

US EPA ARCHIVE DOCUMENT

**APPENDIX A. EQUATIONS AND PARAMETER VALUES
USED IN THE ASSESSMENT OF RISKS AND RISK
REDUCTION BENEFITS**

Exhibit A-1. Risk Equation and Variable Definitions Used in Radon Risk Assessment

1. Risk Equations for Inhalation of Radon Progeny

$$IR(prog) = Cw * TF * EF * OF * 0.516 * iRF(prog)$$

$$PR(prog) = IR(prog) * Pop$$

2. Risk Equations for Ingestion of Radon Gas in Drinking Water

$$IR(ingest) = Cw * V * F * 365 * oRF$$

$$PR(ingest) = IR(ingest) * Pop$$

3. Risk Equations for Inhalation of Radon Gas

$$IR(gas) = Cw * TF * BR * 24 * OF * 365 * iRF(gas)$$

$$PR(gas) = IR(gas) * Pop$$

4. Equation for Total Population Risk

$$PR(total) = PR(prog) + PR(ingest) + PR(gas)$$

Variable Definitions

IR(prog)	Individual risk associated with inhalation of radon progeny, lifetime fatal cancer risk per year of exposure
PR(prog)	Population risk from inhalation of radon progeny, fatal cancers per year of exposure
IR(ingest)	Individual risk associated with ingestion of radon gas, lifetime fatal cancer risk per year of exposure
PR(ingest)	Population risk from ingestion of radon gas, fatal cancers per year of exposure
IR(gas)	Individual risk associated with inhalation of radon gas, lifetime fatal cancer risk per year of exposure
PR(gas)	Population risk from inhalation of radon gas, fatal cancers per year of exposure
PR(total)	Total population risk, fatal cancers per year of exposure
Cw	Radon activity level in water, pCi/l
TF	Transfer factor for domestic water use, pCi/l(air)/pCi/l(water)
EF	Equilibrium factor (unitless)
OF	Occupancy factor (unitless)
iRF (prog)	Risk Factor for inhalation of progeny, fatal cancer risk per wlm (working level month)
Pop	Population exposed
V	Volume of direct water ingestion, liters/day
F	Fraction of radon remaining in drinking water, unitless
oRF	Risk Factor for radon ingestion, fatal cancer risk per pCi
BR	Breathing rate, liters per hour
iRF(gas)	Risk Factor for inhalation of radon gas, fatal cancer risk per pCi

Simulation Parameters

Type of sampling	One-dimensional Latin Hypercube
Number of iterations	5 X 50,000
Seed numbers	First run = 1027; subsequent runs, chosen randomly by program

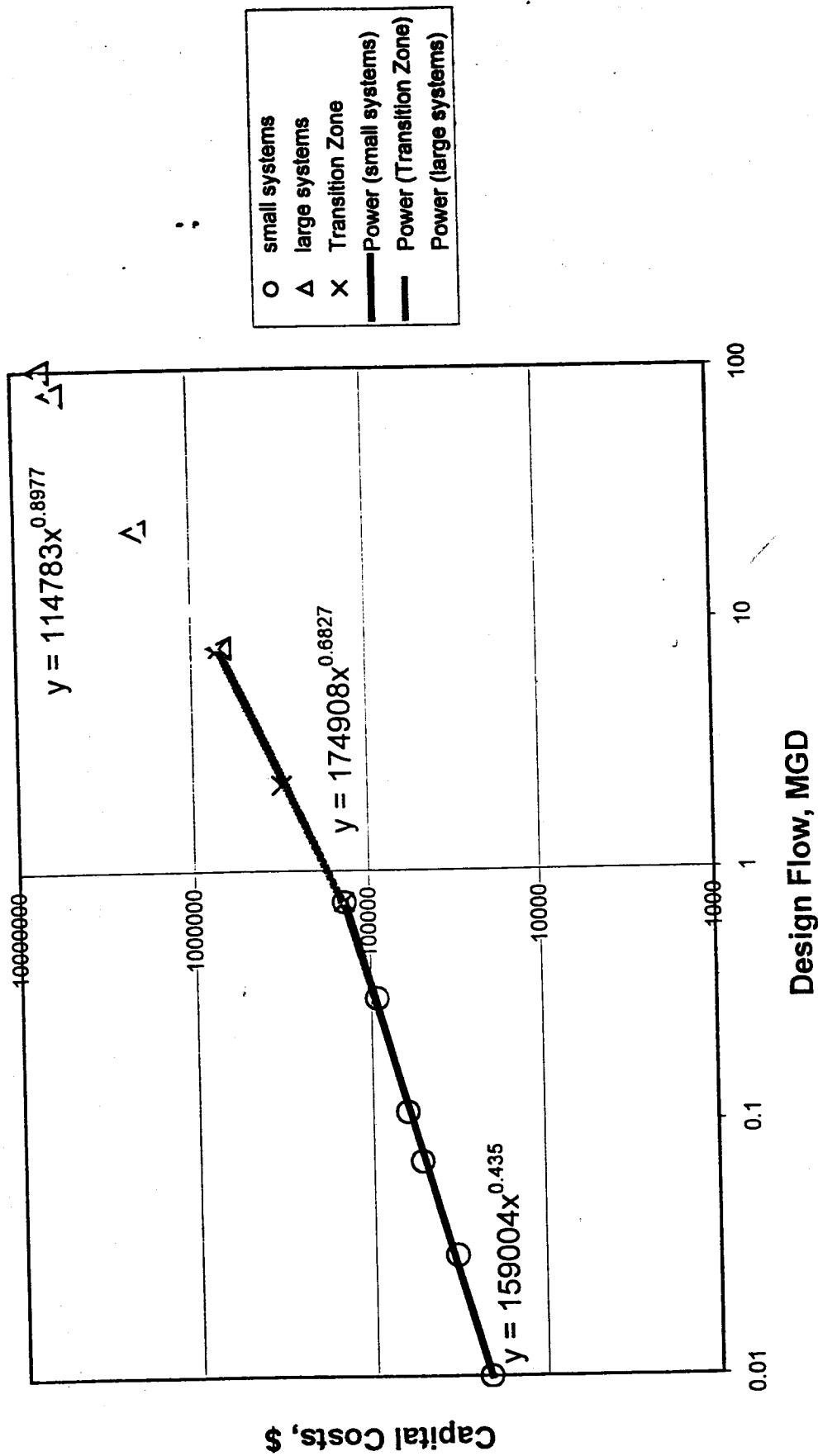
Exhibit A-2. Variable Values Used in Radon Risk Assessment

Variable	Distribution Type	Value				
Cw (baseline)	LN(gm, gsd) ¹	System Size	gm, pCi/l	gsd, pCi/l		
		25-100	312	3.04		
		101-500	259	3.31		
		501-3,3300	122	3.22		
		3,301-10,000	124	2.29		
		>10,000	132	2.31		
Cw(with maximum exposure limits)	Variable	If Cw(baseline) < limit, Cw(baseline)				
		If Cw(baseline) < 2*limit, Cw(baseline)/2				
		If Cw(baseline) < 5*limit, Cw(baseline)/5				
		If Cw(baseline) > 5*limit, Cw(baseline)/100				
Pop	Point estimates	System Size	Population			
		25-100	865,245			
		101-500	4,176,468			
		501-3,3300	14,239,295			
		3,301-10,000	14,542,812			
		>10,000	55,907,052			
TF	Point estimate	1.0×10^{-4} pCi/l(water)/pCi(air)				
EF	Point estimate	0.4 unitless				
OF	Point estimate	0.7 unitless				
V	Point estimate	0.6 liters/day				
F	Point estimate	1 unitless				
BR	Point estimate	22,000 liters/hour				
iRF(prog)	Point estimate	5.15×10^{-4} fatal cancer risk per wlm				
oRF(ingest)	Point estimate	4.25×10^{-12} fatal cancer risk per pCi				
iRF(gas)	Point estimate	1.52×10^{-13} fatal cancer risk per pCi				

1. LN = lognormal distribution, gm = geometric mean, gsd = geometric standard deviation

APPENDIX B. COST CURVES FOR RADON REDUCTION AND DISINFECTION TECHNOLOGIES

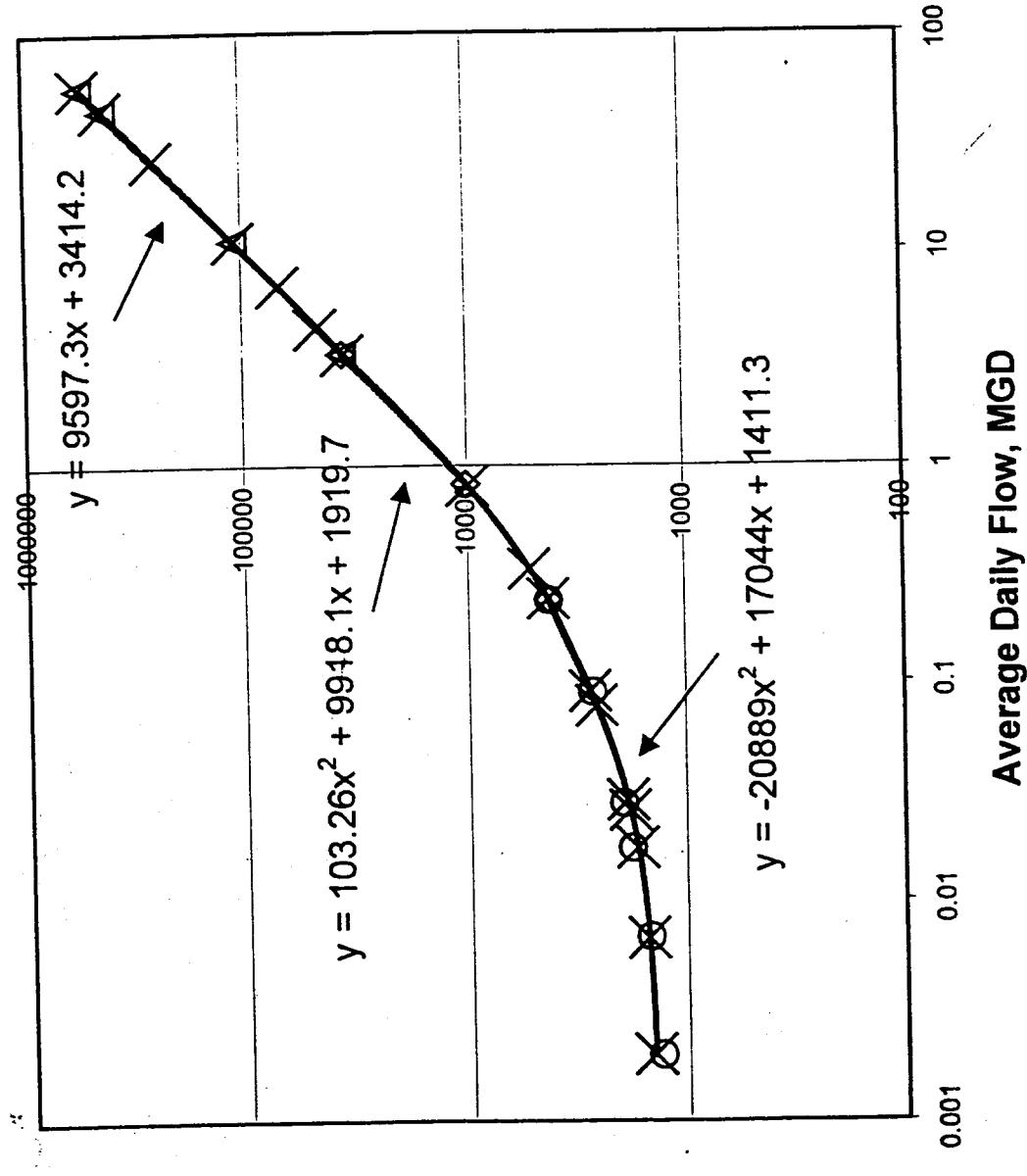
PTA Capital Costs
80 % Removal, 5 min. Detention



12/18/98

Unitsum2.xls

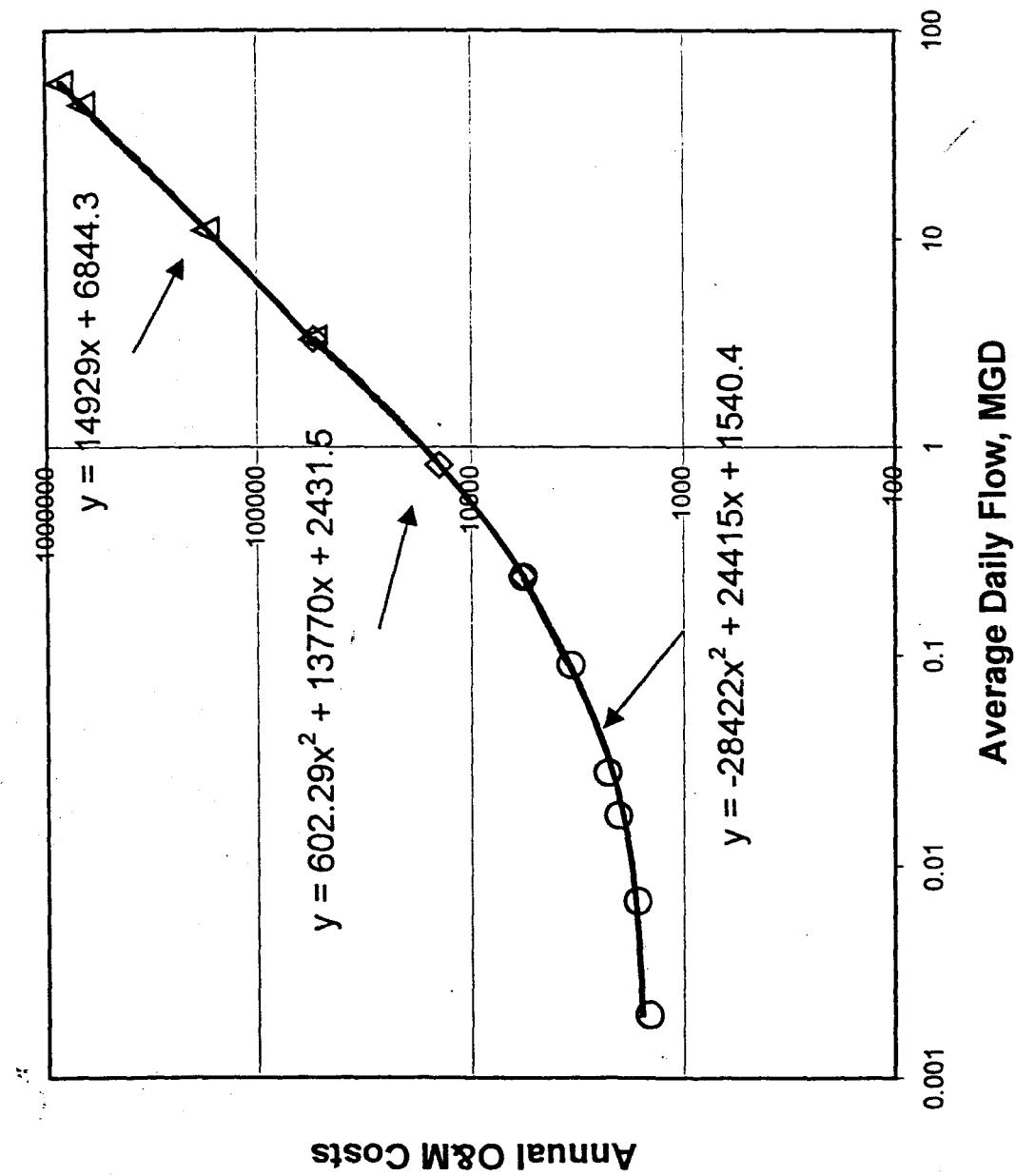
PTA O&M Costs, 80% Removal



12/18/98

Unitsum2.xls

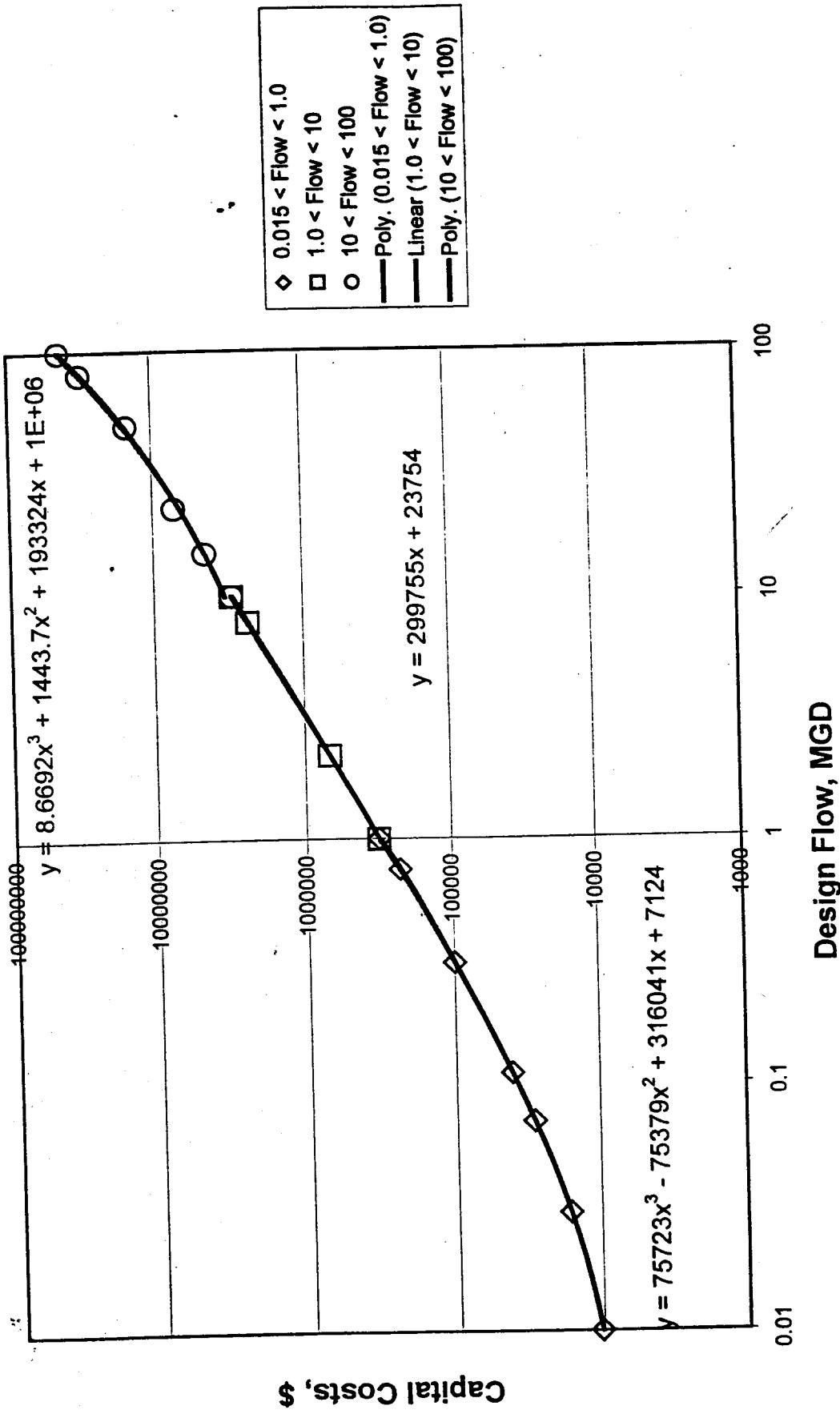
PTA O&M Costs, 99% Removal



Unitsum2.xls

12/18/98

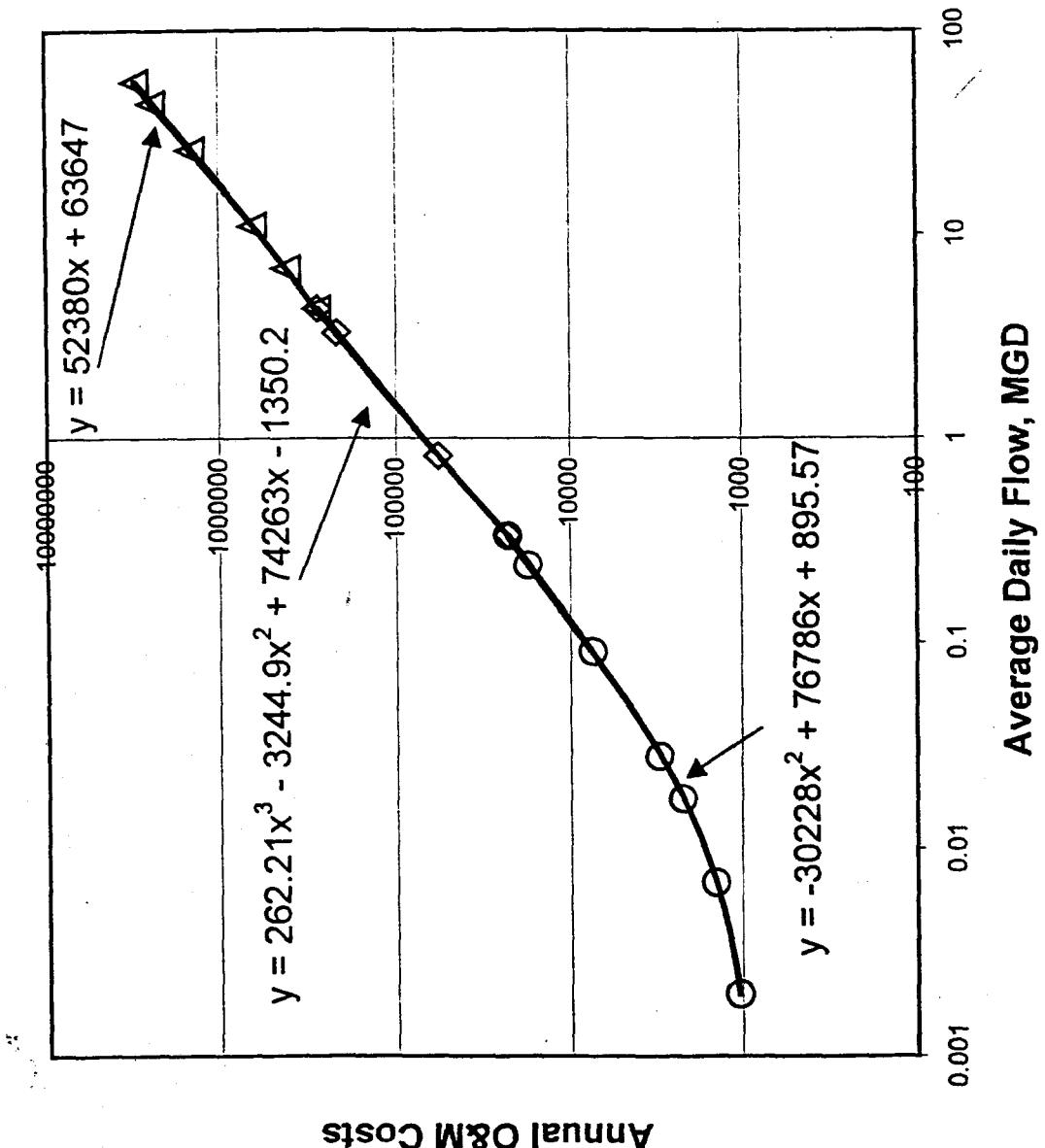
Diffused Aeration: Capital Costs, Treatment Only



12/18/98

Unitsum2.xls

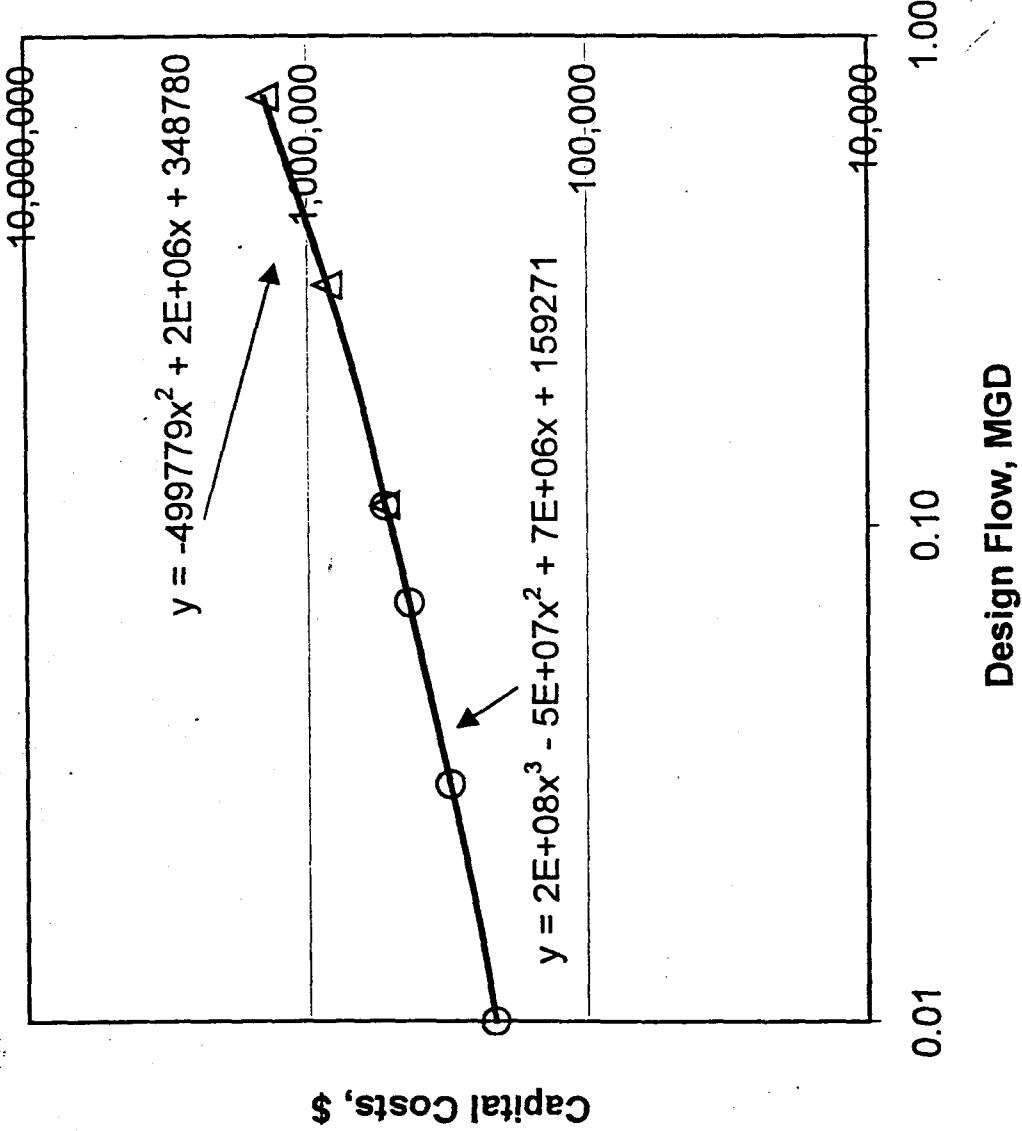
DA O&M Costs, 80% Removal



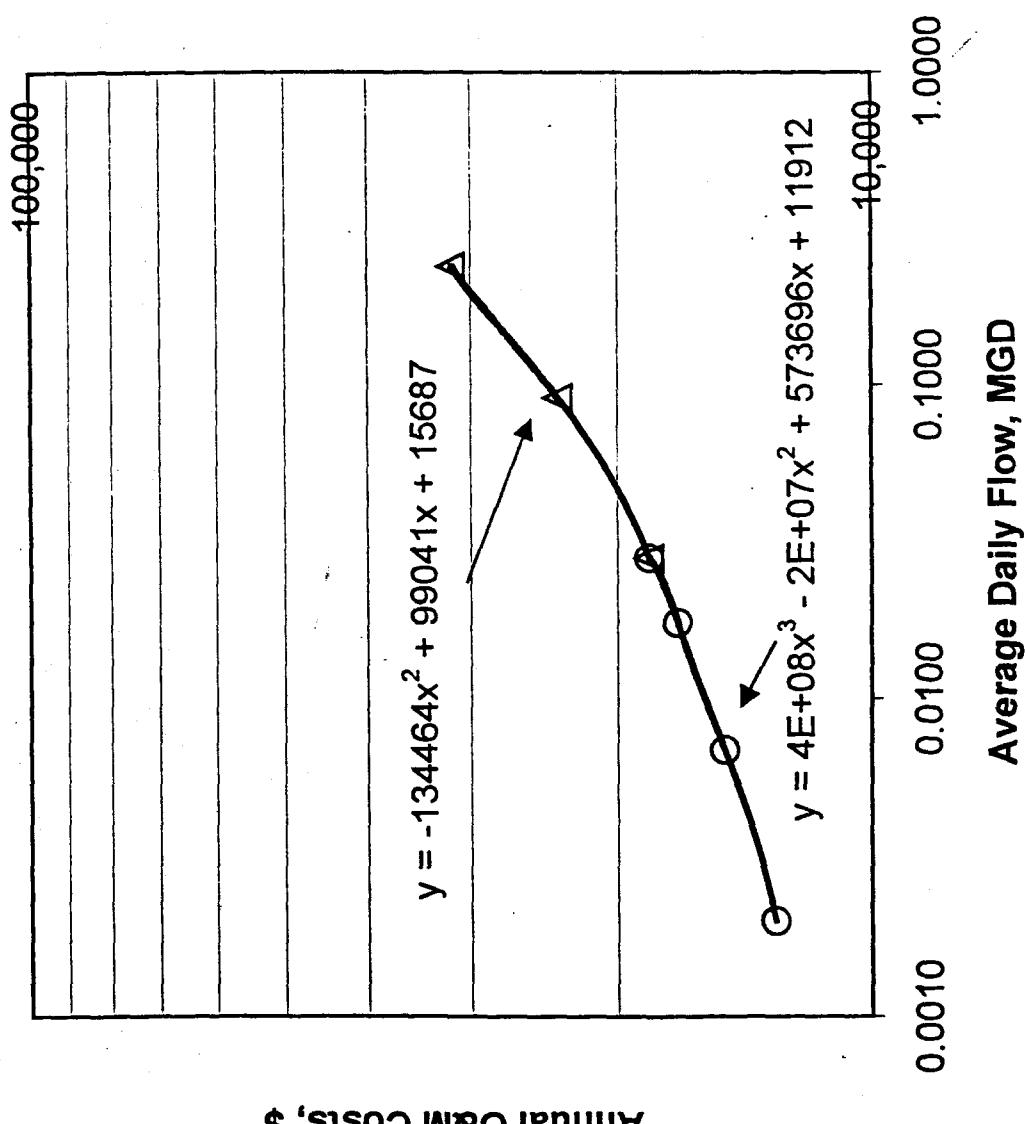
12/18/98

Unitsum2.xls

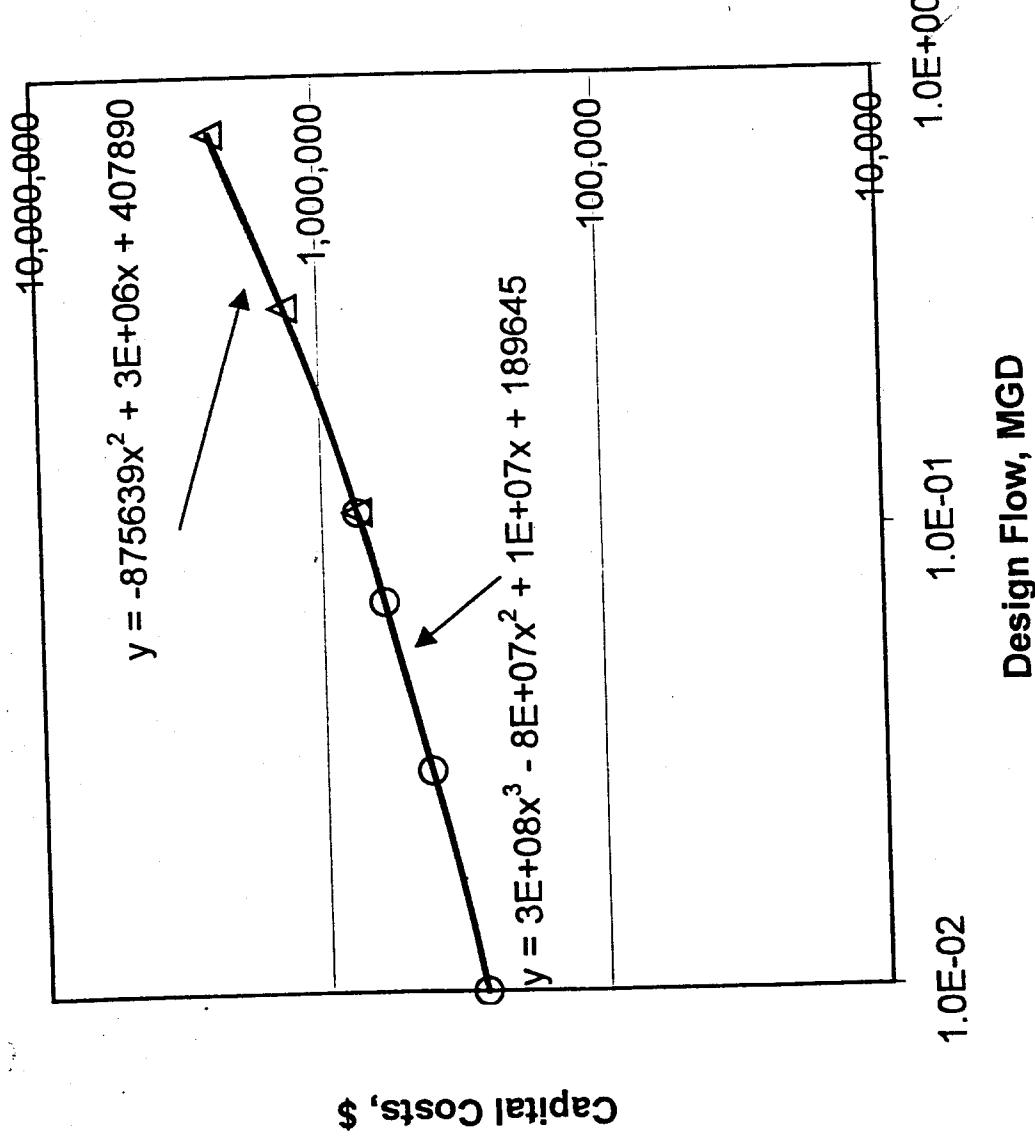
GAC Capital Costs, 50% removal



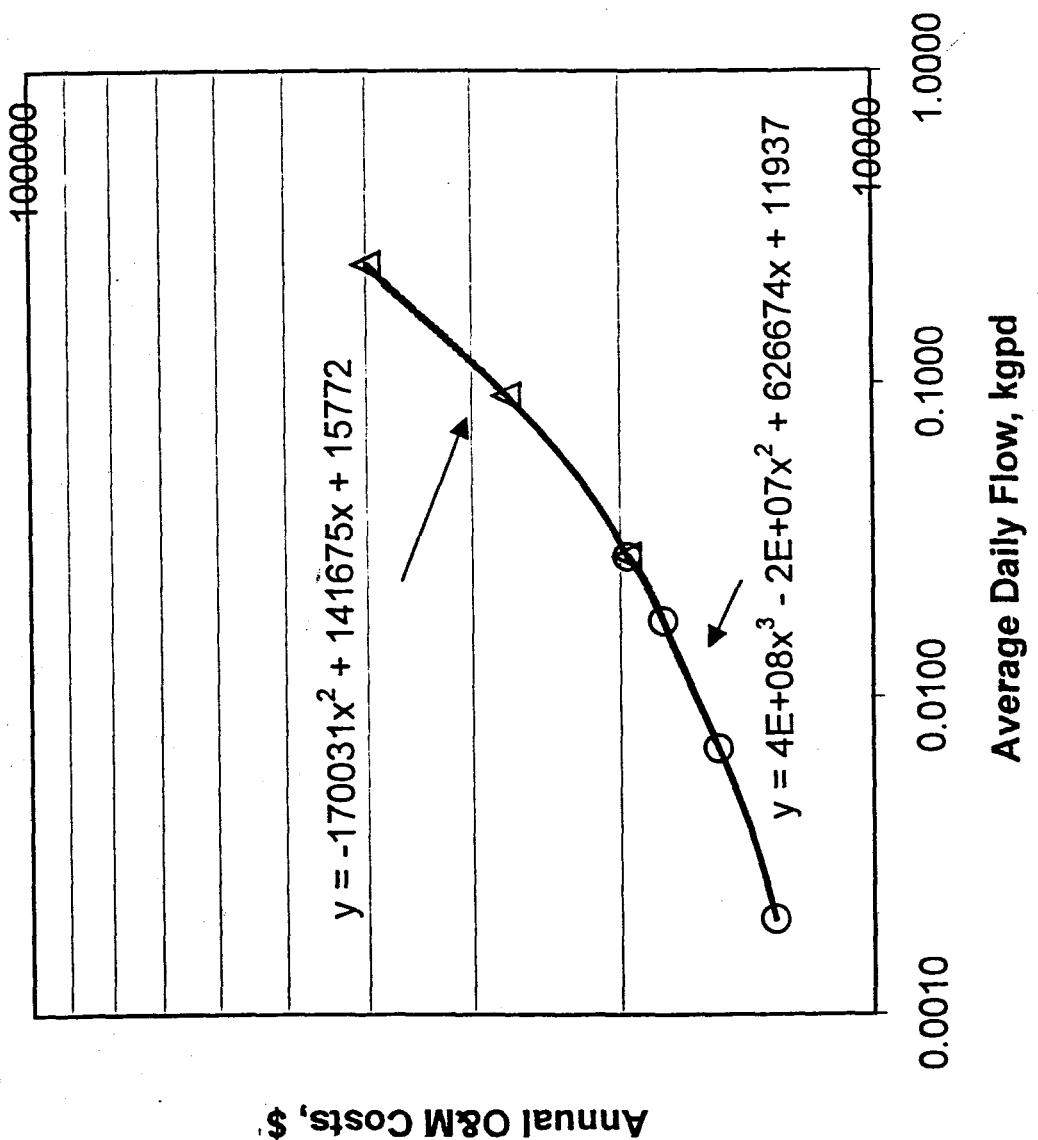
GAC O&M Costs, 50% removal



GAC Capital Costs, 80% removal



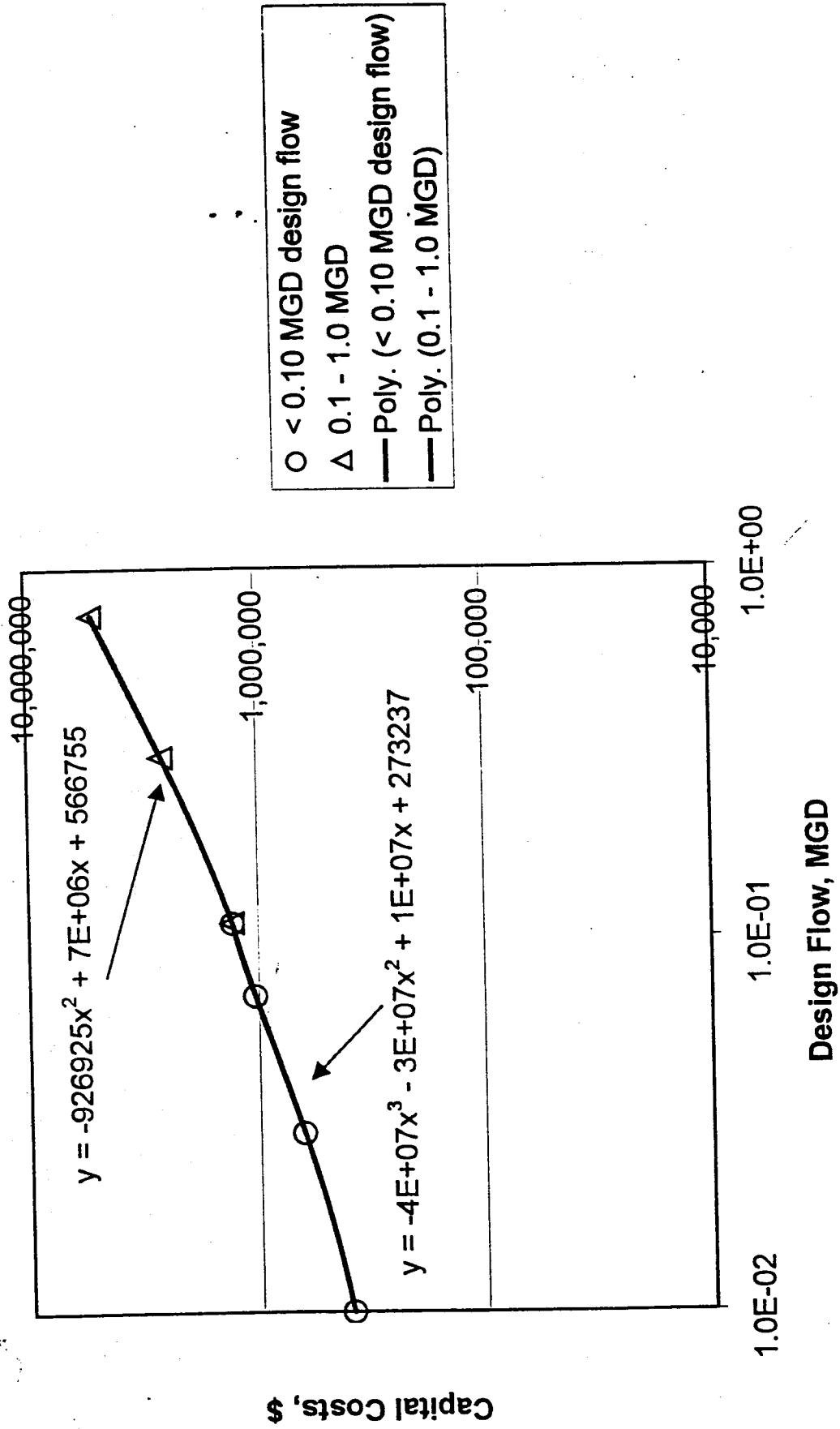
GAC O&M Costs, 80% removal



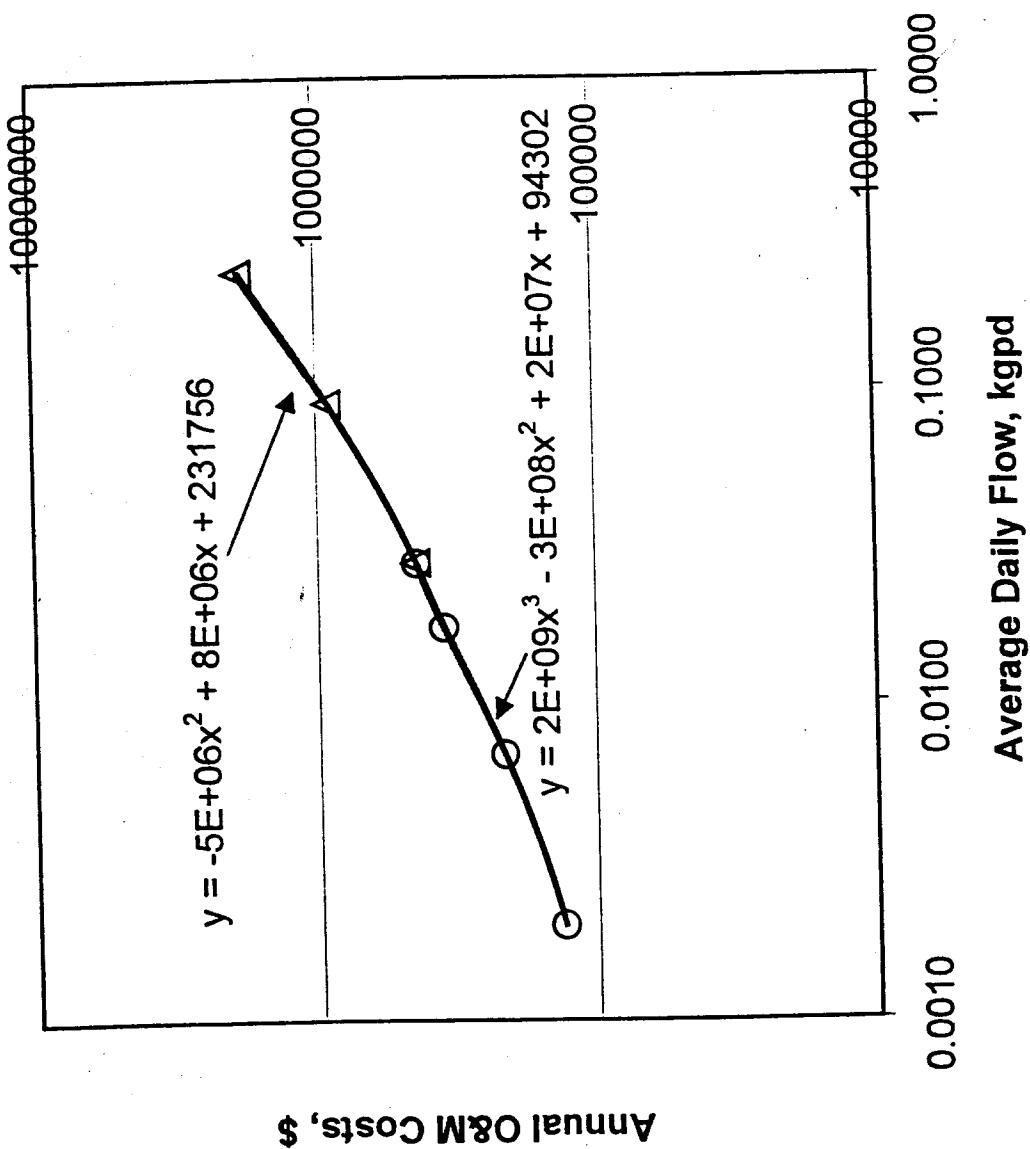
12/18/98

Unitsum2.xls

GAC Capital Costs, 99% removal

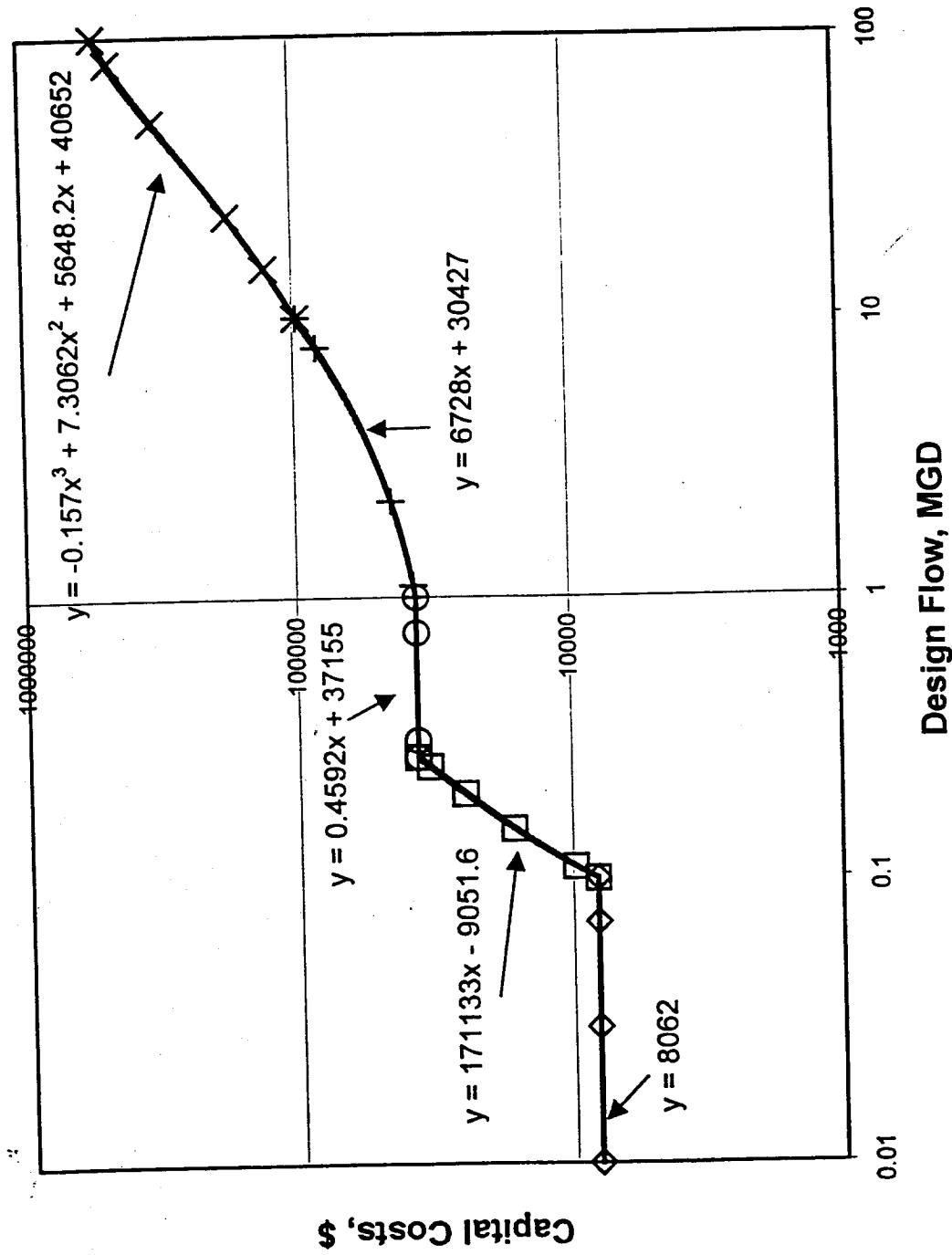


GAC O&M Costs, 99% removal



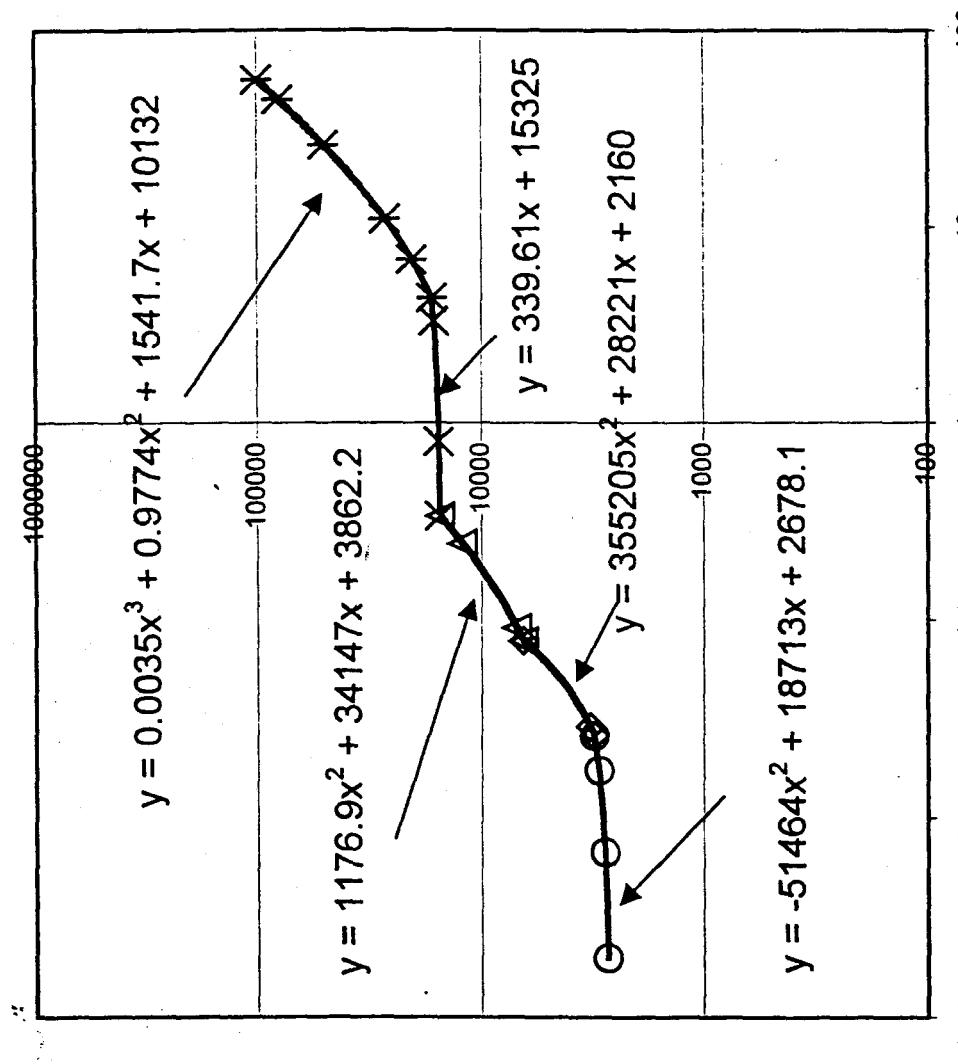
12/18/98

Chlorination Capital Costs



12/18/98

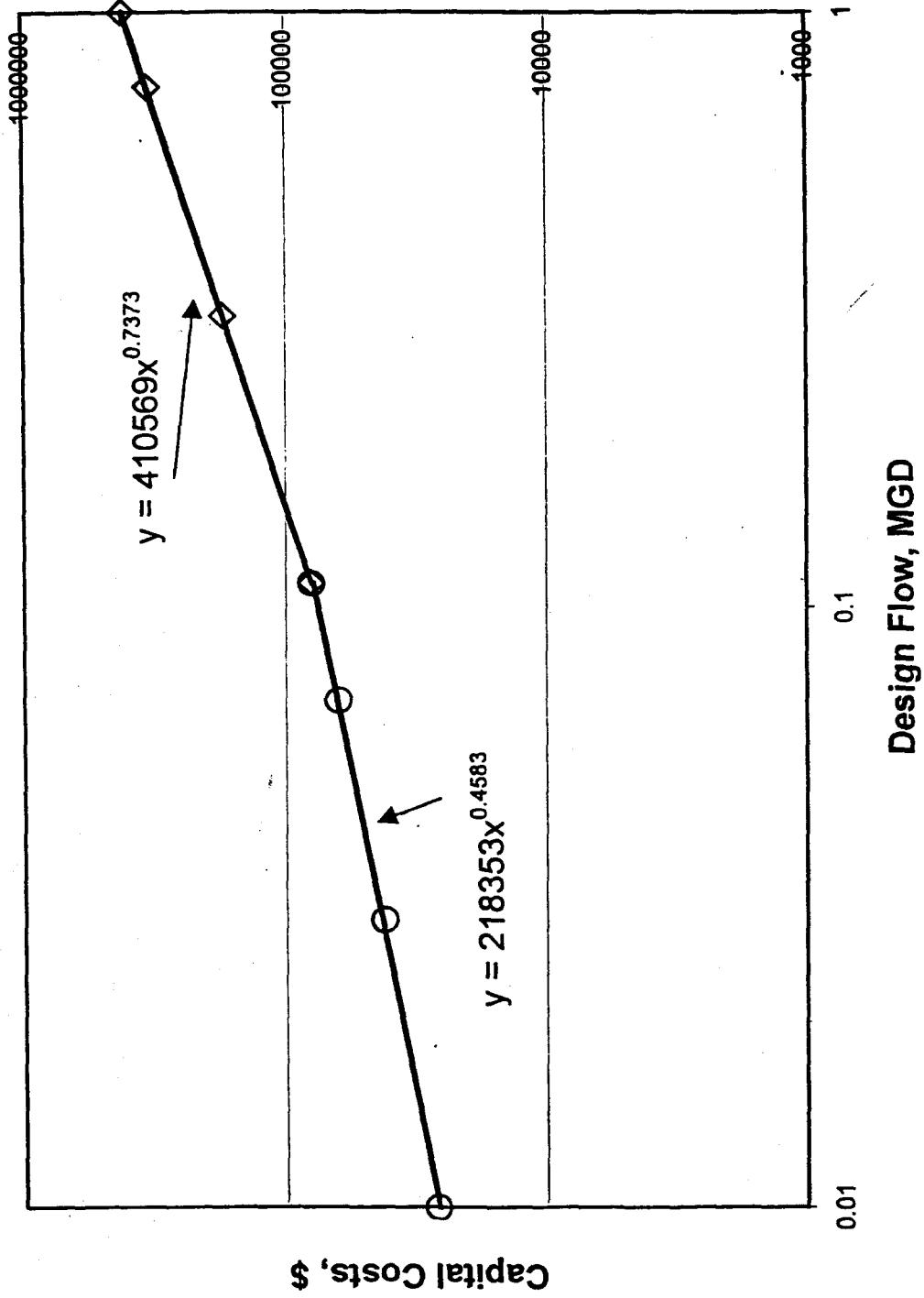
Chlorination Treatment Only, O&M Costs



Unitsum2.xls

12/18/98

2-Days of Storage, Capital Costs
Steel Tank Above Ground, Plus Effluent Pumping, Includes Disinfection Capital



APPENDIX C. FLOW ESTIMATION EQUATIONS FOR PUBLIC AND PRIVATE WATER SYSTEMS

EXHIBIT C-1. EQUATIONS FOR ESTIMATING FLOW

$$\text{Flow (MGD)} = a * (\text{pop}/1000)^b$$

Average Flow (AF)			
Public Water Systems		Private Water Systems	
a =	0.1284	a =	0.1029
b =	1.0584	b =	1.0628
Design Flow (DF)			
Public Water Systems		Private Water Systems	
a =	0.4041	a =	0.3179
b =	0.9554	b =	0.9608
Public Water Systems			
System Size	Average Population	AF, mgd	DF, mgd
25-100	65	0.0071	0.0297
101-500	290	0.0346	0.1238
501-1,000	750	0.0947	0.3070
1,000-3,300	1880	0.2505	0.7386
3,301-10,000	5800	0.8252	2.1670
10,001-50,000	20900	3.2049	7.3749
50,001-100,000	68000	11.1710	22.7650
>100,000	214000	37.5902	75.1805
Private Water Systems			
System Size	Average Population	AF, mgd	DF, mgd
25-100	60	0.0052	0.0213
101-500	230	0.0216	0.0775
501-1,000	720	0.0726	0.2319
1,000-3,300	1800	0.1922	0.5592
3,301-10,000	5700	0.6543	1.6925
10,001-50,000	21900	2.7355	6.1686
50,001-100,000	68000	9.1202	18.3217
>100,000	248000	36.0777	72.1554

1. Flow parameters estimated by ODWGW from SDWIS data

APPENDIX D. SUMMARY COST TABLES

PUBLIC

Monitoring Costs		S	Cost	50	Frequency	4
Monitoring Cost		No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	
System Size						
25-100	\$ 1190.6	1083	6	234,112	\$	224 VWS
101-500	\$ 4748.0	3824	5	949,608	\$	242 VWS
501-1000	\$ 2518.4	2518	5	710,076	\$	242 S
1001-3,300	\$ 383.1	3743	4	1,227,820	\$	340 M
3,301-10,000	\$ 4330.6	1902	5	867,312	\$	4871.4
10,001-46,000	\$ 3881.3	987	5	777,860	\$	577.8
46,001-100,000	\$ 983.1	113	5	198,820	\$	577.8
Totals	\$ 100,001-1,000,000	457.6	52	1,740	\$	91,530
Total	\$ 100,001-1,000,000			1,760	\$	

Per System Costs		GRM Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total Annual Cost	System Size	Q&W Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total
System Size												
25-100	\$ 5,702,175	\$ 5,242,338	\$	35,749,288	\$	238,112	\$	11,202,625	\$	32,168,982	\$	315,840,028
101-500	\$ 28,464,787	\$ 26,328,413	\$	300,090,740	\$	649,608	\$	55,740,533	\$	43,425,774	\$	781,795,004
501-1000	\$ 11,413,655	\$ 20,878,284	\$	249,078,421	\$	710,076	\$	32,602,984	\$	34,718,416	\$	60,029,878
1001-3,300	\$ 32,012,119	\$ 51,225,397	\$	542,892,543	\$	1,272,020	\$	84,510,135	\$	51,246,557	\$	982,1367
3,301-10,000	\$ 34,716,418	\$ 80,028,618	\$	615,985,250	\$	867,312	\$	65,613,408	\$	16,475,711	\$	27,552,716
10,001-46,000	\$ 38,006,122	\$ 75,978,617	\$	804,918,556	\$	777,860	\$	114,454,390	\$	190,620	\$	36,187,005
46,001-100,000	\$ 13,148,435	\$ 22,842,750	\$	21,582,976	\$	21,581,443	\$	91,520	\$	44,119,907	\$	5103,329
Totals	\$ 100,001-1,000,000	\$ 18,475,711	\$	27,552,976	\$	291,971,163	\$	3,092,362,705	\$	5,103,329	\$	475,032,719
Total	\$ 100,001-1,000,000	\$ 178,031,419	\$	291,971,163	\$	5,103,329	\$	475,032,719	\$			

Household Costs HH Consumption (gal)		\$3,000	System Size		GRM Cost		Annual Cap Cost		Monitoring Cost for Systems Above Reg. Limit		Averaged Daily Flow (MGD)		Affected Systems		HH Incremental Cost		
System Size		GRM Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	GRM Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	GRM Cost	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	GRM Cost	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit
System Size																	
25-100	\$ 5,702,175	\$ 5,242,338	\$	1,004	\$	200,761	\$	12,456	\$	986	\$	32,168,982	\$	31,568,781	\$	943,719	
101-500	\$ 28,464,787	\$ 26,328,413	\$	3,715	\$	742,938	\$	3,070	\$	118,753	\$	43,425,774	\$	51,044,881	\$	1,307,223	
501-1000	\$ 11,413,655	\$ 20,878,284	\$	2,341	\$	484,184	\$	1,660	\$	19,613	\$	34,718,416	\$	63,639,391	\$	3,167,107	
1001-3,300	\$ 32,012,119	\$ 51,225,397	\$	4,195	\$	639,059	\$	2,488	\$	34,069	\$	51,246,557	\$	982,1367	\$	717,987	
3,301-10,000	\$ 34,716,418	\$ 80,028,618	\$	3,197	\$	631,391	\$	1,402	\$	66,027	\$	16,475,711	\$	27,552,716	\$	337	
10,001-46,000	\$ 38,006,122	\$ 75,978,617	\$	2,805	\$	573,997	\$	1,58,041	\$	83	\$	433,934	\$	67,448	\$	383	
46,001-100,000	\$ 13,148,435	\$ 22,842,750	\$	2,74	\$	64,699	\$	67,446	\$	38	\$	1,150,883	\$		\$		
Totals	\$ 100,001-1,000,000	\$ 18,475,711	\$	27,552,976	\$	291,971,163	\$	3,092,362,705	\$	5,103,329	\$	475,032,719	\$	943,719	\$	1,307,223	
Total	\$ 100,001-1,000,000	\$ 18,475,711	\$	27,552,976	\$	291,971,163	\$	3,092,362,705	\$	5,103,329	\$	475,032,719	\$	943,719	\$	1,307,223	

PUBLIC

Results (200 MCL)

Monitoring Costs

Monitoring Cost	Cost	50	Frequency	4
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System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	1190	1063	\$ 238,112	\$ 224	VS	5638	6	\$ 4987	\$ 1,187,720
101-500	4748	3124	\$ 949,808	\$ 242	VS	6913	5	\$ 6261	\$ 1,982,698
501-1,000	350	2518	\$ 710,076	\$ 282	S	4336	6	\$ 1902	\$ 867,312
1001-3,300	6363	3743	\$ 1,272,620	\$ 340	M	4671	4	\$ 1110	\$ 974,280
3,301-10,000	4396	1902	\$ 667,312	\$ 458	L	4576	52	\$ 52	\$ 91,520
10,001-50,000	3888	987	\$ 777,860	\$ 780					
50,001-100,000	943	113	\$ 198,620	\$ 1,740					
100,001-1,000,000	457	52	\$ 91,520	\$ 1,780					

Totals

System Site	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total
25-100	\$ 3,750,191	\$ 3,753,595	\$ 39,765,835	\$ 238,112	\$ 7,741,898	VS	\$ 21,668,369	\$ 24,326,602	\$ 257,716,371	\$ 1,187,720	\$ 47,182,712
101-500	\$ 17,918,198	\$ 20,572,008	\$ 217,950,736	\$ 949,808	\$ 39,440,814	VS	\$ 31,161,674	\$ 48,738,248	\$ 518,312,310	\$ 1,982,698	\$ 81,680,619
501-1,000	\$ 6,188,040	\$ 13,911,373	\$ 147,377,279	\$ 710,076	\$ 22,809,489	S	\$ 39,899,687	\$ 423,751,042	\$ 867,312	\$ 64,743,770	
1001-3,300	\$ 22,973,334	\$ 34,824,876	\$ 368,935,230	\$ 1,272,620	\$ 59,071,130	M	\$ 31,956,532	\$ 58,617,813	\$ 831,591,965	\$ 974,280	\$ 92,548,626
3,301-10,000	\$ 23,976,791	\$ 39,989,687	\$ 423,757,042	\$ 667,312	\$ 64,743,770	L	\$ 9,619,194	\$ 16,029,923	\$ 169,189,555	\$ 91,520	\$ 25,737,837
10,001-50,000	\$ 24,189,442	\$ 46,144,177	\$ 486,855,260	\$ 198,620	\$ 21,427,047		\$ 71,121,579	\$ 186,707,255	\$ 1,989,187,342	\$ 5,103,526	\$ 12,093,364
50,001-100,000	\$ 7,757,981	\$ 13,473,338	\$ 142,738,715	\$ 169,789,455	\$ 198,620		\$ 118,282,581	\$ 186,707,255	\$ 1,989,187,342	\$ 5,103,526	\$ 12,093,364
100,001-1,000,000	\$ 9,619,194	\$ 16,026,923	\$ 169,789,455	\$ 91,520	\$ 25,737,637						
Total	\$ 16,282,581	\$ 185,707,255	\$ 1,989,187,342	\$ 5,103,526	\$ 5,103,526						

Per System Costs

System Site	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 3,750,191	\$ 3,753,595	\$ 751	\$ 150,280	671	\$ 14,408	VS	\$ 21,668,389	\$ 24,326,602	3,561	\$ 712,268	2,993,2	\$ 16,605
101-500	\$ 17,918,198	\$ 20,572,008	\$ 2,810	\$ 581,978	2,322	\$ 18,817	VS	\$ 31,161,674	\$ 48,738,248	4,513	\$ 902,551	2,850,1	\$ 26,350
501-1,000	\$ 6,188,040	\$ 13,911,373	\$ 1,618	\$ 323,237	1,146	\$ 19,562	S	\$ 23,956,532	\$ 39,899,687	2,158	\$ 431,143	945,6	\$ 68,016
1001-3,300	\$ 22,973,334	\$ 34,824,876	\$ 2,687	\$ 576,315	1,704	\$ 34,292	M	\$ 31,956,532	\$ 58,617,813	2,208	\$ 441,176	502,6	\$ 183,007
3,301-10,000	\$ 23,976,791	\$ 39,989,687	\$ 2,158	\$ 431,143	945	\$ 68,015	L	\$ 9,619,194	\$ 16,029,923	207	\$ 41,442	23,5	\$ 1,980,917
10,001-50,000	\$ 24,189,442	\$ 46,144,177	\$ 1,761	\$ 352,142	451	\$ 156,583							
50,001-100,000	\$ 7,757,981	\$ 13,473,338	\$ 445	\$ 89,034	51	\$ 416,649							
100,001-1,000,000	\$ 9,619,194	\$ 16,026,923	207	\$ 41,442	24	\$ 1,080,917							

System Site	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 3,750,191	\$ 3,753,595	\$ 150,290	\$ 0,0071	671	\$ 384,62	VS	\$ 21,668,389	\$ 24,326,602	3,561	\$ 712,268	2,993,2	\$ 124,64
101-500	\$ 17,918,198	\$ 20,572,008	\$ 561,978	\$ 0,0348	2,322	\$ 110,40	VS	\$ 31,161,674	\$ 48,738,248	4,513	\$ 902,551	2,850,1	\$ 54,33
501-1,000	\$ 6,188,040	\$ 13,911,373	\$ 323,237	\$ 0,0947	1,146	\$ 46,98	S	\$ 23,956,532	\$ 39,889,687	4,117	\$ 431,143	845,6	\$ 18,74
1001-3,300	\$ 22,973,334	\$ 34,824,876	\$ 578,315	\$ 0,2585	1,704	\$ 31,11	M	\$ 31,956,532	\$ 58,617,813	4,411,176	\$ 502,6	502,6	\$ 10,37
3,301-10,000	\$ 23,976,791	\$ 39,989,687	\$ 431,143	\$ 0,8252	945	\$ 18,74	L	\$ 9,619,194	\$ 16,029,923	207	\$ 41,442	37,5902	\$ 23,5
10,001-50,000	\$ 24,189,442	\$ 46,144,177	\$ 552,142	\$ 3,2049	451	\$ 11,11							
50,001-100,000	\$ 7,757,981	\$ 13,473,338	\$ 89,034	\$ 11,170	51	\$ 848							
100,001-1,000,000	\$ 9,619,194	\$ 16,026,923	\$ 41,442	\$ 37,5902	24	\$ 660							

PUBLIC

Results (MCL 300)

Monitoring Costs

Monitoring Cost	\$	Cost	50	Frequency
Monitoring Cost	\$			
No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size
25-100	1160.6	1083	\$ 236,112	\$ 224 WS
101-500	476.0	3924	\$ 948,508	\$ 242 WS
501-1000	3550.4	2518	\$ 710,076	\$ 262 S
1001-3,300	6363.1	3743	\$ 1,272,820	\$ 420 M
3,301-10,000	4336.6	1902	\$ 867,312	\$ 458 L
10,001-50,000	3888.3	987	\$ 777,680	\$ 457.6
50,001-100,000	693.1	113	\$ 186,320	\$ 760
100,001-1,000,000	457.6	52	\$ 91,520	\$ 1,760
Totals				

System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total Annual Cost	Cost per System
25-100	\$ 2,781,592	\$ 2,650,613	\$ 30,199,440	\$ 236,112	\$ 5,670,317 WS	\$ 16,626,015
101-500	\$ 13,844,424	\$ 16,195,876	\$ 171,579,357	\$ 949,608	\$ 30,989,809 VS	\$ 22,907,221
501-1000	\$ 6,020,317	\$ 10,088,553	\$ 108,686,386	\$ 710,076	\$ 16,788,946 S	\$ 13,650,541
1001-3,300	\$ 19,886,904	\$ 25,304,952	\$ 269,091,023	\$ 1,272,620	\$ 43,464,76 M	\$ 20,521,179
3,301-10,000	\$ 13,630,341	\$ 22,831,973	\$ 241,882,243	\$ 867,312	\$ 37,329,826 L	\$ 6,055,177
10,001-50,000	\$ 15,639,920	\$ 28,328,830	\$ 310,710,046	\$ 777,680	Total	\$ 79,730,134
50,001-100,000	\$ 4,861,259	\$ 8,478,051	\$ 89,816,586	\$ 198,620		\$ 125,128,294
100,001-1,000,000	\$ 6,045,177	\$ 10,087,444	\$ 106,654,846	\$ 91,520		\$ 100,654,846
Total	\$ 76,730,134	\$ 125,128,294	\$ 1,325,589,746	\$ 5,103,528		\$ 209,958,857

Per System Costs

System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 2,781,592	\$ 2,650,613	579	\$ 115,846	517	\$ 11,114 WS
101-500	\$ 13,844,424	\$ 16,195,876	2,237	\$ 447,467	1,849	\$ 16,488 VS
501-1000	\$ 6,020,317	\$ 10,088,553	1,178	\$ 235,688	836	\$ 19,533 S
1001-3,300	\$ 19,886,904	\$ 25,304,952	2,112	\$ 422,371	1,242	\$ 34,504 M
3,301-10,000	\$ 13,630,341	\$ 22,831,973	1,231	\$ 248,109	540	\$ 20,521 L
10,001-50,000	\$ 15,639,920	\$ 28,328,830	1,113	\$ 222,681	285	\$ 158,295
50,001-100,000	\$ 4,861,259	\$ 8,478,051	282	\$ 56,302	32	\$ 114,808
100,001-1,000,000	\$ 6,045,177	\$ 10,087,444	131	\$ 28,208	15	\$ 1,083,887

Household Costs HH Consumption [gal].

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost
25-100	\$ 2,781,592	\$ 2,850,613	\$ 115,846	0.0071	517	\$ 355.24 WS
101-500	\$ 13,844,424	\$ 16,195,876	\$ 447,467	0.0346	1,849	\$ 108.24 VS
501-1000	\$ 6,020,317	\$ 10,088,553	\$ 235,688	0.0847	836	\$ 13,650 S
1001-3,300	\$ 19,886,904	\$ 25,304,952	\$ 422,371	0.2505	1,242	\$ 31.15 M
3,301-10,000	\$ 13,630,341	\$ 22,831,973	\$ 248,109	0.8252	540	\$ 18.74 L
10,001-50,000	\$ 15,639,920	\$ 28,328,830	\$ 222,681	3.2049	285	\$ 11.23
50,001-100,000	\$ 4,861,259	\$ 8,478,051	\$ 56,302	11.1710	32	\$ 4.44
100,001-1,000,000	\$ 6,045,177	\$ 10,087,444	\$ 26,296	\$ 37,5902	15	\$ 6.58

Per System Costs

System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	System Size	O&M Cost	Annual Cap Cost	No. of Systems Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Affected Systems	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 2,781,592	\$ 2,650,613	579	WS	\$ 16,626,015	\$ 19,046,491	517	\$ 19,046,491	5	563,313	\$ 2,860,226	\$ 2,860,226	5	\$ 563,313
101-500	\$ 13,844,424	\$ 16,195,876	2,237	VS	\$ 22,907,221	\$ 35,313,505	1,849	\$ 32,980	3	22,907,221	\$ 2,078,0	\$ 2,078,0	3	\$ 687,312
501-1000	\$ 6,020,317	\$ 10,088,553	1,178	S	\$ 13,650,541	\$ 13,650,541	836	\$ 13,650,541	5	13,650,541	\$ 539.7	\$ 539.7	5	\$ 687,312
1001-3,300	\$ 19,886,904	\$ 25,304,952	2,112	M	\$ 20,521,179	\$ 37,806,882	1,242	\$ 1,395	3	20,521,179	\$ 27,982	\$ 27,982	3	\$ 91,520
3,301-10,000	\$ 13,630,341	\$ 22,831,973	1,231	L	\$ 6,045,177	\$ 10,087,444	540	\$ 6,045,177	5	6,045,177	\$ 131	\$ 131	5	\$ 1,083,887
10,001-50,000	\$ 15,639,920	\$ 28,328,830	1,113											
50,001-100,000	\$ 4,861,259	\$ 8,478,051	282											
100,001-1,000,000	\$ 6,045,177	\$ 10,087,444	131											
Totals														

Results (MCL 300)

PRIVATE

Monitoring Costs Cost Frequency

System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	13216.8	11890	\$ 2,683,360	\$ 224
101-500	11257.8	9304	\$ 2,251,568	\$ 242
501-1,000	2258.0	1800	\$ 451,200	\$ 282
1001-3,300	2305.2	1356	\$ 481,040	\$ 340
3,301-10,000	943.9	414	\$ 188,784	\$ 458
10,001-50,000	846.3	217	\$ 168,260	\$ 780
50,001-100,000	200.1	23	\$ 40,020	\$ 1,740
100,001-1,000,000	114.4	13	\$ 22,860	\$ 1,750
Total				

Per System Costs

System Size	O&M Cost	Annual Cap Cost	Total Annual Monitoring Cost	Cost
25-100	\$ 28,743,047	\$ 27,700,787	\$ 293,462,535	\$ 2,683,360
101-500	\$ 27,007,626	\$ 30,476,227	\$ 322,866,667	\$ 2,251,568
501-1,000	\$ 3,246,826	\$ 5,396,100	\$ 57,166,555	\$ 451,200
1001-3,300	\$ 5,127,374	\$ 7,731,234	\$ 81,904,008	\$ 481,040
3,301-10,000	\$ 2,519,746	\$ 4,239,924	\$ 44,917,815	\$ 188,784
10,001-50,000	\$ 2,988,480	\$ 5,847,942	\$ 59,434,382	\$ 168,260
50,001-100,000	\$ 852,420	\$ 1,498,108	\$ 15,870,977	\$ 40,020
100,001-1,000,000	\$ 1,453,436	\$ 2,435,641	\$ 25,803,217	\$ 22,860
Total	\$ 71,938,756	\$ 65,125,984	\$ 901,825,876	\$ 84,248,112
				\$ 863,312,834

Household Costs HH Consumption (gal):

83,000

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 28,743,047	\$ 27,700,787	\$ 6,479	\$ 1,285,778	\$ 5,785	\$ 9,981	WVS	\$ 55,750,873	\$ 58,177,015	\$ 11,764	\$ 2,356,746	\$ 10,188,0	\$ 11,436						
101-500	\$ 27,007,626	\$ 30,476,227	\$ 5,305	\$ 1,060,967	\$ 4,384	\$ 13,354	VS	\$ 8,374,003	\$ 13,127,334	\$ 1,514	\$ 302,764	\$ 961,1	\$ 22,225						
501-1,000	\$ 3,246,826	\$ 5,396,100	\$ 149,749	\$ 531	\$ 1558	\$ 2,519,746	S	\$ 4,239,924	\$ 268	\$ 53,569	\$ 117,5	\$ 57,990							
1001-3,300	\$ 5,127,374	\$ 7,731,234	\$ 765	\$ 153,015	\$ 450	\$ 26,912	M	\$ 3,841,900	\$ 7,146,050	\$ 300	\$ 59,927	\$ 66,7	\$ 160,759						
3,301-10,000	\$ 2,519,746	\$ 4,239,924	\$ 268	\$ 53,569	\$ 117	\$ 57,996	L	\$ 1,453,436	\$ 2,435,641	\$ 33	\$ 6,552	\$ 3,7	\$ 1,046,505						
10,001-50,000	\$ 2,988,480	\$ 5,847,942	\$ 242	\$ 48,467	\$ 62	\$ 139,639													
50,001-100,000	\$ 852,420	\$ 1,498,108	\$ 57	\$ 11,460	\$ 7	\$ 358,639													
100,001-1,000,000	\$ 1,453,436	\$ 2,435,641	\$ 33	\$ 6,552	\$ 4	\$ 1,046,505													

Household Costs HH Consumption (gal):

83,000

System Size	O&M Cost	Annual Cap Cost	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	HH Incremental Cost	
25-100	\$ 28,743,047	\$ 27,700,787	\$ 1,285,778	0,0052	\$ 438,07	WVS	\$ 55,750,873	\$ 58,177,015	\$ 13,127,334	\$ 302,764	\$ 0,1274	941,1	\$ 38,56					
101-500	\$ 27,007,626	\$ 30,476,227	\$ 1,060,967	0,0218	\$ 4,384	VS	\$ 8,374,003	\$ 13,127,334	\$ 4,239,924	\$ 53,569	\$ 0,8543	117,5	\$ 20,16					
501-1,000	\$ 3,246,826	\$ 5,396,100	\$ 149,749	0,0726	\$ 531	S	\$ 2,519,746	\$ 7,146,050	\$ 3,841,900	\$ 7,146,050	\$ 34,21	M	\$ 59,927	\$ 3,3474	\$ 66,7	\$ 10,92		
1001-3,300	\$ 5,127,374	\$ 7,731,234	\$ 153,015	0,1922	\$ 450		\$ 1,453,436	\$ 2,435,641	\$ 117	\$ 20,18	\$ 6,552	L	\$ 6,552	\$ 2,435,641	\$ 3,7	\$ 8,60		
3,301-10,000	\$ 2,519,746	\$ 4,239,924	\$ 53,569	0,6513	\$ 2,7355													
10,001-50,000	\$ 2,988,480	\$ 5,847,942	\$ 48,467	0,847,942	\$ 62													
50,001-100,000	\$ 852,420	\$ 1,498,108	\$ 11,460	1,498,108	\$ 7													
100,001-1,000,000	\$ 1,453,436	\$ 2,435,641	\$ 6,552	2,435,641	\$ 4													

PRIVATE

Results (MCL 400)

Monitoring Costs

Monitoring Cost \$ 50 Frequency 4

System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	1316.6	11890	\$ 2,683,360	\$ 224
101-500	11257.8	8394	\$ 2,251,568	\$ 242
501-1000	2258.0	451,200	\$ 282	\$ 451,200
1001-3,300	2305.2	1356	\$ 461,040	\$ 340
3,301-10,000	943.0	414	\$ 188,784	\$ 458
10,001-40,000	846.3	217	\$ 169,260	\$ 780
50,001-100,000	200.1	23	\$ 40,020	\$ 1,740
100,001-1,000,000	114.4	3	\$ 22,980	\$ 1,760

Totals

System Size	O&M Cost	Annual Cap Cost	Total Annual Cap Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total
25-100	\$ 22,013,510	\$ 21,902,572	\$ 232,026,155	\$ 2,683,360	WS	\$ 48,578,441	\$ 48,885,341	\$ 486,402,095	\$ 4,914,326	\$ 95,308,587
101-500	\$ 21,574,817	\$ 24,982,770	\$ 284,455,940	\$ 2,251,568	VS	\$ 48,789,155	\$ 9,835,670	\$ 104,189,230	\$ 912,240	\$ 17,140,612
501-1000	\$ 2,476,244	\$ 4,034,934	\$ 42,746,149	\$ 451,200	S	\$ 1,630,523	\$ 2,721,989	\$ 28,900,358	\$ 108,784	\$ 4,547,298
1001-3,300	\$ 3,914,358	\$ 6,000,736	\$ 61,453,080	\$ 461,040	M	\$ 2,547,639	\$ 4,700,534	\$ 49,797,525	\$ 209,280	\$ 7,457,473
3,301-10,000	\$ 1,630,523	\$ 2,721,989	\$ 28,900,358	\$ 169,260	L	\$ 947,812	\$ 1,568,757	\$ 16,810,123	\$ 22,880	\$ 2,557,449
10,001-50,000	\$ 1,989,875	\$ 3,720,311	\$ 39,413,033	\$ 10,384,492		\$ 55,108,923	\$ 85,716,292	\$ 686,169,331	\$ 6,246,112	\$ 187,071,329
50,001-100,000	\$ 557,784	\$ 980,223	\$ 16,810,123	\$ 40,020		\$ 1,578,922	\$ 22,880	\$ 2,557,449		
100,001-1,000,000	\$ 947,812	\$ 1,586,757	\$ 696,198,331	\$ 6,246,112		\$ 22,880	\$ 2,557,449			
Total	\$ 55,108,923	\$ 65,716,292	\$ 696,198,331	\$ 6,246,112		\$ 22,880	\$ 2,557,449	\$ 127,071,329		

Per System Costs

System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 22,013,510	\$ 21,902,572	5,203	\$ 1,040,675	4,646	\$ 9,677	WS	\$ 43,588,327	\$ 46,885,341	9,610	\$ 1,921,945	8,287,5	\$ 11,146
101-500	\$ 21,574,817	\$ 24,982,770	4,046	\$ 881,270	3,842	\$ 13,021	VS	\$ 6,392,602	\$ 9,835,670	1,144	\$ 228,889	741,7	\$ 22,198
501-1000	\$ 2,476,244	\$ 4,034,934	568	\$ 113,210	401	\$ 16,503	S	\$ 1,630,523	\$ 2,721,989	173	\$ 34,558	67,987	\$ 57,987
1001-3,300	\$ 3,914,358	\$ 6,000,736	576	\$ 115,879	340	\$ 28,994	M	\$ 2,547,639	\$ 4,700,534	198	\$ 39,627	45,4	\$ 160,334
3,301-10,000	\$ 1,630,523	\$ 2,721,989	173	\$ 34,558	76	\$ 57,967	L	\$ 947,812	\$ 1,568,757	22	\$ 4,332	2,557,449	\$ 1031,118
10,001-50,000	\$ 1,989,875	\$ 3,720,311	160	\$ 22,050	41	\$ 139,750		\$ 10,384,492	\$ 4,332	2	\$ 1,031,416		
50,001-100,000	\$ 557,784	\$ 980,223	38	\$ 7,578		\$ 354,892		\$ 1,578,922	\$ 22,880		\$ 2,557,449		
100,001-1,000,000	\$ 947,812	\$ 1,586,757	22	\$ 4,332		\$ 1,031,416		\$ 22,880	\$ 2,557,449				

Household Costs HH Consumption (gal):

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost
25-100	\$ 22,013,510	\$ 21,902,572	\$ 1,040,675	0.0052	4,646	\$ 425,28	WS	\$ 43,588,327	\$ 46,885,341	1,921,945	0.0124	\$ 1,921,945	\$ 204,600
101-500	\$ 21,574,817	\$ 24,982,770	0.0218	3,842	137,21	\$ 1,630,523	VS	\$ 6,392,602	\$ 9,835,670	228,889	0.1274	741,7	\$ 39,559
501-1000	\$ 2,476,244	\$ 4,034,934	0.0728	401	51,72	\$ 1,630,523	S	\$ 1,630,523	\$ 2,721,989	34,558	0.6543	75,6	\$ 20,115
1001-3,300	\$ 3,914,358	\$ 6,000,736	0.1922	340	34,19	\$ 2,547,639	M	\$ 4,700,534	\$ 1,568,757	3,3474	45,4	45,4	\$ 10,89
3,301-10,000	\$ 1,630,523	\$ 2,721,989	0.68543	76	5	\$ 947,812	L	\$ 1,568,757	\$ 4,332	36,0777	2,5	2,5	\$ 6,50
10,001-50,000	\$ 1,989,875	\$ 3,720,311	0.7355	41	11,62								
50,001-100,000	\$ 557,784	\$ 980,223	7,578	6,1202	4	\$ 85							
100,001-1,000,000	\$ 947,812	\$ 1,586,757	4,332	36,0777	2	\$ 6,50							

PUBLIC

Results (MCL 500)

Monitoring Costs	Monitoring Cost	Cost	50	Frequency	4	No. of Systems
	System Size	No. of Sites				
	124-100	1180.8			1063	
	101-500	476.0			3824	
	501-1000	350.4			2518	
	1001-3000	6363.1			3743	
	3,301-10,000	4356.6			1902	
	30,001-100,000	8813.0			987	
	50,001-100,000	8813.0			113	
	100,001-1,000,000	457.6			52	
	100,001-1,000,000	457.6				

System Size		No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	101-500	1190.6	1063	\$ 238,112	\$	224	VVS	5938.6	\$ 1,187,720	\$ 238
501-1000	1001-5000	4748.0	3924	\$ 94,9608	\$	242	VSS	9913.5	\$ 1,862,686	\$ 317
1001-3,300	3,301-10,000	3550.4	2510	\$ 71,076	\$	282	S	4336.6	\$ 867,312	\$ 456
10,001-50,000	50,001-100,000	6363.1	3743	\$ 1,272,620	\$	340	M	3471.4	\$ 974,280	\$ 878
100,001-1,000,000	1,000,001-10,000,000	4336.6	1902	\$ 867,312	\$	456	L	457.6	\$ 91,520	\$ 1,760
100,001-1,000,000		983.1	113	\$ 186,620	\$	1740				
100,001-1,000,000		457.6	62	\$ 91,520	\$	1760				

System Size		OEM Cost	Annual Cap Cost	Cap Cost	Total Annual Cost	System Size	OEM Cost	Annual Cap Cost	Cap Cost	Total
Total										
25-100	\$ 1,732,298	\$ 1,850,563	\$ 19,868,458	\$ 236,112	\$ 3,826,973	WS	\$ 11,090,058	\$ 13,180,372	\$ 139,633,048	\$ 26,458,167
101-500	\$ 9,357,761	\$ 11,323,803	\$ 119,964,588	\$ 949,608	\$ 21,831,177	VS	\$ 13,027,958	\$ 20,921,756	\$ 218,487,173	\$ 36,232,407
501-1,000	\$ 10,043,130	\$ 10,043,130	\$ 10,043,130	\$ 1,272,620	\$ 10,383,365	S	\$ 5,376,441	\$ 9,659,786	\$ 105,509,785	\$ 867,312
1,001-10,000	\$ 13,310,10,000	\$ 13,310,10,000	\$ 13,310,10,000	\$ 1,272,620	\$ 14,757,733	M	\$ 9,021,218	\$ 17,241,236	\$ 182,717,484	\$ 874,260
10,001-50,000	\$ 7,998,990	\$ 13,416,547	\$ 105,509,785	\$ 867,312	\$ 18,765,441	L	\$ 2,212,497	\$ 4,271,109	\$ 47,980,000	\$ 91,520
50,001-100,000	\$ 2,204,528	\$ 3,826,689	\$ 40,561,187	\$ 777,660	\$ 2,219,170	S	\$ 6,535,051	\$ 6,535,051	\$ 694,287,754	\$ 5,103,520
100,001-1,000,000	\$ 120,000,000	\$ 2,721,104	\$ 4,790,257	\$ 196,620	\$ 2,229,837		\$ 61,520	\$ 7,340,126		\$ 113,656,640
Total	\$ 42,919,170	\$ 65,535,051	\$ 694,287,754	\$						\$ 5,103,528
Total	\$ 42,919,170	\$ 65,535,051	\$ 694,287,754	\$						\$ 113,656,640

Per System Costs		HH Consumption (gal):		83,000		Monitoring Cost for Systems Above Reg. Limit		No. of Sys. Above Reg. Limit		Monitoring Cost for Systems Above Reg. Limit		No. of Sys. Above Reg. Limit		Monitoring Cost for Systems Above Reg. Limit	
System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	System Size	O&M Cost	Annual Cap Cost	No. of Sys. Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	System Size	O&M Cost	Annual Cap Cost	No. of Sys. Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit
25-100	\$ 1,732,298	\$ 1,856,563	366	\$ 77,223	345	\$ 10,634	VWS	\$ 11,090,058	\$ 13,180,372	1,978	\$ 395,553	\$ 1,680,2	\$ 1,680,2	\$ 14,856	
501-1,000	\$ 9,357,761	\$ 11,323,808	1,592	\$ 318,330	1,315	\$ 15,984	V5	\$ 13,627,958	\$ 20,621,756	1,932	\$ 396,354	\$ 1,220,0	\$ 1,220,0	\$ 26,386	
501-1,000	\$ 9,357,761	\$ 11,323,808	1,592	\$ 318,330	1,315	\$ 15,984	V5	\$ 13,627,958	\$ 20,621,756	1,932	\$ 396,354	\$ 1,220,0	\$ 1,220,0	\$ 26,386	
1001-3,300	\$ 10,495,688	\$ 14,775,733	692	\$ 138,387	491	\$ 18,497	S	\$ 5,978,441	\$ 9,659,376	538	\$ 107,564	\$ 235,9	\$ 235,9	\$ 60,013	
1001-3,300	\$ 10,495,688	\$ 14,775,733	692	\$ 138,387	491	\$ 18,497	S	\$ 5,978,441	\$ 9,659,376	538	\$ 107,564	\$ 235,9	\$ 235,9	\$ 60,013	
3,301-10,000	\$ 5,978,441	\$ 9,959,378	538	\$ 247,986	729	\$ 34.71	M	\$ 9,503,218	\$ 17,247,238	636	\$ 127,513	\$ 145,3	\$ 145,3	\$ 165,014	
3,301-10,000	\$ 5,978,441	\$ 9,959,378	538	\$ 247,986	729	\$ 34.71	M	\$ 9,503,218	\$ 17,247,238	636	\$ 127,513	\$ 145,3	\$ 145,3	\$ 165,014	
10,001-50,000	\$ 7,452,1497	\$ 13,416,547	509	\$ 101,779	130	\$ 159,550	L	\$ 68,013	\$ 2,721,497	60	\$ 11,978	\$ 6,8	\$ 6,8	\$ 1,060,840	
10,001-50,000	\$ 7,452,1497	\$ 13,416,547	509	\$ 101,779	130	\$ 159,550	L	\$ 68,013	\$ 2,721,497	60	\$ 11,978	\$ 6,8	\$ 6,8	\$ 1,060,840	
50,001-100,000	\$ 2,204,690	\$ 3,828,688	129	\$ 25,733	15	\$ 409,685		\$ 50,001	\$ 1,060,840						
50,001-100,000	\$ 2,204,690	\$ 3,828,688	129	\$ 25,733	15	\$ 409,685		\$ 50,001	\$ 1,060,840						
100,001-1,000,000	\$ 2,721,497	\$ 4,527,109	60	\$ 11,978	7	\$ 1,060,840		\$ 100,001-1,000,000	\$ 2,721,497						

Results (MCL 500)

PRIVATE

Monitoring Costs		Cost	Frequency	
System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	13,981,153	18,050,439	\$ 2,663,380	\$ 224
101-500	11,257,8	9,304	\$ 2,251,568	\$ 242
501-1,000	225,60	18,00	\$ 451,200	\$ 282
1,001-3,300	230,52	1356	\$ 461,040	\$ 340
3,301-10,000	943,9	414	\$ 188,784	\$ 458
10,001-50,000	846,3	217	\$ 169,280	\$ 114,4
50,001-100,000	200,1	23	\$ 40,020	\$ 13,0
100,001-1,000,000	114,4	13	\$ 22,880	\$ 1,780

Totals

System Size	O&M Cost	Annual Cap Cost	Total Annual Cap Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Total Annual Monitoring Cost
25-100	\$ 17,981,153	\$ 18,050,439	\$ 191,226,807	\$ 2,663,380	WS	\$ 38,894,952	\$ 39,322,454	\$ 416,582,634
101-500	\$ 18,261,847	\$ 21,272,015	\$ 255,356,026	\$ 2,251,568	VS	\$ 4,972,855	\$ 7,623,382	\$ 80,762,218
501-1,000	\$ 1,928,127	\$ 3,123,850	\$ 33,093,898	\$ 451,200	S	\$ 1,104,360	\$ 1,988,645	\$ 19,584,574
1,001-3,300	\$ 3,044,728	\$ 4,498,562	\$ 47,886,317	\$ 461,040	M	\$ 8,065,320	\$ 3,259,248	\$ 34,528,517
3,301-10,000	\$ 1,104,360	\$ 1,848,645	\$ 19,584,574	\$ 188,784	L	\$ 3,141,789	\$ 654,362	\$ 209,280
10,001-50,000	\$ 1,384,415	\$ 2,582,319	\$ 27,357,123	\$ 169,280	Total	\$ 4,145,984	\$ 1,095,394	\$ 11,604,632
50,001-100,000	\$ 385,201	\$ 678,929	\$ 7,171,393	\$ 40,020		\$ 44,754,193	\$ 53,149,123	\$ 563,082,562
100,001-1,000,000	\$ 654,362	\$ 1,085,394	\$ 11,604,622	\$ 22,880		\$ 1,02,149		\$ 6248,112
Total	\$ 44,754,193	\$ 53,149,123	\$ 563,082,562	\$ 6,248,112		\$ 380,157,427		\$ 7,172,937

Per System Costs

System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 17,981,153	\$ 18,050,439	4,319	\$ 883,768	3,856	\$ 9588	WS	\$ 36,243,000	\$ 39,322,454	1,618,645	\$ 1,618,645	1,618,645	\$ 6,976,0
101-500	\$ 18,261,847	\$ 21,272,015	3,774	\$ 754,776	3,119	\$ 12,918	VS	\$ 4,972,855	\$ 7,623,382	889	\$ 177,762	889	\$ 22,177
501-1,000	\$ 1,928,127	\$ 3,123,850	440	\$ 87,922	312	\$ 16,486	S	\$ 1,104,360	\$ 1,988,645	117	\$ 23,413	117	\$ 67,810
1,001-3,300	\$ 3,044,728	\$ 4,498,562	449	\$ 89,840	264	\$ 26,691	M	\$ 3,779,615	\$ 3,259,248	137	\$ 27,390	137	\$ 181,250
3,301-10,000	\$ 1,104,360	\$ 1,848,645	23,413	\$ 57,970	51	\$ 57,970	L	\$ 654,362	\$ 1,095,394	15	\$ 2,995	15	\$ 1,030,394
10,001-50,000	\$ 1,384,415	\$ 2,582,319	111	\$ 22,153	28	\$ 140,802							
50,001-100,000	\$ 385,201	\$ 678,929	26	\$ 5,238	3	\$ 354,582							
100,001-1,000,000	\$ 654,362	\$ 1,085,394	15	\$ 2,995	2	\$ 1,030,168							

Household Costs HH Consumption (gal): 83,000

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	No. of Sys. Above Reg. Limit	HH Incremental Cost	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost
25-100	\$ 17,981,153	\$ 18,050,439	\$ 883,768	0.0052	3,856	\$ 9588	WS	\$ 36,243,000	\$ 39,322,454	1,618,645	\$ 1,618,645	1,618,645	0.0126	\$ 6,976,0
101-500	\$ 18,261,847	\$ 21,272,015	\$ 754,776	0.0216	3,119	\$ 12,918	VS	\$ 4,972,855	\$ 7,623,382	889	\$ 177,762	889	0.1274	\$ 22,177
501-1,000	\$ 1,928,127	\$ 3,123,850	\$ 87,922	0.0726	312	\$ 16,486	S	\$ 1,104,360	\$ 1,988,645	117	\$ 23,413	117	0.6543	\$ 67,810
1,001-3,300	\$ 3,044,728	\$ 4,498,562	\$ 86,840	0.1922	264	\$ 26,691	M	\$ 3,779,615	\$ 3,259,248	137	\$ 27,390	137	3.3474	\$ 181,250
3,301-10,000	\$ 1,104,360	\$ 1,848,645	\$ 23,413	0.6543	51	\$ 57,970	L	\$ 654,362	\$ 1,095,394	15	\$ 2,995	15	36,0777	\$ 1,030,394
10,001-50,000	\$ 1,384,415	\$ 2,582,319	22,153	2,7355	28	\$ 11,70								
50,001-100,000	\$ 385,201	\$ 678,929	5,238	9,1202	3	\$ 8,84								
100,001-1,000,000	\$ 654,362	\$ 1,085,394	2,995	36,0777	2	\$ 6,49								

PUBLIC

Results (700)

Monitoring Costs		
Monitoring Cost	\$	Cost Frequency
System Size	No. of Sites	No. of Systems
25-100	1190.6	1083
101-500	4748.0	3824
501-1000	3550.4	3018
1001-3,300	6363.1	3743
3,301-10,000	4336.6	1802
10,001-50,000	3888.3	987
50,001-100,000	983.1	113
100,001-1,000,000	457.8	52
Total:	\$ 100,001,1,000,000	983,1

Monitoring Costs		
Monitoring Cost	\$	Cost Frequency
System Size	No. of Sites	No. of Systems
25-100	1190.6	1083
101-500	4748.0	3824
501-1000	3550.4	3018
1001-3,300	6363.1	3743
3,301-10,000	4336.6	1802
10,001-50,000	3888.3	987
50,001-100,000	983.1	113
100,001-1,000,000	457.8	52
Total:	\$ 100,001,1,000,000	983,1

Monitoring Costs		
O&M Cost	Annual Cap Cost	Cap Cost
System Size	No. of Sites	No. of Systems
25-100	\$ 1,229,539	\$ 1,353,177
101-500	\$ 7,111,247	\$ 8,770,741
501-1000	\$ 2,307,150	\$ 3,745,089
1001-3,300	\$ 6,471,376	\$ 9,487,629
3,301-10,000	\$ 3,150,682	\$ 5,247,074
10,001-50,000	\$ 3,832,684	\$ 7,093,943
50,001-100,000	\$ 1,169,563	\$ 2,031,223
100,001-1,000,000	\$ 1,442,626	\$ 2,398,020
Total:	\$ 26,714,689	\$ 40,107,898

Monitoring Costs		
O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit
System Size	No. of Sites	Reg. Limit
25-100	\$ 1,229,539	\$ 1,353,177
101-500	\$ 7,111,247	\$ 8,770,741
501-1000	\$ 2,307,150	\$ 3,745,089
1001-3,300	\$ 6,471,376	\$ 9,487,629
3,301-10,000	\$ 3,150,682	\$ 5,247,074
10,001-50,000	\$ 3,832,684	\$ 7,093,943
50,001-100,000	\$ 1,169,563	\$ 2,031,223
100,001-1,000,000	\$ 1,442,626	\$ 2,398,020
Total:	\$ 26,714,689	\$ 40,107,898

Household Consumption [gal]:		
O&M Costs	HH Consumption [gal]	Monitoring Cost for Systems Above Reg. Limit
System Size	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit
25-100	\$ 1,229,539	\$ 1,353,177
101-500	\$ 7,111,247	\$ 8,770,741
501-1000	\$ 2,307,150	\$ 3,745,089
1001-3,300	\$ 6,471,376	\$ 9,487,629
3,301-10,000	\$ 3,150,682	\$ 5,247,074
10,001-50,000	\$ 3,832,684	\$ 7,093,943
50,001-100,000	\$ 1,169,563	\$ 2,031,223
100,001-1,000,000	\$ 1,442,626	\$ 2,398,020
Total:	\$ 100,001,1,000,000	\$ 983,1

Household Consumption [gal]:		
O&M Costs	HH Consumption [gal]	Monitoring Cost for Systems Above Reg. Limit
System Size	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit
25-100	\$ 1,229,539	\$ 1,353,177
101-500	\$ 7,111,247	\$ 8,770,741
501-1000	\$ 2,307,150	\$ 3,745,089
1001-3,300	\$ 6,471,376	\$ 9,487,629
3,301-10,000	\$ 3,150,682	\$ 5,247,074
10,001-50,000	\$ 3,832,684	\$ 7,093,943
50,001-100,000	\$ 1,169,563	\$ 2,031,223
100,001-1,000,000	\$ 1,442,626	\$ 2,398,020
Total:	\$ 100,001,1,000,000	\$ 983,1

Monitoring Costs		
O&M Cost	Annual Cap Cost	Cap Cost
System Size	No. of Sites	No. of Systems
25-100	\$ 1,229,539	\$ 1,353,177
101-500	\$ 7,111,247	\$ 8,770,741
501-1000	\$ 2,307,150	\$ 3,745,089
1001-3,300	\$ 6,471,376	\$ 9,487,629
3,301-10,000	\$ 3,150,682	\$ 5,247,074
10,001-50,000	\$ 3,832,684	\$ 7,093,943
50,001-100,000	\$ 1,169,563	\$ 2,031,223
100,001-1,000,000	\$ 1,442,626	\$ 2,398,020
Total:	\$ 100,001,1,000,000	\$ 983,1

Results (700)

Private

Monitoring Costs		Cost	Frequency
Monitoring Cost	\$	50	4
System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost
25-100	13316.8	11890	\$ 2,683,360
101-500	11257.8	9304	\$ 2,251,588
501-1000	2256.0	1600	\$ 451,200
1001-3,300	2305.2	1356	\$ 481,040
3,301-10,000	943.9	414	\$ 188,784
10,001-50,000	846.3	217	\$ 169,260
50,001-100,000	200.1	23	\$ 40,020
100,001-1,000,000	114.4	13	\$ 22,880
Total			\$ 1,760

System Site	O&M Cost	Annual Cap Cost	Annual Cap Cost	Total Annual Monitoring Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Annual Monitoring Cost	Cost per System
25-100	\$ 12,784,447	\$ 13,158,875	\$ 138,403,188	\$ 2,683,360	\$ 28,616,482	VS	\$ 26,674,732	\$ 29,620,192	\$ 313,786,736	\$ 4,914,928
101-500	\$ 13,880,285	\$ 18,461,517	\$ 174,393,548	\$ 2,251,588	\$ 32,583,370	VS	\$ 3,201,560	\$ 4,879,854	\$ 51,689,239	\$ 912,240
501-1000	\$ 1,241,160	\$ 1,899,498	\$ 21,182,884	\$ 451,200	\$ 3,691,855	S	\$ 582,171	\$ 973,900	\$ 10,317,515	\$ 18,784
1001-3,300	\$ 1,980,400	\$ 2,880,358	\$ 30,514,558	\$ 461,040	\$ 5,301,799	M	\$ 936,866	\$ 1,724,984	\$ 18,247,614	\$ 5,260,240
3,301-10,000	\$ 582,171	\$ 973,900	\$ 10,317,515	\$ 188,784	\$ 1,744,856	L	\$ 348,873	\$ 580,495	\$ 6,149,770	\$ 950,248
10,001-50,000	\$ 732,501	\$ 1,385,811	\$ 14,468,423	\$ 169,260	\$ 2,267,572	Total	\$ 31,742,231	\$ 37,779,435	\$ 400,235,874	\$ 6,248,112
50,001-100,000	\$ 204,384	\$ 359,183	\$ 3,805,191	\$ 40,020	\$ 603,597					
100,001-1,000,000	\$ 346,873	\$ 580,495	\$ 9,189,770	\$ 22,880	\$ 850,248					
Total	\$ 31,742,231	\$ 37,779,435	\$ 400,235,874	\$ 6,248,112	\$ 75,789,778					

System Site	O&M Cost	Annual Cap Cost	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	Total	
25-100	\$ 12,784,447	\$ 13,158,875	3,177	\$ 635,346	2,836	\$ 9,374	VS	\$ 26,674,732	\$ 29,620,192	\$ 6,120	\$ 1,224,027	\$ 6,248,0	\$ 10,817	
101-500	\$ 13,880,285	\$ 18,461,517	2,943	\$ 588,881	2,433	\$ 12,715	VS	\$ 3,201,560	\$ 4,879,854	\$ 570	\$ 114,084	\$ 386,7	\$ 22,170	
501-1000	\$ 1,241,160	\$ 1,899,498	282	\$ 56,427	200	\$ 18,479	S	\$ 582,171	\$ 973,900	\$ 62	\$ 12,338	\$ 27,1	\$ 67,907	
1001-3,300	\$ 1,980,400	\$ 2,880,358	288	\$ 57,657	170	\$ 28,898	M	\$ 936,866	\$ 1,724,984	\$ 73	\$ 14,670	\$ 16,7	\$ 160,101	
3,301-10,000	\$ 582,171	\$ 973,900	62	\$ 12,338	27	\$ 57,987	L	\$ 348,873	\$ 580,495	\$ 8	\$ 1,594	\$ 0,9	\$ 1,025,864	
10,001-50,000	\$ 732,501	\$ 1,385,811	59	\$ 11,790	15	\$ 139,861								
50,001-100,000	\$ 204,384	\$ 359,183	14	\$ 2,768	2	\$ 393,519								
100,001-1,000,000	\$ 346,873	\$ 580,495	8	\$ 1,594	1	\$ 1,025,864								
Total	\$ 31,742,231	\$ 37,779,435	\$ 400,235,874	\$ 6,248,112	\$ 75,789,778									

Household Costs HH Consumption (gal): 83,000

System Site	O&M Cost	Annual Cap Cost	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Affected Systems	Affected Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	HH Incremental Cost
25-100	\$ 12,784,447	\$ 13,158,875	\$ 635,346	0,0052	\$ 2,836	VS	\$ 26,674,732	\$ 29,620,192	\$ 6,120	\$ 1,224,027	\$ 6,248,0	\$ 10,817	
101-500	\$ 13,880,285	\$ 18,461,517	\$ 588,681	0,0216	\$ 2,433	S	\$ 3,201,560	\$ 4,879,854	\$ 570	\$ 114,084	\$ 386,7	\$ 22,170	
501-1000	\$ 1,241,160	\$ 1,899,498	282	0,0728	200	M	\$ 582,171	\$ 973,900	\$ 62	\$ 12,338	\$ 27,1	\$ 67,907	
1001-3,300	\$ 1,980,400	\$ 2,880,358	288	0,1822	170	N	\$ 936,866	\$ 1,724,984	\$ 73	\$ 14,670	\$ 16,7	\$ 160,101	
3,301-10,000	\$ 582,171	\$ 973,900	62	0,6543	170		\$ 348,873	\$ 580,495	\$ 8	\$ 1,594	\$ 0,9	\$ 1,025,864	
10,001-50,000	\$ 732,501	\$ 1,385,811	59	1,7355	16	\$ 11,90							
50,001-100,000	\$ 204,384	\$ 359,183	14	2,768	9,1202	2	\$ 28,674,732	\$ 29,620,192	\$ 6,120	\$ 1,224,027	\$ 6,248,0	\$ 10,817	
100,001-1,000,000	\$ 346,873	\$ 580,495	8	1,594	36,0777	1							
Total	\$ 12,784,447	\$ 13,158,875	\$ 635,346	0,0052	\$ 2,836	VS	\$ 26,674,732	\$ 29,620,192	\$ 6,120	\$ 1,224,027	\$ 6,248,0	\$ 10,817	

PUBLIC

Results (1000 MCL)

Monitoring Costs

Monitoring Cost	Cost	50	Frequency	4
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System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	1190	1083	\$ 238,112	\$
101-500	4746	3924	\$ 949,808	\$ 5
501-1,000	3550	2822	\$ 710,076	\$ 5
1001-3,300	8633	3743	\$ 1,272,820	\$ 5
3,301-10,000	4338	1902	\$ 887,312	\$ 5
10,001-50,000	3888	997	\$ 787,880	\$ 780
50,001-100,000	983	113	\$ 188,820	\$ 1,740
100,001-1,000,000		52	\$ 91,520	\$ 1,760
Total:			\$ 457,6	

Per System Costs

System Size	Op & M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total
25-100	\$ 826,384	\$ 927,172	\$	\$ 9,822,476	\$ 10,646	VWS	\$ 6,063,740	\$ 7,488,483	\$	\$ 79,333,092	\$ 1,187,720	\$ 238	\$ 14,739,843			
101-500	\$ 5,237,376	\$ 6,581,310	\$	\$ 69,510,616	\$ 849,608	VWS	\$ 5,101,315	\$ 7,685,218	\$	\$ 60,983,548	\$ 1,982,696	\$ 317	\$ 14,729,228			
501-1,000	\$ 1,341,182	\$ 2,192,216	\$	\$ 22,908,551	\$ 710,076	VS	\$ 1,557,443	\$ 2,592,421	\$	\$ 27,464,147	\$ 867,312	\$ 458	\$ 6,017,176			
1001-3,300	\$ 3,760,133	\$ 5,483,001	\$	\$ 58,086,995	\$ 1,272,820	M	\$ 2,397,121	\$ 4,308,227	\$	\$ 45,620,234	\$ 974,280	\$ 678	\$ 7,677,629			
3,301-10,000	\$ 1,557,443	\$ 2,592,421	\$	\$ 27,464,147	\$ 667,312	L	\$ 674,083	\$ 1,120,795	\$	\$ 11,873,718	\$ 91,520	\$ 1,760	\$ 1,986,407			
10,001-50,000	\$ 1,850,356	\$ 3,358,686	\$	\$ 35,560,584	\$ 777,880	L	\$ 5,984,682	\$ 196,620	\$	\$ 245,284,735	\$ 5,103,526	\$ 1,760	\$ 1,056,921			
50,001-100,000	\$ 548,785	\$ 949,582	\$	\$ 10,059,689	\$ 91,520	S	\$ 1,886,407	\$ 11,873,716	\$	\$ 245,284,735	\$ 5,103,526	\$ 1,760	\$ 1,056,921			
100,001-1,000,000	\$ 670,093	\$ 1,120,795	\$	\$ 11,873,716	\$ 91,520	S	\$ 1,886,407	\$ 11,873,716	\$	\$ 245,284,735	\$ 5,103,526	\$ 1,760	\$ 1,056,921			
Total:	\$ 15,793,712	\$ 23,153,144	\$	\$ 245,284,735	\$ 5,103,526		\$ 245,284,735	\$ 5,103,526	\$	\$ 245,284,735	\$ 5,103,526	\$ 1,760	\$ 1,056,921			

Household Costs HH Consumption [gal]:

System Size	Op & M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg.	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	Affected Systems	Monitoring Cost for Systems Above Reg.	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg.	Affected Systems	HH Incremental Cost
25-100	\$ 826,384	\$ 927,172	\$ 198	\$ 39,512	\$ 1,0165	VWS	\$ 6,063,740	\$ 7,488,483	\$ 1,135	\$ 227,088	WVS	\$ 5,103,526	\$ 14,739,843		\$ 851,6	\$ 14,482			
101-500	\$ 5,237,376	\$ 6,581,310	\$ 938	\$ 187,577	\$ 775	VS	\$ 5,101,315	\$ 7,685,218	\$ 719	\$ 147,739	VS	\$ 453,9	\$ 26,399						
501-1,000	\$ 1,341,182	\$ 2,192,216	\$ 257	\$ 51,478	\$ 183	S	\$ 1,557,443	\$ 2,592,421	\$ 140	\$ 26,011	S	\$ 68,013	\$ 6,017,176						
1001-3,300	\$ 3,760,133	\$ 5,483,001	\$ 481	\$ 92,281	\$ 271	M	\$ 2,397,121	\$ 4,308,227	\$ 158	\$ 31,781	M	\$ 30,2	\$ 186,012						
3,301-10,000	\$ 1,557,443	\$ 2,592,421	\$ 140	\$ 28,011	\$ 81	L	\$ 674,083	\$ 1,120,795	\$ 15	\$ 2,985	L	\$ 17	\$ 1,056,921						
10,001-50,000	\$ 1,850,356	\$ 3,358,686	\$ 127	\$ 25,387	\$ 33	S	\$ 180,886	\$ 4,144	\$ 407,884	\$ 1,120,795	S	\$ 37,5902	\$ 1,760						
50,001-100,000	\$ 548,785	\$ 949,582	\$ 32	\$ 6,414	\$ 4	S	\$ 1,886,407	\$ 2,885	\$ 2,885	\$ 1,120,795	S	\$ 2,985	\$ 1,760						
100,001-1,000,000	\$ 674,083	\$ 1,120,795	\$ 15	\$ 2,885	\$ 2,885	S	\$ 1,886,407	\$ 2,885	\$ 2,885	\$ 1,120,795	S	\$ 2,985	\$ 1,760						
Total:	\$ 15,793,712	\$ 23,153,144	\$	\$ 245,284,735	\$ 5,103,526		\$ 245,284,735	\$ 5,103,526	\$	\$ 245,284,735	\$ 5,103,526	\$ 1,760	\$ 1,056,921						

Results (1000 MCL)

PRIVATE

Monitoring Costs		Cost	50	4
System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	13316.6	11690	\$ 2,683,360	\$ 224
101-500	11257.8	9304	\$ 2,351,568	\$ 242
501-1000	2256.0	1800	\$ 451,200	\$ 282
1001-3,300	2305.2	1356	\$ 461,040	\$ 340
3,301-10,000	943.9	414	\$ 168,784	\$ 456
10,001-50,000	846.3	217	\$ 169,260	\$ 780
50,001-100,000	200.1	23	\$ 40,020	\$ 1,740
100,001-1,000,000	114.4	5	\$ 42,880	\$ 1,760
Total			\$ 50,001-1,000,000	\$ 114.4

System Size	O&M Cost	Annual Cap Cost	Annual Cap Cost	Total Annual Monitoring Cost	Total Annual Cost	System Size	O&M Cost	Annual Cap Cost	Annual Cap Cost	Annual Monitoring Cost	Total
25-100	\$ 8,620,082	\$ 9,019,508	\$ 95,552,803	\$ 2,683,360	\$ 20,302,931	VWS	\$ 18,844,916	\$ 21,324,253	\$ 225,909,437	\$ 4,914,828	\$ 45,084,097
101-500	\$ 10,224,854	\$ 12,304,744	\$ 130,356,835	\$ 2,251,568	\$ 24,781,168	VWS	\$ 1,659,954	\$ 2,820,868	\$ 5,820,868	\$ 912,240	\$ 5,593,081
501-1,000	\$ 721,238	\$ 1,153,746	\$ 12,222,805	\$ 451,200	\$ 2,326,182	S	\$ 287,767	\$ 481,154	\$ 5,087,361	\$ 168,784	\$ 987,705
1001-3,300	\$ 1,138,718	\$ 1,687,121	\$ 17,681,507	\$ 461,040	\$ 3,268,879	M	\$ 446,923	\$ 813,530	\$ 8,618,548	\$ 209,260	\$ 1,471,733
3,301-10,000	\$ 287,767	\$ 461,154	\$ 5,087,351	\$ 188,784	\$ 957,705	L	\$ 162,084	\$ 271,206	\$ 2,873,156	\$ 22,880	\$ 456,170
10,001-50,000	\$ 353,363	\$ 845,604	\$ 6,839,540	\$ 169,260	\$ 168,227	Total	\$ 21,803,844	\$ 25,711,010	\$ 272,362,805	\$ 6,248,112	\$ 55,533,795
50,001-100,000	\$ 95,560	\$ 167,926	\$ 1,778,009	\$ 40,020	\$ 303,508						
100,001-1,000,000	\$ 102,084	\$ 221,208	\$ 2,873,156	\$ 22,880	\$ 456,170						
Total	\$ 21,803,844	\$ 25,711,010	\$ 272,362,805	\$ 6,248,112	\$ 55,533,795						

Per System Costs

System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	Cost per System
25-100	\$ 8,620,082	\$ 9,019,509	2,210	\$ 441,949	1,973	\$ 9,165	VWS	\$ 18,844,916	\$ 21,324,253	4,334	\$ 606,703	\$ 3,610,8
101-500	\$ 10,224,854	\$ 12,304,744	2,224	\$ 447,753	1,836	\$ 12,501	VWS	\$ 1,659,954	\$ 2,820,868	331	\$ 66,134	\$ 214,3
501-1,000	\$ 721,238	\$ 1,153,746	164	\$ 327,111	116	\$ 18,446	S	\$ 287,767	\$ 481,154	30	\$ 6,097	\$ 13,4
1001-3,300	\$ 1,138,718	\$ 1,687,121	167	\$ 33,424	98	\$ 28,882	M	\$ 446,923	\$ 813,530	34	\$ 6,827	\$ 162,30
3,301-10,000	\$ 287,767	\$ 461,154	30	\$ 0.097	13	\$ 57,964	L	\$ 162,084	\$ 271,206	4	\$ 746	\$ 0.4
10,001-50,000	\$ 353,363	\$ 845,604	28	\$ 5,321	7	\$ 141,907						
50,001-100,000	\$ 95,560	\$ 167,926	7	\$ 1,305	1	\$ 352,934						
100,001-1,000,000	\$ 102,084	\$ 221,208	4	\$ 746	0	\$ 1,023,529						
Household Costs HH Consumption (gal): 83,000												
System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Affected Systems	Average Daily Flow (MGD)
25-100	\$ 8,620,082	\$ 8,019,508	\$ 441,948	0.0052	1,973	\$ 402,77	VWS	\$ 18,844,916	\$ 21,324,253	\$ 21,324,253	886,703	0.0131
101-500	\$ 10,224,854	\$ 12,304,744	\$ 447,753	0.0216	1,838	\$ 131,72	VWS	\$ 1,659,954	\$ 2,820,868	\$ 68,134	481,154	0.1274
501-1,000	\$ 721,238	\$ 1,153,746	32,711	0.0726	116	\$ 51,53	S	\$ 287,767	\$ 481,154	\$ 6,097	813,530	0.0543
1001-3,300	\$ 1,138,718	\$ 1,687,121	33,424	0.1922	98	\$ 34,17	M	\$ 446,923	\$ 813,530	\$ 6,827	334,74	0.134
3,301-10,000	\$ 287,767	\$ 461,154	6,087	0.6543	13	\$ 2,755	L	\$ 162,084	\$ 271,206	4	746	0.4
10,001-50,000	\$ 353,363	\$ 845,604	5,521	0.097	7	\$ 11,80						
50,001-100,000	\$ 95,560	\$ 167,926	1,305	0.0202	1	\$ 8,80						
100,001-1,000,000	\$ 102,084	\$ 221,208	746	0.0777	0	\$ 6,45						

Results (2000 MCL)

PUBLIC

Monitoring Costs			
Monitoring Cost	\$	Cost	Frequency
System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost
25-100	1190.6	1063	\$ 236,112
101-500	4748.0	3824	\$ 949,908
501-1000	3550.4	2518	\$ 710,076
1001-3,300	6363.1	3743	\$ 1,272,020
3,301-10,000	4,338.6	1902	\$ 667,124
10,001-50,000	3888.3	897	\$ 777,960
50,001-100,000	983.1	113	\$ 198,320
Total	100,001-1,000,000	457.6	\$ 91,520

System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	1190.6	1063	\$ 236,112	\$ 224	VVS	5938.6	4987	\$ 1,187,720	\$ 238
101-500	4748.0	3824	\$ 949,908	\$ 242	VVS	5913.5	6261	\$ 1,982,696	\$ 317
501-1000	3550.4	2518	\$ 710,076	\$ 262	S	4338.6	1802	\$ 987,312	\$ 458
1001-3,300	6363.1	3743	\$ 1,272,020	\$ 340	M	4871.4	1110	\$ 974,280	\$ 878
3,301-10,000	4,338.6	1902	\$ 667,124	\$ 458	L	457.6	52	\$ 91,520	\$ 1,780

Per System Costs			
System Size	O&M Cost	Annual Cap Cost	Cap Cost
25-100	\$ 340,909	\$ 400,672	\$ 4,244,725
101-500	\$ 2,733,550	\$ 3,570,384	\$ 37,824,695
501-1000	\$ 413,320	\$ 680,727	\$ 6,999,754
1001-3,300	\$ 1,158,879	\$ 1,677,795	\$ 17,774,588
3,301-10,000	\$ 409,208	\$ 672,407	\$ 7,123,497
10,001-50,000	\$ 342,952	\$ 619,573	\$ 6,563,787
50,001-100,000	\$ 100,630	\$ 174,759	\$ 1,851,400
100,001-1,000,000	\$ 123,853	\$ 208,026	\$ 2,182,844
Total	\$ 5,623,401	\$ 7,982,346	\$ 91,520
			\$ 5,103,528

Household Costs HH Consumption (gal):			
System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Average Daily Flow (MGD)
25-100	\$ 340,909	\$ 400,672	\$ 17,454
101-500	\$ 2,733,550	\$ 3,570,384	\$ 103,936
501-1000	\$ 413,320	\$ 680,727	\$ 79
1001-3,300	\$ 1,158,879	\$ 1,677,795	\$ 141
3,301-10,000	\$ 409,208	\$ 672,407	\$ 37
10,001-50,000	\$ 342,952	\$ 619,573	\$ 23
50,001-100,000	\$ 100,630	\$ 174,759	\$ 6
100,001-1,000,000	\$ 123,853	\$ 208,026	\$ 3
Total	\$ 100,001-1,000,000	\$ 123,853	\$ 551
			\$ 1,055,278

Household Costs HH Consumption (gal):			
System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Average Daily Flow (MGD)
25-100	\$ 340,909	\$ 400,672	\$ 17,454
101-500	\$ 2,733,550	\$ 3,570,384	\$ 103,936
501-1000	\$ 413,320	\$ 680,727	\$ 15,786
1001-3,300	\$ 1,158,879	\$ 1,677,795	\$ 28,293
3,301-10,000	\$ 409,208	\$ 672,407	\$ 7,301
10,001-50,000	\$ 342,952	\$ 619,573	\$ 4,684
50,001-100,000	\$ 100,630	\$ 174,759	\$ 1,184
100,001-1,000,000	\$ 123,853	\$ 208,026	\$ 551
Total	\$ 100,001-1,000,000	\$ 123,853	\$ 6,38

Results (2000 MCL)

PRIVATE

Monitoring Costs

Cost \$ 50 Frequency 4

System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	13316.8	11890	\$ 2,663,360	\$ 234	VVS	24574.6	21194.0	\$ 4,914,928	\$ 232
101-500	11257.8	9304	\$ 2,251,568	\$ 242	VS	4581.2	2858.0	\$ 912,240	\$ 309
501-1000	2256.0	1600	\$ 451,200	\$ 282	S	943.9	414.0	\$ 188,784	\$ 458
1001-3,300	2305.2	1356	\$ 461,040	\$ 340	M	1048.4	240.0	\$ 209,280	\$ 872
3,301-10,000	943.9	414	\$ 188,784	\$ 456	L	114.4	13.0	\$ 22,880	\$ 1,760
10,001-50,000	846.3	217	\$ 169,260	\$ 780					
50,001-100,000	200.1	23	\$ 40,020	\$ 1,740					
100,001-1,000,000	114.4	13	\$ 22,880	\$ 1,780					
Total									

Per System Costs

System Size	O&M Cost	Annual Cap Cost	Total Annual Monitoring Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total
25-100	\$ 3,574,471	\$ 3,889,745	\$ 41,313,954	\$ 10,137,576	VVS	\$ 8,913,686	\$ 10,582,503	\$ 112,111,188	\$ 4,914,928	\$ 24,411,117
101-500	\$ 5,339,215	\$ 6,682,758	\$ 70,787,235	\$ 2,251,568	VS	\$ 572,828	\$ 861,626	\$ 9,128,075	\$ 912,240	\$ 2,346,693
501-1000	\$ 222,110	\$ 352,147	\$ 3,730,655	\$ 451,200	S	\$ 75,533	\$ 124,658	\$ 1,320,653	\$ 188,784	\$ 388,970
1001-3,300	\$ 350,718	\$ 509,478	\$ 5,397,420	\$ 461,040	M	\$ 83,079	\$ 150,082	\$ 1,589,758	\$ 209,280	\$ 442,420
3,301-10,000	\$ 75,533	\$ 124,658	\$ 1,320,653	\$ 188,784	L	\$ 28,805	\$ 49,855	\$ 528,187	\$ 22,880	\$ 102,540
10,001-50,000	\$ 65,468	\$ 118,152	\$ 1,262,284	\$ 188,280	Total	\$ 353,1600	\$ 6,674,930	\$ 11,768,704	\$ 124,677,822	\$ 6,248,112
50,001-100,000	\$ 17,560	\$ 30,810	\$ 327,464	\$ 40,020		\$ 88,520				
100,001-1,000,000	\$ 29,805	\$ 49,855	\$ 528,187	\$ 22,880		\$ 102,540				
Total	\$ 9,814,930	\$ 11,768,704	\$ 124,677,822	\$ 6,248,112						

Household Costs HH Consumption (gal):

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Cost per System
25-100	\$ 3,574,471	\$ 3,899,745	\$ 678	1	\$ 195,232	072	\$ 8,900	VVS	\$ 8,913,686	\$ 10,582,503
101-500	\$ 5,339,215	\$ 6,682,758	\$ 1,232	1	\$ 248,437	1,018	\$ 12,048	VS	\$ 572,828	\$ 861,626
501-1000	\$ 222,110	\$ 352,147	50	5	\$ 10,031	36	\$ 18,428	S	\$ 75,533	\$ 124,658
1001-3,300	\$ 350,718	\$ 509,478	51	5	\$ 10,250	30	\$ 28,974	M	\$ 83,079	\$ 150,082
3,301-10,000	\$ 75,533	\$ 124,658	8	1	\$ 1,589	3	\$ 57,897	L	\$ 29,805	\$ 49,855
10,001-50,000	\$ 65,468	\$ 118,152	5	1	\$ 1,020	1	\$ 142,042			
50,001-100,000	\$ 17,560	\$ 30,810	1	1	\$ 241	0	\$ 351,828			
100,001-1,000,000	\$ 29,805	\$ 49,855	1	1	\$ 138	0	\$ 1,019,074			
Total										

Per System Costs

System Size	O&M Cost	Annual Cap Cost	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	Affected Systems	HH Incremental Cost
25-100	\$ 3,574,471	\$ 3,899,745	\$ 185,232	00052	\$ 672	\$ 386,73	VVS	\$ 8,913,686	\$ 10,582,503	\$ 441,686	0,0140	\$ 1,886,9
101-500	\$ 5,339,215	\$ 6,682,758	\$ 246,437	0,0216	\$ 1,018	\$ 126,95	VS	\$ 572,828	\$ 861,626	\$ 20,281	0,1274	\$ 65,7
501-1000	\$ 222,110	\$ 352,147	\$ 10,031	0,0726	\$ 36	\$ 51,47	S	\$ 75,533	\$ 124,658	\$ 1,589	0,6543	\$ 3,5
1001-3,300	\$ 350,718	\$ 509,478	10,250	0,1922	\$ 30	\$ 34,18	M	\$ 83,079	\$ 150,082	\$ 1,261	1,3474	\$ 1,4
3,301-10,000	\$ 75,533	\$ 124,658	51	0,8543	\$ 3	\$ 351,828	L	\$ 29,805	\$ 49,855	\$ 138	36,0777	\$ 0,1
10,001-50,000	\$ 65,468	\$ 118,152	8	1,020	\$ 2,7355	1	\$ 11,61					
50,001-100,000	\$ 17,560	\$ 30,810	1	241	\$ 9,1202	0	\$ 8,77					
100,001-1,000,000	\$ 29,805	\$ 49,855	1	138	\$ 36,0777	0	\$ 6,42					
Total												

PUBLIC

Monitoring Costs

Cost 50 Frequency

System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	1190	1083	\$ 238,112	\$	224	V/S	5898	\$ 4987	\$ 1,187,720
101-500	4748	3824	\$ 949,808	\$	242	V/S	6261	\$ 1,962,988	\$ 317
501-1000	3550	2518	\$ 710,076	\$	282	S	4396	\$ 1802	\$ 667,312
1001-3,300	6363	3143	\$ 1,272,620	\$	340	M	4871	\$ 1110	\$ 974,260
3,301-10,000	4336	1802	\$ 867,312	\$	456	L	4577	\$ 52	\$ 91,520
10,001-50,000	3886	897	\$ 777,840	\$	780				\$ 1,760
50,001-100,000	983	113	\$ 196,620	\$					\$ 1,740
100,001-1,000,000	457	52	\$ 91,520	\$					\$ 1,760
Totals									

System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	Cap Cost	Annual Monitoring Cost	Total
25-100	\$ 117,253	\$ 148,676	\$ 1,585,672	\$	238,112	\$ 505,041	V/S	\$ 1,137,081	\$ 1,879,902	\$ 19,815,704	\$ 4,204,703
101-500	\$ 1,019,826	\$ 1,730,225	\$ 18,350,032	\$	949,808	\$ 3,688,661	V/S	\$ 464,417	\$ 678,798	\$ 7,201,786	\$ 3,126,910
501-1000	\$ 122,044	\$ 191,886	\$ 2,032,863	\$	710,076	\$ 10,024,008	S	\$ 10,483	\$ 176,532	\$ 1,024,184	\$ 667,312
1001-3,300	\$ 342,372	\$ 487,912	\$ 5,168,943	\$	1,272,620	\$ 2,102,904	M	\$ 72,070	\$ 130,118	\$ 1,378,475	\$ 1,151,328
3,301-10,000	\$ 107,483	\$ 176,532	\$ 1,870,184	\$	867,312	\$ 1,151,328	L	\$ 20,378	\$ 33,859	\$ 356,701	\$ 974,260
10,001-50,000	\$ 55,509	\$ 101,359	\$ 1,074,803	\$	777,840	\$ 934,529	Total	\$ 1,801,429	\$ 2,900,208	\$ 30,724,850	\$ 145,757
50,001-100,000	\$ 18,560	\$ 28,759	\$ 304,672	\$	196,620	\$ 241,939					\$ 1,035,528
100,001-1,000,000	\$ 20,378	\$ 33,859	\$ 358,701	\$	91,520	\$ 145,757					\$ 3,605,165
Total:	\$ 1,801,429	\$ 2,800,208	\$ 30,724,850	\$	5,103,528	\$ 2,905,165					

Per System Costs

System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sites Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System
25-100	\$ 117,253	\$ 149,676	33	\$ 6,687	30	\$ 9,153	V/S	\$ 1,137,081	\$ 1,679,902	308	\$ 61,168	285,1	\$ 12,050
101-500	\$ 1,019,826	\$ 1,730,225	272	\$ 54,491	225	\$ 12,455	V/S	\$ 464,417	\$ 678,798	64	\$ 12,880	40,7	\$ 26,449
501-1000	\$ 122,044	\$ 191,886	23	\$ 4,613	18	\$ 18,474	S	\$ 10,483	\$ 176,532	10	\$ 1,917	4,2	\$ 4,606
1001-3,300	\$ 342,372	\$ 487,912	41	\$ 8,267	24	\$ 34,487	M	\$ 72,070	\$ 130,118	6	\$ 966	1,1	\$ 183,964
3,301-10,000	\$ 107,483	\$ 176,532	10	\$ 1,917	4	\$ 68,008	L	\$ 20,378	\$ 33,859	0	\$ 91	0,1	\$ 1,050,150
10,001-50,000	\$ 55,509	\$ 101,359	4	\$ 774	1	\$ 158,928							
50,001-100,000	\$ 18,560	\$ 28,759	1	\$ 196	0	\$ 404,852							
100,001-1,000,000	\$ 20,378	\$ 33,859	0	\$ 91	0	\$ 1,050,150							

Household Costs HH Consumption (gal):

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost	System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	Average Daily Flow (MGD)	No. of Sys. Above Reg. Limit	HH Incremental Cost
25-100	\$ 117,253	\$ 149,676	\$ 6,687	0.0071	30	\$ 292,54	V/S	\$ 1,137,081	\$ 1,679,902	\$ 61,168	0.0314	265,1	\$ 87,38
101-500	\$ 1,019,828	\$ 1,730,225	\$ 54,491	0.0348	225	\$ 81,77	V/S	\$ 464,417	\$ 678,798	\$ 12,880	0.01878	40,7	\$ 34,46
501-1000	\$ 122,044	\$ 191,886	\$ 4,613	0.0947	16	\$ 46,76	S	\$ 10,483	\$ 176,532	\$ 1,917	0.0252	4,2	\$ 4,606
1001-3,300	\$ 342,372	\$ 487,912	\$ 8,267	0.2505	24	\$ 31,31	M	\$ 72,070	\$ 130,118	\$ 966	0.0158	1,1	\$ 10,46
3,301-10,000	\$ 107,483	\$ 176,532	\$ 1,917	0.6252	4	\$ 18,74	L	\$ 20,378	\$ 33,859	\$ 91	0.15002	0,1	\$ 6,35
10,001-50,000	\$ 55,509	\$ 101,359	\$ 774	3.2048	1	\$ 11.28							
50,001-100,000	\$ 18,560	\$ 28,759	\$ 196	11.1710	0	\$ 8.24							
100,001-1,000,000	\$ 20,378	\$ 33,859	\$ 91	37,5902	0	\$ 6.35							

Results (MCL 4000)

Private

Monitoring Costs

Cost 50 Frequency 4

System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System	System Size	No. of Sites	No. of Systems	Total Annual Monitoring Cost	Cost per System
25-100	13316.6	11890	\$ 2,683,380	\$ 224	VVS	24574.6	21194.0	\$ 4,914,926	\$ 232
101-500	11267.8	9304	\$ 2,251,588	\$ 242	VVS	4581.2	2656.0	\$ 912,420	\$ 308
501-1000	2256.0	1600	\$ 451,200	\$ 282	S	843.9	414.0	\$ 188,784	\$ 458
1001-3,300	2305.2	1356	\$ 481,040	\$ 340	M	1048.4	240.0	\$ 209,280	\$ 872
3,301-10,000	943.9	414	\$ 188,784	\$ 458	L	114.4	13.0	\$ 22,880	\$ 1,760
10,001-50,000	846.3	217	\$ 188,260	\$ 760					
50,001-100,000	200.1	23	\$ 40,020	\$ 1,740					
100,001-1,000,000	114.4	13	\$ 22,880	\$ 1,760					
Total									

Totals

System Size	O&M Cost	Annual Cap Cost	Total Annual Monitoring Cost	System Size	O&M Cost	Annual Cap Cost	System Size	O&M Cost	Annual Cap Cost	Total
25-100	\$ 1,240,495	\$ 1,457,658	\$ 2,683,380	VVS	\$ 5,361,513	\$ 4,883,372	\$ 49,403,826	\$ 4,883,372	\$ 49,403,826	\$ 12,817,161
101-500	\$ 1,998,356	\$ 3,205,714	\$ 33,961,375	VVS	\$ 7,455,338	\$ 249,736	\$ 2,845,705	\$ 912,240	\$ 1,350,922	
501-1000	\$ 65,485	\$ 102,004	\$ 1,080,634	S	\$ 451,200	\$ 618,689	\$ 19,839	\$ 32,728	\$ 348,702	\$ 241,348
1001-3,300	\$ 103,482	\$ 147,731	\$ 1,565,069	S	\$ 481,040	\$ 712,233	\$ 13,501	\$ 24,594	\$ 280,546	\$ 247,374
3,301-10,000	\$ 19,839	\$ 32,728	\$ 346,702	S	\$ 188,784	\$ 241,349	\$ 4,900	\$ 8,194	\$ 86,804	\$ 36,974
10,001-50,000	\$ 10,605	\$ 19,506	\$ 208,648	S	\$ 169,260	\$ 199,372	\$ 1,501	\$ 24,594	\$ 209,280	
50,001-100,000	\$ 2,695	\$ 5,088	\$ 53,698	S	\$ 40,020	\$ 48,003	\$ 4,900	\$ 6,194	\$ 22,880	\$ 0.0
100,001-1,000,000	\$ 4,900	\$ 8,194	\$ 86,804	S	\$ 22,880	\$ 35,974				\$ 1,014,135
Total										

Household Costs HH Consumption (gal): 83,000

System Size	O&M Cost	Annual Cap Cost	Monitoring Cost for Systems Above Reg. Limit	No. of Sys. Above Reg. Limit	Cost per System	System Size	O&M Cost	Annual Cap Cost	No. of Sys. Above Reg. Limit	Monitoring Cost for Systems Above Reg. Limit	Affected Systems	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	Affected Systems	Average Daily Flow (MGD)	Monitoring Cost for Systems Above Reg. Limit	Affected Systems	
25-100	\$ 1,240,495	\$ 1,457,658	\$ 375	\$ 74,904	\$ 334	VVS	\$ 6,283	\$ 643,372	\$ 1,021	\$ 204,108	668,3	\$ 3,538						
101-500	\$ 1,998,356	\$ 3,205,714	\$ 646	\$ 129,202	\$ 534	VVS	\$ 9,989	\$ 168,946	\$ 30	\$ 6,926	182,6	\$ 22,112						
501-1000	\$ 65,485	\$ 102,004	\$ 15	\$ 2,931	\$ 10	S	\$ 16,396	\$ 19,839	\$ 5	\$ 32,728	2,5	\$ 5,985						
1001-3,300	\$ 103,482	\$ 147,731	\$ 15	\$ 2,995	\$ 9	S	\$ 28,857	\$ 13,501	\$ 5	\$ 24,594	1,5	\$ 208						
3,301-10,000	\$ 19,839	\$ 32,728	\$ 2	\$ 417	\$ 1	S	\$ 57,985	\$ 4,900	\$ 3	\$ 6,194	0,3	\$ 23						
10,001-50,000	\$ 10,605	\$ 19,506	\$ 1	\$ 168	\$ 0	S	\$ 140,255											
50,001-100,000	\$ 2,695	\$ 5,088	\$ 0	\$ 40	\$ 0	S	\$ 350,902											
100,001-1,000,000	\$ 4,900	\$ 8,194	\$ 0	\$ 23	\$ 0	S	\$ 1,014,135											
Total																		