

SUPPORTING SPREADSHEETS  
FOR  
INFORMATION COLLECTION  
COSTS FOR SECTION 316(b) PHASE III  
FOR NEW OFFSHORE OIL AND GAS  
EXTRACTION FACILITIES

May-09

**(APPENDIX)**

**Exhibit A.1 (New Permits)**  
**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	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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)																		
Read and Understand Rule	6	6	6	18	12	12	0	0	0	0	0	1	25	\$1,602	\$0	\$0		450	\$28,836
Mobilization/Planning	6	6	6	18	4	8	0	0	0	0	0	1	13	\$711	\$0	\$0		234	\$12,802
Training	6	6	6	18	2	2	0	0	0	0	0	1	5	\$285	\$0	\$0		90	\$5,130
Other Direct Costs	6	6	6	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$60		-	\$1,080
<b>Totals</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>18</b>	<b>18</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>43</b>	<b>\$2,598</b>	<b>\$0</b>	<b>\$60</b>	<b>\$2,658</b>	<b>774</b>	<b>\$47,848</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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)																		
Statement of Compliance Option Selected	6	6	6	18	1	0	0	0	0	0	0	1	2	\$113	\$0	\$0		36	\$2,027
Source Water Physical Data	6	6	6	18	1	3	8	0	0	0	0	0	12	\$505	\$0	\$0		216	\$9,092
Configuration and Location of CWIS	6	6	6	18	1	1	2	0	0	0	0	0	4	\$205	\$0	\$0		72	\$3,685
Facility Water Balance Diagram	6	6	6	18	1	1	1	0	0	0	0	0	3	\$168	\$0	\$0		54	\$3,028
CWIS Operation Narrative	6	6	6	18	3	8	0	0	0	0	0	0	11	\$599	\$0	\$0		198	\$10,775
Engineering Calculations	6	6	6	18	2	6	0	0	0	0	0	0	8	\$426	\$0	\$0		144	\$7,672
Submit Materials for Review by Permitting Authority	6	6	6	18	0	0	0	0	0	0	0	6	6	\$130	\$0	\$0		108	\$2,333
Recordkeeping	6	6	6	18	1	1	1	0	0	0	0	2	5	\$211	\$0	\$0		90	\$3,805
Other Direct Costs	6	6	6	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$150		-	\$2,700
<b>Totals</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>18</b>									<b>51</b>	<b>\$2,356</b>	<b>\$0</b>	<b>\$150</b>	<b>\$2,506</b>	<b>918</b>	<b>\$45,115</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 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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)																		
Gather Information Characterizing Flow	6	6	6	18	0	8	0	0	0	0	0	0	8	\$326	\$0	\$0		144	\$5,861
Perform Engineering Calculations	6	6	6	18	4	12	4	0	0	0	0	0	20	\$998	\$0	\$0		360	\$17,971
Submit Data and Analysis for Review	6	6	6	18	0	0	0	0	0	0	0	4	4	\$86	\$0	\$0		72	\$1,555
Recordkeeping	6	6	6	18	0	4	0	0	0	0	0	2	6	\$206	\$0	\$0		108	\$3,708
Other Direct Costs	6	6	6	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$90		-	\$1,620
<b>Totals</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>18</b>									<b>38</b>	<b>\$1,616</b>	<b>\$0</b>	<b>\$90</b>	<b>\$1,706</b>	<b>684</b>	<b>\$30,715</b>

**Exhibit A.1d**  
**CWIS Velocity 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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)																		
Gather Data and Develop Narrative	6	6	6	18	16	40	0	0	0	0	0	0	56	\$3,084	\$0	\$0		1,008	\$55,512
Perform Engineering Calculations	6	6	6	18	8	32	4	0	0	0	0	0	44	\$2,176	\$0	\$0		792	\$39,175
Submit Data and Analysis for Review	6	6	6	18	0	0	0	0	0	0	0	16	16	\$346	\$0	\$0		288	\$6,221
Revise Based on Director review	6	6	6	18	4	16	0	0	0	0	0	0	20	\$1,015	\$0	\$0		360	\$18,274
Recordkeeping	6	6	6	18	2	4	0	0	0	0	0	8	14	\$518	\$0	\$0		252	\$9,317
Other Direct Costs	6	6	6	18	0	0	0	0	0	0	0	0	0	\$0	\$0	\$460		-	\$8,280
<b>Totals</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>18</b>									<b>150</b>	<b>\$7,139</b>	<b>\$0</b>	<b>\$460</b>	<b>\$7,599</b>	<b>2,700</b>	<b>\$136,778</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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)
Delineate Hydraulic Zone of Influence	6	6	6	18	1	1	2	0	0	0	0	0	4	\$205		\$0		72	\$3,685
Perform Engineering Calculations (Impingement)	6	6	6	18	1	2	0	0	0	0	0	0	3	\$172		\$0		54	\$3,103
Perform Engineering Calculations (Entrainment)	1	1	1	3	1	2	0	0	0	0	0	0	3	\$172		\$0		9	\$517
Document that Technologies Are Optimal	6	6	6	18	0	8	0	0	0	0	0	6	14	\$455		\$0		252	\$8,194
Submit Data and Analysis for Review	6	6	6	18	0	0	0	0	0	0	0	6	6	\$130		\$0		108	\$2,333
Recordkeeping	6	6	6	18	1	1	0	0	0	0	0	6	8	\$261		\$0		144	\$4,703
Other Direct Costs	6	6	6	18	0	0	0	0	0	0	0	0	0	\$0		\$150		-	\$2,700
<b>Totals</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>18</b>									<b>36</b>	<b>\$1,262</b>		<b>\$150</b>	<b>\$1,412</b>	<b>639</b>	<b>\$25,235</b>

**Exhibit A.1f**

**Source Water Baseline Biological Characterization Study**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Avg. Burden Per Facility over 3 yrs	Avg. Labor Cost per Facility for 3 yrs	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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)
Install Remote Monitoring Device for Impingement Monitoring	6	6	6	18	0	0	0	0	0	0	0	0	0	\$0	\$23,140	\$0		-	\$416,520
Use Regional Study Results for Individual Facility Studies	6	6	6	18	40	80	0	2	4	0	0	0	126	\$7,390	\$0	\$0		2,268	\$133,027
Finalize Individual Study based on Director review	6	6	6	18	8	24	0	0	0	0	0	8	40	\$1,878	\$0	\$0		720	\$33,797
<b>Totals</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>									<b>166</b>	<b>\$9,268</b>	<b>\$24,501</b>	<b>\$0</b>	<b>\$33,769</b>	<b>2,988</b>	<b>\$583,344</b>

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

	Facilities (Respondents)				Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total		
<b>Totals</b>					<b>8,703</b>	<b>\$869,035</b>

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

**Exhibit A.1 (Renewals)  
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	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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)
Read and Understand Rule	0	7	6	13	4	4	0	0	0	0	0	0	8	\$527	\$0	\$0		104	\$6,848
Mobilization/Planning	0	7	6	13	1	2	0	0	0	0	0	0	3	\$172	\$0	\$0		39	\$2,241
Training	0	7	6	13	1	1	0	0	0	0	0	0	2	\$132	\$0	\$0		26	\$1,712
Other Direct Costs	0	7	6	13	0	0	0	0	0	0	0	0	0	\$0	\$0	\$60		-	\$780
<b>Totals</b>	<b>0</b>	<b>7</b>	<b>6</b>	<b>13</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>\$831</b>	<b>\$0</b>	<b>\$60</b>	<b>\$891</b>	<b>169</b>	<b>\$11,582</b>

**Exhibit A.1b (Renewals)  
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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)
Statement of Compliance Option Selected	0	0	7	7	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0		-	\$0
Source Water Physical Data	0	0	7	7	0	1	2	0	0	0	0	0	3	\$114	\$0	\$0		21	\$796
Configuration and Location of CWIS	0	0	7	7	0	0	1	0	0	0	0	0	1	\$37	\$0	\$0		7	\$256
Facility Water Balance Diagram	0	0	7	7	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0		-	\$0
CWIS Operation Narrative	0	0	7	7	1	2	0	0	0	0	0	0	3	\$172	\$0	\$0		21	\$1,207
Engineering Calculations	0	0	7	7	1	2	0	0	0	0	0	0	3	\$172	\$0	\$0		21	\$1,207
Submit Materials for Review by Permitting Authority	0	0	7	7	0	0	0	0	0	0	0	2	2	\$43	\$0	\$0		14	\$302
Recordkeeping	0	0	7	7	0	0	0	0	0	0	0	1	1	\$22	\$0	\$0		7	\$151
Other Direct Costs	0	0	7	7	0	0	0	0	0	0	0	0	0	\$0	\$0	\$150		-	\$1,050
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>									<b>13</b>	<b>\$560</b>	<b>\$0</b>	<b>\$150</b>	<b>\$710</b>	<b>91</b>	<b>\$4,969</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 (Renewals)  
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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)
Gather Information Characterizing Flow	0	0	7	7	0	2	0	0	0	0	0	0	2	\$81	\$0	\$0		14	\$570
Perform Engineering Calculations	0	0	7	7	1	4	1	0	0	0	0	0	6	\$290	\$0	\$0		42	\$2,032
Submit Data and Analysis for Review	0	0	7	7	0	0	0	0	0	0	0	1	1	\$22	\$0	\$0		7	\$151
Recordkeeping	0	0	7	7	0	1	0	0	0	0	0	1	2	\$62	\$0	\$0		14	\$436
Other Direct Costs	0	0	7	7	0	0	0	0	0	0	0	0	0	\$0	\$0	\$90		-	\$630
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>									<b>11</b>	<b>\$456</b>	<b>\$0</b>	<b>\$90</b>	<b>\$546</b>	<b>77</b>	<b>\$3,819</b>

**Exhibit A.1d (Renewals)  
CWIS Velocity 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														
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22							
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)
Gather Data and Develop Narrative	0	0	7	7	5	12	0	0	0	0	0	0	17	\$943	\$0	\$0		119	\$6,604
Perform Engineering Calculations	0	0	7	7	2	10	1	0	0	0	0	0	13	\$626	\$0	\$0		91	\$4,379
Submit Data and Analysis for Review	0	0	7	7	0	0	0	0	0	0	0	5	5	\$108	\$0	\$0		35	\$756
Revise Based on Director review	0	0	7	7	1	5	0	0	0	0	0	0	6	\$295	\$0	\$0		42	\$2,062
Recordkeeping	0	0	7	7	1	1	0	0	0	0	0	2	4	\$175	\$0	\$0		28	\$1,224
Other Direct Costs	0	0	7	7	0	0	0	0	0	0	0	0	0	\$0	\$460	\$0		-	\$3,220
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>									<b>45</b>	<b>\$2,146</b>	<b>\$460</b>	<b>\$2,606</b>	<b>\$2,606</b>	<b>315</b>	<b>\$18,244</b>

**Exhibit A.1e (Renewals)**

**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															
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22								
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)	
Delineate Hydraulic Zone of Influence	0	0	7	7	1	1	1	0	0	0	0	0	3	\$168		\$0		21	\$1,177	
Perform Engineering Calculations (Impingement)	0	0	6	6	1	1	0	0	0	0	0	0	2	\$132		\$0		12	\$790	
Perform Engineering Calculations (Entrainment)	0	0	2	2	1	1	0	0	0	0	0	0	2	\$132		\$0		4	\$263	
Document that Technologies Are Optimal	0	0	7	7	0	4	0	0	0	0	0	3	7	\$228		\$0		49	\$1,593	
Submit Data and Analysis for Review	0	0	7	7	0	0	0	0	0	0	0	3	3	\$65		\$0		21	\$454	
Recordkeeping	0	0	7	7	1	1	0	0	0	0	0	3	5	\$197		\$0		35	\$1,376	
Other Direct Costs	0	0	7	7	0	0	0	0	0	0	0	0	0	\$0		\$150		-	\$1,050	
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>									<b>20</b>	<b>\$808</b>		<b>\$150</b>		<b>\$958</b>	<b>142</b>	<b>\$6,703</b>

**Exhibit A.1f (Renewals)**

**Source Water Baseline Biological Characterization Study**

Activity	Facilities (Respondents)				Facility Manager	Junior Technical	CAD Operator	Contracted Manager	Biologist	Statistician	Biological Technician	Clerical	Avg. Burden Per Facility over 3 yrs	Avg. Labor Cost per Facility for 3 yrs	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															
	A				\$91	\$41	\$37	\$115	\$66	\$75	\$41	\$22								
	Level of Effort (hrs)												B	C	D	E	C+D+E	A*B	A*(C+D+E)	
Use Regional Study Results for Individual Facility Studies	0	0	7	7	12	24	0	1	1	0	0	0	38	\$2,250	\$0	\$0		266	\$15,749	
Finalize Individual Study based on Director review	0	0	7	7	2	7	0	0	0	0	0	2	11	\$510	\$0	\$0		77	\$3,571	
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>									<b>49</b>	<b>\$2,760</b>	<b>\$0</b>	<b>\$0</b>		<b>\$2,760</b>	<b>343</b>	<b>\$19,320</b>

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

	Facilities (Respondents)				Total Burden (hrs.)	Total Initial Cost
	Year 1	Year 2	Year 3	Total		
<b>Totals</b>					<b>1,137</b>	<b>\$64,637</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  
Biological Monitoring for Impingement**

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	\$91	\$41	\$115	\$66	\$75	\$41	\$22						
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Monthly Sample Collection	18	24	30	30	0	0	0	144	0	144	0	288	\$15,379	\$0		20,736	\$1,107,302
Operation & Maintenance of Remote Monitoring Device	18	24	30	30	0	0	0	0	0	0	0	0	\$0	\$11,570		-	\$833,040
Review of Video for Taxonomic Identification	18	24	30	30	0	0	12	96	0	48	0	156	\$9,679	\$0		11,232	\$696,902
Perform Statistical Analysis	18	24	30	30	12	4	6	0	36	0	0	58	\$4,645	\$0		4,176	\$334,426
Recordkeeping	18	24	30	30	1	1	1	7	1	0	16	28	\$1,187	\$0		1,987	\$85,464
Other Direct Costs	18	24	30	30	0	0	0	0	0	0	0	0	\$0	\$790		-	\$56,880
<b>Totals</b>	<b>18</b>	<b>24</b>	<b>30</b>	<b>30</b>	<b>13</b>	<b>5</b>	<b>19</b>	<b>247</b>	<b>37</b>	<b>192</b>	<b>16</b>	<b>530</b>	<b>\$30,890</b>	<b>\$12,360</b>	<b>\$43,250</b>	<b>38,131</b>	<b>\$3,114,014</b>

**Exhibit A.2b  
Biological Monitoring for Entrainment**

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	\$91	\$41	\$115	\$66	\$75	\$41	\$22						
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Helicopter Transportation to and from Facility	4	5	6	6	0	0	0	0	0	0	0	0	\$0	\$13,880		-	\$208,200
Monthly Sample Collection	4	5	6	6	0	0	0	144	0	144	0	288	\$15,379	\$0		4,320	\$230,688
Laboratory Identifies & Enumerates Entrained Marine Biota	4	5	6	6	0	0	0	0	0	0	0	0	\$0	\$3,610		-	\$54,150
Perform Statistical Analysis	4	5	6	6	12	4	6	0	36	0	0	58	\$4,645	\$0		870	\$69,672
Recordkeeping	4	5	6	6	1	1	1	4	1	0	16	24	\$966	\$0		365	\$14,493
Other Direct Costs	4	5	6	6	0	0	0	0	0	0	0	0	\$0	\$790		-	\$11,850
<b>Totals</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>13</b>	<b>5</b>	<b>7</b>	<b>148</b>	<b>37</b>	<b>144</b>	<b>16</b>	<b>370</b>	<b>\$20,990</b>	<b>\$18,280</b>	<b>\$39,270</b>	<b>5,555</b>	<b>\$589,053</b>

**Exhibit A.2c  
Biological Monitoring for Entrainment (Alaska)**

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	\$91	\$41	\$115	\$66	\$75	\$41	\$22						
	A				Level of Effort (hrs)							B	C	D	C+D	A*B	A*(C+D)
Helicopter Transportation to and from Facility in Alaska	1	1	1	1	0	0	0	0	0	0	0	0	\$0	\$20,820		-	\$62,460
Monthly Sample Collection	1	1	1	1	0	0	0	216	0	216	0	432	\$23,069	\$0		1,296	\$69,206
Laboratory Identifies & Enumerates Entrained Marine Biota	1	1	1	1	0	0	0	0	0	0	0	0	\$0	\$3,610		-	\$10,830
Perform Statistical Analysis	1	1	1	1	12	4	6	0	36	0	0	58	\$4,645	\$0		174	\$13,934
Recordkeeping	1	1	1	1	1	1	1	6	1	0	16	26	\$1,098	\$0		79	\$3,295
Other Direct Costs	1	1	1	1	0	0	0	0	0	0	0	0	\$0	\$790		-	\$2,370
<b>Totals</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>13</b>	<b>0</b>	<b>7</b>	<b>222</b>	<b>37</b>	<b>216</b>	<b>16</b>	<b>516</b>	<b>\$28,812</b>	<b>\$25,220</b>	<b>\$54,032</b>	<b>1,549</b>	<b>\$162,096</b>

**Exhibit A.2d**

**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	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)	
	A				\$91	\$41	\$115	\$66	\$75	\$41							\$22
	A				Level of Effort (hrs)						B	C	D	C+D	A*B	A*(C+D)	
Monitor Average Through Technology	19	25	31	31	2	100	0	0	0	0	0	102	\$4,252	\$0		7,650	\$318,900
Analyze Data	19	25	31	31	4	40	0	0	0	0	0	44	\$1,992	\$0		3,300	\$149,400
Recordkeeping	19	25	31	31	1	8	0	0	0	0	8	17	\$589	\$0		1,275	\$44,205
Other Direct Costs	19	25	31	31	0	0	0	0	0	0	0	0	\$0	\$580		-	\$43,500
<b>Totals</b>	<b>19</b>	<b>25</b>	<b>31</b>	<b>31</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>\$6,833</b>	<b>\$580</b>	<b>\$7,413</b>	<b>12,225</b>	<b>\$556,005</b>

**Exhibit A.2e**

**Visual Inspections**

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	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)	
	A				\$91	\$41	\$115	\$66	\$75	\$41							\$22
	A				Level of Effort (hrs)						B	C	D	C+D	A*B	A*(C+D)	
Visually Inspect All Installed Technologies	18	24	30	30	24	208	0	0	0	0	0	232	\$10,650	\$0		16,704	\$766,771
Recordkeeping	18	24	30	30	3	16	0	0	0	0	2	21	\$967	\$0		1,512	\$69,653
<b>Totals</b>	<b>18</b>	<b>24</b>	<b>30</b>	<b>30</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>\$11,617</b>	<b>\$0</b>	<b>\$0</b>	<b>18,216</b>	<b>\$836,424</b>

**Exhibit A.2f**

**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	Assumed Loaded Hourly Rate						Burden (hrs)	Labor Cost	O & M Costs	Total Costs**	Burden (hrs.)	Total Cost (\$)	
	A				\$91	\$41	\$115	\$66	\$75	\$41							\$22
	A				Level of Effort (hrs)						B	C	D	C+D	A*B	A*(C+D)	
Report on Inspection and Maintenance	19	25	31	31	16	16	0	0	0	0	0	32	\$2,107	\$0		2,400	\$158,040
Detail Biological Monitoring Results	19	25	31	31	12	16	8	8	12	0	0	56	\$4,092	\$0		4,200	\$306,900
Detail Velocity Monitoring Results	19	25	31	31	8	16	0	0	0	0	0	24	\$1,379	\$0		1,800	\$103,440
Compile and Submit Report	19	25	31	31	40	40	0	0	0	0	16	96	\$5,614	\$0		7,200	\$421,020
Recordkeeping	19	25	31	31	2	2	1	1	1	0	8	15	\$692	\$0		1,125	\$51,923
Other Direct Costs	19	25	31	31	0	0	0	0	0	0	0	0	\$0	\$910		-	\$68,250
<b>Totals</b>	<b>19</b>	<b>25</b>	<b>31</b>	<b>31</b>	<b>78</b>	<b>90</b>	<b>9</b>	<b>9</b>	<b>13</b>	<b>0</b>	<b>24</b>	<b>223</b>	<b>\$13,884</b>	<b>\$910</b>	<b>\$14,794</b>	<b>16,725</b>	<b>\$1,109,573</b>

**Total Cost for All NPDES Application Activities**

	Facilities (Respondents)				Total Burden (hrs.)	Total Annual Cost
	Year 1	Year 2	Year 3	Total		
<b>Totals</b>					<b>74,185</b>	<b>\$5,530,741</b>

Exhibit A.3

Director Burden and Cost Estimates for Activities

Exhibit A.3a

Director Start-up Activities

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Director	Labor Cost per Director	ODCs lump sum*	Total Cost Per Director	Total Burden (hrs.)	Total Initial Cost
		Assumed Loaded Hourly Rate								
		\$48	\$31	\$24						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Read and Understand Rule	-	12	12	0	24	\$948	\$0		-	\$0
Mobilization/Planning	-	24	16	0	40	\$1,648	\$0		-	\$0
Training	-	4	32	0	36	\$1,184	\$0		-	\$0
Other Direct Costs	-	0	0	0	-	\$0	\$60		-	\$0
<b>Totals</b>	<b>-</b>	<b>40</b>	<b>60</b>	<b>0</b>	<b>100</b>	<b>\$3,780</b>	<b>\$60</b>	<b>\$3,840</b>	<b>-</b>	<b>\$0</b>

Exhibit A.3b

Director Permit Issuance Activities

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Initial Cost*
		Assumed Loaded Hourly Rate								
		\$48	\$31	\$24						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review Source Water Physical Data	18	2	6	0	8	\$282	\$0		144	\$5,076
Review CWIS Data	18	6	18	0	24	\$846	\$0		432	\$15,228
Review Source Water Body Flow Information	18	2	6	0	8	\$282	\$0		144	\$5,076
Review CWIS Velocity Information	18	16	16	0	32	\$1,264	\$0		576	\$22,752
Review Design and Construction Technology Plan	18	24	8	0	32	\$1,400	\$0		576	\$25,200
Review Source Water Baseline Biological Characterization Study	18	40	25	0	65	\$2,695	\$0		1,170	\$48,510
Determine Monitoring Frequency	18	2	6	0	8	\$282	\$0		144	\$5,076
Determine Record keeping and Reporting Frequency	18	2	6	0	8	\$282	\$0		144	\$5,076
Considering Public Comments	18	16	16	0	32	\$1,264	\$0		576	\$22,752
Issuing Permit	18	1	6	1	8	\$258	\$0		144	\$4,635
Permit Record Keeping	18	1	1	2	4	\$126	\$0		72	\$2,268
Other Direct Costs	18	0	0	0	-	\$0	\$360		-	\$6,480
<b>Totals</b>	<b>18</b>	<b>452</b>	<b>188</b>	<b>3</b>	<b>229</b>	<b>\$8,981</b>	<b>360</b>	<b>\$9,341</b>	<b>4,122</b>	<b>\$168,129</b>



Exhibit A.3c  
Annual Director Activities

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Annual Cost
		Assumed Loaded Hourly Rate								
		\$48	\$31	\$24						
	A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)
Review of Yearly Status Report	75	6	12	0	18	\$660	\$0		1,350	\$49,500
Compliance Tracking	75	4	12	0	16	\$564	\$0		1,200	\$42,300
Determination on Monitoring Frequency Reduction	75	4	8	0	12	\$440	\$0		900	\$33,000
Record Keeping	75	1	2	1	4	\$134	\$0		300	\$10,013
Other Direct Costs	75	0	0	0	-	\$0	\$30		-	\$2,250
<b>Totals</b>	<b>75</b>	<b>15</b>	<b>34</b>	<b>1</b>	<b>50</b>	<b>\$1,798</b>	<b>\$30</b>	<b>\$1,828</b>	<b>3,750</b>	<b>\$137,063</b>

Total Burden and Cost for All Director Activities

				Total Burden (hrs.)	Total Initial Cost
<b>Totals</b>				<b>7,872</b>	<b>\$305,192</b>

Exhibit A.3b (Renewals)

Director Burden and Cost Estimates for Permit Renewal

Activity	Directors (Responses)	Senior Technical	Junior Technical	Clerical	Burden Per Permit	Labor Cost per Permit	ODCs lump sum*	Total Cost Per Permit	Total Burden (hrs.)	Total Initial Cost*
		Assumed Loaded Hourly Rate								
		\$48	\$31	\$24						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review Source Water Physical Data	7	2	0	2	4	\$143	\$0		28	\$1,001
Review CWIS Data	7	5	0	7	12	\$405	\$0		84	\$2,832
Review Source Water Body Flow Information	7	2	0	2	4	\$143	\$0		28	\$1,001
Review CWIS Velocity Information	7	5	0	10	15	\$475	\$0		105	\$3,325
Review Design and Construction Technology Plan	7	2	0	10	12	\$331	\$0		84	\$2,317
Review Source Water Baseline Biological Characterization Study	7	8	0	20	28	\$854	\$0		196	\$5,978
Determine Monitoring Frequency	7	2	0	2	4	\$143	\$0		28	\$1,001
Determine Record keeping and Reporting Frequency	7	2	0	2	4	\$143	\$0		28	\$1,001
Considering Public Comments	7	5	0	10	15	\$475	\$0		105	\$3,325
Issuing Permit	7	2	0	2	4	\$143	\$0		28	\$1,001
Permit Record Keeping	7	0	1	1	2	\$55	\$0		14	\$382
<b>Totals</b>	<b>7</b>	<b>35</b>	<b>1</b>	<b>68</b>	<b>104</b>	<b>3,309</b>	<b>\$360</b>	<b>\$3,309</b>	<b>728</b>	<b>\$23,163</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								
		\$48	\$31	\$24						
A	Level of Effort (hrs)			B	C	D	C+D	A*B	A*(C+D)	
Review Source Water Physical Data	-	0	0	0	-	\$0			-	\$0
Review CWIS Data	-	0	0	0	-	\$0			-	\$0
Review Source Water Body Flow Information	-	0	0	0	-	\$0			-	\$0
Review CWIS Velocity Information	-	0	0	0	-	\$0			-	\$0
Review Design and Construction Technology Plan	-	0	0	0	-	\$0			-	\$0
Review Regional Monitoring Study Design and Sampling Plans	-	0	0	0	-	\$0			-	\$0
Review Regional Monitoring Study	-	0	0	0	-	\$0			-	\$0
Review Source Water Baseline Biological Characterization Study	-	0	0	0	-	\$0			-	\$0
Review Pilot Study for New Impingement & Entrainment Technology	-	0	0	0	-	\$0			-	\$0
Review the Monitoring Frequency	-	0	0	0	-	\$0			-	\$0
Permit Record Keeping	-	0	0	0	-	\$0			-	\$0
<b>Totals</b>	-	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	-	<b>\$0</b>

**Exhibit A.5**

**Respondents for the ICR Approval Period Year by Year by Activity**

**Facilities**

	Year 1	Year 2	Year 3	Annual Average <sup>1</sup>
	2010	2011	2012	
Start-up Activities	6	13	12	10
Permit Application Activities	6	6	13	8
Source Water Body Flow Information	6	6	13	8
CWIS Velocity Information	6	6	13	8
Design and Construction Technology Plan (Impingement Only)	5	5	10	7
Design and Construction Technology Plan (Entrainment Only)	0	0	1	0
Design and Construction Technology Plan (Impingement & Entrainment)	1	1	2	1
<a href="#">Use Regional Study Results for Individual Facility Studies</a>	6	6	13	8
Biological Monitoring for Impingement	18	24	30	24
Biological Monitoring for Entrainment	4	5	6	5
Biological Monitoring for Entrainment (Alaska)	1	1	1	1
Velocity Monitoring	19	25	31	25
Visual Inspections	18	24	30	24
Yearly Status Report Activities	19	25	31	25
<b>Respondents</b>	<b>31</b>	<b>37</b>	<b>43</b>	<b>37</b>

**Directors**

	Year 1	Year 2	Year 3	Annual Average <sup>2</sup>
	2010	2011	2012	
Director Start-up Activities	0	0	0	0
Director Permit Issuance Activities				
Review Permit Application Information	2	2	3	2
Review Source Water Body Flow Information	2	2	3	2
Review CWIS Velocity Information	2	2	3	2
Review Design and Construction Technology Plan	2	2	3	2
Review Source Water Baseline Biological Characterization Study	2	2	3	2
Determine Monitoring Frequency	2	2	3	2
Determine Permit Requirements and Issue Permit	2	2	3	2
Annual Director Activities				
Review of Yearly Status Report	3	3	3	3
Compliance Tracking	3	3	3	3
Determination on Monitoring Frequency Reduction	3	3	3	3
Record Keeping	3	3	3	3
<b>Respondents</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**Sum for Facilities and Directors**

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
<b>Facilities</b>	31	37	43	37
<b>Directors</b>	3	3	3	3
<b>Yearly Total</b>	<b>34</b>	<b>40</b>	<b>46</b>	<b>40</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 Approval Period Year by Year by Activity**

**Facilities**

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
Start-up Activities	6	13	12	10
Permit Application Activities	6	6	13	8
Source Water Body Flow Information	6	6	13	8
CWIS Velocity Information	6	6	13	8
Design and Construction Technology Plan (Impingement Only)	5	5	10	7
Design and Construction Technology Plan (Entrainment Only)	0	0	1	0
Design and Construction Technology Plan (Impingement & Entrainment)	1	1	2	1
Use Regional Study Results for Individual Facility Studies	6	6	13	8
Biological Monitoring for Impingement	18	24	30	24
Biological Monitoring for Entrainment	4	5	6	5
Biological Monitoring for Entrainment (Alaska)	1	1	1	1
Velocity Monitoring	19	25	31	25
Visual Inspections	18	24	30	24
Yearly Status Report Activities	19	25	31	25
<b>Responses</b>	<b>115</b>	<b>147</b>	<b>206</b>	<b>156</b>

**Directors**

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
Director Start-up Activities	0	0	0	0
Director Permit Issuance Activities				
Review Permit Application Information	6	6	13	8
Review Source Water Body Flow Information	6	6	13	8
Review CWIS Velocity Information	6	6	13	8
Review Design and Construction Technology Plan	6	6	13	8
Review Source Water Baseline Biological Characterization Study	6	6	6	6
Determine Monitoring Frequency	6	6	13	8
Determine Permit Requirements and Issue Permit	6	6	13	8
Annual Director Activities				
Review of Yearly Status Report	19	25	31	25
Compliance Tracking	19	25	31	25
Determination on Monitoring Frequency Reduction	19	25	31	25
Record Keeping	19	25	31	25
<b>Responses</b>	<b>118</b>	<b>142</b>	<b>208</b>	<b>156</b>

**Sum for Facilities and Directors**

	Year 1	Year 2	Year 3	Annual Average
	2010	2011	2012	
<b>Facilities</b>	115	147	206	156
<b>Directors</b>	118	142	208	156
<b>Yearly Total</b>	<b>233</b>	<b>289</b>	<b>414</b>	<b>312</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
		2010	2011	2012	
<b>NPDES Permit Application Activities</b>					
Start-up Activities	A1a	258	349	336	314
Permit Application Activities	A1b	306	306	397	336
Source Water Body Flow Information	A1c	228	228	305	254
CWIS Velocity Information	A1d	900	900	1,215	1,005
Design and Construction Technology Plan (Impingement Only)	A1e	175	175	275	208
Design and Construction Technology Plan (Entrainment Only)	A1e	0	0	20	7
Design and Construction Technology Plan (Impingement & Entrainment)	A1e	38	38	60	45
Use Regional Study Results for Individual Facility Studies	A1f	996	996	1,339	1,110
<b>NPDES Permit Application Activity Total</b>		<b>2,901</b>	<b>2,992</b>	<b>3,947</b>	<b>3,280</b>
<b>Annual Activities</b>					
Biological Monitoring for Impingement	A2a	9,533	12,710	15,888	12,710
Biological Monitoring for Entrainment	A2b	1,481	1,852	2,222	1,852
Biological Monitoring for Entrainment (Alaska)	A2c	516	516	516	516
Velocity Monitoring	A2d	3,097	4,075	5,053	4,075
Visual Inspections	A2e	4,554	6,072	7,590	6,072
Yearly Status Report Activities	A2f	4,237	5,575	6,913	5,575
<b>Annual Activity Yearly Labor Total</b>		<b>23,418</b>	<b>30,800</b>	<b>38,182</b>	<b>30,800</b>
<b>Yearly Labor Total</b>		<b>26,319</b>	<b>33,792</b>	<b>42,129</b>	<b>34,080</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
		2010	2011	2012	
Director Start-up Activities	A3a	0	0	0	0
Director Permit Issuance Activities	A3b	1,374	1,374	2,102	1,617
Annual Director Activities	A3e	950	1,250	1,550	1,250
<b>Yearly Total</b>		<b>2,324</b>	<b>2,624</b>	<b>3,652</b>	<b>2,867</b>

#### Federal Activities

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Federal Permit Program Oversight Activities	A4a	0	0	0	0
<b>Yearly Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</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
		2010	2011	2012	
<b>NPDES Permit Application Activities</b>					
Start-up Activities	A1a	\$15,589	\$21,406	\$20,575	\$19,190
Permit Application Activities	A1b	\$14,138	\$14,138	\$18,057	\$15,445
Source Water Body Flow Information	A1c	\$9,698	\$9,698	\$12,888	\$10,761
CWIS Velocity Information	A1d	\$42,833	\$42,833	\$57,857	\$47,841
Design and Construction Technology Plan (Impingement Only)	A1e	\$6,116	\$6,116	\$10,060	\$7,431
Design and Construction Technology Plan (Entrainment Only)	A1e	\$0	\$0	\$789	\$263
Design and Construction Technology Plan (Impingement & Entrainment)	A1e	\$1,396	\$1,396	\$2,316	\$1,702
Use Regional Study Results for Individual Facility Studies	A1f	\$55,608	\$55,608	\$74,928	\$62,048
<b>NPDES Permit Application Activity Total</b>		<b>\$145,378</b>	<b>\$151,195</b>	<b>\$197,469</b>	<b>\$164,681</b>
<b>Annual Activities</b>					
Biological Monitoring for Impingement	A2a	\$556,024	\$741,365	\$926,706	\$741,365
Biological Monitoring for Entrainment	A2b	\$83,961	\$104,951	\$125,941	\$104,951
Biological Monitoring for Entrainment (Alaska)	A2c	\$28,812	\$28,812	\$28,812	\$28,812
Velocity Monitoring	A2d	\$129,835	\$170,835	\$211,835	\$170,835
Visual Inspections	A2e	\$209,106	\$278,808	\$348,510	\$278,808
Yearly Status Report Activities	A2f	\$263,802	\$347,108	\$430,413	\$347,108
<b>Annual Activity Yearly Labor Total</b>		<b>\$1,271,539</b>	<b>\$1,671,878</b>	<b>\$2,072,218</b>	<b>\$1,671,878</b>
<b>Yearly Labor Total</b>		<b>\$1,416,917</b>	<b>\$1,823,073</b>	<b>\$2,269,687</b>	<b>\$1,836,559</b>

**Facility O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
<b>NPDES Application</b>					
Install Remote Monitoring Device for Impingement Monitoring	A.1f	\$138,840	\$138,840	\$138,840	\$138,840
Other Direct Costs	A.1a-g	\$5,460	\$5,880	\$11,770	\$7,703
<b>Annual</b>					
Operation & Maintenance of Remote Monitoring Device	A.2a	\$208,260	\$277,680	\$347,100	\$277,680
Helicopter Transportation to and from Facility	A.2c	\$55,520	\$69,400	\$83,280	\$69,400
Helicopter Transportation to and from Facility in Alaska	A.2d	\$20,820	\$20,820	\$20,820	\$20,820
Laboratory Identifies & Enumerates Entrained Marine Biota	A.2c&d	\$18,050	\$21,660	\$25,270	\$21,660
Other Direct Costs	A.2a-g	\$46,480	\$60,950	\$75,420	\$60,950
<b>Equipment Cost Subtotal</b>		<b>\$423,440</b>	<b>\$506,740</b>	<b>\$590,040</b>	<b>\$506,740</b>
<b>Laboratory Analysis Subtotal</b>		<b>\$18,050</b>	<b>\$21,660</b>	<b>\$25,270</b>	<b>\$21,660</b>
<b>Other Direct Costs Subtotal</b>		<b>\$51,940</b>	<b>\$66,830</b>	<b>\$87,190</b>	<b>\$68,653</b>
<b>Yearly O&amp;M Total</b>		<b>\$493,430</b>	<b>\$595,230</b>	<b>\$702,500</b>	<b>\$597,053</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
		2010	2011	2012	
Director Start-up Activities	A3a	\$0	\$0	\$0	\$0
Director Permit Issuance Activities	A3b	\$53,883	\$53,883	\$77,046	\$61,604
Annual Director Activities	A3e	\$34,153	\$44,938	\$55,723	\$44,938
<b>Yearly Total</b>		<b>\$88,036</b>	<b>\$98,821</b>	<b>\$132,769</b>	<b>\$106,542</b>

**Director O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
<b>Start-Up &amp; NPDES Application</b>					
Other Direct Costs	A3a-b	\$2,160	\$2,160	\$4,680	\$3,000
<b>Annual</b>					
Other Direct Costs	A3c-d	\$570	\$750	\$930	\$750
<b>Yearly O&amp;M Cost Total</b>		<b>\$2,730</b>	<b>\$2,910</b>	<b>\$5,610</b>	<b>\$3,750</b>

**Federal Labor Activities**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Federal Permit Program Oversight Activities	A4a	0	0	0	\$0
<b>Yearly Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Federal O&M**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average
		2010	2011	2012	
Federal Permit Program Oversight ODCs	A4a	\$0	\$0	\$0	\$0
<b>Yearly Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</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 <sup>1</sup>
		2010	2011	2012		
Burden (hours)	A7	26,319	33,792	42,129	34,080	102,241
Respondents (number)	A5	31	37	43	37	43
Responses (number)	A6	115	147	206	156	468
Costs (labor)	A9	\$1,416,917	\$1,823,073	\$2,269,687	\$1,836,559	\$5,509,677
Costs (Equipment)	A9	\$423,440	\$506,740	\$590,040	\$506,740	\$1,520,220
Costs (Lab Analysis)	A9	\$18,050	\$21,660	\$25,270	\$21,660	\$64,980
Costs (Other Direct Costs)	A9	\$51,940	\$66,830	\$87,190	\$68,653	\$205,960
<b>Total Costs</b>		<b>\$1,910,347</b>	<b>\$2,418,303</b>	<b>\$2,972,187</b>	<b>\$2,433,612</b>	<b>\$7,300,837</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 (EPA Region)**

	Source (Exhibit)	Year 1	Year 2	Year 3	Annual Average	Three Year Total <sup>1</sup>
		2010	2011	2012		
Burden (hours)	A8	2,324	2,624	3,652	2,867	8,600
Respondents (number)	A5	3	3	3	3	3
Responses (number)	A6	118	142	208	156	468
Costs (labor)	A10	\$88,036	\$98,821	\$132,769	\$106,542	\$319,625
Costs (Other Direct Costs)	A10	\$2,730	\$2,910	\$5,610	\$3,750	\$11,250
<b>Total Costs</b>		<b>\$90,766</b>	<b>\$101,731</b>	<b>\$138,379</b>	<b>\$110,292</b>	<b>\$330,875</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
		2010	2011	2012		
Burden (hours)	A8	-	-	-	-	-
Costs (labor)	A10	\$0	\$0	\$0	\$0	\$0
Costs (O&M)	A10	\$0	\$0	\$0	\$0	\$0
<b>Total Costs</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

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

	Annual Average	Three Year Total
Total Respondent Burden (hours)	36,947	110,841
Total Respondents (number)	40	46
Total Respondent Labor Costs	\$1,943,101	\$5,829,302
Total Respondent Capital and O&M Costs	\$600,803	\$1,802,410
<b>Total Respondent Cost for All Activities</b>	<b>\$2,543,904</b>	<b>\$7,631,712</b>

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