

**Exhibit A.1**  
**Facility Cost and Burden Estimates for NPDES Permit Application Activities**

**Exhibit A.1a**  
**Start-up Activities**

| Activity              | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|-----------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                       |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                       | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                       | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
|                       | Read and Understand Rule | 6      | 6      | 6     | 18                            | 12               | 12           | 0                  | 0         | 0            | 0                     | 0        | 1                                               | 25         | \$1,883       | \$0       | \$0           |                     | 450                |
| Mobilization/Planning | 6                        | 6      | 6      | 18    | 4                             | 8                | 0            | 0                  | 0         | 0            | 0                     | 1        | 13                                              | \$825      | \$0           | \$0       |               | 234                 | \$14,852           |
| Training              | 6                        | 6      | 6      | 18    | 2                             | 2                | 0            | 0                  | 0         | 0            | 0                     | 1        | 5                                               | \$336      | \$0           | \$0       |               | 90                  | \$6,050            |
| Other Direct Costs    | 6                        | 6      | 6      | 18    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$55      |               | -                   | \$990              |
| Totals                | 6                        | 6      | 6      | 18    |                               |                  |              |                    |           |              |                       |          | 43                                              | \$3,044    | \$0           | \$55      | \$3,099       | 774                 | \$55,787           |

**Exhibit A.1b**  
**Permit Application Activities**

| Activity                                       | Facilities (Respondents)                    |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|------------------------------------------------|---------------------------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                |                                             |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                | Year 1                                      | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                | A                                           |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
|                                                | Detailed Source Water Body Characterization | 6      | 6      | 6     | 18                            | 2                | 16           | 40                 | 0         | 0            | 0                     | 0        | 0                                               | 58         | \$2,610       | \$0       | \$0           |                     | 1,044              |
| Description of CWIS Configuration and Location | 6                                           | 6      | 6      | 18    | 2                             | 5                | 8            | 0                  | 0         | 0            | 0                     | 0        | 15                                              | \$779      | \$0           | \$0       |               | 270                 | \$14,013           |
| Facility Water Balance Diagram                 | 6                                           | 6      | 6      | 18    | 1                             | 1                | 1            | 0                  | 0         | 0            | 0                     | 0        | 3                                               | \$197      | \$0           | \$0       |               | 54                  | \$3,537            |
| Operational Characteristics Narrative          | 6                                           | 6      | 6      | 18    | 16                            | 40               | 0            | 0                  | 0         | 0            | 0                     | 0        | 56                                              | \$3,553    | \$0           | \$0       |               | 1,008               | \$63,950           |
| Submit Materials for Review by State           | 6                                           | 6      | 6      | 18    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 6        | 6                                               | \$160      | \$0           | \$0       |               | 108                 | \$2,884            |
| Recordkeeping                                  | 6                                           | 6      | 6      | 18    | 2                             | 2                | 2            | 0                  | 0         | 0            | 0                     | 2        | 8                                               | \$446      | \$0           | \$0       |               | 144                 | \$8,035            |
| Other Direct Costs                             | 6                                           | 6      | 6      | 18    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$575     |               | -                   | \$10,350           |
| Totals                                         | 6                                           | 6      | 6      | 18    |                               |                  |              |                    |           |              |                       |          | 146                                             | \$7,744    | \$0           | \$575     | \$8,319       | 2,628               | \$149,749          |

Water balance diagram is assumed to be taken from the facility design report. The hours reported here are for incorporation of the diagram(s) in the permit.

**Exhibit A.1c**  
**Source Waterbody Flow Information**

| Activity                               |  | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|----------------------------------------|--|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                        |  |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                        |  | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                        |  | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Gather Information Characterizing Flow |  | 6                        | 6      | 6      | 18    | 0                             | 32               | 0            | 0                  | 0         | 0            | 0                     | 0        | 32                                              | \$1,437    | \$0           | \$0       | 576           | \$25,862            |                    |
| Perform Engineering Calculations       |  | 6                        | 6      | 6      | 18    | 8                             | 32               | 0            | 0                  | 0         | 0            | 0                     | 0        | 40                                              | \$2,315    | \$0           | \$0       | 720           | \$41,674            |                    |
| Submit Data and Analysis for Review    |  | 6                        | 6      | 6      | 18    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 16       | 16                                              | \$427      | \$0           | \$0       | 288           | \$7,690             |                    |
| Recordkeeping                          |  | 6                        | 6      | 6      | 18    | 0                             | 8                | 0            | 0                  | 0         | 0            | 0                     | 8        | 16                                              | \$573      | \$0           | \$0       | 288           | \$10,310            |                    |
| Other Direct Costs                     |  | 6                        | 6      | 6      | 18    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$115     | -             | \$2,070             |                    |
| Totals                                 |  | 6                        | 6      | 6      | 18    |                               |                  |              |                    |           |              |                       |          | 104                                             | \$4,752    | \$0           | \$115     | 1,872         | \$87,606            |                    |

**Exhibit A.1d**  
**Source Water Baseline Biological Characterization Data**

| Source Water Baseline Biological Characterization Data |                          |        |        |       |                               |                  |              |                    |           |              |                       |          |                                                 |            |               |           |               |                     |                    |
|--------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
| Activity                                               | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|                                                        |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                        | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                        | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |

|                                              |   |   |   |    |    |    |    |   |   |   |   |   |     |          |     |       |          |           |           |
|----------------------------------------------|---|---|---|----|----|----|----|---|---|---|---|---|-----|----------|-----|-------|----------|-----------|-----------|
| Identify Available Data and Document Efforts | 6 | 6 | 6 | 18 | 40 | 80 | 0  | 0 | 0 | 0 | 0 | 8 | 128 | \$8,198  | \$0 | \$0   | 2,304    | \$147,557 |           |
| Compile and Analyze Existing Data            | 6 | 6 | 6 | 18 | 32 | 60 | 20 | 0 | 0 | 0 | 0 | 4 | 116 | \$7,150  | \$0 | \$0   | 2,088    | \$128,707 |           |
| Submit Data for Review by State              | 6 | 6 | 6 | 18 | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 8 | 8   | \$214    | \$0 | \$0   | 144      | \$3,845   |           |
| Recordkeeping                                | 6 | 6 | 6 | 18 | 2  | 4  | 1  | 0 | 0 | 0 | 0 | 6 | 13  | \$601    | \$0 | \$0   | 234      | \$10,822  |           |
| Other Direct Costs                           | 6 | 6 | 6 | 18 | 0  | 0  | 0  | 0 | 0 | 0 | 0 | 0 | 0   | \$0      | \$0 | \$860 | -        | \$15,480  |           |
| Totals                                       | 6 | 6 | 6 | 18 |    |    |    |   |   |   |   |   | 265 | \$16,163 | \$0 | \$860 | \$17,023 | 4,770     | \$306,410 |

**Exhibit A.1e**  
**CWIS Flow Reduction Requirements (Track 1)**

| Activity                                         | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|--------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                  |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                  | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                  | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Develop Narrative                                | 5                        | 4      | 5      | 14    | 8                             | 16               | 0            | 0                  | 0         | 0            | 0                     | 0        | 24                                              | \$1,597    | \$0           | \$0       | 336           | \$22,355            |                    |
| Perform Engineering Calculations                 | 5                        | 4      | 5      | 14    | 4                             | 12               | 0            | 0                  | 0         | 0            | 0                     | 0        | 16                                              | \$978      | \$0           | \$0       | 224           | \$13,692            |                    |
| Document Minimization of Blow Down and Flows Not | 5                        | 4      | 5      | 14    | 0                             | 40               | 0            | 0                  | 0         | 0            | 0                     | 6        | 46                                              | \$1,956    | \$0           | \$0       | 644           | \$27,387            |                    |
| Submit Data and Analysis for Review              | 5                        | 4      | 5      | 14    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 8        | 8                                               | \$214      | \$0           | \$0       | 112           | \$2,990             |                    |
| Recordkeeping                                    | 5                        | 4      | 5      | 14    | 2                             | 4                | 0            | 0                  | 0         | 0            | 0                     | 8        | 14                                              | \$613      | \$0           | \$0       | 196           | \$8,579             |                    |
| Other Direct Costs                               | 5                        | 4      | 5      | 14    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$460     | -             | \$6,440             |                    |
| Totals                                           | 5                        | 4      | 5      | 14    |                               |                  |              |                    |           |              |                       |          | 108                                             | \$5,357    | \$0           | \$460     | 1,512         | \$81,444            |                    |

**Exhibit A.1f**  
**CWIS Velocity Requirements (Track 1)**

| Activity                            | Facilities (Respondents) |        |        |       | Facility Manager      | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |         |     |         |         | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------|--------------------------|--------|--------|-------|-----------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|---------|-----|---------|---------|---------------------|--------------------|
|                                     |                          |        |        |       |                       |                  |              |                    |           |              |                       |          | Assumed Loaded Hourly Rate \$                   |         |     |         |         |                     |                    |
|                                     | Year 1                   | Year 2 | Year 3 | Total | \$110                 | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |         |     |         |         |                     |                    |
|                                     | A                        |        |        |       | Level of Effort (hrs) |                  |              |                    |           |              |                       |          | B                                               | C       | D   | E       | C+D+E   | A*B                 | A*(C+D+E)          |
| Develop Narrative                   | 5                        | 4      | 5      | 14    | 16                    | 32               | 0            | 0                  | 0         | 0            | 0                     | 0        | 48                                              | \$3,194 | \$0 | \$0     |         | 672                 | \$44,710           |
| Perform Engineering Calculations    | 5                        | 4      | 5      | 14    | 8                     | 32               | 0            | 0                  | 0         | 0            | 0                     | 0        | 40                                              | \$2,315 | \$0 | \$0     |         | 560                 | \$32,413           |
| Submit Data and Analysis for Review | 5                        | 4      | 5      | 14    | 0                     | 0                | 0            | 0                  | 0         | 0            | 0                     | 16       | 16                                              | \$427   | \$0 | \$0     |         | 224                 | \$5,981            |
| Revise Based on State review        | 5                        | 4      | 5      | 14    | 4                     | 16               | 0            | 0                  | 0         | 0            | 0                     | 0        | 20                                              | \$1,158 | \$0 | \$0     |         | 280                 | \$16,206           |
| Recordkeeping                       | 5                        | 4      | 5      | 14    | 2                     | 4                | 0            | 0                  | 0         | 0            | 0                     | 8        | 14                                              | \$613   | \$0 | \$0     |         | 196                 | \$8,579            |
| Other Direct Costs                  | 5                        | 4      | 5      | 14    | 0                     | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0     | \$0 | \$1,150 |         | -                   | \$16,100           |
| Totals                              | 5                        | 4      | 5      | 14    |                       |                  |              |                    |           |              |                       |          | 138                                             | \$7,706 | \$0 | \$1,150 | \$8,856 | 1,932               | \$123,990          |

**Exhibit A.1g**  
**Design and Construction Technology Plan (Track 1)**

| Activity                              |  | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|---------------------------------------|--|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                       |  |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                       |  | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                       |  | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Delineate Hydraulic Zone of Influence |  | 5                        | 4      | 5      | 14    | 2                             | 5                | 8            | 0                  | 0         | 0            | 0                     | 0        | 15                                              | \$779      | \$0           | \$0       |               | 210                 | \$10,899           |
| Develop Narrative Description         |  | 5                        | 4      | 5      | 14    | 16                            | 32               | 0            | 0                  | 0         | 0            | 0                     | 0        | 48                                              | \$3,194    | \$0           | \$0       |               | 672                 | \$44,710           |
| Perform Engineering Calculations      |  | 5                        | 4      | 5      | 14    | 6                             | 24               | 0            | 0                  | 0         | 0            | 0                     | 0        | 30                                              | \$1,736    | \$0           | \$0       |               | 420                 | \$24,310           |
| Submit Data and Analysis for Review   |  | 5                        | 4      | 5      | 14    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 6        | 6                                               | \$160      | \$0           | \$0       |               | 84                  | \$2,243            |
| Recordkeeping                         |  | 5                        | 4      | 5      | 14    | 1                             | 2                | 0            | 0                  | 0         | 0            | 0                     | 6        | 9                                               | \$360      | \$0           | \$0       |               | 126                 | \$5,037            |
| Other Direct Costs                    |  | 5                        | 4      | 5      | 14    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$55      |               | -                   | \$770              |
| Totals                                |  | 5                        | 4      | 5      | 14    |                               |                  |              |                    |           |              |                       |          | 108                                             | \$6,229    | \$0           | \$55      | \$6,284       | 1,512               | \$87,969           |

**Comprehensive Demonstration Study Plan (Track 2)**

| Activity                                                   | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|------------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                            |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                            | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                            | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Description of Historical Studies that will be Used        | 1                        | 2      | 1      | 4     | 20                            | 40               | 0            | 0                  | 0         | 0            | 0                     | 2        | 62                                              | \$4,045    | \$0           | \$0       |               | 248                 | \$16,182           |
| Description of Proposed and/or Implemented Technologies    | 1                        | 2      | 1      | 4     | 8                             | 20               | 0            | 0                  | 0         | 0            | 0                     | 0        | 28                                              | \$1,776    | \$0           | \$0       |               | 112                 | \$7,106            |
| Develop Baseline Biological Characterization Sampling Plan | 1                        | 2      | 1      | 4     | 40                            | 60               | 8            | 8                  | 0         | 0            | 0                     | 4        | 120                                             | \$8,602    | \$0           | \$0       |               | 480                 | \$34,410           |
| Submit Data and Plans for Review                           | 1                        | 2      | 1      | 4     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 12       | 12                                              | \$320      | \$0           | \$0       |               | 48                  | \$1,282            |
| Revise Based on State Review                               | 1                        | 2      | 1      | 4     | 8                             | 16               | 4            | 0                  | 0         | 0            | 0                     | 4        | 32                                              | \$1,871    | \$0           | \$0       |               | 128                 | \$7,483            |
| Recordkeeping                                              | 1                        | 2      | 1      | 4     | 2                             | 4                | 2            | 1                  | 0         | 0            | 0                     | 8        | 17                                              | \$831      | \$0           | \$0       |               | 68                  | \$3,323            |
| Other Direct Costs                                         | 1                        | 2      | 1      | 4     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$860     |               | -                   | \$3,440            |
| Totals                                                     | 1                        | 2      | 1      | 4     |                               |                  |              |                    |           |              |                       |          | 271                                             | \$17,446   | \$0           | \$860     | \$18,306      | 1,084               | \$73,225           |

**Exhibit A.1i**
**Source Water Baseline Biological Characterization Study (Track 2)**

| Activity                                              | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                       |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                       | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                       | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Implement Freshwater Sampling                         | 2                        | 2      | 2      | 4     | 6                             | 52               | 0            | 120                | 2080      | 67           | 2080                  | 34       | 4439                                            | \$269,446  | \$0           | 0         |               | 13,317              | \$808,339          |
| Other Direct Costs for Implement Freshwater Sampling  | 2                        | 2      | 2      | 4     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$6,000   |               | \$18,000            |                    |
| Implement Estuary Sampling                            | 0                        | 1      | 1      | 1     | 10                            | 101              | 0            | 160                | 4095      | 100          | 4095                  | 50       | 8611                                            | \$516,627  | \$0           | 0         |               | 5,741               | \$344,418          |
| Other Direct Costs for Implement Estuary Sampling     | 0                        | 1      | 1      | 1     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$14,900  |               | \$9,933             |                    |
| Biological Study Laboratory Analysis (Freshwater)     | 2                        | 2      | 2      | 4     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | 0             | \$89,600  | -             | \$268,800           |                    |
| Biological Study Laboratory Analysis (Estuary)        | 0                        | 1      | 1      | 1     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | 0             | \$174,800 | -             | \$116,533           |                    |
| Profile of Source Water Biota                         | 1                        | 2      | 1      | 4     | 32                            | 20               | 0            | 32                 | 60        | 0            | 20                    | 8        | 172                                             | \$14,042   | \$0           | \$0       |               | 688                 | \$56,168           |
| Identification of Critical Species                    | 1                        | 2      | 1      | 4     | 32                            | 20               | 0            | 20                 | 40        | 0            | 0                     | 3        | 115                                             | \$9,956    | \$0           | \$0       |               | 460                 | \$39,823           |
| Description of Additional Stresses                    | 1                        | 2      | 1      | 4     | 16                            | 10               | 0            | 16                 | 30        | 0            | 10                    | 4        | 86                                              | \$7,021    | \$0           | \$0       |               | 344                 | \$28,084           |
| Write Study based on Results and Submit for Review by | 1                        | 1      | 1      | 3     | 80                            | 160              | 0            | 16                 | 8         | 8            | 0                     | 8        | 280                                             | \$19,610   | \$0           | \$0       |               | 840                 | \$58,831           |
| Recordkeeping                                         | 1                        | 1      | 1      | 3     | 6                             | 12               | 0            | 6                  | 0         | 0            | 0                     | 24       | 48                                              | \$2,645    | \$0           | \$0       |               | 144                 | \$7,934            |
| Finalize study based on State review                  | 1                        | 1      | 1      | 3     | 16                            | 32               | 0            | 0                  | 0         | 0            | 0                     | 8        | 56                                              | \$3,407    | \$0           | \$0       |               | 168                 | \$10,222           |
| Freshwater Totals                                     | 4                        |        |        |       |                               |                  |              |                    |           |              |                       |          | 5,196                                           | \$326,127  | \$0           | \$95,600  | \$421,727     | 16,356              | \$1,265,182        |
| Marine Totals                                         | 1                        |        |        |       |                               |                  |              |                    |           |              |                       |          | 9,368                                           | \$573,308  | \$0           | \$189,700 | \$763,008     | 6,114               | \$501,903          |

**Exhibit A.1j**
**Evaluation of Potential CWIS Effects (Track 2)**

| Activity                                                     | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|--------------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                              |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                              | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                              | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Calculate Reduction in Impingement Mortality and Entrainment | 1                        | 1      | 1      | 3     | 80                            | 80               | 8            | 0                  | 0         | 0            | 0                     | 12       | 180                                             | \$13,031   | \$0           | \$0       | 540           | \$39,092            |                    |
| Perform Engineering Calculations for Efficacy Projections    | 1                        | 1      | 1      | 3     | 40                            | 32               | 0            | 0                  | 0         | 0            | 0                     | 4        | 76                                              | \$5,936    | \$0           | \$0       | 228           | \$17,807            |                    |
| Perform Impingement Pilot Study (Freshwater)                 | 1                        | 1      | 1      | 3     | 16                            | 25               | 0            | 80                 | 240       | 40           | 240                   | 20       | 661                                             | \$45,861   | \$0           | \$0       | 1,983         | \$137,584           |                    |
| Perform Entrainment Pilot Study (Freshwater)                 | 1                        | 1      | 1      | 3     | 16                            | 25               | 0            | 80                 | 180       | 40           | 250                   | 20       | 611                                             | \$42,173   | \$0           | \$0       | 1,833         | \$126,520           |                    |
| Pilot Study Entrainment Laboratory Analysis (Freshwater)     | 1                        | 1      | 1      | 3     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$6,900   | -             | \$20,700            |                    |
| Perform Impingement Pilot Study (Estuary)                    | 0                        | 0      | 0      | 0     | 16                            | 33               | 0            | 80                 | 312       | 52           | 312                   | 26       | 831                                             | \$55,867   | \$0           | \$0       | -             | \$0                 |                    |
| Perform Entrainment Pilot Study (Estuary)                    | 0                        | 0      | 0      | 0     | 16                            | 33               | 0            | 80                 | 234       | 52           | 325                   | 26       | 766                                             | \$51,073   | \$0           | \$0       | -             | \$0                 |                    |
| Pilot Study Entrainment Laboratory Analysis (Estuary)        | 0                        | 0      | 0      | 0     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$9,000   | -             | \$0                 |                    |
| Purchase & Installation of Pilot Study Technology            | 1                        | 1      | 1      | 3     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$303,000     | \$0       | -             | \$909,000           |                    |
| Operation & Maintenance of Pilot Technology                  | 1                        | 1      | 1      | 3     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$34,500  | -             | \$103,500           |                    |
| Submit Data and Analysis for Review                          | 1                        | 1      | 1      | 3     | 8                             | 10               | 0            | 8                  | 6         | 4            | 0                     | 16       | 52                                              | \$3,608    | \$0           | \$0       | 156           | \$10,823            |                    |
| Recordkeeping                                                | 1                        | 1      | 1      | 3     | 4                             | 8                | 0            | 4                  | 8         | 2            | 0                     | 20       | 46                                              | \$2,606    | \$0           | \$0       | 138           | \$7,818             |                    |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |       |           |           |          |           |         |             |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-----------|-----------|----------|-----------|---------|-------------|
| Other Direct Costs | 1 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$0   | \$0       | \$0       | \$1,100  | -         | \$3,300 |             |
| Freshwater Totals  | 1 | 1 | 1 | 3 |   |   |   |   |   |   |   |   |   | 1626  | \$113,215 | \$303,000 | \$42,500 | \$458,715 | 4,878   | \$1,376,144 |
| Marine Totals      | 0 | 0 | 0 | 0 |   |   |   |   |   |   |   |   |   | 1,950 | \$132,120 | \$303,000 | \$44,600 | \$479,720 | -       | \$0         |

**Exhibit A.1k**  
**Verification Monitoring Plan (Track 2)**

| Activity                             | Facilities (Respondents) |          |          |          | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |               |              |                | Total Burden (hrs.) | Total Initial Cost |
|--------------------------------------|--------------------------|----------|----------|----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|---------------|--------------|----------------|---------------------|--------------------|
|                                      |                          |          |          |          | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | Capital Costs | O&M Costs    | Total Costs**  | A*B                 | A*(C+D+E)          |
|                                      | Year 1                   | Year 2   | Year 3   | Total    | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |               |              |                |                     |                    |
|                                      | A                        |          |          |          | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C              | D             | E            | C+D+E          | A*B                 | A*(C+D+E)          |
| Develop Verification Monitoring Plan | 1                        | 2        | 1        | 4        | 40                            | 60               | 8            | 0                  | 0         | 0            | 0                     | 4        | 112                                             | \$7,527        | \$0           | \$0          |                | 448                 | \$30,109           |
| Submit Data and Analysis for Review  | 1                        | 2        | 1        | 4        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 2        | 2                                               | \$53           | \$0           | \$0          |                | 8                   | \$214              |
| Revise Based on State Review         | 1                        | 2        | 1        | 4        | 2                             | 4                | 1            | 0                  | 0         | 0            | 0                     | 1        | 8                                               | \$468          | \$0           | \$0          |                | 32                  | \$1,871            |
| Recordkeeping                        | 1                        | 2        | 1        | 4        | 1                             | 1                | 1            | 1                  | 0         | 0            | 0                     | 2        | 6                                               | \$384          | \$0           | \$0          |                | 24                  | \$1,537            |
| Other Direct Costs                   | 1                        | 2        | 1        | 4        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0            | \$0           | \$460        |                | -                   | \$1,840            |
| <b>Totals</b>                        | <b>1</b>                 | <b>2</b> | <b>1</b> | <b>4</b> |                               |                  |              |                    |           |              |                       |          | <b>128</b>                                      | <b>\$8,433</b> | <b>\$0</b>    | <b>\$460</b> | <b>\$8,893</b> | <b>512</b>          | <b>\$35,570</b>    |

**Exhibit A.1l**  
**Remote Monitoring**

| Activity                                              | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                       |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** | A*B                 | A*(C+D+E)          |
|                                                       | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                       | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Purchase and Installation of Remote Monitoring Device | 5                        | 4      | 5      | 14    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$62,000      | \$0       |               | -                   | \$868,000          |
| Other Direct Costs                                    | 5                        | 4      | 5      | 14    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$1,100   |               | -                   | \$15,400           |
|                                                       |                          |        |        | 14    |                               |                  |              |                    |           |              |                       |          | -                                               | \$0        | \$62,000      | \$1,100   | \$63,100      | -                   | \$883,400          |

**Total Burden and Costs for All NPDES Application Activities**

|               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                     |                    |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------|--------------------|
|               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Total Burden (hrs.) | Total Initial Cost |
| <b>Totals</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>43,944</b>       | <b>\$5,028,380</b> |

\* The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

**Exhibit A.2**  
**Facility Cost and Burden Estimates for Annual Activities**

**Exhibit A.2a**  
**Freshwater Verification Study (Track 2)**

| Activity                                   | Facilities (Respondents) |        |        |          | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |                |                | Total for All Facilities in the ICR Approval Period |                 |
|--------------------------------------------|--------------------------|--------|--------|----------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|----------------|----------------|-----------------------------------------------------|-----------------|
|                                            |                          |        |        |          | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | ODCs lump sum* | Total Costs    | Burden (hrs.)                                       | Annual Cost     |
|                                            | Year 1                   | Year 2 | Year 3 | Total    | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |                |                |                                                     |                 |
|                                            | A                        |        |        |          | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C              | D              | C+D            | A*B                                                 | A*(C+D)         |
| Perform Statistical Analysis               | 4                        | 1      | 2      | 7        | 20                            | 20               | 10                 | 10        | 20           | 0                     | 1        | 81                                              | \$6,967        |                |                | 567                                                 | \$48,767        |
| Submit Monitoring Results & Study Analysis | 4                        | 1      | 2      | 7        | 0                             | 0                | 0                  | 0         | 0            | 0                     | 4        | 4                                               | \$107          |                |                | 28                                                  | \$748           |
| Record Keeping                             | 4                        | 1      | 2      | 7        | 1                             | 2                | 0                  | 0         | 0            | 0                     | 4        | 7                                               | \$306          |                |                | 49                                                  | \$2,145         |
| <b>Totals</b>                              |                          |        |        | <b>7</b> | <b>21</b>                     | <b>22</b>        | <b>10</b>          | <b>10</b> | <b>20</b>    | <b>0</b>              | <b>9</b> | <b>92</b>                                       | <b>\$7,380</b> | <b>\$575</b>   | <b>\$7,955</b> | <b>644</b>                                          | <b>\$55,684</b> |

**Exhibit A.2b**  
**Estuary Verification Study (Track 2)**

| Activity                                   | Facilities (Respondents) |        |        |          | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |                |                 | Total for All Facilities in the ICR Approval Period |                 |
|--------------------------------------------|--------------------------|--------|--------|----------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|----------------|-----------------|-----------------------------------------------------|-----------------|
|                                            |                          |        |        |          | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost     |
|                                            | Year 1                   | Year 2 | Year 3 | Total    | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |                |                 |                                                     |                 |
|                                            | A                        |        |        |          | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C              | D              | C+D             | A*B                                                 | A*(C+D)         |
| Perform Statistical Analysis               | 0                        | 0      | 1      | 1        | 25                            | 30               | 15                 | 15        | 25           | 0                     | 1        | 111                                             | \$9,436        |                |                 | 111                                                 | \$9,436         |
| Submit Monitoring Results & Study Analysis | 0                        | 0      | 1      | 1        | 0                             | 0                | 0                  | 0         | 0            | 0                     | 4        | 4                                               | \$107          |                |                 | 4                                                   | \$107           |
| Record Keeping                             | 0                        | 0      | 1      | 1        | 1                             | 2                | 0                  | 0         | 0            | 0                     | 4        | 7                                               | \$306          |                |                 | 7                                                   | \$306           |
| <b>Totals</b>                              |                          |        |        | <b>1</b> | <b>26</b>                     | <b>32</b>        | <b>15</b>          | <b>15</b> | <b>25</b>    | <b>0</b>              | <b>9</b> | <b>122</b>                                      | <b>\$9,849</b> | <b>\$575</b>   | <b>\$10,424</b> | <b>122</b>                                          | <b>\$10,424</b> |

**Exhibit A.2c.1**  
**Initial Biological Monitoring for Impingement (Freshwater)**

| Activity                     | Facilities (Respondents) |        |        |           | Facility Manager              | Junior Technical | Contracted Manager | Biologist  | Statistician | Biological Technician | Clerical  | Totals Per Facility for the ICR Approval Period |                 |                |                 | Total for All Facilities in the ICR Approval Period |                  |
|------------------------------|--------------------------|--------|--------|-----------|-------------------------------|------------------|--------------------|------------|--------------|-----------------------|-----------|-------------------------------------------------|-----------------|----------------|-----------------|-----------------------------------------------------|------------------|
|                              |                          |        |        |           | Assumed Loaded Hourly Rate \$ |                  |                    |            |              |                       |           | Burden (hrs)                                    | Labor Cost      | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost      |
|                              | Year 1                   | Year 2 | Year 3 | Total     | \$110                         | \$45             | \$134              | \$69       | \$90         | \$48                  | \$27      |                                                 |                 |                |                 |                                                     |                  |
|                              | A                        |        |        |           | Level of Effort (hrs)         |                  |                    |            |              |                       |           | B                                               | C               | D              | C+D             | A*B                                                 | A*(C+D)          |
| Monthly Sample Collection    | 11                       | 10     | 10     | 31        | 2                             | 0                | 4                  | 72         | 0            | 72                    | 0         | 150                                             | \$9,181         |                |                 | 4,650                                               | \$284,617        |
| Onsite Analysis of Samples   | 11                       | 10     | 10     | 31        | 4                             | 0                | 12                 | 72         | 0            | 72                    | 0         | 160                                             | \$10,476        |                |                 | 4,960                                               | \$324,756        |
| Perform Statistical Analysis | 11                       | 10     | 10     | 31        | 8                             | 4                | 0                  | 0          | 32           | 0                     | 0         | 44                                              | \$3,951         |                |                 | 1,364                                               | \$122,475        |
| Record Keeping               | 11                       | 10     | 10     | 31        | 2                             | 1                | 1                  | 4          | 1            | 0                     | 16        | 25                                              | \$1,194         |                |                 | 775                                                 | \$37,017         |
| <b>Totals</b>                |                          |        |        | <b>31</b> | <b>16</b>                     | <b>5</b>         | <b>17</b>          | <b>148</b> | <b>33</b>    | <b>144</b>            | <b>16</b> | <b>379</b>                                      | <b>\$24,802</b> | <b>\$575</b>   | <b>\$25,377</b> | <b>11,749</b>                                       | <b>\$786,690</b> |

**Exhibit A.2c.2**  
**Reduced Biological Monitoring for Impingement (Freshwater)**

| Activity                     | Facilities (Respondents) |        |        |            | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                 |                |                 | Total for All Facilities in the ICR Approval Period |                    |
|------------------------------|--------------------------|--------|--------|------------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|-----------------|----------------|-----------------|-----------------------------------------------------|--------------------|
|                              |                          |        |        |            | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost      | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost        |
|                              | Year 1                   | Year 2 | Year 3 | Total      | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                 |                |                 |                                                     |                    |
|                              | A                        |        |        |            | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C               | D              | C+D             | A*B                                                 | A*(C+D)            |
| Reduced Sample Collection    | 62                       | 68     | 73     | 203        | 1                             | 0                | 2                  | 36        | 0            | 36                    | 0        | 75                                              | \$4,591         |                |                 | 15,225                                              | \$931,892          |
| Onsite Analysis of Samples   | 62                       | 68     | 73     | 203        | 2                             | 0                | 6                  | 36        | 0            | 36                    | 0        | 80                                              | \$5,238         |                |                 | 16,240                                              | \$1,063,314        |
| Perform Statistical Analysis | 62                       | 68     | 73     | 203        | 4                             | 2                | 0                  | 0         | 16           | 0                     | 0        | 22                                              | \$1,975         |                |                 | 4,466                                               | \$401,006          |
| Record Keeping               | 62                       | 68     | 73     | 203        | 1                             | 1                | 1                  | 2         | 1            | 0                     | 8        | 14                                              | \$732           |                |                 | 2,842                                               | \$148,576          |
| <b>Totals</b>                |                          |        |        | <b>203</b> | <b>8</b>                      | <b>3</b>         | <b>9</b>           | <b>74</b> | <b>17</b>    | <b>72</b>             | <b>8</b> | <b>191</b>                                      | <b>\$12,536</b> | <b>\$288</b>   | <b>\$12,823</b> | <b>38,773</b>                                       | <b>\$2,603,150</b> |

**Exhibit A.2d.1**
**Initial Biological Monitoring for Impingement (Estuary)**

| Activity                            | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |                |             | Total for All Facilities in the ICR Approval Period |             |
|-------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|----------------|-------------|-----------------------------------------------------|-------------|
|                                     |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.)                                       | Annual Cost |
|                                     | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |                |             |                                                     |             |
|                                     | A                        |        |        |       | Level of Effort (hrs)         |                  |                    |           |              |                       |          |                                                 | B          | C              | D           | C+D                                                 | A*B         |
| Monthly Sample Collection           | 1                        | 2      | 1      | 4     | 2                             | 0                | 5                  | 94        | 0            | 94                    | 0        | 194                                             | \$11,870   |                |             | 778                                                 | \$47,479    |
| Handling and Preparation of Samples | 1                        | 2      | 1      | 4     | 4                             | 0                | 16                 | 94        | 0            | 94                    | 0        | 207                                             | \$13,487   |                |             | 827                                                 | \$53,948    |
| Perform Statistical Analysis        | 1                        | 2      | 1      | 4     | 8                             | 4                | 0                  | 0         | 42           | 0                     | 0        | 54                                              | \$4,819    |                |             | 214                                                 | \$19,275    |
| Record Keeping                      | 1                        | 2      | 1      | 4     | 2                             | 1                | 1                  | 5         | 1            | 0                     | 16       | 27                                              | \$1,345    |                |             | 107                                                 | \$5,379     |
| Totals                              |                          |        |        | 4     | 16                            | 5                | 22                 | 192       | 43           | 187                   | 16       | 482                                             | \$31,520   | \$745          | \$32,265    | 1,926                                               | \$129,061   |

**Exhibit A.2d.2**
**Reduced Biological Monitoring for Impingement (Estuary)**

| Facilities (Respondents)            |    |    |    |    | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |                |             | Total for All Facilities in the ICR Approval Period |             |
|-------------------------------------|----|----|----|----|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|----------------|-------------|-----------------------------------------------------|-------------|
|                                     |    |    |    |    | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.)                                       | Annual Cost |
|                                     |    |    |    |    | Year 1                        | Year 2           | Year 3             | Total     | \$110        | \$45                  | \$134    |                                                 |            |                |             |                                                     |             |
| Activity                            | A  |    |    |    | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C          | D              | C+D         | A*B                                                 | A*(C+D)     |
| Reduced Sample Collection           | 11 | 11 | 12 | 34 | 1                             | 0                | 3                  | 47        | 0            | 47                    | 0        | 98                                              | \$6,012    |                |             | 3,332                                               | \$204,408   |
| Handling and Preparation of Samples | 11 | 11 | 12 | 34 | 2                             | 0                | 8                  | 47        | 0            | 47                    | 0        | 104                                             | \$6,794    |                |             | 3,536                                               | \$230,989   |
| Perform Statistical Analysis        | 11 | 11 | 12 | 34 | 4                             | 2                | 0                  | 0         | 21           | 0                     | 0        | 27                                              | \$2,427    |                |             | 918                                                 | \$82,532    |
| Record Keeping                      | 11 | 11 | 12 | 34 | 1                             | 1                | 1                  | 3         | 1            | 0                     | 8        | 15                                              | \$801      |                |             | 510                                                 | \$27,244    |
| Totals                              |    |    |    | 34 | 8                             | 3                | 12                 | 97        | 22           | 94                    | 8        | 244                                             | \$16,035   | \$373          | \$16,407    | 8,296                                               | \$557,838   |

**Exhibit A.2e.1**
**Initial Biological Monitoring for Entrainment (Freshwater)**

| Activity                            | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |                |             | Total for All Facilities in the ICR Approval Period |             |
|-------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|----------------|-------------|-----------------------------------------------------|-------------|
|                                     |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.)                                       | Annual Cost |
|                                     | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |                |             |                                                     |             |
|                                     | A                        |        |        |       | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C          | D              | C+D         | A*B                                                 | A*(C+D)     |
| Biweekly Sample Collection          | 11                       | 10     | 10     | 31    | 4                             | 0                | 12                 | 156       | 0            | 156                   | 0        | 328                                             | \$20,304   |                |             | 10,168                                              | \$629,424   |
| Handling and Preparation of Samples | 11                       | 10     | 10     | 31    | 4                             | 0                | 12                 | 78        | 0            | 78                    | 0        | 172                                             | \$11,178   |                |             | 5,332                                               | \$346,518   |
| Perform Statistical Analysis        | 11                       | 10     | 10     | 31    | 16                            | 4                | 0                  | 0         | 64           | 0                     | 0        | 84                                              | \$7,722    |                |             | 2,604                                               | \$239,382   |
| Recordkeeping                       | 11                       | 10     | 10     | 31    | 2                             | 1                | 1                  | 8         | 2            | 0                     | 16       | 30                                              | \$1,562    |                |             | 930                                                 | \$48,425    |
| Totals                              |                          |        |        | 31    | 26                            | 5                | 25                 | 242       | 66           | 234                   | 16       | 614                                             | \$40,766   | \$1,150        | \$41,916    | 19,034                                              | \$1,299,399 |

**Exhibit A.2e.2**
**Reduced Biological Monitoring for Entrainment (Freshwater)**

| Facilities (Respondents)                                                                                          |    |    |    |     | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |                |             | Total for All Facilities in the ICR Approval Period |             |          |        |             |
|-------------------------------------------------------------------------------------------------------------------|----|----|----|-----|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|----------------|-------------|-----------------------------------------------------|-------------|----------|--------|-------------|
|                                                                                                                   |    |    |    |     | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | ODCs lump sum* | Total Costs | Burden (hrs.)                                       | Annual Cost |          |        |             |
|                                                                                                                   |    |    |    |     | Year 1                        | Year 2           | Year 3             | Total     | \$110        | \$45                  | \$134    |                                                 |            |                |             |                                                     |             | \$69     | \$90   | \$48        |
|                                                                                                                   |    |    |    |     | Activity                      | A                |                    |           |              | Level of Effort (hrs) |          |                                                 |            |                |             |                                                     | B           | C        | D      | C+D         |
| Reduced Sample Collection<br>Handling and Preparation of Samples<br>Perform Statistical Analysis<br>Recordkeeping | 62 | 68 | 73 | 203 | 2                             | 0                | 6                  | 78        | 0            | 78                    | 0        | 164                                             | \$10,152   |                |             | 33,292                                              | \$2,060,856 |          |        |             |
|                                                                                                                   | 62 | 68 | 73 | 203 | 2                             | 0                | 6                  | 39        | 0            | 39                    | 0        | 86                                              | \$5,589    |                |             | 17,458                                              | \$1,134,567 |          |        |             |
|                                                                                                                   | 62 | 68 | 73 | 203 | 8                             | 2                | 0                  | 0         | 32           | 0                     | 0        | 42                                              | \$3,861    |                |             | 8,526                                               | \$783,783   |          |        |             |
|                                                                                                                   | 62 | 68 | 73 | 203 | 1                             | 1                | 1                  | 4         | 1            | 0                     | 8        | 16                                              | \$871      |                |             | 3,248                                               | \$176,752   |          |        |             |
| Totals                                                                                                            |    |    |    |     |                               |                  | 203                | 13        | 3            | 13                    | 121      | 33                                              | 117        | 8              | 308         | \$20,473                                            | \$575       | \$21,048 | 62,524 | \$4,272,683 |

**Exhibit A.2f.1**
**Initial Biological Monitoring for Entrainment (Estuary)**

| Activity                            | Facilities (Respondents) |        |        |          | Facility Manager              | Junior Technical | Contracted Manager | Biologist  | Statistician | Biological Technician | Clerical  | Totals Per Facility for the ICR Approval Period |                 |                |                 | Total for All Facilities in the ICR Approval Period |                  |
|-------------------------------------|--------------------------|--------|--------|----------|-------------------------------|------------------|--------------------|------------|--------------|-----------------------|-----------|-------------------------------------------------|-----------------|----------------|-----------------|-----------------------------------------------------|------------------|
|                                     |                          |        |        |          | Assumed Loaded Hourly Rate \$ |                  |                    |            |              |                       |           | Burden (hrs)                                    | Labor Cost      | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost      |
|                                     | Year 1                   | Year 2 | Year 3 | Total    | \$110                         | \$45             | \$134              | \$69       | \$90         | \$48                  | \$27      |                                                 |                 |                |                 |                                                     |                  |
|                                     | A                        |        |        |          | Level of Effort (hrs)         |                  |                    |            |              |                       |           | B                                               | C               | D              | C+D             | A*B                                                 | A*(C+D)          |
| Biweekly Sample Collection          | 1                        | 2      | 1      | 4        | 4                             | 0                | 12                 | 203        | 0            | 203                   | 0         | 422                                             | \$25,803        |                |                 | 1,688                                               | \$103,212        |
| Handling and Preparation of Samples | 1                        | 2      | 1      | 4        | 4                             | 0                | 12                 | 101        | 0            | 101                   | 0         | 218                                             | \$13,869        |                |                 | 872                                                 | \$55,476         |
| Perform Statistical Analysis        | 1                        | 2      | 1      | 4        | 16                            | 4                | 0                  | 0          | 83           | 0                     | 0         | 103                                             | \$9,440         |                |                 | 412                                                 | \$37,758         |
| Recordkeeping                       | 1                        | 2      | 1      | 4        | 2                             | 1                | 1                  | 10         | 3            | 0                     | 16        | 33                                              | \$1,791         |                |                 | 132                                                 | \$7,165          |
| <b>Totals</b>                       |                          |        |        | <b>4</b> | <b>26</b>                     | <b>5</b>         | <b>25</b>          | <b>314</b> | <b>86</b>    | <b>304</b>            | <b>16</b> | <b>776</b>                                      | <b>\$50,903</b> | <b>\$1,320</b> | <b>\$52,223</b> | <b>3,104</b>                                        | <b>\$208,892</b> |

**Exhibit A.2f.2**
**Reduced Biological Monitoring for Entrainment (Estuary)**

| Activity                            | Facilities (Respondents) |        |        |           | Facility Manager              | Junior Technical | Contracted Manager | Biologist  | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                 |                |                 | Total for All Facilities in the ICR Approval Period |                  |
|-------------------------------------|--------------------------|--------|--------|-----------|-------------------------------|------------------|--------------------|------------|--------------|-----------------------|----------|-------------------------------------------------|-----------------|----------------|-----------------|-----------------------------------------------------|------------------|
|                                     |                          |        |        |           | Assumed Loaded Hourly Rate \$ |                  |                    |            |              |                       |          | Burden (hrs)                                    | Labor Cost      | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost      |
|                                     | Year 1                   | Year 2 | Year 3 | Total     | \$110                         | \$45             | \$134              | \$69       | \$90         | \$48                  | \$27     |                                                 |                 |                |                 |                                                     |                  |
|                                     | A                        |        |        |           | Level of Effort (hrs)         |                  |                    |            |              |                       |          | B                                               | C               | D              | C+D             | A*B                                                 | A*(C+D)          |
| Reduced Sample Collection           | 11                       | 11     | 12     | 34        | 2                             | 0                | 6                  | 102        | 0            | 102                   | 0        | 212                                             | \$12,960        |                |                 | 7,208                                               | \$440,640        |
| Handling and Preparation of Samples | 11                       | 11     | 12     | 34        | 2                             | 0                | 6                  | 51         | 0            | 51                    | 0        | 110                                             | \$6,993         |                |                 | 3,740                                               | \$237,762        |
| Perform Statistical Analysis        | 11                       | 11     | 12     | 34        | 8                             | 2                | 0                  | 0          | 42           | 0                     | 0        | 52                                              | \$4,765         |                |                 | 1,768                                               | \$162,010        |
| Recordkeeping                       | 11                       | 11     | 12     | 34        | 1                             | 1                | 1                  | 5          | 2            | 0                     | 8        | 18                                              | \$1,031         |                |                 | 612                                                 | \$35,037         |
| <b>Totals</b>                       |                          |        |        | <b>34</b> | <b>13</b>                     | <b>3</b>         | <b>13</b>          | <b>158</b> | <b>44</b>    | <b>153</b>            | <b>8</b> | <b>392</b>                                      | <b>\$25,749</b> | <b>\$660</b>   | <b>\$26,409</b> | <b>13,328</b>                                       | <b>\$897,889</b> |

**Exhibit A.2g**
**Velocity Monitoring**

| Activity                           | Facilities (Respondents) |        |        |            | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |                |                | Total for All Facilities in the ICR Approval Period |                    |
|------------------------------------|--------------------------|--------|--------|------------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|----------------|----------------|-----------------------------------------------------|--------------------|
|                                    |                          |        |        |            | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | ODCs lump sum* | Total Costs    | Burden (hrs.)                                       | Annual Cost        |
|                                    | Year 1                   | Year 2 | Year 3 | Total      | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |                |                |                                                     |                    |
|                                    | A                        |        |        |            | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C              | D              | C+D            | A*B                                                 | A*(C+D)            |
| Monitor Average Through Technology | 85                       | 91     | 96     | 272        | 2                             | 100              | 0                  | 0         | 0            | 0                     | 0        | 102                                             | \$4,710        |                |                | 27,744                                              | \$1,281,011        |
| Analyze Data                       | 85                       | 91     | 96     | 272        | 4                             | 40               | 0                  | 0         | 0            | 0                     | 0        | 44                                              | \$2,235        |                |                | 11,968                                              | \$607,974          |
| Recordkeeping                      | 85                       | 91     | 96     | 272        | 1                             | 8                | 0                  | 0         | 0            | 0                     | 8        | 17                                              | \$683          |                |                | 4,624                                               | \$185,667          |
| <b>Totals</b>                      |                          |        |        | <b>272</b> | <b>7</b>                      | <b>148</b>       | <b>0</b>           | <b>0</b>  | <b>0</b>     | <b>0</b>              | <b>8</b> | <b>163</b>                                      | <b>\$7,627</b> | <b>\$115</b>   | <b>\$7,742</b> | <b>44,336</b>                                       | <b>\$2,105,933</b> |

**Exhibit A.2h**
**Inspection of Installed Technologies**

| Activity                                    | Facilities (Respondents) |        |        |           | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                 |                |                 | Total for All Facilities in the ICR Approval Period |                    |
|---------------------------------------------|--------------------------|--------|--------|-----------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|-----------------|----------------|-----------------|-----------------------------------------------------|--------------------|
|                                             |                          |        |        |           | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost      | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost        |
|                                             | Year 1                   | Year 2 | Year 3 | Total     | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                 |                |                 |                                                     |                    |
|                                             | A                        |        |        |           | Level of Effort (hrs)         |                  |                    |           |              |                       |          | B                                               | C               | D              | C+D             | A*B                                                 | A*(C+D)            |
| Visually Inspect All Installed Technologies | 31                       | 32     | 33     | 96        | 24                            | 208              | 0                  | 0         | 0            | 0                     | 0        | 232                                             | \$11,974        |                |                 | 22,272                                              | \$1,149,542        |
| Recordkeeping                               | 31                       | 32     | 33     | 96        | 3                             | 16               | 0                  | 0         | 0            | 0                     | 2        | 21                                              | \$1,101         |                |                 | 2,016                                               | \$105,715          |
| <b>Totals</b>                               |                          |        |        | <b>96</b> | <b>27</b>                     | <b>224</b>       | <b>0</b>           | <b>0</b>  | <b>0</b>     | <b>0</b>              | <b>2</b> | <b>253</b>                                      | <b>\$13,076</b> | <b>\$115</b>   | <b>\$13,191</b> | <b>24,288</b>                                       | <b>\$1,266,298</b> |

**Exhibit A.2i**
**Yearly Status Report Activities**

| Activity                             | Facilities (Respondents) |        |        |            | Facility Manager              | Junior Technical | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical  | Totals Per Facility for the ICR Approval Period |                 |                |                 | Total for All Facilities in the ICR Approval Period |                    |
|--------------------------------------|--------------------------|--------|--------|------------|-------------------------------|------------------|--------------------|-----------|--------------|-----------------------|-----------|-------------------------------------------------|-----------------|----------------|-----------------|-----------------------------------------------------|--------------------|
|                                      |                          |        |        |            | Assumed Loaded Hourly Rate \$ |                  |                    |           |              |                       |           | Burden (hrs)                                    | Labor Cost      | ODCs lump sum* | Total Costs     | Burden (hrs.)                                       | Annual Cost        |
|                                      | Year 1                   | Year 2 | Year 3 | Total      | \$110                         | \$45             | \$134              | \$69      | \$90         | \$48                  | \$27      |                                                 |                 |                |                 |                                                     |                    |
|                                      | A                        |        |        |            | Level of Effort (hrs)         |                  |                    |           |              |                       |           | B                                               | C               | D              | C+D             | A*B                                                 | A*(C+D)            |
| Report on Inspection and Maintenance | 85                       | 91     | 96     | 272        | 16                            | 16               | 0                  | 0         | 0            | 0                     | 0         | 32                                              | \$2,475         |                |                 | 8,704                                               | \$673,254          |
| Detail Velocity Monitoring Results   | 85                       | 91     | 96     | 272        | 8                             | 16               | 0                  | 0         | 0            | 0                     | 0         | 24                                              | \$1,597         |                |                 | 6,528                                               | \$434,330          |
| Detail Biological Monitoring Results | 85                       | 91     | 96     | 272        | 24                            | 32               | 4                  | 4         | 24           | 0                     | 0         | 88                                              | \$7,057         |                |                 | 23,936                                              | \$1,919,450        |
| Compile and Submit Report            | 85                       | 91     | 96     | 272        | 80                            | 80               | 0                  | 0         | 0            | 0                     | 16        | 176                                             | \$12,803        |                |                 | 47,872                                              | \$3,482,470        |
| Recordkeeping                        | 85                       | 91     | 96     | 272        | 8                             | 12               | 0                  | 0         | 0            | 0                     | 8         | 28                                              | \$1,631         |                |                 | 7,616                                               | \$443,578          |
| <b>Totals</b>                        |                          |        |        | <b>272</b> | <b>136</b>                    | <b>156</b>       | <b>4</b>           | <b>4</b>  | <b>24</b>    | <b>0</b>              | <b>24</b> | <b>348</b>                                      | <b>\$25,563</b> | <b>\$860</b>   | <b>\$26,423</b> | <b>94,656</b>                                       | <b>\$7,187,002</b> |

**Total Burden and Cost for All Annual Activities**

|                              |  |  |  |  | Burden Per Facility | Cost per Facility | ODCs lump sum* | Total Cost per Facility | Total Burden (hrs.) | Total Annual Cost |
|------------------------------|--|--|--|--|---------------------|-------------------|----------------|-------------------------|---------------------|-------------------|
| Track 1 Freshwater           |  |  |  |  | 1,757               | 111,834           | 2,815          | 114,649                 |                     |                   |
| Track 1 Freshwater - Reduced |  |  |  |  | 1,263               | 79,274            | 1,953          | 81,227                  |                     |                   |
| Track 1 Estuary              |  |  |  |  | 2,022               | 128,689           | 3,155          | 131,844                 |                     |                   |
| Track 1 Estuary - Reduced    |  |  |  |  | 1,400               | 88,049            | 2,123          | 90,171                  |                     |                   |
| Track 2 Freshwater           |  |  |  |  | 1,849               | 119,214           | 3,390          | 122,604                 |                     |                   |
| Track 2 Freshwater - Reduced |  |  |  |  | 1,355               | 86,654            | 2,528          | 89,182                  |                     |                   |
| Track 2 Estuary              |  |  |  |  | 2,144               | 138,538           | 3,730          | 142,268                 |                     |                   |
| Track 2 Estuary - Reduced    |  |  |  |  | 1,522               | 97,898            | 2,698          | 100,595                 |                     |                   |
| <b>Totals</b>                |  |  |  |  |                     |                   |                |                         | <b>322,780</b>      | <b>21,380,943</b> |

**Exhibit A.2j**
**Facility Annual O&M Costs**

| Activity                                        | Facilities (Responses) |    |    |     | Contracted Laboratory Analysis Cost | Operation and Maintenance Costs |  | ODCs lump sum* |  | Cost (\$)   |
|-------------------------------------------------|------------------------|----|----|-----|-------------------------------------|---------------------------------|--|----------------|--|-------------|
| Operation of Remote Sensing Device              | 54                     | 59 | 63 | 176 |                                     | \$230                           |  | \$55           |  | \$50,160    |
| Identify & Enumerate Entrained Freshwater Biota | 73                     | 78 | 83 | 234 | \$9,000                             |                                 |  |                |  | \$2,106,000 |
| Identify & Enumerate Entrained Estuary Biota    | 12                     | 13 | 13 | 38  | \$11,700                            |                                 |  |                |  | \$444,600   |
|                                                 |                        |    |    |     |                                     |                                 |  | \$55           |  | \$2,600,760 |

**Total Cost for All NPDES Application Activities**

|               | Total Cost (\$)     |
|---------------|---------------------|
| <b>Totals</b> | <b>\$23,981,703</b> |

**Exhibit A.3**  
**Director Burden and Cost Estimates for Activities**

**Exhibit A.3a**  
**Director Start-up Activities**

|          |                          | 12/2011-<br>11/2012   | 12/2012-<br>11/2013           | 12/2013-<br>11/2014 | Clerical | Burden<br>Per<br>Director | Labor<br>Cost per<br>Director | ODCs<br>lump<br>sum* | Total<br>Cost Per<br>Director | Total<br>Burden<br>(hrs.) | Total<br>Initial Cost |
|----------|--------------------------|-----------------------|-------------------------------|---------------------|----------|---------------------------|-------------------------------|----------------------|-------------------------------|---------------------------|-----------------------|
|          |                          |                       | Assumed Loaded Hourly Rate \$ |                     |          |                           |                               |                      |                               |                           |                       |
|          |                          |                       | 75                            | 35                  | 29       |                           |                               |                      |                               |                           |                       |
| Activity | A                        | Level of Effort (hrs) |                               |                     | B        | C                         | D                             | C+D                  | A*B                           | A*(C+D)                   |                       |
|          | Read and Understand Rule | -                     | 12                            | 12                  | 0        | 24                        | \$1,313                       |                      |                               | -                         | \$0                   |
|          | Mobilization/Planning    | -                     | 24                            | 16                  | 0        | 40                        | \$2,348                       |                      |                               | -                         | \$0                   |
|          | Training                 | -                     | 4                             | 32                  | 0        | 36                        | \$1,409                       |                      |                               | -                         | \$0                   |
| Totals   |                          | -                     | 40                            | 60                  | 0        | 100                       | \$5,070                       | \$50                 | \$5,120                       | -                         | \$0                   |

**Exhibit A.3a**  
**Director Permit Issuance Activities**

| Activity                                                                 | Directors<br>(Responses) | Senior                        | Junior    |          | Burden<br>Per<br>Permit | Labor<br>Cost per<br>Permit | ODCs<br>lump<br>sum* | Total<br>Cost Per<br>Permit | Total<br>Burden<br>(hrs.) | Total<br>Initial<br>Cost* |
|--------------------------------------------------------------------------|--------------------------|-------------------------------|-----------|----------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|---------------------------|
|                                                                          |                          | Technical                     | Technical | Clerical |                         |                             |                      |                             |                           |                           |
|                                                                          |                          | Assumed Loaded Hourly Rate \$ |           |          |                         |                             |                      |                             |                           |                           |
|                                                                          |                          | 75                            | 35        | 29       |                         |                             |                      |                             |                           |                           |
|                                                                          | A                        | Level of Effort (hrs)         |           |          | B                       | C                           | D                    | C+D                         | A*B                       | A*(C+D)                   |
| Reviewing CWIS location and design data                                  | 18                       | 6                             | 18        | 0        | 24                      | \$1,073                     |                      |                             | 432                       | \$19,310                  |
| Determine Compliance with Source Waterbody Flow Information              | 18                       | 2                             | 6         | 0        | 8                       | \$358                       |                      |                             | 144                       | \$6,437                   |
| Review Source Water Baseline Biological Characterization Data            | 18                       | 20                            | 20        | 0        | 40                      | \$2,188                     |                      |                             | 720                       | \$39,384                  |
| Review Design and Construction Technology Plan (Track 1)                 | 14                       | 24                            | 8         | 0        | 32                      | \$2,070                     |                      |                             | 448                       | \$28,986                  |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 14                       | 2                             | 6         | 0        | 8                       | \$358                       |                      |                             | 112                       | \$5,006                   |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     | 14                       | 8                             | 8         | 0        | 16                      | \$875                       |                      |                             | 224                       | \$12,253                  |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 4                        | 16                            | 16        | 0        | 32                      | \$1,750                     |                      |                             | 128                       | \$7,002                   |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 3                        | 400                           | 50        | 0        | 450                     | \$31,615                    |                      |                             | 1,350                     | \$94,845                  |
| Review Evaluation of Potential CWIS Effects (Track 2)                    | 3                        | 16                            | 16        | 0        | 32                      | \$1,750                     |                      |                             | 96                        | \$5,251                   |
| Determine Monitoring Frequency                                           | 17                       | 2                             | 6         | 0        | 8                       | \$358                       |                      |                             | 136                       | \$6,079                   |
| Determine Record keeping and Reporting Frequency                         | 17                       | 2                             | 6         | 0        | 8                       | \$358                       |                      |                             | 136                       | \$6,079                   |
| Considering Public Comments                                              | 17                       | 16                            | 16        | 0        | 32                      | \$1,750                     |                      |                             | 544                       | \$29,757                  |
| Issuing Permit                                                           | 17                       | 1                             | 6         | 1        | 8                       | \$312                       |                      |                             | 136                       | \$5,301                   |
| Permit record keeping                                                    | 17                       | 1                             | 1         | 2        | 4                       | \$167                       |                      |                             | 68                        | \$2,842                   |
| Totals                                                                   | 18                       | 516                           | 183       | 3        | 702                     | \$44,982                    | \$345                | \$45,327                    | 4,674                     | \$274,742                 |
| Track 1 Totals                                                           |                          |                               |           |          | 188                     | \$9,866                     | \$345                | \$10,211                    |                           |                           |
| Track 2 Totals                                                           |                          |                               |           |          | 646                     | \$41,679                    | \$345                | \$42,024                    |                           |                           |

**Exhibit A.3b**  
**Verification Study Review**

| Verification Study Review                      |                          |                               |           |          |                         |                             |                      |                             |                           |                       |
|------------------------------------------------|--------------------------|-------------------------------|-----------|----------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|-----------------------|
| Activity                                       | Directors<br>(Responses) | Senior                        | Junior    |          | Burden<br>Per<br>Permit | Labor<br>Cost per<br>Permit | ODCs<br>lump<br>sum* | Total<br>Cost Per<br>Permit | Total<br>Burden<br>(hrs.) | Total<br>Initial Cost |
|                                                |                          | Technical                     | Technical | Clerical |                         |                             |                      |                             |                           |                       |
|                                                |                          | Assumed Loaded Hourly Rate \$ |           |          |                         |                             |                      |                             |                           |                       |
|                                                |                          | 75                            | 35        | 29       |                         |                             |                      |                             |                           |                       |
|                                                | A                        | Level of Effort (hrs)         |           |          | B                       | C                           | D                    | C+D                         | A*B                       | A*(C+D)               |
| Review of Verification Studies                 | 8                        | 2                             | 4         | 0        | 6                       | \$288                       |                      |                             | 48                        | \$2,306               |
| Permit Modification due to Unfavorable Results | 8                        | 4                             | 10        | 0        | 14                      | \$646                       |                      |                             | 112                       | \$5,166               |
| Record Keeping                                 | 8                        | 0                             | 0         | 1        | 1                       | \$29                        |                      |                             | 8                         | \$231                 |
| Totals                                         | 8                        | 6                             | 14        | 1        | 21                      | \$963                       | \$55                 | \$1,018                     | 168                       | \$8,000               |

**Exhibit A.3c**  
**Annual Director Activities**

| Activity                                    | Directors<br>(Responses) | Senior                        | Junior    |          | Burden<br>Per<br>Permit | Labor<br>Cost per<br>Permit | ODCs<br>lump<br>sum* | Total<br>Cost Per<br>Permit | Total<br>Burden<br>(hrs.) | Total<br>Annual<br>Cost |
|---------------------------------------------|--------------------------|-------------------------------|-----------|----------|-------------------------|-----------------------------|----------------------|-----------------------------|---------------------------|-------------------------|
|                                             |                          | Technical                     | Technical | Clerical |                         |                             |                      |                             |                           |                         |
|                                             |                          | Assumed Loaded Hourly Rate \$ |           |          |                         |                             |                      |                             |                           |                         |
|                                             |                          | 75                            | 35        | 29       |                         |                             |                      |                             |                           |                         |
|                                             | A                        | Level of Effort (hrs)         |           |          | B                       | C                           | D                    | C+D                         | A*B                       | A*(C+D)                 |
| Review of Yearly Report                     | 272                      | 6                             | 12        | 0        | 18                      | \$865                       |                      |                             | 4,896                     | \$235,171               |
| Compliance Tracking                         | 272                      | 4                             | 12        | 0        | 16                      | \$715                       |                      |                             | 4,352                     | \$194,534               |
| Determination on Monitoring Scope Reduction | 272                      | 4                             | 8         | 0        | 12                      | \$576                       |                      |                             | 3,264                     | \$156,781               |
| Record Keeping                              | 272                      | 1                             | 2         | 1        | 4                       | \$173                       |                      |                             | 1,088                     | \$47,056                |
| Totals                                      | 272                      | 15                            | 34        | 1        | 50                      | \$2,329                     | \$55                 | \$2,384                     | 13,600                    | \$649,000               |

**Total Burden and Cost for All Director Activities**

|               |  |  |  |  |  |  |  |  | Total<br>Burden<br>(hrs.) | Total<br>Initial Cost |
|---------------|--|--|--|--|--|--|--|--|---------------------------|-----------------------|
| <b>Totals</b> |  |  |  |  |  |  |  |  | <b>18,274</b>             | <b>\$931,742</b>      |

**Exhibit A.4**  
**Federal Burden and Cost Estimates for Activities**

**Exhibit A.4a**  
**Federal Permit Program Oversight Activities**

| Activity                                                                 | Federal<br>(Responses)<br>Over Three<br>Years | Senior                        | Junior    |          | Burden<br>per<br>permit<br>Review | Labor<br>Cost per<br>Permit<br>Review | ODCs<br>lump<br>sum* | Total Cost<br>per Permit<br>Review | Total<br>Burden<br>(hrs.) | Total Initial<br>Cost * |
|--------------------------------------------------------------------------|-----------------------------------------------|-------------------------------|-----------|----------|-----------------------------------|---------------------------------------|----------------------|------------------------------------|---------------------------|-------------------------|
|                                                                          |                                               | Technical                     | Technical | Clerical |                                   |                                       |                      |                                    |                           |                         |
|                                                                          |                                               | Assumed Loaded Hourly Rate \$ |           |          |                                   |                                       |                      |                                    |                           |                         |
|                                                                          |                                               | 75                            | 35        | 29       |                                   |                                       |                      |                                    |                           |                         |
|                                                                          | A                                             | Level of Effort (hrs)         |           |          | B                                 | C                                     | D                    | C+D                                | A*B                       | A*(C+D)                 |
| Reviewing CWIS location and design data                                  | 18                                            | 1                             | 2         | 0        | 3                                 | \$144                                 |                      |                                    | 54                        | \$2,594                 |
| Determine Compliance with Source Waterbody Flow Information              | 18                                            | 1                             | 3         | 0        | 4                                 | \$179                                 |                      |                                    | 72                        | \$3,218                 |
| Review Source Water Baseline Biological Characterization Data            | 18                                            | 1                             | 2         | 0        | 3                                 | \$144                                 |                      |                                    | 54                        | \$2,594                 |
| Review Design and Construction Technology Plan (Track 1)                 | 14                                            | 1                             | 3         | 0        | 4                                 | \$179                                 |                      |                                    | 56                        | \$2,503                 |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 14                                            | 1                             | 2         | 0        | 3                                 | \$144                                 |                      |                                    | 42                        | \$2,017                 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     |                                               |                               |           |          |                                   |                                       |                      |                                    |                           |                         |
|                                                                          | 14                                            | 1                             | 2         | 0        | 3                                 | \$144                                 |                      |                                    | 42                        | \$2,017                 |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 4                                             | 1                             | 2         | 0        | 3                                 | \$144                                 |                      |                                    | 12                        | \$576                   |
| Review Source Water Baseline Biological Characterization Study (Track 2) |                                               |                               |           |          |                                   |                                       |                      |                                    |                           |                         |
|                                                                          | 3                                             | 6                             | 12        | 0        | 18                                | \$865                                 |                      |                                    | 54                        | \$2,594                 |
| Review Evaluation of Potential CWIS Effects (Track 2)                    | 3                                             | 1                             | 2         | 0        | 3                                 | \$144                                 |                      |                                    | 9                         | \$432                   |
| Determine Monitoring Frequency                                           | 17                                            | 1                             | 3         | 0        | 4                                 | \$179                                 |                      |                                    | 68                        | \$3,040                 |
| Permit Record Keeping                                                    | 17                                            | 1                             | 1         | 2        | 4                                 | \$167                                 |                      |                                    | 68                        | \$2,842                 |
| Totals                                                                   | 18                                            | 16                            | 34        | 2        | 30                                | 1,184                                 | \$55                 | \$1,239                            | 531                       | \$25,364                |
| Track 1 Totals                                                           |                                               |                               |           |          | 28                                | \$1,280                               | \$55                 | \$1,335                            |                           |                         |
| Track 2 Totals                                                           |                                               |                               |           |          | 42                                | \$1,966                               | \$55                 | \$2,021                            |                           |                         |

**Exhibit A.5**  
**Respondents for the ICR Approval Period Year by Year by Activity**

**Facilities [1]**

|                                                                              | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-------------------|
|                                                                              | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| <b>Initial NPDES Permit Application Activities</b>                           |                     |                     |                     |                   |
| Start-up Activities                                                          | 6                   | 6                   | 6                   | 6                 |
| Permit Application Activities                                                | 6                   | 6                   | 6                   | 6                 |
| Source Waterbody Flow Information                                            | 6                   | 6                   | 6                   | 6                 |
| Use Existing Data- Source Water Baseline Biological Characterization Data    | 6                   | 6                   | 6                   | 6                 |
| CWIS Flow Reduction Requirements (Track 1)                                   | 5                   | 4                   | 5                   | 5                 |
| CWIS Velocity Requirements (Track 1)                                         | 5                   | 4                   | 5                   | 5                 |
| Design and Construction Technology Plan (Track 1)                            | 5                   | 4                   | 5                   | 5                 |
| Comprehensive Demonstration Study Plan (Track 2)                             | 1                   | 2                   | 1                   | 1                 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 2                   | 2                   | 2                   | 2                 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | 0                   | 1                   | 1                   | 1                 |
| Profile of Source Water Biota for Characterization Study (Track 2)           | 1                   | 2                   | 1                   | 1                 |
| Submit Characterization Study (Track 2)                                      | 1                   | 1                   | 1                   | 1                 |
| Freshwater Evaluation of Potential CWIS Effects (Track 2)                    | 1                   | 1                   | 1                   | 1                 |
| Estuary Evaluation of Potential CWIS Effects (Track 2)                       | 0                   | 0                   | 0                   | 0                 |
| Verification Monitoring Plan (Track 2)                                       | 1                   | 2                   | 1                   | 1                 |
| <b>NPDES Repermitting Activities</b>                                         |                     |                     |                     |                   |
| Start-up Activities                                                          | 9                   | 13                  | 20                  | 14                |
| Permit Application Activities                                                | 9                   | 13                  | 20                  | 14                |
| Source Waterbody Flow Information                                            | 9                   | 13                  | 20                  | 14                |
| Source Water Baseline Biological Characterization Data                       | 9                   | 13                  | 20                  | 14                |
| CWIS Flow Reduction Requirements (Track 1)                                   | 6                   | 8                   | 9                   | 8                 |
| CWIS Velocity Requirements (Track 1)                                         | 6                   | 8                   | 9                   | 8                 |
| Design and Construction Technology Plan (Track 1)                            | 6                   | 8                   | 9                   | 8                 |
| Comprehensive Demonstration Study Plan (Track 2)                             | 3                   | 5                   | 11                  | 6                 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 5                   | 5                   | 13                  | 8                 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | 3                   | 4                   | 5                   | 4                 |
| Profile of Source Water Biota for Characterization Study (Track 2)           | 3                   | 5                   | 11                  | 6                 |
| Submit Characterization Study (Track 2)                                      | 4                   | 2                   | 6                   | 4                 |
| <b>Annual</b>                                                                |                     |                     |                     |                   |
| Freshwater Verification Study (Track 2)                                      | 4                   | 1                   | 2                   | 2                 |
| Estuary Verification Study (Track 2)                                         | 0                   | 0                   | 1                   | 0                 |
| Initial Biological Monitoring for Impingement (Freshwater)                   | 11                  | 10                  | 10                  | 10                |
| Reduced Biological Monitoring for Impingement (Freshwater)                   | 62                  | 68                  | 73                  | 68                |
| Initial Biological Monitoring for Impingement (Estuary)                      | 1                   | 2                   | 1                   | 1                 |
| Reduced Biological Monitoring for Impingement (Estuary)                      | 11                  | 11                  | 12                  | 11                |
| Initial Biological Monitoring for Entrainment (Freshwater)                   | 11                  | 10                  | 10                  | 10                |
| Reduced Biological Monitoring for Entrainment (Freshwater)                   | 62                  | 68                  | 73                  | 68                |
| Initial Biological Monitoring for Entrainment (Estuary)                      | 1                   | 2                   | 1                   | 1                 |
| Reduced Biological Monitoring for Entrainment (Estuary)                      | 11                  | 11                  | 12                  | 11                |
| Velocity Monitoring                                                          | 85                  | 91                  | 96                  | 91                |
| Visual Inspection of Installed Technologies                                  | 31                  | 32                  | 33                  | 32                |
| Yearly Status Report Activities                                              | 85                  | 91                  | 96                  | 91                |
| <b>Respondents</b>                                                           | 92                  | 98                  | 104                 | 98                |

**Directors [2]**

|                                                                          | Year 1<br>12/2014-<br>11/2015 | Year 2<br>12/2015-<br>11/2016 | Year 3<br>12/2016-<br>11/2017 | Annual<br>Average |
|--------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------|
| Director Permit Issuance Activities                                      |                               |                               |                               |                   |
| Reviewing Facility General Permit Application Information                | 6                             | 6                             | 6                             | 6                 |
| Review Source Water Baseline Biological Characterization Data            | 6                             | 6                             | 6                             | 6                 |
| Determine Compliance with Source Waterbody Flow Information              | 6                             | 6                             | 6                             | 6                 |
| Review Design and Construction Technology Plan (Track 1)                 | 5                             | 4                             | 5                             | 5                 |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 5                             | 4                             | 5                             | 5                 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     | 5                             | 4                             | 5                             | 5                 |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 1                             | 2                             | 1                             | 1                 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 1                             | 1                             | 1                             | 1                 |
| Review Evaluation of Potential CWIS Effects (Track 2)                    | 1                             | 1                             | 1                             | 1                 |
| Determining Facility Requirements and Issuing Permit                     | 6                             | 5                             | 6                             | 6                 |
| Verification Study Review                                                | 4                             | 1                             | 3                             | 3                 |
| Director Permit Reissuance Activities                                    |                               |                               |                               |                   |
| Reviewing Facility General Permit Application Information                | 9                             | 13                            | 20                            | 14                |
| Review Source Water Baseline Biological Characterization Data            | 9                             | 13                            | 20                            | 14                |
| Determine Compliance with Source Waterbody Flow Information              | 9                             | 13                            | 20                            | 14                |
| Review Design and Construction Technology Plan (Track 1)                 | 6                             | 8                             | 9                             | 8                 |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 6                             | 8                             | 9                             | 8                 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     | 6                             | 8                             | 9                             | 8                 |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 3                             | 5                             | 11                            | 6                 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 4                             | 2                             | 6                             | 4                 |
| Determining Facility Requirements and Issuing Permit                     | 6                             | 13                            | 17                            | 12                |
| Annual Director Activities                                               |                               |                               |                               |                   |
| Review of Yearly Report                                                  | 85                            | 91                            | 96                            | 91                |
| Compliance Tracking                                                      | 85                            | 91                            | 96                            | 91                |
| Determination on Monitoring Scope Reduction                              | 85                            | 91                            | 96                            | 91                |
| Record Keeping                                                           | 85                            | 91                            | 96                            | 91                |
| <b>Respondents</b>                                                       | <b>92</b>                     | <b>98</b>                     | <b>104</b>                    | <b>98</b>         |

**Sum for Facilities and Directors**

|                      | Year 1<br>12/2014-<br>11/2015 | Year 2<br>12/2015-<br>11/2016 | Year 3<br>12/2016-<br>11/2017 | Annual<br>Average |
|----------------------|-------------------------------|-------------------------------|-------------------------------|-------------------|
| <b>Facilities</b>    | 92                            | 98                            | 104                           | 98                |
| <b>Directors</b>     | 92                            | 98                            | 104                           | 98                |
| <b>Yearly Total*</b> | <b>184</b>                    | <b>196</b>                    | <b>208</b>                    | <b>196</b>        |

[1] Each facility is one respondent. One respondent may be involved in more than one activity; however, in order to avoid double-counting, the maximum number of respondents expected to be involved in the rule activities annually is assumed to be the number of respondents for that year.

[2] Each Director is one respondent.

\* Total does not add due to rounding.

**Exhibit A.6**  
**Responses for the ICR Approval Period Year by Year by Activity**

**Facilities**

|                                                                              | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-------------------|
|                                                                              | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| <b>Initial Permitting</b>                                                    |                     |                     |                     |                   |
| Start-up Activities                                                          | 6                   | 6                   | 6                   | 6                 |
| Permit Application Activities                                                | 6                   | 6                   | 6                   | 6                 |
| Source Waterbody Flow Information                                            | 6                   | 6                   | 6                   | 6                 |
| Use Existing Data- Source Water Baseline Biological Characterization Data    | 6                   | 6                   | 6                   | 6                 |
| CWIS Flow Reduction Requirements (Track 1)                                   | 5                   | 4                   | 5                   | 5                 |
| CWIS Velocity Requirements (Track 1)                                         | 5                   | 4                   | 5                   | 5                 |
| Design and Construction Technology Plan (Track 1)                            | 5                   | 4                   | 5                   | 5                 |
| Comprehensive Demonstration Study Plan (Track 2)                             | 1                   | 2                   | 1                   | 1                 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 2                   | 2                   | 2                   | 2                 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | 0                   | 1                   | 1                   | 1                 |
| Profile of Source Water Biota for Characterization Study (Track 2)           | 1                   | 2                   | 1                   | 1                 |
| Submit Characterization Study (Track 2)                                      | 1                   | 1                   | 1                   | 1                 |
| Freshwater Evaluation of Potential CWIS Effects (Track 2)                    | 1                   | 1                   | 1                   | 1                 |
| Estuary Evaluation of Potential CWIS Effects (Track 2)                       | 0                   | 0                   | 0                   | 0                 |
| Verification Monitoring Plan (Track 2)                                       | 1                   | 2                   | 1                   | 1                 |
| <b>NPDES Repermitting Activities</b>                                         | 0                   | 0                   | 0                   | 0                 |
| Start-up Activities                                                          | 9                   | 13                  | 20                  | 14                |
| Permit Application Activities                                                | 9                   | 13                  | 20                  | 14                |
| Source Waterbody Flow Information                                            | 9                   | 13                  | 20                  | 14                |
| Source Water Baseline Biological Characterization Data                       | 9                   | 13                  | 20                  | 14                |
| CWIS Flow Reduction Requirements (Track 1)                                   | 6                   | 8                   | 9                   | 8                 |
| CWIS Velocity Requirements (Track 1)                                         | 6                   | 8                   | 9                   | 8                 |
| Design and Construction Technology Plan (Track 1)                            | 6                   | 8                   | 9                   | 8                 |
| Comprehensive Demonstration Study Plan (Track 2)                             | 3                   | 5                   | 11                  | 6                 |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | 5                   | 5                   | 13                  | 8                 |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | 3                   | 4                   | 5                   | 4                 |
| Profile of Source Water Biota for Characterization Study (Track 2)           | 3                   | 5                   | 11                  | 6                 |
| Submit Characterization Study (Track 2)                                      | 4                   | 2                   | 6                   | 4                 |
| <b>Annual</b>                                                                | 0                   | 0                   | 0                   | 0                 |
| Freshwater Verification Study (Track 2)                                      | 4                   | 1                   | 2                   | 2                 |
| Estuary Verification Study (Track 2)                                         | 0                   | 0                   | 1                   | 0                 |
| Initial Biological Monitoring for Impingement (Freshwater)                   | 11                  | 10                  | 10                  | 10                |
| Reduced Biological Monitoring for Impingement (Freshwater)                   | 62                  | 68                  | 73                  | 68                |
| Initial Biological Monitoring for Impingement (Estuary)                      | 1                   | 2                   | 1                   | 1                 |
| Reduced Biological Monitoring for Impingement (Estuary)                      | 11                  | 11                  | 12                  | 11                |
| Initial Biological Monitoring for Entrainment (Freshwater)                   | 11                  | 10                  | 10                  | 10                |
| Reduced Biological Monitoring for Entrainment (Freshwater)                   | 62                  | 68                  | 73                  | 68                |
| Initial Biological Monitoring for Entrainment (Estuary)                      | 1                   | 2                   | 1                   | 1                 |
| Reduced Biological Monitoring for Entrainment (Estuary)                      | 11                  | 11                  | 12                  | 11                |
| Velocity Monitoring                                                          | 85                  | 91                  | 96                  | 91                |
| Visual Inspection of Installed Technologies                                  | 31                  | 32                  | 33                  | 32                |
| Yearly Status Report Activities                                              | 85                  | 91                  | 96                  | 91                |
| <b>Responses</b>                                                             | 493                 | 541                 | 620                 | 551               |

# Directors

|                                                                          | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|--------------------------------------------------------------------------|---------------------|---------------------|---------------------|-------------------|
|                                                                          | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| Director Permit Issuance Activities                                      |                     |                     |                     |                   |
| Reviewing Facility General Permit Application Information                | 6                   | 6                   | 6                   | 6                 |
| Review Source Water Baseline Biological Characterization Data            | 6                   | 6                   | 6                   | 6                 |
| Determine Compliance with Source Waterbody Flow Information              | 6                   | 6                   | 6                   | 6                 |
| Review Design and Construction Technology Plan (Track 1)                 | 5                   | 4                   | 5                   | 5                 |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 5                   | 4                   | 5                   | 5                 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     | 5                   | 4                   | 5                   | 5                 |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 1                   | 2                   | 1                   | 1                 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 1                   | 1                   | 1                   | 1                 |
| Review Evaluation of Potential CWIS Effects (Track 2)                    | 1                   | 1                   | 1                   | 1                 |
| Determining Facility Requirements and Issuing Permit                     | 6                   | 5                   | 6                   | 6                 |
| Verification Study Review                                                | 4                   | 1                   | 3                   | 3                 |
| Director Permit Reissuance Activities                                    |                     |                     |                     |                   |
| Reviewing Facility General Permit Application Information                | 9                   | 13                  | 20                  | 14                |
| Review Source Water Baseline Biological Characterization Data            | 9                   | 13                  | 20                  | 14                |
| Determine Compliance with Source Waterbody Flow Information              | 9                   | 13                  | 20                  | 14                |
| Review Design and Construction Technology Plan (Track 1)                 | 6                   | 8                   | 9                   | 8                 |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 6                   | 8                   | 9                   | 8                 |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     | 6                   | 8                   | 9                   | 8                 |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 3                   | 5                   | 11                  | 6                 |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 4                   | 2                   | 6                   | 4                 |
| Determining Facility Requirements and Issuing Permit                     | 6                   | 13                  | 17                  | 12                |
| Annual Director Activities                                               |                     |                     |                     |                   |
| Review of Yearly Report                                                  | 85                  | 91                  | 96                  | 91                |
| Compliance Tracking                                                      | 85                  | 91                  | 96                  | 91                |
| Determination on Monitoring Scope Reduction                              | 85                  | 91                  | 96                  | 91                |
| Record Keeping                                                           | 85                  | 91                  | 96                  | 91                |
| <b>Responses</b>                                                         | <b>444</b>          | <b>487</b>          | <b>550</b>          | <b>494</b>        |

## Sum for Facilities and Directors

|                      | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|----------------------|---------------------|---------------------|---------------------|-------------------|
|                      | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| <b>Facilities</b>    | 493                 | 541                 | 620                 | 551               |
| <b>Directors</b>     | 444                 | 487                 | 550                 | 494               |
| <b>Yearly Total*</b> | <b>937</b>          | <b>1,028</b>        | <b>1,170</b>        | <b>1,045</b>      |

**Exhibit A.7**  
**Hourly Burden for the ICR Approval Period Year by Year**  
**for Facilities**

**Facility Activities**

|                                                                              | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                                                              |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| NPDES Permit Application Activities                                          |                     |                     |                     |                     |                   |
| Start-up Activities                                                          | A1a                 | 258                 | 258                 | 258                 | 258               |
| Permit Application Activities                                                | A1b                 | 876                 | 876                 | 876                 | 876               |
| Source Waterbody Flow Information                                            | A1c                 | 624                 | 624                 | 624                 | 624               |
| Use Existing Data- Source Water Baseline Biological Characterization Data    | A1d                 | 1,590               | 1,590               | 1,590               | 1,590             |
| CWIS Flow Reduction Requirements (Track 1)                                   | A1e                 | 540                 | 432                 | 540                 | 504               |
| CWIS Velocity Requirements (Track 1)                                         | A1f                 | 690                 | 552                 | 690                 | 644               |
| Design and Construction Technology Plan (Track 1)                            | A1g                 | 540                 | 432                 | 540                 | 504               |
| Comprehensive Demonstration Study Plan (Track 2)                             | A1h                 | 271                 | 542                 | 271                 | 361               |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | A1i                 | 4,439               | 4,439               | 4,439               | 4,439             |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | A1i                 | 0                   | 2,870               | 2,870               | 1,914             |
| Profile of Source Water Biota for Characterization Study (Track 2)           | A1i                 | 373                 | 746                 | 373                 | 497               |
| Submit Characterization Study (Track 2)                                      | A1i                 | 384                 | 384                 | 384                 | 384               |
| Freshwater Evaluation of Potential CWIS Effects (Track 2)                    | A1j                 | 1,626               | 1,626               | 1,626               | 1,626             |
| Estuary Evaluation of Potential CWIS Effects (Track 2)                       | A1j                 | 0                   | 0                   | 0                   | 0                 |
| Verification Monitoring Plan (Track 2)                                       | A1k                 | 128                 | 256                 | 128                 | 171               |
| NPDES Permit Application Activity Total                                      |                     | 12,211              | 15,371              | 15,081              | 14,221            |
| NPDES Repermittng Activities                                                 |                     |                     |                     |                     |                   |
| Start-up Activities                                                          | A12a                | 117                 | 169                 | 260                 | 182               |
| Permit Application Activities                                                | A12b                | 648                 | 936                 | 1,440               | 1,008             |
| Source Waterbody Flow Information                                            | A12c                | 279                 | 403                 | 620                 | 434               |
| Source Water Baseline Biological Characterization Data                       | A12d                | 711                 | 1,027               | 1,580               | 1,106             |
| CWIS Flow Reduction Requirements (Track 1)                                   | A12e                | 648                 | 864                 | 972                 | 828               |
| CWIS Velocity Requirements (Track 1)                                         | A12f                | 450                 | 600                 | 675                 | 575               |
| Design and Construction Technology Plan (Track 1)                            | A12g                | 258                 | 344                 | 387                 | 330               |
| Comprehensive Demonstration Study Plan (Track 2)                             | A12h                | 240                 | 400                 | 880                 | 507               |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | A12i                | 6,450               | 6,450               | 16,770              | 9,890             |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | A12i                | 5,040               | 6,720               | 8,400               | 6,720             |
| Profile of Source Water Biota for Characterization Study (Track 2)           | A12i                | 339                 | 565                 | 1,243               | 716               |
| Submit Characterization Study (Track 2)                                      | A12i                | 460                 | 230                 | 690                 | 460               |
| NPDES Repermittng Activity Total                                             |                     | 15,640              | 18,708              | 33,917              | 22,755            |
| Annual Activities                                                            |                     |                     |                     |                     |                   |
| Freshwater Verification Study (Track 2)                                      | A2a                 | 368                 | 92                  | 184                 | 215               |
| Estuary Verification Study (Track 2)                                         | A2b                 | 0                   | 0                   | 122                 | 41                |
| Initial Biological Monitoring for Impingement (Freshwater)                   | A2c1                | 4,169               | 3,790               | 3,790               | 3,916             |
| Reduced Biological Monitoring for Impingement (Freshwater)                   | A2c2                | 11,842              | 12,988              | 13,943              | 12,924            |
| Initial Biological Monitoring for Impingement (Estuary)                      | A2d1                | 482                 | 963                 | 482                 | 642               |
| Reduced Biological Monitoring for Impingement (Estuary)                      | A2d2                | 2,684               | 2,684               | 2,928               | 2,765             |
| Initial Biological Monitoring for Entrainment (Freshwater)                   | A2e1                | 6,754               | 6,140               | 6,140               | 6,345             |
| Reduced Biological Monitoring for Entrainment (Freshwater)                   | A2e2                | 19,096              | 20,944              | 22,484              | 20,841            |
| Initial Biological Monitoring for Entrainment (Estuary)                      | A2f1                | 776                 | 1,552               | 776                 | 1,035             |
| Reduced Biological Monitoring for Entrainment (Estuary)                      | A2f2                | 4,312               | 4,312               | 4,704               | 4,443             |
| Velocity Monitoring                                                          | A2g                 | 13,855              | 14,833              | 15,648              | 14,779            |
| Visual Inspection of Installed Technologies                                  | A2h                 | 7,843               | 8,096               | 8,349               | 8,096             |
| Yearly Status Report Activities                                              | A2i                 | 29,580              | 31,668              | 33,408              | 31,552            |
| Annual Activity Yearly Labor Total                                           |                     | 101,761             | 108,062             | 112,958             | 107,593           |
| Yearly Labor Total                                                           |                     | 129,612             | 142,142             | 161,956             | 144,570           |

**Exhibit A.8**  
**Hourly Burden for the ICR Approval Period Year by Year**  
**for Directors and Federal Government**

| Director Activities                   |                     |                     |                     |                     |                   |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                       | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|                                       |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| Director Permit Issuance Activities   | A3a                 | 1,586               | 1,502               | 1,586               | 1,558             |
| Verification Study Review             | A3b                 | 84                  | 21                  | 63                  | 56                |
| Director Permit Reissuance Activities | A13                 | 803                 | 870                 | 1,542               | 1,072             |
| Annual Director Activities            | A3c                 | 4,250               | 4,550               | 4,800               | 4,533             |
| <b>Yearly Total</b>                   |                     | <b>6,723</b>        | <b>6,943</b>        | <b>7,991</b>        | <b>7,219</b>      |

| Federal Activities                          |                     |                     |                     |                     |                   |
|---------------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                             | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|                                             |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| Federal Permit Program Oversight Activities | A4a                 | 182                 | 167                 | 182                 | 177               |
| <b>Yearly Total</b>                         |                     | <b>182</b>          | <b>167</b>          | <b>182</b>          | <b>177</b>        |

**Exhibit A.9**  
**Costs for the ICR Approval Period Year by Year for Facilities**

**Facility Activities**

|                                                                              | Source<br>(Exhibit) | Year 1<br>12/2014-<br>11/2015 | Year 2<br>12/2015-<br>11/2016 | Year 3<br>12/2016-<br>11/2017 | Annual<br>Average  |
|------------------------------------------------------------------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
| <b>NPDES Permit Application Activities</b>                                   |                     |                               |                               |                               |                    |
| Start-up Activities                                                          | A1a                 | \$18,266                      | \$18,266                      | \$18,266                      | \$18,266           |
| Permit Application Activities                                                | A1b                 | \$46,466                      | \$46,466                      | \$46,466                      | \$46,466           |
| Source Waterbody Flow Information                                            | A1c                 | \$28,512                      | \$28,512                      | \$28,512                      | \$28,512           |
| Use Existing Data- Source Water Baseline Biological Characterization Data    | A1d                 | \$96,977                      | \$96,977                      | \$96,977                      | \$96,977           |
| CWIS Flow Reduction Requirements (Track 1)                                   | A1e                 | \$26,787                      | \$21,430                      | \$26,787                      | \$25,001           |
| CWIS Velocity Requirements (Track 1)                                         | A1f                 | \$38,532                      | \$30,826                      | \$38,532                      | \$35,963           |
| Design and Construction Technology Plan (Track 1)                            | A1g                 | \$31,143                      | \$24,914                      | \$31,143                      | \$29,066           |
| Comprehensive Demonstration Study Plan (Track 2)                             | A1h                 | \$17,446                      | \$34,892                      | \$17,446                      | \$23,262           |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | A1i                 | \$269,446                     | \$269,446                     | \$269,446                     | \$269,446          |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | A1i                 | \$0                           | \$172,209                     | \$172,209                     | \$114,806          |
| Profile of Source Water Biota for Characterization Study (Track 2)           | A1i                 | \$31,019                      | \$62,037                      | \$31,019                      | \$41,358           |
| Submit Characterization Study (Track 2)                                      | A1i                 | \$25,662                      | \$25,662                      | \$25,662                      | \$25,662           |
| Freshwater Evaluation of Potential CWIS Effects (Track 2)                    | A1j                 | \$113,215                     | \$113,215                     | \$113,215                     | \$113,215          |
| Estuary Evaluation of Potential CWIS Effects (Track 2)                       | A1j                 | \$0                           | \$0                           | \$0                           | \$0                |
| Verification Monitoring Plan (Track 2)                                       | A1k                 | \$8,433                       | \$16,865                      | \$8,433                       | \$11,243           |
| <b>NPDES Permit Application Activity Total</b>                               |                     | <b>\$751,903</b>              | <b>\$961,718</b>              | <b>\$924,112</b>              | <b>\$879,244</b>   |
| <b>NPDES Repermitting Activities</b>                                         |                     |                               |                               |                               |                    |
| Start-up Activities                                                          | A12a                | \$8,758                       | \$12,650                      | \$19,462                      | \$13,623           |
| Permit Application Activities                                                | A12b                | \$36,783                      | \$53,131                      | \$81,740                      | \$57,218           |
| Source Waterbody Flow Information                                            | A12c                | \$12,549                      | \$18,126                      | \$27,886                      | \$19,520           |
| Source Water Baseline Biological Characterization Data                       | A12d                | \$44,044                      | \$63,619                      | \$97,876                      | \$68,513           |
| CWIS Flow Reduction Requirements (Track 1)                                   | A12e                | \$32,144                      | \$42,859                      | \$48,217                      | \$41,073           |
| CWIS Velocity Requirements (Track 1)                                         | A12f                | \$24,736                      | \$32,981                      | \$37,103                      | \$31,607           |
| Design and Construction Technology Plan (Track 1)                            | A12g                | \$14,786                      | \$19,714                      | \$22,179                      | \$18,893           |
| Comprehensive Demonstration Study Plan (Track 2)                             | A12h                | \$15,263                      | \$25,438                      | \$55,963                      | \$32,221           |
| Freshwater Source Water Baseline Biological Characterization Study (Track 2) | A12i                | \$384,669                     | \$384,669                     | \$1,000,138                   | \$589,825          |
| Estuary Source Water Baseline Biological Characterization Study (Track 2)    | A12i                | \$298,709                     | \$398,279                     | \$497,849                     | \$398,279          |
| Profile of Source Water Biota for Characterization Study (Track 2)           | A12i                | \$28,448                      | \$47,414                      | \$104,310                     | \$60,057           |
| Submit Characterization Study (Track 2)                                      | A12i                | \$30,967                      | \$15,483                      | \$46,450                      | \$30,967           |
| <b>NPDES Repermitting Activity Total</b>                                     |                     | <b>\$931,855</b>              | <b>\$1,114,363</b>            | <b>\$2,039,172</b>            | <b>\$1,361,796</b> |
| <b>Annual Activities</b>                                                     |                     |                               |                               |                               |                    |
| Freshwater Verification Study (Track 2)                                      | A2a                 | \$29,520                      | \$7,380                       | \$14,760                      | \$17,220           |
| Estuary Verification Study (Track 2)                                         | A2b                 | \$0                           | \$0                           | \$9,849                       | \$3,283            |
| Initial Biological Monitoring for Impingement (Freshwater)                   | A2c1                | \$272,823                     | \$248,021                     | \$248,021                     | \$256,288          |
| Reduced Biological Monitoring for Impingement (Freshwater)                   | A2c2                | \$777,226                     | \$852,441                     | \$915,121                     | \$848,263          |
| Initial Biological Monitoring for Impingement (Estuary)                      | A2d1                | \$31,520                      | \$63,040                      | \$31,520                      | \$42,027           |
| Reduced Biological Monitoring for Impingement (Estuary)                      | A2d2                | \$176,380                     | \$176,380                     | \$192,414                     | \$181,724          |
| Initial Biological Monitoring for Entrainment (Freshwater)                   | A2e1                | \$448,427                     | \$407,661                     | \$407,661                     | \$421,250          |
| Reduced Biological Monitoring for Entrainment (Freshwater)                   | A2e2                | \$1,269,307                   | \$1,392,144                   | \$1,494,507                   | \$1,385,319        |
| Initial Biological Monitoring for Entrainment (Estuary)                      | A2f1                | \$50,903                      | \$101,806                     | \$50,903                      | \$67,871           |
| Reduced Biological Monitoring for Entrainment (Estuary)                      | A2f2                | \$283,234                     | \$283,234                     | \$308,982                     | \$291,816          |
| Velocity Monitoring                                                          | A2g                 | \$648,329                     | \$694,093                     | \$732,230                     | \$691,551          |
| Visual Inspection of Installed Technologies                                  | A2h                 | \$405,344                     | \$418,419                     | \$431,495                     | \$418,419          |
| Yearly Status Report Activities                                              | A2i                 | \$2,172,838                   | \$2,326,215                   | \$2,454,029                   | \$2,317,694        |
| <b>Annual Activity Yearly Labor Total</b>                                    |                     | <b>\$6,565,850</b>            | <b>\$6,970,833</b>            | <b>\$7,291,492</b>            | <b>\$6,942,725</b> |
| <b>Yearly Labor Total</b>                                                    |                     | <b>\$8,249,608</b>            | <b>\$9,046,914</b>            | <b>\$10,254,776</b>           | <b>\$9,183,766</b> |

**Facility O&M**

|                                                          | Source<br>(Exhibit) | Year 1<br>12/2014-<br>11/2015 | Year 2<br>12/2015-<br>11/2016 | Year 3<br>12/2016-<br>11/2017 | Annual<br>Average  |
|----------------------------------------------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|
| <b>NPDES Application</b>                                 |                     |                               |                               |                               |                    |
| Purchase and Installation of Remote Monitoring Device    | A.1k                | \$310,000                     | \$248,000                     | \$310,000                     | \$289,333          |
| Purchase & Installation of Pilot Study Technology        | A.1j                | \$303,000                     | \$303,000                     | \$303,000                     | \$303,000          |
| Operation & Maintenance of Pilot Technology              | A.1j                | \$34,500                      | \$34,500                      | \$34,500                      | \$34,500           |
| Biological Study Laboratory Analysis (Freshwater)        | A.1i                | \$89,600                      | \$89,600                      | \$89,600                      | \$89,600           |
| Biological Study Laboratory Analysis (Estuary)           | A.1i                | \$0                           | \$58,267                      | \$58,267                      | \$38,844           |
| Pilot Study Entrainment Laboratory Analysis (Freshwater) | A.1j                | \$6,900                       | \$6,900                       | \$6,900                       | \$6,900            |
| Pilot Study Entrainment Laboratory Analysis (Estuary)    | A.1j                | \$0                           | \$0                           | \$0                           | \$0                |
| Other Direct Costs                                       | A.1a-k              | \$31,875                      | \$35,397                      | \$36,842                      | \$34,704           |
| <b>Repermitting</b>                                      |                     |                               |                               |                               |                    |
| Biological Study Laboratory Analysis (Freshwater)        | A.12i               | \$134,500                     | \$134,500                     | \$349,700                     | \$206,233          |
| Biological Study Laboratory Analysis (Estuary)           | A.12i               | \$104,900                     | \$139,867                     | \$174,833                     | \$139,867          |
| Other Direct Costs                                       | A.12a-i             | \$45,015                      | \$59,485                      | \$94,945                      | \$66,482           |
| <b>Annual</b>                                            |                     |                               |                               |                               |                    |
| Operation of Remote Sensing Device                       | A.2f                | \$12,420                      | \$13,570                      | \$14,490                      | \$13,493           |
| Identify & Enumerate Entrained Freshwater Biota          | A.2f                | \$657,000                     | \$702,000                     | \$747,000                     | \$702,000          |
| Identify & Enumerate Entrained Estuary Biota             | A.2f                | \$140,400                     | \$152,100                     | \$152,100                     | \$148,200          |
| Other Direct Costs                                       | A.2a-f              | \$177,583                     | \$187,613                     | \$197,253                     | \$187,483          |
| <b>Equipment Capital Cost Subtotal</b>                   |                     | \$625,420                     | \$564,570                     | \$627,490                     | \$605,827          |
| <b>Equipment O&amp;M Cost Subtotal</b>                   |                     | \$34,500                      | \$34,500                      | \$34,500                      | \$34,500           |
| <b>Laboratory Analysis Subtotal</b>                      |                     | \$1,133,300                   | \$1,283,233                   | \$1,578,400                   | \$1,331,644        |
| <b>Other Direct Costs Subtotal</b>                       |                     | \$254,473                     | \$282,494                     | \$329,039                     | \$288,669          |
| <b>Yearly O&amp;M Total</b>                              |                     | <b>\$2,047,693</b>            | <b>\$2,164,798</b>            | <b>\$2,569,429</b>            | <b>\$2,260,640</b> |

**Exhibit A.10**  
**Costs for the ICR Approval Period Year by Year**  
**for Directors and Federal Government**

**Director Activities**

|                                       | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                       |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| Director Permit Issuance Activities   | A3a                 | \$91,010            | \$86,512            | \$91,010            | \$89,511          |
| Verification Study Review             | A3b                 | \$3,852             | \$963               | \$2,889             | \$2,568           |
| Director Permit Reissuance Activities | A13                 | \$48,577            | \$49,142            | \$90,402            | \$62,707          |
| Annual Director Activities            | A3c                 | \$197,982           | \$211,957           | \$223,603           | \$211,181         |
| <b>Yearly Total</b>                   |                     | <b>\$341,420</b>    | <b>\$348,574</b>    | <b>\$407,904</b>    | <b>\$365,966</b>  |

**Director O&M**

|                                         | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|-----------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                         |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| <b>Start-Up &amp; NPDES Application</b> |                     |                     |                     |                     |                   |
| Other Direct Costs                      | A3a-b               | \$2,290             | \$1,780             | \$2,235             | \$2,102           |
| <b>Annual</b>                           |                     |                     |                     |                     |                   |
| Other Direct Costs                      | A3c                 | \$4,675             | \$5,005             | \$5,280             | \$4,987           |
| <b>Yearly O&amp;M Cost Total</b>        |                     | <b>\$6,965</b>      | <b>\$6,785</b>      | <b>\$7,515</b>      | <b>\$7,088</b>    |

**Federal Labor Activities**

|                                             | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|---------------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                             |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| Federal Permit Program Oversight Activities | A4b                 | 8,366               | 7,697               | 8,366               | \$8,143           |
| <b>Yearly Total</b>                         |                     | <b>\$8,366</b>      | <b>\$7,697</b>      | <b>\$8,366</b>      | <b>\$8,143</b>    |

**Federal O&M**

|                                       | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average |
|---------------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
|                                       |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |
| Federal Permit Program Oversight ODCs | A4a                 | \$330               | \$275               | \$330               | \$312             |
| <b>Yearly Total</b>                   |                     | <b>\$330</b>        | <b>\$275</b>        | <b>\$330</b>        | <b>\$312</b>      |

**Exhibit A.11**
**Summary of the Burden, Respondents, Responses, and  
Costs for the ICR Approval Period by Year and Annual Averages**
**Facilities**

|                            | Source<br>(Exhibit)* | Year 1              | Year 2              | Year 3              | Annual<br>Average   | Three Year<br>Total |
|----------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                            |                      | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                     |                     |
| Burden (hours)             | A7                   | 129,612             | 142,142             | 161,956             | 144,570             | 433,709             |
| Respondents (number)       | A5                   | 92                  | 98                  | 104                 | 98                  | 104                 |
| Responses (number)         | A6                   | 493                 | 541                 | 620                 | 551                 | 1,654               |
| Costs (labor)              | A9                   | \$8,249,608         | \$9,046,914         | \$10,254,776        | \$9,183,766         | \$27,551,297        |
| Costs (capital)            | A9                   | \$625,420           | \$564,570           | \$627,490           | \$605,827           | \$1,817,480         |
| Costs (equipment O&M)      | A9                   | \$34,500            | \$34,500            | \$34,500            | \$34,500            | \$103,500           |
| Costs (lab analysis)       | A9                   | \$1,133,300         | \$1,283,233         | \$1,578,400         | \$1,331,644         | \$3,994,933         |
| Costs (other direct costs) | A9                   | \$254,473           | \$282,494           | \$329,039           | \$288,669           | \$866,006           |
| <b>Total Costs</b>         |                      | <b>\$10,297,300</b> | <b>\$11,211,711</b> | <b>\$12,824,205</b> | <b>\$11,444,405</b> | <b>\$34,333,216</b> |

Non-labor Total \$2,260,640

**Directors**

|                            | Source<br>(Exhibit)* | Year 1              | Year 2              | Year 3              | Annual<br>Average | Three Year<br>Total |
|----------------------------|----------------------|---------------------|---------------------|---------------------|-------------------|---------------------|
|                            |                      | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |                     |
| Burden (hours)             | A8                   | 6,723               | 6,943               | 7,991               | 7,219             | 21,657              |
| Respondents (number)       | A5                   | 47                  | 47                  | 47                  | 47                | 47                  |
| Responses (number)         | A6                   | 444                 | 487                 | 550                 | 494               | 1,481               |
| Costs(labor)               | A10                  | \$341,420           | \$348,574           | \$407,904           | \$365,966         | \$1,097,898         |
| Costs (other direct costs) | A10                  | \$6,965             | \$6,785             | \$7,515             | \$7,088           | \$21,265            |
| <b>Total Costs</b>         |                      | <b>\$348,385</b>    | <b>\$355,359</b>    | <b>\$415,419</b>    | <b>\$373,054</b>  | <b>\$1,119,163</b>  |

**Federal Government**

|                    | Source<br>(Exhibit) | Year 1              | Year 2              | Year 3              | Annual<br>Average | Three Year<br>Total |
|--------------------|---------------------|---------------------|---------------------|---------------------|-------------------|---------------------|
|                    |                     | 12/2014-<br>11/2015 | 12/2015-<br>11/2016 | 12/2016-<br>11/2017 |                   |                     |
| Burden (hours)     | A8                  | 182                 | 167                 | 182                 | 177               | 531                 |
| Costs(labor)       | A10                 | \$8,366             | \$7,697             | \$8,366             | \$8,143           | \$24,429            |
| Costs (O&M)        | A10                 | \$330               | \$275               | \$330               | \$312             | \$935               |
| <b>Total Costs</b> |                     | <b>\$8,696</b>      | <b>\$7,972</b>      | <b>\$8,696</b>      | <b>\$8,455</b>    | <b>\$25,364</b>     |

**Totals for Respondents (Facilities and Directors)\***

|                                                 | Annual<br>Average   | Three Year<br>Total |
|-------------------------------------------------|---------------------|---------------------|
| Total Respondent Burden (hours)                 | 151,789             | 455,366             |
| Total Respondents (number)                      | 145                 | 151                 |
| Total Respondent Labor Costs                    | \$9,549,732         | \$28,649,195        |
| Total Respondent Capital and O&M Cost           | \$2,267,728         | \$6,699,684         |
| <b>Total Respondent Cost for All Activities</b> | <b>\$11,817,460</b> | <b>\$35,452,380</b> |

\* Totals for annual averages may not match exactly due to rounding discrepancies

**Exhibit A.12**  
**Facility Cost and Burden Estimates for NPDES Permit Renewal Activities**

**Exhibit A.12a**  
**Start-up Activities**

| Activity                 | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|--------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                          |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                          | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                          | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Read and Understand Rule | 9                        | 13     | 20     | 42    | 4                             | 4                | 0            | 0                  | 0         | 0            | 0                     | 0        | 8                                               | \$619      | \$0           | \$0       |               | 336                 | \$25,990           |
| Mobilization/Planning    | 9                        | 13     | 20     | 42    | 1                             | 2                | 0            | 0                  | 0         | 0            | 0                     | 0        | 3                                               | \$200      | \$0           | \$0       |               | 126                 | \$8,383            |
| Training                 | 9                        | 13     | 20     | 42    | 1                             | 1                | 0            | 0                  | 0         | 0            | 0                     | 0        | 2                                               | \$155      | \$0           | \$0       |               | 84                  | \$6,497            |
| Other Direct Costs       | 9                        | 13     | 20     | 42    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$55      |               | -                   | \$2,310            |
| Totals                   | 9                        | 13     | 20     | 42    |                               |                  |              |                    |           |              |                       |          | 13                                              | \$973      | \$0           | \$55      | \$1,028       | 546                 | \$43,180           |

**Exhibit A.12b**  
**Permit Application Activities**

| Activity                                       | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Detailed Source Water Body Characterization    | 9                        | 13     | 20     | 42    | 1                             | 5                | 12           | 0                  | 0         | 0            | 0                     | 0        | 18                                              | \$836      | \$0           | \$0       |               | 756                 | \$35,108           |
| Description of CWIS Configuration and Location | 9                        | 13     | 20     | 42    | 0                             | 1                | 1            | 0                  | 0         | 0            | 0                     | 0        | 2                                               | \$87       | \$0           | \$0       |               | 84                  | \$3,641            |
| Facility Water Balance Diagram                 | 9                        | 13     | 20     | 42    | 1                             | 1                | 1            | 0                  | 0         | 0            | 0                     | 0        | 3                                               | \$197      | \$0           | \$0       |               | 126                 | \$8,253            |
| Operational Characteristics Narrative          | 9                        | 13     | 20     | 42    | 12                            | 30               | 0            | 0                  | 0         | 0            | 0                     | 0        | 42                                              | \$2,665    | \$0           | \$0       |               | 1,764               | \$111,913          |
| Submit Materials for Review by State           | 9                        | 13     | 20     | 42    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 3        | 3                                               | \$80       | \$0           | \$0       |               | 126                 | \$3,364            |
| Recordkeeping                                  | 9                        | 13     | 20     | 42    | 1                             | 1                | 1            | 0                  | 0         | 0            | 0                     | 1        | 4                                               | \$223      | \$0           | \$0       |               | 168                 | \$9,374            |
| Other Direct Costs                             | 9                        | 13     | 20     | 42    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$575     |               | -                   | \$24,150           |
| Totals                                         | 9                        | 13     | 20     | 42    |                               |                  |              |                    |           |              |                       |          | 72                                              | \$4,087    | \$0           | \$575     | \$4,662       | 3,024               | \$195,804          |

Water balance diagram is assumed to be taken from the facility design report. The hours reported here are for incorporation of the diagram(s) in the permit.

**Exhibit A.12c**  
**Source Waterbody Flow Information**

| Activity                               | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|----------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                        |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                        | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                        | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Gather Information Characterizing Flow | 9                        | 13     | 20     | 42    | 0                             | 10               | 0            | 0                  | 0         | 0            | 0                     | 0        | 10                                              | \$449      | \$0           | \$0       |               | 420                 | \$18,858           |
| Perform Engineering Calculations       | 9                        | 13     | 20     | 42    | 2                             | 10               | 0            | 0                  | 0         | 0            | 0                     | 0        | 12                                              | \$669      | \$0           | \$0       |               | 504                 | \$28,081           |
| Submit Data and Analysis for Review    | 9                        | 13     | 20     | 42    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 5        | 5                                               | \$134      | \$0           | \$0       |               | 210                 | \$5,607            |
| Recordkeeping                          | 9                        | 13     | 20     | 42    | 0                             | 2                | 0            | 0                  | 0         | 0            | 0                     | 2        | 4                                               | \$143      | \$0           | \$0       |               | 168                 | \$6,014            |
| Other Direct Costs                     | 9                        | 13     | 20     | 42    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$115     |               | -                   | \$4,830            |
| Totals                                 | 9                        | 13     | 20     | 42    |                               |                  |              |                    |           |              |                       |          | 31                                              | \$1,394    | \$0           | \$115     | \$1,509       | 1,302               | \$63,391           |

**Exhibit A.12d**
**Source Water Baseline Biological Characterization Data**

| Activity                                     | Facilities (Respondents) |           |           |           | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |               |              |                | Total Burden (hrs.) | Total Initial Cost |
|----------------------------------------------|--------------------------|-----------|-----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|---------------|--------------|----------------|---------------------|--------------------|
|                                              |                          |           |           |           | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | Capital Costs | O&M Costs    | Total Costs**  | A*B                 | A*(C+D+E)          |
|                                              | Year 1                   | Year 2    | Year 3    | Total     | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |               |              |                |                     |                    |
|                                              | A                        |           |           |           | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C              | D             | E            | C+D+E          | A*B                 | A*(C+D+E)          |
| Identify Available Data and Document Efforts | 9                        | 13        | 20        | 42        | 12                            | 24               | 0            | 0                  | 0         | 0            | 0                     | 2        | 38                                              | \$2,449        | \$0           | \$0          |                | 1,596               | \$102,841          |
| Compile and Analyze Existing Data            | 9                        | 13        | 20        | 42        | 10                            | 18               | 6            | 0                  | 0         | 0            | 0                     | 1        | 35                                              | \$2,184        | \$0           | \$0          |                | 1,470               | \$91,715           |
| Submit Data for Review by State              | 9                        | 13        | 20        | 42        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 2        | 2                                               | \$53           | \$0           | \$0          |                | 84                  | \$2,243            |
| Recordkeeping                                | 9                        | 13        | 20        | 42        | 1                             | 1                | 0            | 0                  | 0         | 0            | 0                     | 2        | 4                                               | \$208          | \$0           | \$0          |                | 168                 | \$8,740            |
| Other Direct Costs                           | 9                        | 13        | 20        | 42        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0            | \$0           | \$860        |                | -                   | \$36,120           |
| <b>Totals</b>                                | <b>9</b>                 | <b>13</b> | <b>20</b> | <b>42</b> |                               |                  |              |                    |           |              |                       |          | <b>79</b>                                       | <b>\$4,894</b> | <b>\$0</b>    | <b>\$860</b> | <b>\$5,754</b> | <b>3,318</b>        | <b>\$241,660</b>   |

**Exhibit A.12e**
**CWIS Flow Reduction Requirements (Track 1)**

| Activity                                         | Facilities (Respondents) |          |          |           | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |               |              |                | Total Burden (hrs.) | Total Initial Cost |
|--------------------------------------------------|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|---------------|--------------|----------------|---------------------|--------------------|
|                                                  |                          |          |          |           | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | Capital Costs | O&M Costs    | Total Costs**  | A*B                 | A*(C+D+E)          |
|                                                  | Year 1                   | Year 2   | Year 3   | Total     | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |               |              |                |                     |                    |
|                                                  | A                        |          |          |           | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C              | D             | E            | C+D+E          | A*B                 | A*(C+D+E)          |
| Develop Narrative                                | 6                        | 8        | 9        | 23        | 8                             | 16               | 0            | 0                  | 0         | 0            | 0                     | 0        | 24                                              | \$1,597        | \$0           | \$0          |                | 552                 | \$36,726           |
| Perform Engineering Calculations                 | 6                        | 8        | 9        | 23        | 4                             | 12               | 0            | 0                  | 0         | 0            | 0                     | 0        | 16                                              | \$978          | \$0           | \$0          |                | 368                 | \$22,494           |
| Document Minimization of Blow Down and Flows Not | 6                        | 8        | 9        | 23        | 0                             | 40               | 0            | 0                  | 0         | 0            | 0                     | 6        | 46                                              | \$1,956        | \$0           | \$0          |                | 1,058               | \$44,993           |
| Submit Data and Analysis for Review              | 6                        | 8        | 9        | 23        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 8        | 8                                               | \$214          | \$0           | \$0          |                | 184                 | \$4,913            |
| Recordkeeping                                    | 6                        | 8        | 9        | 23        | 2                             | 4                | 0            | 0                  | 0         | 0            | 0                     | 8        | 14                                              | \$613          | \$0           | \$0          |                | 322                 | \$14,094           |
| Other Direct Costs                               | 6                        | 8        | 9        | 23        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0            | \$0           | \$460        |                | -                   | \$10,580           |
| <b>Totals</b>                                    | <b>6</b>                 | <b>8</b> | <b>9</b> | <b>23</b> |                               |                  |              |                    |           |              |                       |          | <b>108</b>                                      | <b>\$5,357</b> | <b>\$0</b>    | <b>\$460</b> | <b>\$5,817</b> | <b>2,484</b>        | <b>\$133,800</b>   |

**Exhibit A.12f**
**CWIS Velocity Requirements (Track 1)**

| Activity                            | Facilities (Respondents) |          |          |           | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |                |               |                |                | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------|--------------------------|----------|----------|-----------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|----------------|---------------|----------------|----------------|---------------------|--------------------|
|                                     |                          |          |          |           | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost     | Capital Costs | O&M Costs      | Total Costs**  | A*B                 | A*(C+D+E)          |
|                                     | Year 1                   | Year 2   | Year 3   | Total     | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |                |               |                |                |                     |                    |
|                                     | A                        |          |          |           | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C              | D             | E              | C+D+E          | A*B                 | A*(C+D+E)          |
| Develop Narrative                   | 6                        | 8        | 9        | 23        | 5                             | 10               | 0            | 0                  | 0         | 0            | 0                     | 0        | 15                                              | \$998          | \$0           | \$0            |                | 345                 | \$22,954           |
| Perform Engineering Calculations    | 6                        | 8        | 9        | 23        | 8                             | 32               | 0            | 0                  | 0         | 0            | 0                     | 0        | 40                                              | \$2,315        | \$0           | \$0            |                | 920                 | \$53,250           |
| Submit Data and Analysis for Review | 6                        | 8        | 9        | 23        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 8        | 8                                               | \$214          | \$0           | \$0            |                | 184                 | \$4,913            |
| Revise Based on State review        | 6                        | 8        | 9        | 23        | 1                             | 5                | 0            | 0                  | 0         | 0            | 0                     | 0        | 6                                               | \$334          | \$0           | \$0            |                | 138                 | \$7,689            |
| Recordkeeping                       | 6                        | 8        | 9        | 23        | 1                             | 1                | 0            | 0                  | 0         | 0            | 0                     | 4        | 6                                               | \$262          | \$0           | \$0            |                | 138                 | \$6,015            |
| Other Direct Costs                  | 6                        | 8        | 9        | 23        | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0            | \$0           | \$1,150        |                | -                   | \$26,450           |
| <b>Totals</b>                       | <b>6</b>                 | <b>8</b> | <b>9</b> | <b>23</b> |                               |                  |              |                    |           |              |                       |          | <b>75</b>                                       | <b>\$4,123</b> | <b>\$0</b>    | <b>\$1,150</b> | <b>\$5,273</b> | <b>1,725</b>        | <b>\$121,270</b>   |

**Exhibit A.12g**
**Design and Construction Technology Plan (Track 1)**

| Activity                              | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|---------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                       |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                       | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                       | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Delineate Hydraulic Zone of Influence | 6                        | 8      | 9      | 23    | 1                             | 2                | 2            | 0                  | 0         | 0            | 0                     | 0        | 5                                               | \$283      | \$0           | \$0       |               | 115                 | \$6,514            |
| Develop Narrative Description         | 6                        | 8      | 9      | 23    | 5                             | 10               | 0            | 0                  | 0         | 0            | 0                     | 0        | 15                                              | \$998      | \$0           | \$0       |               | 345                 | \$22,954           |
| Perform Engineering Calculations      | 6                        | 8      | 9      | 23    | 3                             | 12               | 0            | 0                  | 0         | 0            | 0                     | 0        | 15                                              | \$868      | \$0           | \$0       |               | 345                 | \$19,969           |
| Submit Data and Analysis for Review   | 6                        | 8      | 9      | 23    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 3        | 3                                               | \$80       | \$0           | \$0       |               | 69                  | \$1,842            |
| Recordkeeping                         | 6                        | 8      | 9      | 23    | 1                             | 1                | 0            | 0                  | 0         | 0            | 0                     | 3        | 5                                               | \$235      | \$0           | \$0       |               | 115                 | \$5,400            |
| Other Direct Costs                    | 6                        | 8      | 9      | 23    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$55      |               | -                   | \$1,265            |
| Totals                                | 6                        | 8      | 9      | 23    |                               |                  |              |                    |           |              |                       |          | 43                                              | \$2,464    | \$0           | \$55      | \$2,519       | 989                 | \$57,944           |

**Exhibit A.12h**
**Comprehensive Demonstration Study Plan (Track 2)**

| Activity                                                   | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|------------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                            |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                            | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                            | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Description of Historical Studies that will be Used        | 3                        | 5      | 11     | 19    | 6                             | 12               | 0            | 0                  | 0         | 0            | 0                     | 1        | 19                                              | \$1,224    | \$0           | \$0       |               | 361                 | \$23,262           |
| Description of Proposed and/or Implemented Technologies    | 3                        | 5      | 11     | 19    | 2                             | 6                | 0            | 0                  | 0         | 0            | 0                     | 0        | 8                                               | \$489      | \$0           | \$0       |               | 152                 | \$9,291            |
| Develop Baseline Biological Characterization Sampling Plan | 3                        | 5      | 11     | 19    | 12                            | 18               | 2            | 2                  | 0         | 0            | 0                     | 1        | 35                                              | \$2,505    | \$0           | \$0       |               | 665                 | \$47,593           |
| Submit Data and Plans for Review                           | 3                        | 5      | 11     | 19    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 4        | 4                                               | \$107      | \$0           | \$0       |               | 76                  | \$2,029            |
| Revise Based on State Review                               | 3                        | 5      | 11     | 19    | 2                             | 5                | 1            | 0                  | 0         | 0            | 0                     | 1        | 9                                               | \$513      | \$0           | \$0       |               | 171                 | \$9,739            |
| Recordkeeping                                              | 3                        | 5      | 11     | 19    | 1                             | 1                | 1            | 0                  | 0         | 0            | 0                     | 2        | 5                                               | \$250      | \$0           | \$0       |               | 95                  | \$4,748            |
| Other Direct Costs                                         | 3                        | 5      | 11     | 19    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$860     |               | -                   | \$16,340           |
| Totals                                                     | 3                        | 5      | 11     | 19    |                               |                  |              |                    |           |              |                       |          | 80                                              | \$5,088    | \$0           | \$860     | \$5,948       | 1,520               | \$113,003          |

**Exhibit A.12i**
**Source Water Baseline Biological Characterization Study (Track 2)**

| Activity                                              | Facilities (Respondents) |        |        |       | Facility Manager              | Junior Technical | CAD Operator | Contracted Manager | Biologist | Statistician | Biological Technician | Clerical | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|-------------------------------------------------------|--------------------------|--------|--------|-------|-------------------------------|------------------|--------------|--------------------|-----------|--------------|-----------------------|----------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
|                                                       |                          |        |        |       | Assumed Loaded Hourly Rate \$ |                  |              |                    |           |              |                       |          | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                                                       | Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45             | \$42         | \$134              | \$69      | \$90         | \$48                  | \$27     |                                                 |            |               |           |               |                     |                    |
|                                                       | A                        |        |        |       | Level of Effort (hrs)         |                  |              |                    |           |              |                       |          | B                                               | C          | D             | E         | C+D+E         | A*B                 | A*(C+D+E)          |
| Implement Freshwater Sampling                         | 5                        | 5      | 13     | 13    | 2                             | 16               | 0            | 36                 | 1248      | 20           | 1248                  | 10       | 2580                                            | \$153,867  | \$0           | \$0       | \$0           | 29,670              | \$1,769,475        |
| Other Direct Costs for Implement Freshwater Sampling  | 5                        | 5      | 13     | 13    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$3,600   | \$0           | \$41,400            |                    |
| Implement Estuary Sampling                            | 3                        | 4      | 5      | 5     | 3                             | 30               | 0            | 48                 | 2457      | 30           | 2457                  | 15       | 5040                                            | \$298,709  | \$0           | \$0       | \$0           | 20,160              | \$1,194,836        |
| Other Direct Costs for Implement Estuary Sampling     | 3                        | 4      | 5      | 5     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | \$0           | \$9,000   | \$0           | \$36,000            |                    |
| Biological Study Laboratory Analysis (Freshwater)     | 5                        | 5      | 13     | 13    | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | 0             | \$53,800  | \$0           | -                   | \$618,700          |
| Biological Study Laboratory Analysis (Estuary)        | 3                        | 4      | 5      | 5     | 0                             | 0                | 0            | 0                  | 0         | 0            | 0                     | 0        | 0                                               | \$0        | 0             | \$104,900 | \$0           | -                   | \$419,600          |
| Profile of Source Water Biota                         | 3                        | 5      | 11     | 19    | 10                            | 6                | 0            | 10                 | 18        | 0            | 6                     | 2        | 52                                              | \$4,300    | \$0           | \$0       | \$0           | 988                 | \$81,692           |
| Identification of Critical Species                    | 3                        | 5      | 11     | 19    | 10                            | 6                | 0            | 6                  | 12        | 0            | 0                     | 1        | 35                                              | \$3,033    | \$0           | \$0       | \$0           | 665                 | \$57,633           |
| Description of Additional Stresses                    | 3                        | 5      | 11     | 19    | 5                             | 3                | 0            | 5                  | 9         | 0            | 3                     | 1        | 26                                              | \$2,150    | \$0           | \$0       | \$0           | 494                 | \$40,846           |
| Write Study based on Results and Submit for Review by | 4                        | 2      | 6      | 12    | 24                            | 48               | 0            | 5                  | 2         | 2            | 0                     | 2        | 83                                              | \$5,835    | \$0           | \$0       | \$0           | 996                 | \$70,025           |
| Recordkeeping                                         | 4                        | 2      | 6      | 12    | 2                             | 4                | 0            | 2                  | 0         | 0            | 0                     | 7        | 15                                              | \$855      | \$0           | \$0       | \$0           | 180                 | \$10,259           |
| Finalize study based on State review                  | 4                        | 2      | 6      | 12    | 5                             | 10               | 0            | 0                  | 0         | 0            | 0                     | 2        | 17                                              | \$1,051    | \$0           | \$0       | \$0           | 204                 | \$12,617           |
| Freshwater Totals                                     | 13                       |        |        |       |                               |                  |              |                    |           |              |                       |          | 2,808                                           | \$171,092  | \$53,800      | \$3,600   | \$228,492     | 32,287              | \$2,632,008        |
| Marine Totals                                         | 5                        |        |        |       |                               |                  |              |                    |           |              |                       |          | 5,268                                           | \$315,934  | \$104,900     | \$9,000   | \$429,834     | 21,070              | \$1,721,075        |

**Total Burden and Costs for All NPDES Application Activities**

| Facilities (Respondents) |        |        |       | Assumed Loaded Hourly Rate \$ |      |      |       |      |      |      |      | Totals Per Facility for the ICR Approval Period |            |               |           |               | Total Burden (hrs.) | Total Initial Cost |
|--------------------------|--------|--------|-------|-------------------------------|------|------|-------|------|------|------|------|-------------------------------------------------|------------|---------------|-----------|---------------|---------------------|--------------------|
| Year 1                   | Year 2 | Year 3 | Total | \$110                         | \$45 | \$42 | \$134 | \$69 | \$90 | \$48 | \$27 | Burden (hrs)                                    | Labor Cost | Capital Costs | O&M Costs | Total Costs** |                     |                    |
|                          |        |        |       |                               |      |      |       |      |      |      |      |                                                 |            |               |           |               |                     |                    |
| <b>Totals</b>            |        |        |       |                               |      |      |       |      |      |      |      |                                                 |            |               |           |               | <b>68,265</b>       | <b>\$5,323,134</b> |

\* The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

**Exhibit A.13**  
**Director Burden and Cost Estimates for Permit Renewal**

**Exhibit A.13**  
**Director Permit Reissuance Activities**

| Activity                                                                 | Senior<br>Technical           | Junior<br>Technical | Clerical | Burden<br>Per<br>Permit | Labor<br>Cost per<br>Permit | ODCs<br>lump<br>sum* | Total<br>Cost Per<br>Permit |
|--------------------------------------------------------------------------|-------------------------------|---------------------|----------|-------------------------|-----------------------------|----------------------|-----------------------------|
|                                                                          | Assumed Loaded Hourly Rate \$ |                     |          |                         |                             |                      |                             |
|                                                                          | 75                            | 35                  | 29       |                         |                             |                      |                             |
|                                                                          | Level of Effort (hrs)         |                     |          | B                       | C                           | D                    | C+D                         |
| Reviewing CWIS location and design data                                  | 2                             | 5                   | 0        | 7                       | \$322                       |                      |                             |
| Determine Compliance with Source Waterbody Flow Information              | 1                             | 2                   | 0        | 2                       | \$107                       |                      |                             |
| Review Source Water Baseline Biological Characterization Data            | 6                             | 6                   | 0        | 12                      | \$656                       |                      |                             |
| Review Design and Construction Technology Plan (Track 1)                 | 7                             | 2                   | 0        | 10                      | \$621                       |                      |                             |
| Determine Compliance with CWIS Velocity Requirements (Track 1)           | 1                             | 2                   | 0        | 2                       | \$107                       |                      |                             |
| Determine Compliance with CWIS Flow Reduction Requirements (Track 1)     | 2                             | 2                   | 0        | 5                       | \$263                       |                      |                             |
| Review Comprehensive Demonstration Study Plan (Track 2)                  | 5                             | 5                   | 0        | 10                      | \$525                       |                      |                             |
| Review Source Water Baseline Biological Characterization Study (Track 2) | 80                            | 15                  | 0        | 95                      | \$6,497                     |                      |                             |
| Determine Monitoring Frequency                                           | 1                             | 2                   | 0        | 2                       | \$107                       |                      |                             |
| Determine Record keeping and Reporting Frequency                         | 1                             | 2                   | 0        | 2                       | \$107                       |                      |                             |
| Considering Public Comments                                              | 5                             | 5                   | 0        | 10                      | \$525                       |                      |                             |
| Issuing Permit                                                           | 0                             | 2                   | 0        | 2                       | \$94                        |                      |                             |
| Permit Record Keeping                                                    | 0                             | 0                   | 1        | 1                       | \$50                        |                      |                             |
| Totals                                                                   | 110                           | 50                  | 0        | 160                     | \$9,981                     | \$345                | \$10,326                    |
| Track 1 Totals                                                           |                               |                     |          | 55                      | \$2,960                     | \$345                | \$3,305                     |
| Track 2 Totals                                                           |                               |                     |          | 143                     | \$8,991                     | \$345                | \$9,336                     |