

APPENDIX G
UNIT COST MODEL AND FREQUENCY FACTOR
RESULTS FOR MODEL FACILITIES

Table G-1. Unit Cost Model and Frequency Factor Results for Model Facilities: Option 1

Species	Model	Regulatory Option 1 Unit Costs and Frequency Factors									
		FM Capital (\$)	FM O&M (\$)	FM Frequency Factor	QZ Capital (\$)	QZ O&M (\$)	QZ Frequency Factor	SB Capital (\$)	SB O&M (\$)	SB Frequency Factor	
Trout-Food-size-Commercial-Flow-through	Medium	-	-	-	7,195.56	4,339.28	0.91	26,343.55	3,887.96	0.91	
Trout-Food-size-Commercial-Flow-through	Large	-	-	-	53,367.07	28,974.66	1.00	286,015.67	5,461.58	1.00	
Trout-Food-size-State-Flow-through	Medium	-	-	-	7,795.19	4,659.22	1.00	30,162.01	3,912.58	1.00	
Trout-Food-size-State-Flow-through	Large	-	-	-	11,992.60	6,898.80	1.00	63,242.13	4,122.27	1.00	
Trout-Stockers-Commercial-Flow-through	Medium	-	-	-	6,595.93	4,019.34	1.00	24,259.24	3,876.38	1.00	
Trout-Stockers-Federal-Flow-through	Medium	-	-	-	7,195.56	4,339.28	0.57	26,285.19	3,887.48	0.57	
Trout-Stockers-Federal-Flow-through	Large	-	-	-	29,381.87	16,177.06	0.50	157,030.04	4,685.71	0.50	
Trout-Stockers-State-Flow-through	Medium	-	-	-	7,195.56	4,339.28	0.91	27,629.59	3,898.41	0.91	
Trout-Stockers-State-Flow-through	Large	-	-	-	10,793.34	6,258.92	1.00	56,987.49	4,085.06	1.00	
Trout-Stockers-Other-Flow-through	Medium	-	-	-	12,592.23	7,218.74	1.00	47,494.59	4,006.35	1.00	
Trout-Stockers-Other-Flow-through	Large	-	-	-	10,193.71	5,938.98	1.00	54,874.86	4,074.18	1.00	
Tilapia-Food-size Commercial-Flow-through	Medium	-	-	-	8,394.82	4,979.16	0.67	30,978.03	3,913.85	0.67	
Tilapia-Food-size Commercial-Flow-through	Large	-	-	-	21,586.68	12,017.84	1.00	114,695.32	4,431.48	1.00	
Tilapia-Food-size Commercial-Recirculating	Large	-	-	-	-	-	-	20,661.44	3,944.30	1.00	
Striped Bass-Food-size Commercial-Flow-through	Medium	-	-	-	3,911.33	2,586.94	1.00	15,226.05	3,829.07	1.00	
Striped Bass-Food-size Commercial-Recirculating	Large	-	-	-	-	-	-	72,246.56	4,331.27	1.00	
Salmon-Food-size-Other-Flow-through	Large	-	-	-	50,368.92	27,374.96	1.00	270,766.77	5,372.23	1.00	
Salmon-Food-size-Commercial-Net pen	Large	0	3,753.36	0.88	-	-	-	-	-	-	

Note: FM = feed management; QZ = quiescent zone; SB = settling basin.

<i>Regulatory Option 1 Unit Costs and Frequency Factors (continued)</i>							
<i>Species</i>	<i>Model</i>	<i>BMP Plan Capital (\$)</i>	<i>BMP Plan O&M (\$)</i>	<i>BMP Plan Frequency Factor</i>	<i>Monitoring Capital (\$)</i>	<i>Monitoring O&M (\$)</i>	<i>Monitoring Frequency Factor</i>
Trout-Food-size-Commercial-Flow-through	Medium	1,076.80	253.80	0.32	0.00	3,396.48	0.32
Trout-Food-size-Commercial-Flow-through	Large	1,076.80	253.80	1.00	0.00	3,396.48	1.00
Trout-Food-size-State-Flow-through	Medium	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Trout-Food-size-State-Flow-through	Large	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Trout-Stockers-Commercial-Flow-through	Medium	1,076.80	253.80	0.60	0.00	3,396.48	0.60
Trout-Stockers-Federal-Flow-through	Medium	1,076.80	253.80	0.14	0.00	3,396.48	0.14
Trout-Stockers-Federal-Flow-through	Large	1,076.80	253.80	0.50	0.00	3,396.48	0.50
Trout-Stockers-State-Flow-through	Medium	1,076.80	253.80	0.02	0.00	3,396.48	0.02
Trout-Stockers-State-Flow-through	Large	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Trout-Stockers-Other-Flow-through	Medium	1,076.80	253.80	1.00	0.00	3,396.48	1.00
Trout-Stockers-Other-Flow-through	Large	1,076.80	253.80	1.00	0.00	3,396.48	1.00
Tilapia-Food-size Commercial-Flow-through	Medium	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Tilapia-Food-size Commercial-Flow-through	Large	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Tilapia-Food-size Commercial-Recirculating	Large	1,076.80	253.80	0.40	0.00	3,396.48	0.40
Striped Bass-Food-size Commercial-Flow-through	Medium	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Striped Bass-Food-size Commercial-Recirculating	Large	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Salmon-Food-size-Other-Flow-through	Large	1,076.80	253.80	0.00	0.00	3,396.48	0.00
Salmon-Food-size-Commercial-Net pen	Large	1,076.80	253.80	0.13	-	-	-

Table G-2. Unit Cost Model and Frequency Factor Results for Model Facilities: Option 2

<i>Species</i>	<i>Model</i>	<i>Health and Chemical BMP Plan Capital (\$)</i>	<i>Health and Chemical BMP Plan O&M (\$)</i>	<i>Health and Chemical BMP Plan Frequency Factor</i>
Trout-Flow-through	Medium	1,076.80	253.80	0.00
Trout-Flow-through	Large	1,076.80	253.80	0.00
Trout-State-Flow-through	Medium	1,076.80	253.80	0.00
Trout-State-Flow-through	Large	1,076.80	253.80	0.00
Trout-Stockers-Flow-through	Medium	1,076.80	253.80	0.00
Trout-Stockers-Federal-Flow-through	Medium	1,076.80	253.80	0.00
Trout-Stockers-Federal-Flow-through	Large	1,076.80	253.80	0.00
Trout-Stockers-State-Flow-through	Medium	1,076.80	253.80	0.00
Trout-Stockers-State-Flow-through	Large	1,076.80	253.80	0.00
Trout-Stockers-Other-Flow-through	Medium	1,076.80	253.80	0.00
Trout-Stockers-Other-Flow-through	Large	1,076.80	253.80	0.00
Tilapia-Flow-through	Medium	1,076.80	253.80	0.00
Tilapia-Flow-through	Large	1,076.80	253.80	0.00
Tilapia-Recirculating	Large	1,076.80	253.80	0.00
Striped Bass-Flow-through	Medium	1,076.80	253.80	0.00
Striped Bass-Recirculating	Large	1,076.80	253.80	0.00
Salmon-Other-Flow-through	Large	1,076.80	253.80	0.00
Salmon-Net Pen	Large	1,076.80	253.80	0.00

Table G-3. Unit Cost Model and Frequency Factor Results for Model Facilities: Option 3

<i>Regulatory Option 3 Unit Costs and Frequency Factors</i>											
<i>Species</i>	<i>Model</i>	<i>SP Capital (\$)</i>	<i>SP O&M (\$)</i>	<i>SP Frequency Factor</i>	<i>Monitor Capital (\$)</i>	<i>Monitor O&M (\$)</i>	<i>Monitor Frequency Factor</i>	<i>AF Monitoring Capital (\$)</i>	<i>AF Monitoring O&M(\$)</i>	<i>AF Frequency Factor</i>	
Trout-Flow-through	Medium	8,052.91	1,861.32	0.09	-	-	-	-	-	-	
Trout-Flow-through	Large	8,574.86	1,861.32	0.00	0.00	1,920.00	1.00	-	-	-	
Trout-State-Flow-through	Medium	8,052.91	1,862.32	0.00	-	-	-	-	-	-	
Trout-State-Flow-through	Large	8,052.91	1,861.32	0.00	0.00	1,920.00	0.00	-	-	-	
Trout-Stockers-Flow through	Medium	8,052.91	1,861.32	0.00	-	-	-	-	-	-	
Trout-Stockers-Federal-Flow-through	Medium	8,052.91	1,861.32	0.00	-	-	-	-	-	-	
Trout-Stockers-Federal-Flow-through	Large	8,052.91	1,861.32	0.00	0.00	1,920.00	0.50	-	-	-	
Trout-Stockers-State-Flow-through	Medium	8,052.91	1,861.32	0.05	-	-	-	-	-	-	
Trout-Stockers-State-Flow-through	Large	8,052.91	1,831.32	0.00	0.00	1,920.00	0.00	-	-	-	
Trout-Stockers-Other-Flow-Through	Medium	8,052.91	1,861.32	0.00	-	-	-	-	-	-	
Trout-Stockers-Other-Flow-through	Large	8,052.91	1,861.32	0.00	0.00	1,920.00	1.00	-	-	-	
Tilapia-Flow-through	Medium	8,052.91	1,861.32	0.00	-	-	-	-	-	-	
Tilapia-Flow-through	Large	8,052.91	1,861.32	0.00	0.00	1,920.00	0.00	-	-	-	
Tilapia-Recirculating	Large	8,052.91	1,861.32	0.40	0.00	1,920.00	0.40	-	-	-	
Striped Bass-Flow-through	Medium	8,052.91	1,861.32	1.00	-	-	-	-	-	-	
Striped Bass-Recirculating	Large	8,052.91	1,861.32	0.67	0.00	1,920.00	0.00	-	-	-	
Salmon-Other-Flow-through	Large	8,574.86	1,861.32	0.00	0.00	1,920.00	0.00	-	-	-	
Salmon-Net Pen	Large	-	-	-	-	-	-	10,000.00	3,828.42	0.38	

Note: SP = solids polishing; AF = active feed.

Table G-4. Unit Cost Model and Frequency Factor Results for Alaska Salmon Flow-through Facilities: Option 1

Facility	Harvest (lb/yr)	QZ Capital (\$)	QZ O&M (\$)	QZ Frequency Factor	SB Capital (\$)	SB O&M (\$)	SB Frequency Factor
Facility 1	201,052	6,378.67	5,933.51	0	24,884.00	5,071.32	0
Facility 2	204,139	6,476.61	6,016.94	0	25,252.76	5,075.47	0
Facility 3	144,436	4,582.44	4,403.44	0	17,862.69	4,995.29	0
Facility 4	135,510	4,299.25	4,162.21	0	16,796.40	4,983.30	0
Facility 5	403,515	12,802.10	11,405.15	0	49,715.01	5,343.22	0
Facility 6	150,822	4,785.05	4,576.02	0	18,625.54	5,003.87	0
Facility 7	125,720	3,988.65	3,897.63	0	15,626.91	4,970.16	0
Facility 8	207,649	6,587.97	6,111.80	0	25,672.06	5,080.18	0
Facility 9	985,194	31,256.71	27,125.26	0	121,265.81	6,124.40	0
Facility 10	116,636	3,700.45	3,652.13	0	14,541.75	4,957.96	0
Facility 11	366,030	11,612.83	10,392.11	0	45,108.09	5,292.88	0
Facility 12	244,543	7,758.48	7,108.87	0	30,208.38	5,129.73	0
Facility 13	571,095	18,118.82	15,934.07	0	70,378.97	5,568.28	0
Facility 14	145,089	4,603.16	4,421.09	0	17,940.69	4,996.17	0
Facility 15	222,290	7,052.47	6,507.48	0	27,421.04	5,099.85	0
Facility 16	250,047	7,933.10	7,257.62	0	30,865.88	5,137.12	0
Facility 17	104,738	3,322.97	3,330.59	0	12,991.40	4,941.98	0
Facility 18	153,371	4,865.92	4,644.91	0	19,059.08	5,007.29	0

Note: QZ = quiescent zone; SB = settling basin.

<i>Regulatory Option 1 Unit Costs and Frequency Factors (continued)</i>							
Facility	Harvest (lb/yr)	BMP Plan Capital (\$)	BMP Plan O&M (\$)	BMP Plan Frequency Factor	Monitoring Capital (\$)	Monitoring O&M (\$)	Monitoring Frequency Factor
Facility 1	201,052	1,710.40	436.92	0	0	4,805.76	0
Facility 2	204,139	1,710.40	436.92	0	0	4,805.76	0
Facility 3	144,436	1,710.40	436.92	0	0	4,805.76	0
Facility 4	135,510	1,710.40	436.92	0	0	4,805.76	0
Facility 5	403,515	1,710.40	436.92	0	0	4,805.76	0
Facility 6	150,822	1,710.40	436.92	0	0	4,805.76	0
Facility 7	125,720	1,710.40	436.92	0	0	4,805.76	0
Facility 8	207,649	1,710.40	436.92	0	0	4,805.76	0
Facility 9	985,194	1,710.40	436.92	0	0	4,805.76	0
Facility 10	116,636	1,710.40	436.92	0	0	4,805.76	0
Facility 11	366,030	1,710.40	436.92	0	0	4,805.76	0
Facility 12	244,543	1,710.40	436.92	0	0	4,805.76	0
Facility 13	571,095	1,710.40	436.92	0	0	4,805.76	0
Facility 14	145,089	1,710.40	436.92	0	0	4,805.76	0
Facility 15	222,290	1,710.40	436.92	0	0	4,805.76	0
Facility 16	250,047	1,710.40	436.92	0	0	4,805.76	0
Facility 17	104,738	1,710.40	436.92	0	0	4,805.76	0
Facility 18	153,371	1,710.40	436.92	0	0	4,805.76	0

Table G-5. Unit Cost Model and Frequency Factor Results for Alaska Salmon Flow-through Facilities: Option 2

<i>Facility</i>	<i>Harvest (lb/yr)</i>	<i>BMP Plan Capital (\$)</i>	<i>BMP Plan O&M (\$)</i>	<i>BMP Plan Frequency Factor</i>
Facility 1	201,052	1,710.40	436.92	0
Facility 2	204,139	1,710.40	436.92	0
Facility 3	144,436	1,710.40	436.92	0
Facility 4	135,510	1,710.40	436.92	0
Facility 5	403,515	1,710.40	436.92	0
Facility 6	150,822	1,710.40	436.92	0
Facility 7	125,720	1,710.40	436.92	0
Facility 8	207,649	1,710.40	436.92	0
Facility 9	985,194	1,710.40	436.92	0
Facility 10	116,636	1,710.40	436.92	0
Facility 11	366,030	1,710.40	436.92	0
Facility 12	244,543	1,710.40	436.92	0
Facility 13	571,095	1,710.40	436.92	0
Facility 14	145,089	1,710.40	436.92	0
Facility 15	222,290	1,710.40	436.92	0
Facility 16	250,047	1,710.40	436.92	0
Facility 17	104,738	1,710.40	436.92	0
Facility 18	153,371	1,710.40	436.92	0

Table G-6. Unit Cost Model and Frequency Factor Results for Alaska Salmon Flow-through Facilities: Option 3

<i>Regulatory Option 3 Unit Costs and Frequency Factors</i>							
<i>Facility</i>	<i>Harvest (lb/yr)</i>	<i>Solids Polishing Capital (\$)</i>	<i>Solids Polishing O&M (\$)</i>	<i>Solids Polishing Frequency Factor</i>	<i>Monitoring Capital (\$)</i>	<i>Monitoring O&M (\$)</i>	<i>Monitoring Frequency Factor</i>
Facility 1	201,052	8,052.91	2,320.48	0	0	1,920.00	0
Facility 2	204,139	8,052.91	2,320.48	0	0	1,920.00	0
Facility 3	144,436	8,052.91	2,320.48	0	0	1,920.00	0
Facility 4	135,510	8,052.91	2,320.48	0	0	1,920.00	0
Facility 5	403,515	8,052.91	2,320.48	0	0	1,920.00	0
Facility 6	150,822	8,052.91	2,320.48	0	0	1,920.00	0
Facility 7	125,720	8,052.91	2,320.48	0	0	1,920.00	0
Facility 8	207,649	8,052.91	2,320.48	0	0	1,920.00	0
Facility 9	985,194	8,052.91	2,320.48	0	0	1,920.00	0
Facility 10	116,636	8,052.91	2,320.48	0	0	1,920.00	0
Facility 11	366,030	8,052.91	2,320.48	0	0	1,920.00	0
Facility 12	244,543	8,052.91	2,320.48	0	0	1,920.00	0
Facility 13	571,095	8,052.91	2,320.48	0	0	1,920.00	0
Facility 14	145,089	8,052.91	2,320.48	0	0	1,920.00	0
Facility 15	222,290	8,052.91	2,320.48	0	0	1,920.00	0
Facility 16	250,047	8,052.91	2,320.48	0	0	1,920.00	0
Facility 17	104,738	8,052.91	2,320.48	0	0	1,920.00	0
Facility 18	153,371	8,052.91	2,320.48	0	0	1,920.00	0