

APPENDIX A  
SUPPORTING SPREADSHEETS  
FOR  
INFORMATION COLLECTION REQUEST COSTS  
FOR SECTION 316(b) PHASE II

November 2013

**Exhibit A.1**

**Facility Cost and Burden Estimates for NPDES Permit Application Activities for the First Year of Renewal**

**Exhibit A.1a (renewal)**

**Start-up Activities**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*				
	\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25												
	A				Level of Effort (hrs)							B				C	D			
Read and Understand Rule	106	109	113	328	4	4	0	0	0	0	0	0	8	\$564	\$0	\$0			2,624	\$184,992
Mobilization/Planning	106	109	113	328	1	2	0	0	0	0	0	0	3	\$183	\$0	\$0			984	\$60,024
Training	106	109	113	328	1	1	0	0	0	0	0	0	2	\$141	\$0	\$0			656	\$46,248
<b>Totals</b>	<b>106</b>	<b>109</b>	<b>113</b>	<b>328</b>	<b>6</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>\$888</b>	<b>\$0</b>	<b>\$0</b>	<b>\$61</b>	<b>\$949</b>	<b>4,264</b>	<b>\$311,272</b>

**Exhibit A.1b**

**Permit Application Activities**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*				
	\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25												
	A				Level of Effort (hrs)							B				C	D			
Statement of Compliance Option Selected	89	123	108	320									0	\$0	\$0	\$0			-	\$0
Source Water Physical Data	89	123	108	320	1	5	12	0	0	0	0	0	18	\$789	\$0	\$0			5,760	\$252,480
Configuration and Location of CWIS	89	123	108	320	1	1	1	0	0	0	0	0	3	\$181	\$0	\$0			960	\$57,920
Facility Water Balance Diagram	89	123	108	320	1	1	1	0	0	0	0	0	3	\$181	\$0	\$0			960	\$57,920
CWIS Operation Narrative	89	123	108	320	12	30	0	0	0	0	0	0	42	\$2,448	\$0	\$0			13,440	\$783,360
CWS Operation Narrative	89	123	108	320	12	30	0	0	0	0	0	0	42	\$2,448	\$0	\$0			13,440	\$783,360
Engineering Calculations	89	123	108	320	6	24	0	0	0	0	0	0	30	\$1,602	\$0	\$0			9,600	\$512,640
Submit Materials for Review by State	89	123	108	320	0	0	0	0	0	0	0	3	3	\$75	\$0	\$0			960	\$24,000
Recordkeeping	89	123	108	320	1	3	1	0	0	0	0	1	6	\$290	\$0	\$0			1,920	\$92,800
<b>Totals</b>	<b>89</b>	<b>123</b>	<b>108</b>	<b>320</b>									<b>147</b>	<b>\$8,014</b>	<b>\$0</b>	<b>\$0</b>	<b>\$307</b>	<b>\$8,321</b>	<b>47,040</b>	<b>\$2,662,720</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**

**Proposal for Collection of Information for Comprehensive Demonstration Study**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*				
	\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25												
	A				Level of Effort (hrs)							B				C	D			
Description of Historical Studies that will be Used	83	71	86	240	6	12	0	0	0	0	0	1	19	\$1,123	\$0	\$0			4,560	\$269,520
Description of Proposed and/or Implemented Technologies	83	71	86	240	2	6	0	0	0	0	0	0	8	\$450	\$0	\$0			1,920	\$108,000
Develop Source Water Sampling Plan	83	71	86	240	12	18	2.4	0	0	0	0	1	33	\$2,065	\$0	\$0			8,016	\$495,600
Submit Data and Plans for Review	83	71	86	240	0	0	0	0	0	0	0	4	4	\$100	\$0	\$0			960	\$24,000
Revise Based on State Review	83	71	86	240	2	4.8	1.2	0	0	0	0	1	9	\$473	\$0	\$0			2,160	\$113,424
Recordkeeping	83	71	86	240	1	2	0	0	0	0	0	2	5	\$233	\$0	\$0			1,200	\$55,920
<b>Totals</b>	<b>83</b>	<b>71</b>	<b>86</b>	<b>240</b>									<b>78</b>	<b>\$4,444</b>	<b>\$0</b>	<b>\$0</b>	<b>\$245</b>	<b>\$4,689</b>	<b>18,816</b>	<b>\$1,125,264</b>

**Exhibit A.1d**

**Source Water Body Flow Information**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*				
	\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25	Level of Effort (hrs)	B	C						D			
Gather Information to Characterize Flow (FW River/Stream)	28	44	39	111	0	9.6	0	0	0	0	0	0	10	\$403	\$0	\$0			1,066	\$44,755
Water Body Thermal Stratification Narrative (Lake/Reservoir)	20	17	18	55	1.2	12	0	0	0	0	0	0	13	\$623	\$0	\$0			726	\$34,254
Perform Engineering Calculations	48	61	57	166	2.4	9.6	0	0	0	0	0	0	12	\$641	\$0	\$0			1,992	\$106,373
Submit Data and Analysis for Review	48	61	57	166	0	0	0	0	0	0	0	4.8	5	\$120	\$0	\$0			797	\$19,920
Recordkeeping	48	61	57	166	0	1	0	0	0	0	0	2.4	4	\$128	\$0	\$0			598	\$21,165
<b>Totals</b>	<b>48</b>	<b>61</b>	<b>57</b>	<b>166</b>									<b>31</b>	<b>\$1,364</b>	<b>\$0</b>	<b>\$0</b>	<b>\$123</b>	<b>\$1,487</b>	<b>5,178</b>	<b>\$246,885</b>

**Exhibit A.1e**

**Design and Construction Technology Plan**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*				
	\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25	Level of Effort (hrs)	B	C						D			
Delineate Hydraulic Zone of Influence	66	85	81	232	1	3	4	0	0	0	0	0	8	\$385	\$0	\$0			1,856	\$89,320
Develop Narrative Description of Technologies (Impingement)	66	85	81	232	4	8	0	0	0	0	0	0	12	\$732	\$0	\$0			2,784	\$169,824
Perform Engineering Calculations (Impingement)	66	85	81	232	2	6	0	0	0	0	0	0	8	\$450	\$0	\$0			1,856	\$104,400
Develop Narrative Description of Technologies (Entrainment)	22	37	36	95	4	8	0	0	0	0	0	0	12	\$732	\$0	\$0			1,140	\$69,540
Perform Engineering Calculations (Entrainment)	22	37	36	95	2	6	0	0	0	0	0	0	8	\$450	\$0	\$0			760	\$42,750
Document that Technologies Are Optimal	66	85	81	232	0	20	0	0	0	0	0	3	23	\$915	\$0	\$0			5,336	\$212,280
Submit Data and Analysis for Review	66	85	81	232	0	0	0	0	0	0	0	3	3	\$75	\$0	\$0			696	\$17,400
Recordkeeping	66	85	81	232	1	2	0	0	0	0	0	3	6	\$258	\$0	\$0			1,392	\$59,856
<b>Totals</b>	<b>66</b>	<b>85</b>	<b>81</b>	<b>232</b>									<b>68</b>	<b>\$3,299</b>	<b>\$0</b>	<b>\$0</b>	<b>\$184</b>	<b>\$3,483</b>	<b>15,820</b>	<b>\$808,058</b>

**Exhibit A.1f**

**Impingement Mortality & Entrainment Characterization Study**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Avg. Burden Per Facility	Avg. Labor Cost per Facility for 3 yrs	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.) for ICR period	Total Initial Cost (\$) for ICR period
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*				
	\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25	Level of Effort (hrs)	B	C						D			
Implement Offshore Freshwater Monitoring	85	94	93	94	2	16	0	60	1248	40	1248	10	2624	\$109,420	\$0	\$0			356,864	\$14,881,120
Impingement Monitoring Freshwater	85	94	93	94	1	5	0	0	0	20	0	5	31	\$1,634	\$0	\$0			4,216	\$222,224
Entrainment Monitoring Freshwater	85	94	93	94	1	5	0	0	0	20	0	5	31	\$1,634	\$0	\$0			4,216	\$222,224
Biological Study Laboratory Analysis (Freshwater)	85	94	93	94	0	0	0	0	0	0	0	0	0	\$0	\$0	\$38,282			-	\$5,206,352
Implement Offshore Marine Monitoring	101	97	99	101	3	30	0	96	2434	60	2434	15	5072	\$209,948	\$0	\$0			502,128	\$20,784,852
Impingement Monitoring Marine	101	97	99	101	1	9	0	0	0	30	0	8	48	\$2,477	\$0	\$0			4,752	\$245,223
Entrainment Monitoring Marine	101	97	99	101	1	9	0	0	0	30	0	8	48	\$2,477	\$0	\$0			4,752	\$245,223
Biological Study Laboratory Analysis (Marine)	101	97	99	101	0	0	0	0	0	0	0	0	0	\$0	\$0	\$74,651			-	\$7,390,449
Profile of Source Water Biota	83	71	86	240	10	6	0	10	18	0	6	2	52	\$3,358	\$0	\$0			12,480	\$805,920
Identification of Critical Species	83	71	86	240	10	6	0	6	12	0	0	1	35	\$2,449	\$0	\$0			8,400	\$587,760
Description of Additional Stresses	83	71	86	240	5	3	0	5	9	0	3	1	26	\$1,679	\$0	\$0			6,240	\$402,960
Write Study based on Results and Submit for Review by State	66	85	81	232	24	48	0	5	2	2	0	2	83	\$5,163	\$0	\$0			19,256	\$1,197,816
Recordkeeping	66	85	81	232	2	4	0	2	4	1	0	7	20	\$995	\$0	\$0			4,640	\$230,840
Finalize study based on State review	66	85	81	232	5	10	0	0	0	0	0	2	17	\$965	\$0	\$0			3,944	\$223,880
<b>Totals</b>	<b>101</b>	<b>97</b>	<b>99</b>	<b>240</b>									<b>3,456</b>	<b>\$148,946</b>	<b>\$0</b>	<b>\$57,119</b>	<b>\$0</b>	<b>\$206,065</b>	<b>931,888</b>	<b>\$52,646,843</b>

**Exhibit A.1g**

**Verification Monitoring Plan**

Activity	Facilities (Respondents)				Facility	Junior	CAD	Contracted	Biologist	Statistician	Biological	Clerical	Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	O&M Cost per Facility		Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost	
	Year 1	Year 2	Year 3	Total	Assumed Loaded Hourly Rate							Laboratory Analysis				ODCs*					
	A				\$99	\$42	\$40	\$101	\$48	\$60	\$32	\$25				B	C				D
Develop Verification Monitoring Plan	77	98	92	267								0	\$0	\$0	\$0	\$0			-	\$0	
Submit Data and Plans for Review	77	98	92	267								0	\$0	\$0	\$0	\$0			-	\$0	
Revise Based on State Review	77	98	92	267								0	\$0	\$0	\$0	\$0			-	\$0	
Recordkeeping	77	98	92	267								0	\$0	\$0	\$0	\$0			-	\$0	
<b>Totals</b>	<b>77</b>	<b>98</b>	<b>92</b>	<b>267</b>								<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>			<b>\$0</b>	<b>-</b>	<b>\$0</b>

**Total Labor Burden, Labor Cost, Capital Costs and O&M Costs for All NPDES Application Activities (renewal)**

	Facilities (Respondents)				Burden Per Facility	Labor Cost per Facility	Capital Cost per Facility	Laboratory Analysis	ODCs*	Total Cost Per Facility	Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total								
<b>Totals</b>											<b>1,023,006</b>	<b>\$57,801,042</b>

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

**Exhibit A.2a  
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	O & M Costs		Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$99	\$42	\$101	\$48	\$60	\$32	\$25			Laboratory Analyses	ODCs*			
	A				Level of Effort (hrs)							B	C	D	E	C+D+E	A*B	A*(C+D)
Monthly Sample Collection	290	290	290	290	2	0	4	72	0	72	0	150	\$6,362				130,500	\$5,534,940
Onsite Analysis of Samples	290	290	290	290	4	0	12	72	0	72	0	160	\$7,368				139,200	\$6,410,160
Perform Statistical Analysis	290	290	290	290	8	4	0	0	32	0	0	44	\$2,880				38,280	\$2,505,600
Recordkeeping	290	290	290	290	2	1	1	4	1	0	16	25	\$993				21,750	\$863,910
<b>Totals</b>	<b>290</b>	<b>290</b>	<b>290</b>	<b>290</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>\$17,603</b>	<b>\$0</b>	<b>\$614</b>	<b>\$18,217</b>	<b>329,730</b>	<b>\$15,848,790</b>

149

**Exhibit A.2b  
Biological Monitoring for Impingement (Marine)**

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	O & M Costs		Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$99	\$42	\$101	\$48	\$60	\$32	\$25			Laboratory Analyses	ODCs*			
	A				Level of Effort (hrs)							B	C	D	E	C+D+E	A*B	A*(C+D)
Monthly Sample Collection	165	165	165	165	2	0	5	94	0	94	0	194	\$8,211				96,228	\$4,064,544
Onsite Analysis of Samples	165	165	165	165	4	0	16	94	0	94	0	207	\$9,460				102,366	\$4,682,502
Perform Statistical Analysis	165	165	165	165	8	4	0	0	42	0	0	54	\$3,456				26,532	\$1,710,720
Recordkeeping	165	165	165	165	2	1	1	5	1	0	16	27	\$1,099				13,266	\$543,956
<b>Totals</b>	<b>165</b>	<b>165</b>	<b>165</b>	<b>165</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>\$22,226</b>	<b>\$0</b>	<b>\$798</b>	<b>\$23,024</b>	<b>238,392</b>	<b>\$11,396,732</b>

**Exhibit A.2c  
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	O & M Costs		Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$99	\$42	\$101	\$48	\$60	\$32	\$25			Laboratory Analyses	ODCs*			
	A				Level of Effort (hrs)							B	C	D	E	C+D+E	A*B	A*(C+D)
Biweekly Sample Collection	290	290	290	290	4	0	12	156	0	156	0	328	\$14,088				285,360	\$12,256,560
Handling and Preparation of Samples	290	290	290	290	4	0	12	78	0	78	0	172	\$7,848				149,640	\$6,827,760
Laboratory Analysis to Identify & Enumerate Entrained Freshwater Biota	290	290	290	290	0	0	0	0	0	0	0	0	\$0	\$0			-	\$0
Perform Statistical Analysis	290	290	290	290	16	4	0	0	64	0	0	84	\$5,592				73,080	\$4,865,040
Recordkeeping	290	290	290	290	2	1	1	8	2	0	16	30	\$1,245				26,100	\$1,083,150
<b>Totals</b>	<b>290</b>	<b>290</b>	<b>290</b>	<b>290</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>\$28,773</b>	<b>\$0</b>	<b>\$1,227</b>	<b>\$30,000</b>	<b>534,180</b>	<b>\$26,100,000</b>

**Exhibit A.2d  
Biological Monitoring for Entrainment (Marine)**

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	O & M Costs		Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$99	\$42	\$101	\$48	\$60	\$32	\$25			Laboratory Analyses	ODCs*			
	A				Level of Effort (hrs)							B	C	D	E	C+D+E	A*B	A*(C+D)
Biweekly Sample Collection	165	165	165	165	4	0	12	203	0	203	0	422	\$17,848				208,890	\$8,834,760
Handling and Preparation of Samples	165	165	165	165	4	0	12	101	0	101	0	218	\$9,688				107,910	\$4,795,560
Laboratory Analysis to Identify & Enumerate Entrained Marine Biota	165	165	165	165	0	0	0	0	0	0	0	0	\$0	\$0			-	\$0
Perform Statistical Analysis	165	165	165	165	16	4	0	0	83	0	0	103	\$6,732				50,985	\$3,332,340
Recordkeeping	165	165	165	165	2	1	1	10	3	0	16	33	\$1,401				16,335	\$693,495
<b>Totals</b>	<b>165</b>	<b>165</b>	<b>165</b>	<b>165</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>\$35,669</b>	<b>\$0</b>	<b>\$1,411</b>	<b>\$37,080</b>	<b>384,120</b>	<b>\$18,354,600</b>

**Exhibit A.2e  
Bi-Annual 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	O & M Costs		Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$99	\$42	\$101	\$48	\$60	\$32	\$25			Laboratory Analyses	ODCs*			
	A				Level of Effort (hrs)							B	C	D	E	C+D+E	A*B	A*(C+D)
Report on Inspection and Maintenance	455	455	455	455	16	16	0	0	0	0	0	32	\$2,256				43,680	\$3,079,440
Detail Biological Monitoring Results	455	455	455	455	24	32	4	4	24	0	0	88	\$5,756				120,120	\$7,856,940
Compile and Submit Report	228	228	228	228	80	80	0	0	0	0	16	176	\$11,680				120,384	\$7,989,120
Recordkeeping	455	455	455	455	8	12	0	0	0	0	8	28	\$1,496				38,220	\$2,042,040
<b>Totals</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>128</b>	<b>140</b>	<b>4</b>	<b>4</b>	<b>24</b>	<b>0</b>	<b>24</b>	<b>236</b>	<b>\$15,361</b>	<b>\$0</b>	<b>\$920</b>	<b>\$16,281</b>	<b>322,404</b>	<b>\$22,223,340</b>

**Exhibit A.2f  
Verification Study**

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	O & M Costs		Total Costs**	Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total	\$99	\$42	\$101	\$48	\$60	\$32	\$25			Laboratory Analyses	ODCs*			
	A				Level of Effort (hrs)							B	C	D	E	C+D+E	A*B	A*(C+D)
Perform Statistical Analysis	188	178	175	180	25	30	15	15	25	0	1	111	\$7,495				60,051	\$4,054,795
Submit Monitoring Results & Study Analysis	92	87	101	93	0	0	0	0	0	0	4	4	\$100				1,120	\$28,000
Recordkeeping	188	178	175	180	1	2	0	0	0	0	4	7	\$283				3,787	\$153,103
<b>Totals</b>	<b>188</b>	<b>178</b>	<b>175</b>	<b>180</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>\$7,830</b>	<b>\$0</b>	<b>\$614</b>	<b>\$8,444</b>	<b>64,958</b>	<b>\$4,568,072</b>

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

	Facilities (Respondents)				Total Burden (hrs.)	Total Cost (\$)
	Year 1	Year 2	Year 3	Total		
<b>Totals</b>					<b>1,873,784</b>	<b>\$98,491,534</b>

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

\*\* There were no estimated Capital costs for any annual activities performed by facilities.

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

**Exhibit A.3a (States)**

[Exhibit A.3a (States) is reserved for future use]

**Exhibit A.3b (States)**

**States Director Permit Issuance Activities (renewal)**

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	O&M Costs*	Total Cost Per Director**	Total Burden (hrs.)	Total Initial Cost*
		Assumed Loaded Hourly Rate								
		\$64	\$38	\$30						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review Source Water Physical Data	311	1	2	0	3	\$140			933	\$43,540
Review CWIS Data	311	2	5	0	7	\$318			2,177	\$98,898
Review CWS Operation Narrative	311	2	5	0	7	\$318			2,177	\$98,898
Review Proposal for Collection of Information for Comprehensive Demonstration	230	5	5	0	10	\$510			2,300	\$117,300
Review Source Water Body Flow Information	165	1	2	0	3	\$140			495	\$23,100
Review Design and Construction Technology Plan	224	7	2	0	9	\$524			2,016	\$117,376
Review Impingement Mortality & Entrainment Characterization Study	224	120	15	0	135	\$8,250			30,240	\$1,848,000
Review Pilot Study for New Impingement & Entrainment Technology	-	5	5	0	10	\$510			-	\$0
Review Information to Support Site-Specific Determination of BTA	89	240	60	0	300	\$17,640			26,700	\$1,569,960
Determine Monitoring Frequency	311	1	2	0	3	\$140			933	\$43,540
Determine Record keeping and Reporting Frequency	311	1	2	0	3	\$140			933	\$43,540
Establish Requirements for Site-Specific Technology	89	2	7	0	9	\$394			801	\$35,066
Considering Public Comments	311	5	5	0	10	\$510			3,110	\$158,610
Issuing Permit	311	0	2	0	2	\$76			622	\$23,636
Recordkeeping	311	0	0	1	1	\$30			311	\$9,330
<b>Totals</b>	<b>311</b>	<b>392</b>	<b>119</b>	<b>1</b>	<b>246</b>	<b>\$14,018</b>	<b>\$368</b>	<b>\$14,386</b>	<b>73,748</b>	<b>\$4,345,242</b>

**Exhibit A.3c (States)**

**Verification Study Review**

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	O&M Costs*	Total Cost Per Director**	Total Burden (hrs.)	Total Initial Cost
		Assumed Loaded Hourly Rate								
		\$64	\$38	\$30						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review of Verification Studies	90	2	4	0	6	\$280			540	\$25,200
Permit Modification Due to Unfavorable Results	90	4	10	0	14	\$636			1260	\$57,240
Recordkeeping	90	0	0	1	1	\$30			90	\$2,700
<b>Totals</b>	<b>90</b>	<b>6</b>	<b>14</b>	<b>1</b>	<b>21</b>	<b>\$946</b>	<b>\$12</b>	<b>\$958</b>	<b>1890</b>	<b>\$86,000</b>

**Exhibit A.3d (States)**

**Annual States Director Activities**

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	O&M Costs*	Total Cost Per Director**	Total Annual Cost
		Assumed Loaded Hourly Rate								
		\$64	\$38	\$30						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review of Bi-Annual Status Report	660	6	12	0	18	\$840			11,880	\$554,400
Compliance Tracking	1,320	4	12	0	16	\$712			21,120	\$939,840
Determination on Monitoring Frequency Reduction	1,320	4	8	0	12	\$560			15,840	\$739,200
Recordkeeping	1,320	1	2	1	4	\$170			5,280	\$224,400
<b>Totals</b>	<b>1,320</b>	<b>15</b>	<b>34</b>	<b>1</b>	<b>41</b>	<b>\$2,282</b>	<b>\$31</b>	<b>\$2,313</b>	<b>54,120</b>	<b>\$2,498,760</b>

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

								Total Burden (hrs.)	Total Initial Cost
<b>Totals</b>								<b>129,758</b>	<b>6,930,002</b>

\* The O&M costs incurred by directors are all ODCs. The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

\*\* There were no estimated Capital costs for any activities performed by directors.

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

**Exhibit A.3a (Federal)**  
[Exhibit A.3a (Federal) is reserved for future use]

**Exhibit A.3b (Federal)**  
**Federal Director Permit Issuance Activities (renewal)**

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	O&M Costs*	Total Cost Per Director**	Total Burden (hrs.)	Total Initial Cost*
		Assumed Loaded Hourly Rate								
		\$64	\$38	\$30						
A	Level of Effort (hrs)				B	C	D	C+D	A*B	A*(C+D)
Review Source Water Physical Data	9	1	2	0	3	\$140			27	\$1,260
Review CWIS Data	9	2	5	0	7	\$318			63	\$2,862
Review CWS Operation Narrative	9	2	5	0	7	\$318			63	\$2,862
Review Proposal for Collection of Information for Comprehensive Demonstration	10	5	5	0	10	\$510			100	\$5,100
Review Source Water Body Flow Information	1	1	2	0	3	\$140			3	\$140
Review Design and Construction Technology Plan	8	7	2	0	9	\$524			72	\$4,192
Review Impingement Mortality & Entrainment Characterization Study	8	120	15	0	135	\$8,250			1,080	\$66,000
Review Pilot Study for New Impingement & Entrainment Technology	-	5	5	0	10	\$510			-	\$0
Review Information to Support Site-Specific Determination of BTA	6	240	60	0	300	\$17,640			1,800	\$105,840
Determine Monitoring Frequency	9	1	2	0	3	\$140			27	\$1,260
Determine Record keeping and Reporting Frequency	9	1	2	0	3	\$140			27	\$1,260
Establish Requirements for Site-Specific Technology	6	2	7	0	9	\$394			54	\$2,364
Considering Public Comments	9	5	5	0	10	\$510			90	\$4,590
Issuing Permit	9	0	2	0	2	\$76			18	\$684
Permit Record Keeping	9	0	0	1	1	\$30			9	\$270
<b>Totals</b>	<b>10</b>	<b>392</b>	<b>119</b>	<b>1</b>	<b>350</b>	<b>\$20,179</b>	<b>\$368</b>	<b>\$20,547</b>	<b>3,433</b>	<b>\$201,996</b>

**Exhibit A.3c (Federal)**  
**Verification Study Review**

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	O&M Costs*	Total Cost Per Director**	Total Burden (hrs.)	Total Initial Cost
		64								
		\$64	\$38	\$30						
A	Level of Effort (hrs)				B	C	D	C+D	A*B	A*(C+D)
Review of Verification Studies	3	2	4	0	6	\$280	-	-	20	\$933
Permit Modification Due to Unfavorable Results	3	4	10	0	14	\$636	-	-	47	\$2,120
Record Keeping	3	0	0	1	1	\$30	-	-	3	\$100
<b>Totals</b>	<b>3</b>	<b>6</b>	<b>14</b>	<b>1</b>	<b>21</b>	<b>\$946</b>	<b>\$12</b>	<b>\$958</b>	<b>70</b>	<b>\$3,000</b>

**Exhibit A.3d (Federal)**  
**Annual States Director Activities**

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	O&M Costs*	Total Cost Per Director**	Total Annual Cost
		Assumed Loaded Hourly Rate								
		\$64	\$38	\$30						
A	Level of Effort (hrs)				B	C	D	C+D	A*B	A*(C+D)
Review of Yearly Status Report	24	6	12	0	18	\$840	-	-	432	\$20,160
Compliance Tracking	45	4	12	0	16	\$712	-	-	720	\$32,040
Determination on Monitoring Frequency Reduction	45	4	8	0	12	\$560	-	-	540	\$25,200
Record Keeping	45	1	2	1	4	\$170	-	-	180	\$7,650
<b>Totals</b>	<b>45</b>	<b>15</b>	<b>34</b>	<b>1</b>	<b>41</b>	<b>\$2,282</b>	<b>\$31</b>	<b>\$2,313</b>	<b>1,872</b>	<b>\$86,445</b>

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

								Total Burden (hrs.)	Total Initial Cost
<b>Totals</b>								<b>5,375</b>	<b>291,441</b>

\* The O&M costs incurred by directors are all ODCs. The ODC estimate was not estimated for each activity, but rather as a lump sum for each provision of the rule.

\*\* There were no estimated Capital costs for any activities performed by directors.



**Exhibit A.4**  
**[Exhibit A.4 is reserved for future use]**

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

**Facilities (approval and renewal)**

	Year 1	Year 2	Year 3	Annual Average <sup>1</sup>
	2014	2015	2016	
Start-up Activities	106	109	113	109
Permit Application Activities	89	123	108	107
Proposal for Collection of Information for Comprehensive Demonstration Study	83	71	86	80
FW River/Stream Source Water Body Flow Information	28	44	39	37
FW Lake/Reservoir Source Water Body Flow Information	20	17	18	18
Design and Construction Technology Plan (Impingement Only)	44	48	45	46
Design and Construction Technology Plan (Impingement & Entrainment)	22	37	36	32
Freshwater Monitoring for Impingement Mortality & Entrainment Characterization Study	85	94	93	91
Marine Monitoring for Impingement Mortality & Entrainment Characterization Study	101	97	99	99
Impingement Mortality & Entrainment Characterization Study Initial Analysis	83	71	86	80
Impingement Mortality & Entrainment Characterization Study Final Report	66	85	81	77
Pilot Study Impingement Monitoring Only (Freshwater)	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Freshwater)	0	0	0	0
Pilot Study Impingement Monitoring Only (Marine)	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Marine)	0	0	0	0
Verification Monitoring Plan	77	98	92	89
Biological Monitoring for Impingement (Freshwater)	290	290	290	290
Biological Monitoring for Impingement (Marine)	165	165	165	165
Biological Monitoring for Entrainment (Freshwater)	290	290	290	290
Biological Monitoring for Entrainment (Marine)	165	165	165	165
Bi-Annual Status Report Activities	455	455	455	455
Verification Study	188	178	175	180
<b>Respondents</b>	<b>471</b>	<b>474</b>	<b>471</b>	<b>472</b>

**State Directors (approval and renewal)**

	Year 1	Year 2	Year 3	Annual Average <sup>2</sup>
	2014	2015	2016	
Director Start-up Activities	0	0	0	0
Director Permit Issuance Activities	0	0	0	0
Review Permit Application Information	86	121	104	104
Review Proposal for Collection of Information for Comprehensive Demonstration Study	79	70	81	77
Review Source Water Body Flow Information	48	60	57	55
Review Design and Construction Technology Plan	63	83	78	75
Review Impingement Mortality & Entrainment Characterization Study	63	83	78	75
Review Pilot Study for New Impingement & Entrainment Technology	0	0	0	0
Review Information to Support Site-Specific Determination of BTA	20	35	34	30
Determine Monitoring Frequency	86	121	104	104
Determine Permit Requirements and Issue Permit	86	121	104	104
Verification Study Review	89	84	97	90
Alternative Regulatory Requirements	0	0	0	0
Annual Director Activities	0	0	0	0
Review of Yearly Status Report	440	440	440	440
Compliance Tracking	440	440	440	440
Determination on Monitoring Frequency Reduction	440	440	440	440
Record Keeping	440	440	440	440
<b>Respondents</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>

**Sum for Facilities and Directors (approval and renewal)**

	Year 1	Year 2	Year 3	Annual Average
	2014	2015	2016	
<b>Facilities</b>	<b>471</b>	<b>474</b>	<b>471</b>	<b>472</b>
<b>State Directors</b>	<b>42</b>	<b>42</b>	<b>42</b>	<b>42</b>
<b>Yearly Total</b>	<b>513</b>	<b>516</b>	<b>513</b>	<b>514</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.

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

**Facilities**

	Year 1	Year 2	Year 3	Annual Average
	2014	2015	2016	
Start-up Activities	106	109	113	109
Permit Application Activities	89	123	108	107
Proposal for Collection of Information for Comprehensive Demonstration Study	83	71	86	80
FW River/Stream Source Water Body Flow Information	28	44	39	37
FW Lake/Reservoir Source Water Body Flow Information	20	17	18	18
Design and Construction Technology Plan (Impingement Only)	44	48	45	46
Design and Construction Technology Plan (Impingement & Entrainment)	22	37	36	32
Freshwater Monitoring for Impingement Mortality & Entrainment Characterization Study	85	94	93	91
Marine Monitoring for Impingement Mortality & Entrainment Characterization Study	101	97	99	99
Impingement Mortality & Entrainment Characterization Study Initial Analysis	83	71	86	80
Impingement Mortality & Entrainment Characterization Study Final Report	66	85	81	77
Pilot Study Impingement Monitoring Only (Freshwater)	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Freshwater)	0	0	0	0
Pilot Study Impingement Monitoring Only (Marine)	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Marine)	0	0	0	0
Information to Support Site-Specific Determination of BTA	22	37	36	32
Site-Specific Technology Plan	22	37	36	32
Verification Monitoring Plan	77	98	92	89
Biological Monitoring for Impingement (Freshwater)	290	290	290	290
Biological Monitoring for Impingement (Marine)	165	165	165	165
Biological Monitoring for Entrainment (Freshwater)	290	290	290	290
Biological Monitoring for Entrainment (Marine)	165	165	165	165
Bi-Annual Status Report Activities	455	455	455	455
Verification Study	188	178	175	180
<b>Responses</b>	<b>2,401</b>	<b>2,511</b>	<b>2,508</b>	<b>2,473</b>

**State Directors**

	Year 1	Year 2	Year 3	Annual Average
	2014	2015	2016	
Director Start-up Activities	0	0	0	0
Director Permit Issuance Activities				
Review Permit Application Information	86	121	104	104
Review Proposal for Collection of Information for Comprehensive Demonstration Study	79	70	81	77
Review Source Water Body Flow Information	48	60	57	55
Review Design and Construction Technology Plan	63	83	78	75
Review Impingement Mortality & Entrainment Characterization Study	63	83	78	75
Review Pilot Study for New Impingement & Entrainment Technology	0	0	0	0
Review Information to Support Site-Specific Determination of BTA	20	35	34	30
Determine Monitoring Frequency	86	121	104	104
Determine Permit Requirements and Issue Permit	86	121	104	104
Verification Study Review	89	84	97	90
Alternative Regulatory Requirements	0	0	0	0
Annual Director Activities				
Review of Bi-Annual Status Report	440	440	440	440
Compliance Tracking	440	440	440	440
Determination on Monitoring Frequency Reduction	440	440	440	440
Record Keeping	440	440	440	440
<b>Responses</b>	<b>2,380</b>	<b>2,538</b>	<b>2,497</b>	<b>2,472</b>

**Sum for Facilities and Directors**

	Year 1	Year 2	Year 3	Annual Average
	2014	2015	2016	
<b>Facilities</b>	<b>2,401</b>	<b>2,511</b>	<b>2,508</b>	<b>2,473</b>
<b>State Directors</b>	<b>2,380</b>	<b>2,538</b>	<b>2,497</b>	<b>2,472</b>
<b>Yearly Total</b>	<b>4,781</b>	<b>5,049</b>	<b>5,005</b>	<b>4,945</b>

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

**Facility Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
<b>NPDES Permit Application Activities</b>					
Start-up Activities	A1a	1,378	1,417	1,469	1,421
Permit Application Activities	A1b	13,083	18,081	15,876	15,680
Proposal for Collection of Information for Comprehensive Demonstration Study	A1c	6,507	5,566	6,742	6,272
FW River/Stream Source Water Body Flow Information	A1d	840	1,320	1,170	1,110
FW Lake/Reservoir Source Water Body Flow Information	A1d	672	571	605	616
Design and Construction Technology Plan (Impingement Only)	A1e	2,640	2,880	2,700	2,740
Design and Construction Technology Plan (Impingement & Entrainment)	A1e	1,760	2,960	2,880	2,533
Freshwater Monitoring for Impingement Mortality & Entrainment Characterization Study	A1f	114,155	126,242	124,899	121,765
Marine Monitoring for Impingement Mortality & Entrainment Characterization Study	A1f	173,989	167,099	170,544	170,544
Impingement Mortality & Entrainment Characterization Study Initial Analysis	A1f	9,379	8,023	9,718	9,040
Impingement Mortality & Entrainment Characterization Study Final Report	A1f	7,920	10,200	9,720	9,280
Pilot Study Impingement Monitoring Only (Freshwater) for Pilot Study	A1g	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Freshwater) for Pilot Study	A1g	0	0	0	0
Pilot Study Impingement Monitoring Only (Marine) for Pilot Study	A1g	0	0	0	0
Pilot Study Impingement & Entrainment Monitoring (Marine) for Pilot Study	A1g	0	0	0	0
Verification Monitoring Plan	A1h	0	0	0	0
<b>NPDES Permit Application Activity Total</b>		<b>332,324</b>	<b>344,359</b>	<b>346,323</b>	<b>341,002</b>
<b>Annual Activities</b>					
Biological Monitoring for Impingement (Freshwater)	A2a	109,910	109,910	109,910	109,910
Biological Monitoring for Impingement (Marine)	A2b	79,464	79,464	79,464	79,464
Biological Monitoring for Entrainment (Freshwater)	A2c	178,060	178,060	178,060	178,060
Biological Monitoring for Entrainment (Marine)	A2d	128,040	128,040	128,040	128,040
Bi-Annual Status Report Activities	A2e	107,380	107,380	107,380	107,380
Verification Study	A2f	22,552	21,352	21,054	21,653
<b>Annual Activity Yearly Labor Total</b>		<b>625,406</b>	<b>624,206</b>	<b>623,908</b>	<b>624,507</b>
<b>Yearly Labor Total</b>		<b>957,730</b>	<b>968,565</b>	<b>970,231</b>	<b>965,509</b>

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

**State Director Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
Director Start-up Activities	A3a (state)	0	0	0	0
Director Permit Issuance Activities	A3b (state)	19,282	28,003	26,463	24,583
Verification Study Review	A3c (state)	1,869	1,764	2,037	1,890
Alternative Regulatory Requirements	A3d (state)	0	0	0	0
Annual Director Activities	A3e (state)	18,040	18,040	18,040	18,040
<b>Yearly Total</b>		<b>39,191</b>	<b>47,807</b>	<b>46,540</b>	<b>44,513</b>

**Federal Director Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
Director Start-up Activities	A3a (federal)	0	0	0	0
Director Permit Issuance Activities	A3b (federal)	1,198	991	1,244	91,931
Verification Study Review	A3c (federal)	63	63	84	3,066
Alternative Regulatory Requirements	A3d (federal)	0	0	0	0
Annual Director Activities	A3e (federal)	615	615	615	18,500
<b>Yearly Total</b>		<b>1,876</b>	<b>1,669</b>	<b>1,943</b>	<b>1,829</b>

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

**Facility Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
<b>NPDES Permit Application Activities</b>					
Start-up Activities	A1a	\$94,128	\$96,792	\$100,344	\$97,088
Permit Application Activities	A1b	\$713,246	\$985,722	\$865,512	\$854,827
Proposal for Collection of Information for Comprehensive Demonstration Study	A1c	\$368,819	\$315,496	\$382,150	\$355,488
FW River/Stream Source Water Body Flow Information	A1d	\$36,162	\$56,826	\$50,369	\$47,786
FW Lake/Reservoir Source Water Body Flow Information	A1d	\$30,222	\$25,689	\$27,200	\$27,704
Design and Construction Technology Plan (Impingement Only)	A1e	\$123,860	\$135,120	\$126,675	\$128,552
Design and Construction Technology Plan (Impingement & Entrainment)	A1e	\$87,934	\$147,889	\$143,892	\$126,572
Freshwater Monitoring for Impingement Mortality & Entrainment Characterization Study	A1f	\$4,789,240	\$5,296,336	\$5,239,992	\$5,108,523
Marine Monitoring for Impingement Mortality & Entrainment Characterization Study	A1f	\$7,235,034	\$6,948,498	\$7,091,766	\$7,091,766
Impingement Mortality & Entrainment Characterization Study Initial Analysis	A1f	\$621,338	\$531,506	\$643,796	\$598,880
Impingement Mortality & Entrainment Characterization Study Final Report	A1f	\$470,118	\$605,455	\$576,963	\$550,845
Pilot Study Impingement Monitoring Only (Freshwater) for Pilot Study	A1g	\$0	\$0	\$0	\$0
Pilot Study Impingement & Entrainment Monitoring (Freshwater) for Pilot Study	A1g	\$0	\$0	\$0	\$0
Pilot Study Impingement Monitoring Only (Marine) for Pilot Study	A1g	\$0	\$0	\$0	\$0
Pilot Study Impingement & Entrainment Monitoring (Marine) for Pilot Study	A1g	\$0	\$0	\$0	\$0
Verification Monitoring Plan	A1h	\$0	\$0	\$0	\$0
<b>NPDES Permit Application Activity Total</b>		<b>\$14,570,101</b>	<b>\$15,145,328</b>	<b>\$15,248,658</b>	<b>\$14,988,029</b>
<b>Annual Activities</b>					
Biological Monitoring for Impingement (Freshwater)	A2a	\$5,104,870	\$5,104,870	\$5,104,870	\$5,104,870
Biological Monitoring for Impingement (Marine)	A2b	\$3,667,241	\$3,667,241	\$3,667,241	\$3,667,241
Biological Monitoring for Entrainment (Freshwater)	A2c	\$8,344,170	\$8,344,170	\$8,344,170	\$8,344,170
Biological Monitoring for Entrainment (Marine)	A2d	\$5,885,385	\$5,885,385	\$5,885,385	\$5,885,385
Bi-Annual Status Report Activities	A2e	\$6,989,180	\$6,989,180	\$6,989,180	\$6,989,180
Verification Study	A2f	\$1,471,464	\$1,393,184	\$1,371,250	\$1,411,966
<b>Annual Activity Yearly Labor Total</b>		<b>\$31,462,310</b>	<b>\$31,384,030</b>	<b>\$31,362,096</b>	<b>\$31,402,812</b>
<b>Yearly Labor Total</b>		<b>\$46,032,410</b>	<b>\$46,529,358</b>	<b>\$46,610,753</b>	<b>\$46,390,841</b>

**Facility O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
<b>NPDES Application</b>					
Purchase, Installation & Operation of Pilot Study Technology-Freshwater Impingement and Entrainment	A1g	\$0	\$0	\$0	\$0
Purchase, Installation & Operation of Pilot Study Technology-Freshwater-Impingement Only	A1g	\$0	\$0	\$0	\$0
Purchase, Installation & Operation of Pilot Study Technology-Marine Impingement and Entrainment	A1g	\$0	\$0	\$0	\$0
Purchase, Installation & Operation of Pilot Study Technology-Marine- Impingement Only	A1g	\$0	\$0	\$0	\$0
Biological Study Laboratory Analysis (Freshwater)	A1f	\$1,626,985	\$1,799,254	\$1,780,113	\$1,735,451
Biological Study Laboratory Analysis (Marine)	A1f	\$2,513,250	\$2,413,716	\$2,463,483	\$2,463,483
Pilot Study Entrainment Laboratory Analysis (Freshwater)	A1g	\$0	\$0	\$0	\$0
Pilot Study Entrainment Laboratory Analysis (Marine)	A1g	\$0	\$0	\$0	\$0
Other Direct Costs	A.1a-h	\$72,172	\$84,948	\$83,034	\$80,051
<b>Annual</b>		\$0	\$0	\$0	\$0
Laboratory Analysis to Identify & Enumerate Entrained Freshwater Biota	A2c	\$2,775,590	\$2,775,590	\$2,775,590	\$2,775,590
Laboratory Analysis to Identify & Enumerate Entrained Marine Biota	A2d	\$2,052,930	\$2,052,930	\$2,052,930	\$2,052,930
Other Direct Costs	A.2a-f	\$1,432,407	\$1,426,267	\$1,424,425	\$1,427,700
<b>Equipment Cost Subtotal</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Laboratory Analysis Subtotal</b>		<b>\$8,968,755</b>	<b>\$9,041,490</b>	<b>\$9,072,116</b>	<b>\$9,027,454</b>
<b>Other Direct Costs Subtotal</b>		<b>\$1,504,579</b>	<b>\$1,511,215</b>	<b>\$1,507,459</b>	<b>\$1,507,751</b>
<b>Yearly O&amp;M Total</b>		<b>\$10,473,334</b>	<b>\$10,552,705</b>	<b>\$10,579,575</b>	<b>\$10,535,205</b>

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

**State Director Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
Director Start-up Activities	A3a (state)	\$0	\$0	\$0	\$0
Director Permit Issuance Activities	A3b (state)	\$1,104,244	\$1,605,844	\$1,520,706	\$1,410,265
Verification Study Review	A3c (state)	\$84,194	\$79,464	\$91,762	\$85,140
Alternative Regulatory Requirements	A3d (state)	\$0	\$0	\$0	\$0
Annual Director Activities	A3e (state)	\$1,004,080	\$1,004,080	\$1,004,080	\$1,004,080
<b>Yearly Total</b>		<b>\$2,192,518</b>	<b>\$2,689,388</b>	<b>\$2,616,548</b>	<b>\$2,499,485</b>

**State Director O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
<b>Start-Up &amp; NPDES Application</b>					
Annual Other Direct Costs	A3a-d (state)	\$32,716	\$45,536	\$39,436	\$39,229
Other Direct Costs	A3e (state)	\$13,640	\$13,640	\$13,640	\$13,640
<b>Yearly O&amp;M Cost Total</b>		<b>\$46,356</b>	<b>\$59,176</b>	<b>\$53,076</b>	<b>\$52,869</b>

**Federal Director Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
Director Start-up Activities	A3a (federal)	\$0	\$0	\$0	\$0
Director Permit Issuance Activities	A3b (federal)	\$69,446	\$57,610	\$71,628	\$66,228
Verification Study Review	A3c (federal)	\$2,838	\$2,838	\$3,784	\$3,153
Alternative Regulatory Requirements	A3d (federal)	\$0	\$0	\$0	\$0
Annual Director Activities	A3e (federal)	\$34,230	\$34,230	\$34,230	\$34,230
<b>Yearly Total</b>		<b>\$106,514</b>	<b>\$94,678</b>	<b>\$109,642</b>	<b>\$103,611</b>

**Federal Director O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2014	2015	2016	
<b>Start-Up &amp; NPDES Application</b>					
Annual Other Direct Costs	A3a-d (federal)	\$1,140	\$772	\$1,520	\$1,144
Other Direct Costs	A3e (federal)	\$465	\$465	\$465	\$465
<b>Yearly O&amp;M Cost Total</b>		<b>\$1,605</b>	<b>\$1,237</b>	<b>\$1,985</b>	<b>\$1,609</b>

## Exhibit A.11

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

#### Facilities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total <sup>1</sup>
		2014	2015	2016		
Burden (hours)	A7	957,730	968,565	970,231	965,509	2,896,526
Respondents (number)	A5	471	474	471	472	506
Responses (number)	A6	2,401	2,511	2,508	2,473	7,420
Costs (labor)	A9	\$46,032,410	\$46,529,358	\$46,610,753	\$46,390,841	\$139,172,522
Costs (Equipment)	A9	\$0	\$0	\$0	\$0	\$0
Costs (Lab Analysis)	A9	\$8,968,755	\$9,041,490	\$9,072,116	\$9,027,454	\$27,082,361
Costs (Other Direct Costs)	A9	\$1,504,579	\$1,511,215	\$1,507,459	\$1,507,751	\$4,523,253
<b>Total Costs</b>		<b>\$56,505,745</b>	<b>\$57,082,062</b>	<b>\$57,190,328</b>	<b>\$56,926,045</b>	<b>\$170,778,136</b>

[1] Each facility is one respondent. One respondent may perform activities in more than one year. So to avoid double-counting, the respondent 3 year total, is the total number of facilities that must perform one or more activities during the ICR approval period.

#### Directors

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total <sup>1</sup>
		2014	2015	2016		
Burden (hours)	A8	39,191	47,807	46,540	44,513	133,538
Respondents (number)	A5	42	42	42	42	42
Responses (number)	A6	2,380	2,538	2,497	2,472	7,415
Costs(labor)	A10	\$2,192,518	\$2,689,388	\$2,616,548	\$2,499,485	\$7,498,454
Costs (Other Direct Costs)	A10	\$46,356	\$59,176	\$53,076	\$52,869	\$158,608
<b>Total Costs</b>		<b>\$2,238,874</b>	<b>\$2,748,564</b>	<b>\$2,669,624</b>	<b>\$2,552,354</b>	<b>\$7,657,062</b>

[1] Each director is one respondent. One respondent may perform activities in more than one year. So to avoid double-counting, the respondent 3 year total, is the total number of directors that must perform one or more activities during the ICR approval period.

#### Federal Government

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total
		2014	2015	2016		
Burden (hours)	A8	1,876	1,669	1,943	1,829	5,488
Costs(labor)	A10	\$106,514	\$94,678	\$109,642	103,611	310,834
Costs (O&M)	A10	\$1,605	\$1,237	\$1,985	1,609	4,827
<b>Total Costs</b>		<b>\$108,119</b>	<b>\$95,915</b>	<b>\$111,627</b>	<b>\$105,220</b>	<b>\$315,661</b>

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

	Annual Average	Three Year Total
<b>Total Respondent Burden (hours)</b>	<b>1,010,021</b>	<b>3,030,064</b>
<b>Total Respondents (number)</b>	<b>514</b>	<b>548</b>
<b>Total Respondent Labor Costs</b>	<b>\$48,890,325</b>	<b>\$146,670,976</b>
<b>Total Respondent Capital and O&amp;M Costs</b>	<b>\$10,588,074</b>	<b>\$31,764,222</b>
<b>Total Respondent Cost for All Activities</b>	<b>\$59,478,399</b>	<b>\$178,435,198</b>

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