

FILE COPY

NEW YORK STATE SUPERFUND CONTRACT

PROJECT WORK PLAN FOR REMEDIAL DESIGN

United Plating Site
Building Demolition

Site No. 447018

Work Assignment No. D002676-10.2

DATE: October 1997



Prepared for:

**New York State
Department of
Environmental Conservation**

50 Wolf Road, Albany, New York 12233
John Cahill, *Commissioner*

Division of Environmental Remediation
Michael J. O'Toole, Jr., P.E., *Director*

By:

Lawler, Matusky & Skelly Engineers LLP
One Blue Hill Plaza • Pearl River, New York 10965

In association with:

Clough, Harbour & Associates LLP
Engineers, Surveyors, Planners & Landscape Architects
111 Winners Circle • Albany, New York

ao revised
10/27/97
JL

**PROJECT WORK PLAN FOR
REMEDIAL DESIGN
NEW YORK STATE SUPERFUND STANDBY CONTRACT**

**UNITED PLATING BUILDING DEMOLITION
SCHENECTADY, NEW YORK**

SITE I.D. NO. 4-47-018

Work Assignment No. D002676-10.2

Prepared For:

**New York State Department of Environmental Conservation
Division of Environmental Remediation**

October 1997

Prepared By:

**LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Environmental Science & Engineering Consultants
One Blue Hill Plaza
Pearl River, New York 10965**

And

**CLOUGH, HARBOUR & ASSOCIATES LLP
Engineers, Surveyors, Planners & Landscape Architects
III Winners Circle
Albany, New York 12205**

*Need to take couple of
"yard" background
samples @ homes
NW & NE
0-2" Surficial*

TABLE OF CONTENTS

1.0 INTRODUCTION..... 1

1.1 Background 1

2.0 TASK 8 - DESIGN SERVICES FOR O.U.#1..... 2

2.1 Subtask 8.1-Scoping and Remedial Design Work Plan 3

2.2 Subtask 8.2-Preliminary Design 3

2.3 Subtask 8.3-Intermediate Design..... 4

2.4 Subtask 8.4-Final Design 5

3.0 ANCILLARY PLANS..... 5

3.1 Subtask 8.5 - QC/QA Plan 6

3.2 Subtask 8.6 - Site Health and Safety Plan 6

3.3 Subtask 8.7 - Community Health and Safety Plan..... 7

3.4 Subtask 8.8 - Contingency Plan..... 7

4.0 SUBTASK 8.9 - PRE-AWARD SERVICES..... 7

5.0 SUBTASK 8.10-TASK MANAGEMENT..... 8

6.0 PROJECT STAFFING PLAN..... 8

7.0 MBE/WBE UTILIZATION PLAN..... 10

8.0 PROJECT SCHEDULE..... 10

9.0 BUDGET..... 10

PROJECT ORGANIZATION CHART

PROJECT SCHEDULE

BUDGET TABLES

APPENDICE A - Subcontractor Quotations and Other Cost Back-up

no revised

1.0 INTRODUCTION

Lawler, Matusky & Skelly Engineers LLP (LMS) was given the work assignment of the United Plating (UP) site (No. 4-47-018 on the Registry) under terms of the State Superfund Standby Contract. The objective of the work assignment was to conduct a remedial investigation/feasibility study (RI/FS) of the site to ascertain the aerial and vertical extent of contamination and to develop a sufficient data bank of information to adequately scope a remedial alternative. A work plan was prepared and approved by the New York State Department of Environmental Conservation (NYSDEC) in March 1995 and the field work completed in early 1996. A Focus Feasibility Study (FFS) was prepared and transmitted to NYSDEC in April 1996. The FFS evaluated alternatives for remediating the contents of the building and remediating the building itself. Subsequently, NYSDEC prepared a Proposed Remedial Action Plan (PRAP) for Operable Unit No. 1 (O.U. #1) for the United Plating site which consists of removal and disposal of the building contents and demolition and disposal of the building. This amendment adds Task 8 to the work plan, which will be conducted by LMS along with our team member, Clough, Harbour & Associates LLP (CHA).

1.1 Background

The site is an abandoned metal plating facility located at the corner of Seneca Street and Foster Avenue in the City of Schenectady, New York. The site is approximately 1.7 acres in size, one-third of which is covered by the building footprint.

The United Plating site operated as a metal plating corporation from 1945 until 1990. NYSDEC sued the company in May 1990 because of numerous violations of the Environmental Conservation Law. The plant was closed in August 1990.

The initial RI work conducted by LMS concluded that the building surfaces and debris within the building are contaminated with hazardous levels of cadmium, chromium, and lead dust; the shallow soils on the site are contaminated with heavy metals and benzo(a)pyrene above cleanup standards; the subsurface soils beneath the building are contaminated with potentially hazardous levels of trichloroethylene (TCE), cadmium, and chromium; and the groundwater beneath the building is contaminated with TCE, 1,1,1-trichloroethane (1,1,1-TCA), chromium, and cyanide above groundwater

standards. NYSDEC has defined two operable units (OU#1 and OU#2) at the site. OU#1 deals with the issues associated with the building.

2.0 TASK 8 - DESIGN SERVICES FOR O.U.#1

In accordance with NYSDEC protocol, the design of the closure of Operational Unit #1 (O.U.#1) will be completed in three phases: preliminary design, intermediate design, and final design. The specifics associated with each phase are discussed below in Sections 2.2 through 2.4.

In order to complete each phase of work, CHA will assemble a design team which will consist of environmental engineers/scientists and structural engineers. The environmental design team members will focus on the development of a design which will ensure that the building and its contents have been decontaminated prior to the removal and proper disposal of the closure related wastes. The goal of the decontamination program is to minimize the amount of material which will require disposal as RCRA hazardous waste. In order to accomplish this objective, CHA will thoroughly review existing site characterization and inventory data in order to develop a basis for the scope of the decontamination program. The information presented in the existing documentation will also be field verified.

During the preliminary design phase, a structural engineer will accompany environmental staff, and inspect each room or area of O.U. #1 to determine its structural integrity. The information derived from this structural evaluation will be used in concert with the environmental field verification data to evaluate the safety and feasibility of accessing a given area for the purpose of equipment removal and decontamination versus in place decontamination. The information gathered during the structural inspection of the site buildings will also be utilized to identify where temporary shoring is required for safety purposes, and if exterior access to a given area may be obtained by removing an exterior non-load bearing wall. The structural data which is gathered will also be utilized to determine the best sequence for and method of demolition.

LMS/CHA will discuss the project with the City of Schenectady to ensure that all adjacent roadways will remain open during the remedial work, and to ensure that the health and safety of the neighboring citizens is protected. Considerations discussed with the City will be incorporated into the design of the remedial program.

2.1 Subtask 8.1-Scoping and Remedial Design Work Plan

Under this subtask LMS/CHA prepared the work plan amendment. The work plan included a detailed description of all tasks to conduct the remedial design (RD), a detailed budget for each task and subtask which provided the level of effort in terms of staff-hours, and a breakdown of the expenses associated with the tasks and subtasks. The budget was prepared using the cost rates and factors in the base Standby Contract. The 2.11 series of schedules was used to prepare the budget estimate.

As part of the work plan, LMS/CHA prepared a project schedule which highlights all work activities, deliverable dates, and other important project milestones. After receipt of comments from NYSDEC on the draft work plan, LMS/CHA incorporated the comments and prepared the final work plan.

2.2 Subtask 8.2-Preliminary Design

CHA will prepare complete plans and specifications for use in competitively bidding the remedial construction in conformance with New York State and applicable Federal laws, rules, regulations, and guidelines. Major design decisions and recommendations will be discussed with NYSDEC as they are developed and open communication will be maintained throughout the design. A pre-demolition asbestos survey will be conducted prior to design in order to obtain the necessary variances for demolition.

The pre-demolition asbestos survey will consist of an asbestos inspection conducted by a state certified asbestos inspector. During the inspection, the inspector will identify potential asbestos-containing material (ACM) and collect, following established protocol, samples of each material for analysis. During the inspection, the approximate quantity, condition, and location of the materials will be noted on drawings provided to CHA. The samples will be submitted to a state certified laboratory (Envirotech Research, Inc.) for polarized light microscopy (PLM) analysis. Twenty samples have been budgeted for PLM analysis. For any non-organically bound (NOB) ACM identified, analyses will be confirmed by a Transmission Electron Microscope (TEM). Five NOB samples have been budgeted for TEM analysis. Once results are received, a pre-demolition asbestos survey report will be generated summarizing field and analytical activities and abatement options. Applicable state variances that may be necessary in order for demolition to occur will be submitted to the state to ensure that the project proceeds.

The conceptual remedial design outlined in the Proposed Remedial Action Plan (PRAP) will be followed. This generally includes:

- HEPA vacuuming of the interior of the building and the debris inside the building which is contaminated.
- Manual removal of the debris inside the building that can safely be removed.
- Construction of an exterior debris decontamination facility to be used to decontaminate debris and equipment which is removed from the building.
- The proper management and disposal of decontamination wash waters and collected dusts and miscellaneous solid/ hazardous wastes.
- Demolition of the building.
- Testing, sorting, transportation, and disposal of the debris from inside the building and the building materials.

The preliminary design will include general layout drawings, a list of the technical specifications that will be incorporated in the final contract documents, and a design report that will include supporting data, documentation, and any design calculations.

The preliminary design documents will be submitted to the NYSDEC for review and approval. In keeping with the expedited schedule established by the NYSDEC, it is anticipated that the NYSDEC review period will not exceed seven working days.

2.3 Subtask 8.3-Intermediate Design

After receipt of comments from the NYSDEC regarding the preliminary design submittal, CHA will proceed with the 95% submission of the remedial design which will be then submitted to NYSDEC for review and approval. This submittal will be within four weeks after receiving the NYSDEC comments on the preliminary design.

This submittal will include a design report, draft plans and specifications, and bid documents. In keeping with the expedited schedule established by the NYSDEC, it is anticipated that the NYSDEC review period will not exceed seven working days.

24 Subtask 8.4-Final Design

Upon receipt of the NYSDEC comments on the intermediate (95%) design submittal, CHA will complete the final design and submit it to NYSDEC for final approval within three weeks. This submittal will include five copies of the final plans, specifications, supporting data/documentation, and design calculations in a design report.

A construction cost estimate based on the final design quantities will be prepared and submitted with the quantity take-off sheets and the basis for the unit and lump sum costs used in the estimate. The cost estimate will be itemized in the same manner as the bid form; unit prices will be used as much as possible with lump sum prices used only when no alternative exists.

CHA will submit a projected schedule for the remedial construction work based upon the final design.

Seven days after approval of the final design by the NYSDEC, LMS/CHA will submit 75 sets of the plans and specifications for bidding, plus reproducible mylars.

Finally, in keeping with the expedited schedule established by the NYSDEC, it is anticipated that the NYSDEC review period for the final design will not exceed seven working days.

3.0 ANCILLARY PLANS

LMS/CHA will prepare four plans associated with the project manual and bid documents. These plans include: a QC/QA plan, a health and safety plan, a community health and safety plan and a contingency plan. The contents of each of these plans is discussed below.

3.1 Subtask 8.5 - QC/QA Plan

LMS/CHA will prepare a Construction Quality Control/Quality Assurance Plan (CQCQAP) that will be used during the construction of the remedial design. The plan will include testing that the Contractor will be required to conduct during the construction and will include testing that LMS/CHA as the resident engineer (RE) will be required to take as part of quality assurance/quality control (QA/QC) for the project.

The CQCQAP will also define the level of experience and training needed by the Contractor to perform the construction. The plan will also state the frequency of inspections, field testing and equipment requirements, and laboratory QA/QC requirements. The QA/QC objectives and the procedures and lines of authority to meet those objectives will also be stated.

3.2 Subtask 8.6 - Site Health and Safety Plan

LMS/CHA will prepare a Site Health and Safety Plan (HASP) that will provide guidelines to protect both the RE and NYSDEC personnel during construction. The plan will basically be a revision to the plan prepared by LMS for the RI/FS, updated with the data collected during the investigation. The plan will stipulate air monitoring requirements, task-specific levels of protection, action levels to upgrade or downgrade levels of protection, emergency procedures, hazards at the site, medical and training requirements, and site control measures. The responsibility of various personnel and lines of authority will also be provided.

3.3 Subtask 8.7 - Community Health and Safety Plan

LMS/CHA will prepare a Community Health and Safety Plan (CHASP) that will be designed to protect local residents and on-site workers at the UP site from exposure to contaminants released during construction. The plan will stipulate air monitoring requirements at the perimeter of the site (currently it is envisioned that at a minimum a MIE RAM-1 particulate monitor will be used) and will be based on the New York State Department of Health (NYSDOH) guidelines provided in the Community Air Monitoring Plan and the NYSDEC's 1980 TAGM #4031 for fugitive dust suppression and particulate monitoring. Both upwind and downwind readings will be taken with the frequency stipulated in the plan. The plan will provide engineering controls, such as wetting of the building and

*DOH
Suggest
worded*

The plan developed with guidance from NYSDOH and in accordance with

don't have and

ie you come up w/ plan, we critique

3.1 Subtask 8.5 - QC/QA Plan

LMS/CHA will prepare a Construction Quality Control/Quality Assurance Plan (CQCQAP) that will be used during the construction of the remedial design. The plan will include testing that the Contractor will be required to conduct during the construction and will include testing that LMS/CHA as the resident engineer (RE) will be required to take as part of quality assurance/quality control (QA/QC) for the project.

The CQCQAP will also define the level of experience and training needed by the Contractor to perform the construction. The plan will also state the frequency of inspections, field testing and equipment requirements, and laboratory QA/QC requirements. The QA/QC objectives and the procedures and lines of authority to meet those objectives will also be stated.

3.2 Subtask 8.6 - Site Health and Safety Plan

LMS/CHA will prepare a Site Health and Safety Plan (HASP) that will provide guidelines to protect both the RE and NYSDEC personnel during construction. The plan will basically be a revision to the plan prepared by LMS for the RI/FS, updated with the data collected during the investigation. The plan will stipulate air monitoring requirements, task-specific levels of protection, action levels to upgrade or downgrade levels of protection, emergency procedures, hazards at the site, medical and training requirements, and site control measures. The responsibility of various personnel and lines of authority will also be provided.

The HASP will include the ambient air monitoring to be conducted during construction. Ambient air monitoring will be conducted three times (before, during, and after construction) to assess actual levels of contaminants in the air. High volume air samplers will be set up at four locations (three downwind and one upwind) for each sampling event. Samples will be collected on particulate filters for a period of eight hours (to allow comparison to the OSHA PEL); also during construction this would provide a worse case scenario; i.e., at night construction activities have ceased and levels will be much lower. The samples will be analyzed for target analyte list (TAL) metals and total suspended solids (TSS). A field and trip blank will be collected during each sampling round for QA/QC purposes. A perimeter dust air monitoring report will be prepared and transmitted to NYSDEC at the conclusion of the construction.

As revised

3.3 Subtask 8.7 - Community Health and Safety Plan

LMS/CHA will prepare a Community Health and Safety Plan (CHASP) that will be designed to protect local residents and on-site workers at the UP site from exposure to contaminants released during construction. The plan will stipulate air monitoring requirements at the perimeter of the site. (Currently it is envisioned that at a minimum, a MIE RAM-1 particulate monitor will be used). This plan will be developed with guidance from the New York State Department of Health (NYSDOH) and the NYSDEC and in accordance with TAGM #4031 for fugitive dust suppression and particulate monitoring. Both upwind and downwind readings will be taken with the frequency stipulated in the plan. The plan will provide engineering controls, such as wetting of the building and debris, that will be used to reduce the levels of dust released. The plan will also include action levels under which construction activities will be shut down until the levels subside.

3.4 Subtask 8.8 - Contingency Plan

LMS/CHA will prepare a draft Contingency Plan which will reflect the procedures necessary in the event there is a deviation from the normal remedial operations or performance at the site.

4.0 SUBTASK 8.9 - PRE-AWARD SERVICES

LMS/CHA will coordinate with NYSDEC the schedule and agenda for a pre-bid meeting to be conducted at the site by LMS/CHA with prospective bidders. The purpose of the meeting is to emphasize important aspects of the project, tour the project site and answer questions raised by the prospective bidders. During the pre-bid phase, LMS/CHA will prepare any necessary addenda to the plans and specifications for timely distribution to prospective bidders.

LMS/CHA will conduct a review of all bids received and identify the lowest responsive and responsible bidder. LMS/CHA will also identify bid irregularities and notify NYSDEC of any informalities and of any unbalanced or non-responsive bids. This submittal will be made within five working days after the bid opening; if there is a protest, further evaluation would be prepared and submitted as a supplement to the first submission.

no revised

Need to document what levels did/didn't leave site.

debris, that will be used to reduce the levels of dust released. The plan will also include action levels under which construction activities will be shut down until the levels subside.

The CHASP will include the ambient air monitoring to be conducted during construction.

Ambient air monitoring will be conducted three times (before, during, and after construction) to assess actual levels of contaminants in the air. High volume air samplers will be set up at four locations (three downwind and one upwind) for each sampling event. Samples will be collected on particulate filters for a period of eight hours (to allow comparison to the OSHA PEL); also during construction this would provide a worse case scenario; i.e., at night construction activities have ceased and levels will be much lower. The samples will be analyzed for target analyte list (TAL) metals and total suspended solids (TSS). A field and trip blank will be collected during each sampling round for QA/QC purposes. A perimeter dust air monitoring report will be prepared and transmitted to NYSDEC at the conclusion of the construction.

change to CHASP

*12 per 4031...
What about OSHA
time monitoring*

*need to do sampling
before*

3.4 Subtask 8.8 - Contingency Plan

LMS/CHA will prepare a draft Contingency Plan which will reflect the procedures necessary in the event there is a deviation from the normal remedial operations or performance at the site.

4.0 SUBTASK 8.9 - PRE-AWARD SERVICES

LMS/CHA will coordinate with NYSDEC the schedule and agenda for a pre-bid meeting to be conducted at the site by LMS/CHA with prospective bidders. The purpose of the meeting is to emphasize important aspects of the project, tour the project site and answer questions raised by the prospective bidders. During the pre-bid phase, LMS/CHA will prepare any necessary addenda to the plans and specifications for timely distribution to prospective bidders.

LMS/CHA will conduct a review of all bids received and identify the lowest responsive and responsible bidder. LMS/CHA will also identify bid irregularities and notify NYSDEC of any informalities and of any unbalanced or non-responsive bids. This submittal will be made within five working days after the bid opening; if there is a protest, further evaluation would be prepared and submitted as a supplement to the first submission.

LMS/CHA will also review all plans required by the contract documents that are submitted by each Contractor with the respective bids. Within four weeks after the bid opening, LMS/CHA will submit to NYSDEC a letter report summarizing the plans and contract documents submitted by the apparent low bidder.

5.0 SUBTASK 8.10-TASK MANAGEMENT

The management and administration of the work plan as well as the overall project management as it relates to scope, fee, and schedule is included under this task. The CHA project manager and contract manager will review the general status and progress of the DEC work assignment to ensure the requirements of the work plan are being met. This task includes the labor expended for monthly progress reports and invoicing including cost control reports. The management efforts will be supplemented by administrative staff as necessary and as indicated on the budget tables enclosed.

6.0 PROJECT STAFFING PLAN

The Standby Contract for Remedial Design Services is between Lawler, Matusky & Skelly Engineers LLP (LMS) and the New York State Department of Environmental Conservation (NYSDEC), with Clough, Harbour & Associates LLP (CHA) a subconsultant to LMS. Overall project management will be provided by LMS, with CHA preparing the design plans and specifications for the United Plating site interim remedial measure.

Other subcontractors will be utilized as necessary to complete certain tasks; the major subcontractors proposed for our project team consist of:

- ◆ Envirotech Research, Inc. for laboratory analyses for asbestos, TAL metals, and TSS.

Other minor subcontractors will be brought on board as required. The proposed project organization is shown on the attached figure.

Mr. Edward A. Maikish, P.E., Director of LMS' Site Investigation Section (NSPE Grade 7), will be the program administrator for this work assignment. Mr. Maikish will be directly responsible to NYSDEC for the conduct of the program and will provide overall coordination with CHA.

Mr. Patrick J. Lawler, P.E., Director of LMS' Design Group (NSPE Grade 9), will be partner-in-charge for this work assignment. As partner-in-charge, he will be responsible for the technical review of all design and construction documents.

Ms. Karen A. Wright (NSPE Grade 5) will serve as LMS' Project Manager and in that capacity will provide administrative management of the project and will be responsible for tracking and management of the project budget. Ms Wright will prepare the project's Site Health and Safety Plan and the Community Health and Safety Plan.

Dr. Bradley Williams (NSPE Grade 5) will be the Project Quality Assurance Officer (QAO). In this capacity, Dr. Williams will supervise the preparation of the Construction Quality Control/Quality Assurance Plan (CQCQAP).

Mr. George B. Sorensen (NSPE Grade 3) will prepare the Contingency Plan for the project.

Ms. Margaret Rudzinski is an Associate Principal and Senior Environmental Project Manager at CHA (NSPE Grade 6). She will function as the program administrator for this work assignment. Ms. Rudzinski will provide overall coordination with LMS and will provide task management, QA/QC, and cost control management.

Mr. Mike Quinn, P.E. (NSPE Grade 5) will serve as overall project manager responsible for coordination of both structural and environmental design tasks.

Mr. Keith Ziobron, P.E. (NSPE Grade 4) will be responsible for executing the environmental design at all stages. As you can see from the organization chart, he will be supported by environmental engineering staff for design issues as they relate to cleaning of the debris prior to demolition, asbestos issues, disposal of C&D material, and construction related issues.

Mr. Mike Kenneally, P.E. (NSPE Grade 5) will be responsible for executing the structural design at all stages. Mr. Kenneally will be supported by structural engineering staff for temporary shoring and demolition issues.

7.0 **MBE/WBE UTILIZATION PLAN**

The printing of the final plans and specifications will be done by Marsden Reproductions, Inc., an MBE. Their total cost is \$1,414.00. The LMS/CHA team will attempt to fulfill the MBE/WBE goals through the procurement of supplies. The laboratory assigned to the project was the only standby laboratory that could do asbestos analyses; however, it is not a MBE/WBE certified laboratory. It is possible that the LMS/CHA team will need the services of MJ Engineering, a MBE, for structural engineering work on this project in order to meet the project's schedule. MJ has not been included on the organization chart or budget tables for this project as of yet. Their labor charges would not be supplementing LMS/CHA's; they would be in place of LMS/CHA's labor hours. This will be discussed with the NYSDEC prior to being executed. In addition, the team hopes to involve MBE/WBE businesses during the execution of the construction contract and/or for waste disposal firms.

8.0 **PROJECT SCHEDULE**

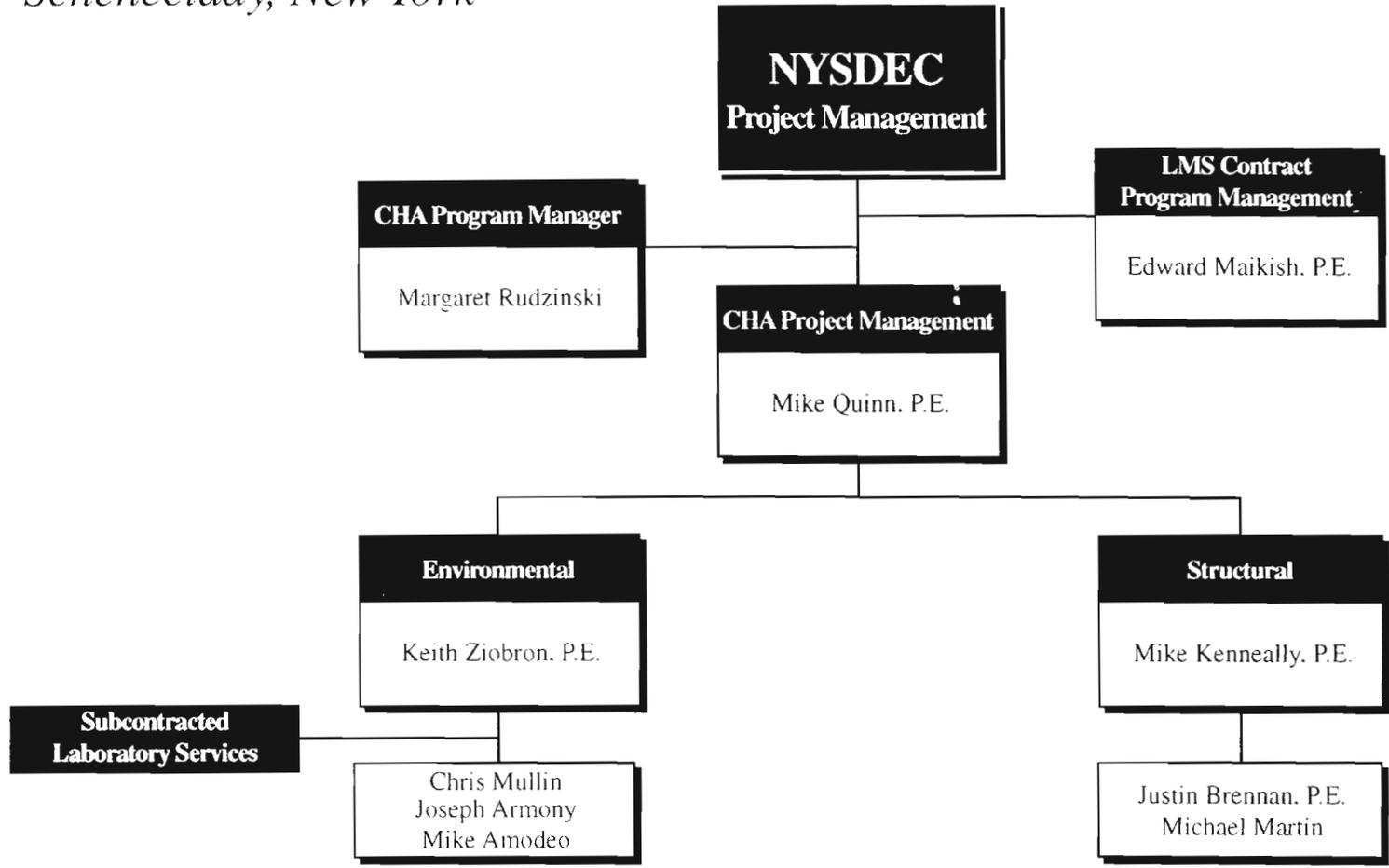
LMS/CHA will be available immediately to begin work on this project . A project schedule is provided as part of this work plan.

9.0 **BUDGET**

Appropriate budget tables have been attached to this work plan.

PROJECT ORGANIZATION CHART

United Plating Operable Unit #1
Remedial Design - Site # 447018
Schenectady, New York



PROJECT SCHEDULE

UNITED PLATING OPERABLE UNIT NO. 1
SCHENECTADY, NEW YORK

ID	Task Name	Duration	October			November			December			January			February											
			12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1			
1	Contract Award	0d	◆ 10/15																							
2	Prelim. Design	21d	[Progress Bar]																							
3	Submit Preliminary Design	0d	◆ 11/13																							
4	DEC Review & Comment	6d	[Progress Bar]																							
5	Intermediate Design	12d	[Progress Bar]																							
6	Submit Intermediate Design	0d	◆ 12/9																							
7	DEC Review & Comment	6d	[Progress Bar]																							
8	Final Design	12d	[Progress Bar]																							
9	Submit Final Design	0d	◆ 1/2																							
10	Draft Const. QC/QA Plan	32d	[Progress Bar]																							
11	Draft Site H&S Plan	32d	[Progress Bar]																							
12	Draft Community H&S Plan	32d	[Progress Bar]																							
13	Draft Contingency Plan	32d	[Progress Bar]																							
14	Subit Draft Plans	0d	◆ 11/29																							
15	DEC Review and Comment	12d	[Progress Bar]																							
16	Prep of Final Plans	13d	[Progress Bar]																							
17	Submit Final Plans	0d	◆ 1/2																							
18	Final DEC Review & Approval	6d	[Progress Bar]																							
19	Project Bidding	10d	[Progress Bar]																							
20	Pre-bid Meeting	0d	◆ 1/19																							
21	Bid Opening	0d	◆ 1/27																							
22	Construction Bid Review	15d	[Progress Bar]																							
23	Award of Contract	0d	◆ 2/18																							

BUDGET TABLES

SCHEDULE 2.11 TABLES

SCHEDULE 2.11 (a)
SUMMARY OF WORK ASSIGNMENT PRICE
Work Assignment Number D002676-10.2

LINE ITEM	AMOUNT (\$)	
1. Direct Salary Costs (Schedules 2.10 (a) and 2.11 (b))	195,368	
2. Indirect Costs (Schedule (2.10 (g))	296,666	
3. Direct Non-Salary Costs (Schedules 2.10 (d,e,f) and 2.11 (c,d)	72,564	
Subcontract Costs:		
Name of Subcontractor	Services to be Performed	
Subcontract Price		
1. MJ Engineering	Survey	11,768
2. Clough Harbor & Assoc. LLP	Design Services	90,065
4. Total Cost-Plus-Fixed Fee Subcontracts		101,833
Unit Price Subcontracts (Schedule 2.10 (f) and 2.11 (f))		
Name of Subcontractor	Services to be Performed	Subcontract Price
1. ADT	Drilling, soil sampling and well installation	74,769
2. Pollution Solutions (WBE)	Test Pits	5,566
3. E3I (MBE)	Laboratory analysis	187,134
4. Data Validation Services (WBE)	Data Validation	21,991
5. Empire Soils	Geotechnical Services	1,889
6. Alpina International, Inc. (MBE)	Reproduction	1,752
7. Gomez Electrical Contractor (MBE)	Electrical Work	1,340
8. Brady Fence Company (WBE)	Fence Repair/Installation	1,425
9. Pollution Solutions (WBE)	Scrap Metal Removal	1,797
10. Liverpool Blueprint (WBE)	Blueprint reproduction	90
11. Albany Ladder	Lift rental	300
12. Williams Scottsman Trailer	Trailer Rental	1,408
13. NYNEX	Telephone Installation	269
14. Ameri-Can Rentals	Portable Toilet Rental	450
15. Inchcape Testing Services (Aquatec)	Laboratory services	26,515
16. Repeat Business Systems (MBE)	Office Equipment Rental	1,500
17. ERD Environmental	GPR	2,350
5. Total Unit Price Subcontracts		330,545
6. Subcontract Management Fee (Schedule 2.11[f])		15,520
7. Total Subcontract Costs (lines 4 + 5)		432,379
8. Fixed Fee (Schedule 2.10 (h))		49,203
9. Total Work Assignment Price (lines 1 + 2 + 3 + 6 + 7)		1,061,700

SCHEDULE 2.11(b)
LABOR COST SUMMARY
 Work Assignment Number D002676-10.2

LABOR CATEGORY											TOTAL HOURS	
	AVERAGE	IX	VIII	VII	VI	V	IV	III	II	I		WP
	SALARY RATE (1995)	\$54.38	\$41.81	\$36.68	\$34.36	\$30.65	\$23.97	\$21.47	\$20.88	\$15.83		\$14.09
	SALARY RATE (1996)	\$57.38	\$44.11	\$38.70	\$36.25	\$32.34	\$25.29	\$22.65	\$22.02	\$16.70		\$14.87
SALARY RATE (1997)	\$60.53	\$46.53	\$40.83	\$38.24	\$34.12	\$26.68	\$23.89	\$23.24	\$17.62	\$15.68		
Task 1	8.0	0.0	94.0	12.0	140.0	168.0	0.0	84.0	5.0	73.0	584.0	
Task 2A	14.0	0.0	104.0	24.0	181.0	275.0	464.0	352.0	366.0	65.0	1,845.0	
Task 2B	21.0	6.0	66.0	8.0	163.0	389.0	598.0	161.0	399.0	112.0	1,923.0	
Task 3	22.0	0.0	123.0	0.0	164.0	357.0	0.0	79.0	0.0	112.0	857.0	
Task 4	3.0	2.0	40.0	0.0	85.0	200.0	48.0	84.0	11.0	68.0	541.0	
Task 5	3.0	0.0	40.0	0.0	72.0	240.0	20.0	101.0	27.0	90.0	593.0	
Task 6	3.0	0.0	24.0	0.0	58.0	48.0	24.0	24.0	8.0	50.0	239.0	
Task 7	6.0	0.0	60.0	12.0	106.0	200.0	364.0	136.0	312.0	52.0	1,248.0	
Task 8	3.0	0.0	34.0	13.0	89.0	42.0	28.0	71.0	21.0	71.0	372.0	
Subtotal 1995 Hours:	65.0	6.0	387.0	44.0	648.0	1,189.0	1,062.0	676.0	770.0	362.0		
Subtotal 1996 Hours:	15.0	2.0	164.0	12.0	321.0	688.0	456.0	345.0	358.0	260.0		
Subtotal 1997 Hours:	3.0	0.0	34.0	13.0	89.0	42.0	28.0	71.0	21.0	71.0		
TOTAL HOURS:	83.0	8.0	585.0	69.0	1,058.0	1,919.0	1,546.0	1,092.0	1,149.0	693.0	8,202.0	
Total Direct Labor Costs	4,576.99	339.08	21,930.18	2,443.96	33,279.02	47,020.41	33,798.46	23,361.82	18,537.72	10,080.06	195,367.70	

INDIRECT LABOR COSTS: 296,665.84

SUBTOTAL: 492,033.54

FIXED FEE: 49,203.37

TOTAL BUDGETED LABOR COSTS: 541,236.91

ENGINEER/CONTRACT No.: Lawler, Matusky & Skelly Engineers
 PROJECT NAME: United Plating RI/FS
 WORK ASSIGNMENT No.: 02676-10.2

DATE PREPARED: 17 Oct 97

**SCHEDULE 2.11(b-1)
 DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED**

NSPE LABOR CLASSIFICATION											TOTAL No. OF DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED
	IX	VIII	VII	VI	V	IV	III	II	I	WP	
Task 1	0	0	4	0	8	0	0	8	0	0	20
Task 2a	3	0	24	0	59	0	0	39	14	27	166
Task 2b	4	0	25	0	31	33	0	28	25	10	156
Task 3	2	0	15	0	32	0	0	31	0	16	96
Task 4	1	0	8	0	17	0	0	16	11	4	57
Task 5	1	0	8	0	24	0	0	11	11	8	63
Task 6	1	0	4	0	10	0	0	8	8	2	33
Task 7	2	0	10	0	10	8	0	10	10	10	60
Task 8	1	0	6	0	14	0	0	5	6	3	35
TOTAL HOURS:	15	0	104	0	205	41	0	156	85	80	651

Contract/Project administrative hours would include but not necessarily be limited to the following activities:

1. Work Plan Development
 - Conflict of Interest Check
 - Develop of budget schedules and supporting documentation
2. Review work assignment (WA) progress
 - Conduct progress reviews
 - Prepare monthly project report
 - Update WA progress schedule
 - Prepare monthly M/WBE Utilization Report
3. Review work assignment costs
 - Prepare monthly cost control report
 - Cost control reviews

4. CAP Preparation
 - Oversee and prepare monthly CAP
 - Respond to payment issues/disallowances
 - NSPE list updates
 - Equipment inventory
5. Manage subcontracts
6. Implement and manage program management and staffing plans
7. Conduct Health and Safety Reviews
8. Word processing and graphic artists
9. Report editing

Contract/Project administration hours would NOT include activities such as:

1. QA/Qc reviews
2. Technical oversight by management
3. Develop subcontracts
4. Work plan development
5. Review of deliverables

SCHEDULE 2.11(c) - DIRECT NON-SALARY COSTS
Work Assignment Number D002676-10.2

ITEM	MAXIMUM REIMBURSEMENT RATE (\$)	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST (\$)
A. Material Costs:				
Telephone	1.00	(at cost)	5,670.0	5,670.00
Electric Usage (trailer/office)	1.00	(at cost)	840.0	840.00
Reproduction	0.07	(per page)	56,070.0	3,924.90
General PC usage	1.50	(per hr)	1,460.0	2,190.00
Auto CADD	15.00	(per hr)	130.0	1,950.00
Fax	1.00	(per page)	3,259.0	3,259.00
Overnight shipping	1.00	(at cost)	7,175.0	7,175.00
Information purchases	1.00	(at cost)	570.0	570.00
Photography	1.00	(at cost)	991.0	991.00
Lg/ print repro (24X36)	1.35	(per page)	60.0	81.00
Photo/print enlarge	144.00	(at cost)	2.0	288.00
Sample storage	2.00	(per 6-mo)	100.0	200.00
Disposable Field Items:				
Nylon Rope	0.20	(per ft)	1,820.0	364.00
½" ID tubing	0.30	(per ft)	520.0	156.00
Decon Chemicals	1.00	(at cost)	95.0	95.00
Decon D.I. Water	0.12	(per gal.)	230.0	27.60
¾" PVC	1.50	(per ft)	150.0	225.00
¾" 10 Slot screen	2.00	(per ft)	10.0	20.00
2" Protective case	15.00	(each)	9.0	135.00
¾" Slipfit couples	2.00	(each)	9.0	18.00
¾" End caps	3.00	(each)	9.0	27.00
Drill bits	1.00	(at cost)	40.0	40.00
Brushes	0.87	(per pkg)	5.0	4.35
Sample bottles	42.95	(per case)	9.0	386.55
Ice for samples	1.00	(at cost)	200.0	200.00
Stakes/Flagging	1.00	(at cost)	80.0	80.00
Misc *	1.00	(at cost)	175.0	175.00
Disposable Bailer	11.50	(ea)	47.0	540.50
Aerial photos/enlarge	480.00	(at cost)	1.0	480.00
Aerial photos	1.00	(at cost)	200.0	200.00
Miscellaneous *	1.00	(at cost)	130.0	130.00
			SUBTOTAL:	30,442.90

SCHEDULE 2.11(c) - DIRECT NON-SALARY COSTS
Work Assignment Number D002676-10.2

ITEM	MAXIMUM REIMBURSEMENT RATE (\$)	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST (\$)
B. Travel Costs:				
Truck/van rental	31.34	(per day)	95.0	2,977.30
Truck/van mileage	0.133	(per mile)	8,430.0	1,121.19
Personal mileage	0.23	(per mile)	11,530.0	2,651.90
Per diem	85.00	(per day)	144.0	12,240.00
Per diem	96.00	(per day)	60.0	5,760.00
Tolls	1.00	(at cost)	722.0	722.00
Parking	1.00	(at cost)	30.0	30.00
			SUBTOTAL:	25,502.39
C. Equipment Costs:				
Personal Protective Equipment:				
Level D	12.00	(per day)	157.0	1,884.00
Level C	53.00	(per day)	38.0	2,014.00
2" Submersible Pump (110 V)	15.00	(per day)	24.0	360.00
Peristaltic pump - Masterflex	3.00	(per day)	16.0	48.00
Centrifugal - Teel	3.00	(per day)	31.0	93.00
Generators - Honda (6,500 watt)	51.00	(per day)	18.0	918.00
Generators - Daystrom (5,000 watt)	37.00	(per day)	10.0	370.00
High pressure washer - Landa (110 volt)	92.00	(per day)	12.0	1,104.00
PID - HNu (HW-101) @	0.00	(per day)	86.0	0.00
FID - Foxboro (OVA-128) @	0.00	(per day)	86.0	0.00
Combustible gas indicator - Exotech (40-OFH)	0.00	(per day)	85.0	0.00
Combustible gas indicator - Exotech (60-OFH)	38.00	(per day)	1.0	38.00
Radiation monitor - MSA	21.00	(per day)	7.0	147.00
Acker soil sampler - portable kit	37.00	(per day)	4.0	148.00
Static well level - Slope Ind. Co. (51453) @	0.00	(per day)	73.0	0.00
Static well level - Solinst 101	11.00	(per day)	10.0	110.00
Teflon bailer - Timco (White-1.05)	12.00	(per day)	20.0	240.00
Teflon bailer - Timco (White-1.66)	18.00	(per day)	18.0	324.00
S.S. slug - Jorgenson (1.5 X 43)	4.00	(per day)	8.0	32.00
Magnetometer - Geometrics (G-856AX)	40.00	(per day)	2.0	80.00

SCHEDULE 2.11(c) - DIRECT NON-SALARY COSTS
Work Assignment Number D002676-10.2

ITEM	MAXIMUM REIMBURSEMENT RATE (\$)	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST (\$)
C. Equipment Costs (continued):				
Hermit data logger - in-situ	57.00	(per day)	8.0	456.00
Conductivity w/temp. meter - YEI @	0.00	(per day)	52.0	0.00
pH meter - CP (pH pen)	4.00	(per day)	57.0	228.00
Turbidity meter - Monitek @	0.00	(per day)	52.0	0.00
RAM-1-MIE	110.00	(per day)	21.0	2,310.00
Probe unit - Concord	374.00	(per day)	11.0	4,114.00
Soil/Water sample charge	20.00	(each)	64.0	1,280.00
Mobilization	0.13	(per mile)	300.0	39.90
Mobilization	46.75	(per hr)	6.0	280.50
			SUBTOTAL:	<u>16,618.40</u>
			TOTAL DIRECT NON-SALARY COSTS:	<u><u>72,563.69</u></u>

SCHEDULE 2.11(e)

COST-PLUS FIXED FEE SUBCONTRACTS

Work Assignment Number D002676-10.2

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
1. MJ Engineering	Survey	\$11,768.02

A. Direct Salary Costs

PROFESSIONAL RESPONSIBILITY LEVEL	AVERAGE LABOR CLASS.	REIMB. RATE (\$/hr)	ESTIMATED NUMBER OF HOURS	TOTAL ESTIMATED DIRECT SALARY COST (\$)
Task 2A:				
Principal	VI	28.62	26	\$744.12
Sr. Technician	III	18.29	70	\$1,280.30
Instrument Person	II	16.03	60	\$961.80
Staff Eng./Sci./Geo.	I	13.03	76	\$990.28
			Subtotal Task 2A:	\$3,976.50
Task 7:				
Section Manager	VI	30.05	2	\$60.10
Survey Party Chief	III	16.83	16	\$269.28
CADD Technician	III	16.83	12	\$201.96
Instrument Person	I	13.68	16	\$218.88
			Subtotal Task 7:	\$750.22
TOTAL DIRECT SALARY COSTS:				\$4,726.72

FOOTNOTES:

- 1 - These rates will be held firm until December 31, 1997.
- 2 - Reimbursement will be limited to the lesser of either the individuals actual hourly rate or the maximum rate for each labor category.
- 3 - Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed.
- 4 - Only those labor classifications indicated with an asterisk will be entitled to overtime.
- 5 - Reimbursement for technical time of principals, owners and officers will be limited to the maximum maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the Federal GS-18 rate, whichever is lower.
- 6 - The maximum rates in each labor category can be modified only by mutual written agreement and approved by both the Department and the Comptroller.
- 7 - This footnote applies to Schedules for years 4 thru 7 only. If the U.S. cost-of-living index increases at a rate greater than 6% compounded annually, the maximum salary rates will be subject to renegotiation for future years of the contract.

SCHEDULE 2.11(e)

COST-PLUS FIXED FEE SUBCONTRACTS

Work Assignment Number D002676-10.2

B. Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 122% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulations, whichever is lower.

Amount budgeted for indirect costs Task 2A:	\$4,851.33
Amount budgeted for indirect costs Task 7:	\$915.27
Subtotal amount budgeted for indirect costs:	\$5,766.60

C. Maximum Reimbursement Rates for Direct Non-Salary Costs

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
Task 7:			
Travel			
Mileage (to/from site)	\$0.31 /mi	50	\$15.50
	TOTAL DIRECT NON-SALARY COSTS:		\$15.50

D. Fixed Fee

The fixed fee is:

Task 2A:	\$1,059.34
Task 7:	\$199.86
See Schedule 2.10(h) for how the fixed fee should be claimed:	\$1,259.20

TOTAL:	\$11,768.02
---------------	--------------------

SCHEDULE 2.11(e)

COST-PLUS FIXED FEE SUBCONTRACTS

Work Assignment Number D002676-10.2

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
2. Clough Harbor & Assoc. LLP	Design Services	\$90,065.37

A. Direct Salary Costs

PROFESSIONAL RESPONSIBILITY LEVEL	LABOR CLASS.	AVERAGE REIMB. RATE (\$/hr)	ESTIMATED NUMBER OF HOURS	TOTAL ESTIMATED DIRECT SALARY COST (\$)
	IX	57.08	4	\$228.32
	VIII	48.54	12	\$582.48
	VII	39.26	5	\$196.30
	VI	31.74	70	\$2,221.80
	V	28.98	102	\$2,955.96
	IV	25.11	0	\$0.00
	III	22.49	644	\$14,483.56
	II	19.41	180	\$3,493.80
	I	16.57	436	\$7,224.52
	WP	11.90	82	\$975.80
TOTAL DIRECT NON-SALARY COSTS:				\$32,362.54

FOOTNOTES:

- These rates will be held firm until March 31, 1998.
- Reimbursement will be limited to the lesser of either the individuals actual hourly rate or the maximum rate for each labor category.
- Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed.
- Only those labor classifications indicated with an asterisk will be entitled to overtime.
- Reimbursement for technical time of principals, owners and officers will be limited to the maximum maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the Federal GS-18 rate, whichever is lower.
- The maximum rates in each labor category can be modified only by mutual written agreement and approved by both the Department and the Comptroller.
- This footnote applies to Schedules for years 4 thru 7 only. If the U.S. cost-of-living index increases at a rate greater than 6% compounded annually, the maximum salary rates will be subject to renegotiation for future years of the contract.

SCHEDULE 2.11(e)

COST-PLUS FIXED FEE SUBCONTRACTS

Work Assignment Number D002676-10.2

B. Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 131% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulations, whichever is lower.

Amount budgeted for indirect costs: \$42,394.93

C. Maximum Reimbursement Rates for Direct Non-Salary Costs

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
TASK 8		Task 8 Subtotal	\$6,337.00
		TOTAL DIRECT NON-SALARY COSTS:	\$6,337.00

D. Fixed Fee

The fixed fee is:

See Schedule 2.10(h) for how the fixed fee should be claimed: \$8,970.90

TOTAL: \$90,065.37

SCHEDULE 2.11 (e)-1a
SUMMARY OF WORK ASSIGNMENT PRICE
 Work Assignment Number D002676-10.2

LINE ITEM	AMOUNT (\$)
1. Direct Salary Costs (Schedules 2.10 (a) and 2.11 (b))	32,362.54
2. Indirect Costs (Schedule (2.10 (g))	42,394.94
3. Direct Non-Salary Costs (Schedules 2.10 (d,e,f) and 2.11 (c,d)	3,923.01
<i>Subconsultant Costs:</i>	
<u>Name of Subconsultant</u>	<u>Services to be Performed</u>
	<u>Subcontract Price</u>
4. Total Cost-Plus-Fixed Fee Subcontracts	0.00
5. Total Unit Price Subcontracts	2,414.00
6. Subcontract Management Fee (Schedule 2.11[f])	0.00
7. Total Subcontract Costs (lines 4 + 5 + 6)	2,414.00
8. Fixed Fee (Schedule 2.10 (h))	8,970.90
9. Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8)	90,065.39

SCHEDULE 2.11(e) - 1b
LABOR COST SUMMARY
 Work Assignment #D002676-10.2

LABOR CATEGORY AVERAGE SALARY RATE (1997)	IX	VIII	VII	VI	V	IV	III	II	I	WP	
	\$57.08	\$48.54	\$39.28	\$31.74	\$28.98	\$25.11	\$22.48	\$19.41	\$16.87	\$11.90	
Task 8	\$228.32	\$582.48	\$196.30	\$2,221.80	\$2,955.96	\$0.00	\$14,483.56	\$3,493.80	\$7,224.52	\$975.80	\$32,362.54
TOTAL HOURS:	\$228.32	\$582.48	\$196.30	\$2,221.80	\$2,955.96	\$0.00	\$14,483.56	\$3,493.80	\$7,224.52	\$975.80	\$32,362.54

* Note: Rates are quoted in the year they end.

INDIRECT LABOR COSTS: \$42,394.93
SUBTOTAL: \$74,757.47
FIXED FEE: \$8,970.90
TOTAL BUDGETED LABOR COSTS: \$83,728.36

SCHEDULE 2.11(e) - 1c DIRECT NON-SALARY COSTS
Work Assignment Number D002676-10.2

ITEM	MAXIMUM REIMBURSEMENT RATE (\$)	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST (\$)
A. Material Costs:				
Telephone	1.00	(at cost)	200.0	200.00
Reproduction	0.05	(per page)	5,220.0	261.00
Auto CADD	8.50	(per hr)	220.0	1,870.00
Fax	1.00	(at cost)	110.0	110.00
Mailing/shipping	1.00	(at cost)	400.0	400.00
Lg/ print repro (30x42)	1.10	(per page)	180.0	198.00
Consumable equipment	1.00	(at cost)	100.0	100.00
Photographs	1.00	(at cost)	75.0	75.00
			SUBTOTAL:	3,214.00
B. Travel Costs:				
Personal mileage	0.30	(per mile)	630.0	189.00
Per diem	104.00	(per day)	0.0	0.00
			SUBTOTAL:	189.01
C. Equipment Costs:				
Personal Protective Equipment:				
Level D	12.00	(per day)	8.0	96.00
Level C	53.00	(per day)	8.0	424.00
			SUBTOTAL:	520.00
			TOTAL DIRECT NON-SALARY COSTS:	3,923.01

SCHEDULE 2.11(e) - 1f

UNIT PRICE SUBCONTRACTS
 Work Assignment Number D002676-10.2

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MGMT. FEE
Envirotech Research	Building Material Analyses	\$1,000.00	\$0.00

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
SUBTASK 8.2 Preliminary Design, 8.4 Final Design, 8.9 Pre-Award Services, 8.10 Task Manage.			
Laboratory Analysis			
Asbestos PLM	\$30.00	20	\$600.00
Asbestos TEM	\$80.00	5	\$400.00
TOTAL SUBTASK 8.2			\$1,000.00
Subtotal Subcontract Price:			\$1,000.00
Subcontract Management Fee:			\$0.00
NOTE: A subcontract management fee of 5% will be allowed on subcontracts over \$10,000 subject to the terms specified in the management fee protocol.			

SCHEDULE 2.11(e) - 1f

UNIT PRICE SUBCONTRACTS
 Work Assignment Number D002676-10.2

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MGMT. FEE
Marsden Company	Printing	\$1,414.00	\$0.00

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
SUBTASK 8.2 Preliminary Design, 8.4 Final Design, 8.9 Pre-Award Services, 8.10 Task Manage.			
Page copying	\$0.0425	32000	\$1,360.00
24 x 36 drawing copies	\$0.30	180	\$54.00
		TOTAL SUBTASK 8.2	<u>\$1,414.00</u>
		Subtotal Subcontract Price:	<u><u>\$1,414.00</u></u>
		Subcontract Management Fee:	\$0.00
NOTE: A subcontract management fee of 5% will be allowed on subcontracts over \$10,000 subject to the terms specified in the management fee protocol.			

ENGINEER: Clough, Harbour & Associates LLP
 CONTRACT No.: D002676
 PROJECT NAME: United Plating
 WORK ASSIGNMENT No.: D002676-10.2
 TASK No./NAME: Summary
 COMPLETE: 0%

SCHEDULE 2.11(e) - 1g

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

PAGE: 1 of 3
 DATE PREPARED: 15 Oct 97
 BILLING PERIOD:
 INVOICE No.: 6808
 CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE *	C TOTAL DISALLOWED TO DATE	D TOTAL COSTS INCURRED TO DATE (A + B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A + B + E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G - F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	32,362.54	32,362.54	32,362.54	0.00
2. Indirect Salary Costs (1.31)	0.00	0.00	0.00	0.00	42,394.94	42,394.94	42,394.94	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	74,757.48	74,757.48	74,757.48	0.00
4. Travel:	0.00	0.00	0.00	0.00	189.00	189.00	189.00	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	3,214.00	3,214.00	4,628.00	1,414.00
Equipment Costs:	0.00	0.00	0.00	0.00	520.00	520.00	520.00	0.00
6. Subtotal Direct Non-Salary Costs:	0.00	0.00	0.00	0.00	3,923.00	3,923.00	5,337.00	1,414.00
7. Subs:								
Subconsultants:								
Subcontractors:								
Accredited Labs								
Enviotech Research	0.00	0.00	0.00	0.00	1,000.00	1,000.00	1,000.00	0.00
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	79,680.48	79,680.48	81,094.48	1,414.00
9. Fees:								
Fixed Fee: (12%)	0.00	0.00	0.00	0.00	8,970.90	8,970.90	8,970.90	0.00
Management Fee: (5%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	88,651.38	88,651.38	90,065.38	1,414.00

Project Manager (Engineer): _____
 Margaret Rudzinski

Date: _____

* Note: 'Paid to Date' includes outstanding bills & retainage

ENGINEER: Clough, Harbour & Associates LLP
 CONTRACT No.: D002676
 PROJECT NAME: United Plating
 WORK ASSIGNMENT No: D002676-10.2
 TASK No./NAME: Task 8
 COMPLETE: 0%

SCHEDULE 2.11(e) - 1g
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

PAGE: 2 OF 3
 DATE PREPARED: 15 Oct 97
 BILLING PERIOD:
 INVOICE No.: 6808
 CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE *	C TOTAL DISALLOWED TO DATE	D TOTAL COSTS INCURRED TO DATE (A+B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A+B+E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	32,362.54	32,362.54	32,362.54	0.00
2. Indirect Salary Costs (1.31)	0.00	0.00	0.00	0.00	42,394.94	42,394.94	42,394.94	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	74,757.48	74,757.48	74,757.48	0.00
4. Travel:	0.00	0.00	0.00	0.00	189.00	189.00	189.00	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	3,214.00	3,214.00	3,214.00	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	520.00	520.00	520.00	0.00
6. Subtotal Direct Non-Salary Costs:	0.00	0.00	0.00	0.00	3,923.00	3,923.00	3,923.00	0.00
7. Subs:								
Subconsultants:								
Subcontractors:								
Envirotech Research	0.00	0.00	0.00	0.00	1,000.00	1,000.00	1,000.00	0.00
Marsden Company	0.00	0.00	0.00	0.00	1,414.00	1,414.00	1,414.00	0.00
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	81,094.48	81,094.48	81,094.48	0.00
9. Fees:								
Fixed Fee: (12%)	0.00	0.00	0.00	0.00	8,970.90	8,970.90	8,970.90	0.00
Management Fee: (5%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	90,065.38	90,065.38	90,065.38	0.00

Project Manager (Engineer): Margaret Rudzinski

Date: _____

* Note: 'Paid to Date' includes outstanding bills & retainage

ENGINEER: Clough, Harbour & Associates LLP
 CONTRACT No.: D002676
 PROJECT NAME: United Plating
 WORK ASSIGN. No.: D002676-10.2

SCHEDULE 2.11(e) - 1h
MONTHLY COST CONTROL REPORT
SUMMARY OF LABOR HOURS

DATE PREPARED: 15 Oct 97
 BILLING PERIOD: ###
 INVOICE No.: 6808

Number of Direct Labor Hours Expended to Date/Estimated Number of Direct Labor Hours to Completion

LABOR CLASSIFICATION	IX 57.08		VIII 48.54		VII 39.26		VI 31.74		V 28.98		IV 25.11		III 22.49		II 19.41		I 18.57		WP 11.90		TOTAL NO. OF DIRECT LABOR HRS.	
	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.
Task 8	0.0	4.0	0.0	12.0	0.0	5.0	0.0	70.0	0.0	102.0	0.0	0.0	0.0	644.0	0.0	180.0	0.0	436.0	0.0	82.0	0.0	1,535.0
TOTAL HOURS:	0.0	4.0	0.0	12.0	0.0	5.0	0.0	70.0	0.0	102.0	0.0	0.0	0.0	644.0	0.0	180.0	0.0	436.0	0.0	82.0	0.0	1,535.0

NOTES:

ENGINEER: Lawler, Matusky & Skelly Engineers LLP
 NTRA : D00
 PROJECT NAME: United Plating RI/FS
 WORK ASSIGNMENT No.: D002676-10
 TASK No./NAME: Summary
 COMPLETE: 63%

SCHEDULE 2.11(g)
 MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

PAGE: 1 of 9
 DATE: Oct 9
 BILLING PERIOD:
 INVOICE No.:
 CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE	C TOTAL DISSALLOWED TO DATE	D TOTAL COSTS PAID TO DATE (A+B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A + B + E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	149,328.43	(634.64)	149,328.43	54,121.23	203,449.66	195,367.70	(8,081.96)
2. Indirect Salary Costs (1.5185):	0.00	226,683.96	(958.39)	226,683.96	82,192.68	308,876.64	296,665.84	(12,210.80)
3. Subtotal Direct Salary and Indirect Costs:	0.00	376,012.39	(1,593.03)	376,012.39	136,313.90	512,326.29	492,033.54	(20,292.76)
4. Travel:	0.00	13,833.67	(1,345.00)	13,833.67	7,976.76	21,810.43	25,502.39	3,691.96
5. Other Non-Salary Costs:								
Material Costs:	0.00	17,974.04	0.00	17,974.04	10,880.37	28,854.41	30,442.90	1,588.49
Equipment Costs:	0.00	9,377.98	0.00	9,377.98	3,611.00	12,988.98	16,618.40	3,629.42
6. Subtotal Direct Non-Salary Costs:	0.00	41,185.69	(1,345.00)	41,185.69	22,468.13	63,653.82	72,563.69	8,909.87
7. Subs:								
Subconsultants:								
MJ Engineering	0.00	23,236.53	0.00	23,236.53	1,880.85	25,117.38	11,768.02	(13,349.36)
CHA	0.00	0.00	0.00	0.00	90,065.38	90,065.38	90,065.38	0.00
Subcontractors:								
E3I (MBE)	0.00	129,393.50	0.00	129,393.50	0.00	129,393.50	187,134.00	57,740.50
Data Validation Services (WBE)	0.00	13,278.50	0.00	13,278.50	4,716.00	17,994.50	21,990.75	3,996.25
Albany Ladder	0.00	283.55	0.00	283.55	0.00	283.55	300.00	16.45
Pollution Solutions (Debris) (W	0.00	7,385.29	0.00	7,385.29	0.00	7,385.29	1,797.00	(5,588.29)
ADT	0.00	28,558.50	0.00	28,558.50	48,430.00	76,988.50	74,769.00	(2,219.50)
Pollution Solutions (Test Pits) (0.00	3,844.00	0.00	3,844.00	0.00	3,844.00	5,566.00	1,722.00
Empire Soils	0.00	1,246.00	0.00	1,246.00	0.00	1,246.00	1,889.00	643.00
Gomez Electric (MBE)	0.00	1,340.00	0.00	1,340.00	0.00	1,340.00	1,340.00	0.00
Brady Fence Co. (WBE)	0.00	1,524.75	0.00	1,524.75	0.00	1,524.75	1,425.00	(99.75)
Williams Scotsman	0.00	1,933.91	0.00	1,933.91	0.00	1,933.91	1,408.00	(525.91)
NYNEX	0.00	0.00	0.00	0.00	0.00	0.00	269.44	269.44
American-Can Rentals	0.00	438.51	0.00	438.51	0.00	438.51	450.00	11.49
Inchcape Testing (Aquatec)	0.00	3,841.52	(2,524.56)	3,841.52	23,515.00	27,356.52	26,515.00	(841.52)
Repeat Business Systems	0.00	1,340.62	0.00	1,340.62	0.00	1,340.62	1,500.00	159.38
ERD Environmental	0.00	0.00	0.00	0.00	2,350.00	2,350.00	2,350.00	0.00
Liverpool Blueprint	0.00	0.00	0.00	0.00	0.00	0.00	89.60	89.60
Alpina International, Inc. (MBE)	0.00	0.00	0.00	0.00	1,549.20	1,549.20	1,752.34	203.14
Precision	0.00	990.00	0.00	990.00	0.00	990.00	0.00	(990.00)
8. Total Work Assignment Costs:	0.00	635,833.26	(5,462.59)	635,833.26	331,288.46	967,121.72	996,975.76	29,854.03
9. Fees:								
Fixed Fee:	0.00	35,162.51	0.00	35,162.51	6,784.99	41,947.50	49,203.37	(0.00)
Management Fee:	0.00	0.00	0.00	0.00	11,537.40	11,537.40	15,520.46	0.00
10. Total Work Assignment Price:	0.00	670,995.77	(5,462.59)	670,995.77	349,610.85	1,020,606.62	1,061,699.59	29,854.03

Project Manager (Engineer): _____

Date: _____

ENGINEER: Lawler, Matusky & Skelly Engineers
 CONTRACT No.: D002676
 PROJECT NAME: United Plating RI/FS
 WORK ASSIGNMENT No.: D002676-10
 TASK No./NAME: Task 8
 COMPLETE: 0%

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

PAGE: 8 of 9
 DATE PREPARED: 17 Oct 97
 BILLING PERIOD:
 INVOICE No.:
 CAP No.:

	A	B	C	D	E	F	G	H
EXPENDITURE CATEGORY	COST CLAIMED THIS PERIOD	PAID TO DATE	TOTAL DISSALLOWED TO DATE	TOTAL COSTS PAID TO DATE (A + B)	ESTIMATED COSTS TO COMPLETION	ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A + B + E)	APPROVED BUDGET	ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	10,026.43	10,026.43	10,026.43	0.00
2. Indirect Salary Costs (1.5185):	0.00	0.00	0.00	0.00	15,225.13	15,225.13	15,225.13	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	25,251.56	25,251.56	25,251.56	0.00
4. Travel:	0.00	0.00	0.00	0.00	193.10	193.10	193.10	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	1,965.00	1,965.00	1,965.00	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Subtotal Direct Non-Salary Costs:	0.00	0.00	0.00	0.00	2,158.10	2,158.10	2,158.10	0.00
7. Subs:								
Subconsultants:								
CHA	0.00	0.00	0.00	0.00	90,065.38	90,065.38	90,065.38	0.00
Subcontractors:								
Zebra Environmental	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IEA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetra K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	117,475.04	117,475.04	117,475.04	0.00
9. Fees:								
Fixed Fee:	0.00	0.00	0.00	0.00	2,525.16	2,525.16	2,525.16	0.00
Management Fee:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	120,000.20	120,000.20	120,000.20	0.00

Project Manager (Engineer): _____

Date: _____

ENGINEER:
 CONTRACT No.:
 PROJECT NAME:
 WORK ASSIGNMENT No.:

Lawler, Matusky & Skelly Engineers LLP
 D002676
 United Plating RI/FS
 D002676-10

SCHEDULE 2.11(g) - SUPPLEMENTAL

**COST CONTROL REPORT
 SUBCONTRACTOR**

PAGE: 9 of 9
 DATE PREPARED: 17 Oct 97
 BILLING PERIOD:
 INVOICE No.:
 CAP No.:

SUBCONTRACT NAME	A SUBCONTRACT COST CLAIMED HIS APPLICATION INCLUDING RESUBMITTALS	B SUBCONTRACT COST APPROVED FOR PAYMENT ON PREVIOUS APPLICATIONS	C TOTAL SUBCONTRACT COSTS TO DATE (A PLUS B)	D SUBCONTRACT APPROVED BUDGET	E MANAGEMENT FEE BUDGET	F MANAGEMENT FEE PAID	G TOTAL COSTS TO DATE (C PLUS F)
1. E3I (MBE)	0.00	129,393.50	129,393.50	187,134.00	9,356.70	0.00	129,393.50
2. Data Validation Services (WBE)	0.00	13,278.50	13,278.50	21,990.75	1,099.54	0.00	13,278.50
3. Albany Ladder	0.00	283.55	283.55	300.00	0.00	0.00	283.55
4. Pollution Solutions (Debris) (WBE)	0.00	7,385.29	7,385.29	1,797.00	0.00	0.00	7,385.29
5. ADT	0.00	28,558.50	28,558.50	74,769.00	3,738.45	0.00	28,558.50
6. Pollution Solutions (Test Pits) (WBE)	0.00	3,844.00	3,844.00	5,566.00	0.00	0.00	3,844.00
7. Empire Soils	0.00	1,246.00	1,246.00	1,889.00	0.00	0.00	1,246.00
8. Gomez Electric (MBE)	0.00	1,340.00	1,340.00	1,340.00	0.00	0.00	1,340.00
9. Brady Fence Co. (WBE)	0.00	1,524.75	1,524.75	1,425.00	0.00	0.00	1,524.75
10. Williams Scotsman	0.00	1,933.91	1,933.91	1,408.00	0.00	0.00	1,933.91
11. NYNEX	0.00	0.00	0.00	269.44	0.00	0.00	0.00
12. American-Can Rentals	0.00	438.51	438.51	450.00	0.00	0.00	438.51
13. Inchcape Testing (Aquatec)	0.00	3,841.52	3,841.52	26,515.00	1,325.75	0.00	3,841.52
14. Repeat Business Systems	0.00	1,340.62	1,340.62	1,500.00	0.00	0.00	1,340.62
15. ERD Environmental	0.00	0.00	0.00	2,350.00	0.00	0.00	0.00
16. Liverpool Blueprint	0.00	0.00	0.00	89.60	0.00	0.00	0.00
17. Alpina International, Inc. (MBE)	0.00	0.00	0.00	1,752.34	0.00	0.00	0.00
18. Presicion	0.00	990.00	990.00	0.00	0.00	0.00	990.00
TOTALS:	0.00	195,398.65	195,398.65	330,545.13	15,520.44	0.00	195,398.65

Project Manager: _____

Date: _____

- Notes: (1)Costs listed in columns A, B, C & D do not include any management fee costs.
 (2)Management fee is applicable to only properly procured, satisfactorily completed, unit price subcontracts over \$10,000.
 (3)Total line, column G should equal line 7 (subcontractors), column D of Summary Cost Control Report.

ENGINEER: Lawler, Matusky & Skelly Engineers LLP

SCHEDULE 2.11(h)

DATE PREPARED: 17 Oct 97

CONTRACT No.: D002676

BILLING PERIOD:

PROJECT NAME: United Plating RI/FS

MONTHLY COST CONTROL REPORT

INVOICE No.:

WORK ASSIGN. No.: D002676-10

SUMMARY OF LABOR HOURS

Number of Direct Labor Hours Expended to Date/Estimated Number of Direct Labor Hours to Completion

LABOR CLASSIFICATION SALARY RATE	IX		VIII		VII		VI		V		IV		III		II		I		WP		TOTAL NO. OF DIRECT LABOR HRS.	
	\$48.86		\$37.56		\$32.96		\$30.87		\$27.54		\$21.54		\$19.28		\$17.78		\$13.48		\$12.66			
	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.	EXP.	/EST.								
Task 1	0.0	8.0	0.0	0.0	0.0	94.0	0.0	12.0	0.0	140.0	0.0	168.0	0.0	0.0	0.0	84.0	0.0	5.0	0.0	73.0	0.0	584.0
Task 2A	0.0	14.0	0.0	0.0	0.0	104.0	0.0	24.0	0.0	181.0	0.0	275.0	0.0	464.0	0.0	352.0	0.0	366.0	0.0	65.0	0.0	1,845.0
Task 2B	0.0	21.0	0.0	6.0	0.0	66.0	0.0	8.0	0.0	163.0	0.0	389.0	0.0	598.0	0.0	161.0	0.0	399.0	0.0	112.0	0.0	1,923.0
Task 3	0.0	22.0	0.0	0.0	0.0	123.0	0.0	0.0	0.0	164.0	0.0	357.0	0.0	0.0	0.0	79.0	0.0	0.0	0.0	112.0	0.0	857.0
Task 4	0.0	3.0	0.0	2.0	0.0	40.0	0.0	0.0	0.0	85.0	0.0	200.0	0.0	48.0	0.0	84.0	0.0	11.0	0.0	68.0	0.0	541.0
Task 5	0.0	3.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	72.0	0.0	240.0	0.0	20.0	0.0	101.0	0.0	27.0	0.0	90.0	0.0	593.0
Task 6	0.0	3.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	58.0	0.0	48.0	0.0	24.0	0.0	24.0	0.0	8.0	0.0	50.0	0.0	239.0
Task 7	0.0	6.0	0.0	0.0	0.0	60.0	0.0	12.0	0.0	106.0	0.0	200.0	0.0	364.0	0.0	136.0	0.0	312.0	0.0	52.0	0.0	1,248.0
Task 8	0.0	3.0	0.0	0.0	0.0	34.0	0.0	13.0	0.0	89.0	0.0	42.0	0.0	28.0	0.0	71.0	0.0	21.0	0.0	71.0	0.0	372.0
TOTAL HOURS:	0.0	83.0	0.0	8.0	0.0	585.0	0.0	69.0	0.0	1,058.0	0.0	1,919.0	0.0	1,546.0	0.0	1,092.0	0.0	1,149.0	0.0	693.0	0.0	8,202.0

NOTES:

ENGINEER: Lawler, Matusky & Skelly Engineers LLP

SCHEDULE 2.11(h)

ATE PREPARED: 17 Oct 97

CONTRACT No.: D002676

BILLING PERIOD:

PROJECT NAME: United Plating RI/FS

MONTHLY COST CONTROL REPORT

INVOICE No.:

WORK ASSIGN. No.: D002676-10

SUMMARY OF LABOR HOURS

Number of Direct Labor Hours Budgeted/Expended Number of Direct Labor Hours

LABOR CLASSIFICATION SALARY RATE	IX		VIII		VII		VI		V		IV		III		II		I		WP		TOTAL NO. OF DIRECT LABOR HRS.	
	\$48.86		\$37.56		\$32.96		\$30.87		\$27.54		\$21.64		\$19.28		\$17.78		\$13.48		\$12.66		BUD	EXP.
	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.
Task 1	8.0	0.0	0.0	0.0	94.0	0.0	12.0	0.0	140.0	0.0	168.0	0.0	0.0	0.0	84.0	0.0	5.0	0.0	73.0	0.0	584.0	0.0
Task 2A	14.0	0.0	0.0	0.0	104.0	0.0	24.0	0.0	181.0	0.0	275.0	0.0	464.0	0.0	352.0	0.0	366.0	0.0	65.0	0.0	1,845.0	0.0
Task 2B	21.0	0.0	6.0	0.0	66.0	0.0	8.0	0.0	163.0	0.0	389.0	0.0	598.0	0.0	161.0	0.0	399.0	0.0	112.0	0.0	1,923.0	0.0
Task 3	22.0	0.0	0.0	0.0	123.0	0.0	0.0	0.0	164.0	0.0	357.0	0.0	0.0	0.0	79.0	0.0	0.0	0.0	112.0	0.0	857.0	0.0
Task 4	3.0	0.0	2.0	0.0	40.0	0.0	0.0	0.0	85.0	0.0	200.0	0.0	48.0	0.0	84.0	0.0	11.0	0.0	68.0	0.0	541.0	0.0
Task 5	3.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	72.0	0.0	240.0	0.0	20.0	0.0	101.0	0.0	27.0	0.0	90.0	0.0	593.0	0.0
Task 6	3.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	58.0	0.0	48.0	0.0	24.0	0.0	24.0	0.0	8.0	0.0	50.0	0.0	239.0	0.0
Task 7	6.0	0.0	0.0	0.0	60.0	0.0	12.0	0.0	106.0	0.0	200.0	0.0	364.0	0.0	136.0	0.0	312.0	0.0	52.0	0.0	1,248.0	0.0
Task 8	3.0	0.0	0.0	0.0	34.0	0.0	13.0	0.0	89.0	0.0	42.0	0.0	28.0	0.0	71.0	0.0	21.0	0.0	71.0	0.0	372.0	0.0
TOTAL HOURS:	83.0	0.0	8.0	0.0	585.0	0.0	69.0	0.0	1,058.0	0.0	1,919.0	0.0	1,546.0	0.0	1,092.0	0.0	1,149.0	0.0	693.0	0.0	8,202.0	0.0

NOTES:

DETAILED TASK COST ESTIMATE

**LABOR HOURS AND COSTS
TASK SUMMARY**

NSPE/ASCE LABOR CLASS	1995 HOURLY RATE (\$)	1996 HOURLY RATE (\$)	1997 HOURLY RATE (\$)	TASK 1: 1995 RATES	TASK 2A: 1995 RATES	TASK 2B: 1995 RATES	TASK 3: 1995 RATES	TASK 4: 1996 RATES	TASK 5: 1996 RATES	TASK 6: 1996 RATES	TASK 7: 1996 RATES	TASK 8: 1997 RATES	TOTAL HOURS	SUBTOTAL (\$)
	IX	54.38	57.38	60.53	8.0	14.0	21.0	22.0	3.0	3.0	3.0	6.0	3.0	83
VIII	41.81	44.11	46.53	0.0	0.0	6.0	0.0	2.0	0.0	0.0	0.0	0.0	8	339.08
VII	36.68	38.70	40.83	94.0	104.0	66.0	123.0	40.0	40.0	24.0	60.0	34.0	585	21,930.18
VI	34.36	36.25	38.24	12.0	24.0	8.0	0.0	0.0	0.0	0.0	12.0	13.0	69	2,443.96
V	30.65	32.34	34.12	140.0	181.0	163.0	164.0	85.0	72.0	58.0	106.0	89.0	1,058	33,279.02
IV	23.97	25.29	26.68	168.0	275.0	389.0	357.0	200.0	240.0	48.0	200.0	42.0	1,919	47,020.41
III	21.47	22.65	23.89	0.0	464.0	598.0	0.0	48.0	20.0	24.0	364.0	28.0	1,546	33,798.46
II	20.88	22.02	23.24	84.0	352.0	161.0	79.0	84.0	101.0	24.0	136.0	71.0	1,092	23,361.82
I	15.83	16.70	17.62	5.0	366.0	399.0	0.0	11.0	27.0	8.0	312.0	21.0	1,149	18,537.72
W/P	14.09	14.87	15.68	73.0	65.0	112.0	112.0	68.0	90.0	50.0	52.0	71.0	693	10,080.06
TOTAL UNITS:				584	1,845	1,923	857	541	593	239	1,248	372	8,202	
DIRECT SALARY COSTS (\$):				15,474.88	41,561.55	42,503.87	22,519.49	13,747.00	14,584.44	6,139.76	28,810.28	10,026.43		195,367.70
INDIRECT SALARY COSTS (\$):	1.5185			23,498.60	63,111.20	64,542.14	34,195.84	20,874.82	22,146.48	9,323.22	43,748.41	15,225.13		296,665.84
SUBTOTAL (\$):				38,973.48	104,672.75	107,046.01	56,715.33	34,621.82	36,730.92	15,462.98	72,558.69	25,251.56		492,033.54
FIXED FEE (\$):	0.10			3,897.35	10,467.28	10,704.60	5,671.53	3,462.18	3,673.10	1,546.30	7,255.87	2,525.16		49,203.37
MATERIAL COSTS (\$):				2,194.40	6,495.45	8,291.85	1,960.50	1,176.00	1,906.00	1,835.00	4,618.70	1,965.00		30,442.90
TRAVEL COSTS (\$):				379.24	7,365.56	8,211.39	1,314.00	316.00	237.00	316.00	7,170.10	193.10		25,502.39
FIELD EQUIPMENT (\$):				169.00	8,714.40	2,494.00	1,630.00	0.00	0.00	0.00	3,611.00	0.00		16,618.40
SUBS (\$):				0.00	146,841.36	80,580.50	17,606.49	14,843.75	0.00	1,549.20	80,891.85	90,065.38		432,378.53
MGMT FEE (\$):	0.05			0.00	6,423.24	3,506.28	865.69	742.19	0.00	0.00	3,983.06	0.00		15,520.46
TOTAL (\$):				45,613.47	290,980.04	220,834.63	85,763.54	55,161.94	42,547.02	20,709.48	180,089.27	120,000.20		1,061,699.59

TABLE 8 (Page 1 of 4)

LABOR HOURS AND COSTS
TASK 8: Design Services for O.U. #1

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	8.1 SCOPING AND REMEDIAL DESIGN WORK PLAN	8.2 PRELIMINARY DESIGN	8.3 INTERMEDIATE DESIGN	8.4 FINAL DESIGN	8.5 QC/QA PLAN	8.6 SITE HEALTH AND SAFETY PLAN	8.7 COMMUNITY HEALTH AND SAFETY PLAN	8.8 CONTINGENCY PLAN	8.9 PRE-AWARD SERVICES	8.10 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	60.53	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	3	181.59
VIII	46.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
VII	40.83	4.0	1.0	1.0	1.0	7.0	1.0	1.0	11.0	1.0	6.0	34	1,388.22
VI	38.24	0.0	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	13	497.12
V	34.12	8.0	2.0	2.0	2.0	13.0	24.0	20.0	0.0	4.0	14.0	89	3,036.68
IV	26.68	2.0	2.0	2.0	2.0	0.0	0.0	4.0	28.0	2.0	0.0	42	1,120.56
III	23.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	0.0	28	668.92
II	23.24	8.0	2.0	2.0	2.0	38.0	0.0	0.0	12.0	2.0	5.0	71	1,650.04
I	17.62	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	6.0	21	370.02
WP	15.68	0.0	2.0	2.0	2.0	16.0	16.0	16.0	12.0	2.0	3.0	71	1,113.28
TOTAL UNITS:		32	9	9	10	87	41	46	91	12	35	372	
DIRECT SALARY COSTS (\$):		851.76	240.27	240.27	300.80	2,360.49	1,110.59	1,168.93	2,332.13	369.04	1,052.15		10,026.43
INDIRECT SALARY COSTS (\$):	1.5185	1,293.40	364.85	364.85	456.76	3,584.40	1,686.43	1,775.02	3,541.34	560.39	1,597.69		15,225.13
SUBTOTAL (\$):		2,145.16	605.12	605.12	757.56	5,944.89	2,797.02	2,943.95	5,873.47	929.43	2,649.84		25,251.56
FIXED FEE (\$):	0.10	214.52	60.51	60.51	75.76	594.49	279.70	294.40	587.35	92.94	264.98		2,525.16
MATERIAL COSTS (\$):		279.00	196.00	197.00	192.00	265.00	165.00	165.00	179.00	220.00	107.00		1,965.00
TRAVEL COSTS (\$):		0.00	0.00	0.00	96.55	0.00	0.00	0.00	0.00	96.55	0.00		193.10
FIELD EQUIPMENT (\$):		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
SUBS (\$):		5,792.96	31,923.02	15,064.82	27,473.17	0.00	0.00	0.00	0.00	6,545.22	3,266.19		90,065.38
MGMT FEE (\$):	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
TOTAL (\$):		8,431.64	32,784.65	15,927.45	28,595.04	6,804.38	3,241.72	3,403.35	6,639.82	7,884.14	6,288.01		120,000.20

MATERIAL COSTS

TASK 8: Design Services for O.U. #1

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	8.1 SCOPING AND REMEDIAL DESIGN WORK PLAN	8.2 PRELIMINARY DESIGN	8.3 INTERMEDIATE DESIGN	8.4 FINAL DESIGN	8.5 QC/OA PLAN	8.6 SITE HEALTH AND SAFETY PLAN	8.7 COMMUNITY HEALTH AND SAFETY PLAN	8.8 CONTINGENCY PLAN	8.9 PRE-AWARD SERVICES	8.10 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	100	100	100	100	100	50	50	20	100	100	820.00
Reproduction	(per page)	0.07	1,000	100	200	200	1,500	1,000	1,000	1,500	200	100	476.00
General PC usage	(per hr)	1.50	6	6	2	2	20	10	10	20	4	0	120.00
Fax	(per page)	1.00	50	50	50	50	10	10	10	4	50	0	284.00
Overnight shipping	(at cost)	1.00	50	30	30	25	20	20	20	20	50	0	265.00
TOTAL UNITS:			1,206	286	382	377	1,650	1,090	1,090	1,564	404	200	
TASK TOTAL (\$):			279.00	196.00	197.00	192.00	265.00	165.00	165.00	179.00	220.00	107.00	1,965.00

TRAVEL COSTS
TASK 8: Design Services for O.U. #1

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	8.1 SCOPING AND REMEDIAL DESIGN	8.2 PRELIMINARY DESIGN	8.3 INTERMEDIATE DESIGN	8.4 FINAL DESIGN	8.5 QC/QA PLAN	8.6 SITE HEALTH AND SAFETY PLAN	8.7 COMMUNITY HEALTH AND SAFETY	8.8 CONTINGENCY PLAN	8.9 PRE-AWARD SERVICES	8.10 TASK MANAGEMENT	TOTAL (\$)
Personal mileage	(per mile)	0.23	0	0	0	385	0	0	0	0	385	0	177.10
Tolls	(at cost)	1.00	0	0	0	8	0	0	0	0	8	0	16.00
TOTAL UNITS:			0	0	0	393	0	0	0	0	393	0	
TASK TOTAL (\$):			0.00	0.00	0.00	96.55	0.00	0.00	0.00	0.00	96.55	0.00	193.10

SUBCONSULTANTS/SUBCONTRACTORS COSTS

TASK 8: Design Services for O.U. #1

ITEM	8.1 SCOPING AND REMEDIAL DESIGN WORK PLAN	8.2 PRELIMINARY DESIGN	8.3 INTERMEDIATE DESIGN	8.4 FINAL DESIGN	8.5 QC/QA PLAN	8.6 SITE HEALTH AND SAFETY PLAN	8.7 COMMUNITY HEALTH AND SAFETY PLAN	8.8 CONTINGENCY PLAN	8.9 PRE-AWARD SERVICES	8.10 TASK MANAGEMENT	TOTAL (\$)
<i>Subconsultants:</i>											
CHA	5,792.96	31,923.02	15,064.82	27,473.17	0.00	0.00	0.00	0.00	6,545.22	3,266.19	90,065.38
SUBTOTAL:	5,792.96	31,923.02	15,064.82	27,473.17	0.00	0.00	0.00	0.00	6,545.22	3,266.19	90,065.38
<i>Subcontractors:</i>											
SUBTOTAL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL:	5,792.96	31,923.02	15,064.82	27,473.17	0.00	0.00	0.00	0.00	6,545.22	3,266.19	90,065.38

LABOR HOURS AND COSTS
TASK 8 :DESIGN SERVICES FOR O.U.#1

UNIFORMED LABOR CLASS	HOURLY RATE (\$)	TASK B.1: Scoping/Work Plan	TASK B.2: Preliminary Design	TASK B.3: Intermediate Design	TASK B.4: Final Design	TASK B.5: O&M Plan	TASK B.6: Health & Safety Plan	TASK B.7: Com Health & Safety Plan	TASK B.8: Configuration Plan	TASK B.9: Pre-Award Services	TASK B.10: Task Management	TOTAL HOURS	SUBTOTAL (\$)
IX	57.08	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	4	228.32
VIII	48.54	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	12	582.48
VII	39.26	0.0	2.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	5	196.30
VI	31.74	24.0	8.0	2.0	4.0	0.0	0.0	0.0	0.0	8.0	24.0	70	2,221.80
V	28.98	24.0	38.0	16.0	16.0	0.0	0.0	0.0	0.0	8.0	0.0	102	2,955.96
IV	25.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
III	22.49	24.0	280.0	100.0	160.0	0.0	0.0	0.0	0.0	80.0	0.0	644	14,483.56
II	19.41	0.0	60.0	40.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	180	3,493.80
I	16.57	4.0	120.0	100.0	200.0	0.0	0.0	0.0	0.0	0.0	12.0	436	7,224.52
WP	11.90	2.0	24.0	24.0	24.0	0.0	0.0	0.0	0.0	4.0	4.0	82	975.80
TOTAL UNITS:		80	535	285	489	0	0	0	0	102	44	1,536	
DIRECT SALARY COSTS (\$):		2,184.20	11,323.64	5,631.50	9,574.12	0.00	0.00	0.00	0.00	2,429.64	1,219.44		32,362.54
INDIRECT SALARY COSTS (\$):	1.3100	2,861.30	14,833.97	7,377.27	12,542.10	0.00	0.00	0.00	0.00	3,182.83	1,597.47		42,394.94
SUBTOTAL (\$):		5,045.50	26,157.61	13,008.77	22,116.22	0.00	0.00	0.00	0.00	5,612.47	2,816.91		74,757.48
FIXED FEE (\$):	0.12	605.46	3,138.91	1,561.05	2,653.95	0.00	0.00	0.00	0.00	673.50	338.03		8,970.90
MATERIAL COSTS (\$):		115.00	1,052.00	474.00	1,284.00	0.00	0.00	0.00	0.00	199.00	90.00		3,214.00
TRAVEL COSTS (\$):		27.00	54.00	9.00	72.00	0.00	0.00	0.00	0.00	27.00	0.00		189.00
FIELD EQUIPMENT (\$):		0.00	472.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00		520.00
SUBS (\$):		0.00	1,048.50	12.00	1,299.00	0.00	0.00	0.00	0.00	33.25	21.25		2,414.00
MGMT FEE (\$):	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
TOTAL (\$):		5,792.96	31,923.02	15,064.82	27,473.17	0.00	0.00	0.00	0.00	6,545.22	3,266.19		90,065.38

UNITEDSU.XLS
MATERIAL COSTS
TASK 8 :DESIGN SERVICES FOR O.U.#1

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	TASK 8.1: Scoping/Work Plan	TASK 8.2:Preliminary Design	TASK8.3:Intermediate Design	TASK 8.4:Final Design	TASK 8.5:QA/QC Plan	TASK8.6:Health & Safety Plan	TASK 8.7:Com. Health & Safety Plan	TASK 8.8:Contingency Plan	TASK8.9:Pre-Award Services	TASK 8.10:Task Management	TOTAL (\$)
Telephone	(at cost)	1.00	25	50	25	50	0	0	0	0	25	25	200.00
Reproduction	(per page)	0.05	1,000	500	500	2,920	0	0	0	0	300	0	261.00
General PC usage	(per hr)	1.50	0	0	0	0	0	0	0	0	0	0	0.00
Auto CADD	(per hr)	8.50	0	0	40	100	0	0	0	0	0	0	1,870.00
Fax	(at cost)	1.00	15	25	15	25	0	0	0	0	15	15	110.00
Mailing/shipping	(at cost)	1.00	25	100	25	100	0	0	0	0	100	50	400.00
Information purchases	(at cost)	1.00	0	0	0	0	0	0	0	0	0	0	0.00
Photography	(at cost)	1.00	0	50	0	25	0	0	0	0	0	0	75.00
Lg/ print repro (30x42)	(per page)	1.10	0	20	40	80	0	0	0	0	40	0	198.00
Consumable equip.*	(at cost)	1.00	0	100	0	0	0	0	0	0	0	0	100.00
TOTAL UNITS:			1,065	925	645	3,300	0	0	0	480	480		
TASK TOTAL (\$):			115.00	1,052.00	474.00	1,284.00	0.00	0.00	0.00	0.00	199.00	90.00	3,214.00

- Stakes, graphic supplies, mylars, etc.

UNITEDSU.XLS
TRAVEL COSTS
 TASK 8 :DESIGN SERVICES FOR O.U.#1

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	TASK 8.1: Scoping/Work Plan	TASK 8.2:Preliminary Design	TASK 8.3:Intermediate Design	TASK 8.4:Final Design	TASK 8.5:QA/QC Plan	TASK 8.6:Health & Safety Plan	TASK 8.7:Com Health & Safety Plan	TASK 8.8:Contingency Plan	TASK 8.9:Pre-Award Services	TASK 8.10:Task Management	TOTAL (\$)
Air fare	(at cost)	1.00	0	0	0	0	0	0	0	0	0	0	0.00
Auto rental	(per day)	39.00	0	0	0	0	0	0	0	0	0	0	0.00
Personal mileage	(per mile)	0.30	90	180	30	240	0	0	0	0	90	0	0.00
Per diem	(per day)	104.00	0	0	0	0	0	0	0	0	0	0	0.00
Tolls, etc.	(at cost)	0.00	0	0	0	0	0	0	0	0	0	0	0.00
TOTAL UNITS:			90	180	30	240	0	0	0	0	90	0	
TASK TOTAL (\$):			27.00	54.00	9.00	72.00	0.00	0.00	0.00	0.00	27.00	0.00	189.00

FIELD EQUIPMENT COSTS
TASK 8 :DESIGN SERVICES FOR O.U.#1

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	TASK 8.1: Scoping/Work Plan	TASK 8.2:Preliminary Design	TASK 8.3:Intermediate Design	TASK 8.4:Final Design	TASK 8.5:QA/QC Plan	TASK 8.6:Health & Safety Plan	TASK 8.7:Com Health & Safety Plan	TASK 8.8:Contingency Plan	TASK 8.9:Pre-Award Services	TASK 8.10:Task Management	TOTAL (\$)
Personal Protective Equipment:													
Level D (per person)	(per day)	12	0	4	0	4	0	0	0	0	0	0	96.00
Level C	(per day)	53	0	8	0	0	0	0	0	0	0	0	424.00
Level B	(per day)	63	0	0	0	0	0	0	0	0	0	0	0.00
Cost of air	(per day)	1	0	0	0	0	0	0	0	0	0	0	0.00
Submersible well pump - Jonka	(per day)	6	0	0	0	0	0	0	0	0	0	0	0.00
Submersible well pump - Teel	(per day)	6	0	0	0	0	0	0	0	0	0	0	0.00
Submersible well pump - Gould (dry well)	(per day)	6	0	0	0	0	0	0	0	0	0	0	0.00
Peristaltic pump - Masterflex	(per day)	3	0	0	0	0	0	0	0	0	0	0	0.00
Vacuum pump - GE/Gast	(per day)	4	0	0	0	0	0	0	0	0	0	0	0.00
Centrifugal - Teel	(per day)	3	0	0	0	0	0	0	0	0	0	0	0.00
Centrifugal - Homelite	(per day)	2	0	0	0	0	0	0	0	0	0	0	0.00
Inertial Pump- WaTerra	(per day)	38	0	0	0	0	0	0	0	0	0	0	0.00
Bladder pump -Isco	(per day)	38	0	0	0	0	0	0	0	0	0	0	0.00
Generators - Honda EX 1000	(per day)	7	0	0	0	0	0	0	0	0	0	0	0.00
Generatos - Daystrom (5,000 watt)	(per day)	37	0	0	0	0	0	0	0	0	0	0	0.00
Generator - Honda (5,000 watt)	(per day)	46	0	0	0	0	0	0	0	0	0	0	0.00
Generators - Honda (2,200 watt)	(per day)	21	0	0	0	0	0	0	0	0	0	0	0.00
Generators - Honda (1,500 watt)	(per day)	52	0	0	0	0	0	0	0	0	0	0	0.00
Generators - Honda (800 watt)	(per day)	39	0	0	0	0	0	0	0	0	0	0	0.00
High pressure washer - WAP (220 volt)	(per day)	70	0	0	0	0	0	0	0	0	0	0	0.00
High pressure washer - Landa (110 volt)	(per day)	92	0	0	0	0	0	0	0	0	0	0	0.00
PID - HNu (P1-101)	(per day)	17	0	0	0	0	0	0	0	0	0	0	0.00
PID - Thermo 580S (OVM)	(per day)	11	0	0	0	0	0	0	0	0	0	0	0.00
FID - Foxboro (OVA-128)	(per day)	55	0	0	0	0	0	0	0	0	0	0	0.00
Combustible gas indicator - H2S	(per day)	86	0	0	0	0	0	0	0	0	0	0	0.00
Combustible gas indicator - Scott S109	(per day)	18	0	0	0	0	0	0	0	0	0	0	0.00
SUBTOTAL:			0.00	472.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	520.00

UNITEDSU.XLS
SUBCONSULTANTS/SUBCONTRACTORS COSTS
TASK 8 :DESIGN SERVICES FOR O.U.#1

ITEM	TASK 8.1: Scoping/Work Plan	TASK 8.2:Preliminary Design	TASK 8.3:Intermediats Design	TASK 8.4:Final Design	TASK 8.5:QA/QC Plan	TASK 8.6:Health & Safety Plan	TASK 8.7:Com Health & Safety Plan	TASK 8.8:Contingency Plan	TASK 8.9:Pre-Award Services	TASK 8.10:Task Management	TOTAL (\$)
Subconsultants:											
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcontractors:											
Envirotech Res.	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00
Marsden Co.	0.00	48.50	12.00	1,299.00	0.00	0.00	0.00	0.00	33.25	21.25	1,414.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBTOTAL:	0.00	1,048.50	12.00	1,299.00	0.00	0.00	0.00	0.00	33.25	21.25	2,414.00
TOTAL:	0.00	1,048.50	12.00	1,299.00	0.00	0.00	0.00	0.00	33.25	21.25	2,414.00

APPENDIX A
SUBCONTRACTOR QUOTATIONS
AND
OTHER COST BACKUP

TABLE OF CONTENTS

SUBCONTRACTOR QUOTATIONS

ITEM	SUBJECT
1	Asbestos Laboratory Analysis
2	Printing

ASBESTOS LABORATORY ANALYSIS

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (908) 549-3900
Fax: (908) 549-3679

October 3, 1997

Ms. Maria Heincz
LMS Engineers
One Blue Hill Plaza
Pearl River, NY 10965

Re: Asbestos Analysis for NYSDEC Standby Contract

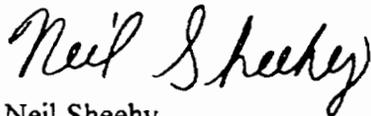
Dear Ms. Heincz:

We intend to subcontract asbestos analysis to EMSL Analytical Inc. Prices and turnaround times listed below include the cost of delivering samples to their laboratory.

Turnaround Time	TEM Air Analysis	PLM Analysis	PCM Analysis	SEM Bulk
24 Hours	\$100.00	\$50.00	\$50.00	NA
48 Hours	\$90.00	\$40.00	\$45.00	NA
72 Hours	\$85.00	NA	NA	NA
3 Days	NA	\$35.00	NA	NA
5 Days	\$80.00	\$30.00	\$30.00	\$150.00

Please call me at (732)549-3900 if I can be of any further help.

Very truly yours,
Envirotech Research, Inc



Neil Sheehy
Account Executive

PRINTING

INTEROFFICE CORRESPONDENCE



**CLOUGH, HARBOUR
& ASSOCIATES LLP**
ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS

Date: October 15, 1997

To: The Files, CHA File No. 6808

From: Margaret M. Rudzinski

Subject: MBE/WBE Utilization, United Plating Site, NYSDEC Standby Contract
Work Assignment D002676-10.2

CHA has spoken to the following MBE/WBE firms for printing/reproduction related services on the above referenced project. Other calls were made; however, due to communication difficulties, unit rates were not provided. Discussions pursued with the following:

Marsden Company
A/E Blueprinting Inc.
Adrian Petrook
A. Estaban & Company, Inc.

The unit costs provided by the Marsden Company appear reasonable and within contract specified rates for this project and have been enclosed with this work plan.



Margaret M. Rudzinski

/mr
h/environ/6808/mwumemo

NOV 15 1997 8:54AM CLOUGH HARBOUR ALE

No. 5342



CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS & LANDSCAPE ARCHITECTS

III Winners Circle P.O. Box 5269
Albany, New York 12205-0269
Tel: (518) 453-4500
Fax: (518) 458-1735

FACSIMILE TRANSMITTAL

Confirmation Requested
Call Sender upon receipt of this Fax

Transmittal sheet plus 0 additional pages CHA Project No. _____

Date: 10/15 Time: 9:48 Fax No: (718) 784-5526

To (Firm Name): Marsden Co.

Attention: Lynn

Sender: Jholee Magee Tel. No. (518) 453-4510

Please call the sender with questions or in the event of incomplete fax transmission.

Comments:

8 1/2 x 11 estimate 32,000 copies (pages)

@ .0425 = \$1360.00

180 24 x 36 drawings (Blue lines)

@ .05 per sq. ft. = 54.00

Reproduction of a bid package with drawings

Total \$1414.00

Plus shipping



Jim Ludlam

To: *Sujan Gupta, PE.* Date *10/24/97* Job No. *653.099*
NYSDPC Attention: *Sujan Gupta*
57 Wolf Rd Re: *Work Plan Amendment*
Albany NY 12233-7010 *United Plotting Site*
WA # D002046-10.2

Gentlemen:

We are sending you attached under separate cover, via _____ the following items:
 Shop Drawings Prints Plans Samples Specifications Copy of Letter Change Order
 Other _____

COPIES	DATE	NO.	DESCRIPTION
<i>5</i>			<i>Modified pages of work plan plus</i>
			<i>Table of Contents</i>
<i>2</i>			<i>complete work plan</i>

These are transmitted as checked below:

For your approval Approved as submitted Submit _____ copies for distribution
 For your use Approved as noted Resubmit _____ copies for approval
 As requested Return for corrections Return _____ corrected prints
 For review and comment _____

FOR BID DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US.

REMARKS *As requested by Jim Ludlam enclosed are 5 sets of modified*
pages to work plan plus 2 complete work plans to give
to Jim Ludlam.

If enclosures are not as noted, kindly notify us at once. *Para A Wright*
 (Signed)

Copy to _____