# Active Industrial Uniform Co. Inc.

Lindenhurst, Suffolk County, New York

## Work Plan Amendment No. D002925-28.2
## Remedial Design


APPROVED
OCT 14 1999

**NYSDEC Site #1-52-125**
**Work Assignment #D002925-28**

Prepared For:

**New York State**
**Department Of Environmental Conservation**
50 Wolf Road, Albany, New York 12233

**John P. Cahill**
Commissioner

Prepared By:

**CDM** Camp Dresser & McKee
100 Crossways Park Drive West
Woodbury, New York 11797-2012

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October 1999

**CDM** Camp Dresser & McKee

*consulting engineering construction operations*

Raritan Plaza 1, Raritan Center
Edison, New Jersey 08818-3142
Tel: 732 225-7000 Fax: 732 225-7851

October 5, 1999

Mr. Gerard Burke
Bureau of Construction Services
NYSDEC
50 Wolf Road
Albany, NY 12233-7010

Subject: Active Industrial Uniform
NYS Site Number: 1-52-125
Project No. D002925-28
Amendment No. 2

Dear Mr. Burke:

Please find enclosed 7 copies of Amendment No. 2 for the above referenced project. This amendment has been prepared based on our letter to you, dated May 26, 1999, regarding an all performance-based design.

In developing the cost estimate for this additional work, our project engineer was not aware of the fact that we have a standby subcontractor already approved and under contract for surveying services. Therefore, the bid price of $9,000 for the surveying services that was used in developing our cost estimate is not applicable to work being performed under this contract. The cost estimate provided by our surveying subcontractor was $11,247, a difference of $2,247. Therefore, this amendment increases the approved upper limit of $307,350 to $333,749, a total increase of $26,399.

Should you have any questions or require further information, please do not hesitate to call me.

Very truly yours,

CAMP DRESSER & McKEE

D J Guterman

for David J. Keil, P.G.
Project Manager

cc: K. Marran

Attachments

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Schedule 2.11(a)
Summary of Work Assignment Price
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| | |
|---|---|
| 1. Direct Salary Costs (Schedules 2.11(b) and 2.11(g)) | $89,685 |
| 2. Indirect Costs (Schedule 2.11(g)) | $149,415 |
| 3. Direct Non-Salary Costs (Schedules 2.11(c)(d)) | $12,886 |

Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.11(e))

| Name of Subcontractor | Services To Be Performed | Subcontract Price |
|---|---|---|
| A. YEC, Inc. | Field Support | 38,737 |
| 4. Total Cost-Plus-Fixed-Fee Subcontracts | | $38,737 |

Unit Price Subcontracts (Schedule 2.11(f))

| Name of Subcontractor | Services To Be Performed | Subcontract Price |
|---|---|---|
| A. $H_2M$ Labs | Analytical Laboratory | $12,308 |
| B. Chem World | "Data Validation" (DUSR preparation) | $1,613 |
| C. Marsden Reproductions, Inc. | Photocopying and Blueprints | $3,021 |
| D. Zebra Environmental Corporation | Geoprobe Installation and Sampling | $10,731 |
| E. SJB Drilling | Well Installations | $2,861 |
| 5. Total Unit Price Subcontracts | | $30,533 |
| 6. Subcontract Management Fee (Schedule 2.11(f)) | | $1,152 |
| 7. Total Subcontract Costs (lines 4+5+6) | | $70,422 |
| 8. Fixed Fee (Schedule 2.11(g)) | | $11,340 |
| 9. Total Work Assignment Price (Lines 1+2+3+7+8) | | $333,749 |

Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28

Schedule 2.11 (b)

| NSPE | | IX | VIII | VII | VI | V | IV | III | II | I | Technical Report Typing | Admin./ Support | Total Est. Hours | Total Est. LOE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Salary Rates | 1998 | $57.99 | $52.15 | $43.26 | $39.15 | $32.34 | $30.28 | $24.68 | $22.21 | $18.85 | $18.70 | $18.70 | | |
| Average Salary Rates | 1999 | $60.89 | $54.76 | $45.42 | $41.11 | $33.95 | $31.79 | $25.91 | $23.31 | $19.79 | $19.64 | $19.64 | | |
| **Task 1 Work Plan Development (1998 rate schedule)** | | **0** | **0** | **2** | **22** | **30** | **5** | **0** | **0** | **4** | **2** | **0** | **65** | **$2,182.22** |
| **Task 2 Remedial Design Investigation (1998 rate schedule)** | | **2** | **0** | **8** | **48** | **140** | **27** | **0** | **64** | **52** | **20** | **20** | **381** | **$10,836.06** |
| **Task 3 Remedial Design (1999 rate schedule)** | | **4** | **10** | **22** | **32** | **80** | **246** | **458** | **100** | **40** | **155** | **30** | **1177** | **$32,265.04** |
| **Task 4 Construction Oversight (1999 rate Schedule)** | | **6** | **0** | **18** | **58** | **48** | **200** | **860** | **0** | **20** | **20** | **40** | **1270** | **$35,411.68** |
| **Task 5 Phase II Investigations (1998 rate schedule)** | | **1** | **0** | **42** | **12** | **88** | **0** | **138** | **0** | **5** | **8** | **8** | **302** | **$8,989.92** |
| | | | | | | | | | | | | | | |
| Subtotal 1998 Hours | | 3 | 0 | 52 | 82 | 258 | 32 | 138 | 64 | 61 | 30 | 28 | 748 | |
| Subtotal 1999 Hours | | 10 | 10 | 40 | 90 | 128 | 446 | 1318 | 100 | 60 | 175 | 70 | 2447 | |
| **Estimated Labor Hours** | | **13** | **10** | **92** | **172** | **386** | **478** | **1456** | **164** | **121** | **205** | **98** | **3195** | |
| **Estimated Cost** | | **$782.87** | **$547.60** | **$4,066.32** | **$6,910.20** | **$12,689.32** | **$15,147.30** | **$37,555.22** | **$3,752.44** | **$2,337.25** | **$3,998.00** | **$1,898.40** | | **$89,684.92** |

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28

Schedule 2.11 (b-1)

| NSPE | | IX | VIII | VII | VI | V | IV | III | II | I | Technical Report Typing | Admin./ Support | Total Est. Hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Salary Rates | 1998 | $57.99 | $52.15 | $43.26 | $39.15 | $32.34 | $30.28 | $24.68 | $22.21 | $18.85 | $18.70 | $18.70 | |
| Average Salary Rates | 1999 | $60.89 | $54.76 | $45.42 | $41.11 | $33.95 | $31.79 | $25.91 | $23.31 | $19.79 | $19.64 | $19.64 | |
| **Task 1 Work Plan Development (1998 rate schedule)** | | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Task 2 Remedial Design Investigation (1998 rate schedule)** | | **2** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **0** | **2** | **10** | **18** |
| **Task 3 Remedial Design (1999 rate schedule)** | | **4** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **0** | **8** | **15** | **31** |
| **Task 4 Construction Oversight (1999 rate Schedule)** | | **6** | **0** | **0** | **12** | **0** | **0** | **0** | **0** | **0** | **8** | **20** | **46** |
| Subtotal 1998 Hours | | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 10 | 18 |
| Subtotal 1999 Hours | | 10 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 35 | 77 |
| **Estimated Labor Hours** | | **12** | **0** | **0** | **20** | **0** | **0** | **0** | **0** | **0** | **18** | **45** | **95** |

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Schedule 2.11(c)
Direct Non-Salary Costs
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| Item | Max. Reimbursement Rate (Specify Unit) | Est. No. of Units | Total Estimated Cost |
|---|---|---|---|
| Mailings | $0.32 /letter | 60 letters | $19.20 |
| Letter Packages | $4.00 /package | 75 packages | $300.00 |
| Federal Express/Airborne | | | |
| Deliverables | $11.00 /package | 21 shipments | $231.00 |
| | $20.00 /package | 6 shipments | $120.00 |
| | $30.00 /package | 6 shipments | $180.00 |
| Sample Shipment | $40.00 /cooler/canister | 4 shipments | $160.00 |
| Equipment Shipment | $50.00 /shipment | 8 shipments | $400.00 |
| Phone/Fax | $5.25 /call | 120 calls | $630.00 |
| Level D protection | $12.00 /man-day | 18 man-days | $216.00 |
| Lodging/Meals per diem | $165.00 /day | 19 days | $3,135.00 |
| Mileage to Site | $0.315 /mile | 4900 miles | $1,543.50 |
| Photographs | $20.00 /roll | 22 rolls | $440.00 |
| Survey Stakes | $0.65 /each | 60 stakes | $39.00 |
| Survey Paint | $5.00 /can | 6 cans | $30.00 |
| Duct Tape/Shipping Tape | $2.00 /roll | 1 roll | $2.00 |
| Utility Knives | $2.00 /each | 3 knives | $6.00 |
| Polyethylene hose - 1" Diameter | $20.00 /roll | 3 rolls | $60.00 |
| Disposable Bailers | $18.00 /each | 29 bailers | $522.00 |
| Miscellaneous Supplies | N/A | N/A | $1,000.00 |
| **Total Direct Non-Salary Costs** | | | **$9,033.70** |

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Schedule 2.11(d)

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| Item | Purchase Price x 85% | Capital Recovery and Usage Rate ($/Unit of Time) | Maximum Days for Usage Rate | Estimated Usage (Unit of Time) | Estimated Usage Cost (Col.3 x Col.4) | Non-Billable Amount |
|---|---|---|---|---|---|---|
| Photoionizer - OVM | $3,800 | $23 /day | 165 days | 150 days | $3,450.00 | |
| Water level meter | $250 | $2 /day | 125 days | 4 days | $8.00 | |
| Generator - 5000 w | $1,450 | $32 /day | 45 days | 4 days | $128.00 | |
| Submersible 2" | $375 | $3 /day | 125 days | 12 days | $36.00 | |
| Turb/pH/Temp./Conduct/DO meter | $3,800 | $23 /day | 107 days | 10 days | $230.00 | |
| | | | | Total: | $3,852.00 | $0.00 |

[1]Usage Rate = Capital Recovery Rate + O&M Rate

[2]The maximum usage rate for an item of equipment reverts to the O&M rate when the total recovery reimbursement rate exceeds 85% of the purchase price.

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Schedule 2.11(f)1
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **$H_2M$ Labs** | **Sample Analysis** | **$12,308.00** | **$615.40** |

| Item | Max. Reimbursement Rate (Specify Unit) | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **Task 1** | | | |
| **1. Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $110.00 /each | 30 | $3,300.00 |
| 1b TCL Volatiles + 10(95-1)-water | $100.00 /each | 0 | $0.00 |
| Petroleum Hydrocarbons | $35.00 /each | 1 | $35.00 |
| **2. Groundwater Sampling Round** | | | |
| 2a TCL Volatiles + 10(95-1)-water | $100.00 /each | 38 | $3,800.00 |
| 2b TAL Metals | $85.00 /each | 2 | $170.00 |
| 2c Alkalinity | $10.00 /each | 2 | $20.00 |
| 2d TDS | $10.00 /each | 2 | $20.00 |
| 2e TSS | $10.00 /each | 2 | $20.00 |
| 2f Chloride | $10.00 /each | 2 | $20.00 |
| **Task 5** | | | |
| **1. Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $110.00 /each | 20 | $2,200.00 |
| 1a TCL Volatiles + 10(95-1)-soil (48-hr tur | $165.00 /each | 9 | $1,485.00 |
| 1b TCL Volatiles + 10(95-1)-water | $100.00 /each | 0 | $0.00 |
| TCLP Total Analysis | $678.00 /each | 1 | $678.00 |
| **2. Groundwater Sampling Round** | | | |
| 2a TCL Volatiles + 10(95-1)-water | $100.00 /each | 1 | $100.00 |
| 2b TAL Metals | $85.00 /each | 4 | $340.00 |
| 2c Alkalinity | $10.00 /each | 3 | $30.00 |
| 2d TDS | $10.00 /each | 3 | $30.00 |
| 2e TSS | $10.00 /each | 3 | $30.00 |
| 2f Chloride | $10.00 /each | 3 | $30.00 |
| | Subtotal - Subcontract Price | | $12,308.00 |
| | Subcontract Management Fee* | | $615.40 |
| | **TOTAL** | | **$12,923.40** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.
** Surcharge for 2-week turnaround is 150 percent per sample

Schedule 2.11(f)2
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **Chem World** | **DUSR Preparation ("Data Validation")** | **$1,612.80** | **$0.00** |

| Item | Max. Reimbursement Rate (Specify Unit) | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **1. Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $14.40 /each | 30 | $432.00 |
| 1b TCL Volatiles + 10(95-1)-water | $14.40 /each | 28 | $403.20 |
| **2. Groundwater Sampling Round** | | | |
| 2a TCL Volatiles + 10(95-1)-water | $14.40 /each | 18 | $259.20 |
| **3. Phase II Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $14.40 /each | 36 | $518.40 |
| | | Subtotal - Subcontract Price | $1,612.80 |
| | | Subcontract Management Fee* | $0.00 |
| | | **TOTAL** | **$1,612.80** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.

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Schedule 2.11(f)3
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **Marsden** | **Photocopying and Blueprints** | **$3,020.50** | **$0.00** |

| Item | Approximate Quantity | Unit Price | Total Estimated Cost |
|---|---|---|---|
| **A. General Photocopying** | | | |
| 1. 81/2" x 11" xerox | 30,000 sheets | $0.07 /sheet | $2,100.00 |
| 2. 11" x 17" | 100 sheets | $0.10 /sheet | $10.00 |
| **B. Binding** | | | |
| 1. GBC | 24 bindings | $2.00 /binding | $48.00 |
| 2. Screw and Post | 165 bindings | $1.00 /binding | $165.00 |
| 3. Strip Stapling (24" x 30" Blue Print Sets) | 165 bindings | $0.30 /binding | $49.50 |
| **C. Blue Prints** | | | |
| 1. 24" x 36" | 1,320 prints (6 $ft^2$ each) | $0.07 /$ft^2$ | $554.40 |
| 2. 24" x 36" xerox bond | 24 prints (6 $ft^2$ each) | $0.25 /$ft^2$ | $36.00 |
| 3. 24" x 36" xerox vellum | 24 prints (6 $ft^2$ each) | $0.40 /$ft^2$ | $57.60 |
| | Subtotal - Subcontract Price | | $3,020.50 |
| | Subcontract Management Fee* | | $0.00 |
| | **TOTAL** | | **$3,020.50** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.

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Schedule 2.11(f)4
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **Zebra Environmental Corp.** | **Geoprobe Installation and Sampling** | **$10,731.00** | **$536.55** |

| Item | Max. Reimbursement Rate (Specify Unit) | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **Task 1** | | | |
| **1. General Charges** | | | |
| 1a Mobilization/Demobilization | $1,500.00 lump sum | 1 | $1,500.00 |
| 1b Decontamination | $25.00 /hour | 5 | $125.00 |
| 1c Standby Time | $50.00 /hour | 0 | $0.00 |
| **2. Geoprobe Installation** | | | |
| 2a Boring Installation | $2.00 /foot | 489 | $978.00 |
| 2b Boring Abandonment | $1.00 /foot | 100 | $100.00 |
| **3. Sampling** | | | |
| 3a Soil Samples | $36.00 /each | 67 | $2,412.00 |
| 3b Groundwater Samples | $36.00 /each | 22 | $792.00 |
| **4. Concrete Core Drill** | | | |
| 4a Concrete Core Drill | $185.00 /day | 0 | $0.00 |
| **Task 1 Subtotal** | | | **$5,907.00** |
| **Task 5** | | | |
| **1. General Charges** | | | |
| 1a Mobilization/Demobilization | $1,500.00 lump sum | 1 | $1,500.00 |
| 1b Decontamination | $25.00 /hour | 4 | $100.00 |
| **2. Geoprobe Installation** | | | |
| 2a Boring Installation | $2.00 /foot | 446 | $892.00 |
| 2b Boring Abandonment | $1.00 /foot | 100 | $100.00 |
| **3. Sampling** | | | |
| 3a Soil Samples | $36.00 /each | 47 | $1,692.00 |
| 3b Groundwater Samples | $36.00 /each | 15 | $540.00 |
| **Task 5 Subtotal** | | | **$4,824.00** |
| | | Subtotal - Subcontract Price | $10,731.00 |
| | | Subcontract Management Fee* | $536.55 |
| | | **TOTAL** | **$11,267.55** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.

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Schedule 2.11(f)5
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **SJB Drilling** | **Geotechnical Borings** | **$2,861.00** | |

| Item | Max. Reimbursement Rate (Specify Unit) | | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|---|
| 1 Mobilization/Demobilization | $1,500.00 | lump sum | 1 | $1,500.00 |
| 2 3.25" ID HSAuger | $10.00 | ft | 51 | $510.00 |
| 3 2" Split Spoon | $5.00 | ea | 24 | $120.00 |
| 4 Grouting Boreholes | $6.00 | ft | 51 | $306.00 |
| 5 Decon Split-Spoons | $130.00 | hr | 1.5 | $195.00 |
| 6 Steamclean Drill Rig | $130.00 | hr | 1 | $130.00 |
| 7 Steam Cleaner | $50.00 | day | 1 | $50.00 |
| 8 Drum fill/transport | $25.00 | drum | 2 | $50.00 |
| | | Subtotal - Subcontract Price | | $2,861.00 |
| | | Subcontract Management Fee* | | $0.00 |
| | | **TOTAL** | | **$2,861.00** |

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Schedule 2.11(e)
Cost Plus-Fixed-Fee Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE |
|---|---|---|
| **YEC, Inc.** | **Field Support** | **$27,490.41** |

**A. Direct Salary Costs**

| Professional Responsibility Level | Labor Classification | Year | Average Reimbursement Rate ($/hr) | Year | Maximum Reimbursement Rate ($/hr) | Estimated Number of Hours | Total Estimated Direct Salary Cost |
|---|---|---|---|---|---|---|---|
| Principle | VIII | 1999 | $47.69 | 1999 | $51.51 | 10 | $476.90 |
| Senior Geologist/ Scientist/Engineer/ Licensed Surveyor | V & VI | 1999 | $31.53 | 1999 | $34.68 | 0 | $0.00 |
| Staff Geologist/ Scientist/Engineer | IV | 1999 | $27.40 | 1999 | $30.14 | 0 | $0.00 |
| Staff Geologist/ Scientist/Engineer/ CAD Operator | III | 1999 | $23.78 | 1999 | $26.40 | 335 | $7,966.30 |
| Senior Technician/ Staff Engineer/ Scientist/Geologist/ Senior Draftsperson | II | 1999 | $17.60 | 1999 | $19.71 | 0 | $0.00 |
| Technician/ Draftsperson | I | 1999 | $15.94 | 1999 | $17.85 | 0 | $0.00 |
| **Total Direct Salary Costs:** | | | | | | **345** | **$8,443.20** |

Notes:

1) The 1999 rates will be held firm until 10/31/99.

2) Reimbursement will be limited to the lesser of either individuals actual hourly rate or the maximum rate for each labor category.

3) Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed.

4) Only those labor classifications indicated with an asterisk will be entitled to overtime.

5) Reimbursement for technical time of principals, owners and officers will be limited to

the maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the Federal GS-18 rate, whichever is lower.

Notes (continued):

6) The maximum rates in each labor category can be modified only by mutual agreement and approved by both the Department and the Comptroller.

7) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of Schedule of Prevailing Wage Rates set by the New York State Department of Labor.

8) This Footnote applies to Schedules for years 4 through 7 only. If the U.S. cost-of-living index increases at a rate greater than 6% compounded annually, the maximum salary rates will be subject to renegotiation for future years of the contract. There shall be no retroactive adjustments of payment as a result of renegotiated salary schedules.

**B. Indirect Costs**

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 117% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is: **$9,878.54**

**C. Maximum Reimbursement Rates for Direct Non-Salary Costs:**

| Item | Maximum Reimbursement Rate | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **1. Travel** | | | |
| Lodging/Meals (per diem rate) | $165.00 /day | 30 | $4,950.00 |
| Mileage | $0.315 /mile | 1560 | $491.40 |
| Tolls | $12.00 /day | 12 | $144.00 |
| **2. Expenses** | | | |
| Level D Protection | $11.00 /manday | 70 | $770.00 |
| Photocopies | $0.05 /copy | 100 | $5.00 |
| Postage | $25.00 lump sum | 1 | $25.00 |
| Telephone | $35.00 lump sum | 1 | $35.00 |
| **Total Direct Non-Salary Costs** | | | **$6,420.40** |

**D. Fixed Fee** **$2,748.26**

The fixed fee profit factor is
15% of Total direct and Indirect Salary Costs.

See Schedule 2.10(h) for claiming the fixed fee.

Schedule 2.11 (e)
Cost Plus Fixed-Fee Subcontracts
Active Industrial Site, Lindenhurst, NY

October 4, 1999

| NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE |
|---|---|---|
| YEC, INC. | Survey & CAD Mapping Services | $11,246.54 |

A. Direct Salary Costs

| Professional Responsibilty Level | Labor Classi-fication | Average Reimbursement Rate ($/Hr.) | | Maximum Reimbursement Rate ($/Hr.) | | Estimated Number of Hours | Total Estimated Direct Salary Cost ($) |
|---|---|---|---|---|---|---|---|
| Principal | VIII | 1999 | 47.69 | 1999 | 51.51 | 2 | 95.38 |
| Senior Geologist/Scientist/ Engineer/ Licensed Surveyor | V | 1999 | 31.53 | 1999 | 34.68 | 24 | 756.72 |
| Staff Geologist/ Scientist/Engineer | IV | 1999 | 27.40 | 1999 | 30.14 | 0 | 0.00 |
| Staff Geologist/ Scientist/Engineer/CAD Operator | III | 1999 | 23.78 | 1999 | 26.40 | 70 | 1,664.60 |
| Senior Technician/Staff Engineer/Scientist/Geologist | II | 1999 | 17.60 | 1999 | 19.71 | 0 | 0.00 |
| Technician/Draftsperson | I | 1999 | 15.94 | 1999 | 17.85 | 50 | 797.00 |
| | | | | | | Total Direct Salary Costs: | 3,313.70 |

B. Indirect Costs - 117% of direct salary cost — Indirect Costs: 3,877.03

C. Maximum Reimbursement Rates for Direct Non-Salary Costs:

| Item | Maxium Reimbursement Rate | Estimated No. of Units | |
|---|---|---|---|
| Mileage | 0.31 /mile | 1120 miles | 347.20 |
| Tolls | 11.00 /trip | 5 | 55.00 |
| Survey Equipment Rental | 65.00 /day | 5 days | 325.00 |
| CAD Computer | 15.00 /hour | 20 hours | 300.00 |
| Tele./Postage/Repro./Field supplies | 50.00 lump sum | | 50.00 |
| Aerial Survey and Map* (sub) | 1,900.00 | | 1,900.00 |
| | | Total Direct Non Salary Costs: | 2,977.20 |

D. Fixed Fee (15% of Total Direct and Indirect Salary Costs) — Fixed Fee: 1,078.61

*Assume : scale 1"=100, 2 foot countours, roadway survey app. 2,700 linear feet, 25' either side of proposed pipelines, survey 50' beyond drawn boundary of outlined area of Active site, survey 100' x 100' area beyond roadway survey for groundwater discharge area. On-site tie-in datums will be used for bench marks.

Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 1
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 1 - WORK PLAN DEVELOPMENT

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $2,182.22 | $2,182.22 | $2,182.22 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $3,635.58 | $3,635.58 | $3,635.58 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $5,817.80 | $5,817.80 | $5,817.80 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $188.92 | $188.92 | $188.92 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $188.92 | $188.92 | $188.92 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $6,006.72 | $6,006.72 | $6,006.72 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $290.89 | $290.89 | $290.89 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $6,297.61 | $6,297.61 | $6,297.61 | $0.00 |

Project Manager _____ Date _____
David Kiel

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 2
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 2 - REMEDIAL DESIGN INVESTIGATION

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $10,836.06 | $10,836.06 | $10,836.06 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $18,052.88 | $18,052.88 | $18,052.88 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $28,888.94 | $28,888.94 | $28,888.94 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $189.00 | $189.00 | $189.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $2,879.20 | $2,879.20 | $2,879.20 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $3,068.20 | $3,068.20 | $3,068.20 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $24,553.90<br>$0.00 | $24,553.90<br>$0.00 | $24,553.90<br>$1,151.95 | $0.00<br>$1,151.95 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $56,511.04 | $56,511.04 | $56,511.04 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $1,444.45 | $1,444.45 | $1,444.45 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $59,107.43 | $59,107.43 | $59,107.43 | $0.00 |

Project Manager _____
David Kiel

Date _____

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 3
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 3 - REMEDIAL DESIGN

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $32,265.04 | $32,265.04 | $32,265.04 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $53,753.56 | $53,753.56 | $53,753.56 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $86,018.60 | $86,018.60 | $86,018.60 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $94.50 | $94.50 | $94.50 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $1,695.98 | $1,695.98 | $1,695.98 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $1,790.48 | $1,790.48 | $1,790.48 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $16,507.54<br>$0.00 | $16,507.54<br>$0.00 | $16,507.54<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $104,316.62 | $104,316.62 | $104,316.62 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $3,686.38 | $3,686.38 | $3,686.38 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $108,003.00 | $108,003.00 | $108,003.00 | $0.00 |

Project Manager _____
David Kiel

Date _____

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 4
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 4 - CONSTRUCTION OVERSIGHT

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $35,411.68 | $35,411.68 | $35,411.68 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $58,995.86 | $58,995.86 | $58,995.86 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $94,407.54 | $94,407.54 | $94,407.54 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $1,260.00 | $1,260.00 | $1,260.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $5,788.10 | $5,788.10 | $5,788.10 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $7,048.10 | $7,048.10 | $7,048.10 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $27,690.41<br>$0.00 | $27,690.41<br>$0.00 | $27,690.41<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $129,146.04 | $129,146.04 | $129,146.04 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $4,720.38 | $4,720.38 | $4,720.38 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $133,866.42 | $133,866.42 | $133,866.42 | $0.00 |

Project Manager _____
David Keil

Date _____

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 5
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 5 - PHASE II INVESTIGATIONS

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $8,989.92 | $8,989.92 | $8,989.92 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $14,977.21 | $14,977.21 | $14,977.21 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $23,967.13 | $23,967.13 | $23,967.13 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $790.00 | $790.00 | $790.00 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $790.00 | $790.00 | $790.00 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $518.40<br>$0.00 | $518.40<br>$0.00 | $518.40<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $25,275.53 | $25,275.53 | $25,275.53 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $1,198.36 | $1,198.36 | $1,198.36 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $26,473.88 | $26,473.88 | $26,473.88 | $0.00 |

Project Manager _____
David Keil

Date _____

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: Summary of all tasks
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $89,684.92 | $89,684.92 | $89,684.92 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $149,415.08 | $149,415.08 | $149,415.08 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $239,100.00 | $239,100.00 | $239,100.00 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $1,543.50 | $1,543.50 | $1,543.50 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $11,342.20 | $11,342.20 | $11,342.20 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $12,885.70 | $12,885.70 | $12,885.70 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $69,270.25<br>$1,151.95 | $69,270.25<br>$1,151.95 | $69,270.25<br>$1,151.95 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $321,255.94 | $321,255.94 | $321,255.94 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $11,340.45 | $11,340.45 | $11,340.45 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $333,748.34 | $333,748.34 | $333,748.34 | $0.00 |

Project Manager _____ Date _____
David Kiel

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ENGINEER: CAMP DRESSER & MCKEE
CONTRACT NO: STATE SUPERFUND STANDBY
PROJECT NAME: Active Industrial Uniform
WORK ASSIGNMENT N0: D002925-28.2

DATE PREPARED:
BILLING PERIOD:
PAYMENT NO:

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

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| SUBCONTRACT NAME | SUBCONTRACT COSTS CLAIMED THIS APPLICATION INCLUDING RESUBMITTALS | SUBCONTRACT COSTS APPROVED FOR PAYMENT ON PREVIOUS APPLICATIONS | TOTAL SUBCONTRACT COSTS TO DATE (A+B) | SUBCONTRACT APPROVED BUDGET | MANAGEMENT FEE BUDGET | MANAGEMENT FEE INVOICED | TOTAL COSTS TO DATE (C+F) |
| 1. YEC, Inc. | $0.00 | $0.00 | $0.00 | $38,737.00 | $0.00 | $0.00 | $0.00 |
| 2. H2M Labs | $0.00 | $0.00 | $0.00 | $12,308.00 | $0.00 | $0.00 | $0.00 |
| 3. Chemworld | $0.00 | $0.00 | $0.00 | $1,613.00 | $0.00 | $0.00 | $0.00 |
| 4. Marsden Reproductions | $0.00 | $0.00 | $0.00 | $3,021.00 | $0.00 | $0.00 | $0.00 |
| 5. Zebra Environmental | $0.00 | $0.00 | $0.00 | $10,731.00 | $1,152.00 | $0.00 | $0.00 |
| 6. SJB Drilling | $0.00 | $0.00 | $0.00 | $2,861.00 | $0.00 | $0.00 | $0.00 |
| TOTALS | $0.00 | $0.00 | $0.00 | $69,271.00 | $1,152.00 | $0.00 | $0.00 |

NOTES: (1) COSTS LISTED IN COLUMNS A, B, C & D DO NOT INCLUDE ANY MANAGEMENT FEE COSTS.
(2) MANAGEMENT FEE IS APPLICABLE TO ONLY PROPERLY PROCURED, SATISFACTORILY COMPLETED, UNIT PRICE SUBCONTRACTS OVER $10,000.
(3) LINE 11, COLUMN G SHOULD EQUAL LINE 7 (SUBCONTRACTORS), COLUMN D OF SUMMARY COST CONTROL REPORT.

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28

Date Prepared
Billing Period
Invoice No.

Schedule 2-11(h)
MONTHLY COST CONTROL REPORT
SUMMARY OF LABOR HOURS

| Labor Classification | IX Exp/Est* | VIII Exp/Est* | VII Exp/Est* | VI Exp/Est* | V Exp/Est* | IV Exp/Est* | III Exp/Est* | II Exp/Est* | I Exp/Est* | Tech. Wrtg. Exp/Est* | Adm./Support Exp/Est* | Total No. of Direct Labor Hours Exp/Est* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Task 1 - Work Plan Development | 0 / 0 | 0 / 0 | 0 / 2 | 0 / 22 | 0 / 30 | 0 / 5 | 0 / 0 | 0 / 0 | 0 / 4 | 0 / 2 | 0 / 0 | 0 / 65 |
| Task 2 - Remedial Design Investigation | 0 / 2 | 0 / 0 | 0 / 8 | 0 / 48 | 0 / 140 | 0 / 27 | 0 / 0 | 0 / 64 | 0 / 52 | 0 / 20 | 0 / 20 | 0 / 381 |
| Task 3 - Remedial Design | 0 / 4 | 0 / 10 | 0 / 22 | 0 / 32 | 0 / 80 | 0 / 246 | 0 / 458 | 0 / 100 | 0 / 40 | 0 / 155 | 0 / 30 | 0 / 1177 |
| Task 4 - Construction Oversight | 0 / 6 | 0 / 0 | 0 / 18 | 0 / 58 | 0 / 48 | 0 / 200 | 0 / 860 | 0 / 0 | 0 / 20 | 0 / 20 | 0 / 40 | 0 / 1270 |
| Task 5 - Phase II Investigations | 0 / 1 | 0 / 0 | 0 / 42 | 0 / 12 | 0 / 88 | 0 / 0 | 0 / 138 | 0 / 0 | 0 / 5 | 0 / 8 | 0 / 8 | 0 / 302 |
| Total Hours | 0 / 13 | 0 / 10 | 0 / 92 | 0 / 172 | 0 / 386 | 0 / 478 | 0 / 1456 | 0 / 164 | 0 / 121 | 0 / 205 | 0 / 98 | 0 / 3195 |

*Notes:
Exp = Number of direct labor hours expended to date
Est = Estimated number of direct labor hours to completion

File: o:\guterman\active\2.11hrev.xls)

**New York State Department of Environmental Conservation**
**Division of Environmental Remediation, Room 260B**
50 Wolf Road, Albany, New York 12233-7010
**Phone:** (518) 457-5861 • **FAX:** (518) 485-8404
**Website:** www.dec.state.ny.us

OCT 2 1 1999

OCT 1 9 1999

Ms. Lee Gutterman
Camp Dresser and McKee, Inc.
Raritan Plaza 1, Raritan Center
Edison, NJ 08818

bcc: w/ enclosure
G. Burke
C. Perry
W. Parish, Reg. 1
D. Norvik (2)
bcc: w/o enclosure
M. O'Toole (2)
D. Weigel
R. Schneck, Reg. 1
R. Koelling
R. Knizek
B. Moulhem

Dear Ms. Gutterman:

Re: State Superfund Standby Contract
**Work Plan Amendment Approval**
Work Assignment #D002925-28.2
Active Industrial Uniform, Site #1-52-125

This is to acknowledge receipt of the work plan amendment dated October, 1999 for the above-referenced project. The subject work plan amendment is for Remedial Construction Oversight at the above-mentioned site. The Department hereby approves the work plan amendment and authorizes Camp Dresser and McKee, Inc. to proceed with the project.

The following constitutes the budget for this work assignment:

| | |
|---|---|
| Prior approved work plan budget | $ 307,350 |
| Approved increase in budget for this work plan | $ 26,399 |
| Total approved work plan budget | $ 333,749 |
| Unapproved budget items | |
| Subcontracts | $ 0 |
| Other Items | $ 0 |
| Total work assignment budget | $ 333,749 |

You are authorized to expend only approved budget funds. These funds will not be available for payment until the Office of the State Comptroller (OSC) approves the work plan amendment. This process generally takes approximately four weeks. Unapproved budget items must be included in a revised work plan budget and receive written Department approval before expenditure.

Your firm is hereby given notice to proceed with the work described in this work assignment. All work described shall be completed according to the schedule in the approved work plan.

If you have any questions or comments, please contact Gerard Burke, Project Manager, at (518) 457-9285.

Sincerely,

Michael J. O'Toole, Jr.
Director

15 (12/75)

**New York State Department of Environmental Conservation**

**MEMORANDUM**

**TO:** Michael J. O'Toole, Jr., Director, Division of Environmental Remediation
**FROM:** Robert C. Knizek, Chief, Eastern Field Services Section
THRU: H. Richard Koelling, Director, Bureau of Construction Services
**SUBJECT:** Conceptual Approval of Amendment No. 2 to Work Assignment D002925-28 with Camp, Dresser & McKee (CDM) for Active Industrial Uniform (Site No. 1-52-125) Operable Unit No. 1
**DATE:** AUG 30 1999

Approvals: Contracts Section _____ Date 8/31/99

for Division Director _____ Date 9/1/99

The Bureau of Construction Services requests your conceptual approval of a proposed amendment to the Standby Contract Work Assignment. This amendment will increase the cost for Remedial Design (RD) at the Active Industrial Uniform site. The preliminary estimate for work under Amendment No. 2 is $23,400.00, increasing the cost of the Work Assignment to $304,528.00

**FUND NAME AND COST CENTER:**

Funding Source: 1986 Bond Act
Cost Center: To be assigned.

**CONTRACT AMOUNT AND CONTRACT PERIOD:**

| | |
|---|---|
| Work Assignment (WA) Contract Amount : | $281,128.00 |
| Work Assignment (WA) Amendment Amount : | $ 23,400.00 |
| WA Total: | $ 304,528.00 |

Contract Period: January 1, 1998- December 31, 2000

**GENERAL DISCUSSION AND JUSTIFICATION (BACKGROUND, PURPOSE, SCOPE OF WORK):**

The Active Industrial Uniform site is situated on a one-half acre parcel of land on the south side of West Merrick Road (a/k/a West Montauk Highway, or State Route 27A) in the Village of Lindenhurst, Suffolk County, New York. The property is located near the south shore of Long Island approximately 4,200 feet north of Great South Bay. Little Neck Creek, which flows south to Great South Bay, is located approximately 650 feet southwest of the Active Industrial Uniform property.

The groundwater table is approximately ten feet below ground surface. There is a confining clay layer approximately 70 feet below land surface. The RI/FS identified a shallow plume with concentrations of tetrachloroethene (PCE) as high as 20 ppm and heading southwest toward Little Neck Creek (approximately 800 feet away). Little Neck Creek discharges into the Great South Bay. The original design concept outlined in the Record of Decision (ROD) was two wells, one on-site one off-site 100 yards down gradient each pumping 60 gallons per minute (gpm). The results of the design investigation changed the scope of work for remediation. Contamination of 10 parts per million (ppm) PCE was found in the groundwater three blocks away. Based on this information, the scope of work has been modified. It consists of two wells, one well on-site and one well three blocks away, each pumping at 100 gpm. Due to the extensive change from the original design concept, the increase to the design budget is warranted. This increase specifically will be used for a more complex design treatment train, including additional pumping requirements, larger air stripper and piping. It will also allow for the survey of the pipe line to determine linear feet of necessary pipe and geotechnical borings on-site for footings for the tower and building.

By the terms of an executed Consent Order agreement, the PRP will pay the Department $2,115,000 to implement the remedy selected in the ROD. The remedy includes: a) expansion and continued use of the existing on-site soil vapor extraction system; b) installation of an air sparging system to remediate on-site groundwater and soil; c) installation of a pump and treat system to remediate shallow off-site groundwater.

**ALTERNATIVE:**

None. No feasible method exists to accomplish this work with State personnel.

**AFFIRMATIVE ACTION ISSUES:**

MBE goals = 15 percent
WBE goals = 5 percent
EEO goals = 10 percent female, 10 percent minority

**DEC ORGANIZATIONAL UNITS AND/OR GOVERNMENT AGENCIES INVOLVED:**

Division of Environmental Remediation
Division of Environmental Enforcement
New York State Department of Health

**DEC ATTORNEY AND POTENTIAL LEGAL ISSUES:**

Contract Attorney - Meta Murray
Program Attorney - James Eckl

cc: B. Moulhem - BMWBP

# Active Industrial Uniform Co. Inc.

Lindenhurst, Suffolk County, New York

## Work Plan Amendment No. D002925-28:01
## Remedial Design


RECEIVED
NOV 12 1998

**NYSDEC Site #1-52-125**
**Work Assignment #D002925-28**

Prepared For:

**New York State**
**Department Of Environmental Conservation**
50 Wolf Road, Albany, New York 12233

**John P. Cahill**
Commissioner

Prepared By:

**CDM** Camp Dresser & McKee
100 Crossways Park Drive West
Woodbury, New York 11797-2012

November 1998

**CDM** Camp Dresser & McKee

consulting
engineering
construction
operations

100 Crossways Park West, Suite 415
Woodbury, New York 11797
Tel: 516 496-8400 Fax: 516 496-8864

November 11, 1998

Mr. Gerard Burke, PE
Project Engineer
NYSDEC
Bureau of Eastern Remedial Action
Division of Environmental Remediation
50 Wolf Road
Albany, New York 12233-7010

Subject: Active Industrial Uniform, Lindenhurst, Suffolk County, NY
Site No. 1-52-125: C.T.
Amendment to Work Assignment No. D002925-28

Dear Mr. Burke:

In accordance with your request, Camp Dresser & McKee (CDM) is providing you with six (6) copies of Amendment No. 1 to Work Assignment No. D0024-24.

Total increase to the Work Assignment budget is $35,063, approximately $2,680 less than CDM's initial estimate provided on September 18, 1998.

Feel free to call with any questions or comments.

Very truly yours,

CAMP DRESSER & McKEE

David J. Keil, P.G.
Project Manager

cc: L. Guterman
M. Memoli
T. Fox
File 2.1.2/6.3

o:active\burke5

# SCOPE OF WORK

# Section 2
# Scope of Work

The Active Industrial Uniform Remedial Design will be implemented in accordance with the scope of work as presented in CDM's March 17, 1998 Revised Remedial Design Scope of Work which has been approved by NYSDEC.

## 2.1 Task I Work Plan Development

### *2.1.1 Subtask 1.1 - Data Review and Site Visit*

CDM will review existing reports available from NYSDEC including the Active Industrial Uniform RI/FS Work Plan, RI/FS Reports and the SVES O&M Manual produced by C. T. Male Associates, P. C. CDM will make one copy of the C. T. Male Associates, P.C. reports described above.

One site visit of the facility will be conducted to assess existing conditions, areas of possible investigation, condition/status of existing wells and remediation equipment, and accessibility of drilling equipment.

### *2.1.2 Subtask 1.2 - Project Scoping*

CDM will develop an investigation scope of work to assess the present extent of soil and groundwater contamination at the site and the present extent of offsite groundwater contamination south of the site. The scope of work will also include tasks related to the design and construction oversight of the remedial action recommended in the January 1997 Record of Decision (ROD). The scope will include an estimated budget for each proposed task, based on our experience with similar projects.

A scoping meeting will be held at NYSDEC Albany NY office to discuss CDM's approach, scope and budget. Based on the scoping meeting, CDM will revise the scope and budget and provide up to six copies to NYSDEC for approval.

## 2.2 Task 2 Remedial Design Investigation

### *2.2.1 Subtask 2.1- Draft Work Plan*

Within three weeks of the scoping meeting, CDM will submit a draft site specific Remedial Design Work Plan which will include a project scope, staffing plan, schedule and detailed work assignment budget.

Up to seven copies of the draft Work Plan will be provided to NYSDEC for review and comment.

### *2.2.2 Subtask 2.2 - Final Work Plan and SOP*

Within two weeks of receiving NYSDEC comments, CDM will revise the draft work plan and associated project plans and submit the final work plan and project plans for NYSDEC approval.

CDM will provide the following project plans along with the final work plan:

- Site Operations Plan (SOP)
- Quality Assurance Project Plan (QAPP)
- Health and Safety Plan (HASP)

Upon receiving NYSDEC authorization to proceed with the proposed scope, CDM will develop and execute subcontract agreements with the following subcontractors:

- Field Support Services
- Geoprobe Contractor
- Laboratory
- Data Validation
- Printer

### 2.2.3 Subtask 2.3 - Sample Existing Groundwater Monitoring Wells

In order to define the current extent of groundwater contamination at and down gradient of the site, CDM proposes to collect one round of groundwater samples from the following existing wells: MW-2S, MW-4S, MW-4D, MW-5S, MW-8D and MW-9S. This work would be completed concurrent with Subtask 2.2 and is estimated to take 1 1/2 days to complete. Based on the results of the RI, CDM recommends limiting analysis to TCL volatile organic compounds (VOCs) at listed well locations. However, for the purpose of designing the groundwater pump and treat system, CDM recommends that additional groundwater from MW-2S and MW-4S be collected for TAL Metals, alkalinity, TDS, TSS, and chloride analysis.

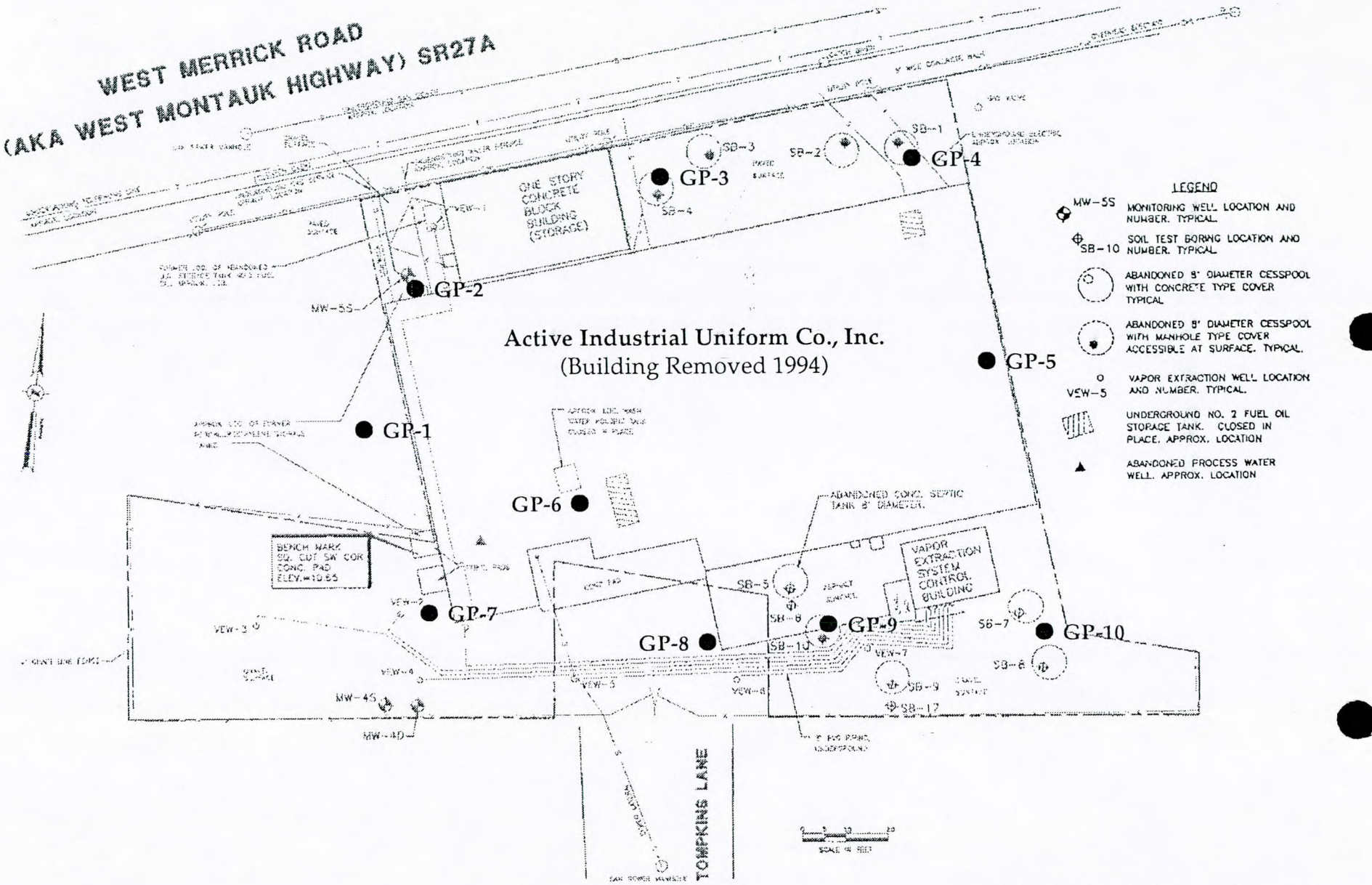
### 2.2.4 Subtask 2.4 - Geoprobe Investigation

In order to assess the nature and extent of soil and groundwater contamination, up to 15 Geoprobe Borings will be completed. The approximate location of each Geoprobe boring is presented in Figures 2-1 and 2-2. However, actual boring locations will be determined in the field. Table 2-1 Summarizes the estimated depth of each boring and the number of samples selected for lab analysis. Ten Geoprobes, up to 24 feet in depth will be completed within the site. Areas requiring investigation include: closed/ removed storage tanks (above ground and below ground) historically used to store dry cleaning solvents (PCE), closed sanitary leaching pools, and an abandoned underground storage tank (UST) historically used to store waste wash water. Additionally, samples will be collected within the area of the current Soil Vapor Extraction System (SVES) in order to assess its effectiveness. All recovered soil and soil gas samples will be screened in the field for the presence of VOCs using an Organic Vapor Monitor (OVM).

### 2.2.5 Subtask 2.5 - Investigation Report

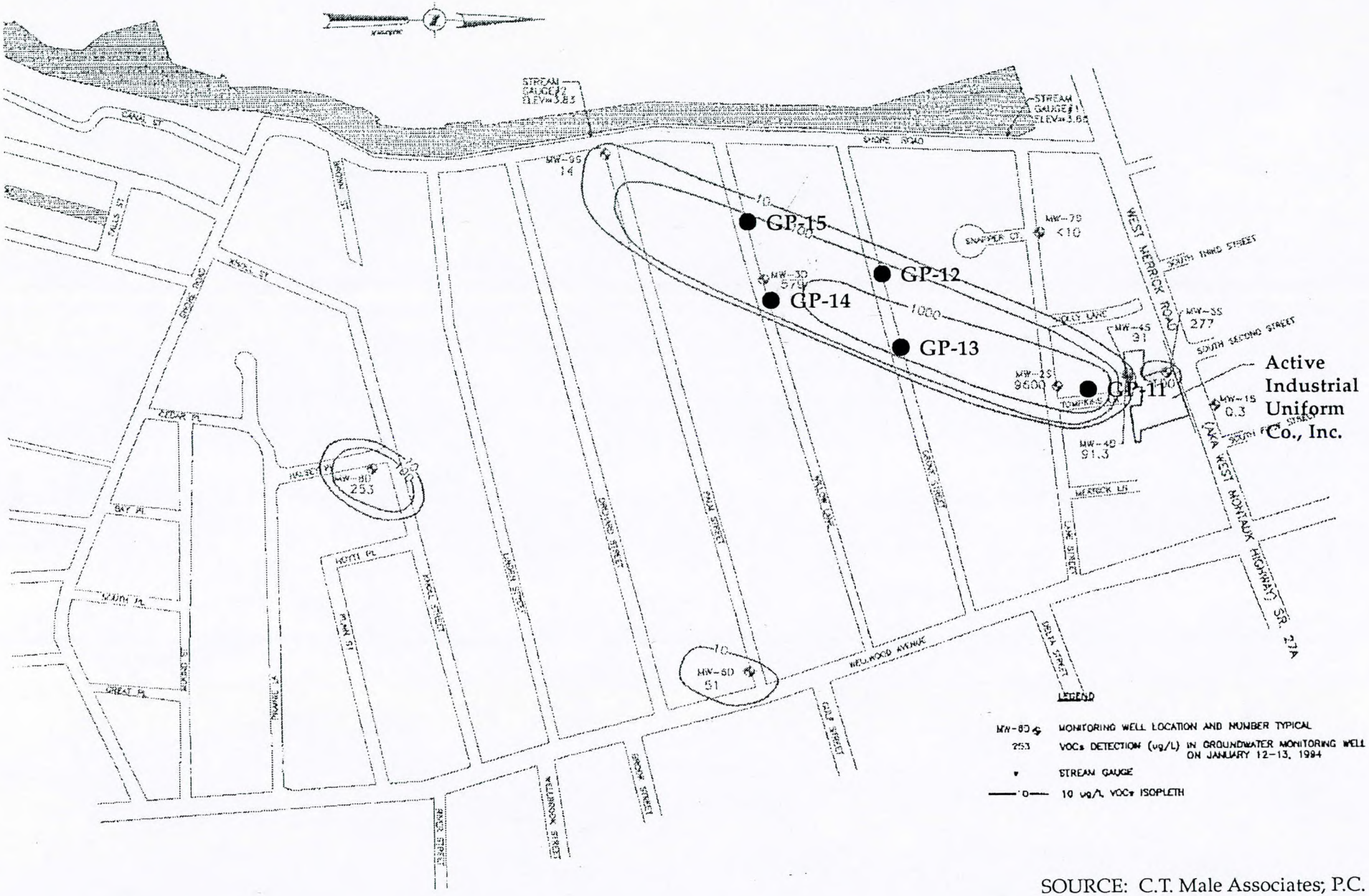
CDM will have a data validator subcontractor provide CDM with a Data Usability Summary Report (DUSR) for all lab data generated under Subtasks 2.3 and 2.4.

Within two weeks of receiving all unvalidated laboratory data associated with subtasks 2.3 and 2.4, CDM will submit an investigation letter report to the NYSDEC summarizing field and lab data.




SOURCE: C.T. Male Associates, P.C.

**Figure 2-1**
**Proposed On-Site Geoprobe Locations**




SOURCE: C.T. Male Associates; P.C.

**Figure 2-2**
**Proposed Off-Site Geoprobe Locations**

**Table 2-1 Geoprobe Boring Summary Table**
**Active Industrial Uniform Remedial Design Investigation**
**NYSDEC Site No. 1-52-125**

| Geoprobe ID | Objective | Estimated Depth (ft) | Number of Soil Samples for TCL VOA Analysis | Number of Groundwater Samples for TCL VOA Analysis |
|---|---|---|---|---|
| GP-1 | Define western limit of soil/GW contamination | 20 | 2 | 1 |
| GP-2 | Assess current VOA soil contamination adjacent to removed PCE UST | 20 | 2 | 0 |
| GP-3 | Assess current VOA contamination at north cess pools | 20 | 2 | 1 |
| GP-4 | Assess current VOA contamination at north cess pools | 20 | 2 | 1 |
| GP-5 | Define eastern limit of soil/GW contamination | 20 | 2 | 1 |
| GP-6 | Assess current VOA contamination at abandoned wash water UST | 24 | 3 | 1 |
| GP-7 | Assess current VOA contamination at removed PCE ASTs | 24 | 3 | 0 |
| GP-8 | Assess effectiveness of SVES IRM | 20 | 2 | 1 |
| GP-9 | Assess current soil/GW contamination at south cess pools - Assess effectiveness of SVES system. | 24 | 3 | 1 |
| GP-10 | Assess current soil/GW contamination at south cess pools | 20 | 2 | 1 |
| GP-11 | Assess shallow aquifer contamination at hot spot | 20 | 0 | 2 |
| GP-12 | Assess shallow aquifer contamination down gradient of hot spot | 24 | 0 | 2 |
| GP-13 | Assess shallow aquifer contamination down gradient of hot spot | 24 | 0 | 2 |
| GP-14 | Assess shallow aquifer contamination down gradient of hot spot | 30 | 0 | 3 |
| GP-15 | Assess shallow aquifer contamination down gradient of hot spot | 30 | 0 | 3 |

CDM will submit this report prior to the receipt of the DUSR in order to expedite the Remedial Design Investigation. The report will include recommendations concerning the remedial actions selected in the 1997 ROD based on the current distribution of contamination. This task will include one project meeting between CDM and NYSDEC at CDM's Woodbury NY Office to discuss any recommended modifications to the selected remedial actions and their impact on the scope and budget of subsequent tasks.

Upon receipt of the DUSR, CDM will forward the report onto the NYSDEC along with a cover letter explaining any changes to the investigation report based on the DUSR findings.

### 2.2.6 Task 2 Assumptions

- Based on previous work assignments, CDM anticipates NYSDEC will secure all necessary State and local permits required to complete the offsite Geoprobe borings.
- Up to five Geoprobes will be completed downgradient of the site in order to collect only groundwater samples. Offsite Geoprobes will range in depth from 24 to 32 feet.
- Analysis of all Geoprobe soil and groundwater samples will be limited to TCL VOAs. CDM proposes to collect up to 25 soil samples, 24 groundwater samples, inclusive of QA/QC samples. Turnaround for lab data packages will be four weeks from receipt of last sample by the lab.
- CDM will plot completed Geoprobe locations on an existing survey, provided by NYSDEC.
- Up to seven copies of the draft Work Plan will be provided to NYSDEC. Up to seven copies of the final Work Plan along with the SOP, QAPP and HASP will be provided to the NYSDEC.
- NYSDEC will provide CDM with a key to unlock all existing groundwater monitoring wells. All monitoring wells to be sampled as part of Subtask 2.3 are currently in existence and are capable of being purged and sampled using a 2-inch submersible pump.
- CDM has budgeted 10 labor hours for a Grade II Geologist and 16 labor hours for a Grade I Technician to perform the groundwater sampling.
- CDM has budgeted 48 labor hours for a Grade II Geologist to perform the geoprobe sampling and has estimated this subtask to take no more than five days to complete.
- All purge water and decontamination water generated as part of Subtasks 2.3 and 2.4 can be discharged to the ground.
- NYSDEC will be responsible for providing CDM with information concerning all onsite underground utilities. CDM will be responsible for all offsite utility clearance.
- CDM has budgeted 32 labor hours for a Grade IV Geologist and 10 labor hours for a Grade IV Engineer to draft the Investigation Report. The report will consist of a letter report not to exceed ten (10) pages in length.

## 2.3 Task 3 - Remedial Design

The design of the remedial systems for the site will be based on the NYSDEC selected remedy as summarized in the 1997 ROD, and data obtained in Task 2. The scope and estimated cost for Task 3 - Remedial Design are based on the details provided in the C.T. Male Associates Feasibility Study Report (FS), dated November 8, 1996 for selected Remedial Alternative 11. Pilot testing to confirm the design assumptions made during the FS, for both the groundwater treatment system and air sparging/vapor extraction system, is not included as part of this work. The design assumptions presented in the FS will be used as the basis of design for all remedial components unless the results of the data collected as part of Task 2 indicate that they are no longer appropriate. It is not expected that major changes will be required to the selected remedial approach. However, if design modifications beyond the scope of the design provided here are required, CDM will provide a scope and cost estimate to NYSDEC for any additional services prior to initiating the design task. The selected remedial alternative includes:

- Expansion of the existing soil vapor extraction system (SVES), which would include the installation of 6 new onsite SVES wells, associated piping, moisture controls, filter system and an additional vacuum blower. The expanded system would require additional carbon adsorption units and would require the expansion of the existing control building.

- Installation of an air sparging system, including 16 onsite sparging wells approximately 30 feet deep, associated piping and an air compressor. Expansion of the existing control building or provision of a new enclosure for the air sparging equipment would be required.

- Installation of a groundwater pump and treat system, which includes the installation of 4 groundwater extraction wells approximately 200 feet south of the site, each capable of pumping a minimum of 15 gpm, for a total extraction rate of approximately 60 gpm. Extracted groundwater would be piped back to the site for treatment by an air stripping unit capable of treating groundwater with a total VOC concentration of 4 to 12 ppm and a treated effluent PCE concentration of 1 ppb. It should be noted that the projected influent concentration to the air stripper presented above is based upon the FS. It is possible that this estimated influent concentration may be modified pending the results of the Geoprobe investigation undertaken in Task 2. Treated groundwater would be discharged through an effluent pipeline to a storm water sewer located on Montauk Highway, eventually emptying into Little Neck Creek. It is anticipated that air emissions from the air stripper would be treated with vapor phase activated carbon. Expansion of the existing control building to accommodate this equipment would be required.

In order to control vapors from the air sparging system, provisions will be made to automatically coordinate the operation of the SVES with the air sparging system. The two systems would be electronically interconnected in such a way that any shut down of the SVES would cause the air sparging system to shut down. This would prevent the migration of vapors that may occur during air sparging without vapor extraction. An autodialer will be provided to signal system failures to a remote location when personnel are not present on the site. The design scope presented here

assumes that the systems would remain shut down until restarted manually and the operation of the systems will be manual.

In addition to the wells required for the selected remediation system, CDM recommends that a number of vapor monitoring and groundwater monitoring wells be installed to monitor the effectiveness of the proposed design. Up to eight shallow monitoring wells would be installed onsite to monitor the performance of the SVES and air sparging system. Three shallow groundwater monitoring wells would be installed offsite to monitor the effectiveness of the groundwater extraction system.

CDM's design scope and estimated budget assumes NYSDEC will provide CDM with an existing site survey on AutoCAD and that surveying services will not be required during the Remedial Design Task. If a survey is not available, CDM has provided NYSDEC with a surveying scope and estimated cost under our additional scope items. CDM assumes that all required construction permits and discharge permits will be obtained by the contractor selected by NYSDEC to complete the construction.

### 2.3.1 Subtask 3.1 - Preliminary Design (35 Percent Documents)

This subtask includes further developing the selected remediation system described above. Within 4 weeks of being issued a notice to proceed with the design task, CDM will submit to NYSDEC a conceptual design report along with preliminary construction plans and specifications when the design is approximately 35 percent complete. Supporting data, documentation and design calculations will also be submitted. These documents will cover all components of the selected remedial alternative. Four copies of the preliminary design documents will be provided to NYSDEC for review.

All components of the remedial design (groundwater pump and treat, air sparging, and vapor extraction) will be included in one set of design documents. The documents will reflect the need for two prime construction contracts, general and electric.

Two weeks after submission of the preliminary design documents a meeting will be held at the CDM Woodbury, New York office to discuss NYSDEC comments. It is assumed that one round of written NYSDEC comments will be addressed under subtask 3.2

### 2.3.2 Subtask 3.2 - Final Design (95 Percent and Biddable Documents)

Within 8 weeks of receiving NYSDEC comments on the conceptual design, CDM will submit up to six copies of the final design documents to NYSDEC for review. This 95 percent submittal will include plans and specifications. These documents will cover all components of the selected remedial action and will include the project pre-bid construction cost estimate. This submittal will also include a bid package including a bid schedule, estimated quantities, an explanation of each bid item and the measurement and payment sections.

The specifications will require the remedial contractor to prepare and provide a site specific health and safety plan (HASP) for construction to ensure sufficient protection of on-site personnel and the community during the site cleanup activities.

CDM will address one set of written comments on the 95 percent design documents. Within 2 weeks of receiving comments, one hundred and twenty five (125) sets of biddable documents, sealed by the professional engineer responsible for the design, will be submitted to NYSDEC following the incorporation of these final comments.

### 2.3.3 Subtask 3.3 - Bidding

This scope of work assumes NYSDEC will not require CDM's assistance in bid advertisement.

CDM will assist the NYSDEC in conducting an on-site pre-bid conference with prospective bidders. At the pre-bid conference, CDM will introduce the project work to the prospective bidders, conduct a tour of the project site and answer questions.

CDM will prepare up to two addenda to the plans and specifications, for timely submittal by the NYSDEC to the prospective bidders. CDM will respond, in writing, to NYSDEC addressing questions from prospective bidders.

CDM will review the bids received to identify the lowest responsive, responsible bidder, identify bid irregularities and tabulate bids. CDM will notify the NYSDEC of bid irregularities and of unbalanced or non-responsive bids. CDM will submit to the NYSDEC a recommendation for award of the remedial construction contract, the basis for the recommendation, and a discussion of significant issues concerning the bids. CDM will also review all submittals included with the bids required by the contract documents.

### 2.3.4 Task 3 Assumptions

- Engineering design costs are based on the remedial approach outlined in the ROD. If the pre-design field investigation indicates the need for major design modifications, the design budget will need to be re-assessed prior to initiating the design.
- One round of NYSDEC written comments will be addressed at the 35 percent and 95 percent design milestones.
- One meeting will be held at the NYSDEC offices in Albany to discuss the 35 percent submittal. No meeting will be held at the 95 percent design milestone.

## 2.4 Task 4 Construction Oversight

### 2.4.1 Subtask 4.1 - Construction Oversight

CDM will attend a pre-construction meeting with the contractor selected by NYSDEC to perform the construction. The meeting will outline the responsibilities of the contractor CDM and NYSDEC; requirements for all submittals; and the procedures for review and approval of submittals.

CDM has estimated the construction will take approximately 6 months to complete. Therefore, CDM will provide one full time resident project representative to oversee all construction operations for a period not to exceed six months. Based on the current design, CDM will be responsible for conducting bi-weekly progress meetings; make onsite inspections to check the quality of work and to determine if the work is proceeding in accordance with contract documents; write clarifications and interpretations of the contract documents for the contractor; authorize field orders for variations in work; review change orders; reject defective work; review and approve applications for payment from the contractor; make determinations of actual quantities and classifications of work; and review and approve shop drawings.

### 2.4.2 Subtask 4.2 - Develop Record Drawings

Within 3 weeks of completing all construction activities, CDM will submit up to 10 paper copies of record drawings of the installed system to NYSDEC.

### 2.4.3 Subtask 4.3 - System Start Up

Upon completing the remediation system construction, CDM will conduct start up operations with the assistance of the construction contractor over a two week period to ensure all systems are working properly and all systems can work simultaneously. The contractor will be responsible for making all necessary adjustments/modifications to the systems to ensure the system is working in accordance with design criteria.

### 2.4.4 Subtask 4.4 - Develop O&M Manual

Within 3 weeks of completing the system startup, CDM will submit four copies of a draft Operation and Maintenance Plan for all installed remediation systems to NYSDEC. The O&M Plan will include an environmental monitoring plan. CDM's cost estimate assumes that the existing O&M manual for the present SVES system will be available for CDM's use and that it will only require minor modifications to reflect the SVES expansion. The O&M plan will also include sections on the groundwater pump and treat system and the sparge system. CDM will address one set of written comments from NYSDEC on the plan. Four copies of the final plan will be submitted to NYSDEC within one week of receipt of all comments.

### 2.4.5 Subtask 4.5 - Certification Report

Within 3 weeks of completing the system startup, four copies of a draft Certification Report will be provided. The Certification Report will provide a narrative summarizing construction activities with emphasis placed on any changes or alterations to the original design that occurred during the construction. CDM will provide a certification statement with regard to the system construction and operation. The Certification Report will consist of a brief letter report. CDM will address one round of written comments on the draft Certification Report and provide four copies of the final report within one week of receiving the comments.

### 2.4.6 Task 4 Assumptions

- CDM has budgeted for a full time Geologist to oversee all well installation activities as part of construction oversight. CDM has estimated this activity to take up to six weeks to complete.

- CDM has budgeted for a full time engineer to perform resident engineering duties as part of the construction oversight. CDM has estimated that construction activities will take approximately 4 1/2 months to complete, not including the six weeks estimated to complete well installation.

- The construction documents will stipulate the selected construction contractor will provide a field trailer with office space dedicated to the CDM resident engineer/geologist for the duration of construction activities.

- CDM has budgeted for a full time engineer to perform the system start up, scheduled to take two weeks.

- CDM has budgeted up to 76 labor hours for a Grade III Engineer to develop the Operations and Maintenance Manual. This estimate assumes that the existing O & M Manual will only require minor modifications to reflect the SVES expansion. Up to four draft copies and four final copies will be provided to NYSDEC.

## 2.5 Task 5 Phase II Investigation

During an August 16, 1998 progress meeting, NYSDEC directed CDM to develop a scope of work to perform additional investigations to better define the extent of soil contamination within onsite leaching pools and to define the extent of VOC groundwater contamination downgradient of the site.

### 2.5.1 Subtask 7.1 Scoping and Project Management

CDM will develop a scope and budget to perform additional Remedial Design Investigations (Phase II Investigation ). Upon approval of the proposed scope and budget, CDM will draft an amendment to CDM's current work assignment budget formally adding all approved scope activities and associated budgets. This activity also includes administrative and project management budgets associated with the additional scope presented below.

### 2.5.2 Subtask 7.2 Geoprobe Investigation

CDM will complete an additional 11 Geoprobe borings within the Active site and an additional 5 Geoprobe borings within the residential area south of the site. Sampling procedures will be consistent with the approved Work Plan and SOP/QAPP.

Seven onsite borings will be placed through onsite septic/leaching pool leaching rings that have yet to be sampled during the initial investigation. The objective of these borings will be to assess the total thickness of contaminated sediments within the inactive pools and to estimate the approximate quantity of unsaturated sediment that can be removed from each pool. Additionally, CDM will complete up to four borings immediately outside selected pools in order to assess soil conditions out side of each pool. Each boring will be approximately 16 feet deep with continuous soil samples collected. Soil samples will be screened in the field for total VOCs. One soil sample per boring will

be selected for TCL volatile organic (VOC) analysis. Additionally, one soil sample exhibiting the highest contamination, based on field screening, will be selected for waste characterization analysis, including: full TCLP parameters, cyanide, sulfide, reactivity, pH, ignitability and corrosivity. A second sample exhibiting moderate contamination will also be selected for TCLP VOA analysis.

Up to five offsite borings will be completed to better define groundwater contamination previously identified at GP-14. The most significant contamination was observed at 36-40 feet below grade at this location; therefore, groundwater samples will be collected at intervals of 24-30, 36-40 and 46-50 feet and analyzed for TCL VOAs. No soil samples will be collected at offsite borings. A total of 9 groundwater samples will be collected from the first three offsite borings and analyzed with a 48 hour turnaround. Based on the results of this analysis, the location of the remaining two offsite borings will be selected. In addition to VOA analysis, up to three groundwater samples will also be selected for TAL metals and conventional parameter analysis in order to obtain data to assess possible pretreatment requirements of groundwater.

### 2.5.3 Subtask 7.3 Groundwater Modeling

CDM proposes to use CDM's finite element code DYNFLOW to develop the model of the site. DYNFLOW has been used on numerous State and Federal Superfund sites, and represents the state-of-the-art in groundwater flow modeling. CDM will develop a site specific groundwater model for the site and downgradient residential area extending to the Great South Bay and Little Neck Creek to the west of the site. This model will be developed from CDM's existing Suffolk County regional model, with consent from the Suffolk County Department of Health Services, saving considerable time and expense.

The primary purpose of the model will be to examine possible onsite and offsite pumping scenarios that could be implemented in controlling the VOC contamination. In addition, the model will:

- Provide additional insight into the fate and transport of the VOC plume within the Upper Glacial aquifer, including providing likely discharge points of the plume and its likely concentration at discharge points.
- Provide design data currently unavailable, such as well pumping rates, that will be needed to design a proper groundwater capture system.
- Estimate cleanup durations that will assist in estimating operation and maintenance costs of the pump and treatment system.

The specific modeling scope of work consists of the following tasks.

*Data Collection and Conceptual Model*
Existing data from the RI report will be reviewed, supplemented by available regional hydrologic reports. Following review of the data and information, a conceptual model of the site will be developed that includes the proposed layering scheme, grid spacing, and boundary conditions. Up to two rounds of groundwater measurements will be collected from up to six existing monitoring wells and two existing stream gaging stations. This data will be needed in the calibration of the model.

*Model Development and Calibration*
A 3-dimensional model of the site will be developed with up to five layers. The model will be based on CDM's current Suffolk County regional model. The model will include a variable grid spacing with a suitably fine grid at the site, and a coarser grid extending out to the selected model boundaries. The model will use initial estimates of hydraulic conductivities based on settings currently used in the regional model. The model will account for public supply well pumping as well as pumping at the nearby bowling alley, located approximately 200 feet east of the site. These estimates will be refined during calibration of the model using the two sets of synoptic water levels taken at the site. Included in this task are up to six sensitivity simulations to test the sensitivity of the model to boundary conditions and changes in hydraulic conductivity.

*Model Simulations*
The model will be used to better define the extent and depth of the VOC plume downgradient of the site. It will provide the most likely discharge points of the VOC plume along with estimated VOC concentrations at the discharge points. The model will be used to test up to eight different scenarios or alternative designs for pumping wells, including: pumping onsite only, pumping offsite only, and simultaneous pumping at onsite and offsite locations. Optimum well configurations and pumping rates will be assessed.

### 2.5.4 Subtask 7.4 Phase II Report

Within two weeks of receiving all unvalidated laboratory data, CDM will submit an investigation letter report to the NYSDEC summarizing field and lab data collected as part of the Phase II Investigation. The report will also summarize findings of the completed modeling simulations. The report will describe the model structure and calibration, describe the flow system beneath the site, and the VOC plume distribution. The report will include conclusions and recommendations.

CDM has budgeted one meeting at CDM's Woodbury NY office to discuss the findings of the Phase II Investigation and modeling studies.

Under the report task, CDM will have a data validator subcontractor provide CDM with a Data Usability Summary Report (DUSR) for all VOC lab data generated as part of the investigation.

# BUDGET SUMMARY
# (211 SCHEDULES)

Schedule 2.11(a)
Summary of Work Assignment Price
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| | | | |
|---|---|---|---|
| 1. | Direct Salary Costs (Schedules 2.11(b) and 2.11(g)) | | $85,075 |
| 2. | Indirect Costs (Schedule 2.11(g)) | | $141,734 |
| 3. | Direct Non-Salary Costs (Schedules 2.11(c)(d)) | | $12,886 |
| | Subcontract Costs | | |
| | Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.11(e)) | | |
| | Name of Subcontractor | Services To Be Performed | Subcontract Price |
| | A. YEC, Inc. | Field Support | $27,490 |
| 4. | Total Cost-Plus-Fixed-Fee Subcontracts | | $27,490 |
| | Unit Price Subcontracts (Schedule 2.11(f)) | | |
| | Name of Subcontractor | Services To Be Performed | Subcontract Price |
| | A. $H_2M$ Labs | Analytical Laboratory | $12,308 |
| | B. Chem World | "Data Validation" (DUSR preparation) | $1,613 |
| | C. Marsden Reproductions, Inc. | Photocopying and Blueprints | $3,021 |
| | D. Zebra Environmental Corporation | Geoprobe Installation and Sampling | $10,731 |
| 5. | Total Unit Price Subcontracts | | $27,672 |
| 6. | Subcontract Management Fee (Schedule 2.11(f)) | | $1,152 |
| 7. | Total Subcontract Costs (lines 4+5+6) | | $56,315 |
| 8. | Fixed Fee (Schedule 2.11(g)) | | $11,340 |
| 9. | Total Work Assignment Price (Lines 1+2+3+7+8) | | $307,350 |

Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28

Schedule 2.11 (b)

| NSPE | | IX | VIII | VII | VI | V | IV | III | II | I | Technical Report Typing | Admin./ Support | Total Est. Hours | Total Est. LOE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Salary Rates | 1998 | $57.99 | $52.15 | $43.26 | $39.15 | $32.34 | $30.28 | $24.68 | $22.21 | $18.85 | $18.70 | $18.70 | | |
| Average Salary Rates | 1999 | $60.89 | $54.76 | $45.42 | $41.11 | $33.95 | $31.79 | $25.91 | $23.31 | $19.79 | $19.64 | $19.64 | | |
| **Task 1 Work Plan Development (1998 rate schedule)** | | **0** | **0** | **2** | **22** | **30** | **5** | **0** | **0** | **4** | **2** | **0** | **65** | **$2,182.22** |
| **Task 2 Remedial Design Investigation (1998 rate schedule)** | | **2** | **0** | **8** | **48** | **140** | **27** | **0** | **64** | **52** | **20** | **20** | **381** | **$10,836.06** |
| **Task 3 Remedial Design (1999 rate schedule)** | | **4** | **10** | **12** | **32** | **80** | **188** | **368** | **100** | **40** | **156** | **30** | **1020** | **$27,654.76** |
| **Task 4 Construction Oversight (1999 rate Schedule)** | | **6** | **0** | **18** | **58** | **48** | **200** | **860** | **0** | **20** | **20** | **40** | **1270** | **$35,411.68** |
| **Task 5 Phase II Investigations (1998 rate schedule)** | | **1** | **0** | **42** | **12** | **88** | **0** | **138** | **0** | **5** | **8** | **8** | **302** | **$8,989.92** |
| | | | | | | | | | | | | | | |
| Subtotal 1998 Hours | | 3 | 0 | 52 | 82 | 258 | 32 | 138 | 64 | 61 | 30 | 28 | 748 | |
| Subtotal 1999 Hours | | 10 | 10 | 30 | 90 | 128 | 388 | 1228 | 100 | 60 | 176 | 70 | 2290 | |
| **Estimated Labor Hours** | | **13** | **10** | **82** | **172** | **386** | **420** | **1366** | **164** | **121** | **206** | **98** | **3038** | |
| **Estimated Cost** | | **$782.87** | **$547.60** | **$3,612.12** | **$6,910.20** | **$12,689.32** | **$13,303.48** | **$35,223.32** | **$3,752.44** | **$2,337.25** | **$4,017.64** | **$1,898.40** | | **$85,074.64** |

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28

Schedule 2.11 (b-1)

| NSPE | | IX | VIII | VII | VI | V | IV | III | II | I | Technical Report Typing | Admin./ Support | Total Est. Hours | Total Est. LOE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average Salary Rates | 1998 | $57.99 | $52.15 | $43.26 | $39.15 | $32.34 | $30.28 | $24.68 | $22.21 | $18.85 | $18.70 | $18.70 | | |
| Average Salary Rates | 1999 | $60.89 | $54.76 | $45.42 | $41.11 | $33.95 | $31.79 | $25.91 | $23.31 | $19.79 | $19.64 | $19.64 | | |
| **Task 1 Work Plan Development (1998 rate schedule)** | | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **$0.00** |
| **Task 2 Remedial Design Investigation (1998 rate schedule)** | | **2** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **0** | **2** | **10** | **18** | **$496.98** |
| **Task 3 Remedial Design (1999 rate schedule)** | | **4** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **0** | **8** | **15** | **31** | **$859.72** |
| **Task 4 Construction Oversight (1999 rate Schedule)** | | **6** | **0** | **0** | **12** | **0** | **0** | **0** | **0** | **0** | **8** | **20** | **46** | **$1,408.58** |
| **Task 5 Phase II Investigations (1998 rate schedule)** | | **1** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **0** | **2** | **8** | **15** | **$401.59** |
| Subtotal 1998 Hours | | 3 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 4 | 18 | 33 | |
| Subtotal 1999 Hours | | 10 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 16 | 35 | 77 | |
| **Estimated Labor Hours** | | **13** | **0** | **0** | **24** | **0** | **0** | **0** | **0** | **0** | **20** | **53** | **110** | |
| **Estimated Cost** | | **$782.87** | **$0.00** | **$0.00** | **$970.96** | **$0.00** | **$0.00** | **$0.00** | **$0.00** | **$0.00** | **$389.04** | **$1,024.00** | | **$3,166.87** |

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 1
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 1 - WORK PLAN DEVELOPMENT

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $2,182.22 | $2,182.22 | $2,182.22 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $3,635.58 | $3,635.58 | $3,635.58 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $5,817.80 | $5,817.80 | $5,817.80 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $188.92 | $188.92 | $188.92 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $188.92 | $188.92 | $188.92 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $6,006.72 | $6,006.72 | $6,006.72 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $290.89 | $290.89 | $290.89 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $6,297.61 | $6,297.61 | $6,297.61 | $0.00 |

Project Manager _____ Date _____
David Kiel

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 2
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 2 - REMEDIAL DESIGN INVESTIGATION

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $10,836.06 | $10,836.06 | $10,836.06 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $18,052.88 | $18,052.88 | $18,052.88 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $28,888.94 | $28,888.94 | $28,888.94 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $189.00 | $189.00 | $189.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $2,879.20 | $2,879.20 | $2,879.20 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $3,068.20 | $3,068.20 | $3,068.20 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $24,553.90<br>$0.00 | $24,553.90<br>$0.00 | $24,553.90<br>$1,151.95 | $0.00<br>$1,151.95 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $56,511.04 | $56,511.04 | $56,511.04 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $1,444.45 | $1,444.45 | $1,444.45 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $59,107.43 | $59,107.43 | $59,107.43 | $0.00 |

Project Manager _____ Date _____
David Kiel

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 3
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 3 - REMEDIAL DESIGN

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $27,654.76 | $27,654.76 | $27,654.76 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $46,072.83 | $46,072.83 | $46,072.83 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $73,727.59 | $73,727.59 | $73,727.59 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $94.50 | $94.50 | $94.50 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $1,695.98 | $1,695.98 | $1,695.98 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $1,790.48 | $1,790.48 | $1,790.48 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $2,400.00<br>$0.00 | $2,400.00<br>$0.00 | $2,400.00<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $77,918.07 | $77,918.07 | $77,918.07 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $3,686.38 | $3,686.38 | $3,686.38 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $81,604.45 | $81,604.45 | $81,604.45 | $0.00 |

Project Manager _____ Date _____
David Kiel

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 4
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 4 - CONSTRUCTION OVERSIGHT

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $35,411.68 | $35,411.68 | $35,411.68 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $58,995.86 | $58,995.86 | $58,995.86 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $94,407.54 | $94,407.54 | $94,407.54 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $1,260.00 | $1,260.00 | $1,260.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $5,788.10 | $5,788.10 | $5,788.10 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $7,048.10 | $7,048.10 | $7,048.10 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $27,690.41<br>$0.00 | $27,690.41<br>$0.00 | $27,690.41<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $129,146.04 | $129,146.04 | $129,146.04 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $4,720.38 | $4,720.38 | $4,720.38 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $133,866.42 | $133,866.42 | $133,866.42 | $0.00 |

Project Manager _____ Date _____
David Keil

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: 5
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
TASK 5 - PHASE II INVESTIGATIONS

| Expenditure Category | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| | Costs Claimed This Period | Paid to Date | Total Disallowed to Date | Total Costs Incurred to Date (A+B+C) | Estimated Costs to Completion | Estimated Total Work Assignment Price (A+B+E) | Approved Budget | Estimated Under/Over (G-F) |
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $8,989.92 | $8,989.92 | $8,989.92 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $14,977.21 | $14,977.21 | $14,977.21 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $23,967.13 | $23,967.13 | $23,967.13 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $790.00 | $790.00 | $790.00 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $790.00 | $790.00 | $790.00 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $518.40<br>$0.00 | $518.40<br>$0.00 | $518.40<br>$0.00 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $25,275.53 | $25,275.53 | $25,275.53 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $1,198.36 | $1,198.36 | $1,198.36 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $26,473.88 | $26,473.88 | $26,473.88 | $0.00 |

Project Manager _____ Date _____
David Keil

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28
Task #: Summary of all tasks
Complete: 0%

Date Prepared
Billing Period
Invoice No.

Schedule 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY

| Expenditure Category | A<br>Costs Claimed This Period | B<br>Paid to Date | C<br>Total Disallowed to Date | D<br>Total Costs Incurred to Date (A+B+C) | E<br>Estimated Costs to Completion | F<br>Estimated Total Work Assignment Price (A+B+E) | G<br>Approved Budget | H<br>Estimated Under/Over (G-F) |
|---|---|---|---|---|---|---|---|---|
| 1. Direct Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $85,074.64 | $85,074.64 | $85,074.64 | $0.00 |
| 2. Indirect Costs 166.6 % | $0.00 | $0.00 | $0.00 | $0.00 | $141,734.35 | $141,734.35 | $141,734.35 | $0.00 |
| 3. Subtotal Direct Salary Costs and Indirect Costs | $0.00 | $0.00 | $0.00 | $0.00 | $226,808.99 | $226,808.99 | $226,808.99 | $0.00 |
| 4. Travel | $0.00 | $0.00 | $0.00 | $0.00 | $1,543.50 | $1,543.50 | $1,543.50 | $0.00 |
| 5. Other Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $11,342.20 | $11,342.20 | $11,342.20 | $0.00 |
| 6. Subtotal Direct Non-Salary Costs | $0.00 | $0.00 | $0.00 | $0.00 | $12,885.70 | $12,885.70 | $12,885.70 | $0.00 |
| 7. Subcontractors<br>7a. Subcontract Mgt. Fee | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $0.00<br>$0.00 | $55,162.71<br>$1,151.95 | $55,162.71<br>$1,151.95 | $55,162.71<br>$1,151.95 | $0.00<br>$0.00 |
| 8. Total Work Assignment Cost | $0.00 | $0.00 | $0.00 | $0.00 | $294,857.40 | $294,857.40 | $294,857.40 | $0.00 |
| 9. Fixed Fee | $0.00 | $0.00 | $0.00 | $0.00 | $11,340.45 | $11,340.45 | $11,340.45 | $0.00 |
| 10. Total Work Assignment Price | $0.00 | $0.00 | $0.00 | $0.00 | $307,349.80 | $307,349.80 | $307,349.80 | $0.00 |

Project Manager _____ Date _____
David Kiel

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Engineer: Camp Dresser & McKee
Project Name: Active Industrial Uniform Remedial Design Investigation
Work Assignment No.: D002925-28

Date Prepared
Billing Period
Invoice No.

Schedule 2-11(h)
MONTHLY COST CONTROL REPORT
SUMMARY OF LABOR HOURS

| Labor Classification | IX Exp/Est* | VIII Exp/Est* | VII Exp/Est* | VI Exp/Est* | V Exp/Est* | IV Exp/Est* | III Exp/Est* | II Exp/Est* | I Exp/Est* | Tech. Wrtg. Exp/Est* | Adm./Support Exp/Est* | Total No. of Direct Labor Hours Exp/Est* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Task 1 - Work Plan Development | 0 / 0 | 0 / 0 | 0 / 2 | 0 / 22 | 0 / 30 | 0 / 5 | 0 / 0 | 0 / 0 | 0 / 4 | 0 / 2 | 0 / 0 | 0 / 65 |
| Task 2 - Remedial Design Investigation | 0 / 2 | 0 / 0 | 0 / 8 | 0 / 48 | 0 / 140 | 0 / 27 | 0 / 0 | 0 / 64 | 0 / 52 | 0 / 20 | 0 / 20 | 0 / 381 |
| Task 3 - Remedial Design | 0 / 4 | 0 / 10 | 0 / 12 | 0 / 32 | 0 / 80 | 0 / 188 | 0 / 368 | 0 / 100 | 0 / 40 | 0 / 156 | 0 / 30 | 0 / 1020 |
| Task 4 - Construction Oversight | 0 / 6 | 0 / 0 | 0 / 18 | 0 / 58 | 0 / 48 | 0 / 200 | 0 / 860 | 0 / 0 | 0 / 20 | 0 / 20 | 0 / 40 | 0 / 1270 |
| Task 5 - Phase II Investigations | 0 / 1 | 0 / 0 | 0 / 42 | 0 / 12 | 0 / 88 | 0 / 0 | 0 / 138 | 0 / 0 | 0 / 5 | 0 / 8 | 0 / 8 | 0 / 302 |
| Total Hours | 0 / 13 | 0 / 10 | 0 / 82 | 0 / 172 | 0 / 386 | 0 / 420 | 0 / 1366 | 0 / 164 | 0 / 121 | 0 / 206 | 0 / 98 | 0 / 3038 |

*Notes:
Exp = Number of direct labor hours expended to date
Est = Estimated number of direct labor hours to completion

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Schedule 2.11(c)
Direct Non-Salary Costs
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| Item | Max. Reimbursement Rate (Specify Unit) | Est. No. of Units | Total Estimated Cost |
|---|---|---|---|
| Mailings | $0.32 /letter | 60 letters | $19.20 |
| Letter Packages | $4.00 /package | 75 packages | $300.00 |
| Federal Express/Airborne | | | |
| Deliverables | $11.00 /package | 21 shipments | $231.00 |
| | $20.00 /package | 6 shipments | $120.00 |
| | $30.00 /package | 6 shipments | $180.00 |
| Sample Shipment | $40.00 /cooler/canister | 4 shipments | $160.00 |
| Equipment Shipment | $50.00 /shipment | 8 shipments | $400.00 |
| Phone/Fax | $5.25 /call | 120 calls | $630.00 |
| Level D protection | $12.00 /man-day | 18 man-days | $216.00 |
| Lodging/Meals per diem | $165.00 /day | 19 days | $3,135.00 |
| Mileage to Site | $0.315 /mile | 4900 miles | $1,543.50 |
| Photographs | $20.00 /roll | 22 rolls | $440.00 |
| Survey Stakes | $0.65 /each | 60 stakes | $39.00 |
| Survey Paint | $5.00 /can | 6 cans | $30.00 |
| Duct Tape/Shipping Tape | $2.00 /roll | 1 roll | $2.00 |
| Utility Knives | $2.00 /each | 3 knives | $6.00 |
| Polyethylene hose - 1" Diameter | $20.00 /roll | 3 rolls | $60.00 |
| Disposable Bailers | $18.00 /each | 29 bailers | $522.00 |
| Miscellaneous Supplies | N/A | N/A | $1,000.00 |
| **Total Direct Non-Salary Costs** | | | **$9,033.70** |

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Schedule 2.11(d)

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| Item | Purchase Price x 85% | Capital Recovery and Usage Rate ($/Unit of Time) | Maximum Days for Usage Rate | Estimated Usage (Unit of Time) | Estimated Usage Cost (Col.3 x Col.4) | Non-Billable Amount |
|---|---|---|---|---|---|---|
| Photoionizer - OVM | $3,800 | $23 /day | 165 days | 150 days | $3,450.00 | |
| Water level meter | $250 | $2 /day | 125 days | 4 days | $8.00 | |
| Generator - 5000 w | $1,450 | $32 /day | 45 days | 4 days | $128.00 | |
| Submersible 2" | $375 | $3 /day | 125 days | 12 days | $36.00 | |
| Turb/pH/Temp./Conduct/DO meter | $3,800 | $23 /day | 107 days | 10 days | $230.00 | |
| | | | | Total: | $3,852.00 | $0.00 |

[1]Usage Rate = Capital Recovery Rate + O&M Rate

[2]The maximum usage rate for an item of equipment reverts to the O&M rate when the total recovery reimbursement rate exceeds 85% of the purchase price.

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Schedule 2.11(e)
Cost Plus-Fixed-Fee Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE |
|---|---|---|
| **YEC, Inc.** | **Field Support** | **$27,490.41** |

**A. Direct Salary Costs**

| Professional Responsibility Level | Labor Classification | Year | Average Reimbursement Rate ($/hr) | Year | Maximum Reimbursement Rate ($/hr) | Estimated Number of Hours | Total Estimated Direct Salary Cost |
|---|---|---|---|---|---|---|---|
| Principle | VIII | 1999 | $47.69 | 1999 | $51.51 | 10 | $476.90 |
| Senior Geologist/ Scientist/Engineer/ Licensed Surveyor | V & VI | 1999 | $31.53 | 1999 | $34.68 | 0 | $0.00 |
| Staff Geologist/ Scientist/Engineer | IV | 1999 | $27.40 | 1999 | $30.14 | 0 | $0.00 |
| Staff Geologist/ Scientist/Engineer/ CAD Operator | III | 1999 | $23.78 | 1999 | $26.40 | 335 | $7,966.30 |
| Senior Technician/ Staff Engineer/ Scientist/Geologist/ Senior Draftsperson | II | 1999 | $17.60 | 1999 | $19.71 | 0 | $0.00 |
| Technician/ Draftsperson | I | 1999 | $15.94 | 1999 | $17.85 | 0 | $0.00 |
| **Total Direct Salary Costs:** | | | | | | **345** | **$8,443.20** |

Notes:

1) The 1999 rates will be held firm until 10/31/99.

2) Reimbursement will be limited to the lesser of either individuals actual hourly rate or the maximum rate for each labor category.

3) Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed.

4) Only those labor classifications indicated with an asterisk will be entitled to overtime.

5) Reimbursement for technical time of principals, owners and officers will be limited to the maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the Federal GS-18 rate, whichever is lower.

Notes (continued):

6) The maximum rates in each labor category can be modified only by mutual agreement and approved by both the Department and the Comptroller.

7) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of Schedule of Prevailing Wage Rates set by the New York State Department of Labor.

8) This Footnote applies to Schedules for years 4 through 7 only. If the U.S. cost-of-living index increases at a rate greater than 6% compounded annually, the maximum salary rates will be subject to renegotiation for future years of the contract. There shall be no retroactive adjustments of payment as a result of renegotiated salary schedules.

**B. Indirect Costs**

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 117% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is: **$9,878.54**

**C. Maximum Reimbursement Rates for Direct Non-Salary Costs:**

| Item | Maximum Reimbursement Rate | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **1. Travel** | | | |
| Lodging/Meals (per diem rate) | $165.00 /day | 30 | $4,950.00 |
| Mileage | $0.315 /mile | 1560 | $491.40 |
| Tolls | $12.00 /day | 12 | $144.00 |
| **2. Expenses** | | | |
| Level D Protection | $11.00 /manday | 70 | $770.00 |
| Photocopies | $0.05 /copy | 100 | $5.00 |
| Postage | $25.00 lump sum | 1 | $25.00 |
| Telephone | $35.00 lump sum | 1 | $35.00 |
| **Total Direct Non-Salary Costs** | | | **$6,420.40** |

**D. Fixed Fee** **$2,748.26**

The fixed fee profit factor is
15% of Total direct and Indirect Salary Costs.

See Schedule 2.10(h) for claiming the fixed fee.

Schedule 2.11(f)1
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **$H_2M$ Labs** | **Sample Analysis** | **$12,308.00** | **$615.40** |

| Item | Max. Reimbursement Rate (Specify Unit) | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **Task 1** | | | |
| **1. Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $110.00 /each | 30 | $3,300.00 |
| 1b TCL Volatiles + 10(95-1)-water | $100.00 /each | 0 | $0.00 |
| Petroleum Hydrocarbons | $35.00 /each | 1 | $35.00 |
| **2. Groundwater Sampling Round** | | | |
| 2a TCL Volatiles + 10(95-1)-water | $100.00 /each | 38 | $3,800.00 |
| 2b TAL Metals | $85.00 /each | 2 | $170.00 |
| 2c Alkalinity | $10.00 /each | 2 | $20.00 |
| 2d TDS | $10.00 /each | 2 | $20.00 |
| 2e TSS | $10.00 /each | 2 | $20.00 |
| 2f Chloride | $10.00 /each | 2 | $20.00 |
| **Task 5** | | | |
| **1. Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $110.00 /each | 20 | $2,200.00 |
| 1a TCL Volatiles + 10(95-1)-soil (48-hr tur | $165.00 /each | 9 | $1,485.00 |
| 1b TCL Volatiles + 10(95-1)-water | $100.00 /each | 0 | $0.00 |
| TCLP Total Analysis | $678.00 /each | 1 | $678.00 |
| **2. Groundwater Sampling Round** | | | |
| 2a TCL Volatiles + 10(95-1)-water | $100.00 /each | 1 | $100.00 |
| 2b TAL Metals | $85.00 /each | 4 | $340.00 |
| 2c Alkalinity | $10.00 /each | 3 | $30.00 |
| 2d TDS | $10.00 /each | 3 | $30.00 |
| 2e TSS | $10.00 /each | 3 | $30.00 |
| 2f Chloride | $10.00 /each | 3 | $30.00 |
| | Subtotal - Subcontract Price | | $12,308.00 |
| | Subcontract Management Fee* | | $615.40 |
| | **TOTAL** | | **$12,923.40** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.
** Surcharge for 2-week turnaround is 150 percent per sample

Schedule 2.11(f)2
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **Chem World** | **DUSR Preparation ("Data Validation")** | **$1,612.80** | **$0.00** |

| Item | Max. Reimbursement Rate (Specify Unit) | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **1. Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $14.40 /each | 30 | $432.00 |
| 1b TCL Volatiles + 10(95-1)-water | $14.40 /each | 28 | $403.20 |
| **2. Groundwater Sampling Round** | | | |
| 2a TCL Volatiles + 10(95-1)-water | $14.40 /each | 18 | $259.20 |
| **3. Phase II Geoprobe Investigation** | | | |
| 1a TCL Volatiles + 10(95-1)-soil | $14.40 /each | 36 | $518.40 |
| | | Subtotal - Subcontract Price | $1,612.80 |
| | | Subcontract Management Fee* | $0.00 |
| | | **TOTAL** | **$1,612.80** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.

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Schedule 2.11(f)3
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **Marsden** | **Photocopying and Blueprints** | **$3,020.50** | **$0.00** |

| Item | Approximate Quantity | Unit Price | Total Estimated Cost |
|---|---|---|---|
| **A. General Photocopying** | | | |
| 1. 81/2" x 11" xerox | 30,000 sheets | $0.07 /sheet | $2,100.00 |
| 2. 11" x 17" | 100 sheets | $0.10 /sheet | $10.00 |
| **B. Binding** | | | |
| 1. GBC | 24 bindings | $2.00 /binding | $48.00 |
| 2. Screw and Post | 165 bindings | $1.00 /binding | $165.00 |
| 3. Strip Stapling (24" x 30" Blue Print Sets) | 165 bindings | $0.30 /binding | $49.50 |
| **C. Blue Prints** | | | |
| 1. 24" x 36" | 1,320 prints (6 $ft^2$ each) | $0.07 /$ft^2$ | $554.40 |
| 2. 24" x 36" xerox bond | 24 prints (6 $ft^2$ each) | $0.25 /$ft^2$ | $36.00 |
| 3. 24" x 36" xerox vellum | 24 prints (6 $ft^2$ each) | $0.40 /$ft^2$ | $57.60 |
| | | Subtotal - Subcontract Price | $3,020.50 |
| | | Subcontract Management Fee* | $0.00 |
| | | **TOTAL** | **$3,020.50** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.

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Schedule 2.11(f)4
Unit Price Subcontracts
Work Assignment Number D002925-28
Active Industrial Uniform Remedial Design Investigation

| 1. NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|---|---|---|---|
| **Zebra Environmental Corp.** | **Geoprobe Installation and Sampling** | **$10,731.00** | **$536.55** |

| Item | Max. Reimbursement Rate (Specify Unit) | Estimated Number of Units | Total Estimated Cost |
|---|---|---|---|
| **Task 1** | | | |
| **1. General Charges** | | | |
| 1a Mobilization/Demobilization | $1,500.00 lump sum | 1 | $1,500.00 |
| 1b Decontamination | $25.00 /hour | 5 | $125.00 |
| 1c Standby Time | $50.00 /hour | 0 | $0.00 |
| **2. Geoprobe Installation** | | | |
| 2a Boring Installation | $2.00 /foot | 489 | $978.00 |
| 2b Boring Abandonment | $1.00 /foot | 100 | $100.00 |
| **3. Sampling** | | | |
| 3a Soil Samples | $36.00 /each | 67 | $2,412.00 |
| 3b Groundwater Samples | $36.00 /each | 22 | $792.00 |
| **4. Concrete Core Drill** | | | |
| 4a Concrete Core Drill | $185.00 /day | 0 | $0.00 |
| **Task 1 Subtotal** | | | **$5,907.00** |
| **Task 5** | | | |
| **1. General Charges** | | | |
| 1a Mobilization/Demobilization | $1,500.00 lump sum | 1 | $1,500.00 |
| 1b Decontamination | $25.00 /hour | 4 | $100.00 |
| **2. Geoprobe Installation** | | | |
| 2a Boring Installation | $2.00 /foot | 446 | $892.00 |
| 2b Boring Abandonment | $1.00 /foot | 100 | $100.00 |
| **3. Sampling** | | | |
| 3a Soil Samples | $36.00 /each | 47 | $1,692.00 |
| 3b Groundwater Samples | $36.00 /each | 15 | $540.00 |
| **Task 5 Subtotal** | | | **$4,824.00** |
| | | Subtotal - Subcontract Price | $10,731.00 |
| | | Subcontract Management Fee* | $536.55 |
| | | **TOTAL** | **$11,267.55** |

* A subcontract management fee of 5% has been included for subcontracts over $10,000 for WA.

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