



21 September 2022

via Electronic Mail

Ms. Mary Lou Helix
1102 Northridge Court
Concord, CA 94518

Mr. Scott Selken
Union Pacific Railroad Company
1400 Douglas Street STOP 1030
Omaha, NE 68179

Ms. Maureen Toms
Contra Costa County
C/O Department of Conservation and Development
30 Muir Road
Martinez, CA 94553

Subject: Work Authorization for Additional Required Tasks through January 2023
Hookston Station Site
Pleasant Hill, California

Dear Ms. Helix, Mr. Selkin, and Ms. Toms:

ERM-West, Inc. (ERM) has prepared this Work Authorization for additional environmental services at the Hookston Station site in Pleasant Hill, California (site) through the end of January 2023. ERM's previous work at this site has been performed on behalf of the Hookston Parties, which consist of Union Pacific Railroad Company (UPRR); Mary Lou Helix, Karen Hook, Debbie Hook, and Blake Pucell (together the Hookston Group); and Contra Costa County. The site is currently regulated under Regional Water Quality Control Board (RWQCB) Order No. R2-2007-0009, *Adoption of Final Site Cleanup Requirements and Rescission of Order Nos. R2-2003-0035 and R2-2004-0081*, dated 30 January 2007 (Order). This Work Authorization has been issued under the existing Consulting Services Agreement between ERM and the Hookston Parties, dated 14 December 2021.

All tasks in this proposed scope of work are being conducted to satisfy the ongoing requirements of the Order, the *Mid-Plume High Resolution Site Characterization Results* document, dated 9 July 2021, and comments on the *Feasibility Study Addendum/Remedial Design and Implementation Plan*, dated 31 March 2021 issued by the RWQCB in an email dated 14 June 2021. This Work Authorization covers all currently known scopes of work to satisfy RWQCB requirements and does not include any additional elements that may be required by the RWQCB in the future. These tasks are estimated to be completed by January 2023.

This Work Authorization describes the following tasks to be performed by ERM:

- Task 1: Status Report on Remedy Effectiveness (5-year Review)

- Task 2: Support for Drafting Revised RWQCB Order
- Task 3: Revised Feasibility Study/Remedial Design and Implementation Plan
- Task 4: Geotechnical Engineering Assessment
- Task 5: Project Management

The following sections provide a rationale for the proposed work; a brief description of the scope of work; and cost estimate for performing the tasks outlined above.

PROPOSED SCOPE OF WORK

A description of work to be performed under each task is provided below. All proposed work is required by the current Order.

Task 1 – Status Report on Remedy Effectiveness

This task includes budget for preparation of the Status Report on Remedy Effectiveness, which is due every 5 years and will be submitted to the RWQCB on 31 December 2022 in accordance with Task 9 of the Order. The status report will include an evaluation of the effectiveness of the remedial activities that have been performed to address TCE contamination associated with the site including:

- Indoor air quality sampling and operation of VIPs at homes within the Colony Park neighborhood;
- In situ chemical oxidation injections into B-Zone groundwater; and
- Installation of a PRB with zero valent iron to remediate A-Zone groundwater.

As outlined in the Order, the Status Report on Remedy Effectiveness will present performance and cost effectiveness data, and evaluate the effectiveness of the remedial program in controlling contaminant migration and protecting human health and the environment. ERM will provide a draft version of the report to the Hookston Parties for review, and comments/revisions will be incorporated into the final submittal to the RWQCB.

Task 2 – Support for Drafting Revised RWQCB Order

The RWQCB has informed the ERM and the Hookston Parties that they are preparing a revised Order to replace Order No. R2-2007-0009 that will include directives to execute an approved alternative cleanup plan, and they have requested support from ERM and the Hookston Parties in drafting the new Order. The scope of this task includes:

- Updating sections of the Order as requested by the RWQCB, which may be limited to providing accurate historical site information, but could include assistance with drafting other sections as requested by the RWQCB
- Support on developing a new Fact Sheet to support public comment on the new Order
- Communication with the RWQCB regarding the Order

ERM will provide the Hookston Parties with a draft version of text to be added to all Water Board correspondence for review, and comments/revisions will be incorporated into the final submittal to the RWQCB.

Task 3 – Revised Feasibility Study/Remedial Design and Implementation Plan

During a meeting with the RWQCB on 28 July 2022, RWQCB provided comments to the *Revised Feasibility Study Addendum/Remedial Design and Implementation Plan* (Revised FS/RDIP). These comments included requests to:

- Provide supporting statements regarding the historical effectiveness of the vapor intrusion mitigation systems installed to support Remedial Action Objective (RAO) #3
- Provide additional clarification in the document as to the difference between the performance monitoring period of 10 to 30 years referenced in Section 4.0 and the groundwater remediation timeline analysis presented in Section 6.0 of the Revised FS/RDIP
- Reevaluate if a more aggressive alternate cleanup plan could be considered to shorten the groundwater remediation timeline analysis presented in Section 6.0 of the Revised FS/RDIP
- Propose the installation of the groundwater monitoring well closer to the A-Zone source area injection points that will allow for a more timely evaluation of remedial effectiveness
- Provide a feasibility evaluation of source area soil treatment options and an inclusion of a recommended source area cleanup plan in the Revised FS/RDIP

ERM will prepare an update to the *Revised Feasibility Study Addendum/Remedial Design and Implementation Plan* to address the RWQCB comments presented above. This scope of this document includes the following elements:

- Completing the source area soil feasibility study (including conceptual design and cost estimation) and developing a recommended source area soil remedial plan
- Updating estimated timeframes for the effects of the additional groundwater treatment to reach downgradient monitoring wells, based on proposed revisions to the groundwater treatment plan to meet RWQCB expectations for a more aggressive treatment option
- Redefining the performance monitoring program

The *Revised Feasibility Study Addendum/Remedial Design and Implementation Plan* is a conceptual remedial design plan that will be submitted to the RWQCB for approval of the proposed approach. A separate and more detailed remedial design and specifications package that will be used to solicit bids from potential subcontractors will be prepared following RWQCB approval of the conceptual remedial plan, therefore is not included in this scope of work.

ERM will provide a draft version of the revised document to the Hookston Parties for review, and comments/ revisions will be incorporated into the final submittal to the RWQCB.

Task 4 – Geotechnical Engineering Assessment

Source area soil impacts are present beneath the warehouse at the site. The excavation will need to be performed in a manner that is protective of the structural stability of the existing warehouse building at the site. ERM will engage with a geotechnical engineering subcontractor to evaluate the excavation approaches and shoring options. The evaluation will include:

- A review of available historical documentation regarding the composition of the subsurface soil (boring logs, CPT logs, etc.)
- A review of available historical documentation on building construction (to be provided by the Hookston Parties, the City of Pleasant Hill, or Contra Costa County)
- Perform a site walk to inspect the current building condition
- Prepare a memorandum that presents a conceptual shoring approach along with any recommendations for soil sampling or geotechnical testing necessary to support a final design

This evaluation will be used to prepare the remedial design and specifications package for the source area remedy implementation.

Task 5 – Project Management

This task will cover the management activities associated with the tasks to complete activities as presented in Tasks 1, 2, 3, and 4. These activities include cost tracking; calls, meetings, and strategic support from ERM for regulatory agency interactions; and routine communications with the Hookston Parties through 31 January 2023.

SCHEDULE

ERM is prepared to start the scope of work outlines above immediately upon approval of this Work Authorization by the Hookston Parties.

ESTIMATED PROBABLE COST

The estimated probable cost to perform the proposed scope of work is \$72,441, as summarized in the tables included as [Appendix A](#). This budget is being proposed on a time-and-materials basis of hourly charges for ERM personnel, plus direct expenses. Only those costs incurred will be charged, and will not exceed the estimated cost without prior approval by the Hookston Parties. The estimated cost is an estimated maximum, which we fully expect will cover the services described herein, but no guarantee is made or implied.

A cost summary by task is provided in the table below.

Task	Description	Total
1	Status Report on Remedy Effectiveness	\$23,468
2	Support for Drafting Revised RWQCB Order	\$12,187
3	Update to Feasibility Study/Remedial Design and Implementation Plan	\$11,9448
4	Civil/GeoTech/Structural Engineering Assessment	\$14,931
5	Project Management	\$9,911
Estimated Probable Cost		\$72,441

TERMS AND CONDITIONS

ERM proposes to perform this scope of work in accordance with the Consulting Services Agreement between the Hookston Parties and ERM dated 14 December 2021 (“Contract”; attached by reference).

ORDER OF PRECEDENCE

This Work Authorization, attachments, and exhibits hereto, including the Contract’s terms and conditions and all referenced documents, constitute the entire agreement between the parties with respect to the matters herein, and integrate, merge, and supersede all prior negotiations, representations, or agreements relating thereto, whether written or oral, except to the extent they are expressly incorporated herein. The provisions of this agreement and the accompanying documents shall be construed and interpreted consistently. Unless otherwise stated elsewhere in this submittal, any conflicts in this submittal and the accompanying documents shall be resolved in accordance with the following in descending order of precedence:

- (a) The fully executed Work Authorization referencing the terms and conditions of the Consulting Services Agreement between the Hookston Parties and ERM dated 14 December 2021 and any fully executed amendments.
- (b) Any subsequent purchase orders/work authorizations issued.

AUTHORIZATION

If this Work Authorization is acceptable, please have an authorized representative sign in the space provided below and return a copy to ERM for our files. The above-referenced offer is valid for 90 days.

ERM-West, Inc.



Signature

Brian Bjorklund

Printed Name

Partner

Title

Date

Client Approval

UPRR Representative



Signature

Scott Selken

Printed Name

Sr. Mgr. Site Remediation

Title

9/22/2022

Date

Contra Costa County Representative

Signature

Printed Name

Title

Date

Helix Trust Representative

Signature

Printed Name

Title

Date

APPENDIX A COST ESTIMATE TABLE

Task 1 - Status Report on Remedy Effectiveness

SUMMARY	
Total for Job Number	\$ 23,468
Total Labor	\$ 22,768
Total Hours	176.0

PROPOSALS	Category	SI Number - Description	Rate	Totals		Sub Task 1		Project Management		Sub Task		Sub Task	
				Quantity	(\$)	Quantity	(\$)	Quantity	(\$)	Quantity	(\$)	Quantity	(\$)
				Location	Location	Location	Location	Location	Location				
WP/Sec	\$ 58.13	12.0	\$ 698	12.0	\$ 698	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Staff Associate	\$ 107.97	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
CAD Operator	\$ 107.97	24.0	\$ 2,591	24.0	\$ 2,591	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Associate	\$ 113.51	36.0	\$ 4,086	36.0	\$ 4,086	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Manager	\$ 130.12	50.0	\$ 6,506	50.0	\$ 6,506	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Sr. Project Manager	\$ 152.26	30.0	\$ 4,568	30.0	\$ 4,568	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Program Director	\$ 166.12	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Principal	\$ 179.95	24.0	\$ 4,319	24.0	\$ 4,319	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Reimbursables	Actual	-	\$ 700	-	\$ 700	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Materials	Actual	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Markup on Materials	5%	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Subcontractors	Actual	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Markup on Subs	5%	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Mileage	\$0.580	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Per Diem	\$125.00	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Grand Totals			\$ 23,468		\$ 23,468		\$ -		\$ -		\$ -		\$ -

REIMBURSABLE DETAILS		
ITEM	SUB TASK	AMOUNT
CAD - Recovery Computer	1	\$ 600
Shipping - Reports	1	\$ 100

MATERIAL DETAILS		
ITEM	SUB TASK	AMOUNT

SUBCONTRACTOR DETAILS		
ITEM	SUB TASK	AMOUNT

Reimbursable Total (Check Cell E22) \$ 700

Materials Total (Check Cell E23) \$ -

Subcontractor Total (Check Cell E25) \$ -

Budget Assumptions

Sub Task 1 - Project Management		
Category	Hours	Assumptions
WP/Sec	12.0	report copies
Staff Associate		
CAD Operator	24.0	figures
Project Associate	36.0	data tabulation, QA/QC
Project Manager	50.0	data analysis, data management, reporting, edits
Sr. Project Manager	30.0	review and technical edits
Program Director		
Principal	24.0	report review, discussions with clients

Sub Task -		
Category	Hours	Assumptions
WP/Sec		
Staff Associate		
CAD Operator		
Project Associate		
Project Manager		
Sr. Project Manager		
Program Director		
Principal		

REIMBURSABLE DETAILS		
ITEM	SUB TASK	Assumption
CAD - Recovery Comput	1	\$25/CADD Operator Hour
Shipping- Reports	1	\$100 per Document

MATERIAL DETAILS		
ITEM	SUB TASK	Assumption

Task 2 - Support for Drafting Revised RWQCB Order

SUMMARY	
Total for Job Number	\$ 12,187
Total Labor	\$ 12,187
Total Hours	98.0

PROPOSALS	Category	SI Number - Description	Rate	Totals		Sub Task 1		Project Management		Sub Task		Sub Task	
				Quantity	(\$)	Location	Quantity	(\$)	Location	Quantity	(\$)	Quantity	(\$)
WP/Sec			\$ 58.13	12.0	\$ 698	12.0	\$ 698						
Staff Associate			\$ 107.97	24.0	\$ 2,591	24.0	\$ 2,591						
CAD Operator			\$ 107.97	-	\$ -	-	\$ -						
Project Associate			\$ 113.51	24.0	\$ 2,724	24.0	\$ 2,724						
Project Manager			\$ 130.12	-	\$ -	-	\$ -						
Sr. Project Manager			\$ 152.26	18.0	\$ 2,741	18.0	\$ 2,741						
Program Director			\$ 166.12	12.0	\$ 1,993	12.0	\$ 1,993						
Principal			\$ 179.95	8.0	\$ 1,440	8.0	\$ 1,440						
Reimbursables	Actual			-	\$ -		\$ -						
Materials	Actual			-	\$ -		\$ -						
Markup on Materials	5%			-	\$ -		\$ -			\$ -		\$ -	
Subcontractors	Actual			-	\$ -		\$ -						
Markup on Subs	5%			-	\$ -		\$ -						
Mileage	\$0.580			-	\$ -		\$ -						
Per Diem	\$125.00			-	\$ -		\$ -						
Grand Totals					\$ 12,187		\$ 12,187			\$ -		\$ -	

REIMBURSABLE DETAILS		
ITEM	SUB TASK	AMOUNT
CAD - Recovery Computer	1	\$ -

MATERIAL DETAILS		
ITEM	SUB TASK	AMOUNT

SUBCONTRACTOR DETAILS		
ITEM	SUB TASK	AMOUNT

Reimbursable Total (Check Cell E22) \$ -

Materials Total (Check Cell E23) \$ -

Subcontractor Total (Check Cell E25) \$ -

Budget Assumptions

Sub Task 1 - Project Management		
Category	Hours	Assumptions
WP/Sec	12.0	Editorial review
Staff Associate	24.0	Historical review and drafting Order
CAD Operator		
Project Associate	24.0	Historical review and drafting Order
Project Manager		
Sr. Project Manager	18.0	Draft Order review, edits
Program Director	12.0	Document review
Principal	8.0	Document review

Sub Task -		
Category	Hours	Assumptions
WP/Sec		
Staff Associate		
CAD Operator		
Project Associate		
Project Manager		
Sr. Project Manager		
Program Director		
Principal		

REIMBURSABLE DETAILS		
ITEM	SUB TASK	Assumption
CAD - Recovery Comput	1	\$25/CADD Operator Hour

MATERIAL DETAILS		
ITEM	SUB TASK	Assumption

Task 3 - Revised FSRDIP

SUMMARY	
Total for Job Number	\$ 11,944
Total Labor	\$ 11,594
Total Hours	90.0

PROPOSALS	Category	SI Number - Description	Rate	Totals		Sub Task 1		Project Management		Sub Task		Sub Task	
				Quantity	(\$)	Location	Quantity	(\$)	Location	Quantity	(\$)	Quantity	(\$)
WP/Sec			\$ 58.13	6.0	\$ 349		6.0	\$ 349		-	\$ -		\$ -
Staff Associate			\$ 107.97	16.0	\$ 1,728		16.0	\$ 1,728		-	\$ -		\$ -
CAD Operator			\$ 107.97	10.0	\$ 1,080		10.0	\$ 1,080		-	\$ -		\$ -
Project Associate			\$ 113.51	18.0	\$ 2,043		18.0	\$ 2,043		-	\$ -		\$ -
Project Manager			\$ 130.12	-	\$ -		-	\$ -		-	\$ -		\$ -
Sr. Project Manager			\$ 152.26	24.0	\$ 3,654		24.0	\$ 3,654		-	\$ -		\$ -
Program Director			\$ 166.12	10.0	\$ 1,661		10.0	\$ 1,661		-	\$ -		\$ -
Principal			\$ 179.95	6.0	\$ 1,080		6.0	\$ 1,080		-	\$ -		\$ -
Reimbursables	Actual			-	\$ 350			\$ 350					
Materials	Actual			-	\$ -			\$ -					
Markup on Materials	5%			-	\$ -			\$ -		\$ -		\$ -	
Subcontractors	Actual			-	\$ -			\$ -					
Markup on Subs	5%			-	\$ -			\$ -					
Mileage	\$0.580			-	\$ -			\$ -		\$ -		\$ -	
Per Diem	\$125.00			-	\$ -			\$ -		\$ -		\$ -	
Grand Totals					\$ 11,944			\$ 11,944		\$ -		\$ -	

REIMBURSABLE DETAILS		
ITEM	SUB TASK	AMOUNT
CAD - Recovery Computer	1	\$ 250
Shipping - Reports	1	\$ 100

MATERIAL DETAILS		
ITEM	SUB TASK	AMOUNT

SUBCONTRACTOR DETAILS		
ITEM	SUB TASK	AMOUNT

Reimbursable Total (Check Cell E22) \$ 350

Materials Total (Check Cell E23) \$ -

Subcontractor Total (Check Cell E25) \$ -

Budget Assumptions

Sub Task 1 - Project Management		
Category	Hours	Assumptions
WP/Sec	6.0	Report copy generation, editorial review
Staff Associate	16.0	Addressing Water Board comments, reporting
CAD Operator	10.0	Figures
Project Associate	18.0	Addressing Water Board comments, reporting
Project Manager		
Sr. Project Manager	24.0	Reporting, Document Review, Edits
Program Director	10.0	Document review
Principal	6.0	Document review

Sub Task -		
Category	Hours	Assumptions
WP/Sec		
Staff Associate		
CAD Operator		
Project Associate		
Project Manager		
Sr. Project Manager		
Program Director		
Principal		

REIMBURSABLE DETAILS		
ITEM	SUB TASK	Assumption
CAD - Recovery Comput	1	\$25/CADD Operator Hour
Shipping- Reports	1	\$100 per Document

MATERIAL DETAILS		
ITEM	SUB TASK	Assumption

Task 4 - Engineering Assessment

SUMMARY	
Total for Job Number	\$ 14,931
Total Labor	\$ 4,956
Total Hours	40.0

PROPOSALS	Category	SI Number - Description	Rate	Totals		Sub Task 1		Project Management		Sub Task		Sub Task	
				Quantity	(\$)	Quantity	(\$)	Quantity	(\$)	Quantity	(\$)	Quantity	(\$)
				Location	Location	Location	Location	Location	Location				
WP/Sec	\$ 58.13	4.0	\$ 233	4.0	\$ 233	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Staff Associate	\$ 107.97	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
CAD Operator	\$ 107.97	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Associate	\$ 113.51	16.0	\$ 1,816	16.0	\$ 1,816	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Manager	\$ 130.12	10.0	\$ 1,301	10.0	\$ 1,301	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Sr. Project Manager	\$ 152.26	6.0	\$ 914	6.0	\$ 914	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Program Director	\$ 166.12	2.0	\$ 332	2.0	\$ 332	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Principal	\$ 179.95	2.0	\$ 360	2.0	\$ 360	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Reimbursables	Actual	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Materials	Actual	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Markup on Materials	5%	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Subcontractors	Actual	-	\$ 9,500	-	\$ 9,500	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Markup on Subs	5%	-	\$ 475	-	\$ 475	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Mileage	\$0.580	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Per Diem	\$125.00	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Grand Totals			\$ 14,931		\$ 14,931		\$ -		\$ -		\$ -		\$ -

REIMBURSABLE DETAILS		
ITEM	SUB TASK	AMOUNT
CAD - Recovery Computer	1	\$ -

MATERIAL DETAILS		
ITEM	SUB TASK	AMOUNT

SUBCONTRACTOR DETAILS		
ITEM	SUB TASK	AMOUNT
GeoTech/Structural Eng	1	\$ 9,500

Reimbursable Total (Check Cell E22) \$ - Materials Total (Check Cell E23) \$ - Subcontractor Total (Check Cell E25) \$ 9,500

Budget Assumptions

Sub Task 1 - Project Management		
Category	Hours	Assumptions
WP/Sec	4.0	
Staff Associate	-	
CAD Operator	-	
Project Associate	16.0	
Project Manager	10.0	
Sr. Project Manager	6.0	
Program Director	2.0	
Principal	2.0	

Sub Task -		
Category	Hours	Assumptions
WP/Sec		
Staff Associate		
CAD Operator		
Project Associate		
Project Manager		
Sr. Project Manager		
Program Director		
Principal		

REIMBURSABLE DETAILS		
ITEM	SUB TASK	Assumption
CAD - Recovery Comput	1	\$25/CADD Operator Hour

MATERIAL DETAILS		
ITEM	SUB TASK	Assumption

Task 5 - Regulatory Management 2022

SUMMARY	
Total for Job Number	\$ 9,911
Total Labor	\$ 9,911
Total Hours	75.0

PROPOSALS	Category	SI Number - Description	Rate	Totals		Sub Task 1		Project Management		Sub Task		Sub Task	
				Quantity	(\$)	Quantity	(\$)	Quantity	(\$)	Quantity	(\$)	Quantity	(\$)
				Location	Location	Location	Location	Location	Location				
WP/Sec			\$ 58.13	5.0	\$ 291	5.0	\$ 291	-	\$ -	-	\$ -	-	\$ -
Staff Associate			\$ 107.97	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
CAD Operator			\$ 107.97	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Associate			\$ 113.51	15.0	\$ 1,703	15.0	\$ 1,703	-	\$ -	-	\$ -	-	\$ -
Project Manager			\$ 130.12	30.0	\$ 3,904	30.0	\$ 3,904	-	\$ -	-	\$ -	-	\$ -
Sr. Project Manager			\$ 152.26	15.0	\$ 2,284	15.0	\$ 2,284	-	\$ -	-	\$ -	-	\$ -
Program Director			\$ 166.12	5.0	\$ 831	5.0	\$ 831	-	\$ -	-	\$ -	-	\$ -
Principal			\$ 179.95	5.0	\$ 900	5.0	\$ 900	-	\$ -	-	\$ -	-	\$ -
Reimbursables	Actual			-	\$ -		\$ -						
Materials	Actual			-	\$ -		\$ -						
Markup on Materials	5%			-	\$ -		\$ -		\$ -		\$ -		\$ -
Subcontractors	Actual			-	\$ -		\$ -						
Markup on Subs	5%			-	\$ -		\$ -						
Mileage	\$0.580			-	\$ -		\$ -		\$ -		\$ -		\$ -
Per Diem	\$125.00			-	\$ -		\$ -		\$ -		\$ -		\$ -
Grand Totals					\$ 9,911		\$ 9,911		\$ -		\$ -		\$ -

REIMBURSABLE DETAILS		
ITEM	SUB TASK	AMOUNT
CAD - Recovery Computer	1	\$ -

MATERIAL DETAILS		
ITEM	SUB TASK	AMOUNT

SUBCONTRACTOR DETAILS		
ITEM	SUB TASK	AMOUNT

Reimbursable Total (Check Cell E22) \$ -

Materials Total (Check Cell E23) \$ -

Subcontractor Total (Check Cell E25) \$ -

Budget Assumptions

Sub Task 1 - Project Management		
Category	Hours	Assumptions
WP/Sec	5.0	1 hr per month for document filing, etc.
Staff Associate	-	
CAD Operator	-	
Project Associate	15.0	3 hr per month for data review for RP communication
Project Manager	30.0	6 hrs per month for RP and Agency communications; budget managem
Sr. Project Manager	15.0	3 hr per month for RP and Agency communications
Program Director	5.0	1 hr per month for document filing, etc.
Principal	5.0	1 hr per month for document filing, etc.

Sub Task -		
Category	Hours	Assumptions
WP/Sec		
Staff Associate		
CAD Operator		
Project Associate		
Project Manager		
Sr. Project Manager		
Program Director		
Principal		

REIMBURSABLE DETAILS		
ITEM	SUB TASK	Assumption
CAD - Recovery Comput	1	\$25/CADD Operator Hour

MATERIAL DETAILS		
ITEM	SUB TASK	Assumption