

**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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23								B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E			A*B	A*(C+D+E)
Read and Understand Rule	7	7	4	18	12	12	0	0	0	0	0	1	25	\$1,706	\$0	\$0		450	\$30,703		
Mobilization/Planning	7	7	4	18	4	8	0	0	0	0	0	1	13	\$750	\$0	\$0		234	\$13,495		
Training	7	7	4	18	2	2	0	0	0	0	0	1	5	\$304	\$0	\$0		90	\$5,467		
Other Direct Costs	7	7	4	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$55		-	\$990		
<b>Totals</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>18</b>									<b>43</b>	<b>\$2,759</b>	<b>\$0</b>	<b>\$55</b>	<b>\$2,814</b>	<b>774</b>	<b>\$50,654</b>		

**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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23								B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E			A*B	A*(C+D+E)
Detailed Source Water Body Characterization	7	7	4	18	2	16	40	0	0	0	0	0	58	\$2,400	\$0	\$0		1,044	\$43,200		
Description of CWIS Configuration and Location	7	7	4	18	2	5	8	0	0	0	0	0	15	\$713	\$0	\$0		270	\$12,827		
Facility Water Balance Diagram	7	7	4	18	1	1	1	0	0	0	0	0	3	\$179	\$0	\$0		54	\$3,217		
Operational Characteristics Narrative	7	7	4	18	16	40	0	0	0	0	0	0	56	\$3,237	\$0	\$0		1,008	\$58,262		
Submit Materials for Review by State	7	7	4	18	0	0	0	0	0	0	0	6	6	\$140	\$0	\$0		108	\$2,516		
Recordkeeping	7	7	4	18	2	2	2	0	0	0	0	2	8	\$404	\$0	\$0		144	\$7,272		
Other Direct Costs	7	7	4	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$540		-	\$9,720		
<b>Totals</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>18</b>									<b>146</b>	<b>\$7,072</b>	<b>\$0</b>	<b>\$540</b>	<b>\$7,612</b>	<b>2,628</b>	<b>\$137,014</b>		

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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23								B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E			A*B	A*(C+D+E)
Gather Information Characterizing Flow	7	7	4	18	0	32	0	0	0	0	0	0	32	\$1,325	\$0	\$0		576	\$23,846		
Perform Engineering Calculations	7	7	4	18	8	32	0	0	0	0	0	0	40	\$2,115	\$0	\$0		720	\$38,074		
Submit Data and Analysis for Review	7	7	4	18	0	0	0	0	0	0	0	16	16	\$373	\$0	\$0		288	\$6,710		
Recordkeeping	7	7	4	18	0	8	0	0	0	0	0	8	16	\$518	\$0	\$0		288	\$9,317		
Other Direct Costs	7	7	4	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$110		-	\$1,980		
<b>Totals</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>18</b>									<b>104</b>	<b>\$4,330</b>	<b>\$0</b>	<b>\$110</b>	<b>\$4,440</b>	<b>1,872</b>	<b>\$79,927</b>		

Exhibit A.1d

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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)													A*B	A*(C+D+E)
Identify Available Data and Document Efforts	7	7	4	18	40	80	0	0	0	0	0	8	128	\$7,450	\$0	\$0		2,304	\$134,107
Compile and Analyze Existing Data	7	7	4	18	32	60	20	0	0	0	0	4	116	\$6,509	\$0	\$0		2,088	\$117,158
Submit Data for Review by State	7	7	4	18	0	0	0	0	0	0	0	8	8	\$186	\$0	\$0		144	\$3,355
Recordkeeping	7	7	4	18	2	4	1	0	0	0	0	6	13	\$542	\$0	\$0		234	\$9,747
Other Direct Costs	7	7	4	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$810		-	\$14,580
<b>Totals</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>18</b>									<b>265</b>	<b>\$14,687</b>	<b>\$0</b>	<b>\$810</b>	<b>\$15,497</b>	<b>4,770</b>	<b>\$278,948</b>

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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)													A*B	A*(C+D+E)
Develop Narrative	5	5	3	13	8	16	0	0	0	0	0	0	24	\$1,453	\$0	\$0		312	\$18,886
Perform Engineering Calculations	5	5	3	13	4	12	0	0	0	0	0	0	16	\$892	\$0	\$0		208	\$11,596
Document Minimization of Blow Down and Flows Not	5	5	3	13	0	40	0	0	0	0	0	6	46	\$1,796	\$0	\$0		598	\$23,345
Submit Data and Analysis for Review	5	5	3	13	0	0	0	0	0	0	0	8	8	\$186	\$0	\$0		104	\$2,423
Recordkeeping	5	5	3	13	2	4	0	0	0	0	0	8	14	\$550	\$0	\$0		182	\$7,145
Other Direct Costs	5	5	3	13	0	0	0	0	0	0	0	0	0	\$0	\$0	\$435		-	\$5,655
<b>Totals</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>13</b>									<b>108</b>	<b>\$4,877</b>	<b>\$0</b>	<b>\$435</b>	<b>\$5,312</b>	<b>1,404</b>	<b>\$69,051</b>

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 \$								Burden (hrs)	Labor Cost	Capital Costs	O&M Costs	Total Costs**		
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)													A*B	A*(C+D+E)
Develop Narrative	5	5	3	13	16	32	0	0	0	0	0	0	48	\$2,906	\$0	\$0		624	\$37,773
Perform Engineering Calculations	5	5	3	13	8	32	0	0	0	0	0	0	40	\$2,115	\$0	\$0		520	\$27,498
Submit Data and Analysis for Review	5	5	3	13	0	0	0	0	0	0	0	16	16	\$373	\$0	\$0		208	\$4,846
Revise Based on State review	5	5	3	13	4	16	0	0	0	0	0	0	20	\$1,058	\$0	\$0		260	\$13,749
Recordkeeping	5	5	3	13	2	4	0	0	0	0	0	8	14	\$550	\$0	\$0		182	\$7,145
Other Direct Costs	5	5	3	13	0	0	0	0	0	0	0	0	0	\$0	\$0	\$1,080		-	\$14,040
<b>Totals</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>13</b>									<b>138</b>	<b>\$7,001</b>	<b>\$0</b>	<b>\$1,080</b>	<b>\$8,081</b>	<b>1,794</b>	<b>\$105,050</b>

**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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)													A*B	A*(C+D+E)
Delineate Hydraulic Zone of Influence	5	5	3	13	2	5	8	0	0	0	0	0	15	\$713	\$0	\$0		195	\$9,264
Develop Narrative Description	5	5	3	13	16	32	0	0	0	0	0	0	48	\$2,906	\$0	\$0		624	\$37,773
Perform Engineering Calculations	5	5	3	13	6	24	0	0	0	0	0	0	30	\$1,586	\$0	\$0		390	\$20,623
Submit Data and Analysis for Review	5	5	3	13	0	0	0	0	0	0	0	6	6	\$140	\$0	\$0		78	\$1,817
Recordkeeping	5	5	3	13	1	2	0	0	0	0	0	6	9	\$321	\$0	\$0		117	\$4,178
Other Direct Costs	5	5	3	13	0	0	0	0	0	0	0	0	0	\$0	\$0	\$55		-	\$715
<b>Totals</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>13</b>									<b>108</b>	<b>\$5,666</b>	<b>\$0</b>	<b>\$55</b>	<b>\$5,721</b>	<b>1,404</b>	<b>\$74,370</b>

**Exhibit A.1h  
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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)													A*B	A*(C+D+E)
Description of Historical Studies that will be Used	2	2	1	5	20	40	0	0	0	0	0	2	62	\$3,679	\$0	\$0		310	\$18,393
Description of Proposed and/or Implemented Technologies	2	2	1	5	8	20	0	0	0	0	0	0	28	\$1,618	\$0	\$0		140	\$8,092
Develop Baseline Biological Characterization Sampling Plan	2	2	1	5	40	60	8	8	0	0	4	4	120	\$7,840	\$0	\$0		600	\$39,202
Submit Data and Plans for Review	2	2	1	5	0	0	0	0	0	0	0	12	12	\$280	\$0	\$0		60	\$1,398
Revise Based on State Review	2	2	1	5	8	16	4	0	0	0	0	4	32	\$1,700	\$0	\$0		160	\$8,500
Recordkeeping	2	2	1	5	2	4	2	1	0	0	0	8	17	\$752	\$0	\$0		85	\$3,760
Other Direct Costs	2	2	1	5	0	0	0	0	0	0	0	0	0	\$0	\$0	\$810		-	\$4,050
<b>Totals</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>									<b>271</b>	<b>\$15,869</b>	<b>\$0</b>	<b>\$810</b>	<b>\$16,679</b>	<b>1,355</b>	<b>\$83,395</b>

**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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)													A*B	A*(C+D+E)
Implement Freshwater Sampling	5	3	3	8	6	52	0	120	2080	67	2080	34	4439	\$249,183	\$0	\$0		24,415	\$1,370,507
Other Direct Costs for Implement Freshwater Sampling	5	3	3	8	0	0	0	0	0	0	0	0	0	\$0	\$0	\$5,600		-	\$30,800
Implement Estuary Sampling	1	1	1	1	10	101	0	160	4095	100	4095	50	8611	\$477,847	\$0	\$0		8,611	\$477,847
Other Direct Costs for Implement Estuary Sampling	1	1	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0	\$14,100		-	\$14,100
Biological Study Laboratory Analysis (Freshwater)	5	3	3	8	0	0	0	0	0	0	0	0	0	\$0	\$0	\$84,400		-	\$84,400
Biological Study Laboratory Analysis (Estuary)	1	1	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0	\$164,600		-	\$164,600
Profile of Source Water Biota	2	2	1	5	32	20	0	32	60	0	20	8	172	\$12,903	\$0	\$0		860	\$64,514
Identification of Critical Species	2	2	1	5	32	20	0	20	40	0	0	3	115	\$9,116	\$0	\$0		575	\$45,578
Description of Additional Stresses	2	2	1	5	16	10	0	16	30	0	10	4	86	\$6,451	\$0	\$0		430	\$32,257
Write Study based on Results and Submit for Review by	4	1	3	8	80	160	0	16	8	8	0	8	280	\$17,867	\$0	\$0		2,240	\$142,938
Recordkeeping	4	1	3	8	6	12	0	6	0	0	0	24	48	\$2,401	\$0	\$0		384	\$19,210
Finalize study based on State review	4	1	3	8	16	32	0	0	0	0	0	8	56	\$3,092	\$0	\$0		448	\$24,736
<b>Freshwater Totals</b>				<b>8</b>									<b>5,196</b>	<b>\$301,013</b>	<b>\$0</b>	<b>\$90,000</b>	<b>\$391,013</b>	<b>28,595</b>	<b>\$2,142,908</b>
<b>Marine Totals</b>				<b>1</b>									<b>9,368</b>	<b>\$529,677</b>	<b>\$0</b>	<b>\$178,700</b>	<b>\$708,377</b>	<b>9,368</b>	<b>\$708,377</b>

**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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	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	4	1	3	8	80	80	8	0	0	0	0	12	180	\$11,804	\$0	\$0		1,440	\$94,429
Perform Engineering Calculations for Efficacy Projections	4	1	3	8	40	32	0	0	0	0	0	4	76	\$5,370	\$0	\$0		608	\$42,960
Perform Impingement Pilot Study (Freshwater)	4	1	2	7	16	25	0	80	240	40	240	20	661	\$42,290	\$0	\$0		4,627	\$296,029
Perform Entrainment Pilot Study (Freshwater)	4	1	2	7	16	25	0	80	180	40	250	20	611	\$38,914	\$0	\$0		4,277	\$272,397
Pilot Study Entrainment Laboratory Analysis (Freshwater)	4	1	2	7	0	0	0	0	0	0	0	0	0	\$0	\$0	\$6,500		-	\$45,500
Perform Impingement Pilot Study (Estuary)	0	0	1	1	16	33	0	80	312	52	312	26	831	\$51,493	\$0	\$0		831	\$51,493
Perform Entrainment Pilot Study (Estuary)	0	0	1	1	16	33	0	80	234	52	325	26	766	\$47,104	\$0	\$0		766	\$47,104
Pilot Study Entrainment Laboratory Analysis (Estuary)	0	0	1	1	0	0	0	0	0	0	0	0	0	\$0	\$0	\$8,400		-	\$8,400
Purchase & Installation of Pilot Study Technology	4	1	3	8	0	0	0	0	0	0	0	0	0	\$0	\$285,000	\$0		-	\$2,280,000
Operation & Maintenance of Pilot Technology	4	1	3	8	0	0	0	0	0	0	0	0	0	\$0	\$0	\$32,500		-	\$260,000
Submit Data and Analysis for Review	4	1	3	8	8	10	0	8	6	4	0	16	52	\$3,281	\$0	\$0		416	\$26,248
Recordkeeping	4	1	3	8	4	8	0	4	8	2	0	20	46	\$2,363	\$0	\$0		368	\$18,902
Other Direct Costs	4	1	3	8	0	0	0	0	0	0	0	0	0	\$0	\$0	\$1,100		-	\$8,800
<b>Freshwater Totals</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>7</b>									<b>1626</b>	<b>\$104,021</b>	<b>\$285,000</b>	<b>\$40,100</b>	<b>\$429,121</b>	<b>11,382</b>	<b>\$3,003,847</b>
<b>Marine Totals</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>									<b>1,950</b>	<b>\$121,414</b>	<b>\$285,000</b>	<b>\$42,000</b>	<b>\$448,414</b>	<b>1,950</b>	<b>\$448,414</b>

**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**		
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E	A*B	A*(C+D+E)
Develop Verification Monitoring Plan	2	2	1	5	40	60	8	0	0	0	0	4	112	\$6,837	\$0	\$0		560	\$34,186
Submit Data and Analysis for Review	2	2	1	5	0	0	0	0	0	0	0	2	2	\$47	\$0	\$0		10	\$233
Revise Based on State Review	2	2	1	5	2	4	1	0	0	0	0	1	8	\$425	\$0	\$0		40	\$2,125
Recordkeeping	2	2	1	5	1	1	1	1	0	0	0	2	6	\$351	\$0	\$0		30	\$1,754
Other Direct Costs	2	2	1	5	0	0	0	0	0	0	0	0	0	\$0	\$0	\$435		-	\$2,175
<b>Totals</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>									<b>128</b>	<b>\$7,660</b>	<b>\$0</b>	<b>\$435</b>	<b>\$8,095</b>	<b>640</b>	<b>\$40,473</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**		
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	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	5	3	13	0	0	0	0	0	0	0	0	0	\$0	\$58,000	\$0		-	\$754,000
Other Direct Costs	5	5	3	13	0	0	0	0	0	0	0	0	0	\$0	\$0	\$1,100		-	\$14,300
<b>Totals</b>				<b>13</b>									<b>-</b>	<b>\$0</b>	<b>\$58,000</b>	<b>\$1,100</b>	<b>\$59,100</b>	<b>-</b>	<b>\$768,300</b>

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

												Total Burden (hrs.)	Total Initial Cost
<b>Totals</b>												<b>67,936</b>	<b>\$7,990,728</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 AllFacilities in the ICR Approval Period	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45							\$23
	Level of Effort (hrs)										B	C	D	C+D	A*B	A*(C+D)	
Perform Statistical Analysis	2	1	1	4	20	20	10	10	20	0	1	81	\$6,310			324	\$25,241
Submit Monitoring Results & Study Analysis	2	1	1	4	0	0	0	0	0	0	4	4	\$93			16	\$373
Record Keeping	2	1	1	4	1	2	0	0	0	0	4	7	\$275			28	\$1,099
<b>Totals</b>	<b>4</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>\$6,678</b>	<b>\$540</b>	<b>\$7,218</b>	<b>368</b>	<b>\$28,873</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 AllFacilities in the ICR Approval Period	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45							\$23
	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	\$8,562			111	\$8,562
Submit Monitoring Results & Study Analysis	0	0	1	1	0	0	0	0	0	0	4	4	\$93			4	\$93
Record Keeping	0	0	1	1	1	2	0	0	0	0	4	7	\$275			7	\$275
<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>\$8,930</b>	<b>\$540</b>	<b>\$9,470</b>	<b>122</b>	<b>\$9,470</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 AllFacilities in the ICR Approval Period	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45							\$23
	Level of Effort (hrs)										B	C	D	C+D	A*B	A*(C+D)	
Monthly Sample Collection	12	13	14	39	2	0	4	72	0	72	0	150	\$8,497			5,850	\$331,375
Onsite Analysis of Samples	12	13	14	39	4	0	12	72	0	72	0	160	\$9,698			6,240	\$378,206
Perform Statistical Analysis	12	13	14	39	8	4	0	0	32	0	0	44	\$3,503			1,716	\$136,625
Record Keeping	12	13	14	39	2	1	1	4	1	0	16	25	\$1,072			975	\$41,792
<b>Totals</b>	<b>39</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>\$22,769</b>	<b>\$540</b>	<b>\$23,309</b>	<b>14,781</b>	<b>\$909,059</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 AllFacilities in the ICR Approval Period	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45							\$23
	Level of Effort (hrs)										B	C	D	C+D	A*B	A*(C+D)	
Reduced Sample Collection	42	49	54	145	1	0	2	36	0	36	0	75	\$4,248			10,875	\$616,018
Onsite Analysis of Samples	42	49	54	145	2	0	6	36	0	36	0	80	\$4,849			11,600	\$703,076
Perform Statistical Analysis	42	49	54	145	4	2	0	0	16	0	0	22	\$1,752			3,190	\$253,982
Record Keeping	42	49	54	145	1	1	1	2	1	0	8	14	\$659			2,030	\$95,555
<b>Totals</b>	<b>145</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>\$11,508</b>	<b>\$270</b>	<b>\$11,778</b>	<b>27,695</b>	<b>\$1,707,781</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 AllFacilities in the ICR Approval Period	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45							\$23
	Level of Effort (hrs)										B	C	D	C+D	A*B	A*(C+D)	
Monthly Sample Collection	1	2	1	4	2	0	5	94	0	94	0	194	\$10,987			778	\$43,946
Handling and Preparation of Samples	1	2	1	4	4	0	16	94	0	94	0	207	\$12,488			827	\$49,953

December 2011

Renewal of New Facility Rule Information Collection Request

Perform Statistical Analysis	1	2	1	4	8	4	0	0	42	0	0	54	\$4,267			214	\$17,069
Record Keeping	1	2	1	4	2	1	1	5	1	0	16	27	\$1,210			107	\$4,838
<b>Totals</b>				<b>4</b>	<b>16</b>	<b>5</b>	<b>22</b>	<b>192</b>	<b>43</b>	<b>187</b>	<b>16</b>	<b>482</b>	<b>\$28,952</b>	<b>\$705</b>	<b>\$29,657</b>	<b>1,926</b>	<b>\$118,627</b>

**Exhibit A.2d.2**

**Reduced 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	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45	\$23	B	C	D	C+D	A*B	A*(C+D)
					Level of Effort (hrs)												
Reduced Sample Collection	9	9	10	28	1	0	3	47	0	47	0	98	\$5,565			2,744	\$155,823
Handling and Preparation of Samples	9	9	10	28	2	0	8	47	0	47	0	104	\$6,291			2,912	\$176,145
Perform Statistical Analysis	9	9	10	28	4	2	0	0	21	0	0	27	\$2,150			756	\$60,189
Record Keeping	9	9	10	28	1	1	1	3	1	0	8	15	\$723			420	\$20,236
<b>Totals</b>				<b>28</b>	<b>8</b>	<b>3</b>	<b>12</b>	<b>97</b>	<b>22</b>	<b>94</b>	<b>8</b>	<b>244</b>	<b>\$14,728</b>	<b>\$353</b>	<b>\$15,081</b>	<b>6,832</b>	<b>\$422,262</b>

**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	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45	\$23	B	C	D	C+D	A*B	A*(C+D)
					Level of Effort (hrs)												
Biweekly Sample Collection	12	13	14	39	4	0	12	156	0	156	0	328	\$18,795			12,792	\$732,997
Handling and Preparation of Samples	12	13	14	39	4	0	12	78	0	78	0	172	\$10,347			6,708	\$403,549
Perform Statistical Analysis	12	13	14	39	16	4	0	0	64	0	0	84	\$6,841			3,276	\$266,791
Recordkeeping	12	13	14	39	2	1	1	8	2	0	16	30	\$1,406			1,170	\$54,834
<b>Totals</b>				<b>39</b>	<b>26</b>	<b>5</b>	<b>25</b>	<b>242</b>	<b>66</b>	<b>234</b>	<b>16</b>	<b>614</b>	<b>\$37,389</b>	<b>\$1,080</b>	<b>\$38,469</b>	<b>23,946</b>	<b>\$1,500,291</b>

**Exhibit A.2e.2**

**Reduced 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	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$						Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
	A				\$99	\$41	\$125	\$64	\$80	\$45	\$23	B	C	D	C+D	A*B	A*(C+D)
					Level of Effort (hrs)												
Reduced Sample Collection	42	49	54	145	2	0	6	78	0	78	0	164	\$9,397			23,780	\$1,362,623
Handling and Preparation of Samples	42	49	54	145	2	0	6	39	0	39	0	86	\$5,174			12,470	\$750,187
Perform Statistical Analysis	42	49	54	145	8	2	0	0	32	0	0	42	\$3,420			6,090	\$495,958
Recordkeeping	42	49	54	145	1	1	1	4	1	0	8	16	\$786			2,320	\$114,028
<b>Totals</b>				<b>145</b>	<b>13</b>	<b>3</b>	<b>13</b>	<b>121</b>	<b>33</b>	<b>117</b>	<b>8</b>	<b>308</b>	<b>\$18,778</b>	<b>\$540</b>	<b>\$19,318</b>	<b>44,660</b>	<b>\$2,801,096</b>

**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		
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$							Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
					\$99	\$41	\$125	\$64	\$80	\$45	\$23							B
	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	\$23,885			1,688	\$95,540	
Handling and Preparation of Samples	1	2	1	4	4	0	12	101	0	101	0	218	\$12,838			872	\$51,353	
Perform Statistical Analysis	1	2	1	4	16	4	0	0	83	0	0	103	\$8,353			412	\$33,413	
Recordkeeping	1	2	1	4	2	1	1	10	3	0	16	33	\$1,613			132	\$6,452	
<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>\$46,689</b>	<b>\$1,245</b>	<b>\$47,934</b>	<b>3,104</b>	<b>\$191,738</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		
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$							Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
					\$99	\$41	\$125	\$64	\$80	\$45	\$23							B
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)	
Reduced Sample Collection	9	9	10	28	2	0	6	102	0	102	0	212	\$11,997			5,936	\$335,905	
Handling and Preparation of Samples	9	9	10	28	2	0	6	51	0	51	0	110	\$6,473			3,080	\$181,252	
Perform Statistical Analysis	9	9	10	28	8	2	0	0	42	0	0	52	\$4,216			1,456	\$118,059	
Recordkeeping	9	9	10	28	1	1	1	5	2	0	8	18	\$930			504	\$26,032	
<b>Totals</b>					<b>28</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>\$23,616</b>	<b>\$623</b>	<b>\$24,239</b>	<b>10,976</b>	<b>\$678,678</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		
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$							Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
					\$99	\$41	\$125	\$64	\$80	\$45	\$23							B
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)	
Monitor Average Through Technology	64	73	79	216	2	100	0	0	0	0	0	102	\$4,338			22,032	\$936,922	
Analyze Data	64	73	79	216	4	40	0	0	0	0	0	44	\$2,051			9,504	\$443,059	
Recordkeeping	64	73	79	216	1	8	0	0	0	0	8	17	\$616			3,672	\$133,142	
<b>Totals</b>					<b>216</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>\$7,005</b>	<b>\$110</b>	<b>\$7,115</b>	<b>35,208</b>	<b>\$1,536,883</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		
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$							Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost	
					\$99	\$41	\$125	\$64	\$80	\$45	\$23							B
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)	
Visually Inspect All Installed Technologies	23	27	28	78	24	208	0	0	0	0	0	232	\$10,982			18,096	\$856,627	
Recordkeeping	23	27	28	78	3	16	0	0	0	0	2	21	\$1,005			1,638	\$78,421	
<b>Totals</b>					<b>78</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>\$11,988</b>	<b>\$110</b>	<b>\$12,098</b>	<b>19,734</b>	<b>\$943,628</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	
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$125	\$64	\$80	\$45	\$23	Burden (hrs)	Labor Cost	ODCs lump sum*	Total Costs	Burden (hrs.)	Annual Cost
	A																
					Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Report on Inspection and Maintenance	64	73	79	216	16	16	0	0	0	0	0	32	\$2,243			6,912	\$484,531
Detail Velocity Monitoring Results	64	73	79	216	8	16	0	0	0	0	0	24	\$1,453			5,184	\$313,805
Detail Biological Monitoring Results	64	73	79	216	24	32	4	4	24	0	0	88	\$6,363			19,008	\$1,374,365
Compile and Submit Report	64	73	79	216	80	80	0	0	0	0	16	176	\$11,589			38,016	\$2,503,181
Recordkeeping	64	73	79	216	8	12	0	0	0	0	8	28	\$1,474			6,048	\$318,298
<b>Totals</b>				<b>216</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>\$23,121</b>	<b>\$810</b>	<b>\$23,931</b>	<b>75,168</b>	<b>\$5,169,139</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	102,272	2,650	104,922		
Track 1 Freshwater - Reduced	1,263	72,400	1,840	74,240		
Track 1 Estuary	2,022	117,755	2,980	120,735		
Track 1 Estuary - Reduced	1,400	80,459	2,005	82,464		
Track 2 Freshwater	1,849	108,951	3,190	112,141		
Track 2 Freshwater - Reduced	1,355	79,078	2,380	81,458		
Track 2 Estuary	2,144	126,685	3,520	130,205		
Track 2 Estuary - Reduced	1,522	89,388	2,545	91,933		
<b>Totals</b>					<b>264,520</b>	<b>16,017,525</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	41	46	51	138		\$215		\$37,260
Identify & Enumerate Entrained Freshwater Biota	54	62	68	184	\$8,400			\$1,545,600
Identify & Enumerate Entrained Estuary Biota	10	11	11	32	\$11,000			\$352,000
<b>Totals</b>							<b>\$55</b>	<b>\$1,934,860</b>

**Total Cost for All NPDES Application Activities**

	Total Cost (\$)
<b>Totals</b>	<b>\$17,952,385</b>



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

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

Activity	Directors (Responses)	Senior	Junior	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Initial Cost*
		Technical	Technical							
		Assumed Loaded Hourly Rate \$								
		73	40	28						
	<b>A</b>	<b>Level of Effort (hrs)</b>			<b>B</b>	<b>C</b>	<b>D</b>	<b>C+D</b>	<b>A*B</b>	<b>A*(C+D)</b>
Reviewing CWIS location and design data	18	6	18	0	24	\$1,147			432	\$20,650
Determine Compliance with Source Waterbody Flow Information	18	2	6	0	8	\$382			144	\$6,883
Review Source Water Baseline Biological Characterization Data	18	20	20	0	40	\$2,244			720	\$40,392
Review Design and Construction Technology Plan (Track 1)	13	24	8	0	32	\$2,061			416	\$26,790
Determine Compliance with CWIS Velocity Requirements (Track 1)	13	2	6	0	8	\$382			104	\$4,971
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	13	8	8	0	16	\$898			208	\$11,669
Review Comprehensive Demonstration Study Plan (Track 2)	5	16	16	0	32	\$1,795			160	\$8,976
Review Source Water Baseline Biological Characterization Study (Track 2)	8	400	50	0	450	\$31,055			3,600	\$248,440
Review Evaluation of Potential CWIS Effects (Track 2)	8	16	16	0	32	\$1,795			256	\$14,362
Determine Monitoring Frequency	21	2	6	0	8	\$382			168	\$8,030
Determine Record keeping and Reporting Frequency	21	2	6	0	8	\$382			168	\$8,030
Considering Public Comments	21	16	16	0	32	\$1,795			672	\$37,699
Issuing Permit	21	1	6	1	8	\$338			168	\$7,090
Permit Record Keeping	21	1	1	2	4	\$168			84	\$3,528
<b>Totals</b>	<b>21</b>	<b>516</b>	<b>183</b>	<b>3</b>	<b>702</b>	<b>\$44,825</b>	<b>\$325</b>	<b>\$45,150</b>	<b>7,300</b>	<b>\$454,335</b>
<b>Track 1 Totals</b>					<b>188</b>	<b>\$10,180</b>	<b>\$325</b>	<b>\$10,505</b>		

<b>Track 2 Totals</b>		<b>646</b>	<b>\$41,485</b>	<b>\$325</b>	<b>\$41,810</b>	
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**Exhibit A.3b**

**Verification Study Review**

Activity	Directors (Responses)	Senior	Junior	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Initial Cost
		Technical	Technical							
		Assumed Loaded Hourly Rate \$								
	<b>A</b>	<b>73</b>	<b>40</b>	<b>28</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>C+D</b>	<b>A*B</b>	<b>A*(C+D)</b>
		Level of Effort (hrs)								
Review of Verification Studies	5	2	4	0	6	\$303			30	\$1,517
Permit Modification due to Unfavorable Results	5	4	10	0	14	\$686			70	\$3,429
Record Keeping	5	0	0	1	1	\$28			5	\$140
<b>Totals</b>	<b>5</b>	<b>6</b>	<b>14</b>	<b>1</b>	<b>21</b>	<b>\$1,017</b>	<b>\$55</b>	<b>\$1,072</b>	<b>105</b>	<b>\$5,000</b>

**Exhibit A.3c**

**Annual Director Activities**

Activity	Directors (Responses)	Senior	Junior	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Annual Cost
		Technical	Technical							
		Assumed Loaded Hourly Rate \$								
	<b>A</b>	<b>73</b>	<b>40</b>	<b>28</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>C+D</b>	<b>A*B</b>	<b>A*(C+D)</b>
		Level of Effort (hrs)								
Review of Yearly Report	216	6	12	0	18	\$910			3,888	\$196,603
Compliance Tracking	216	4	12	0	16	\$765			3,456	\$165,197
Determination on Monitoring Scope Reduction	216	4	8	0	12	\$607			2,592	\$131,069
Record Keeping	216	1	2	1	4	\$180			864	\$38,794
<b>Totals</b>	<b>216</b>	<b>15</b>	<b>34</b>	<b>1</b>	<b>50</b>	<b>\$2,461</b>	<b>\$55</b>	<b>\$2,516</b>	<b>10,800</b>	<b>\$544,000</b>

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

									Total Burden (hrs.)	Total Initial Cost
<b>Totals</b>									<b>18,100</b>	<b>\$1,003,335</b>

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

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

Activity	Federal (Responses)	Senior Technical	Junior Technical	Clerical	Burden per permit Review	Labor Cost per Permit Review	ODCs lump sum*	Total Cost per Permit Review	Total Burden (hrs.)	Total Initial Cost *
		Assumed Loaded Hourly Rate \$								
		73	40	28						
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	\$152			54	\$2,731
Determine Compliance with Source Waterbody Flow Information	18	1	3	0	4	\$191			72	\$3,442
Review Source Water Baseline Biological Characterization Data	18	1	2	0	3	\$152			54	\$2,731
Review Design and Construction Technology Plan (Track 1)	13	1	3	0	4	\$191			52	\$2,486
Determine Compliance with CWIS Velocity Requirements (Track 1)	13	1	2	0	3	\$152			39	\$1,972
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	13	1	2	0	3	\$152			39	\$1,972
Review Comprehensive Demonstration Study Plan (Track 2)	5	1	2	0	3	\$152			15	\$759
Review Source Water Baseline Biological Characterization Study (Track 2)	8	6	12	0	18	\$910			144	\$7,282
Review Evaluation of Potential CWIS Effects (Track 2)	8	1	2	0	3	\$152			24	\$1,214
Determine Monitoring Frequency	21	1	3	0	4	\$191			84	\$4,015
Permit Record Keeping	21	1	1	2	4	\$168			84	\$3,528
<b>Totals</b>	<b>21</b>	<b>16</b>	<b>34</b>	<b>2</b>	<b>31</b>	<b>1,245</b>	<b>\$55</b>	<b>\$1,300</b>	<b>661</b>	<b>\$33,285</b>
<b>Track 1 Totals</b>					<b>28</b>	<b>\$1,348</b>	<b>\$55</b>	<b>\$1,403</b>		
<b>Track 2 Totals</b>					<b>42</b>	<b>\$2,067</b>	<b>\$55</b>	<b>\$2,122</b>		

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

**Facilities [1]**

	Year 1	Year 2	Year 3	Annual Average
	12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
<b>Initial NPDES Permit Application Activities</b>				
Start-up Activities	7	7	4	6
Permit Application Activities	7	7	4	6
Source Waterbody Flow Information	7	7	4	6
Use Existing Data- Source Water Baseline Biological Characterization Data	7	7	4	6
CWIS Flow Reduction Requirements (Track 1)	5	5	3	4
CWIS Velocity Requirements (Track 1)	5	5	3	4
Design and Construction Technology Plan (Track 1)	5	5	3	4
Comprehensive Demonstration Study Plan (Track 2)	2	2	1	2
Freshwater Source Water Baseline Biological Characterization Study (Track 2)	5	3	3	4
Estuary Source Water Baseline Biological Characterization Study (Track 2)	1	1	1	1
Profile of Source Water Biota for Characterization Study (Track 2)	2	2	1	2
Submit Characterization Study (Track 2)	4	1	3	3
Freshwater Evaluation of Potential CWIS Effects (Track 2)	4	1	2	2
Estuary Evaluation of Potential CWIS Effects (Track 2)	0	0	1	0
Verification Monitoring Plan (Track 2)	2	2	1	2
<b>NPDES Repermitting Activities</b>				
Start-up Activities	12	13	13	13
Permit Application Activities	12	13	13	13
Source Waterbody Flow Information	12	13	13	13
Source Water Baseline Biological Characterization Data	12	13	13	13
CWIS Flow Reduction Requirements (Track 1)	5	10	8	8
CWIS Velocity Requirements (Track 1)	5	10	8	8
Design and Construction Technology Plan (Track 1)	5	10	8	8
Comprehensive Demonstration Study Plan (Track 2)	7	3	5	5
Freshwater Source Water Baseline Biological Characterization Study (Track 2)	8	8	7	8
Estuary Source Water Baseline Biological Characterization Study (Track 2)	4	3	3	3
Profile of Source Water Biota for Characterization Study (Track 2)	7	3	5	5
Submit Characterization Study (Track 2)	4	6	5	5
<b>Annual</b>				
Freshwater Verification Study (Track 2)	2	1	1	1
Estuary Verification Study (Track 2)	0	0	1	0
Initial Biological Monitoring for Impingement (Freshwater)	12	13	14	13
Reduced Biological Monitoring for Impingement (Freshwater)	42	49	54	48
Initial Biological Monitoring for Impingement (Estuary)	1	2	1	1
Reduced Biological Monitoring for Impingement (Estuary)	9	9	10	9
Initial Biological Monitoring for Entrainment (Freshwater)	12	13	14	13
Reduced Biological Monitoring for Entrainment (Freshwater)	42	49	54	48
Initial Biological Monitoring for Entrainment (Estuary)	1	2	1	1
Reduced Biological Monitoring for Entrainment (Estuary)	9	9	10	9
Velocity Monitoring	64	73	79	72
Visual Inspection of Installed Technologies	23	27	28	26
Yearly Status Report Activities	64	73	79	72
<b>Respondents</b>	<b>75</b>	<b>82</b>	<b>86</b>	<b>81</b>

**Directors [2]**

	Year 1	Year 2	Year 3	Annual Average
	12/2011-11/2012	12/2012-11/2013	12/2013-11/2014	
<b>Director Permit Issuance Activities</b>				
Reviewing Facility General Permit Application Information	7	7	4	6
Review Source Water Baseline Biological Characterization Data	7	7	4	6
Determine Compliance with Source Waterbody Flow Information	7	7	4	6
Review Design and Construction Technology Plan (Track 1)	5	5	3	4
Determine Compliance with CWIS Velocity Requirements (Track 1)	5	5	3	4
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	5	5	3	4
Review Comprehensive Demonstration Study Plan (Track 2)	2	2	1	2
Review Source Water Baseline Biological Characterization Study (Track 2)	4	1	3	3
Review Evaluation of Potential CWIS Effects (Track 2)	4	1	3	3
Determining Facility Requirements and Issuing Permit	9	6	6	7
Verification Study Review	2	1	2	2
<b>Director Permit Reissuance Activities</b>				
Reviewing Facility General Permit Application Information	12	13	13	13
Review Source Water Baseline Biological Characterization Data	12	13	13	13
Determine Compliance with Source Waterbody Flow Information	12	13	13	13
Review Design and Construction Technology Plan (Track 1)	5	10	8	8
Determine Compliance with CWIS Velocity Requirements (Track 1)	5	10	8	8
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	5	10	8	8
Review Comprehensive Demonstration Study Plan (Track 2)	7	3	5	5
Review Source Water Baseline Biological Characterization Study (Track 2)	4	6	5	5
Determining Facility Requirements and Issuing Permit	5	18	20	14
<b>Annual Director Activities</b>				
Review of Yearly Report	64	73	79	72
Compliance Tracking	64	73	79	72
Determination on Monitoring Scope Reduction	64	73	79	72
Record Keeping	64	73	79	72
<b>Respondents</b>	<b>75</b>	<b>82</b>	<b>86</b>	<b>81</b>

**Sum for Facilities and Directors**

	Year 1	Year 2	Year 3	Annual Average
	12/2011-11/2012	12/2012-11/2013	12/2013-11/2014	
<b>Facilities</b>	75	82	86	81
<b>Directors</b>	75	82	86	81
<b>Yearly Total*</b>	<b>150</b>	<b>164</b>	<b>172</b>	<b>162</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 Average
	12/2011-11/2012	12/2012-11/2013	12/2013-11/2014	
<b>Initial Permitting</b>				
Start-up Activities	7	7	4	6
Permit Application Activities	7	7	4	6
Source Waterbody Flow Information	7	7	4	6
Use Existing Data- Source Water Baseline Biological Characterization Data	7	7	4	6
CWIS Flow Reduction Requirements (Track 1)	5	5	3	4
CWIS Velocity Requirements (Track 1)	5	5	3	4
Design and Construction Technology Plan (Track 1)	5	5	3	4
Comprehensive Demonstration Study Plan (Track 2)	2	2	1	2
Freshwater Source Water Baseline Biological Characterization Study (Track 2)	5	3	3	4
Estuary Source Water Baseline Biological Characterization Study (Track 2)	1	1	1	1
Profile of Source Water Biota for Characterization Study (Track 2)	2	2	1	2
Submit Characterization Study (Track 2)	4	1	3	3
Freshwater Evaluation of Potential CWIS Effects (Track 2)	4	1	2	2
Estuary Evaluation of Potential CWIS Effects (Track 2)	0	0	1	0
Verification Monitoring Plan (Track 2)	2	2	1	2
<b>NPDES Repermitting Activities</b>	0	0	0	0
Start-up Activities	12	13	13	13
Permit Application Activities	12	13	13	13
Source Waterbody Flow Information	12	13	13	13
Source Water Baseline Biological Characterization Data	12	13	13	13
CWIS Flow Reduction Requirements (Track 1)	5	10	8	8
CWIS Velocity Requirements (Track 1)	5	10	8	8
Design and Construction Technology Plan (Track 1)	5	10	8	8
Comprehensive Demonstration Study Plan (Track 2)	7	3	5	5
Freshwater Source Water Baseline Biological Characterization Study (Track 2)	8	8	7	8
Estuary Source Water Baseline Biological Characterization Study (Track 2)	4	3	3	3
Profile of Source Water Biota for Characterization Study (Track 2)	7	3	5	5
Submit Characterization Study (Track 2)	4	6	5	5
<b>Annual</b>	0	0	0	0
Freshwater Verification Study (Track 2)	2	1	1	1
Estuary Verification Study (Track 2)	0	0	1	0
Initial Biological Monitoring for Impingement (Freshwater)	12	13	14	13
Reduced Biological Monitoring for Impingement (Freshwater)	42	49	54	48
Initial Biological Monitoring for Impingement (Estuary)	1	2	1	1
Reduced Biological Monitoring for Impingement (Estuary)	9	9	10	9
Initial Biological Monitoring for Entrainment (Freshwater)	12	13	14	13
Reduced Biological Monitoring for Entrainment (Freshwater)	42	49	54	48
Initial Biological Monitoring for Entrainment (Estuary)	1	2	1	1
Reduced Biological Monitoring for Entrainment (Estuary)	9	9	10	9
Velocity Monitoring	64	73	79	72
Visual Inspection of Installed Technologies	23	27	28	26
Yearly Status Report Activities	64	73	79	72
<b>Responses</b>	<b>437</b>	<b>480</b>	<b>485</b>	<b>467</b>

**Directors**

	Year 1	Year 2	Year 3	Annual Average
	12/2011-11/2012	12/2012-11/2013	12/2013-11/2014	
<b>Director Permit Issuance Activities</b>				
Reviewing Facility General Permit Application Information	7	7	4	6
Review Source Water Baseline Biological Characterization Data	7	7	4	6
Determine Compliance with Source Waterbody Flow Information	7	7	4	6
Review Design and Construction Technology Plan (Track 1)	5	5	3	4
Determine Compliance with CWIS Velocity Requirements (Track 1)	5	5	3	4
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	5	5	3	4
Review Comprehensive Demonstration Study Plan (Track 2)	2	2	1	2
Review Source Water Baseline Biological Characterization Study (Track 2)	4	1	3	3
Review Evaluation of Potential CWIS Effects (Track 2)	4	1	3	3
Determining Facility Requirements and Issuing Permit	9	6	6	7
Verification Study Review	2	1	2	2
<b>Director Permit Reissuance Activities</b>				
Reviewing Facility General Permit Application Information	12	13	13	13
Review Source Water Baseline Biological Characterization Data	12	13	13	13
Determine Compliance with Source Waterbody Flow Information	12	13	13	13
Review Design and Construction Technology Plan (Track 1)	5	10	8	8
Determine Compliance with CWIS Velocity Requirements (Track 1)	5	10	8	8
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	5	10	8	8
Review Comprehensive Demonstration Study Plan (Track 2)	7	3	5	5
Review Source Water Baseline Biological Characterization Study (Track 2)	4	6	5	5
Determining Facility Requirements and Issuing Permit	5	18	20	14
<b>Annual Director Activities</b>				
Review of Yearly Report	64	73	79	72
Compliance Tracking	64	73	79	72
Determination on Monitoring Scope Reduction	64	73	79	72
Record Keeping	64	73	79	72
<b>Responses</b>	380	435	445	420

**Sum for Facilities and Directors**

	Year 1	Year 2	Year 3	Annual Average
	12/2011-11/2012	12/2012-11/2013	12/2013-11/2014	
<b>Facilities</b>	437	480	485	467
<b>Directors</b>	380	435	445	420
<b>Yearly Total*</b>	<b>817</b>	<b>915</b>	<b>930</b>	<b>887</b>

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

**Facility Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
<b>NPDES Permit Application Activities</b>					
Start-up Activities	A1a	301	301	172	258
Permit Application Activities	A1b	1,022	1,022	584	876
Source Waterbody Flow Information	A1c	728	728	416	624
Use Existing Data- Source Water Baseline Biological Characterization Data	A1d	1,855	1,855	1,060	1,590
CWIS Flow Reduction Requirements (Track 1)	A1e	540	540	324	468
CWIS Velocity Requirements (Track 1)	A1f	690	690	414	598
Design and Construction Technology Plan (Track 1)	A1g	540	540	324	468
Comprehensive Demonstration Study Plan (Track 2)	A1h	542	542	271	452
Freshwater Source Water Baseline Biological Characterization Study (Track 2)	A1i	11,098	6,659	6,659	8,138
Estuary Source Water Baseline Biological Characterization Study (Track 2)	A1i	2,870	2,870	2,870	2,870
Profile of Source Water Biota for Characterization Study (Track 2)	A1i	746	746	373	622
Submit Characterization Study (Track 2)	A1i	1,536	384	1,152	1,024
Freshwater Evaluation of Potential CWIS Effects (Track 2)	A1j	6,504	1,626	3,252	3,794
Estuary Evaluation of Potential CWIS Effects (Track 2)	A1j	0	0	1,950	650
Verification Monitoring Plan (Track 2)	A1k	256	256	128	213
<b>NPDES Permit Application Activity Total</b>		<b>28,972</b>	<b>18,503</b>	<b>17,871</b>	<b>21,782</b>
<b>NPDES Repermitting Activities</b>					
Start-up Activities	A12a	156	169	169	165
Permit Application Activities	A12b	864	936	936	912
Source Waterbody Flow Information	A12c	372	403	403	393
Source Water Baseline Biological Characterization Data	A12d	948	1,027	1,027	1,001
CWIS Flow Reduction Requirements (Track 1)	A12e	540	1,080	864	828
CWIS Velocity Requirements (Track 1)	A12f	375	750	600	575
Design and Construction Technology Plan (Track 1)	A12g	215	430	344	330
Comprehensive Demonstration Study Plan (Track 2)	A12h	560	240	400	400
Freshwater Source Water Baseline Biological Characterization Study (Track 2)	A12i	10,320	10,320	9,030	9,890
Estuary Source Water Baseline Biological Characterization Study (Track 2)	A12i	6,720	5,040	5,040	5,600
Profile of Source Water Biota for Characterization Study (Track 2)	A12i	791	339	565	565
Submit Characterization Study (Track 2)	A12i	460	690	575	575
<b>NPDES Repermitting Activity Total</b>		<b>22,321</b>	<b>21,424</b>	<b>19,953</b>	<b>21,233</b>
<b>Annual Activities</b>					
Freshwater Verification Study (Track 2)	A2a	184	92	92	123
Estuary Verification Study (Track 2)	A2b	0	0	122	41
Initial Biological Monitoring for Impingement (Freshwater)	A2c1	4,548	4,927	5,306	4,927
Reduced Biological Monitoring for Impingement (Freshwater)	A2c2	8,022	9,359	10,314	9,232
Initial Biological Monitoring for Impingement (Estuary)	A2d1	482	963	482	642
Reduced Biological Monitoring for Impingement (Estuary)	A2d2	2,196	2,196	2,440	2,277
Initial Biological Monitoring for Entrainment (Freshwater)	A2e1	7,368	7,982	8,596	7,982
Reduced Biological Monitoring for Entrainment (Freshwater)	A2e2	12,936	15,092	16,632	14,887
Initial Biological Monitoring for Entrainment (Estuary)	A2f1	776	1,552	776	1,035
Reduced Biological Monitoring for Entrainment (Estuary)	A2f2	3,528	3,528	3,920	3,659
Velocity Monitoring	A2g	10,432	11,899	12,877	11,736
Visual Inspection of Installed Technologies	A2h	5,819	6,831	7,084	6,578
Yearly Status Report Activities	A2i	22,272	25,404	27,492	25,056
<b>Annual Activity Yearly Labor Total</b>		<b>78,563</b>	<b>89,825</b>	<b>96,133</b>	<b>88,173</b>
<b>Yearly Labor Total</b>		<b>129,855</b>	<b>129,752</b>	<b>133,956</b>	<b>131,188</b>



**Exhibit A.8**

**Hourly Burden for the ICR Approval Period Year by Year  
for Directors and Federal Government**

**Director Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
Director Permit Issuance Activities	A3a	3,316	1,690	2,294	2,433
Verification Study Review	A3b	42	21	42	35
Director Permit Reissuance Activities	A13	872	1,349	1,274	1,165
Annual Director Activities	A3c	3,200	3,650	3,950	3,600
<b>Yearly Total</b>		<b>7,430</b>	<b>6,710</b>	<b>7,560</b>	<b>7,233</b>

**Federal Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
Federal Permit Program Oversight Activities	A4a	282	195	184	220
<b>Yearly Total</b>		<b>282</b>	<b>195</b>	<b>184</b>	<b>220</b>

**Exhibit A.9**

**Costs for the ICR Approval Period Year by Year for Facilities**

**Facility Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
<b>NPDES Permit Application Activities</b>					
Start-up Activities	A1a	\$19,314	\$19,314	\$11,036	\$16,555
Permit Application Activities	A1b	\$49,503	\$49,503	\$28,288	\$42,431
Source Waterbody Flow Information	A1c	\$30,313	\$30,313	\$17,322	\$25,982
Use Existing Data- Source Water Baseline Biological Characterization					
Data	A1d	\$102,810	\$102,810	\$58,748	\$88,123
CWIS Flow Reduction Requirements (Track 1)	A1e	\$24,383	\$24,383	\$14,630	\$21,132
CWIS Velocity Requirements (Track 1)	A1f	\$35,004	\$35,004	\$21,002	\$30,337
Design and Construction Technology Plan (Track 1)	A1g	\$28,329	\$28,329	\$16,997	\$24,552
Comprehensive Demonstration Study Plan (Track 2)	A1h	\$31,738	\$31,738	\$15,869	\$26,448
Freshwater Source Water Baseline Biological Characterization Study					
(Track 2)	A1i	\$622,958	\$373,775	\$373,775	\$456,836
Estuary Source Water Baseline Biological Characterization Study (Track					
2)	A1i	\$159,282	\$159,282	\$159,282	\$159,282
Profile of Source Water Biota for Characterization Study (Track 2)	A1i	\$56,939	\$56,939	\$28,470	\$47,450
Submit Characterization Study (Track 2)	A1i	\$93,442	\$23,360	\$70,081	\$62,294
Freshwater Evaluation of Potential CWIS Effects (Track 2)	A1j	\$416,084	\$104,021	\$208,042	\$242,716
Estuary Evaluation of Potential CWIS Effects (Track 2)	A1j	\$0	\$0	\$121,414	\$40,471
Verification Monitoring Plan (Track 2)	A1k	\$15,319	\$15,319	\$7,660	\$12,766
<b>NPDES Permit Application Activity Total</b>		<b>\$1,685,417</b>	<b>\$1,054,090</b>	<b>\$1,152,616</b>	<b>\$1,297,375</b>
<b>NPDES Repermitting Activities</b>					
Start-up Activities	A12a	\$10,591	\$11,474	\$11,474	\$11,180
Permit Application Activities	A12b	\$44,711	\$48,437	\$48,437	\$47,195
Source Waterbody Flow Information	A12c	\$15,258	\$16,530	\$16,530	\$16,106
Source Water Baseline Biological Characterization Data	A12d	\$53,360	\$57,807	\$57,807	\$56,325
CWIS Flow Reduction Requirements (Track 1)	A12e	\$24,383	\$48,766	\$39,013	\$37,387
CWIS Velocity Requirements (Track 1)	A12f	\$18,744	\$37,488	\$29,990	\$28,741
Design and Construction Technology Plan (Track 1)	A12g	\$11,199	\$22,398	\$17,918	\$17,172
Comprehensive Demonstration Study Plan (Track 2)	A12h	\$32,380	\$13,877	\$23,129	\$23,129
Freshwater Source Water Baseline Biological Characterization Study					
(Track 2)	A12i	\$569,431	\$569,431	\$498,252	\$545,705
Estuary Source Water Baseline Biological Characterization Study (Track					
2)	A12i	\$368,518	\$276,388	\$276,388	\$307,098
Profile of Source Water Biota for Characterization Study (Track 2)	A12i	\$60,923	\$26,110	\$43,517	\$43,517
Submit Characterization Study (Track 2)	A12i	\$28,201	\$42,302	\$35,252	\$35,252
<b>NPDES Repermitting Activity Total</b>		<b>\$1,237,699</b>	<b>\$1,171,007</b>	<b>\$1,097,706</b>	<b>\$1,168,804</b>
<b>Annual Activities</b>					
Freshwater Verification Study (Track 2)	A2a	\$13,357	\$6,678	\$6,678	\$8,904
Estuary Verification Study (Track 2)	A2b	\$0	\$0	\$8,930	\$2,977
Initial Biological Monitoring for Impingement (Freshwater)	A2c1	\$273,230	\$296,000	\$318,769	\$296,000
Reduced Biological Monitoring for Impingement (Freshwater)	A2c2	\$483,328	\$563,882	\$621,421	\$556,210
Initial Biological Monitoring for Impingement (Estuary)	A2d1	\$28,952	\$57,904	\$28,952	\$38,602
Reduced Biological Monitoring for Impingement (Estuary)	A2d2	\$132,555	\$132,555	\$147,283	\$137,464
Initial Biological Monitoring for Entrainment (Freshwater)	A2e1	\$448,668	\$486,057	\$523,446	\$486,057
Reduced Biological Monitoring for Entrainment (Freshwater)	A2e2	\$788,672	\$920,117	\$1,014,007	\$907,599
Initial Biological Monitoring for Entrainment (Estuary)	A2f1	\$46,689	\$93,379	\$46,689	\$62,253
Reduced Biological Monitoring for Entrainment (Estuary)	A2f2	\$212,544	\$212,544	\$236,160	\$220,416
Velocity Monitoring	A2g	\$448,333	\$511,380	\$553,411	\$504,374
Visual Inspection of Installed Technologies	A2h	\$275,719	\$323,671	\$335,658	\$311,683
Yearly Status Report Activities	A2i	\$1,479,757	\$1,687,848	\$1,826,575	\$1,664,726
<b>Annual Activity Yearly Labor Total</b>		<b>\$4,631,803</b>	<b>\$5,292,013</b>	<b>\$5,667,979</b>	<b>\$5,197,265</b>
<b>Yearly Labor Total</b>		<b>\$7,554,920</b>	<b>\$7,517,110</b>	<b>\$7,918,301</b>	<b>\$7,663,444</b>

**Facility O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
<b>NPDES Application</b>					
Purchase and Installation of Remote Monitoring Device	A.1k	\$290,000	\$290,000	\$174,000	\$251,333
Purchase & Installation of Pilot Study Technology	A.1j	\$1,140,000	\$285,000	\$855,000	\$760,000
Operation & Maintenance of Pilot Technology	A.1j	\$130,000	\$32,500	\$97,500	\$86,667
Biological Study Laboratory Analysis (Freshwater)	A.1i	\$211,000	\$126,600	\$126,600	\$154,733
Biological Study Laboratory Analysis (Estuary)	A.1i	\$54,867	\$54,867	\$54,867	\$54,867
Pilot Study Entrainment Laboratory Analysis (Freshwater)	A.1j	\$26,000	\$6,500	\$13,000	\$15,167
Pilot Study Entrainment Laboratory Analysis (Estuary)	A.1j	\$0	\$0	\$8,400	\$2,800
Other Direct Costs	A.1a-k	\$49,545	\$40,645	\$31,715	\$40,635
<b>Repermitting</b>					
Biological Study Laboratory Analysis (Freshwater)	A.12i	\$202,400	\$202,400	\$177,100	\$193,967
Biological Study Laboratory Analysis (Estuary)	A.12i	\$131,600	\$98,700	\$98,700	\$109,667
Other Direct Costs	A.12a-i	\$56,500	\$59,825	\$56,605	\$57,643
<b>Annual</b>					
Operation of Remote Sensing Device	A.2f	\$8,815	\$9,890	\$10,965	\$9,890
Identify & Enumerate Entrained Freshwater Biota	A.2f	\$453,600	\$520,800	\$571,200	\$515,200
Identify & Enumerate Entrained Estuary Biota	A.2f	\$110,000	\$121,000	\$121,000	\$117,333
Other Direct Costs	A.2a-f	\$128,930	\$146,625	\$157,765	\$144,440
<b>Equipment Capital Cost Subtotal</b>		\$1,438,815	\$584,890	\$1,039,965	\$1,021,223
<b>Equipment O&amp;M Cost Subtotal</b>		\$130,000	\$32,500	\$97,500	\$86,667
<b>Laboratory Analysis Subtotal</b>		\$1,189,467	\$1,130,867	\$1,170,867	\$1,163,733
<b>Other Direct Costs Subtotal</b>		\$234,975	\$247,095	\$246,085	\$242,718
<b>Yearly O&amp;M Total</b>		<b>\$2,993,257</b>	<b>\$1,995,352</b>	<b>\$2,554,417</b>	<b>\$2,514,342</b>

**Exhibit A.10**

**Costs for the ICR Approval Period Year by Year  
for Directors and Federal Government**

**Director Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
Director Permit Issuance Activities	A3a	\$205,701	\$97,953	\$143,856	\$149,170
Verification Study Review	A3b	\$2,034	\$1,017	\$2,034	\$1,695
Director Permit Reissuance Activities	A13	\$52,598	\$81,360	\$75,864	\$69,941
Annual Director Activities	A3c	\$157,530	\$179,682	\$194,451	\$177,221
<b>Yearly Total</b>		<b>\$417,863</b>	<b>\$360,013</b>	<b>\$416,205</b>	<b>\$398,027</b>

**Director O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
<b>Start-Up &amp; NPDES Application</b>					
Other Direct Costs	A3a-b	\$3,035	\$2,005	\$2,060	\$2,367
<b>Annual</b>					
Other Direct Costs	A3c	\$3,520	\$4,015	\$4,345	\$3,960
<b>Yearly O&amp;M Cost Total</b>		<b>\$6,555</b>	<b>\$6,020</b>	<b>\$6,405</b>	<b>\$6,327</b>

**Federal Labor Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
Federal Permit Program Oversight Activities	A4b	13,719	9,456	8,955	\$10,710
<b>Yearly Total</b>		<b>\$13,719</b>	<b>\$9,456</b>	<b>\$8,955</b>	<b>\$10,710</b>

**Federal O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		12/2011- 11/2012	12/2012- 11/2013	12/2013- 11/2014	
Federal Permit Program Oversight ODCs	A4a	\$495	\$330	\$330	\$385
<b>Yearly Total</b>		<b>\$495</b>	<b>\$330</b>	<b>\$330</b>	<b>\$385</b>

**Exhibit A.11**

**Summary of the Burden, Respondents, Responses, and Costs for the ICR Approval Period by Year and Annual Averages**

**Facilities**

	Source (Exhibit)*	Year 1	Year 2	Year 3	Annual Average	Three Year Total
		12/2011-11/2012	12/2012-11/2013	12/2013-11/2014		
Burden (hours)	A7	129,855	129,752	133,956	131,188	393,564
Respondents (number)	A5	75	82	86	81	86
Responses (number)	A6	437	480	485	467	1,402
Costs (labor)	A9	\$7,554,920	\$7,517,110	\$7,918,301	\$7,663,444	\$22,990,331
Costs (capital)	A9	\$1,438,815	\$584,890	\$1,039,965	\$1,021,223	\$3,063,670
Costs (equipment O&M)	A9	\$130,000	\$32,500	\$97,500	\$86,667	\$260,000
Costs (lab analysis)	A9	\$1,189,467	\$1,130,867	\$1,170,867	\$1,163,733	\$3,491,200
Costs (other direct costs)	A9	\$234,975	\$247,095	\$246,085	\$242,718	\$728,155
<b>Total Costs</b>		<b>\$10,548,177</b>	<b>\$9,512,462</b>	<b>\$10,472,717</b>	<b>\$10,177,785</b>	<b>\$30,533,356</b>

**Directors**

	Source (Exhibit)*	Year 1	Year 2	Year 3	Annual Average	Three Year Total
		12/2011-11/2012	12/2012-11/2013	12/2013-11/2014		
Burden (hours)	A8	7,430	6,710	7,560	7,233	21,700
Respondents (number)	A5	47	47	47	47	47
Responses (number)	A6	380	435	445	420	1,260
Costs(labor)	A10	\$417,863	\$360,013	\$416,205	\$398,027	\$1,194,081
Costs (other direct costs)	A10	\$6,555	\$6,020	\$6,405	\$6,327	\$18,980
<b>Total Costs</b>		<b>\$424,418</b>	<b>\$366,033</b>	<b>\$422,610</b>	<b>\$404,354</b>	<b>\$1,213,061</b>

**Federal Government**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total
		12/2011-11/2012	12/2012-11/2013	12/2013-11/2014		
Burden (hours)	A8	282	195	184	220	661
Costs(labor)	A10	\$13,719	\$9,456	\$8,955	\$10,710	\$32,130
Costs (O&M)	A10	\$495	\$330	\$330	\$385	\$1,155
<b>Total Costs</b>		<b>\$14,214</b>	<b>\$9,786</b>	<b>\$9,285</b>	<b>\$11,095</b>	<b>\$33,285</b>

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

	Annual Average	Three Year Total
Total Respondent Burden (hours)	138,421	415,264
Total Respondents (number)	128	133
Total Respondent Labor Costs	\$8,061,471	\$24,184,412
Total Respondent Capital and O&M Cost	\$2,520,668	\$7,302,005
<b>Total Respondent Cost for All Activities</b>	<b>\$10,582,139</b>	<b>\$31,746,417</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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23							
	A				Level of Effort (hrs)								B	C	D	E	C+D+E		
Read and Understand Rule	12	13	13	38	4	4	0	0	0	0	0	0	8	\$561	\$0	\$0		304	\$21,310
Mobilization/Planning	12	13	13	38	1	2	0	0	0	0	0	0	3	\$182	\$0	\$0		114	\$6,901
Training	12	13	13	38	1	1	0	0	0	0	0	0	2	\$140	\$0	\$0		76	\$5,328
Other Direct Costs	12	13	13	38	0	0	0	0	0	0	0	0	0	\$0	\$0	\$55		-	\$2,090
<b>Totals</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>38</b>									<b>13</b>	<b>\$883</b>	<b>\$0</b>	<b>\$55</b>	<b>\$938</b>	<b>494</b>	<b>\$35,629</b>

**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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23							
	A				Level of Effort (hrs)								B	C	D	E	C+D+E		
Detailed Source Water Body Characterization	12	13	13	38	1	5	12	0	0	0	0	0	18	\$768	\$0	\$0		684	\$29,176
Description of CWIS Configuration and Location	12	13	13	38	0	1	1	0	0	0	0	0	2	\$80	\$0	\$0		76	\$3,036
Facility Water Balance Diagram	12	13	13	38	1	1	1	0	0	0	0	0	3	\$179	\$0	\$0		114	\$6,791
Operational Characteristics Narrative	12	13	13	38	12	30	0	0	0	0	0	0	42	\$2,428	\$0	\$0		1,596	\$92,249
Submit Materials for Review by State	12	13	13	38	0	0	0	0	0	0	0	3	3	\$70	\$0	\$0		114	\$2,656
Recordkeeping	12	13	13	38	1	1	1	0	0	0	0	1	4	\$202	\$0	\$0		152	\$7,676
Other Direct Costs	12	13	13	38	0	0	0	0	0	0	0	0	0	\$0	\$0	\$540		-	\$20,520
<b>Totals</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>38</b>									<b>72</b>	<b>\$3,726</b>	<b>\$0</b>	<b>\$540</b>	<b>\$4,266</b>	<b>2,736</b>	<b>\$162,104</b>

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	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23							
	A				Level of Effort (hrs)								B	C	D	E	C+D+E		
Gather Information Characterizing Flow	12	13	13	38	0	10	0	0	0	0	0	0	10	\$414	\$0	\$0		380	\$15,732
Perform Engineering Calculations	12	13	13	38	2	10	0	0	0	0	0	0	12	\$612	\$0	\$0		456	\$23,241
Submit Data and Analysis for Review	12	13	13	38	0	0	0	0	0	0	0	5	5	\$117	\$0	\$0		190	\$4,427
Recordkeeping	12	13	13	38	0	2	0	0	0	0	0	2	4	\$129	\$0	\$0		152	\$4,917
Other Direct Costs	12	13	13	38	0	0	0	0	0	0	0	0	0	\$0	\$0	\$110		-	\$4,180
<b>Totals</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>38</b>									<b>31</b>	<b>\$1,272</b>	<b>\$0</b>	<b>\$110</b>	<b>\$1,382</b>	<b>1,178</b>	<b>\$52,497</b>

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**		
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E	A*B	A*(C+D+E)
Identify Available Data and Document Efforts	12	13	13	38	12	24	0	0	0	0	0	2	38	\$2,226	\$0	\$0	\$0	1,444	\$84,580
Compile and Analyze Existing Data	12	13	13	38	10	18	6	0	0	0	0	1	35	\$1,988	\$0	\$0	\$0	1,330	\$75,525
Submit Data for Review by State	12	13	13	38	0	0	0	0	0	0	0	2	2	\$47	\$0	\$0	\$0	76	\$1,771
Recordkeeping	12	13	13	38	1	1	0	0	0	0	0	2	4	\$187	\$0	\$0	\$0	152	\$7,098
Other Direct Costs	12	13	13	38	0	0	0	0	0	0	0	0	0	\$0	\$0	\$810	\$0	-	\$30,780
<b>Totals</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>38</b>									<b>79</b>	<b>\$4,447</b>	<b>\$0</b>	<b>\$810</b>	<b>\$5,257</b>	<b>3,002</b>	<b>\$199,755</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**		
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E	A*B	A*(C+D+E)
Develop Narrative	5	10	8	23	8	16	0	0	0	0	0	0	24	\$1,453	\$0	\$0	\$0	552	\$33,414
Perform Engineering Calculations	5	10	8	23	4	12	0	0	0	0	0	0	16	\$892	\$0	\$0	\$0	368	\$20,516
Document Minimization of Blow Down and Flows Not	5	10	8	23	0	40	0	0	0	0	0	6	46	\$1,796	\$0	\$0	\$0	1,058	\$41,303
Submit Data and Analysis for Review	5	10	8	23	0	0	0	0	0	0	0	8	8	\$186	\$0	\$0	\$0	184	\$4,287
Recordkeeping	5	10	8	23	2	4	0	0	0	0	0	8	14	\$550	\$0	\$0	\$0	322	\$12,641
Other Direct Costs	5	10	8	23	0	0	0	0	0	0	0	0	0	\$0	\$0	\$435	\$0	-	\$10,005
<b>Totals</b>	<b>5</b>	<b>10</b>	<b>8</b>	<b>23</b>									<b>108</b>	<b>\$4,877</b>	<b>\$0</b>	<b>\$435</b>	<b>\$5,312</b>	<b>2,484</b>	<b>\$122,167</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**		
	Year 1	Year 2	Year 3	Total	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23						B	C
	A				Level of Effort (hrs)								B	C	D	E	C+D+E	A*B	A*(C+D+E)
Develop Narrative	5	10	8	23	5	10	0	0	0	0	0	0	15	\$908	\$0	\$0	\$0	345	\$20,884
Perform Engineering Calculations	5	10	8	23	8	32	0	0	0	0	0	0	40	\$2,115	\$0	\$0	\$0	920	\$48,650
Submit Data and Analysis for Review	5	10	8	23	0	0	0	0	0	0	0	8	8	\$186	\$0	\$0	\$0	184	\$4,287
Revise Based on State review	5	10	8	23	1	5	0	0	0	0	0	0	6	\$306	\$0	\$0	\$0	138	\$7,033
Recordkeeping	5	10	8	23	1	1	0	0	0	0	0	4	6	\$233	\$0	\$0	\$0	138	\$5,368
Other Direct Costs	5	10	8	23	0	0	0	0	0	0	0	0	0	\$0	\$0	\$1,080	\$0	-	\$24,840
<b>Totals</b>	<b>5</b>	<b>10</b>	<b>8</b>	<b>23</b>									<b>75</b>	<b>\$3,749</b>	<b>\$0</b>	<b>\$1,080</b>	<b>\$4,829</b>	<b>1,725</b>	<b>\$111,062</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
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$								Burden (hrs)	Labor Cost	Capital Costs	O&M Costs	Total Costs**	A*B	A*(C+D+E)
	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23											
	A				Level of Effort (hrs)								B	C	D	E	C+D+E	A*B	A*(C+D+E)
Delineate Hydraulic Zone of Influence	5	10	8	23	1	2	2	0	0	0	0	0	5	\$259	\$0	\$0	115	\$5,948	
Develop Narrative Description	5	10	8	23	5	10	0	0	0	0	0	0	15	\$908	\$0	\$0	345	\$20,884	
Perform Engineering Calculations	5	10	8	23	3	12	0	0	0	0	0	0	15	\$793	\$0	\$0	345	\$18,244	
Submit Data and Analysis for Review	5	10	8	23	0	0	0	0	0	0	0	3	3	\$70	\$0	\$0	69	\$1,608	
Recordkeeping	5	10	8	23	1	1	0	0	0	0	0	3	5	\$210	\$0	\$0	115	\$4,832	
Other Direct Costs	5	10	8	23	0	0	0	0	0	0	0	0	0	\$0	\$0	\$55	-	\$1,265	
<b>Totals</b>	<b>5</b>	<b>10</b>	<b>8</b>	<b>23</b>									<b>43</b>	<b>\$2,240</b>	<b>\$0</b>	<b>\$55</b>	<b>\$2,295</b>	<b>989</b>	<b>\$52,780</b>

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
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$								Burden (hrs)	Labor Cost	Capital Costs	O&M Costs	Total Costs**	A*B	A*(C+D+E)
	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23											
	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	7	3	5	15	6	12	0	0	0	0	0	1	19	\$1,113	\$0	\$0	285	\$16,694	
Description of Proposed and/or Implemented Technologies	7	3	5	15	2	6	0	0	0	0	0	0	8	\$446	\$0	\$0	120	\$6,690	
Develop Baseline Biological Characterization Sampling Plan	7	3	5	15	12	18	2	2	0	0	0	1	35	\$2,282	\$0	\$0	525	\$34,229	
Submit Data and Plans for Review	7	3	5	15	0	0	0	0	0	0	0	4	4	\$93	\$0	\$0	60	\$1,398	
Revise Based on State Review	7	3	5	15	2	5	1	0	0	0	0	1	9	\$466	\$0	\$0	135	\$6,996	
Recordkeeping	7	3	5	15	1	1	1	0	0	0	0	2	5	\$225	\$0	\$0	75	\$3,380	
Other Direct Costs	7	3	5	15	0	0	0	0	0	0	0	0	0	\$0	\$0	\$810	-	\$12,150	
<b>Totals</b>	<b>7</b>	<b>3</b>	<b>5</b>	<b>15</b>									<b>80</b>	<b>\$4,626</b>	<b>\$0</b>	<b>\$810</b>	<b>\$5,436</b>	<b>1,200</b>	<b>\$81,536</b>

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
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate \$								Burden (hrs)	Labor Cost	Capital Costs	O&M Costs	Total Costs**	A*B	A*(C+D+E)
	\$99	\$41	\$39	\$125	\$64	\$80	\$45	\$23											
	A				Level of Effort (hrs)								B	C	D	E	C+D+E	A*B	A*(C+D+E)
Implement Freshwater Sampling	8	8	7	23	2	16	0	36	1248	20	1248	10	2580	\$142,358	\$0	\$0	29,670	\$1,637,115	
Other Direct Costs for Implement Freshwater Sampling	8	8	7	23	0	0	0	0	0	0	0	0	0	\$0	\$0	\$3,400	-	\$39,100	
Implement Estuary Sampling	4	3	3	10	3	30	0	48	2457	30	2457	15	5040	\$276,388	\$0	\$0	16,800	\$921,294	
Other Direct Costs for Implement Estuary Sampling	4	3	3	10	0	0	0	0	0	0	0	0	0	\$0	\$0	\$8,400	-	\$28,000	
Biological Study Laboratory Analysis (Freshwater)	8	8	7	23	0	0	0	0	0	0	0	0	0	\$0	\$0	\$50,600	-	\$581,900	
Biological Study Laboratory Analysis (Estuary)	4	3	3	10	0	0	0	0	0	0	0	0	0	\$0	\$0	\$98,700	-	\$329,000	
Profile of Source Water Biota	7	3	5	15	10	6	0	10	18	0	6	2	52	\$3,951	\$0	\$0	780	\$59,268	
Identification of Critical Species	7	3	5	15	10	6	0	6	12	0	0	1	35	\$2,777	\$0	\$0	525	\$41,648	
Description of Additional Stresses	7	3	5	15	5	3	0	5	9	0	3	1	26	\$1,976	\$0	\$0	390	\$29,634	
Write Study based on Results and Submit for Review by	4	6	5	15	24	48	0	5	2	2	0	2	83	\$5,319	\$0	\$0	1,245	\$79,779	
Recordkeeping	4	6	5	15	2	4	0	2	0	0	0	7	15	\$777	\$0	\$0	225	\$11,657	
Finalize study based on State review	4	6	5	15	5	10	0	0	0	0	0	2	17	\$955	\$0	\$0	255	\$14,319	
<b>Freshwater Totals</b>				<b>8</b>									<b>2,808</b>	<b>\$158,111</b>	<b>\$50,600</b>	<b>\$3,400</b>	<b>\$212,111</b>	<b>32,291</b>	<b>\$2,440,108</b>
<b>Marine Totals</b>				<b>4</b>									<b>5,268</b>	<b>\$292,142</b>	<b>\$98,700</b>	<b>\$8,400</b>	<b>\$399,242</b>	<b>17,599</b>	<b>\$1,332,605</b>

Total Burden and Costs for All NPDES Application Activities

												Total Burden (hrs.)	Total Initial Cost
<b>Totals</b>												<b>63,698</b>	<b>\$4,590,242</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	Junior	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit
	Technical	Technical	Hourly Rate \$				
	73	40	28				
Level of Effort (hrs)				B	C	D	C+D
Reviewing CWIS location and design data	2	5	0	7	\$344		
Determine Compliance with Source Waterbody Flow Information	1	2	0	2	\$115		
Review Source Water Baseline Biological Characterization Data	6	6	0	12	\$673		
Review Design and Construction Technology Plan (Track 1)	7	2	0	10	\$618		
Determine Compliance with CWIS Velocity Requirements (Track 1)	1	2	0	2	\$115		
Determine Compliance with CWIS Flow Reduction Requirements (Track 1)	2	2	0	5	\$269		
Review Comprehensive Demonstration Study Plan (Track 2)	5	5	0	10	\$539		
Review Source Water Baseline Biological Characterization Study (Track 2)	80	15	0	95	\$6,409		
Determine Monitoring Frequency	1	2	0	2	\$115		
Determine Record keeping and Reporting Frequency	1	2	0	2	\$115		
Considering Public Comments	5	5	0	10	\$539		
Issuing Permit	0	2	0	2	\$101		
Permit Record Keeping	0	0	1	1	\$50		
<b>Totals</b>	<b>110</b>	<b>50</b>	<b>0</b>	<b>160</b>	<b>\$10,001</b>	<b>\$325</b>	<b>\$10,326</b>
<b>Track 1 Totals</b>				<b>55</b>	<b>\$3,054</b>	<b>\$325</b>	<b>\$3,379</b>
<b>Track 2 Totals</b>				<b>143</b>	<b>\$8,999</b>	<b>\$325</b>	<b>\$9,324</b>