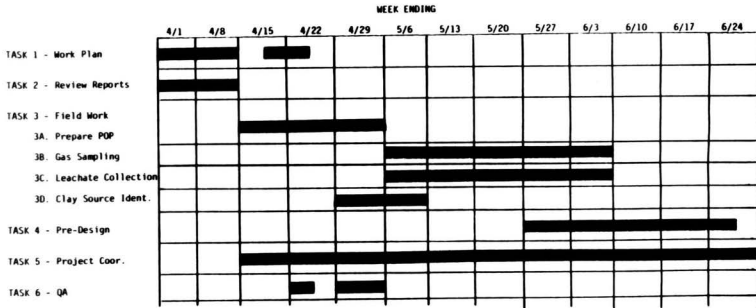
A schedule of deliverables has been developed as shown in the following table. The underlying assumption in all work in developing this schedule is that the ROD will be signed and a design Work Assignment will be issued by May 15, 1985.

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1355

SCHEDULE OF ACTIVITIES - CHARLES GEORGE LANDFILL SITE



1356

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SCHEDULE OF DELIVERABLES

DELIVERABLE	WORK ASSIGNMENT		QUALITY CONTROL PLAN (QCP)		QUALITY SURVEILLANCE		REM # APPROVAL				USEPA REVIEW				STATE REVIEW	OTHER REVIEW	
	AUTH.	DUE	ACTIVITY	DATE	ACTIVITY	DATE	RM	TOM	HBM	FAM	PO	CO	RPO	REPO			
TASK 1 - Work Plan	3/8/85	4/8/85					4/4	4/4	4/4		4/10	4/10	4/8	4/8			4/10
Task 2- No Deliverable																	
Task 3A- Proj. Oper. Plan	3/8/85	4/29/85					4/23		4/25			4/29	4/29				5/1
Tasks 3BA3C - Memo Report	3/8/85	6/3/85					5/28					6/3	6/3				6/5
Task 3D - Memo Report	3/8/85	5/3/85					4/30					5/3	5/3				5/8
Task 4 - Pre-Design Memo	3/8/85	6/21/85					6/14	6/18				6/21	6/21				6/25
Task 5 - No Deliverable																	

1357

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SCHEDULE B

RESUMES

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1359

RICHARD J. HUGHTO

Team Leader/Hazardous Waste Management
Camp Dresser & McKee Inc.

QUALIFICATIONS SUMMARY

Dr. Hughto, a CDM team leader, is experienced with analysis of hazardous waste disposal problems, as well as the development and application of water quality models to evaluate effects of industrial and residential developments, urban and rural runoff, and pollution abatement alternatives.

EXPERIENCE

Dr. Hughto has been responsible for numerous studies at CDM related to data collection and mathematical modeling for evaluation of water resources. He has participated in the analysis of impacts and effectiveness of remedial actions, including data management, groundwater and surface water modeling at numerous hazardous waste sites, and is a member of CDM's in-house Technical Review Committee for all hazardous waste work in the northeastern U.S. His most recent hazardous waste experience includes serving as project manager for a remedial investigation/feasibility study (RI/FS) for the McKin site in Gray, Maine. As part of CDM's Superfund Zone I contract with the U.S. Environmental Protection Agency for remedial action at hazardous waste sites, Dr. Hughto had responsibility for technical review of over 20 remedial action master plans (RAMPs) in EPA Regions I and II, and was project manager for the RI/FS at the Re-Solve Inc. site in Dartmouth, Massachusetts, and the feasibility study for the Lone Pine Landfill site in Freehold, New Jersey.

In addition, Dr. Hughto has been responsible for the development of sampling plans and groundwater contamination analyses at the following hazardous waste sites: Price Landfill, New Jersey; Mitchell Field and Olean, New York; Lincoln and Davis Liquid, Rhode Island; and Woburn, Massachusetts. He has been in charge of the technical review of Hazard Rank Scoring (HRS) and Phase I studies under the New York State Superfund program, and is the technical coordinator for document review of the New Jersey State Environmental Cleanup Responsibility Act (ECRA) for the State's Department of Environmental Protection.

EDUCATION

B.E. - Civil Engineering, Manhattan College, 1972
M.E. - Environmental Engineering, Manhattan College,
1973
Ph.D. - Environmental Engineering, Cornell University,
1979

REGISTRATION

Professional Engineer: Massachusetts, New York, New
Jersey, New Hampshire

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1960

CRAIG E. BLAKE

Site Manager
Camp Dresser & McKee Inc.

QUALIFICATIONS SUMMARY

Mr. Blake is a site manager at CDM with major responsibilities in preparation of engineering reports and designs for hazardous waste engineering projects.

EXPERIENCE

Mr. Blake has been involved with the Remedial Investigations and Feasibility Studies at various hazardous waste sites, including McKin Site, Gray, Maine; Re-Solve, North Dartmouth and Iron Horse, Billerica, Massachusetts; and Western Sand and Gravel, Burrillville, Rhode Island. Responsibilities included project coordination, development of scopes, alternatives analysis and conceptual design.

Mr. Blake has supervised the design of 23,000 ft of sewer laterals for Franklin, Massachusetts along with 8,600 ft of PVC water mains for Northborough, Massachusetts.

Previously, he served as project engineer on a water supply and transmission study for Danvers, Massachusetts and investigated the feasibility of the town purchasing water from the city of Beverly to supplement existing groundwater supplies. As a result of this study, Mr. Blake was then responsible for the design of a 12 and 16-inch diameter, 4,200-ft long transmission main.

Mr. Blake was the project engineer for a "201" wastewater facilities planning study for Achusnet, Massachusetts, which recommended the construction of approximately 84,000 feet of gravity sewers along with a 0.5-mgd pump station. He designed the first phase of the recommendations which includes 20,000 feet of sewer and a wastewater pump station. Other wastewater projects Mr. Blake has been involved with include the completion of a sewer system evaluation study of 63,000 feet of sewerage and assisting the design of 73,000 feet of lateral sewers for the town of Franklin, Massachusetts. He was also responsible for the design of 4,800 feet of gravity sewers for Hartford, Vermont and assisted in the design of 49,900 feet of sewerage for Northborough, Massachusetts.

In addition, he designed a sludge disposal landfill for the 1.8-mgd Ayer, Massachusetts activated sludge wastewater treatment facility. Mr. Blake also completed "201-funded" wastewater facilities planning studies for the towns of Oak Bluffs and Franklin, Massachusetts, and was responsible as project engineer for the design of 500 feet of 42-inch diameter, wooden pile supported, welded steel drain pipe in Newton, Massachusetts.

EDUCATION B.S. - Civil Engineering, University of Vermont, 1976

REGISTRATION Professional Engineering: Massachusetts

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ARTHUR L. QUAGLIERI, P.E.

Site Manager
Camp Dresser & McKee Inc.

QUALIFICATIONS SUMMARY

Mr. Quaglieri brings over 35 years of experience to CDM as an environmental and civil engineer. In an earlier assignment with CDM he prepared numerous reports and designs for water and wastewater projects. More recently as a member of other firms he has managed the analysis design and construction of major resource recovery plants and hazardous waste treatment and disposal facilities.

EXPERIENCE

Solid waste experience include management of design and construction for the following projects:

- o Design, construction and startup of resource recovery plants at Rochester, NY and Wilmington, DL.
- o Storage of RDF and feeding of RDF with powdered coal at RG&E Russell Station, Greece, NY.
- o Detailed proposals to design/build/operate resource recovery plants, including highly definitive conceptual designs, were prepared for communities such as New York, NY; Honolulu, Hawaii; Oyster Bay, NY; Haverhill/Lawrence, MA; Huntington, NY; Charleston, SC; Appleton, WI; San Francisco, CA.

Hazardous and chemical waste experience includes the following typical projects:

- o Ft. Wayne, IN - Remediation of a 25 acre hazardous waste site including design and construction of a 50 ft deep slurry trench wall around the site; design and construction of a hazardous waste landfill; capping of existing chemical waste landfills; site drainage.
- o Model City, NY - Design and construction of a hazardous waste landfill; modifications to leachate collection and treatment systems; planning for treatment and incineration of hazardous wastes.
- o Chicago, IL - Fast track design, construction and start-up of a world class hazardous waste incineration facility including tank farm; kiln; incinerator; packed tower scrubbing systems; electrostatic precipitators; clay lined lagoons; fire and water systems; boilers; lime storage and feeders; nitrogen system; lamella; drum storage building; decontamination, administrative and security facilities; site work and paving; wastewater disposal system and sewers.

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CHA 004

1361

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ARTHUR L. QUAGLIERI p. 2

- o Braintree, MA - Design and construction of a new chemical sorting room; storage facility for drums containing hazardous and flammable wastes; building modifications for chemical processing; wastewater treatment system; administrative facilities; planning for new hazardous waste incinerator.
- o Norfolk, VA - Detailed planning and proposal for decontamination of a chemical manufacturing plant.

Upon rejoining CDM, Mr. Quaglieri was assigned to the REM II program where he has participated in projects such as those at Perdido, AL; Bruin, PA, Del Norte, CA; Bylesville, OH; and Charleston, SC.

He currently serves as Site Manager for the design effort at the Nyanza Chemical Site, Ashland, MA and Assistant Site Manager for the design effort at the Charles George Landfill, Tyngsboro, MA.

EDUCATION B.S. - Civil Engineering, Northeastern University, 1949
 M.S. - Sanitary Engineering, Harvard University, 1950
 M.S. - Civil Engineering, Northeastern University, 1958

REGISTRATION Professional Engineer: California, Connecticut, Delaware, Florida, Hawaii, Illinois, Indiana, Maine, Massachusetts, New Hampshire, New Jersey, New York, Ohio, Rhode Island, South Carolina, Wisconsin

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SCHEDULE C

CONFLICT OF INTEREST DECLARATIONS

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1984

MEMORANDUM:

TO: D. F. Doyle
Manager of Technical Operations
Camp Dresser & McKee Inc.
One Center Plaza
Boston, MA 02108

FROM: R.J. Hughto

DATE: April 3, 1985

PROJECT: EPA Contract No.: 68-01-6939/

DOCUMENT NO: 182-WP1-AWFY-1

SUBJECT: Staff Conflict of Interest Declaration
Site:
Work Assignment No.: 83-1116

ACTION: Immediate Response

I have reviewed the above work assignment for the US EPA Contract 68-01-6939, Remedial Response Activities at Uncontrolled Hazardous Waste Sites. Based upon this review and my understanding of the legal requirements of this work, I certify that I have no known conflict of interest associated with this assignment based upon the known potential responsible parties or my past work experience with this site, if any. Also, I understand my professional obligation to inform any staff working at my direction on this assignment of the conflict of interest requirements and ensure that such staff have no such conflicts.

Richard J. Hughto
Signature

Richard J. Hughto

Name

cc: J. G. Curtis
Camp Dresser & McKee Inc.
7630 Little River Turnpike
Suite 500
Annandale, VA 22003

AC3-4/1
7/2/84

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1365

MEMORANDUM:

TO: D. F. Doyle
Manager of Technical Operations
Camp Dresser & McKee Inc.
One Center Plaza
Boston, MA 02108

FROM: C. E. Blake

DATE: April 4, 1985

PROJECT: EPA Contract No.: 68-01-6939/

DOCUMENT NO: 182-WP1-DM-AWFT-1

SUBJECT: Staff Conflict of Interest Declaration
Site:
Work Assignment No.: 83-1L16

ACTION: Immediate Response

I have reviewed the above work assignment for the US EPA Contract 68-01-6939, Remedial Response Activities at Uncontrolled Hazardous Waste Sites. Based upon this review and my understanding of the legal requirements of this work, I certify that I have no known conflict of interest associated with this assignment based upon the known potential responsible parties or my past work experience with this site, if any. Also, I understand my professional obligation to inform any staff working at my direction on this assignment of the conflict of interest requirements and ensure that such staff have no such conflicts.

Craig Blake
Signature

Craig Blake
Name

cc: J. G. Curtis
Camp Dresser & McKee Inc.
7630 Little River Turnpike
Suite 500
Annandale, VA 22003

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MEMORANDUM:

TO: D. F. Doyle
Manager of Technical Operations
Camp Dresser & McKee Inc.
One Center Plaza
Boston, MA 02108

FROM: A.L. Quaglieri

DATE: April 4, 1985

PROJECT: EPA Contract No.: 68-01-6939/

DOCUMENT NO: 182-WP1-DM-AWPU-1

SUBJECT: Staff Conflict of Interest Declaration
Site:
Work Assignment No.: 83-1L16

ACTION: Immediate Response

I have reviewed the above work assignment for the US EPA Contract 68-01-6939, Remedial Response Activities at Uncontrolled Hazardous Waste Sites. Based upon this review and my understanding of the legal requirements of this work, I certify that I have no known conflict of interest associated with this assignment based upon the known potential responsible parties or my past work experience with this site, if any. Also, I understand my professional obligation to inform any staff working at my direction on this assignment of the conflict of interest requirements and ensure that such staff have no such conflicts.

Arthur L. Quaglieri
Signature

Arthur L. Quaglieri

Name

cc: J. G. Curtis
Camp Dresser & McKee Inc.
7630 Little River Turnpike
Suite 500
Annandale, VA 22003

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7/2/84