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**BB&S TREATED LUMBER CORPORATION SUPERFUND SITE  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)  
WORK PLAN AMENDMENT**

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**Prepared For:**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL  
CONSERVATION, DIVISION OF HAZARDOUS WASTE  
REMEDICATION**

**WORK ASSIGNMENT #D002852-15.2**

**SEPTEMBER 1997  
REVISED NOVEMBER 1997**

**MALCOLM PIRNIE, INC.**

**P. O. Box 1938  
Buffalo, New York 14219**

**BB&S TREATED LUMBER CORPORATION SUPERFUND SITE  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)  
PROJECT SCOPING PLAN**

**TABLE OF CONTENTS**

|         |   | Page |
|---------|---|------|
| 1.0     | INTRODUCTION .....                                      | 1    |
| 1.1     | PROJECT DESCRIPTION .....                               | 1    |
| 1.2     | SCOPE OF WORK .....                                     | 2    |
| 2.0     | PROJECT SCOPE .....                                     | 3    |
| 2.1     | SUBTASK 1 - WORK PLAN AMENDMENT DEVELOPMENT .....       | 3    |
| 2.2     | SUBTASK 2 - SUPPLEMENTAL REMEDIAL INVESTIGATION .....   | 3    |
| 2.2.1   | Field Activities .....                                  | 3    |
| 2.2.1.1 | Soil Investigation .....                                | 3    |
| 2.2.1.2 | Groundwater Investigation .....                         | 5    |
| 2.3     | SUBTASK 3 - REVISED REMEDIAL INVESTIGATION REPORT ..... | 6    |
| 3.0     | PROJECT SCHEDULE .....                                  | 7    |
| 4.0     | PROJECT COSTS .....                                     | 8    |

**LIST OF TABLES**

| Table<br>No. | Description                  | Follows<br>Page |
|--------------|------------------------------|-----------------|
| 2-1          | Analytical Program .....     | 3               |
| 3-1          | Revised RI/FS Schedule ..... | 7               |

**LIST OF FIGURES**

| Figure<br>No. | Description                          | Follows<br>Page |
|---------------|--------------------------------------|-----------------|
| 1-1           | Site Location Map .....              | 1               |
| 2-1           | Preliminary Sampling Locations ..... | 4               |
| 2-2           | Monitoring Well Construction .....   | 7               |

**LIST OF APPENDICES**

| <b>Appendix<br/>No.</b> | <b>Description</b>   |
|-------------------------|----------------------|
| A                       | Schedule 2.11 Backup |

## 1.0 INTRODUCTION

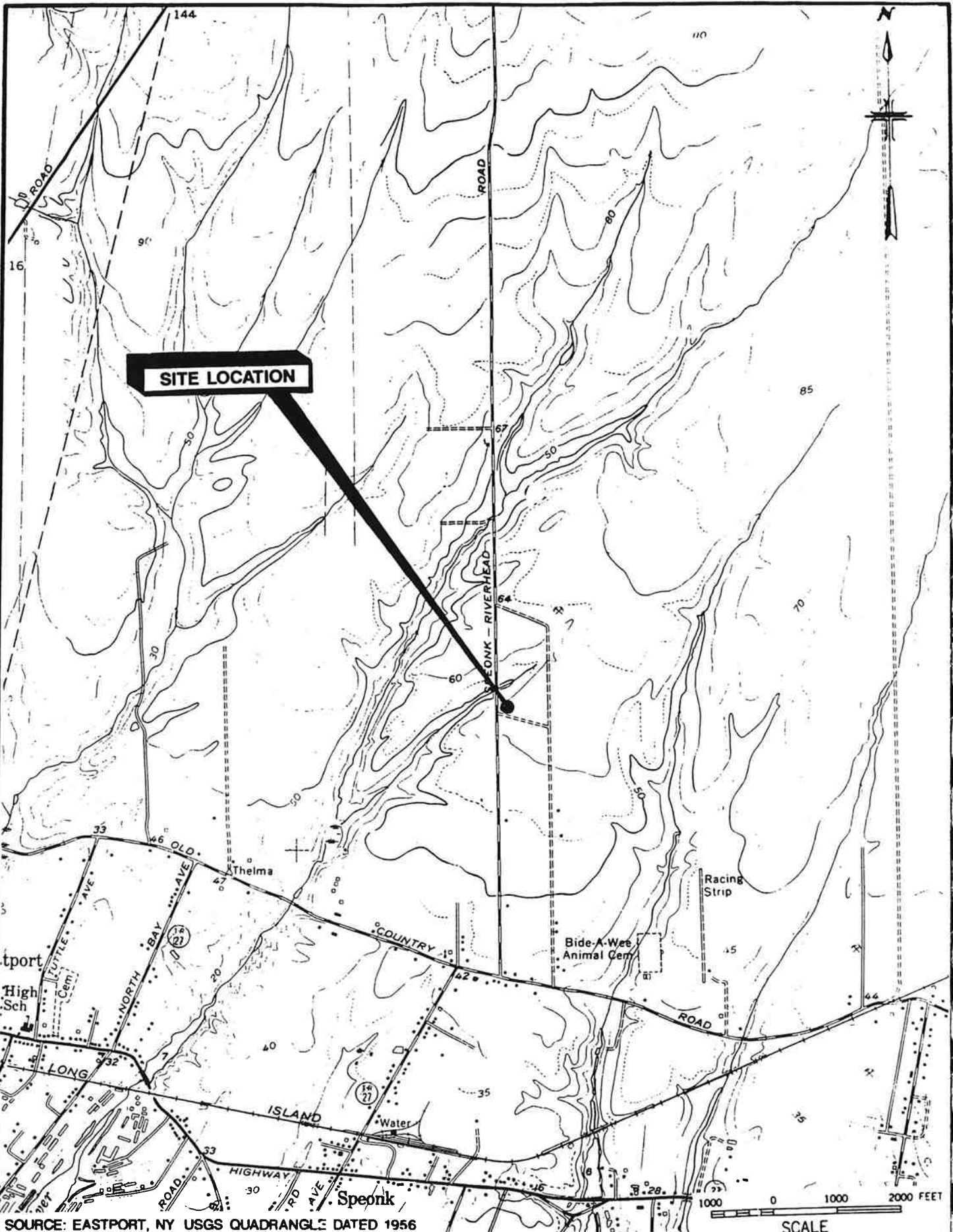
### 1.1 PROJECT DESCRIPTION

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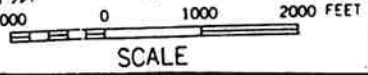
The New York State Department of Environmental Conservation (NYSDEC), Division of Hazardous Waste Remediation, requested Malcolm Pirnie, Inc. (Work Assignment #D002852-15) conduct a Remedial Investigation/Feasibility Study (RI/FS) at the BB&S Treated Lumber Corporation (1-52-123), Speonk-Riverhead Road, Town of Speonk, Long Island, New York (Figure 1-1). The BB&S Treated Lumber Corporation (Site) is an active wholesale lumber sales and distribution facility that has been in operation for more than 12 years. In addition to lumber sales, the facility formerly treated lumber on-site. The treatment procedure used chromate copper arsenate (CCA) as the preservative. Discharges of CCA to the ground have contaminated the in-site soil and groundwater in excess of applicable NYSDEC standards for arsenic, chromium, and copper.

Based upon the data collected during the Remedial Investigation, several conclusions were presented in the Draft November 1996 Remedial Investigation Report. Two of the conclusions were specifically relevant to the development of this Project Scoping Plan:

1. Arsenic, chromium, and copper were detected at concentrations exceeding appropriate NYSDEC standards in the surface soil samples collected near a catch basin located in front of the Site and near the catch basin outfall located west of Speonk-Riverhead Road. Results indicated that the transport of CCA compounds into the catch basin and ultimately across the street to the neighboring property has occurred. Subsequent off-site surface soil sample results indicated the arsenic, chromium, and copper contamination has migrated more than 100 feet west of the catch basin outfall.
2. The existing Reverse Osmosis (RO) groundwater treatment system was never fully effective in removing contaminants from the groundwater before reinjection of the effluent through the on-site infiltration gallery.



SOURCE: EASTPORT, NY USGS QUADRANGLE DATED 1956



**MALCOLM  
PIRNIE**

**BB & S TREATED LUMBER  
SPEONK, NEW YORK  
SITE LOCATION MAP**

**MALCOLM PIRNIE, INC.**  
**0266-323-100**  
**FIGURE 1-1**

148884

This Work Plan Amendment is prepared to outline the additional investigative work necessary to address these RI conclusions. This plan is organized as follows: Section 1.0 Introduction; Section 2.0 describes the amendment scope and the major tasks and subtasks that will be completed; Section 3.0 presents the revised Project Schedule; and Section 4.0 presents the Project Cost estimate.

## **1.2 SCOPE OF WORK**

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The proposed scope of work described in this Work Plan Amendment will be completed as Task 6 and will include the subtasks necessary to establish the following:

- The nature and extent of off-site surface soil contamination in the ditches along Speonk-Riverhead Road.
- The nature and extent of off-site surface soil contamination west of Speonk-Riverhead Road.
- The nature and extent of potential off-site groundwater contamination west of Speonk-Riverhead Road.
- The shallow on-site groundwater quality in the vicinity of the infiltration gallery.

A preliminary description of the major subtasks to be implemented as part of this Work Plan Amendment are presented in the following Sections.

## **2.0 PROJECT SCOPE**

### **2.1 SUBTASK 1 - WORK PLAN AMENDMENT DEVELOPMENT**

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This Work Plan Amendment has been developed in response to the August 11, 1997 letter from the NYSDEC requiring additional field activities at the BB&S Treated Lumber Site. The work described in this Work Plan Amendment was completed in compliance with the February 1996 Work Plan, Field Activities Plan, Site Specific Health and Safety Plan, and Quality Assurance Project Plan. As such, this report is considered an amendment to the February 1996 Work Plan. General information, such as the number and locations of samples and the parameters to be analyzed is provided in this amendment. However, specific information such as sample procedures, handling, and preservation, decontamination procedures, and laboratory analytical methods are described in the February 1996 Work Plan and referenced in this document.

### **2.2 SUBTASK 2 - SUPPLEMENTAL REMEDIAL INVESTIGATION**

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#### **2.2.1 Field Activities**

A soil and groundwater investigation was proposed to be conducted as part of the Field Activities. Since previous investigatory work demonstrated that the off-site soil contamination is present primarily in the surficial (i.e., 0 to 3 inches) soils, the soil investigation consisted of the collection and laboratory analyses of surface soil samples. The groundwater investigation will consist of the collection and laboratory analyses of groundwater samples from newly drilled boreholes (Hydropunch). A summary of the analytical program is presented in Table 2-1. Each investigation is described in detail below and preliminary sampling locations are shown in Figure 2-1 (see cover back).

##### **2.2.1.1 Soil Investigation**

The soil investigation at the site focused on off-site surface soil sample collection and analyses from two general locations: in the ditches along Speonk-Riverhead Road and the

**TABLE 2-1**

**REMEDIAL INVESTIGATION WORK PLAN  
BB&S TREATED LUMBER SITE**

***ANALYTICAL PROGRAM***

| <b>Field Event</b>    | <b>Matrix</b> | <b>Arsenic<br/>Method<br/>206.2</b> | <b>Copper<br/>Method<br/>220.2</b> | <b>Chromium<br/>Method<br/>218.2</b> | <b>Hexavalent<br/>Chromium<br/>218.4</b> | <b>Lead<br/>Method<br/>339.2</b> | <b>Zinc<br/>Method<br/>289.2</b> | <b>MS/MSD</b> | <b>Blind<br/>Duplicates</b> |
|-----------------------|---------------|-------------------------------------|------------------------------------|--------------------------------------|--|----------------------------------|----------------------------------|---------------|-----------------------------|
| Surface Soil Sampling | Soil          | 19                                  | 19                                 | 19                                   | 0  | 19                               | 19                               | 1             | 1                           |
| Hydropunch Sampling   | Water         | 15                                  | 15                                 | 15                                   | 15                                       | 15                               | 15                               | 1             | 1                           |



parcel(s) west of Speonk-Riverhead Road. Malcolm Pirnie completed the field work portion of the scope in October and early November 1997. Soil and groundwater samples collected for this investigation were analyzed for the site-specific contaminants of concern. Based on the results of the RI, a site-specific list of contaminants (viz. arsenic, chromium, copper, lead and zinc) has been developed for the site. The proposed scope of work for each sampling area is described below:

- **Speonk-Riverhead Road**

Thirteen surface soil samples were collected along Speonk-Riverhead Road from alternating locations on both sides of the street (Figure 2-1). Based on the grade of the street (gentle slope to the south) samples were collected in the vicinity of the drip pad and catch basin and progress every 60 feet on alternating sides of the street to the southern boundary of the Site. Additionally, two samples were collected from an area north of the Site to be used as background samples. The surface soil samples were collected 0 to 3 inches below the ground surface. Vegetative cover or other debris was cleared from the sample location before sample collection. The surface soil samples were collected using dedicated, decontaminated stainless steel trowels. Each of the surface soil samples was submitted to Mitkem Corporation of Warwick, Rhode Island. Initially, the two samples collected from the area north of the site and the first four samples (viz. 2 from each side of Speonk-Riverhead Road) were analyzed. Based on the results (viz. concentrations above the appropriate NYSDEC standards for arsenic, chromium, copper or lead), the NYSDEC authorized the analyses of the next two samples. Based on these results, further analyses was deemed unnecessary.

- **Parcel(s) West of Speonk-Riverhead Road**

A grid consisting of 30 surface sample locations was constructed around previous sample locations where arsenic, chromium, and copper concentrations exceeded applicable NYSDEC standards (Figure 2-1). The sample locations were spaced on 100-foot centers. The first row in the grid consisted of six surface soil sample locations; the second row consisted of ten locations; and the third row consisted of fourteen locations. The 30 soil

samples were submitted to Mitkem for arsenic, total chromium, copper, and lead analyses. Initially, only the first row of samples was analyzed. Based on the results (viz. concentrations below appropriate NYSDEC standards for arsenic, chromium, copper, or lead), the NYSDEC did not authorize the analyses of the remaining rows of samples. The surface soil samples were collected 0 to 3 inches below the ground surface. Vegetative cover or other debris was cleared from the sample location before sample collection. The surface soil samples were collected using dedicated, decontaminated stainless steel trowels.

During the soil investigation, one blind duplicate soil sample, one matrix spike sample, and one matrix spike duplicate sample were collected. Malcolm Pirnie completed the soil investigation in October 1997. The costs provided in Section 3 represent actual costs for completion of this work,

#### **2.2.1.2 Groundwater Investigation**

The groundwater investigation focused on the chemical quality analyses of the shallow groundwater in the upper glacial aquifer on the site. Initially, the groundwater investigation was to consist of Hydropunch sample collection and, if necessary, monitoring well installation and groundwater sample collection. Malcolm Pirnie completed the Hydropunch sampling in November 1997. Based on the sampling results, installation of monitoring wells was deemed unnecessary. The field methodologies followed are described below.

- **HydroPunch Sampling**

The horizontal and vertical extent of metals contamination in groundwater was evaluated by advancing HydroPunch probes in 5 deep boreholes (Figure 2-1). Four boreholes were located on the parcel(s) across Speonk-Riverhead Road. One borehole was located hydraulically downgradient from the on-site former groundwater collection and treatment system infiltration gallery.

A borehole was drilled to the depth of the water table at each location. Based upon field measurements made during the Remedial Investigation, the water table is estimated to be approximately 40 feet below ground surface. Nominal 4-inch inside diameter hollow

**TABLE 3-1  
REMEDIAL INVESTIGATION WORK PLAN AMENDMENT  
BB&S TREATED LUMBER SITE**

*REVISED RI/FS SCHEDULE*

| <b>Activity</b>  | <b>Work Plan Scheduled Completion Date</b> | <b>Revised Schedule Completion Date</b> | <b>Actual Completion Date</b> | <b>Comments</b>  |
|--|--|---|-------------------------------|--|
| <b>Task 2: Remedial Investigation</b>  |  |   |                               |  |
| Well Rehabilitation/ Development   | Feb. 26, 1996                              |   | April 8, 1996                 | Access to the site has been denied until the beginning of April.     |
| Well Sampling  | March 11, 1996                             |   | April 29, 1996                | Recovery wells sampled May 9   |
| Soil Sampling  | April 1, 1996                              | (June 3, 1996)                          | June 10, 1996                 | The start of fieldwork was delayed due to problems with site access. |
| Hydropunch Sampling  | April 8, 1996                              | (June 10, 1996)                         | June 17, 1996                 |  |
| Fish and Wildlife Impact Analysis  | June 17, 1996                              |   | June 10, 1996                 |  |
| ** Completion of Fieldwork (includes the pump test)                            | April 19, 1996                             | (July 12, 1996)                         | July 19, 1996                 |  |
| Receive Data from first field visit  | May 17, 1996<br>(Aug. 12, 1996)            |   | July 2-30, 1996               |  |
| Commence Engineering Evaluation and develop possible IRM                       | May 31, 1996                               | (June 30, 1996)                         | June 15, 1996                 |  |
| Second Round Groundwater Sampling  | Aug. 5, 1996                               |   | Aug. 8, 1996                  |  |
| Receive second round of data from Validator                                    | June 17, 1996                              | (Sept. 5, 1996)                         | Oct. 3, 1996                  |  |
| **Submit Preliminary Data analysis including data validation/ usability Report | July 1, 1996                               | (Sept. 19, 1996)                        | Oct. 17, 1996                 | Submitted two weeks after receipt of all validated data              |
| Submit Draft Scope of Phase II RI (if needed)                                  | July 19, 1996                              | (Sept. 30, 1996)                        | Oct. 17, 1996                 |  |
| Complete Human Health Risk Assessment  | Aug. 16, 1996                              | (Oct. 10, 1996)                         | Oct. 20, 1996                 |  |

**TABLE 3-1  
REMEDIAL INVESTIGATION WORK PLAN AMENDMENT  
BB&S TREATED LUMBER SITE**

*REVISED RI/FS SCHEDULE*

| <b>Activity</b>   | <b>Work Plan Scheduled Completion Date</b> | <b>Revised Schedule Completion Date</b> | <b>Actual Completion Date</b>   | <b>Comments</b>                                  |
|---|--|---|---------------------------------|--|
| * Submit Draft RI/FS Report with Draft Engineering Evaluation and IRM Recommendations | Sept. 25, 1996                             | (Oct. 31, 1996)                         | Nov. 8, 1996                    | This report includes the engineering evaluation. |
| * Public Information Meeting - RI Results   | Sept. 2, 1996                              | (Nov. 14, 1996)                         | Dec. 12, 1996                   |  |
| Receive NYSDEC Comments   | Oct. 25, 1996                              | (Nov. 29, 1996)                         | Nov. 19, 1996 and Nov. 26, 1996 |  |
| <b>Task 4: Phase II Remedial Investigation</b>  |  |   |                                 |  |
| Phase II RI Fieldwork   | Feb. 10, 1997                              |   | Feb. 10, 1997                   |  |
| Receive Data Validation Report  | March 24, 1997                             |   | April 17, 1997                  |  |
| Additional Soil Sampling  | June 12, 1997                              |   | June 26, 1997                   | Difficulty in obtaining site access              |
| <b>Task 6: Supplemental Investigation</b>   |  |   |                                 |  |
| Submit Draft Scoping Plan   |  | Aug. 29, 1997                           | Aug. 29, 1997                   |  |
| Receive NYSDEC Comments   |  | Sept. 18, 1997                          | Sept. 10, 1997                  |  |
| Submit Final Scoping Plan   |  | Sept. 22, 1997                          | Sept. 22, 1997                  |  |
| Approval of Scoping Plan  |  | Sept. 26, 1997                          |                                 |  |
| Property Ownership Assessment   |  | Sept. 29, 1997                          |                                 |  |
| Surface Soil Sampling   |  | Oct. 23, 1997                           | Oct. 23, 1997                   |  |
| Hydropunch Sampling   |  | Nov. 7, 1997                            | Nov. 7, 1997                    |  |
| Receive Last of Validated Data  |  | Dec. 17, 1997                           |                                 |  |
| Submit Updated RI Report  | May 5, 1997                                | Jan. 30, 1998                           |                                 |  |

| <b>TABLE 3-1</b><br><b>REMEDIAL INVESTIGATION WORK PLAN AMENDMENT</b><br><b>BB&amp;S TREATED LUMBER SITE</b><br><b>REVISED RI/FS SCHEDULE</b> |                                     |                                  |                        |          |
|---|-------------------------------------|----------------------------------|------------------------|----------|
| Activity  | Work Plan Scheduled Completion Date | Revised Schedule Completion Date | Actual Completion Date | Comments |
| Approval of Remedial Investigation Report   | Nov. 20, 1996                       | Feb. 13, 1998                    |                        |          |
| <b>Task 5: Feasibility Study</b>  |                                     |                                  |                        |          |
| Initiate FS Report  | Oct. 25, 1996                       | Jan. 20, 1997                    | Jan. 20, 1997          |          |
| ** Submit Draft FS Report   | Feb. 20, 1997                       | June 16, 1997<br>(Feb. 20, 1998) |                        |          |
| Approval of FS Report   | March 27, 1997                      | July 14, 1997<br>(Mar. 6, 1998)  |                        |          |
| ** Submit Final FS Report   | April 24, 1997                      | Aug. 11, 1997<br>(Mar. 27, 1998) |                        |          |
| <b>Notes:</b><br>* Project Milestone<br>** Project Milestone requiring Performance Evaluation   |                                     |                                  |                        |          |

## **4.0 PROJECT COST**

The amended Schedule 2.11 forms for completion of Tasks 1 through 6 are attached.  
Backup for these forms is provided in Appendix A.

Schedule 2.11 (a)

**SUMMARY OF WORK ASSIGNMENT PRICE**

D - 002852 - 15.2

BB&S RI/FS

|  |              |
|--|--------------|
| 1. Direct Salary Costs [Schedule 2.11(b)]        | \$81,630.49  |
| 2. Indirect Costs (1.538)                        | \$125,547.69 |
| 3. Direct Non-Salary Costs [Schedule 2.11(c)(d)] | \$33,245.50  |

**Subcontract Costs:**

| Cost - Plus - Fixed - Fee Subcontracts [Schedule 2.11 (e)] |                          |                     |
|--|--------------------------|---------------------|
| Name of Subcontractor                                      | Services To Be Performed | Subcontractor Price |
| A. Edward O. Watts, P.E., P.C.                             | Professional Services    | \$40,631.19         |
| <b>4. Subtotal Cost-Plus-Fixed-Fee Subcontracts</b>        |                          | <b>\$40,631.19</b>  |

| Unit Price Subcontracts [Schedule 2.11(f)] |                          |                     |
|--|--------------------------|---------------------|
| Name of Subcontractor                      | Services To Be Performed | Subcontractor Price |
| A. Engineering & Environment               | Analytical Services      | \$44,350.00         |
| B. A/E Blueprinting Inc.                   | Repro. Services          | \$1,123.20          |
| C. SJB Services, Inc.                      | Drilling Services        | \$30,617.50         |
| D. Nancy Potak                             | Data Validation          | \$8,577.50          |
| E. Nytest Analytical                       | Analytical               | \$7,522.00          |
| F. Wendel Engineers                        | Survey                   | \$4,000.00          |
| G. Mitkem Corp.                            | Analytical               | \$5,655.00          |
| <b>5. Total Unit Price Subcontracts</b>    |                          | <b>\$101,845.20</b> |

|   |                     |
|---|---------------------|
| 6. Subcontract Management Fee                           | \$3,748.38          |
| 7. Total Subcontract Costs (lines 4+5+6)                | \$146,224.77        |
| 8. Fixed Fee  | \$21,792.84         |
| <b>9. Total Work Assignment Price (lines 1+2+3+7+8)</b> | <b>\$408,441.29</b> |

**SCHEDULE 2.11 (b) - Tasks 1 through 6**

**SUMMARY TOTAL OF DIRECT LABOR HOURS**

| NSPE Labor Classification      |                            | 9              | 8           | 7            | 6               | 5           | 4            | 3               | 2               | 1               | Tech         | Total No. Direct Labor Hours Budgeted |
|--------------------------------|----------------------------|----------------|-------------|--------------|-----------------|-------------|--------------|-----------------|-----------------|-----------------|--------------|---------------------------------------|
| Task #                         | Task Name                  |                |             |              |                 |             |              |                 |                 |                 |              |                                       |
| Task 1A                        | Project Management Plan    | 1              | 0           | 0            | 13              | 0           | 0            | 42              | 36              | 11              | 8            | 111                                   |
| Task 1B                        | Workplan                   | 1              | 1           | 2            | 40              | 1           | 0            | 80              | 64              | 35              | 8            | 232                                   |
| Task 1C                        | Public Participation Plan  | 0              | 0           | 0            | 16              | 0           | 0            | 16              | 16              | 10              | 4            | 62                                    |
| Task 2                         | Remedial Investigation     | 5              | 0           | 4            | 65              | 0           | 10           | 462             | 659             | 323             | 66           | 1,593                                 |
| Task 3                         | Engineering Evaluation     | 0              | 0           | 0            | 85              | 0           | 0            | 80              | 30              | 19              | 6            | 220                                   |
| Task 4                         | Phase II RI                | 0              | 0           | 0            | 0               | 0           | 0            | 12              | 153             | 86              | 2            | 253                                   |
| Task 5                         | Focused FS                 | 14             | 0           | 0            | 92              | 0           | 0            | 152             | 190             | 58              | 0            | 506                                   |
| Task 6                         | Supplemental Investigation | 5              | 0           | 0            | 44              | 0           | 0            | 196             | 282             | 172             | 0            | 699                                   |
|                                | Subtotal 1995 hours        | 2              | 1           | 2            | 69              | 1           | 0            | 138             | 116             | 56              | 20           | 405                                   |
|                                | Subtotal 1996 hours        | 4              | 0           | 4            | 147             | 0           | 8            | 528             | 675             | 319             | 70           | 1,755                                 |
|                                | Subtotal 1997 hours        | 20             | 0           | 0            | 139             | 0           | 2            | 374             | 639             | 339             | 3            | 1,516                                 |
| <b>Total hours</b>             |                            | <b>26</b>      | <b>1</b>    | <b>6</b>     | <b>355</b>      | <b>1</b>    | <b>10</b>    | <b>1,040</b>    | <b>1,430</b>    | <b>714</b>      | <b>93</b>    | <b>3,675</b>                          |
|                                | Average 1995 Rates         | \$56.55        | \$45.50     | \$37.25      | \$35.17         | \$27.25     | \$30.05      | \$25.00         | \$18.52         | \$10.81         | \$9.65       | \$9,055                               |
|                                | Average 1996 Rates         | \$60.51        | \$53.37     | \$45.50      | \$35.58         | \$35.28     | \$28.35      | \$25.43         | \$19.07         | \$15.00         | \$9.77       | \$37,644                              |
|                                | Average 1997 Rates         | \$64.74        | \$57.11     | \$49.41      | \$35.58         | \$37.75     | \$29.20      | \$26.50         | \$20.00         | \$17.46         | \$10.19      | \$34,931                              |
| <b>Total Direct Labor Cost</b> |                            | <b>\$1,622</b> | <b>\$46</b> | <b>\$257</b> | <b>\$12,603</b> | <b>\$27</b> | <b>\$285</b> | <b>\$26,788</b> | <b>\$27,801</b> | <b>\$11,301</b> | <b>\$903</b> | <b>\$81,630</b>                       |



**SCHEDULE 2.11 (b) - Tasks 1 through 6**

**SUMMARY TOTAL OF DIRECT LABOR HOURS**

[WORKSHEET - Not to be submitted]

| NSPE                 |        | 9                         | 8 | 7 | 6  | 5 | 4  | 3   | 2   | 1   | Tech | Total No. Direct Labor Hours Budgeted | Direct Labor Cost |
|----------------------|--------|---------------------------|---|---|----|---|----|-----|-----|-----|------|---------------------------------------|-------------------|
| Labor Classification | Task # | Task Name                 |   |   |    |   |    |     |     |     |      |                                       |                   |
| Task 1A              | 1      | Project Management Plan   | 0 | 0 | 13 | 0 | 0  | 42  | 36  | 11  | 8    | 111                                   | \$2,427           |
|                      | 1      | 1995                      |   |   | 13 |   |    | 42  | 36  | 11  | 8    | 111                                   | \$2,427           |
|                      |        | 1996                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
|                      |        | 1997                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
| Task 1B              | 1      | Workplan                  | 1 | 2 | 40 | 1 | 0  | 80  | 64  | 35  | 8    | 232                                   | \$5,223           |
|                      | 1      | 1995                      |   |   | 40 |   |    | 80  | 64  | 35  | 8    | 232                                   | \$5,223           |
|                      |        | 1996                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
|                      |        | 1997                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
| Task 1C              | 0      | Public Participation Plan | 0 | 0 | 16 | 0 | 0  | 16  | 16  | 10  | 4    | 62                                    | \$1,406           |
|                      |        | 1995                      |   |   | 16 |   |    | 16  | 16  | 10  | 4    | 62                                    | \$1,406           |
|                      |        | 1996                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
|                      |        | 1997                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
| Task 2               | 5      | Remedial Investigation    | 0 | 4 | 65 | 0 | 10 | 462 | 659 | 323 | 66   | 1,593                                 | \$32,964          |
|                      |        | 1995                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
|                      | 4      | 1996                      |   | 4 | 62 | 0 | 8  | 448 | 645 | 300 | 64   | 1,535                                 | \$31,675          |
|                      | 1      | 1997                      |   |   | 3  |   | 2  | 14  | 14  | 23  | 2    | 58                                    | \$1,289           |
| Task 3               | 0      | Engineering Evaluation    | 0 | 0 | 85 | 0 | 0  | 80  | 30  | 19  | 6    | 220                                   | \$5,970           |
|                      |        | 1995                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
|                      | 0      | 1996                      |   | 0 | 85 | 0 | 0  | 80  | 30  | 19  | 6    | 220                                   | \$5,970           |
|                      |        | 1997                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
| Task 4               | 0      | Phase II RI               | 0 | 0 | 0  | 0 | 0  | 12  | 153 | 86  | 2    | 253                                   | \$4,895           |
|                      |        | 1995                      |   |   |    |   |    |     |     |     |      | 0                                     | \$0               |
|                      | 0      | 1996                      |   | 0 | 0  | 0 | 0  | 0   | 0   | 0   | 0    | 0                                     | \$0               |
|                      | 0      | 1997                      |   | 0 | 0  | 0 | 0  | 12  | 153 | 86  | 2    | 253                                   | \$4,895           |

**SCHEDULE 2.11 (b) - Tasks 1 through 6**

**SUMMARY TOTAL OF DIRECT LABOR HOURS**

[WORKSHEET - Not to be submitted]

| NSPE                           |                   | 9                          | 8         | 7        | 6        | 5          | 4        | 3            | 2            | 1          | Tech      | Total No. Direct Labor Hours Budgeted | Direct Labor Cost |
|--------------------------------|-------------------|----------------------------|-----------|----------|----------|------------|----------|--------------|--------------|------------|-----------|---------------------------------------|-------------------|
| Labor Classification           | Task #            | Task Name                  |           |          |          |            |          |              |              |            |           |                                       |                   |
|                                | Task 5            | Focused FS                 | 14        | 0        | 0        | 92         | 0        | 152          | 190          | 58         | 0         | 506                                   | \$13,020          |
|                                |                   | 1995                       |           |          |          |            |          |              |              |            |           | 0                                     | \$0               |
|                                |                   | 1996                       |           | 0        | 0        |            | 0        | 0            |              |            |           | 0                                     | \$0               |
|                                |                   | 1997                       | 14        |          |          | 92         |          | 152          | 190          | 58         |           | 506                                   | \$13,020          |
| Task 6                         |                   | Supplemental Investigation | 5         | 0        | 0        | 44         | 0        | 196          | 282          | 172        | 0         | 699                                   | \$15,726          |
|                                |                   | 1995                       |           |          |          |            | 0        |              |              | 0          |           | 0                                     | \$0               |
|                                |                   | 1996                       |           |          |          |            |          |              |              |            |           | 0                                     | \$0               |
|                                |                   | 1997                       | 5         | 0        | 0        | 44         | 0        | 196          | 282          | 172        | 0         | 699                                   | \$15,726          |
|                                |                   | Subtotal 1995 hours        | 2         | 1        | 2        | 69         | 1        | 138          | 116          | 56         | 20        | 405                                   |                   |
|                                |                   | Subtotal 1996 hours        | 4         | 0        | 4        | 147        | 0        | 528          | 675          | 319        | 70        | 1,755                                 |                   |
|                                |                   | Subtotal 1997 hours        | 20        | 0        | 0        | 139        | 0        | 374          | 639          | 339        | 3         | 1,516                                 |                   |
| <b>Total hours</b>             |                   |                            | <b>26</b> | <b>1</b> | <b>6</b> | <b>355</b> | <b>1</b> | <b>1,040</b> | <b>1,430</b> | <b>714</b> | <b>93</b> | <b>3,675</b>                          | <b>\$81,630</b>   |
| 1                              | Average 1995 Rate |                            | \$56.55   | \$45.50  | \$37.25  | \$35.17    | \$27.25  | \$25.00      | \$18.52      | \$10.81    | \$9.65    |                                       | \$9,055           |
| 1                              | Average 1996 Rate |                            | \$60.51   | \$53.37  | \$45.50  | \$35.58    | \$35.28  | \$25.43      | \$19.07      | \$15.00    | \$9.77    |                                       | \$37,644          |
| 2                              | Average 1997 Rate |                            | \$64.74   | \$57.11  | \$49.41  | \$35.58    | \$37.75  | \$26.50      | \$20.00      | \$17.46    | \$10.19   |                                       | \$34,931          |
| <b>Total Direct Labor Cost</b> |                   |                            |           |          |          |            |          |              |              |            |           |                                       | <b>\$81,630</b>   |

1) Reflects average of actual rates of personnel labor rates expended to complete task.

2) With the exception of NSPE 9 (which is maximum 1997 contractually-approved rate), all rates presented are actual average rates of personnel expected to perform the work

hpg

**SCHEDULE 2.11 (b-1) - Tasks 1 through 6**

**SUMMARY TOTAL OF DIRECT ADMINISTRATIVE LABOR HOURS**

[Already Included on Schedule 2.11 (b)]

| NSPE               |                            | 9        | 8        | 7        | 6         | 5        | 4        | 3        | 2         | 1          | Total No. Direct Labor Hours |
|--------------------|----------------------------|----------|----------|----------|-----------|----------|----------|----------|-----------|------------|------------------------------|
| Task #             | Task Name                  |          |          |          |           |          |          |          |           |            |                              |
| Task 1             | Workplan                   | 0        | 0        | 0        | 6         | 0        | 0        | 0        | 8         | 16         | 30                           |
| Task 2             | Remedial Investigation     | 0        | 0        | 0        | 16        | 0        | 0        | 1        | 0         | 37         | 54                           |
| Task 3             | Engineering Evaluation     | 0        | 0        | 0        | 11        | 0        | 0        | 0        | 0         | 8          | 19                           |
| Task 4             | Phase II RI                | 0        | 0        | 0        | 3         | 0        | 0        | 0        | 2         | 24         | 29                           |
| Task 5             | Focused FS                 | 0        | 0        | 0        | 14        | 0        | 0        | 0        | 0         | 32         | 46                           |
| Task 6             | Supplemental Investigation | 0        | 0        | 0        | 14        | 0        | 0        | 1        | 6         | 36         | 57                           |
| <b>Total hours</b> |                            | <b>0</b> | <b>0</b> | <b>0</b> | <b>64</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>16</b> | <b>153</b> | <b>235</b>                   |
| Average 1995       | Rate                       | \$56.55  | \$45.50  | \$37.25  | \$35.17   | \$27.25  | \$30.05  | \$25.00  | \$18.52   | \$10.81    |                              |
| Average 1996       | Rate                       | \$60.51  | \$53.37  | \$45.50  | \$35.58   | \$35.28  | \$28.35  | \$25.43  | \$19.07   | \$15.00    |                              |
| Average 1997       | Rate                       | \$64.74  | \$57.11  | \$49.41  | \$35.58   | \$37.75  | \$29.20  | \$26.50  | \$20.00   | \$17.46    |                              |

**Engineer/Contract Number:** Malcolm Pimie / D-002852  
**Project Name:** BB&S RI/FS  
**Work Assignment Number:** WA # 15.2

**DETAILED BREAKDOWN OF  
 DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED ON SCHEDULE 2-11(b-1)  
 [WORKSHEET - to be sent with Work Plan, but separately]**

| ADMIN.<br>TASKS | Conflict<br>Of Interest<br>Checks |   | Prepare 2.11 Schedules |   |    |   |   |   |    |   | Conduct<br>Progress<br>Reviews |   |   |   | Prepare Monthly<br>Project Report &<br>Schedule Update |   |   |   |   |   | Review Work Assignment (WA) Progress |   |   |   |   |   | Program<br>Management |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
|-----------------|-----------------------------------|---|------------------------|---|----|---|---|---|----|---|--------------------------------|---|---|---|--|---|---|---|---|---|--------------------------------------|---|---|---|---|---|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
|                 | 9                                 | 8 | 7                      | 6 | 5  | 4 | 3 | 2 | 1  | 8 | 7                              | 6 | 5 | 4 | 3  | 2 | 1 | 8 | 7 | 6 | 5                                    | 4 | 3 | 2 | 1 | 9 | 8                     | 7 | 6 | 5 | 4 | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| NSPE<br>Level   |                                   |   |                        |   |    |   |   |   |    |   |                                |   |   |   |  |   |   |   |   |   |                                      |   |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Task 1          |                                   | 1 |                        |   | 2  |   |   | 8 |    |   |                                | 2 |   |   |  |   |   |   |   |   |                                      | 2 |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Task 2          |                                   |   |                        |   |    |   |   |   |    |   |                                | 2 |   |   |  |   |   |   |   |   | 6                                    |   |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Task 3          |                                   |   |                        |   |    |   |   |   |    |   |                                | 1 |   |   |  |   |   |   |   |   | 6                                    |   |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Task 4          |                                   |   |                        |   |    |   |   | 2 |    |   |                                | 1 |   |   |  |   |   |   |   |   | 1                                    |   |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Task 5          |                                   |   |                        |   |    |   |   |   |    |   |                                |   |   |   |  |   |   |   |   |   | 6                                    |   |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Task 6          |                                   | 1 |                        |   |    |   |   |   |    |   |                                | 1 |   |   |  |   |   |   |   |   | 5                                    |   |   |   |   |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |
| Subtotal        | 0                                 | 0 | 2                      | 0 | 0  | 2 | 0 | 0 | 16 | 0 | 0                              | 5 | 0 | 0 | 0  | 0 | 0 | 0 | 0 | 0 | 24                                   | 0 | 0 | 0 | 0 | 0 | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |  |  |  |  |
| <b>TOTAL</b>    |                                   | 2 |                        |   | 18 |   |   |   |    | 5 |                                | 5 |   |   |  |   |   |   |   |   | 24                                   |   |   |   | 2 |   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5 |  |  |  |  |  |

**Engineer/Contract Number:** Malcolm Pirnie / D-002852  
**Project Name:** BB&S RI/FS  
**Work Assignment Number:** WA # 15.2

**DETAILED BREAKDOWN OF  
 DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED ON SCHEDULE 2-11(b-1)  
 [WORKSHEET - to be sent with Work Plan, but separately]**

| ADMIN. TASKS | C.A.P. FORM PREPARATION                             |   |   |   |   |   |                                 |   |   |   |   |   | MISCELLANEOUS     |   |   |   |   |   |                             |   |   |   |   |   | TOTAL ADMIN. Level of Effort (hours) |   |   |   |   |   |   |   |   |    |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
|--------------|---|---|---|---|---|---|---------------------------------|---|---|---|---|---|-------------------|---|---|---|---|---|-----------------------------|---|---|---|---|---|--------------------------------------|---|---|---|---|---|---|---|---|----|---|---|-----|---|---|---|---|---|---|---|--|--|--|--|
|              | Prepare Monthly Cost Control Report and C.A.P. Form |   |   |   |   |   | Oversee C.A.P. Form Preparation |   |   |   |   |   | NSPE List Updates |   |   |   |   |   | Equipment Use and Inventory |   |   |   |   |   | Word Processing and Report Prep.     |   |   |   |   |   |   |   |   |    |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
|              | 8   | 7 | 6 | 5 | 4 | 3 | 2                               | 1 | 9 | 8 | 7 | 6 | 5                 | 4 | 3 | 2 | 1 | 4 | 3                           | 2 | 1 | 4 | 3 | 2 | 1                                    | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1  |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| NSPE Level   |   |   |   |   |   |   |                                 |   |   |   |   |   |                   |   |   |   |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   |    |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Task 1       |   |   |   |   |   |   |                                 |   |   |   |   |   |                   |   |   |   |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   |    |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Task 2       |   |   |   |   |   |   | 20                              |   |   |   |   |   |                   |   |   | 1 |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   | 16 |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Task 3       |   |   |   |   |   |   | 6                               |   |   |   |   |   |                   |   |   | 1 |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   | 2  |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Task 4       |   |   |   |   |   |   | 8                               |   |   |   |   |   |                   |   |   | 1 |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   | 16 |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Task 5       |   |   |   |   |   |   | 20                              |   |   |   |   |   |                   |   |   | 1 |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   | 12 |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Task 6       |   |   |   |   |   |   | 20                              |   |   |   |   |   |                   |   |   | 1 |   |   |                             |   |   |   |   |   |                                      |   |   |   |   |   |   |   |   | 16 |   |   |     |   |   |   |   |   |   |   |  |  |  |  |
| Subtotal     | 0   | 0 | 0 | 0 | 0 | 0 | 74                              | 0 | 0 | 0 | 5 | 0 | 0                 | 0 | 2 | 0 | 0 | 0 | 0                           | 0 | 0 | 0 | 0 | 0 | 0                                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |
| TOTAL        | 93  |   |   |   |   |   |                                 |   |   |   |   |   | 2                 |   |   |   |   |   |                             |   |   |   |   |   | 78                                   |   |   |   |   |   |   |   |   |    |   |   | 235 |   |   |   |   |   |   |   |  |  |  |  |

**Schedule 2.11 (c)**

**DIRECT NON-SALARY COSTS  
WA # 15.2**

| <b>Item</b>          | <b>Maximum<br/>Reimbursement<br/>Rate</b> | <b>Estimated<br/>Number<br/>of Units</b> | <b>Estimated<br/>Cost</b> | <b>Total<br/>Estimated<br/>Cost</b> |
|----------------------|---|--|---------------------------|-------------------------------------|
| <b>In-house</b>      |   |  |                           |                                     |
| Reproduction         | \$0.06 /page                              | 37,683 copies                            | \$2,260.96                |                                     |
| Mail                 | At Cost                                   | At Cost                                  | \$712.54                  |                                     |
| PC                   | \$5.00 /hour                              | 253 hours                                | \$1,265.15                |                                     |
| CADD                 | \$15.00 /hour                             | 82 hours                                 | \$1,235.00                |                                     |
| Communication        | At Cost                                   | At Cost                                  | \$1,497.03                | \$6,970.68                          |
| <b>Miscellaneous</b> |   |  |                           |                                     |
| Per diem             | At Cost                                   | At Cost                                  | \$7,550.00                |                                     |
| Mileage              | \$0.235 /mile                             | 8,663 miles                              | \$2,035.81                |                                     |
| Tolls/fuel           | At Cost                                   | At Cost                                  | \$149.90                  |                                     |
| Airfare*             | At Cost                                   | At Cost                                  | \$3,027.00                | \$12,762.71                         |
| <b>TOTAL</b>         |   |  |                           | <b>\$19,733.39</b>                  |

\* Airfare breakdown on detailed worksheet (2.11[c])

**Table 2.11 (c)**

**DETAILED BREAKDOWN OF DIRECT NON-SALARY COSTS  
WA # 15.2**

**[WORKSHEET - to be submitted with Work Plan, but separately]**

| Item                             | Maximum Reimbursement Rate | Estimated Number of Units | Estimated Cost | Total Estimated Cost |
|----------------------------------|----------------------------|---------------------------|----------------|----------------------|
| <b>Task 1</b>                    |                            |                           |                |                      |
| <i>Travel &amp; Subsistence</i>  |                            |                           |                |                      |
| 1 Mileage                        | \$0.235 /mile              | 575 miles                 | \$135.13       |                      |
| 2 Airfare Buf to Islip           | \$499 /ticket              | 2 tickets                 | \$1,000.00     |                      |
| 3 Airfare Newport News. to Islip | \$564 /ticket              | 1 ticket                  | \$564.00       |                      |
| 4 Car Rental and Tolls           | At Cost                    | At Cost                   | \$92.95        | \$1,792.08           |
| <i>Other Direct Costs</i>        |                            |                           |                |                      |
| 1 Reproduction                   | \$0.06 /page               | 1,608 copies              | \$96.48        |                      |
| 2 Mail                           | At Cost                    | At Cost                   | \$351.80       |                      |
| 3 PC                             | \$5.00 /hour               | 34 hours                  | \$170.00       |                      |
| 4 CADD                           | \$15.00 /hour              | 1 hours                   | \$15.00        |                      |
| 5 Communication                  | At Cost                    | At Cost                   | \$200.13       | \$833.41             |
| TOTAL - Task 1                   |                            |                           |                | \$2,625.49           |

|                                 |               |               |            |            |
|---------------------------------|---------------|---------------|------------|------------|
| <b>Task 2</b>                   |               |               |            |            |
| <i>Travel &amp; Subsistence</i> |               |               |            |            |
| 1 Mileage                       | \$0.235 /mile | 3,736 miles   | \$877.96   |            |
| 2 tolls/parking                 | At Cost       | At Cost       | \$34.38    |            |
| 3 Airfare Buf to Islip          | \$450 /ticket | 1 tickets     | \$450.00   |            |
| 4 Airfare for Public Meeting    | \$513 /ticket | 1 ticket      | \$513.00   |            |
| 5 Per diem                      | \$151 /day    | 27 days       | \$4,077.00 | \$5,952.34 |
| <i>Other Direct Costs</i>       |               |               |            |            |
| 1 Reproduction                  | \$0.06 /page  | 27,952 copies | \$1,677.12 |            |
| 2 Mail                          | At Cost       | At Cost       | \$168.10   |            |
| 3 PC                            | \$5.00 /hour  | 138 hours     | \$690.00   |            |
| 4 CADD                          | \$15.00 /hour | 1 hours       | \$15.00    |            |
| 5 Communication                 | At Cost       | At Cost       | \$867.32   | \$3,417.54 |
| TOTAL - Task 2                  |               |               |            | \$9,369.88 |

**Table 2.11 (c)**

**DETAILED BREAKDOWN OF DIRECT NON-SALARY COSTS  
WA # 15.2**

**[WORKSHEET - to be submitted with Work Plan, but separately]**

| Item                            | Maximum Reimbursement Rate | Estimated Number of Units | Estimated Cost | Total Estimated Cost |
|---------------------------------|----------------------------|---------------------------|----------------|----------------------|
| <b>Task 3</b>                   |                            |                           |                |                      |
| <i>Travel &amp; Subsistence</i> |                            |                           |                |                      |
| 1 Mileage                       | \$0.235 /mile              | 0 miles                   | \$0.00         |                      |
| 2 Airfare Buf to Islip          | \$500 /ticket              | 0 tickets                 | \$0.00         |                      |
| 3 Per Diem                      | At Cost                    | At Cost                   | \$0.00         | \$0.00               |
| <i>Other Direct Costs</i>       |                            |                           |                |                      |
| 1 Reproduction                  | \$0.06 /page               | 1,000 copies              | \$60.00        |                      |
| 2 Mail                          | At Cost                    | At Cost                   | \$50.00        |                      |
| 3 PC                            | \$5.00 /hour               | 0 hours                   | \$0.00         |                      |
| 4 CADD                          | \$15.00 /hour              | 0 hours                   | \$0.00         |                      |
| 5 Communication                 | At Cost                    | At Cost                   | \$40.00        | \$150.00             |
| <b>TOTAL - Task 3</b>           |                            |                           |                | <b>\$150.00</b>      |

|                                 |               |              |            |                   |
|---------------------------------|---------------|--------------|------------|-------------------|
| <b>Task 4</b>                   |               |              |            |                   |
| <i>Travel &amp; Subsistence</i> |               |              |            |                   |
| 1 Mileage                       | \$0.235 /mile | 852 miles    | \$200.22   |                   |
| 2 Travel                        | At Cost       | At Cost      | \$0.00     |                   |
| 3 Per Diem                      | \$151 /day    | 8 days       | \$1,208.00 |                   |
| 4 Tolls/Fuel                    | At Cost       | At Cost      | \$22.57    | \$1,430.79        |
| <i>Other Direct Costs</i>       |               |              |            |                   |
| 1 Reproduction                  | \$0.06 /page  | 2,956 copies | \$177.36   |                   |
| 2 Mail                          | At Cost       | At Cost      | \$42.64    |                   |
| 3 PC                            | \$5.00 /hour  | 1 hours      | \$5.15     |                   |
| 4 CADD                          | \$15.00 /hour | 0 hours      | \$0.00     |                   |
| 5 Communication                 | At Cost       | At Cost      | \$137.08   | \$362.23          |
| <b>TOTAL - Task 4</b>           |               |              |            | <b>\$1,793.02</b> |



**Table 2.11 (c)**

**DETAILED BREAKDOWN OF DIRECT NON-SALARY COSTS  
WA # 15.2**

**[WORKSHEET - to be submitted with Work Plan, but separately]**

| Item                            | Maximum Reimbursement Rate | Estimated Number of Units | Estimated Cost | Total Estimated Cost |
|---------------------------------|----------------------------|---------------------------|----------------|----------------------|
| <b>Task 5</b>                   |                            |                           |                |                      |
| <i>Travel &amp; Subsistence</i> |                            |                           |                |                      |
| 1 Mileage                       | \$0.235 /mile              | 0 miles                   | \$0.00         |                      |
| 2 Airfare Buf to Islip          | \$500 /ticket              | 1 tickets                 | \$500.00       |                      |
| 3 Per Diem                      | At Cost                    | At Cost                   | \$0.00         | \$500.00             |
| <i>Other Direct Costs</i>       |                            |                           |                |                      |
| 1 Reproduction                  | \$0.06 /page               | 2,500 copies              | \$150.00       |                      |
| 2 Mail                          | At Cost                    | At Cost                   | \$100.00       |                      |
| 3 PC                            | \$5.00 /hour               | 80 hours                  | \$400.00       |                      |
| 4 CADD                          | \$15.00 /hour              | 32 hours                  | \$480.00       |                      |
| 5 Communication                 | At Cost                    | At Cost                   | \$37.50        | \$1,167.50           |
| TOTAL - Task 5                  |                            |                           |                | \$1,667.50           |

|                                 |               |              |            |            |
|---------------------------------|---------------|--------------|------------|------------|
| <b>Task 6</b>                   |               |              |            |            |
| <i>Travel &amp; Subsistence</i> |               |              |            |            |
| 1 Mileage                       | \$0.235 /mile | 3,500 miles  | \$822.50   |            |
| 2 Travel/Subsistence            | At Cost       | At Cost      | \$0.00     |            |
| 3 Per Diem                      | \$151.00 /day | 15 days      | \$2,265.00 | \$3,087.50 |
| <i>Other Direct Costs</i>       |               |              |            |            |
| 1 Reproduction                  | \$0.06 /page  | 1,667 copies | \$100.00   |            |
| 2 Mail                          | At Cost       | At Cost      | \$0.00     |            |
| 3 PC                            | \$5.00 /hour  | 0 hours      | \$0.00     |            |
| 4 CADD                          | \$15.00 /hour | 48 hours     | \$725.00   |            |
| 5 Communication                 | At Cost       | At Cost      | \$215.00   | \$1,040.00 |
| TOTAL - Task 6                  |               |              |            | \$4,127.50 |

|                   |  |  |  |             |
|-------------------|--|--|--|-------------|
| TOTAL - All Tasks |  |  |  | \$19,733.39 |
|-------------------|--|--|--|-------------|

**Schedule 2.11 (d)**

**SUMMARY OF EQUIPMENT ACTIVITY  
WA # 15.2**

| <b>SCHEDULE</b>                              | <b>Estimated<br/>Quantity</b> | <b>Unit<br/>Cost</b> | <b>Total Budgeted<br/>Cost</b> |
|--|-------------------------------|----------------------|--------------------------------|
| Schedule 2.11(d)1 - Purchased Equipment      | At Cost                       | At Cost              | \$0.00                         |
| Schedule 2.11(d)2 - Malcolm Pirnie Rental    | At Cost                       | At Cost              | \$820.00                       |
| Schedule 2.11(d)3 - Rented Equipment         | At Cost*                      | At Cost              | \$6,449.51                     |
| Schedule 2.11(d)4 - Site Dedicated Equipment | At Cost*                      | At Cost              | \$0.00                         |
| Schedule 2.11(d)5 - Consumable Supplies      | At Cost*                      | At Cost              | \$6,242.60                     |
| <b>TOTAL</b>                                 |                               |                      | <b>\$13,512.11</b>             |

\* Detailed breakdown on given schedule

**Table 2.11 (d)1**

**EQUIPMENT PURCHASED UNDER THE CONTRACT**

**WA # 15.2**

**[WORKSHEET - to be submitted with Work Plan, but separately]**

| <b>Item</b>  | <b>Estimated Purchase Price</b> | <b>O&amp;M Rate</b> | <b>Estimated Usage</b> | <b>Estimated Usage Cost</b> |
|--------------|---------------------------------|---------------------|------------------------|-----------------------------|
| None         | \$0.00                          | \$0 /day            | 0 day(s)               | \$0.00                      |
| <b>Total</b> |                                 |                     |                        | <b>\$0.00</b>               |

*a) The O&M rate is reimbursable only while the equipment is in the custody of the Engineer*

*b) There will be no storage charge or capital recovery charge for equipment purchased by the Department*

**Table 2.11 (d) 2**

**MAXIMUM REIMBURSEMENT RATES - CONSULTANT OWNED EQUIPMENT  
WA # 15.2**

| <b>Item</b>             | <b>Purchase Price<br/>(x 85%)</b> | <b>O&amp;M*<br/>Rate</b> | <b>Estimated<br/>Usage</b> | <b>Estimated<br/>Usage Cost</b> |
|-------------------------|-----------------------------------|--------------------------|----------------------------|---------------------------------|
| <b>Task 2</b>           |                                   |                          |                            |                                 |
| Solonist                | \$0.00                            | \$30 /day                | 3 day(s)                   | \$90.00                         |
| Turbidity Meter         |                                   | \$25 /day                | 2 day(s)                   | \$50.00                         |
| Generator               |                                   | \$60 /day                | 6 day (s)                  | \$360.00                        |
| Metal Detector          |                                   | \$25 /day                | 1 day                      | \$25.00                         |
| 2" Grundolos pump       |                                   | \$115 /day               | 2 day(s)                   | \$230.00                        |
| DO Meter                |                                   | \$25 /day                | 1 day                      | \$25.00                         |
| YSI Water Quality Meter |                                   | \$40 /day                | 1 day                      | \$40.00                         |
| <b>Total</b>            |                                   |                          |                            | <b>\$820.00</b>                 |

*\*Since the monitoring wells did not require rehabilitation and to save time and money, Malcolm Pirnie completed the well development activities.*

*Costs incurred due to unprepared subcontractor and unforeseen site access problems.*

**Table 2.11 (d) 3**

**MAXIMUM REIMBURSEMENT RATES - VENDOR RENTED EQUIPMENT\*  
WA # 15.2**

| <b>Item</b>                           | <b>Unit Price</b> | <b>Quantity</b> | <b>Item Cost</b> | <b>Total Budgeted Cost</b> |
|---------------------------------------|-------------------|-----------------|------------------|----------------------------|
| <b>Task 2</b>                         |                   |                 |                  |                            |
| Water Level Indicator                 | \$50.00 /week     | 1 week(s)       | \$50.00          |                            |
| Water Level Meter                     | \$60.00 /week     | 2 weeks         | \$120.00         |                            |
| 30 psi 260 on 150' Teflon with jumper | \$160.63 /day     | 9 days          | \$1,445.67       |                            |
| SE1000 Lithium                        | \$286.02 /day     | 5 days          | \$1,430.10       |                            |
| Dust Monitor                          | \$33.53 /day      | 18 days         | \$603.54         |                            |
| HNU                                   | \$100.00 /day     | 4 days          | \$400.00         |                            |
| Minirac/PID                           | \$100.00 /day     | 4 days          | \$400.00         |                            |
| <b>Total - Task 2</b>                 |                   |                 |                  | <b>\$4,449.31</b>          |

|                       |                |        |          |                 |
|-----------------------|----------------|--------|----------|-----------------|
| <b>Task 4</b>         |                |        |          |                 |
| Water Level meter     | \$80.00 /week  | 1 week | \$80.00  |                 |
| Turbidity Meter       | \$65.00 /week  | 1 week | \$65.00  |                 |
| YSI pH/Temp           | \$75.20 /week  | 1 week | \$75.20  |                 |
| Conductivity Meter    | \$100.00 /week | 1 week | \$100.00 |                 |
| 2" Grundolos pump     | \$115.00 /day  | 1 days | \$115.00 |                 |
| HNU                   | \$100.00 /day  | 2 days | \$200.00 |                 |
| <b>Total - Task 4</b> |                |        |          | <b>\$635.20</b> |

**Table 2.11 (d) 3**

**MAXIMUM REIMBURSEMENT RATES - VENDOR RENTED EQUIPMENT\*  
WA # 15.2**

| <b>Item</b>            | <b>Unit Price</b> | <b>Quantity</b> | <b>Item Cost</b> | <b>Total Budgeted Cost</b> |
|------------------------|-------------------|-----------------|------------------|----------------------------|
| <b>Task 6</b>          |                   |                 |                  |                            |
| Water Level Meter      | \$65.00 /week     | 3 week          | \$195.00         |                            |
| Field Parameter Meters | \$115.00 /day     | 2 days          | \$230.00         |                            |
| Submersible Pump       | \$355.00 /day     | 2 days          | \$710.00         |                            |
| Generator              | \$115.00 /day     | 2 days          | \$230.00         |                            |
| <b>Total - Task 6</b>  |                   |                 |                  | <b>\$1,365.00</b>          |

|                          |                   |
|--------------------------|-------------------|
| <b>Total - All Tasks</b> | <b>\$6,449.51</b> |
|--------------------------|-------------------|

**Table 2.11 (d) 4**

**MAXIMUM REIMBURSEMENT RATES - SITE-DEDICATED EQUIPMENT  
WA # 15.2**

| <b>Item</b>  | <b>Unit Price</b> | <b>Estimated<br/>Quantity</b> | <b>Total Estimated<br/>Cost</b> |
|--------------|-------------------|-------------------------------|---------------------------------|
| None         | \$0.00 /unit      | 0 unit(s)                     | \$0.00                          |
| <b>Total</b> |                   |                               | <b>\$0.00</b>                   |

**Table 2.11 (d) 5**

**DETAILED BREAKDOWN OF CONSUMABLE SUPPLIES\*  
WA # 15.2**

| Item  | Unit Price | Quantity | Item Cost | Total Budgeted Cost |
|---|------------|----------|-----------|---------------------|
| <b>Task 1</b>                                 |            |          |           |                     |
| Miscellaneous Supplies (Up to \$1,000 total)* | Lump Sum   | Lump Sum | \$22.08   |                     |
| <b>Total Task 1</b>                           |            |          |           | <b>\$22.08</b>      |

|   |                  |               |            |                   |
|---|------------------|---------------|------------|-------------------|
| <b>Task 2</b>                                 |                  |               |            |                   |
| Miscellaneous Supplies (Up to \$1,000 total)* | Lump Sum         | Lump Sum      | \$1,000.00 |                   |
| Aerial Photographs/site map enlargement       | Lump Sum         | Lump Sum      | \$569.00   |                   |
| Personal Air Monitoring                       | \$140.00 /day    | 4 days        | \$560.00   |                   |
| Sample Shipping                               | Lump Sum         | Lump Sum      | \$1,322.22 |                   |
| Filters                                       | Lump Sum         | Lump Sum      | \$292.48   |                   |
| Steel Padlocks                                | Lump Sum         | Lump Sum      | \$132.74   |                   |
| 4" Locking plug with arm                      | Lump Sum         | Lump Sum      | \$159.30   |                   |
| PPE Level B                                   | \$71.00 /man-day | 0 /man-day(s) | \$0.00     |                   |
| PPE Level C                                   | \$30.00 /man-day | 0 /man-day(s) | \$0.00     |                   |
| PPE Level D                                   | \$14.00 /man-day | 0 /man-day(s) | \$0.00     |                   |
| <b>Total Task 2</b>                           |                  |               |            | <b>\$4,035.74</b> |



**Table 2.11 (d) 5**

**DETAILED BREAKDOWN OF CONSUMABLE SUPPLIES\*  
WA # 15.2**

| <b>Item</b>                                   | <b>Unit Price</b> | <b>Quantity</b> | <b>Item Cost</b> | <b>Total Budgeted Cost</b> |
|---|-------------------|-----------------|------------------|----------------------------|
| <b>Task 4</b>                                 |                   |                 |                  |                            |
| Miscellaneous Supplies (Up to \$1,000 total)* | Lump Sum          | Lump Sum        | \$4.40           |                            |
| Sample Shipping                               | Lump Sum          | Lump Sum        | \$79.38          |                            |
| Soil Characteristic Testing**                 | Lump Sum          | Lump Sum        | \$150.00         |                            |
| PPE Level B                                   | \$71.00 /man-day  | 0 /man-day(s)   | \$0.00           |                            |
| PPE Level C                                   | \$30.00 /man-day  | 0 /man-day(s)   | \$0.00           |                            |
| PPE Level D                                   | \$19.00 /man-day  | 0 /man-day(s)   | \$0.00           |                            |
| <b>Total Task 4</b>                           |                   |                 |                  | <b>\$233.78</b>            |

|   |                    |                |          |                   |
|---|--------------------|----------------|----------|-------------------|
| <b>Task 6</b>                                 |                    |                |          |                   |
| Miscellaneous Supplies (Up to \$1,000 total)* | Lump Sum           | Lump Sum       | \$200.00 |                   |
| Personal Air Monitoring                       | \$150.00 /activity | 3 activities   | \$450.00 |                   |
| Sample Shipping                               | Lump Sum           | Lump Sum       | \$600.00 |                   |
| PPE Level B                                   | \$71.00 /man-day   | 0 /man-day(s)  | \$0.00   |                   |
| PPE Level C                                   | \$30.00 /man-day   | 0 /man-day(s)  | \$0.00   |                   |
| PPE Level D                                   | \$19.00 /man-day   | 14 /man-day(s) | \$266.00 |                   |
| Stainless Steel Trowels                       | Lump Sum           | Lump Sum       | \$200.00 |                   |
| Bailers                                       | \$35.00 each       | 3 each         | \$105.00 |                   |
| Nylon Gloves                                  | Lump Sum           | Lump Sum       | \$30.00  |                   |
| Nalgene Filters                               | Lump Sum           | Lump Sum       | \$100.00 |                   |
| <b>Total Task 6</b>                           |                    |                |          | <b>\$1,951.00</b> |

|                          |  |  |  |                   |
|--------------------------|--|--|--|-------------------|
| <b>Total - All Tasks</b> |  |  |  | <b>\$6,242.60</b> |
|--------------------------|--|--|--|-------------------|

**Table 2.11 (d) 5**

**DETAILED BREAKDOWN OF CONSUMABLE SUPPLIES\*  
WA # 15.2**

| <b>Item</b> | <b>Unit Price</b> | <b>Quantity</b> | <b>Item Cost</b> | <b>Total Budgeted Cost</b> |
|-------------|-------------------|-----------------|------------------|----------------------------|
|-------------|-------------------|-----------------|------------------|----------------------------|

Notes:

\* Consumable supplies such as gas, diesel fuel, oil, film, stakes, ice, distilled water, rope shall be direct billed with appropriate receipts.

\*\* Soil characteristics include organic content, cation exchange capacity, gradation, atterberg limits, USCS soils classification, and moisture content

**Schedule 2.11 (e)**

**SUMMARY OF COST-PLUS-FIXED-FEE SUBCONTRACTORS  
WA # 15.2**

| Item                           | Services To Be Performed | Task Total         |               | Total              |
|--------------------------------|--------------------------|--------------------|---------------|--------------------|
|                                |                          | Task 2             | Task x        |                    |
| 1. Edward O. Watts, P.E., P.C. | Professional Services    | \$40,631.19        | \$0.00        | \$40,631.19        |
| 2. Vendor Unassigned           | Services unassigned      | \$0.00             | \$0.00        | \$0.00             |
| <b>TOTAL</b>                   |                          | <b>\$40,631.19</b> | <b>\$0.00</b> | <b>\$40,631.19</b> |

**Table 2.11 (e-1)**

**MAXIMUM REIMBURSEMENT RATES -  
COST-PLUS-FIXED-FEE SUBCONTRACTOR**

**Edward O. Watts, P.E., P.C.  
Professional Services**

**TASK 2**

| <b>A. Direct Salary Costs</b>  |   |                                    |                        |  |                    |  |
|--|---|------------------------------------|------------------------|--|--------------------|--|
| Professional Responsibility Level  | NSPE Labor Classification                 | Average Reimbursement Rate (\$/hr) | Estimated No. of Hours | Total Est. Direct Salary Cost<br><small>(Ave. Reim Rate x Est. # of hrs)</small> | Total Cost         |  |
| Officer  | IX  | \$49.04                            | 6                      | \$294.24   |                    |  |
| Sr. Environmental Scientist  | IV  | \$18.27                            | 62                     | \$1,132.74   |                    |  |
| Environmental Scientist  | II  | \$14.75                            | 338                    | \$4,985.50   |                    |  |
| Engineer   | II  | \$14.25                            | 44                     | \$627.00   |                    |  |
| <b>Total Direct Salary Costs</b>   |   |                                    |                        |  | <b>\$7,039.48</b>  |  |
| Footnotes: 1. These rates will be held firm until 12/31/96   |   |                                    |                        |  |                    |  |
| 2. Reimbursement will be limited to the lesser of either the individuals actual hourly rate or the maximum rate for each labor category.   |   |                                    |                        |  |                    |  |
| 3. Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed. |   |                                    |                        |  |                    |  |
| <b>B. Indirect Costs</b>   |   |                                    |                        |  |                    |  |
| - shall be paid based on a percentage of direct salary costs incurred and shall not exceed a maximum of 107 %                              |   |                                    |                        |  | <b>\$7,532.24</b>  |  |
| <b>C. Maximum Reimbursement Rates for Direct Non-Salary Costs</b>  |   |                                    |                        |  |                    |  |
| Item   | Maximum Reimbursement Rate (specify Unit) | Est. No. Units                     | Total Est. Cost        |  |                    |  |
| Copying  | \$0.04 /page                              | 2993                               | \$119.72               |  |                    |  |
| Per Diem   | \$151.00 /day                             | 20                                 | \$3,020.00             |  |                    |  |
| Vehicle Rental   | \$280.00 /week                            | 6                                  | \$1,680.00             |  |                    |  |
| HyDAC  | \$100.00 /week                            | 5                                  | \$500.00               |  |                    |  |
| Solinst  | \$75.00 /week                             | 5                                  | \$375.00               |  |                    |  |
| Turbidity Meter  | \$65.00 /week                             | 5                                  | \$325.00               |  |                    |  |
| Submersible Pumps (3)  | \$800.00 /week                            | 5                                  | \$4,000.00             |  |                    |  |
| Hose   | \$1.19 /foot                              | 793                                | \$943.67               |  |                    |  |
| Level D PPE  | \$14.00 /man-day                          | 25                                 | \$350.00               |  |                    |  |
| Personal Air Sampling  | \$150.00 /sample                          | 4                                  | \$600.00               |  |                    |  |
| Misc Supplies  | Lump Sum                                  |                                    | \$1,300.00             |  |                    |  |
| Shipping   | \$75.00 /day                              | 26                                 | \$1,950.00             |  |                    |  |
| Polyethylene Bailers   | \$8.00 /bailer                            | 84                                 | \$672.00               |  |                    |  |
| Peristaltic Pump   | \$85.00 /week                             | 4                                  | \$340.00               |  |                    |  |
| Tax and shipping on rented equipment   |   |                                    | \$1,005.00             |  |                    |  |
| Filter   | \$12.50 /each                             | 2                                  | \$25.00                |  |                    |  |
| <b>Total Direct Non-Salary Costs</b>   |   |                                    |                        |  | <b>\$17,205.39</b> |  |
| <b>D. Surveying Subcontractor</b>  |   |                                    |                        |  |                    |  |
|  |   |                                    |                        |  | <b>\$6,650.00</b>  |  |
| <b>E. Fixed Fee</b>  |   |                                    |                        |  |                    |  |
|  |   |                                    |                        |  | <b>\$2,204.08</b>  |  |

**Table 2.11 (e-1)**

**MAXIMUM REIMBURSEMENT RATES -  
COST-PLUS-FIXED-FEE SUBCONTRACTOR**

**Edward O. Watts, P.E., P.C.  
Professional Services**

|                       |                    |
|-----------------------|--------------------|
| <b>TOTAL - Task 2</b> | <b>\$40,631.19</b> |
|-----------------------|--------------------|

|                          |                    |
|--------------------------|--------------------|
| <b>TOTAL - All Tasks</b> | <b>\$40,631.19</b> |
|--------------------------|--------------------|

**Schedule 2.11 (f)**

**SUMMARY OF UNIT PRICE SUBCONTRACTORS  
WA # 15.2**

| Subcontractor                | Services To Be Performed | Task Number        |                    |                   |               |                 |               |                    |                 |                     |                |  |             | Total Subcontractor Cost | Total Management Fee |
|------------------------------|--------------------------|--------------------|--------------------|-------------------|---------------|-----------------|---------------|--------------------|-----------------|---------------------|----------------|--|-------------|--------------------------|----------------------|
|                              |                          | Task 2             |                    | Task 4            |               | Task 5          |               | Task 6             |                 | Total               | Management Fee |  |             |                          |                      |
|                              |                          | Cost               | Mngt. Fee          | Cost              | Mngt. Fee     | Cost            | Mngt. Fee     | Cost               | Mngt. Fee       |                     |                |  |             |                          |                      |
| 1. Engineering & Environment | Analytical Services      | \$44,350.00        | \$2,217.50         |                   |               |                 |               |                    |                 |                     |                |  | \$44,350.00 | \$2,217.50               |                      |
| 2. A/E Blueprinting Inc.     | Repro. Services          |                    |                    |                   |               | \$357.60        |               |                    |                 | \$765.60            |                |  | \$1,123.20  | \$0.00                   |                      |
| 3. SJB Services, Inc.        | Drilling Services        | \$18,643.50        | \$932.18           |                   |               |                 |               |                    |                 | \$11,974.00         | \$598.70       |  | \$30,617.50 | \$1,530.88               |                      |
| 4. Nancy Potak               | Data Validation          | \$7,385.00         |                    | \$907.50          |               |                 |               |                    |                 | \$285.00            |                |  | \$8,577.50  | \$0.00                   |                      |
| 5. Nytest Analytical         | Analytical               | \$3,840.00         |                    | \$3,682.00        |               |                 |               |                    |                 |                     |                |  | \$7,522.00  | \$0.00                   |                      |
| 6. Wendel Engineers          | Survey                   |                    |                    |                   |               |                 |               |                    |                 | \$4,000.00          |                |  | \$4,000.00  | \$0.00                   |                      |
| 7. Mitkem Corp.              | Analytical               |                    |                    |                   |               |                 |               |                    |                 | \$5,655.00          |                |  | \$5,655.00  | \$0.00                   |                      |
| <b>SUBTOTAL</b>              |                          | <b>\$74,218.50</b> | <b>\$3,149.68</b>  | <b>\$4,589.50</b> | <b>\$0.00</b> | <b>\$357.60</b> | <b>\$0.00</b> | <b>\$22,679.60</b> | <b>\$598.70</b> | <b>\$101,845.20</b> |                |  |             |                          |                      |
| <b>TASK Total</b>            |                          |                    | <b>\$77,368.18</b> | <b>\$4,589.50</b> |               | <b>\$357.60</b> |               | <b>\$23,278.30</b> |                 | <b>\$105,593.58</b> |                |  |             |                          |                      |

**Table 2.11 (f-1)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Engineering & Environment  
Analytical Services**

| Task / Subtask                  | Parameter                               | Method | Matrix | No. of Tests | Unit Rate <sup>(1)</sup> (\$) | Item Total (\$) | Subtask Total (\$) | Task Total (\$) |
|---------------------------------|---|--------|--------|--------------|-------------------------------|-----------------|--------------------|-----------------|
| <b>TASK 2</b>                   |   |        |        |              |                               |                 |                    |                 |
| Surface Soil Sampling           | Hexavalent Chromium                     | 218.4  | S      | 11           | \$60                          | \$660           | \$2,596            |                 |
|                                 | TAL Metals                              |        | S      | 11           | \$176                         | \$1,936         |                    |                 |
| Subsurface Investigation        | Volatiles                               | 91-1   | S      | 13           | \$165                         | \$2,145         | \$20,366           |                 |
|                                 | Semivolatiles                           | 91-2   | S      | 13           | \$385                         | \$5,005         |                    |                 |
|                                 | Hexavalent Chromium                     | 218.4  | S      | 56           | \$60                          | \$3,360         |                    |                 |
|                                 | TAL Metals                              |        | S      | 56           | \$176                         | \$9,856         |                    |                 |
| Hydropunch                      | Volatile Organics                       | 91-1   | W      | 3            | \$165                         | \$495           | \$8,860            |                 |
|                                 | Semivolatile                            | 91-2   | W      | 3            | \$385                         | \$1,155         |                    |                 |
|                                 | Hexavalent Chromium                     | 218.4  | W      | 35           | \$30                          | \$1,050         |                    |                 |
|                                 | TAL Metals                              |        | W      | 35           | \$176                         | \$6,160         |                    |                 |
| Round 1<br>Groundwater Sampling | Volatiles                               | 91-1   | W      | 2            | \$165                         | \$330           | \$12,528           |                 |
|                                 | Semivolatiles                           | 91-2   | W      | 2            | \$385                         | \$770           |                    |                 |
|                                 | Hexavalent Chromium                     | 218.4  | W      | 43           | \$30                          | \$1,290         |                    |                 |
|                                 | TAL Metals                              |        | W      | 48           | \$176                         | \$8,448         |                    |                 |
|                                 | Water Quality Parameters <sup>(2)</sup> |        | W      | 10           | \$169                         | \$1,690         |                    |                 |
| <b>TOTAL - Task 2</b>           |   |        |        |              |                               |                 | <b>\$44,350</b>    |                 |

**TOTAL - All Tasks** **\$44,350**

**Notes:**

- <sup>(1)</sup> Unit rates based on quoted rates for Subcontract with EEI
- <sup>(2)</sup> Water Quality Parameters include: hardness (Method 130.2), phosphate (Method 365.2), silica (Method 370.1), TOC (Method 415.1), strontium (Method 7780), ammonia (Method 350.2), alkalinity (Method 310.1), nitrate (Method 352.1), sulfate (Method 375.4), chloride (Method 325.3) and fluoride (Method 340.2)

Table 2.11 (f-2)

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**A/E Blueprinting Inc.  
Repro. Services**

| Item                  | Unit Cost     | No. of Units | Item Cost | Total           |
|-----------------------|---------------|--------------|-----------|-----------------|
| <b>TASK 6</b>         |               |              |           |                 |
| RI Report*            | \$31.90 /unit | 24 units     | \$765.60  |                 |
| <b>TOTAL - Task 6</b> |               |              |           | <b>\$765.60</b> |

|                       |               |          |          |                 |
|-----------------------|---------------|----------|----------|-----------------|
| <b>TASK 5</b>         |               |          |          |                 |
| FS Report**           | \$14.90 /unit | 24 units | \$357.60 |                 |
| <b>TOTAL - Task 5</b> |               |          |          | <b>\$357.60</b> |

|              |  |  |  |                   |
|--------------|--|--|--|-------------------|
| <b>TOTAL</b> |  |  |  | <b>\$1,123.20</b> |
|--------------|--|--|--|-------------------|

**Notes:**

\* The RI Report Unit consists of 350 (8-1/2" x 11") sheets and 10 (11" x 17") sheets.  
In addition 12 blueprints will be inserted in back pockets.  
Twelve copies are assumed for the draft and 12 copies are assumed for the final RI report.

\*\* The FS Report Unit consists of 150 (8-1/2" x 11") sheets and 10 (11" x 17") sheets.  
Twelve copies are assumed for the draft and 12 copies are assumed for the final FS Report.



**Table 2.11 (f-3)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**SJB Services, Inc.  
Drilling Services**

| <b>Task / Subtask / Item Description</b>                                    | <b>Unit Price</b> | <b>Quantity</b> | <b>Item Cost</b> | <b>Subtask Total</b> | <b>Task Total</b>  |
|---|-------------------|-----------------|------------------|----------------------|--------------------|
| <b>TASK 2</b>   |                   |                 |                  |                      |                    |
| Mobilization/Demobilization...<br>of Rig, Support Equipment, and Materials  | Lump Sum          | Lump Sum        | \$1,001          | \$1,001              |                    |
| Boreholes <sup>(1)</sup><br>4 1/4" hollow stem auger drilling (0 to 50')    | \$10 /ft          | 204 ft          | \$2,040          |                      |                    |
| Split Spoon Sampling:<br>2" Diameter (0 to 50')                             | \$6 /ea.          | 50 ea.          | \$300            |                      |                    |
| Grouting of borehole  | \$6 /ft           | 200 ft          | \$1,200          | \$3,540              |                    |
| Hydropunch Sampling<br>4 1/4" hollow stem auger drilling (0 to 50')         | \$10 /ft          | 500 ft          | \$5,000          |                      |                    |
| Hydropunch Samples  | \$130 /ea.        | 20 ea.          | \$2,600          |                      |                    |
| Grouting of borehole  | \$6 /ft           | 400 ft          | \$2,400          | \$10,000             |                    |
| Other Costs:  |                   |                 |                  |                      |                    |
| Decontamination Pad   | \$500             | 1               | \$500            |                      |                    |
| 55-Gallon Drums   | \$35 /drum        | 25 drums        | \$875            |                      |                    |
| Drum Handling   | \$140 /hour       | 3 hours         | \$420            |                      |                    |
| Rate per rig-crew hour for awaiting<br>decisions, meetings and equip. decon | \$130 /hour       | 2 hour          | \$260            |                      |                    |
| Decon Time  | \$130 /hour       | 13.75 hour      | \$1,788          | \$3,843              |                    |
| Well development  | \$130 /hour       | 2 hours         | \$260            | \$260                |                    |
| <b>TOTAL - Task 2</b>   |                   |                 |                  |                      | <b>\$18,643.50</b> |

**Table 2.11 (f-3)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**SJB Services, Inc.  
Drilling Services**

| <b>Task / Subtask / Item Description</b>                                    | <b>Unit Price</b> | <b>Quantity</b> | <b>Item Cost</b> | <b>Subtask Total</b> | <b>Task Total</b> |
|---|-------------------|-----------------|------------------|----------------------|-------------------|
| <b>TASK 6</b>   |                   |                 |                  |                      |                   |
| Mobilization/Demobilization...<br>of Rig, Support Equipment, and Materials  | \$500 /mob        | 1 mobs          | \$500            | \$500                |                   |
| Mobilization/Demobilization...<br>of Dozer                                  | \$600 /mob        | 1 mobs          | \$600            | \$600                |                   |
| Mobilization/Demobilization...<br>of Chipper                                | \$300 /mob        | 1 mobs          | \$300            | \$300                |                   |
| Boreholes <sup>(1)</sup>  |                   |                 |                  |                      |                   |
| 4 1/4" hollow stem auger drilling   | \$10 /ft          | 0 ft            | \$0              |                      |                   |
| Split Spoon Sampling:<br>2" Diameter  | \$6 /ea.          | 0 ea.           | \$0              |                      |                   |
| Grouting of borehole  | \$6 /ft           | 0 ft            | \$0              | \$0                  |                   |
| Hydropunch Sampling   |                   |                 |                  |                      |                   |
| 4 1/4" hollow stem auger drilling   | \$10 /ft          | 380 ft          | \$3,800          |                      |                   |
| Hydropunch Samples  | \$130 /ea.        | 15 ea.          | \$1,950          |                      |                   |
| Split Spoon Sampling:<br>2" Diameter  | \$6 /ea.          | 34 ea.          | \$204            |                      |                   |
| Grouting of borehole  | \$6 /ft           | 0 ft            | \$0              | \$5,954              |                   |
| Monitoring Wells  |                   |                 |                  |                      |                   |
| 6 1/4" auger drilling   | \$16 /ft          | 0 ft            | \$0              |                      |                   |
| Split Spoon Sampling:<br>2" Diameter  | \$6 /ea.          | 0 ea.           | \$0              |                      |                   |
| 4" PVC well installed   | \$18 /ft          | 0 ft            | \$0              |                      |                   |
| 6" protective casing & pad  | \$200 /ea.        | 0 ea.           | \$0              |                      |                   |
| Well Development  | \$130 /hour       | 0 hours         | \$0              | \$0                  |                   |
| Other Costs:  |                   |                 |                  |                      |                   |
| Decontamination Pad   | \$500             | 1               | \$0              |                      |                   |
| 55-Gallon Drums   | \$35 /drum        | 0 drums         | \$0              |                      |                   |
| Drum Handling   | \$130 /hour       | 1 hours         | \$98             |                      |                   |
| Rate per rig-crew hour for awaiting<br>decisions, meetings and equip. decon | \$130 /hour       | 7 hour          | \$910            |                      |                   |
| Decon Time  | \$130 /hour       | 6 hour          | \$813            | \$1,820              |                   |
| Crew to run dozer   | \$800 /day        | 2 days          | \$1,600          | \$1,600              |                   |
| Chipper   | \$400 /day        | 2 days          | \$800            | \$800                |                   |
| Dozer Operation on site   | \$400 /day        | 1 days          | \$400            | \$400                |                   |
| <b>TOTAL - Task 6</b>   |                   |                 |                  |                      | <b>\$11,974</b>   |

|              |                 |
|--------------|-----------------|
| <b>TOTAL</b> | <b>\$30,618</b> |
|--------------|-----------------|

**Table 2.11 (f-3)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**SJB Services, Inc.  
Drilling Services**

| <b>Task / Subtask / Item Description</b> | <b>Unit Price</b> | <b>Quantity</b> | <b>Item<br/>Cost</b> | <b>Subtask<br/>Total</b> | <b>Task<br/>Total</b> |
|--|-------------------|-----------------|----------------------|--------------------------|-----------------------|
|--|-------------------|-----------------|----------------------|--------------------------|-----------------------|

**Notes:**

<sup>(1)</sup> Unit Costs are for Level D personal protection requirements.

**Table 2.11 (f-4)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Nancy Potak  
Data Validation**

| <b>Task / Subtask</b> | <b>Parameter</b> | <b>Method</b> | <b>Matrix</b> | <b>No. of Tests</b> | <b>Unit Rate <sup>(1)</sup> (\$)</b> | <b>Item Cost (\$)</b> | <b>Task Total (\$)</b> |
|-----------------------|------------------|---------------|---------------|---------------------|--------------------------------------|-----------------------|------------------------|
| <b>TASK 2</b>         |                  |               |               |                     |                                      |                       |                        |
| Surface Soil Sampling | TAL Metals       | Superfund     | S             | 16                  | \$32.00                              | \$512.00              |                        |
|                       | Hexavalent Chro  | 218.4         | S             | 16                  | \$1.25                               | \$20.00               |                        |
| Soil Borings          | TAL - Metals     | Superfund     | S             | 60                  | \$32.00                              | \$1,920.00            |                        |
|                       | Volatiles        | 91-1          | S             | 21                  | \$22.00                              | \$462.00              |                        |
|                       | Hexavalent Chro  | 218.4         | S             | 60                  | \$1.25                               | \$75.00               |                        |
|                       | Semivolatiles    | 91-2          | S             | 21                  | \$28.00                              | \$588.00              |                        |
| Round 1 Groundwater   | TAL - Metals     | Superfund     | W             | 54                  | \$28.00                              | \$1,512.00            |                        |
|                       | Hexavalent Chro  | 218.4         | W             | 54                  | \$1.00                               | \$54.00               |                        |
|                       | Volatiles        | 91-1          | W             | 9                   | \$18.00                              | \$162.00              |                        |
|                       | Semivolatiles    | 91-2          | W             | 8                   | \$23.00                              | \$184.00              |                        |
| Round 2 Groundwater   | TAL - Metals     | Superfund     | W             | 24                  | \$28.00                              | \$672.00              |                        |
|                       | Hexavalent Chro  | 218.4         | W             | 26                  | \$1.00                               | \$26.00               |                        |
| Hydropunch Samples    | TAL - Metals     | Superfund     | W             | 30                  | \$28.00                              | \$840.00              |                        |
|                       | Hexavalent Chro  | 218.4         | W             | 30                  | \$1.00                               | \$30.00               |                        |
|                       | Volatiles        | 91-1          | W             | 8                   | \$18.00                              | \$144.00              |                        |
|                       | Semivolatiles    | 91-2          | W             | 8                   | \$23.00                              | \$184.00              |                        |
| <b>TOTAL - Task 2</b> |                  |               |               |                     |                                      | <b>\$7,385.00</b>     |                        |

**Table 2.11 (f-4)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Nancy Potak  
Data Validation**

| <b>Task / Subtask</b>     | <b>Parameter</b> | <b>Method</b> | <b>Matrix</b> | <b>No. of Tests</b> | <b>Unit Rate <sup>(1)</sup> (\$)</b> | <b>Item Cost (\$)</b> | <b>Task Total (\$)</b> |
|---------------------------|------------------|---------------|---------------|---------------------|--------------------------------------|-----------------------|------------------------|
| <b>TASK 4</b>             |                  |               |               |                     |                                      |                       |                        |
| Phase II RI Soil Sampling | Hex. Chromium    | 218.4         | S             | 31                  | \$1.70                               | \$52.70               |                        |
|                           | Antimony         | 204.2         | S             | 14                  | \$1.70                               | \$23.80               |                        |
|                           | Arsenic          | 206.2         | S             | 31                  | \$1.70                               | \$52.70               |                        |
|                           | Chromium         | 218.2         | S             | 31                  | \$1.70                               | \$52.70               |                        |
|                           | Copper           | 220.2         | S             | 31                  | \$1.70                               | \$52.70               |                        |
|                           | Iron             | 236.2         | S             | 14                  | \$1.70                               | \$23.80               |                        |
|                           | Lead             | 339.2         | S             | 31                  | \$1.70                               | \$52.70               |                        |
|                           | Mercury          | 245.5         | S             | 14                  | \$1.70                               | \$23.80               |                        |
|                           | Nickel           | 249.2         | S             | 14                  | \$1.70                               | \$23.80               |                        |
|                           | Zinc             | 289.2         | S             | 14                  | \$1.70                               | \$23.80               |                        |
| Round 3 Groundwater       | Hex. Chromium    | 218.4         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Antimony         | 204.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Arsenic          | 206.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Chromium         | 218.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Copper           | 220.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Iron             | 236.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Lead             | 339.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Mercury          | 245.5         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Nickel           | 249.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
|                           | Zinc             | 289.2         | W             | 26                  | \$1.25                               | \$32.50               |                        |
| FS Soil                   | TCLP             |               | S             | 2                   | \$100.00                             | \$200.00              |                        |
| <b>TOTAL - Task 4</b>     |                  |               |               |                     |                                      | <b>\$907.50</b>       |                        |

**Table 2.11 (f-4)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Nancy Potak  
Data Validation**

| <b>Task / Subtask</b> | <b>Parameter</b> | <b>Method</b> | <b>Matrix</b> | <b>No. of Tests</b> | <b>Unit Rate <sup>(1)</sup> (\$)</b> | <b>Item Cost (\$)</b> | <b>Task Total (\$)</b> |
|-----------------------|------------------|---------------|---------------|---------------------|--------------------------------------|-----------------------|------------------------|
| <b>TASK 6</b>         |                  |               |               |                     |                                      |                       |                        |
| Soil                  | Hex. Chromium    | 218.4         | S             | 0                   | \$1.25                               | \$0.00                |                        |
|                       | Arsenic          | 206.2         | S             | 24                  | \$1.25                               | \$30.00               |                        |
|                       | Chromium         | 218.2         | S             | 24                  | \$1.25                               | \$30.00               |                        |
|                       | Copper           | 220.2         | S             | 24                  | \$1.25                               | \$30.00               |                        |
|                       | Lead             | 339.2         | S             | 24                  | \$1.25                               | \$30.00               |                        |
|                       | Zinc             | 289.2         | S             | 24                  | \$1.25                               | \$30.00               |                        |
| Groundwater           | Hex. Chromium    | 218.4         | W             | 18                  | \$1.25                               | \$22.50               |                        |
|                       | Arsenic          | 206.2         | W             | 18                  | \$1.25                               | \$22.50               |                        |
|                       | Chromium         | 218.2         | W             | 18                  | \$1.25                               | \$22.50               |                        |
|                       | Copper           | 220.2         | W             | 18                  | \$1.25                               | \$22.50               |                        |
|                       | Lead             | 339.2         | W             | 18                  | \$1.25                               | \$22.50               |                        |
|                       | Zinc             | 289.2         | W             | 18                  | \$1.25                               | \$22.50               |                        |
| <b>TOTAL - Task 6</b> |                  |               |               |                     |                                      |                       | <b>\$285.00</b>        |

|              |                   |
|--------------|-------------------|
| <b>TOTAL</b> | <b>\$8,577.50</b> |
|--------------|-------------------|

Notes:

<sup>(1)</sup> Unit rates based on quoted rates for Subcontract with Nancy Potak

**Table 2.11 (f-5)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Nytest Analytical  
Analytical**

| <b>Task / Subtask</b>  | <b>Parameter</b>                        | <b>Method</b> | <b>Matrix</b> | <b>No. of Tests</b> | <b>Unit Rate <sup>(1)</sup> (\$)</b> | <b>Item Cost (\$)</b> | <b>Task Total (\$)</b> |
|------------------------|---|---------------|---------------|---------------------|--------------------------------------|-----------------------|------------------------|
| <b>TASK 2</b>          |   |               |               |                     |                                      |                       |                        |
| Round 3<br>Groundwater | Hex. Chromium                           | 218.4         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Antimony                                | 204.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Arsenic                                 | 206.2         | W             | 24                  | \$13.00                              | \$312.00              |                        |
|                        | Chromium                                | 218.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Copper                                  | 220.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Iron                                    | 236.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Lead                                    | 339.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Mercury                                 | 245.5         | W             | 24                  | \$13.00                              | \$312.00              |                        |
|                        | Nickel                                  | 249.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Zinc                                    | 289.2         | W             | 24                  | \$10.00                              | \$240.00              |                        |
|                        | Water Quality Parameters <sup>(2)</sup> |               |               | 12                  | \$108.00                             | \$1,296.00            |                        |
| <b>TOTAL - Task 2</b>  |   |               |               |                     |                                      | <b>\$3,840.00</b>     |                        |

|                              |               |       |   |    |         |          |  |
|------------------------------|---------------|-------|---|----|---------|----------|--|
| <b>TASK 4</b>                |               |       |   |    |         |          |  |
| Phase II RI Soil<br>Sampling | Hex. Chromium | 218.4 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Antimony      | 204.2 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Arsenic       | 206.2 | S | 12 | \$13.00 | \$156.00 |  |
|                              | Chromium      | 218.2 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Copper        | 220.2 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Iron          | 236.2 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Lead          | 339.2 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Mercury       | 245.5 | S | 12 | \$13.00 | \$156.00 |  |
|                              | Nickel        | 249.2 | S | 12 | \$10.00 | \$120.00 |  |
|                              | Zinc          | 289.2 | S | 12 | \$10.00 | \$120.00 |  |

**Table 2.11 (f-5)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Nytest Analytical  
Analytical**

| <b>Task / Subtask</b>  | <b>Parameter</b> | <b>Method</b> | <b>Matrix</b> | <b>No. of Tests</b> | <b>Unit Rate <sup>(1)</sup> (\$)</b> | <b>Item Cost (\$)</b> | <b>Task Total (\$)</b> |
|------------------------|------------------|---------------|---------------|---------------------|--------------------------------------|-----------------------|------------------------|
| Round 3<br>Groundwater | Hex. Chromium    | 218.4         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Antimony         | 204.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Arsenic          | 206.2         | W             | 20                  | \$13.00                              | \$260.00              |                        |
|                        | Chromium         | 218.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Copper           | 220.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Iron             | 236.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Lead             | 339.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Mercury          | 245.5         | W             | 20                  | \$13.00                              | \$260.00              |                        |
|                        | Nickel           | 249.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
|                        | Zinc             | 289.2         | W             | 20                  | \$10.00                              | \$200.00              |                        |
| FS Soil Sample         | TCLP             | (3)           | S             | 2                   | \$145.00                             | \$290.00              |                        |
| <b>TOTAL - Task 4</b>  |                  |               |               |                     |                                      |                       | <b>\$3,682.00</b>      |

|              |                   |
|--------------|-------------------|
| <b>TOTAL</b> | <b>\$7,522.00</b> |
|--------------|-------------------|

**Notes:**

- <sup>(1)</sup> Unit rates based on quoted rates for Subcontract with Nytest
- <sup>(2)</sup> Water Quality Parameters include: hardness (Method 130.2), phosphate (Method 365.2), silica (Method 370.1), TOC (Method 415.1), strontium (Method 7780), ammonia (Method 350.2), alkalinity (Method 310.1), nitrate (Method 352.1), sulfate (Method 375.4), chloride (Method 325.3) and fluoride (Method 340.2)
- <sup>(3)</sup> Will analyze for metals only since no volatile or semi-volatile compounds were detected in previous soil sample. Will use the same test methods as above.



**Table 2.11 (f-6)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Wendel Engineers  
Survey**

| <b>Item</b>   | <b>Unit Cost</b> | <b>No. of Items</b> | <b>Total Cost</b> |
|---|------------------|---------------------|-------------------|
| Sample locations and elevations:<br>8 hydropunch, 3 monitoring<br>well, 41 soil samples | Lump Sum         | Lump Sum            | \$4,000.00        |
| <b>TOTAL</b>  |                  |                     | <b>\$4,000.00</b> |
|   |                  |                     |                   |

**Table 2.11 (f-7)**

**DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS**

**Mitkem Corp.  
Analytical**

| <b>Task / Subtask</b>       | <b>Parameter</b> | <b>Method</b> | <b>Matrix</b> | <b>No. of Tests</b> | <b>Unit Rate <sup>(1)</sup> (\$)</b> | <b>Item Cost (\$)</b> | <b>Task Total (\$)</b> |
|-----------------------------|------------------|---------------|---------------|---------------------|--------------------------------------|-----------------------|------------------------|
| <b>TASK 6</b>               |                  |               |               |                     |                                      |                       |                        |
| Groundwater**<br>Hydropunch | Hex. Chromium    | 218.4         | W             | 18                  | \$30.00                              | \$540.00              |                        |
|                             | Arsenic          | 206.2         | W             | 18                  | \$30.00                              | \$540.00              |                        |
|                             | Chromium         | 218.2         | W             | 18                  | \$30.00                              | \$540.00              |                        |
|                             | Copper           | 220.2         | W             | 18                  | \$30.00                              | \$540.00              |                        |
|                             | Lead             | 339.2         | W             | 18                  | \$30.00                              | \$540.00              |                        |
|                             | Zinc             | 289.2         | W             | 18                  | \$30.00                              | \$540.00              |                        |
| Soil*                       | Hex. Chromium    | 218.4         | W             | 0                   | \$23.00                              | \$0.00                |                        |
|                             | Arsenic          | 206.2         | W             | 21                  | \$23.00                              | \$483.00              |                        |
|                             | Chromium         | 218.2         | W             | 21                  | \$23.00                              | \$483.00              |                        |
|                             | Copper           | 220.2         | W             | 21                  | \$23.00                              | \$483.00              |                        |
|                             | Lead             | 339.2         | W             | 21                  | \$23.00                              | \$483.00              |                        |
|                             | Zinc             | 289.2         | W             | 21                  | \$23.00                              | \$483.00              |                        |
| <b>TOTAL - Task 6</b>       |                  |               |               |                     |                                      | <b>\$5,655.00</b>     |                        |

\* one week turn around for receipt of data

\*\* Forty-eight hour turn around

**Notes:**

- (1) Unit rates based on quoted rates for Subcontract with Mitkem.
- (2) Water Quality Parameters include: hardness (Method 130.2), phosphate (Method 365.2), silica (Method 370.1), TOC (Method 415.1), strontium (Method 7780), ammonia (Method 350.2), alkalinity (Method 310.1), nitrate (Method 352.1), sulfate (Method 375.4), chloride (Method 325.3) and fluoride (Method 340.2)
- (3) Will analyze for metals only since no volatile or semi-volatile compounds were detected in previous soil sample. Will use the same test methods as above.

ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/AWA #: D - 002852 - 15.2

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

**MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION**

BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

PROJECT NAME: BB&S RI/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: SUMMARY

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #n-month) | B<br>PAID TO DATE (thru CAP #n-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (F-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|---|---------------------------------------|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |   |                                       |   |  |   | \$81,630.49                 |                                 |
| 1a. INDIRECT COST - 1.538 %   |   |                                       |   |  |   | \$125,547.69                |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                             |   |                                       |   |  |   | \$207,178.18                |                                 |
| 2a. OVER-TIME SALARY  |   |                                       |   |  |   | \$0.00                      |                                 |
| 3. SUBTOTAL: Direct Salary, Indirect Cost and Over-time Cost (2+2a) |   |                                       |   |  |   | \$207,178.18                |                                 |
| 4. TRAVEL & SUBSISTENCE   |   |                                       |   |  |   | \$12,762.71                 |                                 |
| 5. OTHER NON-SALARY COST  |   |                                       |   |  |   | \$20,482.79                 |                                 |
| 6. SUBTOTAL: Direct Non-Salary Cost (4+5)                           |   |                                       |   |  |   | \$33,245.50                 |                                 |
| 7. SUBCONTRACTORS<br>Management Fee included above                  |   |                                       |   |  |   | \$146,224.77<br>\$3,748.38  |                                 |
| 8. TOTAL CONTRACT COST (3+6+7)                                      |   |                                       |   |  |   | \$386,648.45                |                                 |
| 9. FIXED FEE - 10.3 %   |   |                                       |   |  |   | \$21,792.84                 |                                 |
| 10. TOTAL CONTRACT PRICE (8+9)                                      |   |                                       |   |  |   | \$408,441.29                |                                 |
| 11. RETAINAGE - 5 %   |   |                                       |   |  |   | \$20,422.06                 |                                 |
| 12. CAP FORM SUBMISSION   |   |                                       |   |  |   | \$388,019.22                |                                 |

PROJECT MANAGER ENGINEER \_\_\_\_\_

DATE \_\_\_\_\_

ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/WA #: D - 002852 - 15.2

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

**MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION**

BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

PROJECT NAME: BB&S RI/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: 1-Workplan

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #n-month) | B<br>PAID TO DATE (thru CAP #n-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (F-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|---|---------------------------------------|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |   |                                       |   |  |   | \$9,055.49                  |                                 |
| 1a. INDIRECT COST - 1.538 %   |   |                                       |   |  |   | \$13,927.34                 |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                             |   |                                       |   |  |   | \$22,982.82                 |                                 |
| 2a. OVER-TIME SALARY  |   |                                       |   |  |   | \$0.00                      |                                 |
| 3. SUBTOTAL: Direct Salary, Indirect Cost and Over-time Cost (2+2a) |   |                                       |   |  |   | \$22,982.82                 |                                 |
| 4. TRAVEL & SUBSISTENCE   |   |                                       |   |  |   | \$1,792.08                  |                                 |
| 5. OTHER NON-SALARY COST  |   |                                       |   |  |   | \$855.49                    |                                 |
| 6. SUBTOTAL: Direct Non-Salary Cost (4+5)                           |   |                                       |   |  |   | \$2,647.57                  |                                 |
| 7. SUBCONTRACTORS Management Fee included above                     |   |                                       |   |  |   | \$0.00<br>\$0.00            |                                 |
| 8. TOTAL CONTRACT COST (3+6+7)                                      |   |                                       |   |  |   | \$25,630.39                 |                                 |
| 9. FIXED FEE - 10.3 %   |   |                                       |   |  |   | \$2,329.04                  |                                 |
| 10. TOTAL CONTRACT PRICE (8+9)                                      |   |                                       |   |  |   | \$27,959.43                 |                                 |

PROJECT MANAGER ENGINEER \_\_\_\_\_

DATE \_\_\_\_\_

ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/WA #: D - 002852 - 15.2  
 PROJECT NAME: BB&S R/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: 2-Remedial Investigation

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

**MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION**  
 BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #n-month) | B<br>PAID TO DATE (thru CAP #n-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (E-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|---|---------------------------------------|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |   |                                       |   |  |   | \$32,963.89                 |                                 |
| 1a. INDIRECT COST - 1.538 %   |   |                                       |   |  |   | \$50,698.46                 |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                             |   |                                       |   |  |   | \$83,662.34                 |                                 |
| 2a. OVER-TIME SALARY  |   |                                       |   |  |   | \$0.00                      |                                 |
| 3. SUBTOTAL: Direct Salary, Indirect Cost and Over-time Cost (2+2a) |   |                                       |   |  |   | \$83,662.34                 |                                 |
| 4. TRAVEL & SUBSISTENCE   |   |                                       |   |  |   | \$5,952.34                  |                                 |
| 5. OTHER NON-SALARY COST  |   |                                       |   |  |   | \$12,722.59                 |                                 |
| 6. SUBTOTAL: Direct Non-Salary Cost (4+5)                           |   |                                       |   |  |   | \$18,674.93                 |                                 |
| 7. SUBCONTRACTORS Management Fee included above                     |   |                                       |   |  |   | \$117,999.37                |                                 |
| 8. TOTAL CONTRACT COST (3+6+7)                                      |   |                                       |   |  |   | \$3,149.68                  |                                 |
| 9. FIXED FEE - 10.3 %   |   |                                       |   |  |   | \$220,336.64                |                                 |
| 10. TOTAL CONTRACT PRICE (8+9)                                      |   |                                       |   |  |   | \$8,881.00                  |                                 |
|   |   |                                       |   |  |   | \$229,217.64                |                                 |

PROJECT MANAGER ENGINEER \_\_\_\_\_

DATE \_\_\_\_\_

ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/WA #: D - 002852 - 15.2  
 PROJECT NAME: BB&S RI/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: 3-Engineering Evaluation

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION  
 BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #fn-month) | B<br>PAID TO DATE (thru CAP #fn-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (F-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|--|--|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |  |  |   |  |   | \$5,969.54                  |                                 |
| 1a. INDIRECT COST - 1.538 %   |  |  |   |  |   | \$9,181.14                  |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                             |  |  |   |  |   | \$15,150.68                 |                                 |
| 2a. OVER-TIME SALARY  |  |  |   |  |   | \$0.00                      |                                 |
| 3. SUBTOTAL: Direct Salary, Indirect Cost and Over-time Cost (2+2a) |  |  |   |  |   | \$15,150.68                 |                                 |
| 4. TRAVEL & SUBSISTENCE   |  |  |   |  |   | \$0.00                      |                                 |
| 5. OTHER NON-SALARY COST  |  |  |   |  |   | \$150.00                    |                                 |
| 6. SUBTOTAL: Direct Non-Salary Cost (4+5)                           |  |  |   |  |   | \$150.00                    |                                 |
| 7. SUBCONTRACTORS Management Fee included above                     |  |  |   |  |   | \$0.00                      |                                 |
| 8. TOTAL CONTRACT COST (3+6+7)                                      |  |  |   |  |   | \$15,300.68                 |                                 |
| 9. FIXED FEE - 10.3 %   |  |  |   |  |   | \$1,582.00                  |                                 |
| 10. TOTAL CONTRACT PRICE (8+9)                                      |  |  |   |  |   | \$16,882.68                 |                                 |

PROJECT MANAGER ENGINEER \_\_\_\_\_

DATE \_\_\_\_\_

ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/WA #: D - 002852 - 15.2

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

**MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION**

BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

PROJECT NAME: BB&S RI/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: 4-Phase II RJ

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #fn-month) | B<br>PAID TO DATE (thru CAP #fn-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (F-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|--|--|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |  |  |   |  |   | \$4,894.85                  |                                 |
| 1a. INDIRECT COST - 1.538 %   |  |  |   |  |   | \$7,528.27                  |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                             |  |  |   |  |   | \$12,423.12                 |                                 |
| 2a. OVER-TIME SALARY  |  |  |   |  |   | \$0.00                      |                                 |
| 3. SUBTOTAL: Direct Salary, Indirect Cost and Over-time Cost (2+2a) |  |  |   |  |   | \$12,423.12                 |                                 |
| 4. TRAVEL & SUBSISTENCE   |  |  |   |  |   | \$1,430.79                  |                                 |
| 5. OTHER NON-SALARY COST  |  |  |   |  |   | \$1,231.21                  |                                 |
| 6. SUBTOTAL: Direct Non-Salary Cost (4+5)                           |  |  |   |  |   | \$2,662.00                  |                                 |
| 7. SUBCONTRACTORS Management Fee included above                     |  |  |   |  |   | \$4,589.50<br>\$0.00        |                                 |
| 8. TOTAL CONTRACT COST (3+6+7)                                      |  |  |   |  |   | \$19,674.62                 |                                 |
| 9. FIXED FEE - 10.3 %   |  |  |   |  |   | \$1,486.00                  |                                 |
| 10. TOTAL CONTRACT PRICE (8+9)                                      |  |  |   |  |   | \$21,160.62                 |                                 |

PROJECT MANAGER ENGINEER \_\_\_\_\_

DATE \_\_\_\_\_

ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/AWA #: D - 002852 - 15.2

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

**MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION**

BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

PROJECT NAME: BB&S RI/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: 5-Focused FS

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #n-month) | B<br>PAID TO DATE (thru CAP #n-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (F-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|---|---------------------------------------|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |   |                                       |   |  |   | \$13,020.40                 |                                 |
| 1a. INDIRECT COST - 1.538 %   |   |                                       |   |  |   | \$20,025.38                 |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                             |   |                                       |   |  |   | \$33,045.78                 |                                 |
| 2a. OVER-TIME SALARY  |   |                                       |   |  |   | \$0.00                      |                                 |
| 3. SUBTOTAL: Direct Salary, Indirect Cost and Over-time Cost (2+2a) |   |                                       |   |  |   | \$33,045.78                 |                                 |
| 4. TRAVEL & SUBSISTENCE   |   |                                       |   |  |   | \$500.00                    |                                 |
| 5. OTHER NON-SALARY COST  |   |                                       |   |  |   | \$1,167.50                  |                                 |
| 6. SUBTOTAL: Direct Non-Salary Cost (4+5)                           |   |                                       |   |  |   | \$1,667.50                  |                                 |
| 7. SUBCONTRACTORS Management Fee included above                     |   |                                       |   |  |   | \$357.60<br>\$0.00          |                                 |
| 8. TOTAL CONTRACT COST (3+6+7)                                      |   |                                       |   |  |   | \$35,070.88                 |                                 |
| 9. FIXED FEE - 10.3 %   |   |                                       |   |  |   | \$3,403.71                  |                                 |
| 10. TOTAL CONTRACT PRICE (8+9)                                      |   |                                       |   |  |   | \$38,474.59                 |                                 |

PROJECT MANAGER ENGINEER \_\_\_\_\_

DATE \_\_\_\_\_



ENGINEER: MALCOLM PIRNIE, INC  
 NYSDEC CONTRACT/A # : D - 002852 - 15.2  
 PROJECT NAME: BB&S RI/FS  
 MPI PROJECT #: 0266-323  
 NYSDEC TASK #/NAME: 6-Supplemental Investigation

**SCHEDULE 2.11 (g)**

DATE PREPARED: 24-Nov-97

BILLING PERIOD: 00/00/00 - 00/00/00  
 MPI STATEMENT #: n  
 DEC VOUCHER #: n

**MONTHLY COST CONTROL REPORT  
 SUMMARY OF FISCAL INFORMATION**

% of BUDGET COMPLETE: 0%

| EXPENDITURE CATEGORY  | A<br>COSTS CLAIMED THIS PERIOD (CAP #n-month) | B<br>PAID TO DATE (thru CAP #n-month) | C<br>TOTAL COSTS INCURRED TO DATE (A + B) | D<br>ESTIMATED COSTS TO COMPLETION (F-C) | E<br>ESTIMATED TOTAL CONTRACT PRICE (A+B+D) | F<br>APPROVED BUDGET (Date) | G<br>ESTIMATED UNDER/OVER (F-E) |
|---|---|---------------------------------------|---|--|---|-----------------------------|---------------------------------|
| 1. DIRECT SALARY COST   |   |                                       |   |  |   | \$15,726.34                 |                                 |
| 1a. INDIRECT COST - 1.538 %   |   |                                       |   |  |   | \$24,187.11                 |                                 |
| 2. SUBTOTAL: Billable Labor Cost (1+1a)                                 |   |                                       |   |  |   | \$39,913.45                 |                                 |
| 2a. OVER-TIME SALARY  |   |                                       |   |  |   | \$0.00                      |                                 |
| <b>3. SUBTOTAL: Direct Salary, Indirect Cost, Over-time Cost (2+2a)</b> |   |                                       |   |  |   | <b>\$39,913.45</b>          |                                 |
| 4. TRAVEL & SUBSISTENCE   |   |                                       |   |  |   | \$3,087.50                  |                                 |
| 5. OTHER NON-SALARY COST  |   |                                       |   |  |   | \$4,356.00                  |                                 |
| <b>6. SUBTOTAL: Direct Non-Salary Cost (4+5)</b>                        |   |                                       |   |  |   | <b>\$7,443.50</b>           |                                 |
| 7. SUBCONTRACTORS<br>Management Fee included above                      |   |                                       |   |  |   | \$23,278.30<br>\$598.70     |                                 |
| <b>8. TOTAL CONTRACT COST (3+6+7)</b>                                   |   |                                       |   |  |   | <b>\$70,635.25</b>          |                                 |
| 9. FIXED FEE - 10.3 %   |   |                                       |   |  |   | \$4,111.09                  |                                 |
| <b>10. TOTAL CONTRACT PRICE (8+9)</b>                                   |   |                                       |   |  |   | <b>\$74,746.34</b>          |                                 |

PROJECT MANAGER ENGINEER

DATE

**SUBCONTRACTOR COST CONTROL REPORT**  
**SUMMARY OF FISCAL INFORMATION**  
**Cost-Plus-Fixed-Fee and Unit Price Subcontractors**

| SUBCONTRACT NAME  | A                                   |              | B                           |                 | C                                   |                 | D                   |                  | E                               |  |  | F              |  | G              |  | H              |  | I |
|---|-------------------------------------|--------------|-----------------------------|-----------------|-------------------------------------|-----------------|---------------------|------------------|---------------------------------|--|--|----------------|--|----------------|--|----------------|--|---|
|   | SUBCONTRACTOR COSTS                 |              | SUBCONTRACTOR COSTS         |                 | SUBCONTRACTOR COSTS                 |                 | SUBCONTRACTOR COSTS |                  | MANAGEMENT FEE                  |  |  | MANAGEMENT FEE |  | MANAGEMENT FEE |  | MANAGEMENT FEE |  |   |
|   | CURRENT COSTS INCLUDES RESUBMITTALS | PAID TO DATE | TOTAL COSTS TO DATE (A + B) | APPROVED BUDGET | MNGT. FEE BUDGET (Subs >= \$10,000) | FEE THIS PERIOD | PENDING FEES        | FEE PAID TO DATE | TOTAL COSTS TO DATE (C + F + H) |  |  |                |  |                |  |                |  |   |
| <b>Cost-Plus-Fixed-Fee Subcontractors</b>               |                                     |              |                             |                 |                                     |                 |                     |                  |                                 |  |  |                |  |                |  |                |  |   |
| 1. Edward O. Watts, P.E., P.C.<br>Professional Services |                                     |              | \$40,631.19                 | \$40,631.19     |                                     |                 |                     |                  |                                 |  |  |                |  |                |  |                |  |   |
| <b>Subtotal - CPFF Subs:</b>                            |                                     |              | \$40,631.19                 | \$40,631.19     |                                     |                 |                     |                  |                                 |  |  |                |  |                |  |                |  |   |
| <b>Unit Price Subcontractors</b>                        |                                     |              |                             |                 |                                     |                 |                     |                  |                                 |  |  |                |  |                |  |                |  |   |
| 1. Engineering & Environment<br>Analytical Services     |                                     |              | \$7,522.00                  | \$44,350.00     |                                     |                 |                     |                  | \$2,217.50                      |  |  |                |  |                |  |                |  |   |
| 2. A/E Blueprinting Inc.<br>Repro. Services             |                                     |              | \$1,123.20                  |                 |                                     |                 |                     |                  | \$0.00                          |  |  |                |  |                |  |                |  |   |
| 3. SJB Services, Inc.<br>Drilling Services              |                                     |              | \$30,617.50                 |                 |                                     |                 |                     |                  | \$1,530.88                      |  |  |                |  |                |  |                |  |   |
| 4. Nancy Potak<br>Data Validation                       |                                     |              | \$8,577.50                  |                 |                                     |                 |                     |                  | \$0.00                          |  |  |                |  |                |  |                |  |   |
| 5. Nytest Analytical<br>Analytical                      |                                     |              |                             |                 |                                     |                 |                     |                  | \$0.00                          |  |  |                |  |                |  |                |  |   |
| 6. Wendel Engineers<br>Survey                           |                                     |              | \$4,000.00                  |                 |                                     |                 |                     |                  | \$0.00                          |  |  |                |  |                |  |                |  |   |
| 7. Mitkem Corp.<br>Analytical                           |                                     |              | \$5,655.00                  |                 |                                     |                 |                     |                  | \$0.00                          |  |  |                |  |                |  |                |  |   |
| <b>Subtotal - Unit Price Subs:</b>                      |                                     |              | \$101,845.20                | \$142,476.39    |                                     |                 |                     |                  | \$3,748.38                      |  |  |                |  |                |  |                |  |   |
| <b>TOTAL</b>  |                                     |              | \$142,476.39                | \$146,224.77    |                                     |                 |                     |                  | \$3,748.38                      |  |  |                |  |                |  |                |  |   |
| <b>TOTAL Budget</b>                                     |                                     |              |                             | \$146,224.77    |                                     |                 |                     |                  |                                 |  |  |                |  |                |  |                |  |   |

PROJECT MANAGER ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

- NOTES: (1) Costs listed in Columns A, B, C & D do not include any management fee costs.  
 (2) Management fee is applicable to only properly procured, satisfactorily completed, unit price subcontracts over \$10,000.  
 (3) 'TOTAL' line, Column I should equal Line 7 (subcontracts), Column C of Summary of Fiscal Information Cost Control Report.

**APPENDIX A  
SCHEDULE 2.11 BACKUP**

MITKEM  
CORPORATION

COPY

**INVOICE**

**Client ID:** MALC-MAHWAH,NJ  
**Purchase ID:** BB&S Treated Lumber  
**Client Project ID:** NA

**Invoice Number:** 141688  
**Invoice Date:** 10/30/97

**Bill To:**

**Malcolm Pirnie, Inc.**  
Attn: ACCOUNTS PAYABLE  
One International Boulevard  
Mahwah, NJ 07495

| <u>Quantity</u> | <u>Analysis - Description</u> | <u>Unit Price</u> | <u>Item Total</u> |
|-----------------|-------------------------------|-------------------|-------------------|
| 19.00           | 6010 - ICP Analysis           | \$115.00          | \$2,185.00        |

**Salesperson:** Paul A Senecal  
**Payment Terms:** Net 30 Days  
**Date Samples Rec'd:** 10/24/97 - D1688

**Subtotal:** \$2,185.00  
**Discount:** \$0.00  
**Total:** \$2,185.00

**\*\*\* THANK YOU FOR YOUR BUSINESS! \*\* PLEASE REMIT TO RHODE ISLAND ADDRESS \*\*\***

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755 • (401) 732-3400 • Fax (401) 732-3499  
1232 East Broadway, Suite 210 • Tempe, Arizona 85282 • (602) 303-9535 • Fax (602) 921-2883  
email: mitkem19@mail.idt.net



**Contract  
Drilling  
and  
Testing**

1951-1 Hamburg Turnpike  
Buffalo, NY 14218

Phone: (716) 821-5911  
Fax: (716) 821-0163

**MAKE CHECKS PAYABLE TO: SJB SERVICES, INC.**

**\*\* MAIL TO ABOVE ADDRESS \*\***

\*\*\*\*\* INVOICE \*\*\*\*\*

PAGE: 1

MALCOLM PIRNIE, INC.  
ONE INTERNATIONAL BLVD  
5TH FLOOR  
MOHWAK, NJ 07495  
CONTACT: ACCOUNTS PAYABLE  
(201) 529-4700

INVOICE NUMBER: 0005399-IN

INVOICE DATE: 10/31/97

CUSTOMER NO: 05-MPI/NJ  
CUSTOMER P.O.:

TERMS:  
NET THIRTY DAYS

| SALES CD | DESCRIPTION   | QUANTITY     | PRICE   | AMOUNT   |
|----------|---|--------------|---------|----------|
|          | 90105.318 BE&S SITE REMEDIAL INVESTIGATION/<br>FEASIBILITY STUDY, SPEONKE, LONG ISLAND, NY<br>* OCTOBER 22, 23, 28, 29, 30, 31, NOVEMBER 3 & 4 *<br>PROJECT CONTACT: CHUCK TRIONE |              |         |          |
| MD       | CLEARING AND GRUBBING<br>MOB/DEMOB. OF DOZER<br>10/23/97  | LS 1.000     | 600.000 | 600.00   |
| MOB      | DOZER OPERATION ON SITE   | DAY 1.000    | 400.000 | 400.00   |
| MOB      | CREW TO RUN DOZER & COMPLETE<br>CLEARING (2 MEN & CHAIN SAWS  | DAY 2.000    | 800.000 | 1,600.00 |
| MD       | MOB/DEMOB WOOD CHIPPER  | LS 1.000     | 300.000 | 300.00   |
| MOB      | DAILY RATE FOR WOOD CHIPPER<br>10/22 & 23/97  | DAY 2.000    | 400.000 | 800.00   |
| MD       | MOBILIZATION/DEMOBILIZATION<br>DRILL RIG AND CREW   | LS 1.000     | 500.000 | 500.00   |
| DT       | DECON TIME  | HOUR 6.250   | 130.000 | 812.50   |
| ST       | STANDBY, WATER & DRUM HANDLING  | HOUR .750    | 130.000 | 97.50    |
| DA4      | HYDROPUNCH BORINGS<br>DRILLING WITH 4 1/4" AUGERS   | FOOT 380.000 | 10.000  | 3,800.00 |

FINANCE CHARGE = 1.5% AFTER 30 DAYS.  
COLLECTION FEES ADDED AFTER 75 DAYS.



CONTINUED  
**"QUALITY & SERVICE THE WAY IT USED TO BE"**





**Contract  
Drilling  
and  
Testing**

1951-1 Hamburg Turnpike  
Buffalo, NY 14218

Phone: (716) 821-5911  
Fax: (716) 821-0163

MAKE CHECKS PAYABLE TO: SJB SERVICES, INC.

\*\* MAIL TO ABOVE ADDRESS \*\*

\*\*\*\*\* INVOICE \*\*\*\*\*

PAGE: 2

INVOICE NUMBER: 0005399-IN

INVOICE DATE: 10/31/97

MALCOLM PIRNIE, INC.  
ONE INTERNATIONAL BLVD  
5TH FLOOR  
MOHWAK, NJ 07495  
CONTACT: ACCOUNTS PAYABLE  
(201) 529-4700

CUSTOMER NO: 05-MPI/NJ  
CUSTOMER P.O.:

TERMS:  
NET THIRTY DAYS

| SALES CD | DESCRIPTION                           | QUANTITY    | PRICE   | AMOUNT   |
|----------|---------------------------------------|-------------|---------|----------|
|          | 90105.318 BB&S SITE REMED (CONTINUED) |             |         |          |
| SS       | 2" SPLIT SPOON SAMPLES                | EACH 34.000 | 6.000   | 204.00   |
| SS       | HYDROPUNCH SAMPLES OBTAINED           | EACH 15.000 | 130.000 | 1,950.00 |

FINANCE CHARGE = 1.5% AFTER 30 DAYS.  
COLLECTION FEES ADDED AFTER 75 DAYS.

INVOICE TOTAL: 11,064.00



**"QUALITY & SERVICE THE WAY IT USED TO BE"**





**Contract  
Drilling  
and  
Testing**

1951-1 Hamburg Turnpike  
Buffalo, NY 14218

Phone: (716) 821-5911  
Fax: (716) 821-0163

**MAKE CHECKS PAYABLE TO: SJB SERVICES, INC.**

**\*\* MAIL TO ABOVE ADDRESS \*\***

\*\*\*\*\* INVOICE \*\*\*\*\*

PAGE: 1

INVOICE NUMBER: 0005461-IN

INVOICE DATE: 10/31/97

CUSTOMER NO: 05-MPI/NJ  
CUSTOMER P.O.:

MALCOLM PIRNIE, INC.  
ONE INTERNATIONAL BLVD  
5TH FLOOR  
MOHWAK, NJ 07495  
CONTACT: ACCOUNTS PAYABLE  
(201) 529-4700

TERMS:  
NET THIRTY DAYS

| SALES CD | DESCRIPTION  | QUANTITY   | PRICE   | AMOUNT |
|----------|--|------------|---------|--------|
|          | 90105.318 BB&S SITE REMEDIAL INVESTIGATION<br>SPEONKE, LONG ISLAND, NY<br>** NOVEMBER 4 AND 5, 1997 ** |            |         |        |
| ST       | STANDBY TIME<br>4 HRS. ON 11/4/97 AND<br>3 HRS. ON 11/5/97   | HOUR 7.000 | 130.000 | 910.00 |

FINANCE CHARGE = 1.5% AFTER 30 DAYS.  
COLLECTION FEES ADDED AFTER 75 DAYS.

INVOICE TOTAL: 910.00



**"QUALITY & SERVICE THE WAY IT USED TO BE"**



Aug-21-97 10:13A Wendel Lockport

P. 01

# WENDEL

7405 CANAL ROAD  
P.O. BOX 501  
LOCKPORT, NEW YORK 14095  
716/433-5993 or 625-8228  
FAX 716/433-7604

DATE 8/21/97

## CONFIDENTIALITY NOTICE

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TO: CHUCK TRIONE

FROM: CHIC BIGELOW

FAX NO: 1-201-529-2150

TOTAL NO. OF PAGES TO FOLLOW THIS TRANSMITTAL: 3

ADDITIONAL INFORMATION:

NOTE: If you do not receive all the pages or if the quality is not suitable, please call the above telephone number as soon as possible.

Thank you.

ENGINEERING

ARCHITECTURE

LANDSCAPE ARCHITECTURE

SURVEYING

PLANNING



# WENDEL

7405 CANAL ROAD  
PO. BOX 501  
LOCKPORT, NEW YORK 14095  
TEL 433-5993 or 625-8228  
FAX 433-7004  
e-mail: wendel@wendel-design.com

August 21, 1997

Mr Charles Trione  
1 Interim Boulevard  
Mahwah, New Jersey 07495

**SUBJECT: BB&S Remedial Site Speonke Long Island**

Dear Mr. Trione:

We are pleased to submit this proposal for professional surveying services associated with the project referenced above.

If this proposal is acceptable to you, this agreement is by and between WENDEL and Malcolm Pirnie, Inc. Where the term "CLIENT" is used, it shall be defined as meaning "Malcolm Pirnie" Where the term "WENDEL" is used, it shall be defined as meaning Wendel Survey. WENDEL shall provide professional services on the project referenced above, the extent of which may be generally described as well and soil sample locations. The scope of services and basis of contract shall be as follows:

Location and Elevations to previously established datums on site of the following:

- 9 Hydropunches (Riser, Casing & Ground)
- 3 Monitoring Wells (Riser, Casing & Ground)
- Approximately 50 soil sample locations (Ground)
- Coordinates and elevations will be provided in spreadsheet and Acad version 12 Formats.

**FEES AND TERMS:**

Services described above shall be provided for an estimated fee of \$4,500.00 including reimbursable expenses, in accordance with the terms and conditions of this Agreement which includes General Conditions for Surveying Services.

Aug-21-97 10:13A Wendel Lockport

Malcolm Pirnie  
BB&S Site  
August 21, 1997

**REIMBURSABLE EXPENSES:**

Reimbursable expenses are included in the compensation for Basic and Additional services and include actual expenditures incurred in the interest of the project as listed in the following paragraphs:

- A. Expense of copies of drawings, and reports; xerography and photographic reproduction of drawings and other documents furnished or prepared in connection with the work of this contract.
- B. Private and company-owned automobile travel at \$ 0.31 per mile.
- C. Cost of postage and shipping expenses via first class mail.
- D. Long distance telephone.
- E. Electronic data collection and processing.
- F. Computer Aided Drafting (CAD).

**ADDITIONAL SERVICES:**

Should WENDEL be required to perform additional services beyond those outlined in sections above, WENDEL shall be compensated on an hourly basis at the rates attached. Hourly rates are current for six months from the date of the Agreement for Professional Services, but may be increased subsequently without written notice.

This proposal shall be considered revoked if acceptance is not received within sixty (60) days of the date hereof.

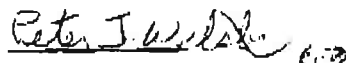
Wendel would be pleased to provide additional professional design services related to this project. Should the scope of services extend beyond those referenced above WENDEL and Malcolm Pirnie would enter into a separate agreement for additional design services.

We would be pleased to answer questions you may have or to clarify the various points above. If this proposal is acceptable to you, please indicate your acceptance by signing both originals and returning one fully executed original to our office.

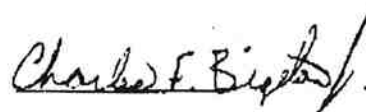
Thank you for considering Wendel for your surveying needs.

Sincerely,

WENDEL



Peter J. Welsby, P.L.S.  
Principal-in-Charge



Charles F. Bigelow, Jr., P.L.S.  
Project Manager

**ACCEPTANCE/AUTHORIZATION:**

Accepted this \_\_\_\_\_ day of \_\_\_\_\_, 1997

By: \_\_\_\_\_  
CLIENT

Aug-21-97 10:14A Wendel Lockport

GENERAL CONDITIONS FOR SURVEY SERVICES

WENDEL will perform professional services in a timely manner but it is agreed between the parties to this Agreement that WENDEL cannot be responsible for delays occasioned by factors beyond its control, nor by factors which could not reasonably have been foreseen at the time this Agreement was prepared and executed.

WENDEL will prepare the Drawings and Maps in accordance with generally accepted survey practices and makes no other warranty, either expressed or implied, as part of this Agreement.

The CLIENT and WENDEL have discussed their risks, rewards and benefits of the PROJECT. WENDEL'S total fee for services and have allocated the risks such that the CLIENT agrees that to the fullest extent permitted by law, WENDEL'S total liability to the CLIENT for any and all injuries, claims, losses, expenses, damages, or claim expenses arising out of this Agreement from any cause or causes including, but not limited to, WENDEL'S negligence, errors, omissions, strict liability, breach of contract or breach of warranty shall not exceed the total compensation received by WENDEL under this Agreement or \$500,000.00 whichever is less.

During the performance of services within this Agreement, the scope of WENDEL'S services and compensation thereon may be adjusted by mutually agreed Change Orders to this Agreement.

WENDEL shall not disclose or permit the disclosure of any confidential information except to its employees and other consultants who need such confidential information in order to properly prepare the construction documents.

No information relative to the PROJECT shall be released by WENDEL for publication, advertising or for any other purpose without prior approval of the CLIENT.

Unless otherwise stipulated, all disputes, claims and questions monetary or otherwise, regarding rights and obligations of the CLIENT and WENDEL under the terms of this Agreement shall be exclusively redressed in the appropriate court with jurisdiction.

All original Drawings, Specifications masters, Report Masters, Work Sheets and Field Sheets are and remain the property of WENDEL as instruments of service. It is understood and agreed that the calculations, drawings, and specifications prepared pursuant to this Agreement, whether in hard copy or machine-readable form, are instruments of professional service intended for one-time use in the construction of this project. They are and shall remain the property of WENDEL. The CLIENT may retain copies, including copies stored on magnetic tape or disk, for information and reference in connection with the occupancy and use of the project. The CLIENT agrees to use the documents received solely in connection with the PROJECT for which the design was intended. The CLIENT will indemnify and save harmless WENDEL for any liability which may arise out of reuse of the documents on another PROJECT.

Because of the possibility that information and data delivered in machine-readable form may be altered, whether inadvertently or otherwise, WENDEL reserves the right to retain the original tapes/disks and to remove from copies provided to the CLIENT all identification reflecting the involvement of WENDEL in their preparation. WENDEL also reserves the right to retain hard copy originals of all project documentation delivered to the CLIENT in machine-readable form, which shall be referred to as originals and shall govern in the event of any inconsistency between the two.

The CLIENT understands that the automated conversion of information and data from the system and format used by WENDEL to an alternate system or format cannot be accomplished without the introduction of inaccuracies, anomalies, and errors. In the event project documentation provided to the Client in machine-readable form is so converted, the CLIENT agrees to assume all risks associated therewith and, to the fullest extent permitted by law, to hold harmless and indemnify WENDEL from and against all claims, liabilities, losses, damages, and costs, including but not limited to attorney's fees arising therefrom or in connection therewith.

Unless otherwise specified within the Agreement, this Agreement shall be governed by New York State Law.

Neither party shall hold the other responsible for damages or delays in performance caused by acts of God, strikes, lockouts, accidents or other events beyond the control of the other or the other's employees and agents.

Under the terms of this Agreement, the CLIENT understands that he has specifically excluded construction quality control as a responsibility of WENDEL. The CLIENT acknowledges that WENDEL will therefore not be asked, and will be unable to provide inspection or observation of the PROJECT during construction to assure compliance with its design and specifications. Further, the CLIENT acknowledges that because of its decision not to retain the services of WENDEL that firm will have no right to, nor will it be able to exercise any control over representatives of the CLIENT, or any Contractors, with respect to any aspect of construction, including means, methods, techniques of construction, or final product, or the safety of any person. WENDEL does not guarantee the performance of the Contractor.

Unless otherwise specified herein, WENDEL will not be responsible for the review of Contractor's submittals, shop drawings, samples or equipment to be installed. The CLIENT shall be fully responsible for conformance with the design concept and safety of the PROJECT. Any substitutions of materials or equipment should bear the stamp and seal of a duly licensed professional pursuant to the New York State Education Law, regulations and commonly accepted standards of practice.

Progress payments shall be made in proportion to services performed and shall be due and payable within 60 days of submittal, without retaining. Overdue invoices shall bear an interest rate of 1% per month calculated from the 31st day after submittal.

It is understood and agreed that this Agreement does not contemplate handling of, or design including use of, asbestos, any hazardous waste material or pollutants. Therefore, owner agrees to hold harmless, defend and indemnify WENDEL for all claims, lawsuits, expenses or damages arising from or related to the handling use, treatment, purchase, sale, storage, dispersal, discharge, escape, release, saturation or disposal of asbestos, asbestos products, any hazardous waste materials, smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids, gases or other pollutants.