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PLAN OF ACTION AND COST ESTIMATE FOR REMEDIAL INVESTIGATIONS AND  
FEASIBILITY STUDIES DESIGN SERVICES, AND POST-CONSTRUCTION AWARD  
SERVICES OPERABLE UNIT 3 (OU3) NTC ORLAND FL  
9/1/1996  
ABB ENVIRONMENTAL SERVICES, INC

# **PLAN OF ACTION AND COST ESTIMATE**

**Remedial Investigations and Feasibility Studies  
Design Services, and Post-Construction Award Services  
for Operable Unit 3**

**Naval Training Center  
Orlando, Florida**

**Unit Identification Code: N65928**

**Plan of Action Number: 8547.37**

**Contract No.: N62467-89-D-0317/107**

**Submitted by:**

**ABB Environmental Services, Inc.  
2590 Executive Center Circle, East  
Tallahassee, Florida 32301**

**September 1996**

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### ATTACHMENTS

- Attachment A: Project Schedule
- Attachment B: Cost Estimates
- Attachment C: Travel Summary Estimate
- Attachment D: Glossary

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## **I. INTRODUCTION**

The Naval Training Center (NTC), Orlando is located in Orange County, Florida, and consists of four areas: Main Base, Area C, McCoy Annex, and Herndon Annex. Soil and groundwater contamination were determined to exist at Study Areas 8 (Greenskeeper Storage Area) and 9 (Former Pesticide and Herbicide Storage Building) during Group I Site Screening Studies. As the two study areas are both located along the southeastern shoreline of Lake Baldwin and are separated by less than 1,000 feet, they have jointly been designated Operable Unit (OU) 3. Original plans anticipated that an Interim Removal Action (IRA) would be accomplished prior to the Remedial Investigation and Feasibility Study (RI/FS). However, after a review of screening data, and discussions with Southern Division and the Orlando Partnering Team (OPT) on September 11, 1996, a decision was made to include the intent of the IRA into this scope of work. The IRA intent is to assess current risks of the site and mitigate or prevent any potential health risks to the public that may include institutional or physical controls of the area, or may include soil removal or covering.

The scope of services will be provided in Section II of this Plan of Action (POA). Section III outlines the project personnel who will implement these efforts. Section IV lists the schedule of events, and Section V has the associated cost information. Section VI provides the Fee Itemization Form Scope Limitation. Supporting documentation is provided in the following attachments: Attachment A, Project Schedule; Attachment B, Cost Estimates; Attachment C, Travel Summary Estimate; and Attachment D, Glossary.

This POA and cost estimate responds to those tasks delineated in the June 28, 1996, Statement of Work as modified by negotiation comments made on September 11, 1996. The proposed tasks are as follows:

- Task 1.0: Project Management
- Task 2.0: Community Relations
- Task 3.0: Workplan Development
- Task 4.0: Remedial Investigation Fieldwork
- Task 5.0: Laboratory Analytical Services
- Task 6.0: Data Validation
- Task 7.0: Remedial Investigation Report
- Task 8.0: Human Health and Ecological Risk Assessment
- Task 9.0: Feasibility Study
- Task 10.0: Decision Document
- Task 11.0: Preliminary Design
- Task 12.0: Final Design
- Task 13.0: Post-Construction Award Services (PCAS), Consultation and Reporting

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## II. SCOPE OF WORK

**Task 1.0 Project Management (Work Breakdown Structure [WBS] 01).** This task includes effort proposed to manage the RI/FS, the preliminary and final design of the selected remedial alternative, and the PCAS, which will consist of oversight of the final design implementation.

Project management required for this effort is estimated to begin November 1, 1997, at notice to proceed and will extend through April 1999, and includes 5 months of PCAS. The level of effort (LOE) proposed in this modification is presented in Attachment A, Project Schedule. In accordance with the ABB Environmental Services, Inc. (ABB-ES), Comprehensive Long-Term Environmental Action, Navy (CLEAN) WBS, project management is composed of day-to day management and project meetings. ABB-ES will provide management consistent with the needs of the project objectives and ABB-ES's total quality management program.

### Day-to-Day Management

This effort includes, but is not limited to, budget tracking and review; periodic liaison with the Navy engineer-in-charge (EIC), facility personnel, and community personnel; telephone conversations; subcontractor management; conflict and problem resolutions; staff management; and document and report preparation and generation. The day-to-day management task includes preparation of a project execution plan, which is an internal control document that identifies project tasks, staffing, budget, and schedule. Additionally, it will include the necessary file management and administrative functions to be performed by the project assistant. Additional LOE will be required for offsite personnel management. The LOE for this subtask is located in Attachment B, Cost Estimates.

Anticipated meetings include the following:

### Project Meetings

LOE for meeting preparation, travel (if applicable), and attendance by the task order manager (TOM) is included. The LOE for other members of the project team (e.g., technical experts and technical leads) to attend these meetings is included in the appropriate tasks. Meeting minutes will be prepared and submitted to the EIC after every external project meeting. Additionally, support of the Restoration Advisory Board (RAB) meetings by appropriate project staff is included, along with two full project team meetings, which will be held at ABB-ES's offices in Orlando. LOE for this effort is located in Attachment B.

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### OPT and RAB Meetings

It is assumed that there will be one 2-day OPT meeting per month. Twenty-two 2-day OPT meetings, which will be held in Orlando, are included in this POA. This is based on monthly meetings over an 86-week period. The OPT meetings will coincide with bimonthly RAB meetings. Ten single-evening RAB meetings, which will also be held in Orlando, are included in this POA. RAB support will include preparation of meeting agendas, handouts and supporting materials, and meeting summaries. Participation in RAB meetings and debriefings, meeting coordination, and preparation and delivery of technical presentations to the RAB are also included. The TOM will attend the RAB meetings, and the technical experts and technical leads will attend on an as-needed basis.

### Field Program Meetings

Two 1-day meetings will be conducted during the course of the field program. The first will be to familiarize the various parties with the scope of the OU 3 RI/FS. The second will be to present the preliminary results of the field program. The TOM, technical experts, and technical leads will attend these meetings, which are anticipated to take place in Orlando.

### Data Management and Validation Meeting

One 1-day meeting will be conducted upon receipt of the validated data. The TOM and senior chemist will attend this meeting, which is anticipated to take place in Orlando.

### Treatability and Feasibility Meetings

Two 2-day meetings will be scheduled during the treatability study and preparation of the feasibility study (FS). The purpose of the meetings will be to present the recommended technologies and to solicit input from the Navy prior to report production. The TOM, technical experts, and technical leads will attend these meetings, which will take place in Orlando.

### Preliminary Remedial Action Design Meetings

Two 2-day meetings will be conducted during the preparation of design plans and specifications. The TOM, technical experts, and technical leads will attend these meetings. It is anticipated that one meeting will take place in Orlando, and one meeting will take place in ABB-ES's Portland Design Service Center. In addition to ABB-ES staff, the Remedial Action Contract (RAC) contractor will be invited to both meetings to facilitate progression into remedial action construction activities.

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The LOE total for this task is presented in the Task 1 cost model in Attachment B, Cost Estimates. Other direct costs (ODCs) are reflected in the cost models for this task.

**Task 2.0 Community Relations (WBS 02).** Community relations include preparation for and attendance at the bimonthly RAB meetings of the Community Relations (CR) specialist and maintenance of the document repositories at NTC, Orlando. These activities are currently funded for the CR specialist through June 1997. During negotiations on September 11, 1996, ABB-ES was informed that Community Relations tasks would only be funded on a yearly basis. Therefore, this task includes LOE to support RAB meetings from July 1997 to July 1998, at which time additional funds may be required.

An ABB-ES CR specialist will be responsible for preparation of summary documents for distribution to the RAB members and the public to keep local residents and other interested parties apprised of the more substantive results of field investigations, as well as conclusions resulting from interpretation of geologic and analytical data, and other remedial action activities.

**Task 3.0 RI/FS Workplan Development (WBS 04).** This task includes LOE for ABB-ES to develop an RI/FS workplan for OU 3. A summary of the workplan will be prepared for distribution to the public by the CR specialist.

ABB-ES will develop the strategy to be used to investigate OU 3, including investigative techniques to be employed and proposed sampling and investigation locations. The workplan strategy will be consistent with the "observational approach," as presented in workplans for OU 1 and OU 2 at NTC, Orlando and will incorporate the latest U.S. Environmental Protection Agency (USEPA) Data Quality Objectives process. These strategies will be presented to the OPT for recommendations and concurrence. Upon receipt of OPT concurrence, the RI/FS workplan will be finalized in draft form and submitted to the OPT for formal review. Upon receipt of formal written comments, the final RI/FS workplan will be produced.

ABB-ES will also produce a brief IRA report that will address the necessity to conduct an IRA and will include recommended actions that may be accomplished in the early phases of this RI/FS.

LOE and other direct costs are reflected in the Task 3 cost models in Attachment B, Cost Estimates.

**Task 4.0 RI/FS Fieldwork (WBS 05).** This task includes the fieldwork necessary to conduct a remedial investigation (RI) at OU 3 at NTC, Orlando.

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This subtask includes the implementation of the RI fieldwork for OU 3 on the Main Base, i.e., the Greenskeeper Storage Area and Former Pesticide and Herbicide Storage Building. Specific activities for the Greenskeeper Storage Area include the following:

- collection of up to 35 surface soil samples plus quality control (QC) samples and 2 toxicity characteristic leachate procedure (TCLP) (full) composite samples for analyses;
- field screening of subsurface soils and groundwater with the TerraProbe<sup>SM</sup>, collecting approximately 20 to 30 samples for analyses;
- installation of approximately nine soil borings and/or monitoring wells;
- collection of approximately nine groundwater samples and 2 TCLP composite samples for analyses; and
- collection of approximately six surface water and sediment samples from Lake Baldwin.

Specific activities for the Former Pesticide and Herbicide Storage Building site include the following:

- a geophysical survey between Trident Lane and Lake Baldwin to locate the former building foundation;
- collection of approximately 30 to 40 surface soil samples and 2 TCLP composite samples for analyses;
- field screening of subsurface soils and groundwater with the TerraProbe<sup>SM</sup>, collecting approximately 30 to 40 samples for analyses;
- installation of approximately nine soil borings and/or monitoring wells;
- collection of approximately nine groundwater samples for analyses; and
- collection of approximately six surface water and sediment samples from Lake Baldwin.

Upon completion of initial field activities (geophysics and direct push technology [DPT] sampling and analysis), the results will be presented to the OPT along with recommendations for well placement. The rationale for well placement will be to confirm DPT sampling results and delineate the nature and extent of contamination. With OPT concurrence, the

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soil borings and permanent monitoring wells will be installed. The results of all testing and sampling will be used for the human health and ecological risk assessment and the FS. The LOE and ODCs for the fieldwork include the geophysical survey, DPT efforts, drilling, and surveying subcontractor costs.

Upon receipt of Notice to Proceed and following workplan development, the field operations leader and a two-person field crew will require approximately 10 working days for liaison with subcontractors to prepare field equipment and consumables and to mobilize to the site. The technical leader for the RI effort will provide oversight throughout the RI phase. Normal work time is projected to be 10 hours per day, 5 days per week. The actual fieldwork associated with OU 3 is presented in Attachment A, Project Schedule. Five working days will be required to demobilize.

The LOE associated with this task is presented in the Task 4 cost model in Attachment B, Cost Estimates. Subcontractors and ODCs are reflected in the cost models for this task. Travel costs associated with this effort are provided in Attachment C.

In addition to the actual fieldwork, a quality assurance (QA) and health and safety audit will be conducted during the field investigation. This will involve visits to the field site and auditing of actual field procedures to ensure that they comply with applicable regulations. The LOE includes preparation time, travel time, time for the audit, and time to provide reports of the audits.

**Task 5.0 Laboratory Analytical Services (WBS 06).** This task is for the laboratory analytical costs only. This task includes the analyses of samples to be collected from OU 3, which will be sent under a chain of custody to a Naval Facilities Engineering Service Center-approved laboratory at least every other sample day by overnight delivery services (e.g., Federal Express). Relevant USEPA-approved methods and procedures will be used. The LOE for this task is based on analytical laboratory quotes and similar activities previously conducted at various site screening areas.

Soil and groundwater samples from Study Area 8 will be analyzed for target analyte list (TAL) inorganic compounds. Samples will be acquired by both DPT techniques [TerraProbe<sup>SM</sup>] and by conventional soil borings to be completed as monitoring wells. Soil samples from Study Area 9 will be analyzed for target compound list (TCL) pesticides, polycyclic aromatic hydrocarbons, and TAL inorganics to confirm results of field screening analysis by immunoassay. Groundwater samples will be analyzed for TAL inorganics. Surface water and sediment samples will be analyzed for TAL inorganics and total organic carbon.

For each sample, appropriate QA and QC procedures will be followed. QA/QC samples will include duplicates, blanks, matrix spikes, and other analyses required for TCL/TAL

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methods. Data packages will be required to achieve Naval Energy and Environmental Support Activity (NEESA) Level C or D certification.

**Task 6.0 Data Validation (WBS 07)**. This task will include services and documentation both on paper and in standard electronic format of data quality and validity used to support site characterization and remedy selection decisions for OU 3. All laboratory data packages will be subjected to NEESA Level C or D validation by an independent data validation subcontractor. In addition, data derived from field screening methods will be evaluated and compared to confirmatory laboratory data. This will be performed by ABB-ES personnel.

Laboratory data will be assessed using precision, accuracy, representativeness, completeness, and comparability parameters, based on the following USEPA guidance documents: National Functional Guidelines for Organic Data Review (June 1991), the Laboratory Data Validation Functional Guidelines for Evaluation Inorganic Analyses (July 1988), and ABB-ES draft Standard Operating Procedures. Upon receipt of the validated data by ABB-ES, the data packages will be reviewed for consistency and completeness and analytical performance problems. The data will be uploaded to Fast Retrieval of Environmental Data (FRED), and summary tables will be created for use in design documents. The cost estimate for this task is based on subcontractor quotes and experience in conducting data validation for similar data sets.

**Task 7.0 RI Report (WBS 09)**. A draft RI report will be prepared that will include

- nature and extent of contamination,
- fate and transport of contaminants through environmental media at the site, and
- human health and ecological risk assessments.

Upon completion of the draft RI report, a presentation of the results will be made to the OPT and RAB meetings. Comments gathered during this meeting along with formal written comments submitted by OPT members will be addressed.

The final RI report will not be prepared until the draft FS has been completed and comments received on the FS report have been resolved. At that time, a final RI/FS report will be prepared.

**Task 8.0 Human Health and Ecological Risk Assessment (WBS 08)**. The baseline risk assessments for Study Areas 8 and 9 will be conducted in accordance with USEPA Risk Assessment Guidance for Superfund, Volumes I and II, as well as supplemental guidance to the risk assessment guidance for Superfund published by USEPA Headquarters and Region IV. The baseline risk assessments will each consist of three components: (1) data evaluation and data summarization, (2) human health risk assessment, and (3) ecological

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risk assessment. The purpose of the data evaluation and data summarization sections will be to determine which environmental data produced in the RI are suitable for use in the risk assessments. The purpose of the human health risk assessment will be to determine if the contamination present at these sites poses potential risks to human health in the absence of any further remedial actions (aside from the intent of the IRA). The purpose of the ecological risk assessments will be to define potential ecological effects resulting from contaminants in environmental media at each site.

The human health risk assessment will quantify Reasonable Maximum Exposure risks to receptors under current and future land uses. The current land use is residential at Study Area 8 and industrial at Study Area 9 and receptors include residents, site workers, and trespassers exposed to surface soils via ingestion, dermal contact, and inhalation of dust. There is currently no exposure to groundwater. The planned future use of both Study Areas 8 and 9 is recreational. Therefore, for future land use, a recreational receptor will be evaluated for exposures to surface soils via ingestion, dermal contact, and inhalation of dust. A future construction and excavation worker will be evaluated for exposures to surface and subsurface soil via ingestion, dermal contact, and inhalation of dust. Although the planned use of the two sites is not residential, assessment of potential risks associated with exposure to surface soils and groundwater (as drinking water) for an unlikely future residential use of the site will be conducted to provide additional perspective in the risk management process.

There will be no assessment of human health risks associated with any potential exposures associated with potential groundwater discharge of contaminants to Lake Baldwin. The lake is closed to wading, swimming, and water skiing due to the presence of the spirochaete *Nigleria*, which is capable of causing fatal infections. While fishing and boating are allowed in the lake, no assessment of fish consumption will be evaluated because there is no indication that bioaccumulating contaminants from Study Areas 8 and 9 have been or are currently discharging to the lake.

Human health risks will be compared to USEPA Superfund risk management criteria as well as stated risk levels of concern identified by the Florida Department of Environmental Protection. In addition, environmental concentrations will be compared to applicable Federal and State public standards and guidelines.

The ecological risk assessment will evaluate risks associated with current and future land uses of the site and surrounding area. The current industrial use and planned future recreational use (such as a park) indicate that there is little terrestrial ecological habitat that needs to be evaluated. Terrestrial receptors will be evaluated for a future use that involves return of the area to wildlife habitat under a scenario that the area remains idle for a long period of time. It appears that the most likely exposure pathway for environmental receptors would involve discharge of contaminants via groundwater and overland flow to Lake

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Baldwin. If the RI determines that there is evidence of significant migration of contaminants from either or both sites to Lake Baldwin, then risks to aquatic receptors will be evaluated. Toxicity testing and subsampling of the benthic macroinvertebrate community will be conducted for aquatic receptors to provide complementary information to the comparison of surface water and sediment concentrations to available aquatic life criteria. Risks associated with ecological receptors will be identified by evaluating all information and drawing conclusions from a preponderance of evidence.

The two primary authors of the human health and ecological portions of the risk assessment will present the results at a meeting of the OPT. The associated travel costs are presented in Attachment C, and ODCs are provided in the Task 8 cost model in Attachment B.

**Task 9.0 Feasibility Study (WBS 11).** Upon completion of the risk assessment, an FS will be conducted to identify and evaluate appropriate remedial options. On completion of the FS, all information gathered and generated to that point will be presented to the OPT for consideration and concurrence. Then, a draft FS report will be developed. The report will include identification of remedial actions, identification and screening of technologies, and development of remedial actions. The report will also include a detailed analysis of remedial action alternatives, along with a cost estimate. After receipt of comments, the final RI/FS report will be produced.

Estimated LOE for this activity is based on experience at other Navy facilities and ABB-ES's understanding of the media of concern for each site as presented in the RI report.

<b>Study Area 8</b>	Surface soil Groundwater
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<b>Study Area 9</b>	Surface soil
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**Task 10.0 Decision Documents (WBS 12).** Draft and final decision documents, including the Proposed Plan (PP) and Record of Decision (ROD), will be prepared for OU 3. Although NTC, Orlando is not listed on the National Priorities List, the Base Realignment and Closure (BRAC) program at NTC, Orlando has been conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, and the decision documents prepared for OU 3 will be consistent with these CERCLA requirements.

First, a draft PP will be prepared for submittal along with the draft FS. The PP will recommend the preferred alternative for contaminated media at OU 3. The draft FS and draft PP will be presented at the OPT and RAB meetings. Upon receipt of formal written comments on the draft PP, a final PP will be prepared.

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Once the PP has been finalized, a public meeting will be held that will kick off the 45-day public comment period for the remedial action.

Upon receipt of comments from the public comment period, the draft ROD will be prepared. This ROD documents the chosen remedial alternative(s) for OU 3. Upon receipt of formal written comments from the OPT on the draft ROD, the ROD will be finalized and signed by the OPT.

**Task 11.0 Preliminary Design (WBS 13).** A preliminary design (10 percent) will be prepared for the chosen remedial alternative(s) at OU 3. The package will be submitted for review by the OPT.

**Task 12.0 Final Design (WBS 14).** Following comments from the OPT, ABB-ES will prepare a performance criteria and design package. The level of design will be 60 percent, the minimum level required for a document to be sealed by a professional engineer licensed in the State of Florida. This package includes a design analysis, plan drawings and specifications, and a cost estimate. Bid specifications will not be developed for this effort. The RAC contractor will be provided by the Navy, and a competitive bid package will not be required. It is assumed, in the preparation of this POA, that the submitted design plans and specifications, as budgeted in this POA, are intended to meet all of the requirements of the following documents:

- Guide for Architect-Engineer Firms Performing Services for the Southern Division, Naval Facilities Engineering Command, Charleston, South Carolina, June 1989 p. 141.
- Remedial Action Contracts Delivery Order Requirements Package Guide, Parts 1 & 2, NEESA 20.2-062, August 1992.

**Task 13.0 PCAS, Consultation and Reporting (WBS 17).** ABB-ES will provide oversight and technical support during the initiation of the selected remedial alternative. Implementation of the remedial alternative is expected to last 5 months, and during this activity ABB-ES will furnish an engineer to act as support for the RAC contractor on oversight services for the Navy's contractor. The support does not include analytical analyses or a formal written report. The LOE for this task is located in Attachment B, Cost Estimates.

### **III. PROJECT PERSONNEL**

In addition to the Program Management Office personnel, the designated managers for management and execution of this effort are as follows:

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Installation Manager. Mr. John Kaiser is the installation manager for all BRAC activities performed by ABB-ES at NTC, Orlando. As such, Mr. Kaiser will ensure that all new work performed at NTC, Orlando will be consistent with BRAC program objectives and lessons learned at NTC, Orlando.

Project Manager. The overall project management for execution of OU 3 RI/FS activities at NTC, Orlando will be shared between Mr. Richard Allen and Ms. Shannon Buckley Gleason. Both will work closely with Mr. Kaiser, who in addition to his role as Installation Manager is also the project manager for most other Installation Restoration program work at NTC, Orlando. They will be responsible for maintaining the project schedule and budget and for evaluating the appropriateness of the services provided under each task. They will also be responsible for the day-to-day conduct of work, including the integration of the input of supporting disciplines, subcontractors, and the RAC contractor, and they will review the ongoing quality control during performance of the work and the clarity and usefulness of all project work products.

Technical Leads. Mr. Richard Allen will be responsible for coordinating field investigations and will work closely with field personnel to understand site conditions and direct field tests, as well as coordinate with ABB-ES's Design Service Center to complete design plans and specifications, if needed. Ms. Maureen Dooley will be responsible for performing laboratory biodegradation testing. Ms. Dooley will direct bacterial analysis and assess intrinsic microbial conditions conducive to biodegradation. Ms. Shannon Buckley Gleason will be responsible for preparing the feasibility, decision, and design documents, and Mr. Mark Salvetti, P.E., will sign and seal applicable documents.

Technical Experts. Mr. Wayne Britton and Dr. Willard Murray, P.E., may serve as the technical experts for this project, if required. The technical experts will be responsible for the overall technical approach for the program and will work closely with the TOM and other project personnel to provide technical review, oversight, and sealing of project deliverables.

Field Operations Leader. Mr. Greg Mudd, P.G., will share the field operations leader responsibilities with Manuel Alonso, P.G. Both individuals have over 10 years of experience in geology and have served as field operations leaders at NTC, Orlando for the past year.

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#### **IV. SCHEDULE OF EVENTS**

Attachment A includes a Gantt chart that presents the proposed schedule for completion of the tasks described above. The schedule assumes a Notice to Proceed date and will be revised upon completion of negotiation to reflect any changes to that date.

#### **V. COSTS**

Attachment B presents the cost estimate to complete the scope of services described above.

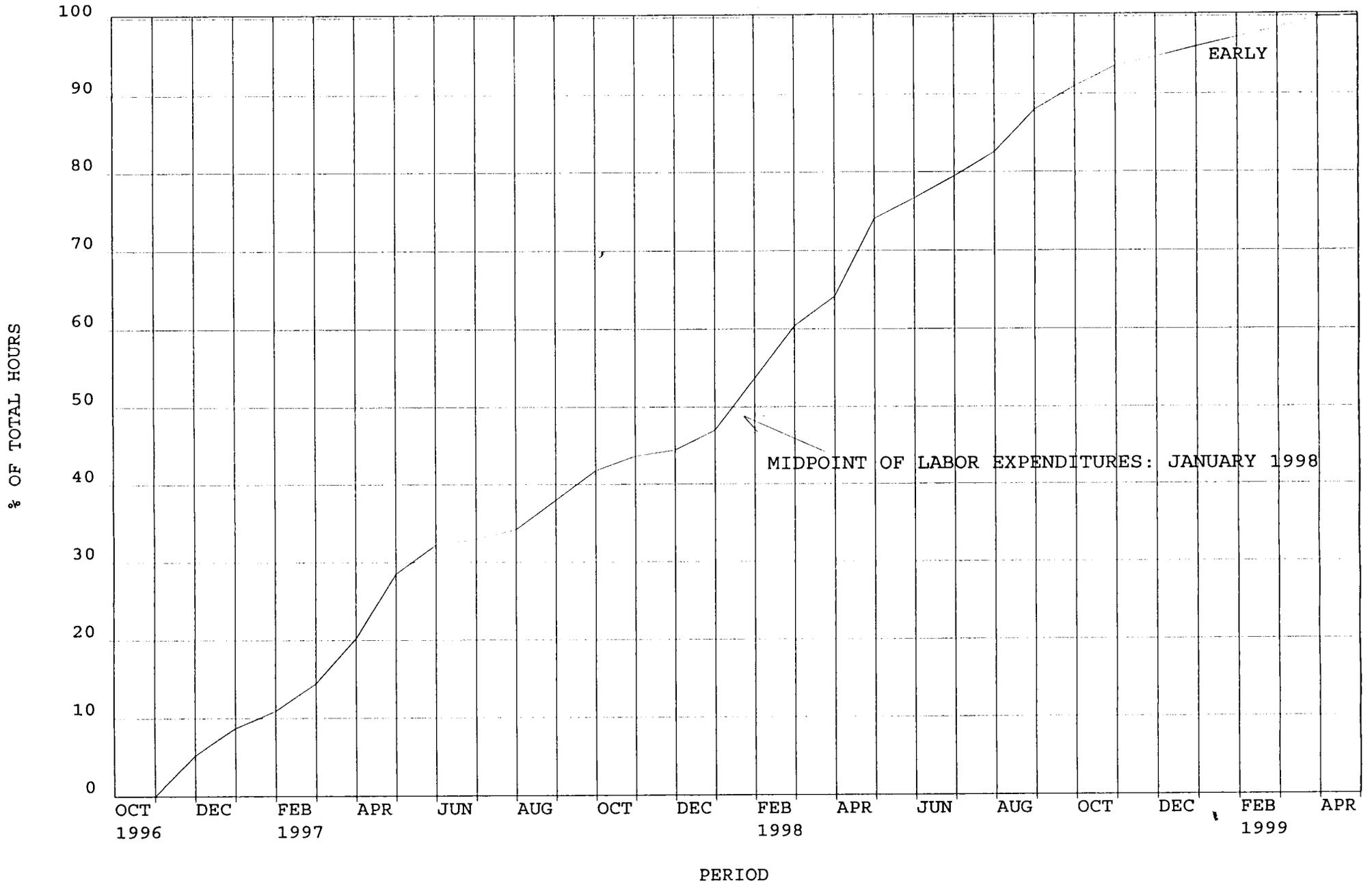
#### **VI. FEE ITEMIZATION FORM SCOPE LIMITATION**

The purpose of this paragraph is to clearly define the scope and assumptions made for this fee proposal, should it be necessary to enact provisions delineated at Part VII, Paragraph 22, of the subject contract, in accordance with Federal Acquisition Regulation 52.243-2.

Specific Parameters: as outlined in Tasks No. 1 through No. 12 of this POA, dated September 1996.

Period of Performance Parameters: costs presented are estimated to be incurred from Notice to Proceed as described in Attachment A, Project Schedule.

**ATTACHMENT A**  
**PROJECT SCHEDULE**



Project Start 17JUL96  
 Project Finish 2APR99  
 Data Date 17AUG96  
 Plot Date 12SEP96

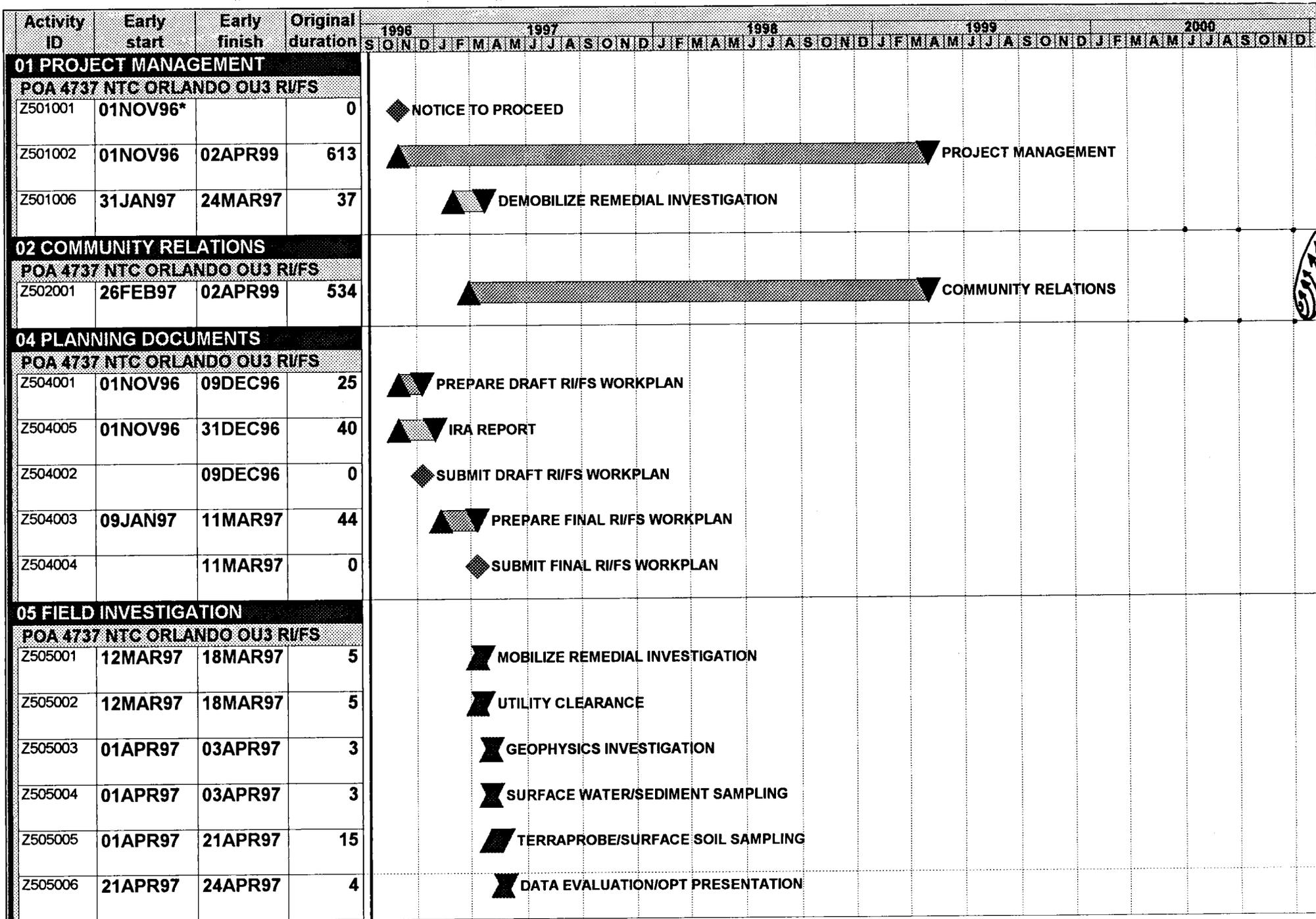
Schedule dates ROXY S737

NTC ORLANDO OU3 RI/FS  
 POA 854737  
 RESOURCE SUMMARY

Sheet 1 of 1

MIDPOINT/RESOURCE SUMMARY

Date	Revision	Checked	Approved



Project Start 17JUL96  
 Project Finish 02APR99  
 Data Date 14SEP96  
 Plot Date 08OCT96

▶ Early Bar  
 ▶ Progress Bar  
 ▶ Critical Activity

ROY:8737

NTC ORLANDO OU3 RI/FS  
 POA 854737  
 PROPOSED BASELINE SCHEDULE

Sheet 1 of 3

ABB-ES, INC. - NAVY CLEAN PROGRAM

Date	Revision	Checked	Approved

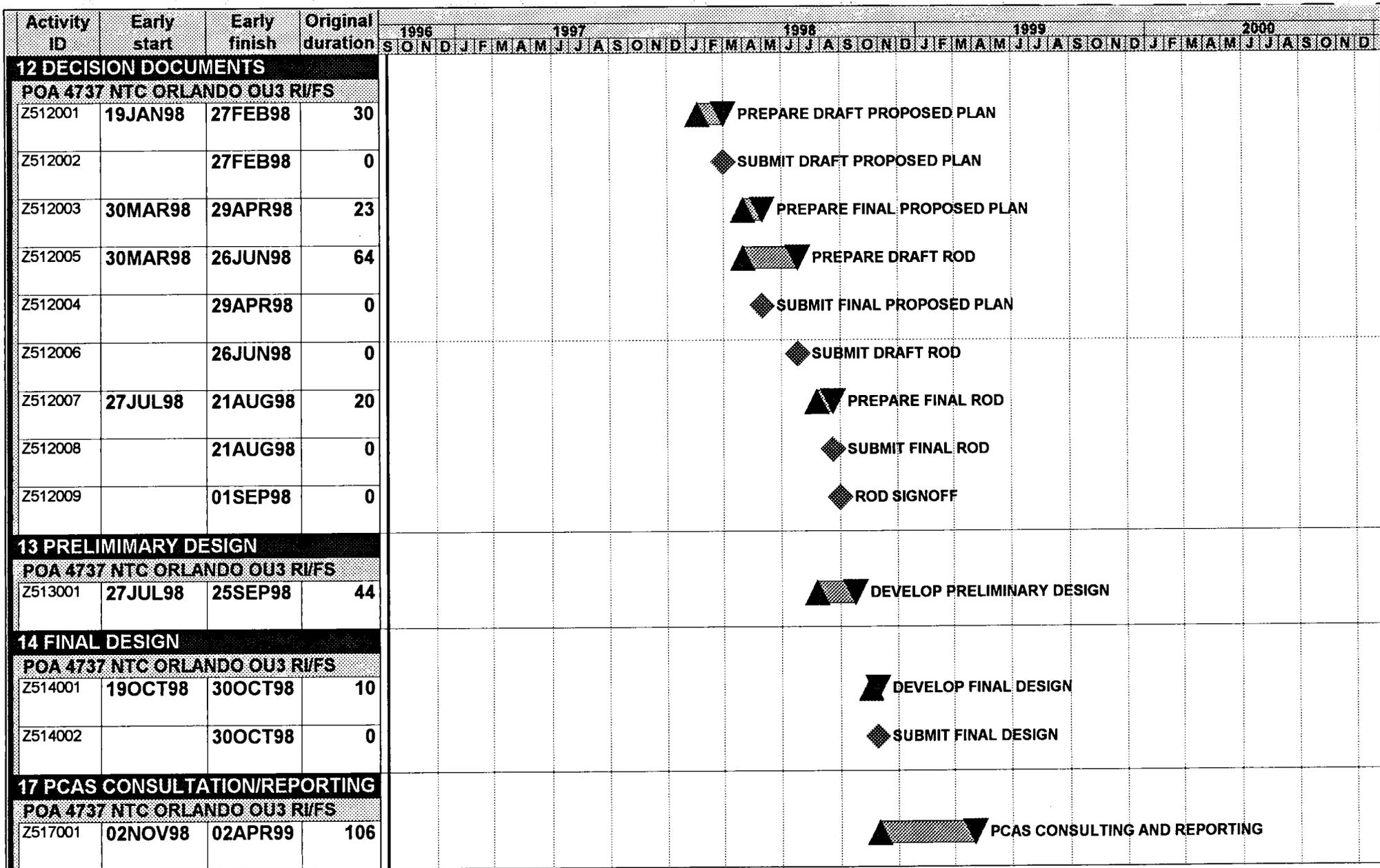
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Z511002		27FEB98	0																																																	SUBMIT DRAFT FEASIBILITY STUDY																																															
Z511003	26MAR98	29APR98	25																																																	PREPARE FINAL FEASIBILITY STUDY																																															
Z511004		29APR98	0																																																	SUBMIT FINAL FEASIBILITY STUDY																																															

Project Start	17JUL98		Early Bar
Project Finish	02APR99		Progress Bar
Data Date	14SEP98		Critical Activity
Plot Date	08OCT98		

REVY:5737

**NTC ORLANDO OU3 RI/FS  
POA 854737  
PROPOSED BASELINE SCHEDULE**

ABB-ES, INC. - NAVY CLEAN PROGRAM			
Date	Revision	Checked	Approved



Project Start 17JUL96  Early Bar  
 Project Finish 02APR99  Progress Bar  
 Data Date 14SEP96  Critical Activity  
 Plot Date 08OCT96

RY: 8737

**NTC ORLANDO OU3 RI/FS**  
**POA 854737**  
**PROPOSED BASELINE SCHEDULE**

Sheet 3 of 3

ABB-ES, INC. - NAVY CLEAN PROGRAM			
Date	Revision	Checked	Approved

**ATTACHMENT B**

**COST ESTIMATES**

**Total Costs Summary**

**TASK:**

**PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study**

**MANAGER: J. Kaiser**

**POA NUMBER: 854737**

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)	400	\$ 32.36	\$ 12,944.00	1.93	\$ 24,981.92
Quality Assurance Manager(QMF)	0	\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)	400	\$ 27.48	\$ 10,992.00	2.38	\$ 26,160.96
Health & Safety Manager (HMF)	0	\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)	24	\$ 38.32	\$ 919.68	2.38	\$ 2,188.84
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)	18	\$ 30.86	\$ 555.48	2.38	\$ 1,322.04
Senior Toxicologist (ST4F)	52	\$ 30.86	\$ 1,604.72	2.38	\$ 3,819.23
Senior Engineer (SE4)	40	\$ 30.86	\$ 1,234.40	1.93	\$ 2,382.39
Senior Engineer (SE4F)	547	\$ 30.86	\$ 16,880.42	2.38	\$ 40,175.40
Senior Scientist (SS4)	950	\$ 30.86	\$ 29,317.00	1.93	\$ 56,581.81
Senior Scientist (SS4F)	338	\$ 30.86	\$ 10,430.68	2.38	\$ 24,825.02
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)	52	\$ 25.89	\$ 1,346.28	1.93	\$ 2,598.32
Senior Toxicologist (ST3F)	70	\$ 25.89	\$ 1,812.30	2.38	\$ 4,313.27
Senior Engineer (SE3)	0	\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	1374	\$ 25.52	\$ 35,064.48	2.38	\$ 83,453.46
Senior Hydrologist (SH3)	0	\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)	178	\$ 25.89	\$ 4,608.42	2.38	\$ 10,968.04
Senior Scientist (SS3)	939	\$ 25.89	\$ 24,310.71	1.93	\$ 46,919.67
Senior Scientist (SS3F)	766	\$ 25.89	\$ 19,831.74	2.38	\$ 47,199.54
Senior Chemist (SC3)	266	\$ 25.89	\$ 6,886.74	1.93	\$ 13,291.41
<b>Engineer/Scientist</b>					
Ecologist (AP2F)	146	\$ 19.62	\$ 2,864.52	2.38	\$ 6,817.56
Engineer (EN2)	860	\$ 19.62	\$ 16,873.20	1.93	\$ 32,565.28
Engineer (EN2F)	884	\$ 19.62	\$ 17,344.08	2.38	\$ 41,278.91
Scientist (XU2)	404	\$ 19.62	\$ 7,926.48	1.93	\$ 15,298.11
Scientist (XU2F)	788	\$ 19.62	\$ 15,460.56	2.38	\$ 36,796.13
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)	84	\$ 15.85	\$ 1,331.40	2.38	\$ 3,168.73
Engineer (EN1)	27	\$ 16.85	\$ 454.95	1.93	\$ 878.05
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	511	\$ 19.10	\$ 9,760.10	1.93	\$ 18,836.99
<b>Senior Technician</b>					
Project Assistant (PA2)	1170	\$ 15.92	\$ 18,626.40	1.93	\$ 35,948.95
Project Assistant (PA2F)	200	\$ 15.92	\$ 3,184.00	2.38	\$ 7,577.92
Technician (ZGF)	16	\$ 15.31	\$ 244.96	2.38	\$ 583.00
Technician (ZG)	406	\$ 15.31	\$ 6,215.86	1.93	\$ 11,996.61
Technical Editor (TE)	213	\$ 16.24	\$ 3,459.12	1.93	\$ 6,676.10
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)	67	\$ 11.32	\$ 758.44	2.38	\$ 1,805.09
Clerk/Wordprocessor (CL)	692	\$ 11.32	\$ 7,833.44	1.93	\$ 15,118.54
Subtotal:	12882				\$ 626,527.31
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ 51,142.88	1.0545	\$ 53,930.17
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 558,460.80	1.0537	\$ 588,450.15
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ 16,923.63	1.0549	\$ 17,852.73
TOTAL LABOR:					\$ 660,233.05

**ABB ENVIRONMENTAL SERVICES, INC.**

**Total Costs Summary**

**TASK:**

**PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study**

**MANAGER: J. Kaiser**

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare	0		\$ -	1.032	\$ -
Air Fare - Offsite	26	Various	\$ 13,460.00	1.0733	\$ 14,446.62
Lodging	55	Various	\$ 3,575.00	1.032	\$ 3,689.40
Lodging - Offsite	52	Various	\$ 3,372.00	1.0733	\$ 3,619.17
Per Diem	56	\$ 34.00	\$ 1,904.00	1.032	\$ 1,964.93
Per Diem - Offsite	59	\$ 34.00	\$ 2,006.00	1.0733	\$ 2,153.04
Car Rental/Fuel	55	\$ 37.00	\$ 2,035.00	1.032	\$ 2,100.12
Car Rental/Fuel - Offsite	48	\$ 37.00	\$ 1,776.00	1.0733	\$ 1,906.18
Field Van Rental/Fuel	0	\$ 45.00	\$ -	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$ 28,128.00</b>		<b>\$ 29,879.45</b>
Telephone/Telefax	1924	\$2.20	\$ 4,232.80	1.032	\$ 4,368.25
Shipping- Letter/Other	707	\$6.75	\$ 4,772.25	1.032	\$ 4,924.96
Computer Usage	1222	\$2.862	\$ 3,497.36	1.032	\$ 3,609.28
Film Development	15	\$15.00	\$ 225.00	1.032	\$ 232.20
Shipping - Sample Cooler	72	\$90.66	\$ 6,527.52	1.032	\$ 6,736.40
Field Expendable Supplies	4	Various	\$ 31,002.42	1.032	\$ 31,994.50
Conference Calls	22	\$300.00	\$ 6,600.00	1.032	\$ 6,811.20
Copies - Internal	84500	\$0.04	\$ 3,380.00	1.032	\$ 3,488.16
Disk (3 1/2 " DSHO) bx	7	\$26.96	\$ 188.72	1.032	\$ 194.76
Report Tabs	3165	\$0.22	\$ 696.30	1.032	\$ 718.58
GC Rental	1	\$3,635.00	\$ 3,635.00	1.032	\$ 3,751.32
Binders 1"	42	\$6.95	\$ 291.90	1.032	\$ 301.24
Binders 1 1/2"	413	\$8.95	\$ 3,696.35	1.032	\$ 3,814.63
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$ 68,745.62</b>		<b>\$ 70,945.48</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services	0		\$ 24,488.00	1.032	\$ 25,271.62
Analytical Services	0		\$ 135,929.30	1.032	\$ 140,279.04
Surveying Services	0		\$ 4,160.00	1.032	\$ 4,293.12
Data Validation Services	0		\$ 10,442.50	1.032	\$ 10,776.66
Terraprobe	0		\$ 8,129.66	1.032	\$ 8,389.81
Advertising Services	0		\$ 2,400.00	1.032	\$ 2,476.80
External Copy Services	0		\$ 250.00	1.032	\$ 258.00
Toxicity Testing	0		\$ 32,800.30	1.032	\$ 33,849.91
Public Mtg Transcript Film, Frames	0		\$ 75.00	1.032	\$ 77.40
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$ 218,674.76</b>		<b>\$ 225,672.35</b>
<b>TOTAL COST:</b>					
					<b>\$ 986,730.34</b>
<b>Award Fee - Labor, Travel &amp; ODCs</b>			\$ 761,057.98	0.095	\$ 72,300.51
<b>Award Fee - Subcontract</b>			\$ 225,672.35	0.045	\$ 10,155.26
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 1,069,186.10</b>

WBS: 01

TASK: 1.0 Project Management

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIPLI	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)	400	\$ 32.36	\$ 12,944.00	1.93	\$ 24,981.92
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)	400	\$ 27.48	\$ 10,992.00	2.38	\$ 26,160.96
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)	600	\$ 30.86	\$ 18,516.00	1.93	\$ 35,735.88
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)		\$ 25.89	\$ -	1.93	\$ -
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)		\$ 19.62	\$ -	1.93	\$ -
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)		\$ 19.10	\$ -	1.93	\$ -
<b>Senior Technician</b>					
Project Assistant (PA2)	1100	\$ 15.92	\$ 17,512.00	1.93	\$ 33,798.16
Project Assistant (PA2F)	200	\$ 15.92	\$ 3,184.00	2.38	\$ 7,577.92
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)		\$ 15.31	\$ -	1.93	\$ -
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)		\$ 11.32	\$ -	1.93	\$ -
Subtotal:	2700				\$ 128,254.84
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ 51,142.88	1.0545	\$ 53,930.17
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 77,111.96	1.0537	\$ 81,252.87
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ -	1.0549	\$ -
<b>TOTAL LABOR:</b>					\$ 135,183.04

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 1.0 Project Management

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIPLI	TOTAL
Air Fare				1.032	\$ -
Air Fare - Offsite	17	Various	\$9,020.00	1.0733	\$ 9,681.17
Lodging	36	Various	\$2,340.00	1.032	\$ 2,414.88
Lodging - Offsite	34	Various	\$2,202.00	1.0733	\$ 2,363.41
Per Diem	36	\$ 34.00	\$1,224.00	1.032	\$ 1,263.17
Per Diem - Offsite	34	\$ 34.00	\$1,156.00	1.0733	\$ 1,240.73
Car Rental/Fuel	36	\$ 37.00	\$1,332.00	1.032	\$ 1,374.62
Car Rental/Fuel - Offsite	34	\$ 37.00	\$1,258.00	1.0733	\$ 1,350.21
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$18,532.00</b>		<b>\$ 19,688.19</b>
Telephone/Telefax	1110	\$2.20	\$2,442.00	1.032	\$ 2,520.14
Shipping- Letter/Other	305	\$6.75	\$2,058.75	1.032	\$ 2,124.63
Computer Usage		\$2,862	\$0.00	1.032	\$ -
Film Development	2	\$15.00	\$30.00	1.032	\$ 30.96
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls	10	\$300.00	\$3,000.00	1.032	\$ 3,096.00
Copies - Internal	7100	\$0.04	\$284.00	1.032	\$ 293.09
Disk (3 1/2 " DSHO) bx	3	\$26.96	\$80.88	1.032	\$ 83.47
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	10	\$8.95	\$89.50	1.032	\$ 92.36
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$7,985.13</b>		<b>\$ 8,240.65</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					<b>\$ 163,111.88</b>
Award Fee - Labor, Travel & ODCs			\$ 163,111.88	0.095	\$ 15,495.63
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 178,607.51</b>

WBS: 02

TASK: 02 Community Relations

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)	61	\$ 30.86	\$ 1,882.46	2.38	\$ 4,480.25
Senior Scientist (SS4)		\$ 30.86	\$ -	1.93	\$ -
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)	215	\$ 25.89	\$ 5,566.35	1.93	\$ 10,743.06
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)		\$ 19.62	\$ -	1.93	\$ -
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	40	\$ 19.10	\$ 764.00	1.93	\$ 1,474.52
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)		\$ 15.31	\$ -	1.93	\$ -
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	11	\$ 11.32	\$ 124.52	1.93	\$ 240.32
Subtotal:					\$ 16,938.15
Labor Escalation - Management/Administrative (Jan 98)					\$ -
Labor Escalation - Technical/Professional (Jan 98)					\$ 17,594.50
Labor Escalation - Clerical (Jan 98)					\$ 253.52
TOTAL LABOR:					\$ 17,848.02

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 02 Community Relations

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	\$ -
Lodging	5	Various	\$325.00	1.032	\$ 335.40
Lodging - Offsite		Various		1.0733	\$ -
Per Diem	5	\$ 34.00	\$170.00	1.032	\$ 175.44
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	\$ -
Car Rental/Fuel	5	\$ 37.00	\$185.00	1.032	\$ 190.92
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	\$ -
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$680.00</b>		<b>\$ 701.76</b>
Telephone/Telefax	40	\$2.20	\$88.00	1.032	\$ 90.82
Shipping- Letter/Other	44	\$6.75	\$297.00	1.032	\$ 306.50
Computer Usage		\$2.862	\$0.00	1.032	\$ -
Film Development	1	\$15.00	\$15.00	1.032	\$ 15.48
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls	2	\$300.00	\$600.00	1.032	\$ 619.20
Copies - Internal	2500	\$0.04	\$100.00	1.032	\$ 103.20
Disk (3 1/2 " DSHO) bx	2	\$26.96	\$53.92	1.032	\$ 55.65
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"		\$8.95	\$0.00	1.032	\$ -
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$1,153.92</b>		<b>\$ 1,190.85</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$2,400.00	1.032	\$ 2,476.80
External Copy Services			\$250.00	1.032	\$ 258.00
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$75.00	1.032	\$ 77.40
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$2,725.00</b>		<b>\$ 2,812.20</b>
<b>TOTAL COST:</b>					
					<b>\$ 22,552.83</b>
Award Fee - Labor, Travel & ODCs			\$ 19,740.63	0.095	\$ 1,875.36
Award Fee - Subcontract			\$ 2,812.20	0.045	\$ 126.55
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 24,554.74</b>

WBS: 04

TASK: 3.0 Workplan Development

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)	4	\$ 30.86	\$ 123.44	2.38	\$ 293.79
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)	76	\$ 30.86	\$ 2,345.36	2.38	\$ 5,581.96
Senior Scientist (SS4)	180	\$ 30.86	\$ 5,554.80	1.93	\$ 10,720.76
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)	52	\$ 25.89	\$ 1,346.28	1.93	\$ 2,598.32
Senior Toxicologist (ST3F)	70	\$ 25.89	\$ 1,812.30	2.38	\$ 4,313.27
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)	40	\$ 25.89	\$ 1,035.60	2.38	\$ 2,464.73
Senior Scientist (SS3)	280	\$ 25.89	\$ 7,249.20	1.93	\$ 13,990.96
Senior Scientist (SS3F)	300	\$ 25.89	\$ 7,767.00	2.38	\$ 18,485.46
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	174	\$ 19.62	\$ 3,413.88	1.93	\$ 6,588.79
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)	8	\$ 19.62	\$ 156.96	1.93	\$ 302.93
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	104	\$ 19.10	\$ 1,986.40	1.93	\$ 3,833.75
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	8	\$ 15.31	\$ 122.48	1.93	\$ 236.39
Technical Editor (TE)	76	\$ 16.24	\$ 1,234.24	1.93	\$ 2,382.08
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	80	\$ 11.32	\$ 905.60	1.93	\$ 1,747.81
Subtotal:	1452				\$ 73,541.00
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ -	1.0545	\$ -
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 71,793.19	1.0537	\$ 75,648.48
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ 1,747.81	1.0549	\$ 1,843.76
TOTAL LABOR:					\$ 77,492.25

**ABB ENVIRONMENTAL SERVICES, INC.**

**TASK: 3.0 Workplan Development**

**PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study**

**MANAGER: J. Kaiser**

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL	
Air Fare			\$0.00	1.032	\$ -	0
Air Fare - Offsite	1	Various	\$576.00	1.0733	\$ 618.22	14446.62
Lodging		Various		1.032	\$ -	3689.4
Lodging - Offsite	3	Various	\$195.00	1.0733	\$ 209.29	3619.168
Per Diem		\$ 34.00	\$0.00	1.032	\$ -	1964.928
Per Diem - Offsite	4	\$ 34.00	\$136.00	1.0733	\$ 145.97	2153.04
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -	2100.12
Car Rental/Fuel - Offsite	3	\$ 37.00	\$111.00	1.0733	\$ 119.14	1906.181
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -	0
<b>TOTAL TRAVEL:</b>			<b>\$1,018.00</b>		<b>\$ 1,092.62</b>	<b>29879.45</b>
Telephone/Telefax	128	\$2.20	\$281.60	1.032	\$ 290.61	
Shipping - Letter/Other	130	\$6.75	\$877.50	1.032	\$ 905.58	
Computer Usage	80	\$2.862	\$228.96	1.032	\$ 236.29	
Film Development		\$15.00	\$0.00	1.032	\$ -	
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -	
Field Expendable Supplies		Various		1.032	\$ -	
Conference Calls	2	\$300.00	\$600.00	1.032	\$ 619.20	
Copies - Internal	9800	\$0.04	\$392.00	1.032	\$ 404.54	
Disk (3 1/2 " DSHO) bx	2	\$26.96	\$53.92	1.032	\$ 55.65	
Report Tabs	990	\$0.22	\$217.80	1.032	\$ 224.77	
GC Rental		\$3,635.00	\$0.00	1.032	\$ -	
Binders 1"	42	\$6.95	\$291.90	1.032	\$ 301.24	
Binders 1 1/2"	90	\$8.95	\$805.50	1.032	\$ 831.28	
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$3,749.18</b>		<b>\$ 3,869.15</b>	
<b>TOTAL ODC AND TRAVEL</b>						
Drilling Services			\$0.00	1.032	\$ -	
Analytical Services			\$0.00	1.032	\$ -	
Surveying Services			\$0.00	1.032	\$ -	
Data Validation Services			\$0.00	1.032	\$ -	
Terraprobe			\$0.00	1.032	\$ -	
Advertising Services			\$0.00	1.032	\$ -	
External Copy Services			\$0.00	1.032	\$ -	
Toxicity Testing			\$0.00	1.032	\$ -	
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -	
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>	
<b>TOTAL COST:</b>						
					<b>\$ 82,454.02</b>	
<b>Award Fee - Labor, Travel &amp; ODCs</b>			<b>\$ 82,454.02</b>	<b>0.095</b>	<b>\$ 7,833.13</b>	
<b>Award Fee - Subcontract</b>			<b>\$ -</b>	<b>0.045</b>	<b>\$ -</b>	
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 90,287.15</b>	

WBS: 05

TASK: 04 Fieldwork

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)	24	\$ 30.86	\$ 740.64	1.93	\$ 1,429.44
Senior Scientist (SS4F)	50	\$ 30.86	\$ 1,543.00	2.38	\$ 3,672.34
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	8	\$ 25.52	\$ 204.16	2.38	\$ 485.90
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)	200	\$ 25.89	\$ 5,178.00	1.93	\$ 9,993.54
Senior Scientist (SS3F)	168	\$ 25.89	\$ 4,349.52	2.38	\$ 10,351.86
Senior Chemist (SC3)	16	\$ 25.89	\$ 414.24	1.93	\$ 799.48
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	340	\$ 19.62	\$ 6,670.80	1.93	\$ 12,874.64
Engineer (EN2F)	300	\$ 19.62	\$ 5,886.00	2.38	\$ 14,008.68
Scientist (XU2)	100	\$ 19.62	\$ 1,962.00	1.93	\$ 3,786.66
Scientist (XU2F)	380	\$ 19.62	\$ 7,455.60	2.38	\$ 17,744.33
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)		\$ 19.10	\$ -	1.93	\$ -
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	210	\$ 15.31	\$ 3,215.10	1.93	\$ 6,205.14
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	4	\$ 11.32	\$ 45.28	1.93	\$ 87.39
Subtotal:	1800				\$ 81,439.40
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ -	1.0545	\$ -
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 81,352.01	1.0537	\$ 85,720.61
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ 87.39	1.0549	\$ 92.19
TOTAL LABOR:					\$ 85,812.80

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 04 Fieldwork

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite	3	Various	\$1,480.00	1.0733	\$ 1,588.48
Lodging	13	Various	\$845.00	1.032	\$ 872.04
Lodging - Offsite	7	Various	\$455.00	1.0733	\$ 488.35
Per Diem	14	\$ 34.00	\$476.00	1.032	\$ 491.23
Per Diem - Offsite	8	\$ 34.00	\$272.00	1.0733	\$ 291.94
Car Rental/Fuel	13	\$ 37.00	\$481.00	1.032	\$ 496.39
Car Rental/Fuel - Offsite	7	\$ 37.00	\$259.00	1.0733	\$ 277.98
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$4,268.00</b>		<b>\$ 4,506.42</b>
Telephone/Telefax	155	\$2.20	\$341.00	1.032	\$ 351.91
Shipping- Letter/Other	16	\$6.75	\$108.00	1.032	\$ 111.46
Computer Usage	32	\$2.862	\$91.58	1.032	\$ 94.51
Film Development	2	\$15.00	\$30.00	1.032	\$ 30.96
Shipping - Sample Cooler	71	\$90.66	\$6,436.86	1.032	\$ 6,642.84
Field Expendable Supplies	1	Various	\$30,000.00	1.032	\$ 30,960.00
Conference Calls	3	\$300.00	\$900.00	1.032	\$ 928.80
Copies - Internal	750	\$0.04	\$30.00	1.032	\$ 30.96
Disk (3 1/2" DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental	1	\$3,635.00	\$3,635.00	1.032	\$ 3,751.32
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	6	\$8.95	\$53.70	1.032	\$ 55.42
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$41,626.14</b>		<b>\$ 42,958.18</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$24,488.00	1.032	\$ 25,271.62
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$4,160.00	1.032	\$ 4,293.12
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$8,129.66	1.032	\$ 8,389.81
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$36,777.66</b>		<b>\$ 37,954.55</b>
<b>TOTAL COST:</b>					
					<b>\$ 171,231.95</b>
Award Fee - Labor, Travel & ODCs			\$ 133,277.41	0.095	\$ 12,661.35
Award Fee - Subcontract			\$ 37,954.55	0.045	\$ 1,707.95
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 185,601.26</b>

WBS: 06

TASK: 05 Laboratory Analysis

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)		\$ 30.86	\$ -	1.93	\$ -
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)		\$ 25.89	\$ -	1.93	\$ -
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)		\$ 19.62	\$ -	1.93	\$ -
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)		\$ 19.10	\$ -	1.93	\$ -
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)		\$ 15.31	\$ -	1.93	\$ -
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)		\$ 11.32	\$ -	1.93	\$ -
Subtotal:	0				\$ -
Labor Escalation - Management/Administrative (Jan 98)			\$ -	1.0545	\$ -
Labor Escalation - Technical/Professional (Jan 98)			\$ -	1.0537	\$ -
Labor Escalation - Clerical (Jan 98)			\$ -	1.0549	\$ -
TOTAL LABOR:					\$ -

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 05 Laboratory Analysis

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax		\$2.20	\$0.00	1.032	\$ -
Shipping- Letter/Other		\$6.75	\$0.00	1.032	\$ -
Computer Usage		\$2.862	\$0.00	1.032	\$ -
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal		\$0.04	\$0.00	1.032	\$ -
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"		\$8.95	\$0.00	1.032	\$ -
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$135,929.30	1.032	\$ 140,279.04
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$135,929.30</b>		<b>\$ 140,279.04</b>
<b>TOTAL COST:</b>					
					<b>\$ 140,279.04</b>
Award Fee - Labor, Travel & ODCs		\$ -		0.095	\$ -
Award Fee - Subcontract		\$ 140,279.04		0.045	\$ 6,312.56
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 146,591.59</b>

WBS: 07

TASK: 06 Data Validation

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)		\$ 30.86	\$ -	1.93	\$ -
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)		\$ 25.89	\$ -	1.93	\$ -
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)		\$ 19.62	\$ -	1.93	\$ -
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)		\$ 19.10	\$ -	1.93	\$ -
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)		\$ 15.31	\$ -	1.93	\$ -
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)		\$ 11.32	\$ -	1.93	\$ -
Subtotal:	0				\$ -
Labor Escalation - Management/Administrative (Jan 98)			\$ -	1.0545	\$ -
Labor Escalation - Technical/Professional (Jan 98)			\$ -	1.0537	\$ -
Labor Escalation - Clerical (Jan 98)			\$ -	1.0549	\$ -
TOTAL LABOR:					\$ -

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 06 Data Validation

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	\$ -
Lodging	1	Various	\$65.00	1.032	\$ 67.08
Lodging - Offsite		Various		1.0733	\$ -
Per Diem	1	\$ 34.00	\$34.00	1.032	\$ 35.09
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	\$ -
Car Rental/Fuel	1	\$ 37.00	\$37.00	1.032	\$ 38.18
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	\$ -
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$136.00</b>		<b>\$ 140.35</b>
Telephone/Telefax	15	\$2.20	\$33.00	1.032	\$ 34.06
Shipping- Letter/Other	5	\$6.75	\$33.75	1.032	\$ 34.83
Computer Usage	40	\$2,862	\$114.48	1.032	\$ 118.14
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal	400	\$0.04	\$16.00	1.032	\$ 16.51
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"		\$8.95	\$0.00	1.032	\$ -
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$197.23</b>		<b>\$ 203.54</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$10,442.50	1.032	\$ 10,776.66
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$10,442.50</b>		<b>\$ 10,776.66</b>
<b>TOTAL COST:</b>					
					<b>\$ 11,120.55</b>
Award Fee - Labor, Travel & ODCs			\$ 343.89	0.095	\$ 32.67
Award Fee - Subcontract			\$ 10,776.66	0.045	\$ 484.95
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 11,638.17</b>

WBS: 09

TASK: 07 RI Report

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)	118	\$ 30.86	\$ 3,641.48	1.93	\$ 7,028.06
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)	90	\$ 25.89	\$ 2,330.10	1.93	\$ 4,497.09
Senior Scientist (SS3F)	170	\$ 25.89	\$ 4,401.30	2.38	\$ 10,475.09
Senior Chemist (SC3)	170	\$ 25.89	\$ 4,401.30	1.93	\$ 8,494.51
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)		\$ 19.62	\$ -	1.93	\$ -
Engineer (EN2F)	160	\$ 19.62	\$ 3,139.20	2.38	\$ 7,471.30
Scientist (XU2)	280	\$ 19.62	\$ 5,493.60	1.93	\$ 10,602.65
Scientist (XU2F)	200	\$ 19.62	\$ 3,924.00	2.38	\$ 9,339.12
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	50	\$ 19.10	\$ 955.00	1.93	\$ 1,843.15
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	73	\$ 15.31	\$ 1,117.63	1.93	\$ 2,157.03
Technical Editor (TE)	36	\$ 16.24	\$ 584.64	1.93	\$ 1,128.36
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	100	\$ 11.32	\$ 1,132.00	1.93	\$ 2,184.76
Subtotal:	1447				\$ 65,221.11
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ -	1.0545	\$ -
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 63,036.35	1.0537	\$ 66,421.40
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ 2,184.76	1.0549	\$ 2,304.70
TOTAL LABOR:					\$ 68,726.10

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 07 RI Report

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax	58	\$2.20	\$127.60	1.032	\$ 131.68
Shipping- Letter/Other	49	\$6.75	\$330.75	1.032	\$ 341.33
Computer Usage	100	\$2.862	\$286.20	1.032	\$ 295.36
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls	2	\$300.00	\$600.00	1.032	\$ 619.20
Copies - Internal	17600	\$0.04	\$704.00	1.032	\$ 726.53
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs	1100	\$0.22	\$242.00	1.032	\$ 249.74
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	131	\$8.95	\$1,172.45	1.032	\$ 1,209.97
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$3,463.00</b>		<b>\$ 3,573.82</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					
					<b>\$ 72,299.92</b>
Award Fee - Labor, Travel & ODCs			\$ 72,299.92	0.095	\$ 6,868.49
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 79,168.41</b>

WBS: 08

TASK: 08 Human Health and Ecological Assessment

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)	24	\$ 38.32	\$ 919.68	2.38	\$ 2,188.84
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)	18	\$ 30.86	\$ 555.48	2.38	\$ 1,322.04
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)		\$ 30.86	\$ -	1.93	\$ -
Senior Scientist (SS4F)	248	\$ 30.86	\$ 7,653.28	2.38	\$ 18,214.81
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)	90	\$ 25.89	\$ 2,330.10	2.38	\$ 5,545.64
Senior Scientist (SS3)		\$ 25.89	\$ -	1.93	\$ -
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)	146	\$ 19.62	\$ 2,864.52	2.38	\$ 6,817.56
Engineer (EN2)		\$ 19.62	\$ -	1.93	\$ -
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)	192	\$ 19.62	\$ 3,767.04	2.38	\$ 8,965.56
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)	84	\$ 15.85	\$ 1,331.40	2.38	\$ 3,168.73
Engineer (EN1)	27	\$ 16.85	\$ 454.95	1.93	\$ 878.05
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)		\$ 19.10	\$ -	1.93	\$ -
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)	16	\$ 15.31	\$ 244.96	2.38	\$ 583.00
Technician (ZG)	57	\$ 15.31	\$ 872.67	1.93	\$ 1,684.25
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)	67	\$ 11.32	\$ 758.44	2.38	\$ 1,805.09
Clerk/Wordprocessor (CL)		\$ 11.32	\$ -	1.93	\$ -
Subtotal:	969				\$ 51,173.57
Labor Escalation - Management/Administrative (Jan 98)			\$ -	1.0545	\$ -
Labor Escalation - Technical/Professional (Jan 98)			\$ 49,368.48	1.0537	\$ 52,019.57
Labor Escalation - Clerical (Jan 98)			\$ 1,805.09	1.0549	\$ 1,904.19
TOTAL LABOR:					\$ 53,923.76

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 08 Human Health and Ecological Assessment  
 PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study  
 MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite	5	Various	\$2,384.00	1.0733	\$ 2,558.75
Lodging		Various		1.032	\$ -
Lodging - Offsite	8	Various	\$520.00	1.0733	\$ 558.12
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite	13	\$ 34.00	\$442.00	1.0733	\$ 474.40
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite	4	\$ 37.00	\$148.00	1.0733	\$ 158.85
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$3,494.00</b>		<b>\$ 3,750.11</b>
Telephone/Telefax	30	\$2.20	\$66.00	1.032	\$ 68.11
Shipping- Letter/Other	9	\$6.75	\$60.75	1.032	\$ 62.69
Computer Usage	360	\$2.862	\$1,030.32	1.032	\$ 1,063.29
Film Development	2	\$15.00	\$30.00	1.032	\$ 30.96
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies	1	Various	\$121.71	1.032	\$ 125.60
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal	1200	\$0.04	\$48.00	1.032	\$ 49.54
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"		\$8.95	\$0.00	1.032	\$ -
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$1,356.78</b>		<b>\$ 1,400.20</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$32,800.30	1.032	\$ 33,849.91
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$32,800.30</b>		<b>\$ 33,849.91</b>
<b>TOTAL COST:</b>					
					<b>\$ 92,923.97</b>
Award Fee - Labor, Travel & ODCs			\$ 59,074.06	0.095	\$ 5,612.04
Award Fee - Subcontract			\$ 33,849.91	0.045	\$ 1,523.25
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 100,059.25</b>

WBS: 11

TASK: 10 Feasibility Study

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)	48	\$ 30.86	\$ 1,481.28	2.38	\$ 3,525.45
Senior Engineer (SE4)	40	\$ 30.86	\$ 1,234.40	1.93	\$ 2,382.39
Senior Engineer (SE4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Scientist (SS4)	20	\$ 30.86	\$ 617.20	1.93	\$ 1,191.20
Senior Scientist (SS4F)	40	\$ 30.86	\$ 1,234.40	2.38	\$ 2,937.87
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	828	\$ 25.52	\$ 21,130.56	2.38	\$ 50,290.73
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)	48	\$ 25.89	\$ 1,242.72	2.38	\$ 2,957.67
Senior Scientist (SS3)	108	\$ 25.89	\$ 2,796.12	1.93	\$ 5,396.51
Senior Scientist (SS3F)	128	\$ 25.89	\$ 3,313.92	2.38	\$ 7,887.13
Senior Chemist (SC3)	80	\$ 25.89	\$ 2,071.20	1.93	\$ 3,997.42
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	16	\$ 19.62	\$ 313.92	1.93	\$ 605.87
Engineer (EN2F)	424	\$ 19.62	\$ 8,318.88	2.38	\$ 19,798.93
Scientist (XU2)	16	\$ 19.62	\$ 313.92	1.93	\$ 605.87
Scientist (XU2F)	16	\$ 19.62	\$ 313.92	2.38	\$ 747.13
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	105	\$ 19.10	\$ 2,005.50	1.93	\$ 3,870.62
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	32	\$ 15.31	\$ 489.92	1.93	\$ 945.55
Technical Editor (TE)	56	\$ 16.24	\$ 909.44	1.93	\$ 1,755.22
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	280	\$ 11.32	\$ 3,169.60	1.93	\$ 6,117.33
Subtotal:	2285				\$ 115,012.87
Labor Escalation - Management/Administrative (Jan 98)			\$ -	1.0545	\$ -
Labor Escalation - Technical/Professional (Jan 98)			\$ 108,895.55	1.0537	\$ 114,743.24
Labor Escalation - Clerical (Jan 98)			\$ 6,117.33	1.0549	\$ 6,453.17
TOTAL LABOR:					\$ 121,196.41

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 10 Feasibility Study

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	\$ -
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	\$ -
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	\$ -
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	\$ -
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax	50	\$2.20	\$110.00	1.032	\$ 113.52
Shipping- Letter/Other	25	\$6.75	\$168.75	1.032	\$ 174.15
Computer Usage	300	\$2,862	\$858.60	1.032	\$ 886.08
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies	1	Various	\$481.93	1.032	\$ 497.35
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal	22000	\$0.04	\$880.00	1.032	\$ 908.16
Disk (3 1/2" DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs	525	\$0.22	\$115.50	1.032	\$ 119.20
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	66	\$8.95	\$590.70	1.032	\$ 609.60
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$3,205.48</b>		<b>\$ 3,308.06</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services				1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					
					<b>\$ 124,504.46</b>
Award Fee - Labor, Travel & ODCs			\$ 124,504.46	0.095	\$ 11,827.92
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 136,332.38</b>

WBS: 12

TASK: 11 Decision Document

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)	12	\$ 30.86	\$ 370.32	2.38	\$ 881.36
Senior Scientist (SS4)		\$ 30.86	\$ -	1.93	\$ -
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	240	\$ 25.52	\$ 6,124.80	2.38	\$ 14,577.02
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)	30	\$ 25.89	\$ 776.70	1.93	\$ 1,499.03
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	80	\$ 19.62	\$ 1,569.60	1.93	\$ 3,029.33
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	52	\$ 19.10	\$ 993.20	1.93	\$ 1,916.88
<b>Senior Technician</b>					
Project Assistant (PA2)	70	\$ 15.92	\$ 1,114.40	1.93	\$ 2,150.79
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	18	\$ 15.31	\$ 275.58	1.93	\$ 531.87
Technical Editor (TE)	24	\$ 16.24	\$ 389.76	1.93	\$ 752.24
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	72	\$ 11.32	\$ 815.04	1.93	\$ 1,573.03
Subtotal:	598				\$ 26,911.55
Labor Escalation - Management/Administrative (Jan 98)			\$ -	1.0545	\$ -
Labor Escalation - Technical/Professional (Jan 98)			\$ 25,338.52	1.0537	\$ 26,699.20
Labor Escalation - Clerical (Jan 98)			\$ 1,573.03	1.0549	\$ 1,659.39
TOTAL LABOR:					\$ 28,358.58

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 11 Decision Document  
 PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study  
 MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax	78	\$2.20	\$171.60	1.032	\$ 177.09
Shipping- Letter/Other	28	\$6.75	\$189.00	1.032	\$ 195.05
Computer Usage	80	\$2.862	\$228.96	1.032	\$ 236.29
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls	3	\$300.00	\$900.00	1.032	\$ 928.80
Copies - Internal	3400	\$0.04	\$136.00	1.032	\$ 140.35
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs		\$0.22	\$0.00	1.032	\$ -
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"		\$8.95	\$0.00	1.032	\$ -
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$1,625.56</b>		<b>\$ 1,677.58</b>
<b>TOTAL GDC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					
					<b>\$ 30,036.16</b>
Award Fee - Labor, Travel & ODCs			\$ 30,036.16	0.095	\$ 2,853.44
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 32,889.60</b>

WBS: 13

TASK: 12 Preliminary Design

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)	269	\$ 30.86	\$ 8,301.34	2.38	\$ 19,757.19
Senior Scientist (SS4)	4	\$ 30.86	\$ 123.44	1.93	\$ 238.24
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	134	\$ 25.52	\$ 3,419.68	2.38	\$ 8,138.84
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)		\$ 25.89	\$ -	1.93	\$ -
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	150	\$ 19.62	\$ 2,943.00	1.93	\$ 5,679.99
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	96	\$ 19.10	\$ 1,833.60	1.93	\$ 3,538.85
<b>Senior Technician</b>					
Project Assistant (PA2)	0	\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	4	\$ 15.31	\$ 61.24	1.93	\$ 118.19
Technical Editor (TE)	8	\$ 16.24	\$ 129.92	1.93	\$ 250.75
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	64	\$ 11.32	\$ 724.48	1.93	\$ 1,398.25
Subtotal:	729				\$ 39,120.29
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ -	1.0545	\$ -
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 37,722.04	1.0537	\$ 39,747.72
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ 1,398.25	1.0549	\$ 1,475.01
TOTAL LABOR:					\$ 41,222.73

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 12 Preliminary Design

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax	72	\$2.20	\$158.40	1.032	\$ 163.47
Shipping- Letter/Other	27	\$6.75	\$182.25	1.032	\$ 188.08
Computer Usage	87	\$2.862	\$248.99	1.032	\$ 256.96
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal	7400	\$0.04	\$296.00	1.032	\$ 305.47
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs	120	\$0.22	\$26.40	1.032	\$ 27.24
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	24	\$8.95	\$214.80	1.032	\$ 221.67
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$1,126.84</b>		<b>\$ 1,162.90</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					
					<b>\$ 42,385.63</b>
Award Fee - Labor, Travel & ODCs			\$ 42,385.63	0.095	\$ 4,026.63
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 46,412.27</b>

WBS: 14

TASK: 13 Final Design

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 38.32	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.86	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.86	\$ -	1.93	\$ -
Senior Engineer (SE4F)	49	\$ 30.86	\$ 1,512.14	2.38	\$ 3,598.89
Senior Scientist (SS4)		\$ 30.86	\$ -	1.93	\$ -
Senior Scientist (SS4F)		\$ 30.86	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.89	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	64	\$ 25.52	\$ 1,633.28	2.38	\$ 3,887.21
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)		\$ 25.89	\$ -	1.93	\$ -
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	60	\$ 19.62	\$ 1,177.20	1.93	\$ 2,272.00
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	38	\$ 19.10	\$ 725.80	1.93	\$ 1,400.79
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)		\$ 15.31	\$ -	1.93	\$ -
Technical Editor (TE)		\$ 16.24	\$ -	1.93	\$ -
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	25	\$ 11.32	\$ 283.00	1.93	\$ 546.19
Subtotal:	236				\$ 11,705.08
<b>Labor Escalation - Management/Administrative (Jan 98)</b>					
			\$ -	1.0545	\$ -
<b>Labor Escalation - Technical/Professional (Jan 98)</b>					
			\$ 11,158.89	1.0537	\$ 11,758.12
<b>Labor Escalation - Clerical (Jan 98)</b>					
			\$ 546.19	1.0549	\$ 576.18
TOTAL LABOR:					\$ 12,334.30

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 13 Final Design

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax	52	\$2.20	\$114.40	1.032	\$ 118.06
Shipping- Letter/Other	27	\$6.75	\$182.25	1.032	\$ 188.08
Computer Usage	71	\$2.862	\$203.20	1.032	\$ 209.70
Film Development		\$15.00	\$0.00	1.032	\$ -
Shipping - Sample Cooler		\$90.66	\$0.00	1.032	\$ -
Field Expendable Supplies		Various		1.032	\$ -
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal	8100	\$0.04	\$324.00	1.032	\$ 334.37
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs	210	\$0.22	\$46.20	1.032	\$ 47.68
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	42	\$8.95	\$375.90	1.032	\$ 387.93
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$1,245.95</b>		<b>\$ 1,285.82</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					
					<b>\$ 13,620.12</b>
Award Fee - Labor, Travel & ODCs			\$ 13,620.12	0.095	\$ 1,293.91
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 14,914.03</b>

WBS: 17

TASK: 14 PCAS, Consultation and Reporting

PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study

MANAGER: J. Kaiser

POA NUMBER: 854737

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
<b>Sr. Project Manager</b>					
Task Order Manager (TM4)		\$ 32.36	\$ -	1.93	\$ -
Quality Assurance Manager(QMF)		\$ 30.55	\$ -	2.38	\$ -
<b>Project Manager</b>					
Task Order Manager (TM3F)		\$ 27.48	\$ -	2.38	\$ -
Health & Safety Manager (HMF)		\$ 27.48	\$ -	2.38	\$ -
<b>Sr. Consulting Engineer/Scientist</b>					
Technical Expert (EX2F)		\$ 30.55	\$ -	2.38	\$ -
<b>Principal Engineer/Scientist</b>					
Senior Ecologist (SL4F)		\$ 30.55	\$ -	2.38	\$ -
Senior Toxicologist (ST4F)		\$ 30.55	\$ -	2.38	\$ -
Senior Engineer (SE4)		\$ 30.55	\$ -	1.93	\$ -
Senior Engineer (SE4F)	80	\$ 30.55	\$ 2,444.00	2.38	\$ 5,875.74
Senior Scientist (SS4)	4	\$ 30.55	\$ 122.20	1.93	\$ 238.24
Senior Scientist (SS4F)		\$ 30.55	\$ -	2.38	\$ -
<b>Senior Engineer/Scientist</b>					
Senior Toxicologist (ST3)		\$ 25.52	\$ -	1.93	\$ -
Senior Toxicologist (ST3F)		\$ 25.52	\$ -	2.38	\$ -
Senior Engineer (SE3)		\$ 25.52	\$ -	1.93	\$ -
Senior Engineer (SE3F)	100	\$ 25.52	\$ 2,552.00	2.38	\$ 6,073.76
Senior Hydrologist (SH3)		\$ 25.89	\$ -	1.93	\$ -
Senior Ecologist-Offsite (SL3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Scientist (SS3)	16	\$ 25.89	\$ 414.24	1.93	\$ 799.48
Senior Scientist (SS3F)		\$ 25.89	\$ -	2.38	\$ -
Senior Chemist (SC3)		\$ 25.89	\$ -	1.93	\$ -
<b>Engineer/Scientist</b>					
Ecologist (AP2F)		\$ 19.62	\$ -	2.38	\$ -
Engineer (EN2)	40	\$ 19.62	\$ 784.80	1.93	\$ 1,514.66
Engineer (EN2F)		\$ 19.62	\$ -	2.38	\$ -
Scientist (XU2)		\$ 19.62	\$ -	1.93	\$ -
Scientist (XU2F)		\$ 19.62	\$ -	2.38	\$ -
<b>Associate Engineer/Scientist</b>					
Scientist (XU1F)		\$ 15.85	\$ -	2.38	\$ -
Engineer (EN1)		\$ 16.85	\$ -	1.93	\$ -
<b>Designer</b>					
CAD Operator/Sr. Draftsperson (CD)	26	\$ 19.10	\$ 496.60	1.93	\$ 958.44
<b>Senior Technician</b>					
Project Assistant (PA2)		\$ 15.92	\$ -	1.93	\$ -
Project Assistant (PA2F)		\$ 15.92	\$ -	2.38	\$ -
Technician (ZGF)		\$ 15.31	\$ -	2.38	\$ -
Technician (ZG)	4	\$ 15.31	\$ 61.24	1.93	\$ 118.19
Technical Editor (TE)	13	\$ 16.24	\$ 211.12	1.93	\$ 407.46
<b>Clerical</b>					
Clerk/Wordprocessor (CLF)		\$ 11.32	\$ -	2.38	\$ -
Clerk/Wordprocessor (CL)	56	\$ 11.32	\$ 633.92	1.93	\$ 1,223.47
Subtotal:					\$ 17,209.45
Labor Escalation - Management/Administrative (Jan 98)					\$ -
Labor Escalation - Technical/Professional (Jan 98)					\$ 15,985.98
Labor Escalation - Clerical (Jan 98)					\$ 1,223.47
TOTAL LABOR:					\$ 18,135.06

ABB ENVIRONMENTAL SERVICES, INC.

TASK: 14 PCAS, Consultation and Reporting  
 PROJECT: Revised OU3 Remedial Investigation/ Feasibility Study  
 MANAGER: J. Kaiser

DESCRIPTION	BASE	RATE	SUBTOTAL	MULTIP	TOTAL
Air Fare			\$0.00	1.032	\$ -
Air Fare - Offsite		Various		1.0733	
Lodging		Various		1.032	\$ -
Lodging - Offsite		Various		1.0733	
Per Diem		\$ 34.00	\$0.00	1.032	\$ -
Per Diem - Offsite		\$ 34.00	\$0.00	1.0733	
Car Rental/Fuel		\$ 37.00	\$0.00	1.032	\$ -
Car Rental/Fuel - Offsite		\$ 37.00	\$0.00	1.0733	
Field Van Rental/Fuel		\$ 45.00	\$0.00	1.032	\$ -
<b>TOTAL TRAVEL:</b>			<b>\$0.00</b>		<b>\$ -</b>
Telephone/Telefax	136	\$2.20	\$299.20	1.032	\$ 308.77
Shipping- Letter/Other	42	\$6.75	\$283.50	1.032	\$ 292.57
Computer Usage	72	\$2.862	\$206.06	1.032	\$ 212.66
Film Development	8	\$15.00	\$120.00	1.032	\$ 123.84
Shipping - Sample Cooler	1	\$90.66	\$90.66	1.032	\$ 93.56
Field Expendable Supplies	1	Various	\$398.78	1.032	\$ 411.54
Conference Calls		\$300.00	\$0.00	1.032	\$ -
Copies - Internal	4250	\$0.04	\$170.00	1.032	\$ 175.44
Disk (3 1/2 " DSHO) bx		\$26.96	\$0.00	1.032	\$ -
Report Tabs	220	\$0.22	\$48.40	1.032	\$ 49.95
GC Rental		\$3,635.00	\$0.00	1.032	\$ -
Binders 1"		\$6.95	\$0.00	1.032	\$ -
Binders 1 1/2"	44	\$8.95	\$393.80	1.032	\$ 406.40
<b>TOTAL OTHER DIRECT COSTS:</b>			<b>\$2,010.40</b>		<b>\$ 2,074.74</b>
<b>TOTAL ODC AND TRAVEL</b>					
Drilling Services			\$0.00	1.032	\$ -
Analytical Services			\$0.00	1.032	\$ -
Surveying Services			\$0.00	1.032	\$ -
Data Validation Services			\$0.00	1.032	\$ -
Terraprobe			\$0.00	1.032	\$ -
Advertising Services			\$0.00	1.032	\$ -
External Copy Services			\$0.00	1.032	\$ -
Toxicity Testing			\$0.00	1.032	\$ -
Public Mtg Transcript Film, Frames			\$0.00	1.032	\$ -
<b>TOTAL SUBCONTRACT COSTS:</b>			<b>\$0.00</b>		<b>\$ -</b>
<b>TOTAL COST:</b>					<b>\$ 20,209.80</b>
Award Fee - Labor, Travel & ODCs			\$ 20,209.80	0.095	\$ 1,919.93
Award Fee - Subcontract			\$ -	0.045	\$ -
<b>TOTAL COST PLUS AWARD FEE:</b>					<b>\$ 22,129.73</b>

**ATTACHMENT C**  
**TRAVEL SUMMARY ESTIMATE**

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task/WBS: 01 Project Management																
Purpose	Traveller	Origin	Destination	#Flight	Air Fare Costs			Lodging Costs			Per Diem Costs			Car Rental Costs		
					Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	Days	Rate	Cost	
OPT Mtg.	R. Allen	Jacksonville	Orlando	0		\$ -	36	\$ 65.00	\$ 2,340.00	36	\$ 34.00	\$ 1,224.00	36	\$ 37.00	#####	
OPT Mtg.	M. Salvetti	Wakefield	Orlando	9	\$ 452.00	\$ 4,068.00	18	\$ 65.00	\$ 1,170.00	18	\$ 34.00	\$ 612.00	18	\$ 37.00	\$ 666.00	
OPT Mtg.	S. Gleason	Arlington	Orlando	6	\$ 576.00	\$ 3,456.00	12	\$ 65.00	\$ 780.00	12	\$ 34.00	\$ 408.00	12	\$ 37.00	\$ 444.00	
PMO Mtg	S. Gleason	Arlington	Tallahassee	2	\$ 748.00	\$ 1,496.00	4	\$ 63.00	\$ 252.00	4	\$ 34.00	\$ 136.00	4	\$ 37.00	\$ 148.00	
Subtotal Travel:				17		\$ 9,020.00	70		\$ 4,542.00	70		\$ 2,380.00	70		#####	

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task/WBS 02 Community Relations															
Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				#Flights	Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	#Days	Rate	Cost
RAB Mtg.	B. Kollar	Tallahassee	Orlando			\$ -	5	\$ 65.00	\$ 325.00	5	\$ 34.00	\$ 170.00	5	\$ 37.00	\$185.00
						\$ -			\$ -			\$ -		\$ 37.00	\$ -
						\$ -			\$ -			\$ -		\$ 37.00	\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
Subtotal Travel:				0		\$ -	5		\$ 325.00	5		\$ 170.00	5		\$185.00

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task 03/WBS 04: OU3 IRA Workplan															
Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				#Flights	Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	#Days	Rate	Cost
OPT Mtg	Sr. Scient	Wash, DC	Orlando, FL	1	\$ 576.00	\$ 576.00	3	\$ 65.00	\$ 195.00	4	\$ 34.00	\$ 136.00	3	\$ 37.00	\$ 111.00
						\$ -			\$ -			\$ -		\$ 37.00	\$ -
						\$ -			\$ -			\$ -		\$ 37.00	\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
Subtotal Travel:				1		\$ 576.00	3		\$ 195.00	4		\$ 136.00	3		\$ 111.00

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task/WBS: 04 Field Work Program															
Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				#Flights	Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	#Days	Rate	Cost
FW Prog.	R. Allen	Jacksonvill	Orlando	0		\$ -	10	\$ 65.00	\$ 650.00	10	\$ 34.00	\$ 340.00	10	\$ 37.00	\$370.00
FW Prog.	M. Salvetti	Wakefield	Orlando	1	\$ 452.00	\$ 452.00	1	\$ 65.00	\$ 65.00	1	\$ 34.00	\$ 34.00	1	\$ 37.00	\$ 37.00
FW Prog.	S. Gleaso	Arlington	Orlando	1	\$ 576.00	\$ 576.00	2	\$ 65.00	\$ 130.00	2	\$ 34.00	\$ 68.00	2	\$ 37.00	\$ 74.00
Fid. Work	XU2 Chem	Boston, M	Orlando, FL	1	\$ 452.00	\$ 452.00	4	\$ 65.00	\$ 260.00	5	\$ 34.00	\$ 170.00	4	\$ 37.00	\$148.00
Fid Work	R. Allen	Jacksonvill	Orlando,Fl			\$ -	3	\$ 65.00	\$ 195.00	4	\$ 34.00	\$ 136.00	3	\$ 37.00	\$111.00
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
Subtotal Travel:				3		\$ 1,480.00	20		\$ 1,300.00	22		\$ 748.00	20		\$740.00

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task/WBS: 06 Data Validation															
Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				#Flights	Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	#Days	Rate	Cost
Data Mgmt	Alex Olis	Jacksonvill	Orlando	0		\$ -	1	\$ 65.00	\$ 65.00	1	\$ 34.00	\$ 34.00	1	\$ 37.00	\$ 37.00
						\$ -			\$ -			\$ -		\$ 37.00	\$ -
						\$ -			\$ -			\$ -		\$ 37.00	\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
Subtotal Travel:				0		\$ -	1	\$ 65.00	\$ 65.00	1	\$ 34.00	\$ 34.00	1	\$ 37.00	\$ 37.00

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task/WBS: 08 Human Health and Ecological Risk Assessment															
Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				#Flights	Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	#Days	Rate	Cost
ECO	Sr. Ecolog	Wakefield	Orlando	1	\$ 452.00	\$ 452.00	1	\$ 65.00	\$ 65.00	2	\$ 34.00	\$ 68.00	1	\$ 37.00	\$ 37.00
ECO	Ecologist	Wakefield	Orlando	1	\$ 452.00	\$ 452.00	1	\$ 65.00	\$ 65.00	2	\$ 34.00	\$ 68.00		\$ 37.00	\$ -
OPT	Sr. Ecolog	Wakefield	Orlando	1	\$ 452.00	\$ 452.00	2	\$ 65.00	\$ 130.00	3	\$ 34.00	\$ 102.00	1	\$ 37.00	\$ 37.00
OPT	Pr. Sr. Sc	Wakefield	Orlando	1	\$ 452.00	\$ 452.00	2	\$ 65.00	\$ 130.00	3	\$ 34.00	\$ 102.00		\$ 37.00	\$ -
OPT	S. Gleaso	Arlington	Orlando	1	\$ 576.00	\$ 576.00	2	\$ 65.00	\$ 130.00	3	\$ 34.00	\$ 102.00	2	\$ 37.00	\$ 74.00
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
Subtotal Travel:				5		\$ 2,384.00	8		\$ 520.00	13		\$ 442.00	4		\$ 148.00

ABB Environmental Services, Inc.

Travel Estimate

Project: OU3 Remedial Investigation and Feasibility Study

Task/WBS: 10 Treatability Studies															
Purpose	Traveller	Origin	Destination	Air Fare Costs			Lodging Costs			Per Diem Costs			Car/Van Rental Costs		
				#Flights	Rate	Cost	#Nights	Rate	Cost	#Days	Rate	Cost	#Days	Rate	Cost
Pump Test	Sr. Engine	Wakefield	Orlando	1	\$ 452.00	\$ 452.00	3	\$ 65.00	\$ 195.00	4	\$ 34.00	\$ 136.00	3	\$ 37.00	\$111.00
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
						\$ -			\$ -			\$ -			\$ -
Subtotal Travel:				1		\$ 452.00	3		\$ 195.00	4		\$ 136.00	3		\$111.00

**ATTACHMENT D**

**GLOSSARY**

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## GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
BRAC	Base Realignment and Closure
CERCLA CR	Comprehensive Environmental Response, Compensation, and Liability Act Community Relations
DPT	direct push technology
EIC	engineer-in-charge
FRED FS	Fast Retrieval of Environmental Data feasibility study
IRA	interim remedial action
LOE	level of effort
NEESA NTC	Naval Energy and Environmental Support Activity Naval Training Center
ODC OPT OU	other direct cost Orlando Partnering Team Operable Unit
PCAS POA PP	post-construction award services Plan of Action Proposed Plan
QA QC RAB RAC RI RI/FS ROD	quality assurance quality control Restoration Advisory Board Remedial Action Contract remedial investigation remedial investigation and feasibility study Record of Decision
TAL TCL TCLP TOM	target analyte list target compound list toxicity characteristic leachate procedure task order manager
USEPA	U.S. Environmental Protection Agency
WBS	Work Breakdown Structure



10 October 1996

REF: 854737-02

Commanding Officer  
Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
North Charleston, SC 29418

Attention: Mr. Robert Rivers, Code 0233RR  
Contracting Specialist

Subject: **Final Plan of Action Submittal**  
**Operable Unit 3 Remedial Investigation/Feasibility Study**  
**Contract N62467-89-D-0317**  
**NTC Orlando, FL**

Reference: 1) Your Request for Proposal (RFP) dated 28 June 1996  
2) POA submittal 854733, OU3 IRA  
3) POA submittal 854737, OU3 RI/FS  
4) Factfinding on 29 August 1996  
5) Negotiations on 11 September 1996

Dear Mr. Rivers:

ABB Environmental Services, Inc. (ABB-ES) is pleased to submit the subject Final Plan of Action for the Operable Unit 3 Remedial Investigation and Feasibility Study at NTC Orlando. This proposal has been prepared in accordance with the reference 1) SOW and reflects all changes agreed to during the reference 5) negotiations.

Two of the major changes identified during the reference 5) negotiations was the combination of the scope of work from the reference 2) proposal with the scope of work from the reference 3) proposal and the removal of the Treatability Study from the reference 2) scope of work.

If you have any questions regarding this matter, or require any additional information, please contact the undersigned at (904) 656-1293.

Sincerely,

**ABB ENVIRONMENTAL SERVICES, INC.**

*Cricket Shea*  
Cricket Shea  
Contracts Manager, CPCM

ABB Environmental Services Inc.



Berkeley Building  
2590 Executive Center Circle East  
Tallahassee, Florida 32301

Telephone (904) 656-1293  
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