

APPENDICES C. 2

List of Persons called on

MUNICIPALITY	NAME	POSITION	DATE
PROVINCE OF			
CAVITE			
Cavite City	Timoteo O. Encarnation, Jr.	Mayor	June 10
	Augusto P. Trias	City Development Coordinator	June 10/18
Bacoor	Pacifico R. Miranda	Municipal Development Coordinator	June 11
Imus	Erineo Maliksi	Mayor	June 11
	Edmer G. Para	Project Evaluation Officer, Office of the Municipal Planning and Development Coordinator	
Kawit	Atty. Federico A Poblete	Mayor	June 11
Noveleta	Virgilio L. Saqui	Mayor	June 18
Rosario	Reginaldo Q. Broas	Municipal Planning and Development Coordinator	June 10/18
PROVINCE OF			
RIZAL			
Antipolo	Ignacio E. Asuncion	Municipal Planning and Development Coordinator	June 13/17
Cainta	Benjamin V. Felix	Mayor	June 13
	Fernando F. Flores	Municipal Planning and Development Coordinator	June 17
	Mario B. Cruz	Economist, Office of the Municipal Planning Development Coordinator	June 13/17
Montalban	Angelito C. Manuel	Mayor	June 17
(Rodriguez)	Ernesto H. Villanueva, Sr.	Vice mayor	June 13
Montalban	(Miss) Julieta A. Cruz	Municipal Planning and Development Coordinator	June 17
(Rodriguez)	Teodorico C. Alejandro	Acting Municipal Eng'r	June 17
San Mateo	Rogelio J. San Miguel	Municipal Eng'r	June 13
	Noly Cristobal	Building Inspector	June 17
Taytay	Rodolfo G. Rico	Municipal Planning and Development Coordinator	June 13/17

TH/mtc/appen-b.wk1

APPENDICES C. 3

HRDD SCHEDULE OF TRAINING/SEMINAR FOR 1990 (cont'd)

OPERATIONS AREA TRAINING/SEMINAR	DATE	NUMBER OF PARTICIPANTS	TRAINING HOURS	OFFICE
1. PLANT ELECTRICAL CIRCUITS AND MOTOR CONTROL	Mar. 19 - 30	23	40	Electrician - WDND
	Apr. 15 - 27	17	40	Pump Operators - WDND
	Jun. 25 - Jul. 6	15	40	WDND
	Aug. 6 - 17	21	40	WDND
	Oct. 2 - 13	21	40	WDND
	Dec. 3 - 14	14	40	WDND
2. WATER PURIFICATION	May. 2 - 11	19	64	Tech. Personnel WSTD
3. WATER TREATMENT PLANT OPERATION & MAINTENANCE	Jun. 4 - 15	24	72	Tech. Personnel WSTD
4. INDUSTRIAL SAFETY	Nov. 5 - 9	Operations Personnel (16)	40	
5. FIRST AID	Dec. 3 - 7	Operations Personnel (24)	40	
6. WATER DISTRIBUTION MAINTENANCE PRACTICES	May 7 - 11	Foremen & Pipe Fitters (14)	40	

HRDD SCHEDULE OF TRAINING/SEMINAR FOR 1990 (cont'd)

CUSTOMER SERVICE AREA			
TRAINING/SEMINAR	DATE	NUMBER OF PARTICIPANTS	TRAINING HOURS
1. EFFECTIVE CUSTOMER RELATIVES	Feb. 7 - 8	Bill Collectors (35)	16
	Apr. 30 - May 4	Bill Collectors (18)	16
	May 22 - 25	Bill Collectors (25)	16
	Jun. 5 - 8	Bill Collectors (42)	16
	Jul. 10 - 13	29	16
	Aug. 14 - 17	18	16
	Aug. 18 - 31	18	16
	Sep. 4 - 7	28	16
	Sep. 18 - 21	26	16
	Oct. 8 - 12	Customer Service Personnel (20)	40
Nov. 5 - 9	Customer Service Personnel (15)	40	
2. WATER DISTRIBUTION PREVENTIVE MAINTENANCE PRACTICES	Apr. 23 - 27	Engineers Service Investigators (15)	40
3. WATER DISTRIBUTION MAINTENANCE PRACTICES	Aug. 20 - 24	Service Center Personnel (10)	40

BRDD SCHEDULE OF TRAINING/SEMINAR FOR 1990 (cont'd)

CONSTRUCTION MANAGEMENT AREA				
TRAINING/SEMINAR	DATE	NUMBER OF PARTICIPANTS	TRAINING HOURS	OFFICE
4. CONSTRUCTION PROJECT INSPECTION	Feb. 12 - 22	Engineers (18)	68	NWSRP II
	May 7 - 11	Project Inspectors/ Engineers (20)	40	NWSRP II
	Sep. 17 - 27	Technical Personnel (24)	40	NWSRP II
5. CONTRACT ADMINISTRATION	Jul. 30 - Aug. 3	Project Personnel (24)	40	NWSRP II
6. ABRASIVE PIPE CUTTING	Sep. 10 - 11	Project Personnel (16)	16	NWSRP II
	Dec. 17 - 18	Team Leader (10)	16	NWSRP II
7. DEFENSIVE DRIVING	May 21 - 25	Project Engineers Authorized to Drive (21)	40	Different Projects
8. VALVES & HYDRANTS INSTALLATION, REPAIR AND MAINTENANCE	Aug. 12 - 14	Project Personnel (16)	24	NWSRP II
	Dec. 26 - 28	Team Leader (10)	24	NWSRP II
9. PERT/CPM	Oct. 1 - 8	Engineers (17)	40	NWSOP
10. PROJECT MONITORING AND EVALUATION	Dec. 3 - 7	Project Engineers (17)	40	Different Projects

APPENDIX D

WATER DEMAND PROJECTION
FOR BP799 AREA
(UPDATED RPWSIP PROJECTION)

LIST OF TABLES

	PAGE
APPENDIX D WATER DEMAND PROJECTION FOR BP799 AREA	
1. PROJECTED WATER DEMAND IN BP799 AREA	D-1
2. GROWTH RATE MODIFICATION FOR BP799 AREA	D-2
3. PROJECTED SERVED POPULATION FOR BP799 AREA	D-3
4. PROJECTED DOMESTIC CONSUMPTION BY SERVED POPULATION IN BP799 AREA	D-4
5. PROJECTED DOMESTIC CONSUMPTION BY UNSERVED POPULATION IN BP799 AREA	D-5
6. PROJECTED COMMERCIAL CONSUMPTION IN BP799 AREA	D-6
7. PROJECTED INDUSTRIAL CONSUMPTION IN BP799 AREA	D-7

TABLE PROJECTED WATER DEMAND IN BP799 AREA

MUNICIPALITY	DEMAND TYPE	SERVED WATER DEMAND (M3/DAY)				UNSERVED WATER DEMAND (M3/DAY)				TOTAL WATER DEMAND (M3/DAY)			
		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
ANGONO	DOMESTIC	3,115	5,138	7,927	11,583	1,156	1,124	1,022	848	4,271	6,262	8,949	12,432
	COMMERCIAL	623	1,028	1,585	2,317	0	0	0	0	623	1,028	1,585	2,317
	INDUSTRIAL	196	555	1,284	2,502	925	1,295	1,570	1,668	1,121	1,850	2,854	4,170
	LOSSES	590	1,008	1,620	2,460	0	0	0	0	590	1,008	1,620	2,460
	TOTAL	4,524	7,728	12,416	18,862	2,081	2,419	2,591	2,516	6,606	10,147	15,008	21,379
BARAS	DOMESTIC	127	189	401	699	558	610	629	630	685	799	1,030	1,329
	COMMERCIAL	25	38	80	140	0	0	0	0	25	38	80	140
	INDUSTRIAL	8	20	65	151	38	48	79	101	46	68	144	252
	LOSSES	24	37	82	148	0	0	0	0	24	37	82	148
	TOTAL	184	285	628	1,138	596	658	708	731	780	943	1,336	1,869
BINANGONAN	DOMESTIC	7,008	10,902	15,915	22,135	3,109	2,873	2,520	2,063	10,117	13,774	18,435	24,198
	COMMERCIAL	1,402	2,180	3,183	4,427	0	0	0	0	1,402	2,180	3,183	4,427
	INDUSTRIAL	442	1,177	2,578	4,781	2,081	2,747	3,151	3,187	2,523	3,925	5,729	7,969
	LOSSES	1,328	2,139	3,251	4,701	0	0	0	0	1,328	2,139	3,251	4,701
	TOTAL	10,179	16,398	24,927	36,045	5,190	5,620	5,672	5,251	15,369	22,018	30,599	41,295
CARDONA	DOMESTIC	490	631	841	1,095	966	1,005	1,021	1,020	1,456	1,636	1,862	2,115
	COMMERCIAL	98	126	168	219	0	0	0	0	98	126	168	219
	INDUSTRIAL	31	68	136	237	146	159	167	158	176	227	303	394
	LOSSES	93	124	172	233	0	0	0	0	93	124	172	233
	TOTAL	712	949	1,317	1,784	1,112	1,164	1,188	1,177	1,823	2,113	2,505	2,961
JARA-JARA	DOMESTIC	73	269	568	988	542	542	526	490	615	811	1,093	1,478
	COMMERCIAL	15	54	114	198	0	0	0	0	15	54	114	198
	INDUSTRIAL	5	29	92	213	22	68	112	142	26	97	204	356
	LOSSES	14	53	116	210	0	0	0	0	14	53	116	210
	TOTAL	106	405	890	1,608	564	610	638	633	670	1,015	1,527	2,241
HORONG	DOMESTIC	955	1,253	1,768	2,447	861	900	940	966	1,816	2,153	2,708	3,413
	COMMERCIAL	191	251	354	489	0	0	0	0	191	251	354	489
	INDUSTRIAL	60	135	286	529	284	316	350	352	344	451	636	881
	LOSSES	181	246	361	520	0	0	0	0	181	246	361	520
	TOTAL	1,387	1,885	2,769	3,985	1,144	1,216	1,290	1,319	2,531	3,101	4,059	5,304
PILILLA	DOMESTIC	703	1,161	2,161	3,067	993	1,010	928	882	1,696	2,171	3,089	3,949
	COMMERCIAL	141	232	432	613	0	0	0	0	141	232	432	613
	INDUSTRIAL	44	125	350	662	209	292	428	442	253	418	778	1,104
	LOSSES	133	228	441	651	0	0	0	0	133	228	441	651
	TOTAL	1,021	1,746	3,384	4,993	1,202	1,303	1,356	1,324	2,222	3,049	4,740	6,317
TANAY	DOMESTIC	2,170	3,924	5,882	8,385	1,656	1,570	1,497	1,366	3,827	5,494	7,379	9,751
	COMMERCIAL	434	785	1,176	1,677	0	0	0	0	434	785	1,176	1,677
	INDUSTRIAL	137	424	953	1,811	645	989	1,165	1,208	781	1,413	2,117	3,019
	LOSSES	411	770	1,202	1,781	0	0	0	0	411	770	1,202	1,781
	TOTAL	3,152	5,903	9,212	13,655	2,301	2,559	2,662	2,573	5,453	8,461	11,874	16,228
TERESA	DOMESTIC	480	792	1,143	1,581	575	539	504	458	1,055	1,332	1,647	2,040
	COMMERCIAL	96	158	229	316	0	0	0	0	96	158	229	316
	INDUSTRIAL	30	86	185	342	143	200	226	228	173	285	412	569
	LOSSES	91	155	234	338	0	0	0	0	91	155	234	336
	TOTAL	697	1,192	1,791	2,575	717	739	730	686	1,415	1,931	2,521	3,261
TOTAL	DOMESTIC	15,121	24,259	36,605	51,981	10,417	10,173	9,587	8,724	25,537	34,433	46,192	60,705
	COMMERCIAL	3,024	4,852	7,321	10,396	0	0	0	0	3,024	4,852	7,321	10,396
	INDUSTRIAL	953	2,620	5,930	11,228	4,491	6,113	7,248	7,485	5,443	8,733	13,178	18,713
	LOSSES	2,865	4,760	7,478	11,041	0	0	0	0	2,865	4,760	7,478	11,041
	TOTAL	21,962	36,491	57,334	84,645	14,908	16,287	16,835	16,209	36,870	52,778	74,169	100,855

FILE:BP799DRK

TABLE GROWTH RATE MODIFICATION FOR BF799 AREA

MUNICIPALITY	POPULATION TYPE	POPULATION		PROPORTION		GROWTH RATE				
		1980 (CENSUS)	1990 (CENSUS)	1980	1990	RPNISIP			MODIFIED	
						1980- 1990	1990- 2000	2000- 2010	1990- 2000	2000- 2010
ARGONO	URBAN	27,136	46,014	100.00	100.00	5.42	6.00	4.54	4.98	4.54
	RURAL	0	0	0.00	0.00	ERR	-	-	-	-
	TOTAL	27,136	46,014	100.00	100.00	5.42				
BARAS	URBAN	2,403	3,204	21.02	18.98	2.92	2.50	3.50	3.21	3.50
	RURAL	9,031	13,676	78.98	81.02	4.24	2.55	2.55	3.39	2.55
	TOTAL	11,434	16,880	100.00	100.00	3.97				
BINANGONAN	URBAN	68,188	110,346	82.45	86.50	4.93	4.31	4.31	4.62	4.31
	RURAL	14,514	17,215	17.55	13.50	1.72	2.00	2.00	1.86	2.00
	TOTAL	82,702	127,561	100.00	100.00	4.43				
CARDORA	URBAN	5,117	5,943	20.45	18.03	1.51	3.80	3.80	2.65	3.80
	RURAL	19,907	27,019	79.55	81.97	3.10	2.55	2.55	2.83	2.55
	TOTAL	25,024	32,962	100.00	100.00	2.79				
JARA-JARA	URBAN	3,818	4,693	31.30	28.76	2.08	3.94	3.94	2.94	3.80
	RURAL	8,381	11,625	68.70	71.24	3.33	2.20	2.00	2.66	2.00
	TOTAL	12,199	16,318	100.00	100.00	2.95				
MORONG	URBAN	10,368	11,505	40.84	35.77	1.05	3.20	3.80	2.42	3.80
	RURAL	15,019	20,660	59.16	64.23	3.24	2.00	2.00	2.62	2.00
	TOTAL	25,387	32,165	100.00	100.00	2.39				
PILILLA	URBAN	10,954	14,645	46.19	45.30	3.09	4.00	3.80	3.44	3.80
	RURAL	12,762	17,926	53.81	54.70	3.46	2.00	2.55	3.00	2.55
	TOTAL	23,716	32,571	100.00	100.00	3.29				
TABAY	URBAN	27,000	38,456	65.37	65.84	3.60	3.80	3.80	3.70	3.80
	RURAL	14,303	19,954	34.63	34.16	3.39	2.55	2.55	2.97	2.55
	TOTAL	41,303	58,410	100.00	100.00	3.53				
TERESA	URBAN	7,685	9,367	50.91	45.37	2.00	3.80	3.80	2.90	3.80
	RURAL	7,410	11,278	49.09	54.63	4.29	2.00	2.00	3.14	2.00
	TOTAL	15,095	20,645	100.00	100.00	3.18				
TOTAL	URBAN	162,670	244,373	61.62	63.68	4.15				
	RURAL	101,326	139,353	38.38	36.32	3.24				
	TOTAL	263,996	383,726	100.00	100.00	3.81				

FILE: BF799GR

TABLE PROJECTED SERVED POPULATION FOR BP799 AREA

MUNICIPALITY	POPULATION TYPE	1990 (CENSUS)			PROJECTED POPULATION			GROWTH RATE		SERVICE RATIO FOR URBAN (%)			SERVED POPULATION			
		1990	1995	2000	1995	2000	2010	1990-2000	2000-2010	1995	2000	2005	1995	2000	2005	2010
ANGONO	URBAN	46,014	55,062	64,219	72,979	80,788	3.39	2.32	40	50	60	22,025	32,110	43,787	56,552	0
	RURAL	0	0	0	0	0	0.00	0.00	-	-	-	0	0	0	0	0
	TOTAL	46,014	55,062	64,219	72,979	80,788	3.39	2.32	-	-	-	22,025	32,110	43,787	56,552	0
BARAS	URBAN	3,204	3,591	3,942	4,431	4,875	2.09	2.15	35	30	50	898	1,183	2,215	3,412	0
	RURAL	13,676	15,450	17,121	18,377	19,307	2.27	1.21	-	-	-	0	0	0	0	0
	TOTAL	16,880	19,051	21,063	22,808	24,182	2.24	1.39	-	-	-	898	1,183	2,215	3,412	0
BIMANGONAN	URBAN	110,266	123,882	136,262	146,513	154,381	2.13	1.26	40	50	60	49,553	63,131	87,908	108,087	0
	RURAL	17,215	16,909	16,271	15,642	14,736	-0.56	-0.99	-	-	-	0	0	0	0	0
	TOTAL	127,561	140,791	152,533	162,155	169,117	1.80	1.04	-	-	-	49,553	63,131	87,908	108,087	0
CARDONA	URBAN	5,943	6,300	6,595	7,147	7,639	1.02	1.51	55	60	65	3,465	3,945	4,645	5,348	0
	RURAL	27,019	28,894	30,420	31,123	31,313	1.19	0.29	-	-	-	0	0	0	0	0
	TOTAL	32,962	35,194	36,995	38,270	38,952	1.16	0.52	-	-	-	3,465	3,945	4,645	5,348	0
JARA-JARA	URBAN	4,833	5,173	5,603	6,274	6,888	1.79	2.09	10	30	50	517	1,681	3,137	4,821	0
	RURAL	11,825	12,641	13,506	13,857	13,938	1.51	0.32	-	-	-	0	0	0	0	0
	TOTAL	16,318	17,814	19,109	20,131	20,826	1.59	0.86	-	-	-	517	1,681	3,137	4,821	0
HORONG	URBAN	13,505	12,273	13,054	15,021	17,067	1.27	2.72	55	50	65	6,750	7,832	9,763	11,947	0
	RURAL	20,660	22,255	24,303	25,201	26,237	1.47	0.94	-	-	-	0	0	0	0	0
	TOTAL	32,165	34,528	36,957	40,222	43,304	1.40	1.60	-	-	-	6,750	7,832	9,763	11,947	0
PILILLA	URBAN	14,845	16,561	18,135	19,891	21,387	2.02	1.66	30	40	60	4,868	7,254	11,935	14,971	0
	RURAL	17,926	19,576	20,984	21,665	21,925	1.39	0.44	-	-	-	0	0	0	0	0
	TOTAL	32,771	36,137	39,119	41,556	43,312	1.79	1.02	-	-	-	4,868	7,254	11,935	14,971	0
TANAY	URBAN	38,456	43,848	49,049	54,148	58,485	2.46	1.77	35	50	60	15,347	24,525	32,489	40,939	0
	RURAL	19,954	21,962	23,715	24,641	25,050	1.74	0.55	-	-	-	0	0	0	0	0
	TOTAL	58,410	65,810	72,764	78,789	83,535	2.22	1.39	-	-	-	15,347	24,525	32,489	40,939	0
TERESA	URBAN	9,367	9,696	9,902	10,525	11,030	0.56	1.06	35	50	60	3,394	4,951	6,315	7,721	0
	RURAL	11,278	11,811	12,204	11,885	11,411	0.79	-0.67	-	-	-	0	0	0	0	0
	TOTAL	20,645	21,507	22,106	22,410	22,441	0.69	0.15	-	-	-	3,394	4,951	6,315	7,721	0
TOTAL	URBAN	244,373	276,388	306,741	356,929	382,540	2.30	1.69	39	49	60	106,916	151,611	202,195	253,778	0
	RURAL	139,353	149,508	158,124	162,391	163,917	1.27	0.36	-	-	-	0	0	0	0	0
	TOTAL	383,726	425,896	464,865	499,320	526,457	1.94	1.25	-	-	-	106,916	151,611	202,195	253,778	0

FILE:BP799POP

TABLE PROJECTED DOMESTIC CONSUMPTION BY SERVED POPULATION IN BP799 AREA

MUNICIPALITY	POPULATION TYPE	SERVED POPULATION				PER CAPITA CONSUMPTION (CONNECTED, LPCD)				DOMESTIC CONSUMPTION (M3/DAY)			
		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
ANGORO	URBAN	22,025	32,110	43,787	56,552	141	160	181	205	3,115	5,138	7,927	11,583
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	22,025	32,110	43,787	56,552	141	160	181	205	3,115	5,138	7,927	11,583
BARAS	URBAN	898	1,183	2,215	3,412	141	160	181	205	127	189	401	699
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	898	1,183	2,215	3,412	141	160	181	205	127	189	401	699
BINANGORAN	URBAN	49,553	68,131	87,908	108,067	141	160	181	205	7,008	10,902	15,915	22,135
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	49,553	68,131	87,908	108,067	141	160	181	205	7,008	10,902	15,915	22,135
CARDONA	URBAN	3,465	3,945	4,645	5,348	141	160	181	205	490	631	841	1,095
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	3,465	3,945	4,645	5,348	141	160	181	205	490	631	841	1,095
JARA-JARA	URBAN	517	1,681	3,137	4,821	141	160	181	205	73	269	568	988
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	517	1,681	3,137	4,821	141	160	181	205	73	269	568	988
NORONG	URBAN	6,750	7,832	9,763	11,947	141	160	181	205	955	1,253	1,768	2,447
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	6,750	7,832	9,763	11,947	141	160	181	205	955	1,253	1,768	2,447
PILILLA	URBAN	4,968	7,254	11,935	14,971	141	160	181	205	703	1,161	2,161	3,067
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	4,968	7,254	11,935	14,971	141	160	181	205	703	1,161	2,161	3,067
TANAY	URBAN	15,347	24,525	32,489	40,939	141	160	181	205	2,170	3,924	5,882	8,385
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	15,347	24,525	32,489	40,939	141	160	181	205	2,170	3,924	5,882	8,385
TERESA	URBAN	3,394	4,951	6,315	7,721	141	160	181	205	480	792	1,143	1,581
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	3,394	4,951	6,315	7,721	141	160	181	205	480	792	1,143	1,581
TOTAL	URBAN	106,916	151,611	202,195	253,778	141	160	181	205	15,121	24,259	36,605	51,981
	RURAL	0	0	0	0	141	160	181	205	0	0	0	0
	TOTAL	106,916	151,611	202,195	253,778	141	160	181	205	15,121	24,259	36,605	51,981

TABLE PROJECTED DOMESTIC CONSUMPTION BY UNSERVED POPULATION IN BP799 AREA

MUNICIPALITY	POPULATION TYPE	UNSERVED POPULATION				PER CAPITA CONSUMPTION (UNCONNECTED, LPGD)				DOMESTIC CONSUMPTION (M ³ /DAY)			
		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
ANGONO	URBAN	33,037	32,110	29,192	24,236	35	35	35	35	1,156	1,124	1,022	848
	RURAL	0	0	0	0	30	30	30	30	0	0	0	0
	TOTAL	33,037	32,110	29,192	24,236					1,156	1,124	1,022	848
BARAS	URBAN	2,693	2,759	2,215	1,462	35	35	35	35	94	97	78	51
	RURAL	15,460	17,121	18,377	19,307	30	30	30	30	454	514	551	579
	TOTAL	18,153	19,880	20,593	20,770					558	610	629	630
BINAROGONAN	URBAN	74,329	68,131	58,605	46,314	35	35	35	35	2,602	2,385	2,051	1,621
	RURAL	16,909	16,271	15,642	14,736	30	30	30	30	507	488	469	442
	TOTAL	91,238	84,402	74,247	61,050					3,109	2,873	2,520	2,063
CARDONA	URBAN	2,835	2,630	2,501	2,292	35	35	35	35	99	92	88	80
	RURAL	28,894	30,420	31,123	31,313	30	30	30	30	867	913	934	939
	TOTAL	31,729	33,050	33,625	33,604					966	1,005	1,021	1,020
JARA-JARA	URBAN	4,656	3,922	3,137	2,066	35	35	35	35	163	137	110	72
	RURAL	12,641	13,506	13,857	13,938	30	30	30	30	379	405	416	418
	TOTAL	17,297	17,428	16,994	16,005					542	542	526	490
KORONG	URBAN	5,523	5,222	5,257	5,120	35	35	35	35	193	183	184	179
	RURAL	22,255	23,903	25,201	26,237	30	30	30	30	668	717	756	787
	TOTAL	27,778	29,125	30,459	31,357					861	900	940	966
PILILLA	URBAN	11,593	10,881	7,957	6,416	35	35	35	35	406	381	278	225
	RURAL	19,576	20,984	21,665	21,925	30	30	30	30	587	630	650	658
	TOTAL	31,169	31,865	29,622	28,341					993	1,010	928	882
TANAY	URBAN	28,501	24,525	21,659	17,545	35	35	35	35	998	858	758	614
	RURAL	21,962	23,715	24,641	25,050	30	30	30	30	659	711	739	752
	TOTAL	50,463	48,239	46,300	42,596					1,656	1,570	1,497	1,366
TERESA	URBAN	6,302	4,951	4,210	3,309	35	35	35	35	221	173	147	116
	RURAL	11,811	12,204	11,885	11,411	30	30	30	30	354	366	357	342
	TOTAL	18,113	17,155	16,095	14,720					575	539	504	458
TOTAL	URBAN	169,469	155,130	134,734	108,762	35	35	35	35	5,931	5,430	4,716	3,807
	RURAL	149,508	158,124	162,391	163,917	30	30	30	30	4,485	4,744	4,872	4,918
	TOTAL	318,978	313,254	297,125	272,679					10,417	10,173	9,587	8,724

FILE:BP799DCU

TABLE PROJECTED COMMERCIAL CONSUMPTION IN BP799 AREA

MUNICIPALITY	SERVED POPULATION				PER CAPITA CONSUMPTION (CONNECTED, LPGD)				COMMERCIAL CONSUMPTION (M ³ /DAY)			
	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
ANGORO	22,025	32,110	43,787	56,552	28	32	36	41	623	1,028	1,585	2,317
BARAS	898	1,183	2,215	3,412	28	32	36	41	25	38	80	140
BIRANGONAN	49,553	68,131	87,908	108,067	28	32	36	41	1,402	2,180	3,183	4,427
CARDONA	3,465	3,945	4,645	5,348	28	32	36	41	98	126	168	219
JARA-JARA	517	1,681	3,137	4,821	28	32	36	41	15	54	114	198
MORONG	6,750	7,832	9,763	11,947	28	32	36	41	191	251	354	489
PILILLA	4,968	7,254	11,935	14,971	28	32	36	41	141	232	432	613
TANAY	15,347	24,525	32,489	40,939	28	32	36	41	434	785	1,176	1,677
TERESA	3,394	4,951	6,315	7,721	28	32	36	41	96	158	229	316
TOTAL	106,916	151,611	202,195	253,778	28	32	36	41	3,024	4,852	7,321	10,396

FILE:BP799CMS

TABLE PROJECTED INDUSTRIAL CONSUMPTION IN BPTOS AREA

MUNICIPALITY	SERVED POPULATION		PER CAPITA CONSUMPTION (CORRECTED, LPCD)		WSS SERVICE RATIO (%)		CONNECTED (K3/DAY)		INDUSTRIAL CONSUMPTION PRIVATE (K3/DAY)		TOTAL (K3/DAY)	
	1995	2010	1995	2010	1995	2010	1995	2010	1995	2010	1995	2010
ANGORO	22,025	32,110	51	58	30	45	555	1,284	1,293	1,370	1,650	2,854
BABAS	898	2,215	51	58	30	45	20	65	38	78	68	244
BLANGORAN	49,553	68,131	51	58	30	45	442	2,578	2,081	3,151	2,523	7,959
CARDORA	3,465	3,345	51	58	30	45	68	136	146	167	227	354
JABA-JARA	517	3,137	51	58	30	45	29	92	22	112	25	204
KOBORG	6,750	7,832	51	58	30	45	135	236	284	316	344	635
PILILLA	4,968	7,254	51	58	30	45	125	350	292	428	418	778
TAMAY	15,347	24,525	51	58	30	45	424	953	645	1,165	1,413	2,117
TERESSA	3,334	4,951	51	58	30	45	86	185	143	200	173	285
TOTAL	106,916	151,611	51	58	30	45	2,620	5,930	4,491	7,248	8,733	13,178

FILE:BP791DS

APPENDIX E

WATER DEMAND PROJECTION
FOR FRINGE AREA
(UPDATED FAWSP PROJECTION)

LIST OF TABLES

	PAGE
APPENDIX E WATER DEMAND PROJECTION FOR FRINGE AREA	
1. WATER DEMAND SUMMARY (BACOR)	E-1
2. WATER DEMAND SUMMARY (CAVITE CITY)	E-1
3. WATER DEMAND SUMMARY (KAWIT)	E-2
4. WATER DEMAND SUMMARY (ROSARIO)	E-2
5. POPULATION PROJECTION FOR CAVITE AREA	E-3
6. POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 1995)	E-4
7. POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 2000)	E-4
8. POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 2005)	E-5
9. POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 2010)	E-5
10. DOMESTIC WATER DEMAND (CAVITE AREA, 1995)	E-6
11. DOMESTIC WATER DEMAND (CAVITE AREA, 2000)	E-6
12. DOMESTIC WATER DEMAND (CAVITE AREA, 2005)	E-7
13. DOMESTIC WATER DEMAND (CAVITE AREA, 2010)	E-7
14. COMMERCIAL WATER DEMAND (CAVITE AREA)	E-8
15. INDUSTRIAL WATER DEMAND (CAVITE AREA)	E-8
16. INSTITUTIONAL WATER DEMAND (CAVITE AREA)	E-9
17. WATER DEMAND SUMMARY (IMUS)	E-10
18. POPULATION PROJECTION FOR IMUS	E-11
19. POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 1995)	E-12
20. POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 2000)	E-13
21. POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 2005)	E-14
22. POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 2010)	E-15
23. DOMESTIC WATER DEMAND (IMUS, 1995)	E-16
24. DOMESTIC WATER DEMAND (IMUS, 2000)	E-17
25. DOMESTIC WATER DEMAND (IMUS, 2005)	E-18

26.	DOMESTIC WATER DEMAND (IMUS, 2010)	E-19
27.	COMMERCIAL WATER DEMAND (IMUS)	E-20
28.	INDUSTRIAL WATER DEMAND (IMUS)	E-21
29.	INSTITUTIONAL WATER DEMAND (IMUS)	E-22
30.	WATER DEMAND SUMMARY (ANTIPOLO)	E-23
31.	POPULATION PROJECTION FOR ANTIPOLO	E-24
32.	POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLO, 1995)	E-25
33.	POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLO, 2000)	E-26
34.	POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLO, 2005)	E-27
35.	POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLO, 2010)	E-28
36.	DOMESTIC WATER DEMAND (ANTIPOLO, 1995)	E-29
37.	DOMESTIC WATER DEMAND (ANTIPOLO, 2000)	E-30
38.	DOMESTIC WATER DEMAND (ANTIPOLO, 2005)	E-31
39.	DOMESTIC WATER DEMAND (ANTIPOLO, 2010)	E-32
40.	COMMERCIAL WATER DEMAND (ANTIPOLO)	E-33
41.	INDUSTRIAL WATER DEMAND (ANTIPOLO)	E-34
42.	INSTITUTIONAL WATER DEMAND (ANTIPOLO)	E-35
43.	WATER DEMAND SUMMARY (SAN MATEO)	E-36
44.	POPULATION PROJECTION FOR SAN MATEO	E-37
45.	POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 1995)	E-38
46.	POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 2000)	E-39
47.	POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 2005)	E-40
48.	POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 2010)	E-41
49.	DOMESTIC WATER DEMAND (SAN MATEO, 1995)	E-42
50.	DOMESTIC WATER DEMAND (SAN MATEO, 2000)	E-43
51.	DOMESTIC WATER DEMAND (SAN MATEO, 2005)	E-44
52.	DOMESTIC WATER DEMAND (SAN MATEO, 2010)	E-45
53.	COMMERCIAL WATER DEMAND (SAN MATEO)	E-46
54.	INDUSTRIAL WATER DEMAND (SAN MATEO)	E-47
55.	INSTITUTIONAL WATER DEMAND (SAN MATEO)	E-48
56.	WATER DEMAND SUMMARY (MONTALBAN)	E-49

57.	POPULATION PROJECTION FOR MONTALBAN	E-50
58.	POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 1995)	E-51
59.	POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 2000)	E-52
60.	POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 2005)	E-53
61.	POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 2010)	E-54
62.	DOMESTIC WATER DEMAND (MONTALBAN, 1995)	E-55
63.	DOMESTIC WATER DEMAND (MONTALBAN, 2000)	E-56
64.	DOMESTIC WATER DEMAND (MONTALBAN, 2005)	E-57
65.	DOMESTIC WATER DEMAND (MONTALBAN, 2010)	E-58
66.	COMMERCIAL WATER DEMAND (MONTALBAN)	E-59
67.	INDUSTRIAL WATER DEMAND (MONTALBAN)	E-60
68.	INSTITUTIONAL WATER DEMAND (MONTALBANO)	E-61

TABLE WATER DEMAND SUMMARY (BACOR)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	18,355	30,971	48,193	70,986
COMMERCIAL	1,342	2,549	4,294	6,742
INDUSTRIAL	12	24	42	78
INSTITUTIONAL	257	426	695	1,058
SUB TOTAL	19,967	33,969	53,224	78,863
UNACCOUNTED-FOR WATER (%)	8,557 30	14,558 30	17,741 25	26,288 25
TOTAL WATER DEMAND	28,524	48,527	70,965	105,151
SERVED POPULATION	87,503	136,023	201,203	282,454
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.210	0.228	0.240	0.251
TOTAL C.	0.228	0.250	0.265	0.279

TABLE WATER DEMAND SUMMARY (CAVITE CITY)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	13,264	18,843	25,031	28,877
COMMERCIAL	2,082	3,266	5,010	6,713
INDUSTRIAL	14	22	32	40
INSTITUTIONAL	184	252	351	420
SUB TOTAL	15,543	22,384	30,424	36,050
UNACCOUNTED-FOR WATER (%)	6,661 30	9,593 30	10,141 25	12,017 25
TOTAL WATER DEMAND	22,205	31,977	40,566	48,066
SERVED POPULATION	61,689	80,998	102,324	112,628
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.215	0.233	0.245	0.256
TOTAL C.	0.252	0.276	0.297	0.320

FILE: DEMSUMCA

TABLE WATER DEMAND SUMMARY (KAWIT)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	7,813	11,609	15,379	18,352
COMMERCIAL	1,315	2,065	3,010	3,959
INDUSTRIAL	10	17	26	38
INSTITUTIONAL	116	168	236	285
SUB TOTAL	9,253	13,860	18,652	22,635
UNACCOUNTED-FOR WATER (%)	3,966 30	5,940 30	6,217 25	7,545 25
TOTAL WATER DEMAND	13,219	19,800	24,869	30,180
SERVED POPULATION	38,144	52,408	66,138	75,407
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.205	0.222	0.233	0.243
TOTAL C.	0.243	0.264	0.282	0.300

TABLE WATER DEMAND SUMMARY (ROSARIO)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	2,620	4,677	7,087	10,371
COMMERCIAL	353	665	1,101	1,753
INDUSTRIAL	4	9	15	28
INSTITUTIONAL	42	72	115	165
SUB TOTAL	3,020	5,423	8,318	12,316
UNACCOUNTED-FOR WATER (%)	1,294 30	2,324 30	2,773 25	4,105 25
TOTAL WATER DEMAND	4,314	7,747	11,091	16,422
SERVED POPULATION	13,786	22,473	32,310	44,829
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.190	0.208	0.219	0.231
TOTAL C.	0.219	0.241	0.257	0.275

FILE: DEMSUMCA

TABLE POPULATION PROJECTION FOR CAVITE AREA

BARANGAY	MUNICIPALITY POPULATION					SERVICE AREA %					SERVICE AREA POPULATION				
	1990	1995	2000	2005	2010	1995:2000	2000:2005	2005:2010	2010	1995	2000	2005	2010		
BACCOL	159,685	196,636	235,538	275,150	313,838	50	60	75	90	96,318	141,323	206,363	282,454		
CAVITE CITY	91,641	98,576	104,379	109,908	112,628	70	80	95	100	69,003	83,503	104,413	112,628		
KAWIT	47,755	55,217	62,446	69,254	75,407	80	90	100	100	44,174	58,201	69,254	75,407		
ROSARIO	45,405	53,127	60,737	68,022	74,715	30	40	50	60	15,938	24,295	34,011	44,829		
CAVITE AREA TOTAL	344,486	403,556	463,100	522,334	576,588	56	66	79	89	227,433	305,322	414,040	515,318		

FILE: CAVPOP

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 1995)

MUNICIPALITY	POP'N IN SERVICE AREA	INCOME GROUP						POPULATION IN SERVICE AREA						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP							
		DISTRIBUTION (%)			BY INCOME GROUP			LOW			MID			HI			LOW			MID			HI				
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	TOTAL	
BACOR	98,318	5	25	50	20	4,916	24,580	49,159	19,664	50	80	90	95	2,458	2,458	4,916	19,664	44,243	18,680	87,503							
CAVITE CITY	69,063	3	20	55	22	2,070	13,801	37,952	15,181	50	80	90	95	1,035	1,035	2,070	11,041	34,157	14,422	61,689							
KAWIT	44,174	2	45	40	13	883	19,878	17,669	5,743	50	80	90	95	442	442	883	15,902	15,902	5,455	38,144							
ROSARIO	15,938	10	50	30	10	1,594	7,969	4,781	1,594	50	80	90	95	797	797	1,594	6,375	4,303	1,514	13,786							
CAVITE AREA TOTAL	227,433	4	29	48	19	9,463	68,227	109,562	42,181	50	80	90	95	4,732	4,732	9,463	52,982	96,605	40,072	201,122							

FILE: CAVPOP95

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 2006)

MUNICIPALITY	POP'N IN SERVICE AREA	INCOME GROUP						POPULATION IN SERVICE AREA						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP							
		DISTRIBUTION (%)			BY INCOME GROUP			LOW			MID			HI			LOW			MID			HI				
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	TOTAL	
BACOR	141,323	5	25	50	20	7,066	35,331	70,661	28,265	65	85	100	100	4,593	4,593	7,066	30,031	70,661	28,265	136,023							
CAVITE CITY	83,503	3	20	55	22	2,505	16,701	45,927	18,371	65	85	100	100	1,628	1,628	2,505	14,196	45,927	18,371	80,998							
KAWIT	56,201	2	45	40	13	1,124	25,291	22,481	7,306	65	85	100	100	731	731	1,124	21,497	22,481	7,306	52,408							
ROSARIO	24,295	10	50	30	10	2,429	12,147	7,288	2,429	65	85	100	100	1,579	1,579	2,429	10,325	7,288	2,429	22,473							
CAVITE AREA TOTAL	305,322	4	29	48	18	13,125	89,469	146,357	56,371	65	85	100	100	8,531	8,531	13,125	76,049	146,357	56,371	291,902							

FILE: CAVPOP00

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 2005)

MUNICIPALITY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP																					
		LOW			MID			MID-HI			HI			LOW			MID			MID-HI			HI			TOTAL															
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	TOTAL												
BACOR	206,363	5	25	50	20	10,318	51,591	103,181	41,273	70	90	100	100	7,223	3,095	10,318	46,432	103,181	41,273	201,203	3	20	55	22	3,132	20,883	57,427	22,971	70	90	100	100	2,193	940	3,132	18,794	57,427	22,971	102,324		
CAVITE CITY	104,413	3	20	55	22	3,132	20,883	57,427	22,971	70	90	100	100	2,193	940	3,132	18,794	57,427	22,971	102,324	2	45	40	13	1,385	31,164	27,702	9,003	70	90	100	100	970	416	1,385	28,048	27,702	9,003	66,138		
KAVIT	69,254	2	45	40	13	1,385	31,164	27,702	9,003	70	90	100	100	970	416	1,385	28,048	27,702	9,003	66,138	10	50	30	10	3,401	17,006	10,203	3,401	70	90	100	100	2,381	1,020	3,401	15,305	10,203	3,401	32,310		
ROSARIO	34,011	10	50	30	10	3,401	17,006	10,203	3,401	70	90	100	100	2,381	1,020	3,401	15,305	10,203	3,401	32,310	4	29	48	19	18,237	120,643	198,513	76,647	70	90	100	100	12,756	5,471	18,237	108,579	198,513	76,647	401,976		
CAVITE AREA TOTAL:	414,040	4	29	48	19	18,237	120,643	198,513	76,647	70	90	100	100	12,756	5,471	18,237	108,579	198,513	76,647	401,976																					

FILE: CAVPOP05

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (CAVITE AREA, 2010)

MUNICIPALITY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP																						
		LOW			MID			MID-HI			HI			LOW			MID			MID-HI			HI			TOTAL																
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	TOTAL													
BACOR	282,454	5	25	50	20	14,123	70,614	141,227	56,491	80	100	100	100	11,288	2,825	14,123	70,614	141,227	56,491	282,454	3	20	55	22	3,379	22,526	61,945	24,778	80	100	100	100	2,703	676	3,379	22,526	61,945	24,778	112,628			
CAVITE CITY	112,628	3	20	55	22	3,379	22,526	61,945	24,778	80	100	100	100	2,703	676	3,379	22,526	61,945	24,778	112,628	2	45	40	13	1,508	33,933	30,163	9,803	80	100	100	100	1,207	302	1,508	33,933	30,163	9,803	75,407			
KAVIT	75,407	2	45	40	13	1,508	33,933	30,163	9,803	80	100	100	100	1,207	302	1,508	33,933	30,163	9,803	75,407	10	50	30	10	4,483	22,415	13,449	4,483	80	100	100	100	3,586	897	4,483	22,415	13,449	4,483	44,829			
ROSARIO	44,829	10	50	30	10	4,483	22,415	13,449	4,483	80	100	100	100	3,586	897	4,483	22,415	13,449	4,483	44,829	5	29	48	19	23,493	149,487	246,784	95,555	80	100	100	100	18,794	4,698	23,493	149,487	246,784	95,555	515,318			
CAVITE AREA TOTAL:	515,318	5	29	48	19	23,493	149,487	246,784	95,555	80	100	100	100	18,794	4,698	23,493	149,487	246,784	95,555	515,318																						

FILE: CAVPOP10

TABLE DOMESTIC WATER DEMAND (CAVITE AREA, 1995)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL			
BACOR	2,458	2,458	4,916	19,664	44,243	18,680	87,503	151	22	183	215	258	371	54	425	3,598	9,512	4,820	18,355
CAVITE CITY	1,035	1,035	2,070	11,041	34,157	14,422	61,889	151	22	183	215	258	156	23	179	2,020	7,344	3,721	13,264
KAWIT	442	442	883	15,802	15,902	5,455	38,144	151	22	183	215	258	67	10	76	2,910	3,419	1,408	7,813
ROSARIO	797	797	1,594	6,375	4,303	1,514	13,786	151	22	183	215	258	120	18	138	1,167	925	391	2,620
CAVITE AREA TOTAL:	4,732	4,732	9,463	52,982	98,605	40,072	201,122	151	22	183	215	258	714	104	819	9,896	21,200	10,338	42,053

FILE: CAVDOM95

TABLE DOMESTIC WATER DEMAND (CAVITE AREA, 2000)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL			
BACOR	4,593	2,473	7,066	30,031	70,661	28,265	136,023	162	24	197	232	278	744	59	803	5,916	16,393	7,858	30,971
CAVITE CITY	1,628	877	2,505	14,196	45,927	18,371	80,998	162	24	197	232	278	264	21	285	2,797	10,655	5,107	18,843
KAWIT	731	393	1,124	21,497	22,481	7,306	52,408	162	24	197	232	278	118	9	128	4,235	5,215	2,031	11,609
ROSARIO	1,579	850	2,429	10,325	7,288	2,429	22,473	162	24	197	232	278	256	20	276	2,034	1,691	675	4,677
CAVITE AREA TOTAL:	8,531	4,594	13,125	76,049	146,357	56,371	291,902	162	24	197	232	278	1,382	110	1,492	14,982	33,955	15,671	66,100

FILE: CAVDOM00

TABLE DOMESTIC WATER DEMAND (CAVITE AREA, 2005)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	LOW				MID				HIGH										
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	TOTAL						
BACOR	7,223	3,095	10,318	46,432	103,181	41,273	201,203	171	25	207	244	293	1,235	77	1,312	9,611	25,178	12,093	48,193
CAVITE CITY	2,193	940	3,132	18,794	57,427	22,971	102,324	171	25	207	244	293	375	23	398	3,890	14,012	6,730	25,031
KAWIT	970	416	1,385	28,048	27,702	9,003	56,138	171	25	207	244	293	166	10	176	5,806	6,759	2,638	15,379
ROSARIO	2,381	1,020	3,401	15,305	10,203	3,401	32,310	171	25	207	244	293	407	26	433	3,168	2,490	997	7,087
CAVITE AREA TOTAL	12,766	5,471	18,237	108,579	198,513	76,647	401,976	171	25	207	244	293	2,183	137	2,320	22,476	48,437	22,458	95,690

FILE: CAYDOM05

TABLE DOMESTIC WATER DEMAND (CAVITE AREA, 2010)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	LOW				MID				HIGH										
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	TOTAL						
BACOR	11,298	2,825	14,123	70,614	141,227	56,491	282,454	179	26	218	256	307	2,022	73	2,096	15,394	36,154	17,343	70,986
CAVITE CITY	2,703	676	3,379	22,526	61,945	24,778	112,628	179	26	218	256	307	484	18	501	4,911	15,858	7,607	28,877
KAWIT	1,207	302	1,508	33,933	30,163	9,803	75,407	179	26	218	256	307	216	8	224	7,397	7,722	3,009	18,352
ROSARIO	3,586	897	4,483	22,415	13,449	4,483	44,829	179	26	218	256	307	642	23	665	4,886	3,443	1,376	10,371
CAVITE AREA TOTAL	18,794	4,699	23,493	149,487	246,784	95,555	515,318	179	26	218	256	307	3,364	122	3,486	32,568	63,177	29,335	128,566

FILE: CAYDOM10

TABLE COMMERCIAL WATER DEMAND (CAVITE AREA)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN.'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M3/D)			COMMERCIAL WATER DEMAND (M3/D)							
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010				
BACOR	98,318	141,323	206,363	282,454	256	2.00	2.50	2.75	3.00	767	1,378	2,213	3,305	1.75	1.85	1.94	2.04	1,342	2,549	4,294	6,742
CAVITE CITY	69,003	83,503	104,413	112,628	67	1.25	1.50	1.75	2.00	1,285	1,866	2,723	3,356	1.62	1.75	1.84	2.00	2,682	3,266	5,010	6,713
KAWIT	44,174	56,201	69,254	75,407	95	1.75	2.00	2.25	2.50	812	1,180	1,636	1,979	1.62	1.75	1.84	2.00	1,315	2,065	3,010	3,959
ROSARIO	15,938	24,295	34,011	44,829	128	1.75	2.00	2.25	2.50	218	380	598	876	1.62	1.75	1.84	2.00	353	565	1,101	1,753
CAVITE AREA TOTAL	227,433	305,322	414,040	515,318	-	-	-	-	-	3,062	4,804	7,170	9,517	1.65	1.78	1.87	2.01	5,092	8,545	13,415	19,166

FILE: CAVCOMAL

TABLE INDUSTRIAL WATER DEMAND (CAVITE AREA)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN.'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M3/D)			INDUSTRIAL WATER DEMAND (M3/D)							
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010				
BACOR	98,318	141,323	206,363	282,454	121,739	2.00	2.50	2.75	3.00	9	16	26	39	1.30	1.45	1.60	2.00	12	24	42	78
CAVITE CITY	69,003	83,503	104,413	112,628	119,231	2.00	2.50	2.75	3.00	7	11	15	18	1.91	2.06	2.17	2.28	14	22	32	40
KAWIT	44,174	56,201	69,254	75,407	111,765	2.00	2.50	2.75	3.00	8	12	16	19	1.30	1.45	1.60	2.00	10	17	25	38
ROSARIO	15,938	24,295	34,011	44,829	9,709	2.00	2.50	2.75	3.00	3	6	10	14	1.30	1.45	1.60	2.00	4	9	15	28
CAVITE AREA TOTAL	227,433	305,322	414,040	515,318	-	2.00	2.50	2.75	3.00	27	45	67	90	1.46	1.60	1.73	2.05	39	72	115	184

FILE: CAVINDAL

TABLE INSTITUTIONAL WATER DEMAND (CAVITE AREA)

MUNICIPALITY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	NUMBER OF CONNECTIONS				UNIT CONSUMPTION (MS/D)				INSTITUTIONAL WATER DEMAND (MS/D)			
	1995	2000	2010		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
BACOR	98,318	141,323	206,363	2,000	49	71	103	141	5.25	6.00	6.75	7.50	257	426	695	1,058
CAVITE CITY	69,003	83,503	104,413	2,000	35	42	52	56	5.25	6.00	6.75	7.50	184	252	351	420
KAWIT	44,174	56,201	69,254	2,000	22	28	35	38	5.25	6.00	6.75	7.50	116	168	236	285
ROSARIO	15,938	24,295	34,011	2,000	8	12	17	22	5.25	6.00	6.75	7.50	42	72	115	165
CAVITE AREA TOTAL	227,433	305,322	414,040	2,000	114	153	207	257	5.25	6.00	6.75	7.50	599	918	1,397	1,928

FILE: CAVINSAL

TABLE WATER DEMAND SUMMARY (IMUS)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	9,344	15,764	22,571	33,219
COMMERCIAL	788	1,378	2,285	5,010
INDUSTRIAL	492	954	1,904	3,758
INSTITUTIONAL	359	652	888	1,206
SUB TOTAL	10,983	18,748	27,648	43,193
UNACCOUNTED-FOR WATER (%)	4,707 30	8,035 30	9,216 25	14,398 25
TOTAL WATER DEMAND	15,690	26,783	36,864	57,591
SERVED POPULATION	43,982	68,928	91,544	125,253
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.212	0.229	0.247	0.265
TOTAL C.	0.250	0.272	0.302	0.345

FILE: DEMSUMIM

TABLE
POPULATION PROJECTION FOR IMUS

BARANGAY	CENSUS				BARANGAY POPULATION						SERVICE AREA %						SERVICE AREA POPULATION					
	1990	(%)	1995	2000	2005	2010	1995:2000	2000:2005	2005:2010	1995	2000	2005	2010	1995	2000	2005	2010					
ALAPAN I	3,674	3.99	4,274	4,860	5,417	5,924	-	30	40	60	0	1,458	2,167	3,554								
ALAPAN II	791	0.86	920	1,046	1,166	1,275	-	20	35	50	0	209	408	638								
ANABU I	7,524	8.17	8,752	9,953	11,092	12,132	35	50	70	80	3,063	4,978	7,765	9,705								
ANABU II	5,062	5.49	5,888	6,696	7,463	8,162	30	45	65	80	1,766	3,013	4,851	6,530								
BAYAN LUMA	10,363	11.25	12,054	13,708	15,278	16,709	60	65	75	90	7,233	8,910	11,458	15,038								
BUCANDALA	4,230	4.59	4,920	5,595	6,236	6,820	60	75	85	100	2,952	4,196	5,301	6,820								
CALSADANG BAGO	2,740	2.97	3,187	3,624	4,040	4,418	35	40	50	75	1,116	1,450	2,020	3,313								
MALAGASANG I	6,075	6.59	7,067	8,036	8,956	9,795	15	65	75	85	1,060	5,223	6,717	8,326								
MALAGASANG II	6,805	7.39	7,916	9,001	10,032	10,972	45	50	60	75	3,562	4,501	6,019	8,229								
MEDICION I	4,282	4.65	4,981	5,664	6,313	6,904	55	75	85	90	2,740	4,248	5,366	6,214								
MEDICION II	6,237	6.77	7,255	8,250	9,195	10,057	60	65	70	80	4,353	5,363	6,437	8,045								
PALICO	4,688	5.09	5,453	6,201	6,911	7,559	50	55	60	100	2,727	3,411	4,147	7,559								
PAG-ASA	2,552	2.77	2,969	3,376	3,762	4,115	-	20	40	50	0	675	1,505	2,057								
PASONG BUAYA	1,983	2.15	2,307	2,629	2,923	3,197	-	-	-	-	0	0	0	0								
POBLACION	7,770	8.43	9,038	10,278	11,455	12,528	80	85	90	100	7,231	8,736	10,310	12,528								
TANZANG LUMA	12,748	13.84	14,829	16,863	18,794	20,555	70	80	85	100	10,330	13,490	15,975	20,555								
TOCLONG I	2,935	3.19	3,414	3,882	4,327	4,732	45	50	70	90	1,536	1,941	3,029	4,259								
TOCLONG II	1,666	1.81	1,938	2,204	2,456	2,686	40	60	70	70	775	1,322	1,719	1,880								
IMUS TOTAL	92,125	100.00	107,162	121,860	135,818	148,542	47	60	70	84	50,494	73,123	95,193	125,253								

FILE: IMUSPOP

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 1995)

BARANGAY AREA	POP'N IN SERVICE	INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP							
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	DIRECT	SUB.T.	TOTAL					
ALAPAN I	0	2	39	53	6	0	0	50	80	90	95	0	0	0	0	0		
ALAPAN II	0	2	8	60	30	0	0	50	80	90	95	0	0	0	0	0		
ANABU I	3,063	2	50	45	3	61	1,532	1,378	92	50	80	90	31	61	1,225	1,241	87	
ANABU II	1,766	1	35	55	9	16	618	972	159	50	80	90	9	18	495	874	151	
BAYAN LUNA	7,233	5	40	42	13	362	2,893	3,038	940	50	80	90	181	362	2,314	2,734	893	
BUCANDALA	2,952	5	29	47	19	148	856	1,388	561	50	80	90	74	148	685	1,249	533	
CALSADANG BAGO	1,116	4	31	60	5	45	346	689	56	50	80	90	22	45	277	602	53	
MALAGASANG I	1,060	13	36	42	9	138	382	445	95	50	80	90	69	138	305	401	91	
MALAGASANG II	3,562	5	35	48	12	178	1,247	1,710	427	50	80	90	89	178	997	1,539	406	
MEDICION I	2,740	6	38	48	8	164	1,041	1,315	219	50	80	90	82	164	833	1,183	208	
MEDICION II	4,353	0	17	63	20	0	740	2,742	871	50	80	90	0	0	582	2,468	827	
PALICO	2,727	1	33	56	10	27	900	1,527	273	50	80	90	14	27	720	1,374	259	
PAG-ASA	0	0	55	45	0	0	0	0	0	50	80	90	0	0	0	0	0	
PASONG BUAYA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
POBLACION	7,231	1	43	49	7	72	3,109	3,543	506	50	80	90	36	72	2,487	3,189	481	
TANZANG LUNA	10,380	6	47	35	12	623	4,879	3,633	1,246	50	80	90	311	623	3,903	3,270	1,183	
TOCLONG I	1,536	2	30	63	5	31	461	988	77	50	80	90	15	31	369	871	73	
TOCLONG II	775	1	34	62	3	8	264	481	23	50	80	90	4	8	211	433	22	
IMUS TOTAL	50,494	4	38	47	11	1,874	19,266	23,808	5,545	50	80	90	937	937	1,874	15,413	21,428	5,268

FILE: IMSFOR95

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 2000)

BARANGAY	POP N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA BY INCOME GROUP						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP					
		LOW		MID		HI		LOW		MID		HI		LOW		MID		HI		DIRECT		SUB.F.		TOTAL	
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
ALAPAN I	1,458	2	39	53	6	29	569	773	87	60	85	100	100	17	12	29	483	773	87	1,373					
ALAPAN II	209	2	8	60	30	4	17	126	63	60	85	100	100	3	2	4	14	126	63	207					
ANABU I	4,976	2	50	45	3	100	2,488	2,239	149	60	85	100	100	60	40	100	2,115	2,239	149	4,603					
ANABU II	3,013	1	35	55	9	30	1,055	1,657	271	60	85	100	100	18	12	30	396	1,657	271	2,855					
BAYAN LUMA	8,910	5	40	42	13	446	3,564	3,742	1,158	60	85	100	100	287	178	446	3,029	3,742	1,158	8,375					
BUCANDALA	4,196	5	29	47	19	210	1,217	1,972	797	60	85	100	100	126	84	210	1,034	1,972	797	4,614					
CALSADANG BAGO	1,450	4	31	60	5	58	449	870	72	60	85	100	100	35	23	58	382	870	72	1,382					
MALAGASANG I	5,223	13	36	42	9	679	1,880	2,194	470	60	85	100	100	407	272	679	1,598	2,194	470	4,941					
MALAGASANG II	4,501	5	35	48	12	225	1,575	2,160	540	60	85	100	100	135	90	225	1,399	2,160	540	4,264					
MEDICION I	4,248	6	38	48	8	255	1,614	2,039	340	60	85	100	100	153	102	255	1,372	2,039	340	4,006					
MEDICION II	5,363	0	17	63	20	0	912	3,378	1,073	60	85	100	100	0	0	0	775	3,378	1,073	5,226					
PALICO	3,411	1	33	56	10	34	1,126	1,910	341	60	85	100	100	20	14	34	957	1,910	341	3,242					
PAG-ASA	675	0	55	45	0	0	371	304	0	60	85	100	100	0	0	0	316	304	0	619					
PASONG BUAYA	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
POBLACION	8,736	1	43	49	7	87	3,757	4,281	612	60	85	100	100	52	35	87	3,193	4,281	612	8,173					
TANZANG LUMA	13,490	6	47	35	12	809	6,340	4,722	1,619	60	85	100	100	486	324	809	5,389	4,722	1,619	12,539					
TOCLONG I	1,941	2	30	63	5	39	582	1,223	97	60	85	100	100	23	16	39	485	1,223	97	1,854					
TOCLONG II	1,322	1	34	62	3	13	450	820	40	60	85	100	100	8	5	13	382	820	40	1,255					
IMUS TOTAL	73,123	4	38	47	11	3,018	27,966	34,410	7,730	60	85	100	100	1,811	1,207	3,018	23,771	34,410	7,730	68,928					

FILE: IMSPOP00

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 2005)

BARANGAY AREA	POP'N IN SERVICE	INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP									
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	DIRECT	PUB. F.	SUB. I.	MID	MID-HI	HI	TOTAL			
ALAPAN I	2,167	2	39	53	6	43	845	1,148	130	70	90	100	100	30	13	43	760	1,148	130	2,082
ALAPAN II	408	2	8	50	30	8	33	245	122	70	90	100	100	6	2	8	29	245	122	405
ANABU I	7,765	2	50	45	3	155	3,982	3,494	233	70	90	100	100	109	47	155	3,494	3,494	233	7,376
ANABU II	4,851	1	35	55	9	49	1,898	2,668	437	70	90	100	100	34	15	49	1,528	2,668	437	4,681
BAYAN LUMA	11,458	5	40	42	13	573	4,583	4,813	1,490	70	90	100	100	401	172	573	4,125	4,813	1,490	11,000
BUCANDALA	5,301	5	29	47	19	265	1,537	2,491	1,007	70	90	100	100	186	80	265	1,384	2,491	1,007	5,147
CALADANG RAGO	2,020	4	31	60	5	81	626	1,212	101	70	90	100	100	57	24	81	564	1,212	101	1,957
MALAGASANG I	6,717	13	36	42	9	873	2,418	2,821	605	70	90	100	100	811	262	873	2,176	2,821	605	6,475
MALAGASANG II	6,019	5	35	48	12	301	2,107	2,889	722	70	90	100	100	211	90	301	1,896	2,889	722	5,809
MEDICION I	5,366	6	38	48	8	322	2,039	2,576	429	70	90	100	100	225	97	322	1,835	2,576	429	5,162
MEDICION II	6,437	0	17	63	20	0	1,094	4,055	1,287	70	90	100	100	0	0	0	985	4,055	1,287	6,327
PALICO	4,147	1	33	55	10	41	1,388	2,322	415	70	90	100	100	29	12	41	1,232	2,322	415	4,010
PAG-ASA	1,505	0	55	45	0	0	828	677	0	70	90	100	100	0	0	0	745	677	0	1,422
PASONG BUAYA	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
POBLACION	10,310	1	43	49	7	103	4,433	5,052	722	70	90	100	100	72	31	103	3,990	5,052	722	9,866
TANZANG LUMA	15,975	6	47	35	12	958	7,508	5,591	1,917	70	90	100	100	671	288	958	6,757	5,591	1,917	15,224
TOCLONG I	3,029	2	30	63	5	61	909	1,908	151	70	90	100	100	42	18	61	816	1,908	151	2,938
TOCLONG II	1,719	1	34	62	3	17	585	1,066	52	70	90	100	100	12	5	17	526	1,066	52	1,661
IMUS TOTAL	95,193	4	38	47	10	3,851	36,494	45,029	9,820	70	90	100	100	2,696	1,155	3,851	32,844	45,029	9,820	91,544

FILE: IMSP095

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (IMUS, 2010)

BARANGAY AREA	POPULATION IN SERVICE AREA				WILLINGNESS TO CONNECT FACTOR (%)				SERVED POPULATION BY INCOME GROUP											
	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP									
	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	TOTAL							
ALAPAN I	3,554	2	39	53	6	71	1,386	1,884	213	80	100	100	100	57	14	71	1,386	1,884	213	3,554
ALAPAN II	638	2	8	60	30	13	51	383	191	80	100	100	100	10	3	13	51	383	191	638
ANABU I	9,705	2	50	45	3	194	4,953	4,367	291	80	100	100	100	155	39	194	4,853	4,367	291	9,705
ANABU II	6,530	1	35	55	9	65	2,285	3,591	588	80	100	100	100	52	13	65	2,285	3,591	588	6,530
BAYAN LUMA	15,038	5	40	42	13	752	6,015	6,316	1,955	80	100	100	100	602	150	752	6,015	6,316	1,955	15,038
BUGANDALA	6,820	5	29	47	19	341	1,978	3,206	1,296	80	100	100	100	273	68	341	1,978	3,206	1,296	6,820
CALSADANG BAGO	3,313	4	31	60	5	133	1,027	1,988	166	80	100	100	100	106	27	133	1,027	1,988	166	3,313
MALAGASANG I	8,326	13	36	42	9	1,082	2,997	3,497	749	80	100	100	100	866	216	1,082	2,997	3,497	749	8,326
MALAGASANG II	8,229	5	35	48	12	411	2,860	3,950	985	80	100	100	100	329	82	411	2,860	3,950	985	8,229
MEDICION I	6,214	6	38	48	8	373	2,361	2,983	497	80	100	100	100	298	75	373	2,361	2,983	497	6,214
MEDICION II	8,045	0	17	63	20	0	1,368	5,068	1,609	80	100	100	100	0	0	0	1,368	5,068	1,609	8,045
PALICO	7,559	1	33	56	10	78	2,494	4,233	756	80	100	100	100	60	15	78	2,494	4,233	756	7,559
PAG-ASA	2,057	0	55	45	0	0	1,132	926	0	80	100	100	100	0	0	0	1,132	926	0	2,057
PASONG BUAYA	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
POBLACION	12,528	1	43	49	7	125	5,387	6,139	877	50	100	100	100	100	25	125	5,387	6,139	877	12,528
TANZANG LUMA	20,555	6	47	35	12	1,233	9,861	7,194	2,467	80	100	100	100	987	247	1,233	9,861	7,194	2,467	20,555
TOCLONG I	4,259	2	30	63	5	85	1,278	2,683	213	80	100	100	100	68	17	85	1,278	2,683	213	4,259
TOCLONG II	1,860	1	34	62	3	19	639	1,166	56	80	100	100	100	15	4	19	639	1,166	56	1,860
IMUS TOTAL	125,253	4	38	48	10	4,974	47,793	59,574	12,912	80	100	100	100	3,979	955	4,974	47,793	59,574	12,912	125,253

FILE: IMUSPOP10

TABLE DOMESTIC WATER DEMAND (IMUS, 1985)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)					
	DIRECT	SUB.I.	MID	HI	DIRECT	PUB.F.	MID	HI	DIRECT	PUB.F.	SUB.I.	MID	HI	TOTAL
ALAPAN I	0	0	0	0	157	39	191	224	269	0	0	0	0	0
ALAPAN II	0	0	0	0	157	39	191	224	269	0	0	0	0	0
ANABU I	31	61	1,225	1,241	157	39	191	224	269	5	1	6	234	278
ANABU II	9	18	495	874	157	39	191	224	269	1	0	2	94	196
BAYAN LUMA	181	362	2,314	2,734	157	39	191	224	269	28	7	35	442	612
BUGANDAHA	74	148	685	1,249	157	39	191	224	269	12	3	14	131	280
CALSADANG BAGO	22	45	277	602	157	39	191	224	269	4	1	4	53	135
MALAGASANG I	69	138	305	401	157	39	191	224	269	11	3	14	58	90
MALAGASANG II	89	178	937	1,539	157	39	191	224	269	14	3	17	191	345
MEDICION I	82	164	833	1,183	157	39	191	224	269	13	3	16	159	265
MEDICION II	0	0	592	2,468	157	39	191	224	269	0	0	0	113	553
PALICO	14	27	720	1,374	157	39	191	224	269	2	1	3	137	308
PAC-ASA	0	0	0	0	157	39	191	224	269	0	0	0	0	0
PASONG BUAYA	0	0	0	0	157	39	191	224	269	0	0	0	0	0
POBLACION	36	72	2,487	3,189	157	39	191	224	269	6	1	7	475	714
TANZANG LUMA	311	623	3,903	3,270	157	39	191	224	269	49	12	61	745	732
TOCLONG I	15	31	369	871	157	39	191	224	269	2	1	3	70	195
TOCLONG II	4	8	211	433	157	39	191	224	269	1	0	1	40	97
IMUS TOTAL	937	1,874	15,413	21,428	157	39	191	224	269	147	37	184	2,944	4,800
														1,417
														9,344

FILE: IMSD0895

TABLE DOMESTIC WATER DEMAND (IMUS, 2000)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	SUB.T.	TOTAL					
ALAPAN I	17	12	29	483	773	87	1,373	169	42	205	241	290	3	0	3	99	186	25	314
ALAPAN II	3	2	4	14	126	63	207	169	42	205	241	290	0	0	0	3	30	18	52
ANABU I	60	40	100	2,115	2,239	149	4,603	169	42	205	241	290	10	2	12	434	540	43	1,028
ANABU II	18	12	30	896	1,657	271	2,855	169	42	205	241	290	3	1	4	184	339	79	665
BAVAX LUMA	267	178	446	3,029	3,742	1,158	8,375	169	42	205	241	290	45	7	53	621	902	336	1,911
BUCANDALA	126	84	210	1,034	1,972	797	4,014	169	42	205	241	290	21	4	25	212	475	231	943
CALSADANG BAGO	35	23	58	382	870	72	1,382	169	42	205	241	290	6	1	7	78	210	21	316
MALAGASANG I	407	272	679	1,598	2,194	470	4,941	169	42	205	241	290	69	11	80	328	529	136	1,073
MALAGASANG II	135	90	225	1,339	2,160	540	4,264	169	42	205	241	290	23	4	27	274	521	157	978
MEDICION I	153	102	255	1,372	2,039	340	4,006	169	42	205	241	290	26	4	30	281	491	99	901
MEDICION II	0	0	0	775	3,378	1,073	5,226	169	42	205	241	290	0	0	0	159	814	311	1,284
PALICO	20	14	34	957	1,910	341	3,242	169	42	205	241	290	3	1	4	196	460	99	759
PAG-ASA	0	0	0	316	304	0	619	169	42	205	241	290	0	0	0	65	73	0	138
PASONG BUAYA	0	0	0	0	0	0	0	169	42	205	241	290	0	0	0	0	0	0	0
POBLACION	52	35	87	3,193	4,281	612	8,173	169	42	205	241	290	9	1	10	655	1,032	177	1,874
TANZANG LUMA	486	324	809	5,389	4,722	1,619	12,539	169	42	205	241	290	82	14	96	1,105	1,138	469	2,808
TOGLONG I	23	16	39	495	1,223	97	1,854	169	42	205	241	290	4	1	5	101	295	28	429
TOGLONG II	6	5	13	382	820	40	1,255	169	42	205	241	290	1	0	2	78	198	12	289
IMUS TOTAL	1,811	1,207	3,018	23,771	34,410	7,730	68,928	169	42	205	241	290	306	51	357	4,873	6,293	2,242	15,764

FILE: IMSDOM60

TABLE DOMESTIC WATER DEMAND (IMUS, 2005)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)									
	LOW	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	LOW	MID	MID-HI	HI	TOTAL			
ALAPAN I	30	43	760	1,148	130	2,082	182	44	221	260	312	6	1	6	168	299	41	513
ALAPAN II	6	2	8	245	122	405	182	44	221	260	312	1	0	1	6	64	38	110
ANABU I	109	47	155	3,494	283	7,376	182	44	221	260	312	20	2	22	772	908	73	1,775
ANABU II	34	15	49	1,528	437	4,681	182	44	221	260	312	6	1	7	338	694	136	1,174
BAYAN LUMA	401	172	573	4,125	4,813	11,000	182	44	221	260	312	73	8	81	912	1,251	465	2,708
BUCANDALA	186	80	265	1,384	2,491	5,147	182	44	221	260	312	34	3	37	306	648	314	1,305
CALSADANG BAGO	57	24	81	564	1,212	1,957	182	44	221	260	312	10	1	11	125	315	32	482
MALAGASANG I	611	262	878	2,176	2,821	6,475	182	44	221	260	312	111	12	123	481	734	189	1,528
MALAGASANG II	211	90	301	1,896	2,889	5,809	182	44	221	260	312	38	4	42	419	751	225	1,438
MEDICION I	225	97	322	1,835	2,576	5,162	182	44	221	260	312	41	4	45	405	670	134	1,254
MEDICION II	0	0	0	985	4,055	1,287	182	44	221	260	312	0	0	0	218	1,054	402	1,674
PALICO	28	12	41	1,232	2,322	415	182	44	221	260	312	5	1	6	272	604	129	1,011
PAG-ASA	0	0	0	745	877	1,422	182	44	221	260	312	0	0	0	165	178	0	341
PASONG BUAYA	0	0	0	0	0	0	182	44	221	260	312	0	0	0	0	0	0	0
POBLACION	72	31	103	3,990	5,052	9,866	182	44	221	260	312	13	1	14	882	1,313	225	2,435
TANZANG LUMA	671	288	958	6,757	5,591	15,224	182	44	221	260	312	122	13	135	1,493	1,454	598	3,680
TOCLONG I	42	18	61	818	1,908	2,938	182	44	221	260	312	8	1	9	181	496	47	733
TOCLONG II	12	5	17	526	1,066	1,661	182	44	221	260	312	2	0	2	116	277	16	412
IMUS TOTAL	2,696	1,155	3,851	32,844	45,029	91,544	182	44	221	260	312	491	51	541	7,259	11,708	3,064	22,571

FILE: IMSDOM05

TABLE DOMESTIC WATER DEMAND (IMUS, 2010)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)									
	DIRECT PUB.F.	SUB.T.	MID	HI	DIRECT PUB.F.	MID	HI	TOTAL	DIRECT PUB.F.	MID	HI	TOTAL	DIRECT PUB.F.	SUB.T.	MID	HI	TOTAL	
ALAPAN I	57	14	71	1,386	1,884	213	3,554	196	46	238	280	336	11	12	330	527	72	941
ALAPAN II	10	3	13	51	383	191	638	196	46	238	280	336	2	0	12	197	64	186
ANABU I	155	39	194	4,853	4,387	291	9,705	196	46	238	280	336	30	2	1,155	1,223	98	2,508
ANABU II	52	13	65	2,285	3,591	588	6,530	196	46	238	280	336	10	11	544	1,008	197	1,758
BAYAN LUMA	602	150	752	6,015	6,316	1,955	15,038	196	46	238	280	336	118	7	1,432	1,769	657	3,982
BUCARDALA	273	68	341	1,978	3,206	1,296	6,820	196	46	238	280	336	53	3	57	471	898	1,860
CALSADANG BAGO	106	27	133	1,027	1,988	166	3,313	196	46	238	280	336	21	1	22	244	557	879
MALAGASANG I	866	216	1,082	2,997	3,497	749	8,326	196	46	238	280	336	170	10	180	713	979	2,522
MALAGASANG II	329	82	411	2,880	3,950	988	8,229	196	46	238	280	336	65	4	68	685	1,106	332
MEDICION I	298	75	373	2,361	2,983	487	6,214	196	46	238	280	336	58	3	62	562	835	1,677
MEDICION II	0	0	0	1,368	5,068	1,609	8,045	196	46	238	280	336	0	0	326	1,419	541	2,285
PALICO	60	15	76	2,494	4,233	756	7,559	196	46	238	280	336	12	1	13	594	1,185	254
PAG-ASA	0	0	0	1,132	326	0	2,057	196	46	238	280	336	0	0	269	259	0	529
PASONG BUAYA	0	0	0	0	0	0	0	196	46	238	280	336	0	0	0	0	0	0
POBLACION	100	25	125	5,387	6,139	877	12,528	196	46	238	280	336	20	1	21	1,282	1,719	295
TANGANG LUMA	987	247	1,233	9,661	7,194	2,467	20,555	196	46	238	280	336	193	11	205	2,299	2,014	829
TOCLONG I	68	17	85	1,278	2,683	213	4,259	196	46	238	280	336	13	1	14	304	751	72
TOCLONG II	15	4	19	639	1,466	56	1,880	196	46	238	280	336	3	0	152	326	19	501
IMUS TOTAL	3,979	985	4,974	47,793	59,574	12,912	125,253	196	46	238	280	336	780	46	826	11,375	16,681	4,338

FILE: IMSDOM10

TABLE COMMERCIAL WATER DEMAND (IMUS)

BARANGAY	POPULATION IN SERVICE AREA				DENSITY PER CONN'N	DENSITY INCREASE COEFFICIENT				NUMBER OF CONNECTIONS				UNIT CONSUMPTION (M3/D)				COMMERCIAL WATER DEMAND (M3/D)			
	1995	2000	2005	2010		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
	ALAPAN I	0	1,458	2,187		3,554	100	1.2	1.3	1.5	2.0	0	19	32	71	1.30	1.45	1.60	2.00	0	27
ALAPAN II	0	209	408	638	100	1.2	1.3	1.5	2.0	0	3	6	13	1.30	1.45	1.60	2.00	0	4	10	26
ANABU I	3,063	4,976	7,765	9,705	100	1.2	1.3	1.5	2.0	37	65	116	194	1.30	1.45	1.60	2.00	48	94	186	388
ANABU II	1,766	3,013	4,851	6,530	100	1.2	1.3	1.5	2.0	21	39	73	131	1.30	1.45	1.60	2.00	28	57	116	261
BAYAN LUHA	7,233	8,910	11,458	15,038	100	1.2	1.3	1.5	2.0	87	116	172	301	1.30	1.45	1.60	2.00	113	168	275	602
BUGANDA	2,952	4,196	5,301	6,820	100	1.2	1.3	1.5	2.0	35	55	80	136	1.30	1.45	1.60	2.00	46	79	127	273
CALSADANG BAGO	1,116	1,450	2,020	3,313	100	1.2	1.3	1.5	2.0	13	19	30	66	1.30	1.45	1.60	2.00	17	27	43	133
MALAGASANG I	1,060	5,223	6,717	8,326	100	1.2	1.3	1.5	2.0	13	68	101	167	1.30	1.45	1.60	2.00	17	98	161	333
MALAGASANG II	3,562	4,501	6,019	8,229	100	1.2	1.3	1.5	2.0	43	59	90	165	1.30	1.45	1.60	2.00	56	85	144	329
MEDICION I	2,740	4,248	5,366	6,214	100	1.2	1.3	1.5	2.0	33	55	80	124	1.30	1.45	1.60	2.00	43	80	129	249
MEDICION II	4,353	5,363	6,437	8,045	100	1.2	1.3	1.5	2.0	52	70	97	161	1.30	1.45	1.60	2.00	68	101	154	322
PALICO	2,727	3,411	4,147	7,559	100	1.2	1.3	1.5	2.0	33	44	62	151	1.30	1.45	1.60	2.00	43	64	100	302
PAG-ASA	0	675	1,505	2,057	100	1.2	1.3	1.5	2.0	0	9	23	41	1.30	1.45	1.60	2.00	0	13	36	82
PASONG BUAYA	0	0	0	0	100	1.2	1.3	1.5	2.0	0	0	0	0	1.30	1.45	1.60	2.00	0	0	0	0
POBLACION	7,231	8,736	10,310	12,528	100	1.2	1.3	1.5	2.0	87	114	155	251	1.30	1.45	1.60	2.00	113	165	247	501
TANZANG LUHA	10,380	13,490	15,975	20,555	100	1.2	1.3	1.5	2.0	125	175	240	411	1.30	1.45	1.60	2.00	162	254	333	822
TOOLONG I	1,536	1,941	3,029	4,259	100	1.2	1.3	1.5	2.0	18	25	45	85	1.30	1.45	1.60	2.00	24	37	73	170
TOOLONG II	775	1,322	1,719	1,880	100	1.2	1.3	1.5	2.0	9	17	26	38	1.30	1.45	1.60	2.00	12	25	41	75
IMUS TOTAL	50,494	73,123	95,193	125,253	100	1.2	1.3	1.5	2.0	606	951	1,428	2,505	1.30	1.45	1.60	2.00	788	1,378	2,285	5,010

FILE: IMSCORAL

TABLE INDUSTRIAL WATER DEMAND (IMUS)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS					UNIT CONSUMPTION (MS/D)					INDUSTRIAL WATER DEMAND (MS/D)				
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	
ALAPAN I	0	1,458	2,167	3,554	200	1.5	1.8	2.5	3.0	0	13	27	53	1.30	1.45	1.60	2.00	0	19	43	107	
ALAPAN II	0	209	408	638	200	1.5	1.8	2.5	3.0	0	2	5	10	1.30	1.45	1.60	2.00	0	3	8	19	
ANABU I	3,063	4,976	7,765	9,705	200	1.5	1.8	2.5	3.0	23	45	97	146	1.30	1.45	1.60	2.00	30	65	155	291	
ANABU II	1,766	3,013	4,851	6,530	200	1.5	1.8	2.5	3.0	13	27	61	98	1.30	1.45	1.60	2.00	17	39	97	196	
BAYAN LUMA	7,233	8,910	11,458	15,038	200	1.5	1.8	2.5	3.0	54	80	143	226	1.30	1.45	1.60	2.00	71	116	229	451	
BUCANDALA	2,952	4,196	5,301	6,520	200	1.5	1.8	2.5	3.0	22	38	66	102	1.30	1.45	1.60	2.00	29	55	106	205	
CALSAPANG BAGO	1,116	1,450	2,020	3,313	200	1.5	1.8	2.5	3.0	8	13	25	50	1.30	1.45	1.60	2.00	11	19	40	99	
MALAGASANG I	1,060	5,223	6,717	8,326	200	1.5	1.8	2.5	3.0	8	47	84	125	1.30	1.45	1.60	2.00	10	68	134	250	
MALAGASANG II	3,562	4,501	6,019	8,229	200	1.5	1.8	2.5	3.0	27	41	75	123	1.30	1.45	1.60	2.00	35	59	120	247	
MEDICION I	2,740	4,248	5,366	6,214	200	1.5	1.8	2.5	3.0	21	38	67	93	1.30	1.45	1.60	2.00	27	55	107	186	
MEDICION II	4,353	5,363	6,437	8,045	200	1.5	1.8	2.5	3.0	33	48	80	121	1.30	1.45	1.60	2.00	42	70	129	241	
PALICO	2,727	3,411	4,147	7,559	200	1.5	1.8	2.5	3.0	20	31	52	113	1.30	1.45	1.60	2.00	27	45	83	227	
PAG-ASA	0	675	1,505	2,057	200	1.5	1.8	2.5	3.0	0	6	19	31	1.30	1.45	1.60	2.00	0	9	30	62	
PASONG BUAYA	0	0	0	0	200	1.5	1.8	2.5	3.0	0	0	0	0	1.30	1.45	1.60	2.00	0	0	0	0	
POBLACION	7,231	8,736	10,310	12,528	200	1.5	1.8	2.5	3.0	54	79	129	188	1.30	1.45	1.60	2.00	70	114	206	376	
TANZANG LUMA	10,380	13,490	15,975	20,555	200	1.5	1.8	2.5	3.0	78	121	200	308	1.30	1.45	1.60	2.00	101	176	319	617	
TOCLONG I	1,536	1,941	3,029	4,259	200	1.5	1.8	2.5	3.0	12	17	38	64	1.30	1.45	1.60	2.00	15	25	61	128	
TOCLONG II	775	1,322	1,719	1,880	200	1.5	1.8	2.5	3.0	6	12	21	28	1.30	1.45	1.60	2.00	8	17	34	56	
IMUS TOTAL	50,494	73,123	95,193	125,253	200	1.5	1.8	2.5	3.0	379	658	1,190	1,879	1.30	1.45	1.60	2.00	492	954	1,904	3,758	

FILE: IMUSINDAL

TABLE INSTITUTIONAL WATER DEMAND (INUS)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M3/D)			INSTITUTIONAL WATER DEMAND (M3/D)						
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010				
ALAPAN I	0	1,458	2,167	3,554	2,000	0	1	2	13.80	17.61	18.51	19.45	0	18	19	39	
ALAPAN II	0	209	408	638	2,000	0	0	0	13.80	17.61	18.51	19.45	0	0	0	0	
ANABU I	3,063	4,976	7,765	9,705	2,000	2	2	4	13.80	17.61	18.51	19.45	28	35	74	97	
ANABU II	1,766	3,013	4,851	6,530	2,000	1	2	3	13.80	17.61	18.51	19.45	14	35	37	58	
BAYANG LUMA	7,233	8,910	11,458	15,038	2,000	4	4	6	13.80	17.61	18.51	19.45	55	70	111	156	
BUCANDALA	2,952	4,196	5,301	6,820	2,000	1	2	3	13.80	17.61	18.51	19.45	14	35	56	58	
CALSADANG BAGO	1,116	1,450	2,020	3,313	2,000	1	1	1	13.80	17.61	18.51	19.45	14	18	19	39	
MALACASANG I	1,060	5,223	6,717	8,326	2,000	1	3	3	13.80	17.61	18.51	19.45	14	53	56	78	
MALACASANG II	3,562	4,501	6,019	8,229	2,000	2	2	3	13.80	17.61	18.51	19.45	28	35	56	78	
MEDICION I	2,740	4,248	5,366	6,214	2,000	1	2	3	13.80	17.61	18.51	19.45	14	35	56	58	
MEDICION II	4,353	5,363	6,437	8,045	2,000	2	3	3	13.80	17.61	18.51	19.45	28	53	56	78	
PALICO	2,727	3,411	4,147	7,559	2,000	1	2	2	13.80	17.61	18.51	19.45	14	35	37	78	
PAG-ASA	0	675	1,505	2,057	2,000	0	0	1	13.80	17.61	18.51	19.45	0	0	19	19	
PASONG BUAYA	0	0	0	0	2,000	0	0	0	13.80	17.61	18.51	19.45	0	0	0	0	
POBLACION	7,231	8,736	10,310	12,528	2,000	4	4	5	13.80	17.61	18.51	19.45	55	70	93	117	
TANZANG LUMA	10,380	13,490	15,975	20,555	2,000	5	7	8	10	13.80	17.61	18.51	19.45	69	123	148	195
TOGLONG I	1,536	1,941	3,029	4,259	2,000	1	1	2	2	13.80	17.61	18.51	19.45	14	18	37	39
TOGLONG II	775	1,322	1,719	1,880	2,000	0	1	1	1	13.80	17.61	18.51	19.45	0	18	19	19
INUS TOTAL	50,494	73,123	95,193	125,253	2,000	26	37	48	62	13.80	17.61	18.51	19.45	359	652	888	1,206

FILE: IMSINSAL

TABLE WATER DEMAND SUMMARY (ANTIPOLO)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	11,090	17,690	25,514	35,948
COMMERCIAL	2,265	3,800	5,960	8,922
INDUSTRIAL	317	541	823	1,202
INSTITUTIONAL	257	408	614	863
SUB TOTAL	13,929	22,439	32,911	46,935
UNACCOUNTED-FOR WATER (%)	5,970 30	9,617 30	10,970 25	15,645 25
TOTAL WATER DEMAND	19,899	32,056	43,881	62,580
SERVED POPULATION	89,241	128,403	174,175	230,254
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.124	0.138	0.146	0.156
TOTAL C.	0.156	0.175	0.189	0.204

FILE: DEMSUMAN

TABLE POPULATION PROJECTION FOR ANTIPOLO

BARANGAY	CENSUS		BARANGAY POPULATION						SERVICE AREA %						SERVICE AREA POPULATION					
	1990	(%)	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010		
	PROJECTED																			
BAGONG NAYON	16,002	8.66	22,644	27,647	32,752	37,637	75	80	90	100	16,983	22,118	29,477	37,637	16,983	22,118	29,477	37,637		
SEVERLY HILLS	1,034	0.50	1,385	1,767	2,161	2,532	55	60	70	80	762	1,060	1,513	2,026	762	1,060	1,513	2,026		
CALAWIS	1,662	0.80	2,172	2,725	3,293	3,831	-	-	-	-	0	0	0	0	0	0	0	0		
CUPANG	25,696	12.36	32,263	39,380	46,620	53,551	0	5	8	10	0	1,969	3,730	5,355	0	1,969	3,730	5,355		
DALIG	20,344	9.79	25,566	31,204	36,956	42,461	-	-	-	-	0	0	0	0	0	0	0	0		
DE LA PAZ(POB.)	21,033	10.12	26,441	32,269	38,215	43,906	75	80	90	100	19,631	25,615	34,394	43,906	19,631	25,615	34,394	43,906		
INARAMAN	4,965	2.39	6,312	7,767	9,254	10,673	-	-	-	-	0	0	0	0	0	0	0	0		
MAMBUGAN	15,636	7.52	19,660	24,039	28,467	32,743	0	10	25	35	0	2,404	7,122	11,460	0	2,404	7,122	11,460		
MAYAMOT	15,867	7.64	19,995	24,423	28,941	33,264	75	77	78	80	14,996	18,606	22,574	26,611	14,996	18,606	22,574	26,611		
SAN ISIDRO	19,260	9.27	24,220	29,566	35,020	40,240	60	63	65	70	14,532	18,627	22,763	28,166	14,532	18,627	22,763	28,166		
SAN JOSE	26,121	12.57	32,815	40,028	47,365	54,428	65	75	80	85	21,330	30,021	37,908	46,264	21,330	30,021	37,908	46,264		
SAN JUAN	1,394	0.67	1,838	2,319	2,813	3,280	-	-	-	-	0	0	0	0	0	0	0	0		
SAN LUIS	6,241	3.00	7,910	9,712	11,553	13,311	-	-	-	-	0	0	0	0	0	0	0	0		
SAN ROQUE	17,227	8.29	21,673	26,465	31,355	36,034	55	60	70	80	11,920	15,679	21,949	28,627	11,920	15,679	21,949	28,627		
STA. CRUZ	13,340	6.42	16,804	20,536	24,349	27,995	-	-	-	-	0	0	0	0	0	0	0	0		
ANTIPOLO TOTAL	207,842	100.00	261,736	319,849	379,154	435,686	36	43	46	53	100,354	136,696	181,426	230,254	100,354	136,696	181,426	230,254		

FILE: ANTIPO

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLO, 1995)

BARANGAY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA BY INCOME GROUP						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP					
		LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL	
BAGONG NAYON	16,983	28	43	20	9	4,755	7,303	3,397	1,528	50	80	90	95	2,378	2,378	4,755	5,842	3,057	1,452	15,106					
BEVERLY HILLS	762	25	37	28	10	190	282	213	76	50	80	90	95	95	95	190	225	192	72	690					
CALAWIS	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
CUPANG	0	24	36	32	8	0	0	0	0	50	80	90	95	0	0	0	0	0	0	0					
DALIG	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
DE LA PAZ (POS.)	19,631	28	43	20	9	5,553	8,527	3,966	1,785	50	80	90	95	2,776	2,776	5,553	6,822	3,570	1,695	17,639					
INARAWAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
MAMBUGHAN	0	19	18	42	21	0	0	0	0	50	80	90	95	0	0	0	0	0	0	0					
MAYAMOT	14,996	19	34	28	19	2,849	5,099	4,199	2,849	50	80	90	95	1,425	1,425	2,849	4,079	3,779	2,707	13,414					
SAN ISIDRO	14,532	30	36	20	12	4,360	5,522	2,906	1,744	50	80	90	95	2,180	2,180	4,360	4,418	2,616	1,657	13,050					
SAN JOSE	21,330	19	46	27	8	4,053	9,812	5,759	1,706	50	80	90	95	2,026	2,026	4,053	7,849	5,183	1,621	18,706					
SAN JUAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
SAN LUIS	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
SAN ROQUE	11,920	25	37	28	10	2,980	4,410	3,338	1,192	50	80	90	95	1,490	1,490	2,980	3,528	3,004	1,132	10,645					
STA. CRUZ	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
ANTIPOLO TOTAL	100,354	25	41	24	11	24,740	40,955	23,778	10,661	50	80	90	95	12,370	12,370	24,740	32,764	21,400	10,337	89,241					

FILE: ANTIP95

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLO, 2000)

BARRANGY AREA	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA BY INCOME GROUP						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP							
		LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	TOTAL	
SARONG NAYON	22,118	28	43	20	9	6,193	9,511	4,424	1,991	60	85	100	100	3,716	2,477	6,193	8,084	4,424	1,991	20,691	3,716	2,477	6,193	8,084	4,424	1,991	20,691
BEVERLY HILLS	1,050	25	37	28	10	265	392	297	106	60	85	100	100	159	106	265	333	297	106	1,001	159	106	265	333	297	1,001	
CALAWIS	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
CUPANG	1,969	24	36	32	8	473	709	630	156	60	85	100	100	284	189	473	603	630	156	1,863	284	189	473	603	630	1,863	
DALIG	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
DE LA PAZ (POB.)	25,815	28	43	20	9	7,228	11,101	5,163	2,323	60	85	100	100	4,337	2,891	7,228	9,435	5,163	2,323	24,150	4,337	2,891	7,228	9,435	5,163	24,150	
INARAWAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
MAMBUGAN	2,404	19	18	42	21	457	433	1,010	505	60	85	100	100	274	183	457	368	1,010	505	2,339	274	183	457	368	1,010	2,339	
MAYAMOT	18,806	19	34	26	19	3,573	6,394	5,266	3,573	60	85	100	100	2,144	1,429	3,573	5,435	5,266	3,573	17,847	2,144	1,429	3,573	5,435	5,266	17,847	
SAN ISIDRO	18,627	30	38	20	12	5,568	7,078	3,725	2,235	60	85	100	100	3,353	2,235	5,568	6,016	3,725	2,235	17,565	3,353	2,235	5,568	6,016	3,725	17,565	
SAN JOSE	30,021	19	46	27	8	5,704	13,810	8,106	2,402	50	85	100	100	3,422	2,262	5,704	11,738	8,106	2,402	27,950	3,422	2,262	5,704	11,738	8,106	27,950	
SAN JUAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
SAN LUIS	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
SAN ROGUE	15,879	25	37	28	10	3,970	5,875	4,446	1,588	60	85	100	100	2,382	1,588	3,970	4,994	4,446	1,588	14,998	2,382	1,588	3,970	4,994	4,446	14,998	
STA. CRUZ	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANTIPOLO TOTAL	136,698	24	40	24	11	33,450	55,302	33,066	14,860	60	85	100	100	20,070	13,360	33,450	47,007	33,066	14,860	128,403	20,070	13,360	33,450	47,007	33,066	128,403	

FILE: ANTIPOLO

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLDO, 2005)

BARANGAY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA BY INCOME GROUP						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP							
		LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	PUB.F.	SUB.Y.	MID	MID-HI	HI
BAGONG NAYON	29,477	26	43	20	9	6,254	12,675	5,895	2,653	70	90	100	100	5,777	2,476	8,254	11,408	5,895	2,653	26,209	5,777	2,476	8,254	11,408	5,895	2,653	26,209
BEVERLY HILLS	1,513	25	37	28	10	376	560	424	151	70	90	100	100	265	113	376	504	424	151	1,457	265	113	376	504	424	151	1,457
CALAMIS	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUPANG	3,730	24	36	32	8	895	1,343	1,193	298	70	90	100	100	627	269	895	1,208	1,193	298	3,595	627	269	895	1,208	1,193	298	3,595
DALIG	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DE LA PAZ (POB.)	34,394	28	43	20	9	9,630	14,789	6,879	3,095	70	90	100	100	6,741	2,889	9,630	13,310	6,879	3,095	32,915	6,741	2,889	9,630	13,310	6,879	3,095	32,915
INARAWAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAMBUGAN	7,122	19	16	42	21	1,353	1,282	2,991	1,496	70	90	100	100	947	406	1,353	1,154	2,991	1,496	6,994	947	406	1,353	1,154	2,991	1,496	6,994
MAYAMOT	22,574	19	34	26	19	4,289	7,675	6,321	4,289	70	90	100	100	3,002	1,287	4,289	6,908	6,321	4,289	21,806	3,002	1,287	4,289	6,908	6,321	4,289	21,806
SAN ISIDRO	22,753	30	38	20	12	6,829	8,650	4,553	2,732	70	90	100	100	4,780	2,049	6,829	7,785	4,553	2,732	21,898	4,780	2,049	6,829	7,785	4,553	2,732	21,898
SAN JOSE	37,908	19	46	27	8	7,203	17,436	10,235	3,033	70	90	100	100	5,042	2,161	7,203	15,694	10,235	3,033	36,164	5,042	2,161	7,203	15,694	10,235	3,033	36,164
SAN JUAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAN LUIS	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAN ROGUE	21,949	25	37	28	10	5,487	8,121	6,146	2,195	70	90	100	100	3,841	1,646	5,487	7,309	6,146	2,195	21,136	3,841	1,646	5,487	7,309	6,146	2,195	21,136
STA. CRUZ	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTIPOLDO TOTAL	181,428	24	40	25	11	44,318	72,532	44,636	19,942	70	90	100	100	31,022	13,295	44,318	65,279	44,636	19,942	174,175	31,022	13,295	44,318	65,279	44,636	19,942	174,175

FILE: ANTIPOPOS

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (ANTIPOLLO, 2010)

BARANGAY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA BY INCOME GROUP						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP					
		LOW		MID		HI		LOW		MID		HI		LOW		MID		HI		LOW		MID		HI	
		28	43	20	9	10,538	16,184	7,527	3,367	80	100	100	100	80	100	100	100	80	100	100	100	100	100	100	100
BAGONG NAYON	37,637	28	43	20	9	10,538	16,184	7,527	3,367	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
BEVERLY HILLS	2,026	25	37	28	10	506	749	567	203	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
CALANIS	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUPANG	5,355	24	36	32	8	1,285	1,928	1,714	428	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
DALIG	0	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DE LA PAZ (POB.)	43,906	28	43	20	9	12,294	18,880	8,781	3,952	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
INARAWAN	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MABUGAN	11,460	19	18	42	21	2,177	2,063	4,613	2,407	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
MAYAMOT	26,611	19	34	28	19	5,056	9,048	7,451	5,056	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
SAN ISIDRO	28,168	30	38	20	12	8,450	10,704	5,634	3,380	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
SAN JOSE	46,264	19	46	27	8	8,790	21,281	12,491	3,701	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
SAN JUAN	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN LUIS	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN ROQUE	28,827	25	37	28	10	7,207	10,666	8,072	2,883	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100
STA. CRUZ	0	-	-	-	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANTIPOLLO TOTAL	230,254	24	40	25	11	56,305	91,503	57,050	25,397	80	100	100	100	80	100	100	100	80	100	100	100	80	100	100	100

FILE: ANTIPOLLO

TABLE DOMESTIC WATER DEMAND (ANTIPOLO, 1995)

BARANGAY	SERVED POPULATION BY INCOME GROUP					UNIT CONSUMPTION (LPCD)					WATER DEMAND BY INCOME GROUP (MS/D)								
	LOW					LOW					LOW								
	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL
BAGONG NAYON	2,378	2,378	4,755	5,842	3,057	1,452	15,106	106	39	128	151	181	252	93	345	748	462	263	1,817
BEVERLY HILLS	95	95	190	225	192	72	680	106	39	128	151	181	10	4	14	29	29	13	85
CALAWIS	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
CUPANG	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
DALIG	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
DE LA PAZ (POB.)	2,776	2,776	5,553	6,622	3,570	1,696	17,639	106	39	128	151	181	294	106	403	873	539	307	2,122
INARAWAN	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
MAMBAGAN	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
MAYAMOT	1,425	1,425	2,849	4,079	3,779	2,707	13,414	106	39	128	151	181	151	56	207	522	571	490	1,769
SAN ISIDRO	2,180	2,180	4,360	4,418	2,616	1,657	13,050	106	39	128	151	181	231	85	316	565	395	300	1,575
SAN JOSE	2,026	2,026	4,053	7,849	5,183	1,621	18,706	106	39	128	151	181	215	79	294	1,005	783	293	2,375
SAN JUAN	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
SAN LUIS	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
SAN ROQUE	1,490	1,490	2,980	3,528	3,004	1,132	10,645	106	39	128	151	181	158	58	216	452	454	205	1,326
STA. CRUZ	0	0	0	0	0	0	0	106	39	128	151	181	0	0	0	0	0	0	0
ANTIPOLO TOTAL	12,370	12,370	24,740	32,764	21,400	10,337	89,241	106	39	128	151	181	1,311	482	1,794	4,194	3,231	1,871	11,090

FILE: ANTDOM95

TABLE DOMESTIC WATER DEMAND (ANTIPOLO, 2000)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (MG/D)										
	LOW		MID-HI		MID		HI		MID-HI		HI		TOTAL						
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL			
BAGONG NAYON	3,716	2,477	6,193	8,084	4,424	1,991	20,691	114	42	139	163	196	424	104	528	1,124	721	390	2,762
BEVERLY HILLS	159	106	265	333	297	106	1,001	114	42	139	163	196	18	4	23	46	48	21	138
CALAWIS	0	0	0	0	0	0	0	114	42	139	163	196	0	0	0	0	0	0	0
CUPANG	284	189	473	603	630	158	1,863	114	42	139	163	196	32	8	40	84	103	31	258
DALIG	0	0	0	0	0	0	0	114	42	139	163	196	0	0	0	0	0	0	0
DE LA PAZ(POB.)	4,337	2,691	7,228	9,435	5,163	2,323	24,150	114	42	139	163	196	494	121	616	1,312	842	455	3,224
INARAMAN	0	0	0	0	0	0	0	114	42	139	163	196	0	0	0	0	0	0	0
MABELGAN	274	183	457	368	1,010	505	2,339	114	42	139	163	196	31	8	39	51	165	99	354
MAYAMOT	2,144	1,429	3,573	5,435	5,266	3,573	17,847	114	42	139	163	196	244	60	304	755	858	700	2,618
SAN ISIDRO	3,353	2,235	5,588	6,016	3,725	2,235	17,565	114	42	139	163	196	362	94	476	836	607	438	2,358
SAN JOSE	3,422	2,282	5,704	11,738	8,106	2,402	27,950	114	42	139	163	196	390	96	486	1,632	1,321	471	3,910
SAN JUAN	0	0	0	0	0	0	0	114	42	139	163	196	0	0	0	0	0	0	0
SAN LUIS	0	0	0	0	0	0	0	114	42	139	163	196	0	0	0	0	0	0	0
SAN ROQUE	2,382	1,588	3,970	4,994	4,446	1,588	14,998	114	42	139	163	196	272	67	338	694	725	311	2,068
STA. CRUZ	0	0	0	0	0	0	0	114	42	139	163	196	0	0	0	0	0	0	0
ANTIPOLO TOTAL	20,070	13,360	33,450	47,007	33,066	14,880	128,403	114	42	139	163	196	2,288	562	2,850	6,534	5,390	2,917	17,690

FILE: ANTIDM00

TABLE DOMESTIC WATER DEMAND (ANTIPOLO, 2005)

SARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (MS/D)				TOTAL						
	DIRECT	PUB.F.	SUB.T.	LOW	DIRECT	PUB.F.	MID	HI	DIRECT	PUB.F.	MID	HI		DIRECT	PUB.F.	MID	HI	TOTAL	
BAGONG MAYON	5,777	2,476	8,254	11,408	5,695	2,653	28,209	120	44	145	171	206	693	109	802	1,654	1,008	546	4,011
BEVERLY HILLS	265	113	378	504	424	151	1,457	120	44	145	171	206	32	5	37	73	72	31	213
CALAMIS	0	0	0	0	0	0	0	120	44	145	171	206	0	0	0	0	0	0	0
CUPANG	627	269	895	1,208	1,193	298	3,595	120	44	145	171	206	75	12	87	175	204	61	528
DALIG	0	0	0	0	0	0	0	120	44	145	171	206	0	0	0	0	0	0	0
DE LA PAZ(POB.)	6,741	2,889	9,630	13,310	6,879	3,095	32,915	120	44	145	171	206	809	127	936	1,930	1,176	636	4,660
INARAWAN	0	0	0	0	0	0	0	120	44	145	171	206	0	0	0	0	0	0	0
MAMBUSAN	947	406	1,353	1,154	2,991	1,496	6,994	120	44	145	171	206	114	18	132	167	511	308	1,118
MAYAMOT	3,002	1,287	4,289	6,908	5,321	4,289	21,806	120	44	145	171	206	360	57	417	1,002	1,081	884	3,383
SAN ISIDRO	4,790	2,049	6,829	7,785	4,553	2,732	21,896	120	44	145	171	206	574	90	664	1,129	778	563	3,134
SAN JOSE	5,042	2,151	7,203	15,694	10,235	3,033	36,164	120	44	145	171	206	605	95	700	2,276	1,750	625	5,351
SAN JUAN	0	0	0	0	0	0	0	120	44	145	171	206	0	0	0	0	0	0	0
SAN LUIS	0	0	0	0	0	0	0	120	44	145	171	206	0	0	0	0	0	0	0
SAN ROQUE	3,841	1,546	5,487	7,309	6,146	2,195	21,136	120	44	145	171	206	461	72	533	1,060	1,051	452	3,096
STA. CRUZ	0	0	0	0	0	0	0	120	44	145	171	206	0	0	0	0	0	0	0
ANTIPOLO TOTAL	31,022	13,295	44,318	65,279	44,636	19,942	174,175	120	44	145	171	206	3,723	585	4,308	9,465	7,633	4,108	25,514

FILE: ANTDOM05

TABLE DOMESTIC WATER DEMAND (ANTIPOLO, 2010)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPOD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	DIRECT	PUB.F.	SUB.T.	LOW	DIRECT	PUB.F.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	SUB.T.	LOW	MID	MID-HI	HI	TOTAL	
BAGONG NAYON	8,431	2,108	10,538	16,184	7,527	3,387	37,637	126	46	153	180	216	1,062	97	1,159	2,476	1,355	732	5,722
BEVERLY HILLS	405	101	506	749	567	203	2,026	126	46	153	180	216	51	5	56	115	102	44	316
CALAMIS	0	0	0	0	0	0	0	126	46	153	180	216	0	0	0	0	0	0	0
CUPANG	1,028	257	1,285	1,928	1,714	428	5,355	126	46	153	180	216	130	12	141	295	306	93	837
DALIG	0	0	0	0	0	0	0	126	46	153	180	216	0	0	0	0	0	0	0
DE LA PAZ(POB.)	9,835	2,459	12,294	18,880	8,781	3,952	43,906	126	46	153	180	216	1,239	113	1,352	2,889	1,581	854	6,675
INARAWAN	0	0	0	0	0	0	0	126	46	153	180	216	0	0	0	0	0	0	0
MAYBUKAN	1,742	435	2,177	2,063	4,813	2,407	11,460	126	46	153	180	216	219	20	240	316	866	520	1,941
MAYMOT	4,045	1,011	5,056	9,048	7,451	5,056	26,611	126	46	153	180	216	510	47	556	1,384	1,341	1,092	4,374
SAN ISIDRO	5,769	1,690	8,450	10,704	5,634	3,380	26,168	126	46	153	180	216	852	78	930	1,638	1,014	730	4,311
SAN JOSE	7,032	1,758	8,790	21,281	12,491	3,701	46,264	126	46	153	180	216	886	81	967	3,256	2,248	799	7,271
SAN JUAN	0	0	0	0	0	0	0	126	46	153	180	216	0	0	0	0	0	0	0
SAN LUIS	0	0	0	0	0	0	0	126	46	153	180	216	0	0	0	0	0	0	0
SAN ROGUE	5,765	1,441	7,207	10,666	8,072	2,883	26,827	126	46	153	180	216	726	66	793	1,632	1,453	623	4,500
STA. CRUZ	0	0	0	0	0	0	0	126	46	153	180	216	0	0	0	0	0	0	0
ANTIPOLO TOTAL	45,044	11,261	56,305	91,503	57,050	25,397	230,254	126	46	153	180	216	5,875	518	6,193	14,000	10,269	5,486	35,946

FILE: ANTIPOLO

TABLE COMMERCIAL WATER DEMAND (ANTIPOLO)

BARANGAY	POPULATION IN SERVICE AREA				DENSITY PER CONN'TN	DENSITY INCREASE COEFFICIENT				NUMBER OF CONNECTIONS					UNIT CONSUMPTION (MS/D)					COMMERCIAL WATER DEMAND (MS/D)					
	1995	2000	2005	2010		1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
BAGONG MAYON	16,983	22,118	29,477	37,637	200	1.8	2.0	2.3	2.5	149	221	332	470	2.58	2.78	2.92	3.10	383	615	968	1488				
BEVERLY HILLS	762	1,060	1,513	2,026	200	1.8	2.0	2.3	2.5	7	11	17	25	2.58	2.78	2.92	3.10	17	29	50	78				
CALANIS	0	0	0	0	200	1.8	2.0	2.3	2.5	0	0	0	0	2.58	2.78	2.92	3.10	0	0	0	0				
CUPANG	0	1,969	3,730	5,355	200	1.8	2.0	2.3	2.5	0	20	42	67	2.58	2.78	2.92	3.10	0	55	123	208				
DALIG	0	0	0	0	200	1.8	2.0	2.3	2.5	0	0	0	0	2.58	2.78	2.92	3.10	0	0	0	0				
DE LA PAZ (POB.)	19,831	25,815	34,394	45,906	200	1.8	2.0	2.3	2.5	174	258	387	549	2.58	2.78	2.92	3.10	448	718	1130	1701				
INAPAMAN	0	0	0	0	200	1.8	2.0	2.3	2.5	0	0	0	0	2.58	2.78	2.92	3.10	0	0	0	0				
MABUGAN	0	2,404	7,122	11,460	200	1.8	2.0	2.3	2.5	0	24	80	143	2.58	2.78	2.92	3.10	0	67	234	444				
MAYAROT	14,996	18,806	22,574	26,611	200	1.8	2.0	2.3	2.5	131	188	254	333	2.58	2.78	2.92	3.10	339	523	742	1031				
SAN ISIDRO	14,532	18,627	22,763	26,168	200	1.8	2.0	2.3	2.5	127	186	256	352	2.58	2.78	2.92	3.10	328	518	748	1092				
SAN JOSE	21,330	30,021	37,908	46,264	200	1.8	2.0	2.3	2.5	187	300	426	578	2.58	2.78	2.92	3.10	462	835	1245	1793				
SAN JUAN	0	0	0	0	200	1.8	2.0	2.3	2.5	0	0	0	0	2.58	2.78	2.92	3.10	0	0	0	0				
SAN LUIS	0	0	0	0	200	1.8	2.0	2.3	2.5	0	0	0	0	2.58	2.78	2.92	3.10	0	0	0	0				
SAN ROQUE	11,920	15,879	21,949	28,827	200	1.8	2.0	2.3	2.5	104	159	247	360	2.58	2.78	2.92	3.10	269	441	721	1117				
STA. CRUZ	0	0	0	0	200	1.8	2.0	2.3	2.5	0	0	0	0	2.58	2.78	2.92	3.10	0	0	0	0				
ANTIPOLO TOTAL	100,354	136,698	181,428	230,254	200	1.8	2.0	2.3	2.5	878	1,367	2,041	2,878	2.58	2.78	2.92	3.10	2,265	3,800	5,960	8,922				

FILE: ANTCOMAL

TABLE INDUSTRIAL WATER DEMAND (ANTIPOLO)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY: PER CONN* ^N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M ³ /D)			INDUSTRIAL WATER DEMAND (M ³ /D)							
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010				
BAGONG MAYON	16,983	22,118	29,477	37,637	1,667	2.15	2.50	2.75	3.00	22	33	49	68	2.45	2.64	2.75	2.90	54	88	134	196
BEVERLY HILLS	762	1,060	1,513	2,026	1,667	2.15	2.50	2.75	3.00	1	2	2	4	2.45	2.64	2.75	2.90	2	4	7	11
CALAWIS	0	0	0	0	1,667	2.15	2.50	2.75	3.00	0	0	0	0	2.45	2.64	2.75	2.90	0	0	0	0
CUPANG	0	1,969	3,730	5,355	1,667	2.15	2.50	2.75	3.00	0	3	6	10	2.45	2.64	2.75	2.90	0	8	17	28
DALIG	0	0	0	0	1,667	2.15	2.50	2.75	3.00	0	0	0	0	2.45	2.64	2.75	2.90	0	0	0	0
DE LA PAZ(POB.)	19,831	25,815	34,394	43,906	1,667	2.15	2.50	2.75	3.00	26	39	57	79	2.45	2.64	2.75	2.90	63	102	156	229
INARAWAN	0	0	0	0	1,667	2.15	2.50	2.75	3.00	0	0	0	0	2.45	2.64	2.75	2.90	0	0	0	0
MAMBUGAN	0	2,404	7,122	11,460	1,667	2.15	2.50	2.75	3.00	0	4	12	21	2.45	2.64	2.75	2.90	0	10	32	60
MAYANOT	14,996	18,806	22,574	26,611	1,667	2.15	2.50	2.75	3.00	19	28	37	48	2.45	2.64	2.75	2.90	47	74	102	139
SAN ISIDRO	14,532	18,627	22,763	28,168	1,667	2.15	2.50	2.75	3.00	19	28	38	51	2.45	2.64	2.75	2.90	46	74	103	147
SAN JOSE	21,330	30,021	37,908	46,264	1,667	2.15	2.50	2.75	3.00	28	45	63	83	2.45	2.64	2.75	2.90	67	119	172	241
SAN JUAN	0	0	0	0	1,667	2.15	2.50	2.75	3.00	0	0	0	0	2.45	2.64	2.75	2.90	0	0	0	0
SAN LUIS	0	0	0	0	1,667	2.15	2.50	2.75	3.00	0	0	0	0	2.45	2.64	2.75	2.90	0	0	0	0
SAN ROGUE	11,920	15,879	21,949	28,827	1,667	2.15	2.50	2.75	3.00	15	24	36	52	2.45	2.64	2.75	2.90	38	63	100	150
STA. CRUZ	0	0	0	0	1,667	2.15	2.50	2.75	3.00	0	0	0	0	2.45	2.64	2.75	2.90	0	0	0	0
ANTIPOLO TOTAL	100,354	136,698	181,428	230,254	1,667	2.15	2.50	2.75	3.00	129	205	299	414	2.45	2.64	2.75	2.90	317	541	823	1,202

FILE: ANTINDAL

TABLE INSTITUTIONAL WATER DEMAND (ANTIPOLO)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY: PER CONN'N	NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M ³ /D)			INSTITUTIONAL WATER DEMAND (M ³ /D)						
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010				
BAGONG NAYON	16,983	22,118	29,477	37,637	2,000	8	11	15	19	5.25	6.00	6.75	7.50	42	66	101	143
BEVERLY HILLS	762	1,060	1,513	2,026	2,000	0	1	1	1	5.25	6.00	6.75	7.50	0	6	7	8
CALAWIS	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
CUPANG	0	1,989	3,730	5,355	2,000	0	1	2	3	5.25	6.00	6.75	7.50	0	6	14	23
DALIG	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
DE LA PAZ(POB.)	19,831	25,815	34,394	43,906	2,000	10	13	17	22	5.25	6.00	6.75	7.50	53	76	115	165
INARAWAN	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
MAMBUGAN	0	2,404	7,122	11,460	2,000	0	1	4	6	5.25	6.00	6.75	7.50	0	6	27	45
MAYAMOT	14,996	16,806	22,574	26,611	2,000	7	9	11	13	5.25	6.00	6.75	7.50	37	54	74	98
SAN ISIDRO	14,532	18,627	22,763	28,168	2,000	7	9	11	14	5.25	6.00	6.75	7.50	37	54	74	105
SAN JOSE	21,330	30,021	37,908	46,264	2,000	11	15	19	23	5.25	6.00	6.75	7.50	58	90	128	173
SAN JUAN	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
SAN LUIS	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
SAN ROGUE	11,920	15,879	21,949	28,627	2,000	6	8	11	14	5.25	6.00	6.75	7.50	32	48	74	105
STA. CRUZ	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
ANTIPOLO TOTAL	100,354	136,698	181,428	230,254	2,000	49	68	91	115	5.25	6.00	6.75	7.50	257	406	614	863

FILE: ANTINSAL

TABLE WATER DEMAND SUMMARY (SAN MATEO)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	4,352	6,883	10,166	14,476
COMMERCIAL	896	1,427	2,385	4,562
INDUSTRIAL	175	302	476	695
INSTITUTIONAL	84	144	203	270
SUB TOTAL	5,506	8,756	13,229	20,003
UNACCOUNTED-FOR WATER (%)	2,360 30	3,753 30	4,410 25	6,668 25
TOTAL WATER DEMAND	7,866	12,508	17,639	26,670
SERVED POPULATION	32,138	44,392	57,739	72,489
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.135	0.155	0.176	0.200
TOTAL C.	0.171	0.197	0.229	0.276

FILE: DEMSUMSM

TABLE POPULATION PROJECTION FOR SAN MATEO

BARANGAY	CENSUS		BARANGAY POPULATION					SERVICE AREA %					SERVICE AREA POPULATION					
	1990	(%)	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
AMPID I, II	13,948	16.95	15,658	17,230	18,576	19,618	50	55	70	80	7,829	9,477	13,003	15,694				
BANABA	7,554	9.18	8,480	9,332	10,060	10,625	0	0	0	0	0	0	0	0				
DULONG BAYAN 1	3,308	4.02	3,714	4,086	4,406	4,653	70	75	80	90	2,599	3,065	3,524	4,187				
DULONG BAYAN 2	4,691	5.70	5,266	5,795	6,247	6,598	68	85	80	90	3,581	4,926	4,998	5,938				
GUINAYANG	4,843	5.88	5,437	5,983	6,450	6,812	50	60	65	70	2,718	3,590	4,192	4,768				
QUITNANG BAYAN 1(POB.)	5,960	7.24	6,691	7,362	7,937	8,383	50	70	85	100	3,345	5,154	6,747	8,383				
QUITNANG BAYAN 2(POB.)	5,490	6.67	6,163	6,782	7,312	7,722	47	65	85	100	2,897	4,408	6,215	7,722				
GULOD MALAYA	2,995	3.64	3,362	3,700	3,998	4,212	0	0	0	0	0	0	0	0				
MALANDAY	9,169	11.14	10,293	11,327	12,211	12,896	45	55	65	70	4,632	6,230	7,937	9,027				
MALY	6,350	7.71	7,128	7,844	8,457	8,931	40	50	60	70	2,851	3,922	5,074	6,252				
PINTONG BOCAWE	617	0.75	693	762	822	868	0	0	0	0	0	0	0	0				
SANTA ANA	7,418	9.01	8,327	9,164	9,879	10,433	55	70	85	100	4,580	6,415	8,397	10,433				
SANTO NINO	4,955	6.02	5,562	6,121	6,599	6,969	0	0	0	0	0	0	0	0				
SILANGAN	5,012	6.09	5,626	6,191	6,675	7,049	0	0	0	0	0	0	0	0				
SAN MATEO TOTAL	82,310	100	92,401	101,679	109,620	115,769	38	46	55	63	35,033	47,185	60,088	72,405				

FILE: SMTEOP

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 1995)

BARANGAY	POP. IN SERVICE AREA		INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP							
	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	TOTAL						
AMPID I, II	7,829	0	2	1	4,463	3,132	157	78	50	80	90	95	2,231	2,231	4,463	2,505	141	74	7,183
BANABA	0	0	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
DULONG BAYAN 1	2,599	64	34	2	1,664	884	52	0	50	80	90	95	832	832	1,664	707	47	0	2,418
DULONG BAYAN 2	3,581	54	43	3	1,934	1,540	107	0	50	80	90	95	967	967	1,934	1,232	97	0	3,262
GUIAYANG	2,718	56	40	4	1,522	1,087	109	0	50	80	90	95	761	761	1,522	870	98	0	2,490
GUIHWANG BAYAN 1 (POB.)	3,345	49	45	6	1,639	1,505	201	33	50	80	90	95	820	820	1,639	1,204	181	32	3,056
GUIHWANG BAYAN 2 (POB.)	2,897	44	50	5	1,275	1,448	145	29	50	80	90	95	637	637	1,275	1,159	130	28	2,551
GUJOD MALAYA	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
MALANDAY	4,632	52	45	3	2,408	2,084	139	0	50	80	90	95	1,204	1,204	2,408	1,667	125	0	4,201
MALY	2,851	58	37	4	1,654	1,055	114	29	50	80	90	95	827	827	1,654	844	103	27	2,628
PLITONG BOCANE	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
SANTA ANA	4,580	69	28	3	3,160	1,282	137	0	50	80	90	95	1,580	1,580	3,160	1,026	124	0	4,310
SANTO NIÑO	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
SILANGAN	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0
SAN MATEO TOTAL	35,033	56	40	3	19,719	14,018	1,161	169	50	80	90	95	9,859	9,859	19,719	11,214	1,045	161	32,138

FILE: SMTPOP95

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 2000)

BARANGAY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA BY INCOME GROUP						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP -----LOW-----					
		LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	DIRECT	PUR.F.	SUB.T.	MID	MID-HI	HI	TOTAL	
AMPID I, II	9,477	57	40	2	1	5,402	3,791	199	95	60	85	100	100	3,241	2,161	5,402	3,222	190	95	8,908					
BAMBARA	0	-	-	-	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
DULONG BAYAN 1	3,965	64	34	2	0	1,961	1,042	61	0	60	85	100	100	1,177	785	1,961	886	61	0	2,909					
DULONG BAYAN 2	4,926	54	43	3	0	2,660	2,118	148	0	60	85	100	100	1,556	1,064	2,660	1,800	148	0	4,608					
GUINAYANG	3,590	56	40	4	0	2,010	1,436	144	0	60	85	100	100	1,206	804	2,010	1,220	144	0	3,374					
GUITNANG BAYAN 1 (POB.)	5,154	49	45	6	1	2,525	2,319	309	52	60	85	100	100	1,515	1,010	2,525	1,971	309	52	4,857					
GUITNANG BAYAN 2 (POB.)	4,408	44	50	5	1	1,940	2,204	228	44	60	85	100	100	1,164	776	1,940	1,873	220	44	4,078					
GULOD MALAYA	0	-	-	-	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
HALARDAY	6,230	52	45	3	0	3,239	2,803	187	0	60	85	100	100	1,944	1,296	3,239	2,383	187	0	5,809					
MADY	3,922	58	37	4	1	2,275	1,451	197	39	60	85	100	100	1,365	910	2,275	1,234	197	39	3,704					
PINTONG BOCANE	0	-	-	-	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
SANTA ANA	6,415	69	28	3	0	4,426	1,796	192	0	60	85	100	100	2,656	1,770	4,426	1,527	192	0	6,145					
SANTO NIÑO	0	-	-	-	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
SILANGAN	0	-	-	-	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0					
SAN MATEO TOTAL	47,185	56	40	3	0	26,438	18,960	1,608	230	60	85	100	100	15,863	10,575	26,438	16,116	1,608	230	44,392					

FILE: SMTPOP00

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 2005)

BARANGAY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP										
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	DIRECT	PUB.F.	SUB.T.	MID	HI	TOTAL					
AMPID I, II	13,003	57	40	2	1	7,412	5,201	260	130	70	90	100	100	5,188	2,224	7,412	4,681	260	130	12,483	
BANABA	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
DULONG BAYAN 1	3,524	64	34	2	0	2,256	1,198	70	0	70	90	100	100	1,579	677	2,256	1,078	70	0	3,405	
DULONG BAYAN 2	4,998	54	43	3	0	2,699	2,149	150	0	70	90	100	100	1,889	810	2,699	1,934	150	0	4,783	
GUINAYANG	4,192	55	40	4	0	2,348	1,577	168	0	70	90	100	100	1,643	704	2,348	1,509	168	0	4,025	
GUINWANG BAYAN 1 (POB.)	8,747	49	45	6	1	3,306	3,036	405	67	70	90	100	100	2,314	992	3,306	2,732	405	67	6,511	
GUINWANG BAYAN 2 (POB.)	6,215	44	50	5	1	2,735	3,107	311	62	70	90	100	100	1,914	820	2,735	2,787	311	62	5,904	
GULOD MALAYA	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
MALANDAY	7,937	52	45	3	0	4,127	3,572	238	0	70	90	100	100	2,889	1,238	4,127	3,215	238	0	7,580	
MALY	5,074	58	37	4	1	2,943	1,877	203	51	70	90	100	100	2,060	883	2,943	1,630	203	51	4,836	
PINTONG BOCAWE	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
SANTA ANA	8,337	69	28	3	0	5,794	2,351	252	0	70	90	100	100	4,056	1,738	5,794	2,116	252	0	8,162	
SANTO NIÑO	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
SILANGAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
SAN MATEO TOTAL	60,088	56	40	3	1	33,619	24,170	2,057	310	70	90	100	100	23,533	10,086	33,619	21,783	2,057	310	57,739	

FILE: SHTPOP05

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (SAN MATEO, 2010)

BARANGAY	POP'N IN SERVICE AREA			INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP								
	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	DIRECT	SUB.F.	TOTAL						
AMPID I, II	15,684	57	40	2	1	8,946	6,278	314	157	80	100	100	100	7,157	1,789	8,946	6,278	314	157	15,684	
BANIRA	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
DULONG BAYAN 1	4,187	64	34	2	0	2,680	1,424	84	0	80	100	100	100	2,144	536	2,680	1,424	84	0	4,187	
DULONG BAYAN 2	5,938	54	43	3	0	3,207	2,553	178	0	80	100	100	100	2,553	61	3,207	2,553	178	0	5,938	
GUINAYANG	4,768	56	40	4	0	2,670	1,907	191	0	80	100	100	100	2,136	534	2,670	1,907	191	0	4,768	
GUINWANG BAYAN 1 (POB.)	8,383	49	45	6	1	4,108	3,772	503	84	80	100	100	100	3,286	822	4,108	3,772	503	84	8,467	
GUINWANG BAYAN 2 (POB.)	7,722	44	50	5	1	3,338	3,861	386	77	80	100	100	100	2,718	680	3,338	3,861	386	77	7,722	
GULOD MALAYA	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
MALANDAY	9,027	52	45	3	0	4,694	4,082	271	0	80	100	100	100	3,755	939	4,694	4,082	271	0	9,027	
MALEY	6,252	58	37	4	1	3,626	2,313	250	63	80	100	100	100	2,901	785	3,626	2,313	250	63	6,252	
PINTONG BOGAHE	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
SANTA ANA	10,433	69	28	3	0	7,199	2,921	313	0	80	100	100	100	5,759	1,440	7,199	2,921	313	0	10,433	
SANTO NIÑO	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
SILANGAN	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0
SAN MATEO TOTAL	72,405	56	40	3	1	40,527	29,032	2,489	381	80	100	100	100	32,422	8,105	40,527	29,032	2,489	381	72,489	

FILE: SHTPOP10

TABLE DOMESTIC WATER DEMAND (SAN MATEO, 1995)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)					
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	SUB.T.	TOTAL
AMPID I, II	2,231	2,231	4,463	74	157	39	191	224	269	7,183	350	87	437	479
BANABA	0	0	0	0	-	-	-	-	-	0	0	0	0	0
DULONG BAYAN 1	832	832	1,664	47	157	39	191	224	269	2,418	131	32	163	135
DULONG BAYAN 2	967	967	1,934	97	157	39	191	224	269	3,262	152	38	190	235
GUINAYANG	761	761	1,522	98	157	39	191	224	269	2,490	119	30	149	166
GUINANG BAYAN	820	820	1,639	181	157	39	191	224	269	3,056	129	32	161	230
GUINANG BAYAN	637	637	1,275	130	157	39	191	224	269	2,591	100	25	125	221
GULOD MALAYA	0	0	0	0	-	-	-	-	-	0	0	0	0	0
MALANDAY	1,204	1,204	2,409	125	157	39	191	224	269	4,201	189	47	236	318
MALY	827	827	1,654	103	157	39	191	224	269	2,628	130	32	162	161
PINTONG BOCAWE	0	0	0	0	-	-	-	-	-	0	0	0	0	0
SANTA ANA	1,580	1,580	3,160	124	157	39	191	224	269	4,310	248	62	310	196
SANTO NINO	0	0	0	0	-	-	-	-	-	0	0	0	0	0
SILANGAN	0	0	0	0	-	-	-	-	-	0	0	0	0	0
SAN MATEO TOTAL	9,859	9,859	19,719	1,045	157	39	191	224	269	32,138	1,546	385	1,932	2,142
				161									234	43
														967

FILE: SNTDOM95

TABLE DOMESTIC WATER DEMAND (SAN MATEO, 2000)

BARANGAY	SERVED POPULATION BY INCOME GROUP					UNIT CONSUMPTION (LPCD)					WATER DEMAND BY INCOME GROUP (M ³ /D)								
	DIRECT	PUB. F.	SUB. T.	MID	HI	TOTAL	DIRECT	PUB. F.	MID	MID-HI	HI	DIRECT	PUB. F.	SUB. T.	MID	MID-HI	HI	TOTAL	
AMPID I, II	3,241	2,161	5,402	3,222	190	95	8,908	169	42	205	241	290	548	91	638	661	46	27	1,372
BAHABA	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
DULONG BAYAN 1	1,177	785	1,961	886	61	0	2,909	169	42	205	241	290	199	33	232	182	15	0	428
DULONG BAYAN 2	1,596	1,064	2,660	1,800	148	0	4,608	169	42	205	241	290	270	45	314	369	36	0	719
GUINAYANG	1,206	804	2,010	1,220	144	0	3,374	169	42	205	241	290	204	34	238	250	35	0	522
GUITNANG BAYAN	1,515	1,010	2,525	1,971	309	52	4,857	169	42	205	241	290	256	42	298	404	75	15	792
GUITNANG BAYAN	1,164	776	1,940	1,873	220	44	4,078	169	42	205	241	290	197	33	229	384	53	13	679
GULOD MALAYA	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
MALANDAY	1,944	1,296	3,239	2,383	187	0	5,809	169	42	205	241	290	328	54	383	488	45	0	916
MALIY	1,365	910	2,275	1,234	157	39	3,704	169	42	205	241	290	231	38	269	253	38	11	571
PINTONG BOCANE	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
SANTA ANA	2,656	1,770	4,426	1,527	192	0	6,145	169	42	205	241	290	449	74	523	313	46	0	882
SANTO NINO	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
SILANGAN	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
SAN MATEO TOTAL	15,863	10,575	26,438	16,116	1,608	230	44,392	169	42	205	241	290	2,681	444	3,125	3,304	388	67	6,883

FILE: SMTDOM00

TABLE DOMESTIC WATER DEMAND (SAN MATEO, 2005)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LECD)				WATER DEMAND BY INCOME GROUP (M3/D)											
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL			
AMPID I, II	5,188	2,224	7,412	4,681	260	130	260	312	182	44	221	260	312	944	98	1,042	1,035	68	41	2,185
BANABA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DULONG BAYAN 1	1,579	877	2,256	1,078	70	0	260	312	182	44	221	260	312	287	30	317	238	18	0	574
DULONG BAYAN 2	1,888	810	2,699	1,934	150	0	260	312	182	44	221	260	312	344	36	379	427	39	0	846
GUINAYANG	1,643	704	2,348	1,509	168	0	260	312	182	44	221	260	312	299	31	330	334	44	0	707
GUIYANG BAYAN	2,314	992	3,306	2,732	405	67	260	312	182	44	221	260	312	421	44	465	604	105	21	1,195
GUIYANG BAYAN	1,914	820	2,735	2,737	311	62	260	312	182	44	221	260	312	348	36	384	618	81	19	1,103
GULOD MALAYA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALANDAY	2,859	1,238	4,127	3,215	238	0	260	312	182	44	221	260	312	526	54	580	710	62	0	1,353
MALAY	2,050	883	2,943	1,690	203	51	260	312	182	44	221	260	312	375	39	414	373	53	16	856
PINTONG BOCANE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SANTA ANA	4,056	1,738	5,794	2,116	252	0	260	312	182	44	221	260	312	738	76	815	468	65	0	1,348
SANTO NINO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SILANGAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAN MATEO TOTAL	23,533	10,086	33,619	21,753	2,057	310	260	312	182	44	221	260	312	4,283	444	4,727	4,807	535	97	10,166

FILE: SMTD0405

TABLE DOMESTIC WATER DEMAND (SAN MATEO, 2010)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	DIRECT	SUB.T.	MID	HI	DIRECT	MID	MID-HI	HI	DIRECT	MID	MID-HI	HI	TOTAL						
AMPID I, II	7,157	1,789	8,946	6,278	314	157	15,694	196	46	238	280	336	1,493	82	1,485	1,494	88	53	3,120
BANABA	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
DULONG BAYAN 1	2,144	536	2,680	1,424	84	0	4,187	196	46	238	280	336	420	25	445	339	23	0	807
DULONG BAYAN 2	2,555	641	3,207	2,553	178	0	5,938	196	46	238	280	336	503	30	532	608	50	0	1,190
GUINAYANG	2,136	534	2,670	1,907	191	0	4,768	196	46	238	280	336	419	25	443	454	53	0	951
GUITNANG BAYAN	3,286	822	4,108	3,772	503	84	8,467	196	46	238	280	336	644	38	682	898	141	28	1,749
GUITNANG BAYAN	2,718	680	3,398	3,861	366	77	7,722	196	46	238	280	336	533	31	564	919	108	26	1,617
GULOD MALAYA	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
MALANDAY	3,755	939	4,694	4,062	271	0	9,027	196	46	238	280	336	736	43	779	967	76	0	1,822
MALY	2,901	725	3,626	2,313	250	63	6,252	196	46	238	280	336	569	33	602	551	70	21	1,244
PINTONG BOCANE	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
SANTA ANA	5,759	1,440	7,199	2,921	313	0	10,433	196	46	238	280	336	1,129	66	1,195	895	88	0	1,978
SANTO NINO	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
SILANGAN	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0
SAN MATEO TOTAL:	32,422	8,105	40,527	29,092	2,489	381	72,469	196	46	238	280	336	6,355	873	6,727	6,924	697	128	14,476

FILE: SMTDOM10

TABLE COMMERCIAL WATER DEMAND (SAN MATEO)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS					UNIT CONSUMPTION (M3/D)					COMMERCIAL WATER DEMAND (M3/D)				
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	
AMPID I, II	7,829	9,477	13,003	15,694	79	1.40	1.50	1.75	2.50	138	179	287	494	1.45	1.60	1.80	2.00	200	287	515	989	
BAMABA	0	0	0	0	79	1.40	1.50	1.75	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
DULONG BAYAN 1	2,599	3,065	3,524	4,187	79	1.40	1.50	1.75	2.50	46	58	78	132	1.45	1.60	1.80	2.00	66	93	140	284	
DULONG BAYAN 2	3,581	4,926	4,998	5,938	79	1.40	1.50	1.75	2.50	63	93	110	187	1.45	1.60	1.80	2.00	92	149	198	374	
GUINAYANG	2,718	3,590	4,192	4,768	79	1.40	1.50	1.75	2.50	48	68	92	150	1.45	1.60	1.80	2.00	70	109	166	300	
GUITNANG BAYAN	3,945	5,154	6,747	8,383	79	1.40	1.50	1.75	2.50	59	97	149	264	1.45	1.60	1.80	2.00	86	156	288	528	
GUITNANG BAYAN	2,897	4,408	6,215	7,722	79	1.40	1.50	1.75	2.50	51	83	137	243	1.45	1.60	1.80	2.00	74	133	247	486	
GULOD MALAYA	0	0	0	0	78	1.40	1.50	1.75	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
MALANDAY	4,632	6,230	7,937	9,027	79	1.40	1.50	1.75	2.50	82	118	175	284	1.45	1.60	1.80	2.00	118	188	315	569	
MALY	2,851	3,922	5,074	6,252	79	1.40	1.50	1.75	2.50	50	74	112	197	1.45	1.60	1.80	2.00	73	119	201	394	
PINTONG BOCANE	0	0	0	0	79	1.40	1.50	1.75	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
SANTA ANA	4,580	6,415	8,397	10,433	79	1.40	1.50	1.75	2.50	81	121	185	329	1.45	1.60	1.80	2.00	117	194	333	637	
SANTO NINO	0	0	0	0	79	1.40	1.50	1.75	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
SILANGAN	0	0	0	0	79	1.40	1.50	1.75	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
SAN MATEO TOTAL	35,033	47,185	60,088	72,405	79	1.40	1.50	1.75	2.50	618	892	1,325	2,281	1.45	1.60	1.80	2.00	896	1,427	2,385	4,582	

FILE: SMTCOMAL

TABLE INDUSTRIAL WATER DEMAND (SAN MATEO)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS					UNIT CONSUMPTION (MS/D)					INDUSTRIAL WATER DEMAND (MS/D)				
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	
AMPID I, II	7,829	9,477	13,003	15,694	625	2.15	2.50	2.75	3.00	27	38	57	75	1.45	1.60	1.80	2.00	39	61	103	151	
BANABA	0	0	0	0	625	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
DULONG BAYAN 1	2,599	3,065	3,524	4,187	625	2.15	2.50	2.75	3.00	9	12	16	20	1.45	1.60	1.80	2.00	13	20	28	40	
DULONG BAYAN 2	3,581	4,926	4,998	5,938	625	2.15	2.50	2.75	3.00	12	20	22	29	1.45	1.60	1.80	2.00	18	32	40	57	
GUINAYANG	2,718	3,590	4,182	4,768	625	2.15	2.50	2.75	3.00	9	14	18	23	1.45	1.60	1.80	2.00	14	23	33	46	
GUINANG BAYAN	3,345	5,154	6,747	8,383	625	2.15	2.50	2.75	3.00	12	21	30	40	1.45	1.60	1.80	2.00	17	33	53	80	
GUINANG BAYAN	2,897	4,408	6,215	7,722	625	2.15	2.50	2.75	3.00	10	18	27	37	1.45	1.60	1.80	2.00	14	28	49	74	
GULOB MALAYA	0	0	0	0	625	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
MALANDAY	4,632	6,230	7,937	9,027	625	2.15	2.50	2.75	3.00	15	25	35	43	1.45	1.60	1.80	2.00	23	40	63	87	
MALY	2,851	3,922	5,074	6,252	625	2.15	2.50	2.75	3.00	10	16	22	30	1.45	1.60	1.80	2.00	14	25	40	60	
PINTONG BOCANE	0	0	0	0	625	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
SANTA ANA	4,580	6,415	8,397	10,433	625	2.15	2.50	2.75	3.00	16	26	37	50	1.45	1.60	1.80	2.00	23	41	67	100	
SANTO NINO	0	0	0	0	625	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
SILANGAN	0	0	0	0	625	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0	
SAN MATEO TOTAL	35,033	47,185	60,088	72,405	625	2.15	2.50	2.75	3.00	121	189	264	348	1.45	1.60	1.80	2.00	175	302	476	695	

FILE: SMTINDAL

TABLE INSTITUTIONAL WATER DEMAND (SAN MATEO)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M3/D)			INSTITUTIONAL WATER DEMAND (M3/D)						
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010				
AMPID I, II	7,829	9,477	13,003	15,694	2,000	4	5	7	8	5.25	6.00	6.75	7.50	21	30	47	60
BANABA	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
DULONG BAYAN 1	2,599	3,065	3,524	4,187	2,000	1	2	2	2	5.25	6.00	6.75	7.50	5	12	14	15
DULONG BAYAN 2	3,581	4,926	4,998	5,938	2,000	2	2	2	3	5.25	6.00	6.75	7.50	11	12	14	23
GUINAYANG	2,719	3,590	4,192	4,768	2,000	1	2	2	2	5.25	6.00	6.75	7.50	5	12	14	15
GUINANG BAYAN	3,345	5,154	6,747	8,383	2,000	2	3	3	4	5.25	6.00	6.75	7.50	11	18	20	30
GUINANG BAYAN	2,897	4,408	6,215	7,722	2,000	1	2	3	4	5.25	6.00	6.75	7.50	5	12	20	30
GULOD MALAYA	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
MALANDAY	4,632	6,230	7,937	9,027	2,000	2	3	4	5	5.25	6.00	6.75	7.50	11	18	27	38
MALY	2,851	3,922	5,074	6,252	2,000	1	2	3	3	5.25	6.00	6.75	7.50	5	12	20	23
PINTONG BOCANE	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
SANTA ANA	4,580	6,415	8,397	10,433	2,000	2	3	4	5	5.25	6.00	6.75	7.50	11	18	27	38
SANTO NIÑO	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
SILANGAN	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.50	0	0	0	0
SAN MATEO TOTAL	35,033	47,165	60,088	72,405	2,000	16	24	30	36	5.25	6.00	6.75	7.50	84	144	203	270

FILE: SMTINSAL

TABLE WATER DEMAND SUMMARY (MONTALBAN)
(UNIT: M3/D)

SECTORS	1995	2000	2005	2010
DOMESTIC	3,903	5,644	7,538	9,288
COMMERCIAL	570	903	1,402	1,933
INDUSTRIAL	69	111	168	227
INSTITUTIONAL	121	168	223	259
SUB TOTAL	4,662	6,826	9,331	11,708
UNACCOUNTED-FOR WATER	1,998	2,925	3,110	3,903
(%)	30	30	25	25
TOTAL WATER DEMAND	6,660	9,751	12,442	15,610
SERVED POPULATION	39,620	52,145	65,145	75,318
PER CAPITA CONSUMPTION				
DOMESTIC C.	0.098	0.108	0.116	0.123
TOTAL C.	0.118	0.131	0.143	0.155

FILE: DEMSUMMO

TABLE POPULATION PROJECTION FOR MONTALBAN

BARANGAY	CENSUS		BARANGAY POPULATION					SERVICE AREA %					SERVICE AREA POPULATION						
	1990	(%)	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010	
				PROJECTED															
BALITE (POB.)	6,182	9.22	6,983	7,727	8,373	8,877	80	90	95	100	5,586	6,954	7,954	8,877					
BURGOS	15,483	23.08	17,489	19,352	20,970	22,234	70	80	90	90	12,243	15,482	18,873	20,010					
GERONIMO	3,365	5.02	3,801	4,206	4,558	4,832	90	100	100	100	3,421	4,206	4,558	4,832					
MACABUD	2,021	3.01	2,283	2,526	2,737	2,902	0	0	0	0	0	0	0	0					
MANGANAN	5,862	8.74	6,622	7,327	7,939	8,418	50	60	70	80	3,311	4,396	5,558	6,734					
MASCAP	1,645	2.45	1,858	2,056	2,228	2,362	0	0	0	0	0	0	0	0					
PURAY	1,311	1.95	1,481	1,639	1,776	1,883	0	0	0	0	0	0	0	0					
ROSARIO	3,530	5.26	3,987	4,412	4,781	5,069	60	70	80	100	2,392	3,089	3,825	5,069					
SAN ISIDRO	1,905	2.84	2,152	2,381	2,580	2,736	70	70	80	80	1,506	1,567	2,064	2,188					
SAN JOSE	15,222	22.69	17,195	19,026	20,617	21,859	70	75	80	80	12,036	14,270	16,493	17,487					
SAN RAFAEL	10,548	15.73	11,915	13,184	14,286	15,147	30	40	60	70	3,574	5,274	8,572	10,603					
MONTALBAN TOTAL	67,074	100	75,766	83,837	90,845	96,318	58	66	75	79	44,070	55,337	67,897	75,801					

FILE: MONPOP

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 1995)

BARANGAY	POP'N IN SERVICE AREA			INCOME GROUP DISTRIBUTION (%)						POPULATION IN SERVICE AREA						WILLINGNESS TO CONNECT FACTOR (%)						SERVED POPULATION BY INCOME GROUP										
	AREA			LOW			MID			MID-HI			HI			LOW			MID			MID-HI			HI			TOTAL				
	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	TOTAL	
BALITE (POB.)	23	25	35	17	1,285	1,397	1,955	950	50	80	90	95	642	642	1,285	1,117	1,760	902	5,064													
BURGOS	34	45	18	3	4,162	5,509	2,404	367	50	80	90	95	2,081	2,081	4,162	4,407	1,983	349	10,902													
GERONIMO	35	22	24	9	1,197	753	821	308	50	80	90	95	599	599	1,197	602	739	292	2,631													
MACABUD	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0													
MANGGAHAN	40	35	18	7	1,324	1,159	596	232	50	80	90	95	662	662	1,324	927	536	220	3,008													
MASCAP	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0													
PURAY	0	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0													
ROSARIO	35	40	20	5	637	957	478	120	70	80	90	95	586	586	251	837	766	431	2,147													
SAN ISIDRO	41	30	24	5	618	452	362	75	70	80	90	95	432	432	185	618	362	325	1,376													
SAN JOSE	31	25	30	14	3,731	3,009	3,611	1,685	50	80	90	95	1,866	1,866	3,731	2,407	3,250	1,601	10,989													
SAN RAFAEL	31	38	18	13	1,108	1,358	643	465	50	80	100	100	554	554	1,108	1,087	643	465	3,303													
MONTALBAN TOTAL	44,070	32	33	24	10	14,263	14,593	10,670	4,201	52	80	91	96	7,423	6,841	14,263	11,675	9,668	4,014	39,620												

FILE: MONPOP95

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 2000)

BARANGAY	POP'N IN SERVICE AREA			INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP						
	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	DIRECT	SUB.T.	MID	MID-HI	HI	TOTAL	
BALITE (POB.)	6,954	23	25	35	17	1,599	1,739	2,434	1,182	60	85	100	100	960	640	1,478	2,434	1,182	6,684
BURGOS	15,482	34	45	18	3	5,264	6,967	2,787	464	60	85	100	100	3,158	2,196	5,922	2,787	464	14,437
GERONIMO	4,206	35	22	24	9	1,472	925	1,009	379	60	85	100	100	883	589	1,472	787	1,009	3,647
MACABUD	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0
MANGGAHAN	4,396	40	35	18	7	1,758	1,539	791	308	60	85	100	100	1,055	703	1,308	791	308	4,165
MASCAP	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0
PURAY	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0
ROSARIO	3,089	35	40	20	5	1,081	1,235	618	154	75	85	100	100	811	270	1,081	1,050	618	2,903
SAN ISIDRO	1,667	41	30	24	5	683	500	400	83	75	85	100	100	513	171	683	425	400	1,592
SAN JOSE	14,270	31	25	30	14	4,424	3,567	4,281	1,998	60	85	100	100	2,654	1,769	4,424	3,032	4,281	13,735
SAN RAFAEL	5,274	31	38	18	13	1,635	2,004	949	686	60	85	100	100	981	654	1,703	949	686	4,973
MONTALBAN TOTAL	55,337	32	33	24	9	17,917	18,476	13,269	5,254	61	85	100	100	11,015	6,902	17,917	15,706	13,269	52,145

FILE: MONFOPO0

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 2005)

BARANGAY	POP'N IN SERVICE AREA			INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA BY INCOME GROUP			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP							
	AREA	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	MID	MID-HI	HI	LOW	SUB.P.	MID	MID-HI	HI	TOTAL	
BALITE (POB.)	7,954	23	25	35	17	1,829	1,989	2,784	1,352	70	90	100	100	1,281	549	1,829	2,784	1,352	7,755	
BURGOS	18,373	34	45	18	3	6,417	8,493	3,997	566	70	90	100	100	4,492	1,825	6,417	7,644	3,397	18,024	
GERONIMO	4,558	35	22	24	9	1,595	1,003	1,094	410	70	90	100	100	1,117	479	1,595	302	1,094	4,002	
MACABUD	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	
MANGGAHAN	5,558	40	35	18	7	2,223	1,945	1,000	389	70	90	100	100	1,556	667	2,223	1,751	1,000	389	5,363
MASCAP	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	
PURAY	0	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	
ROSARIO	3,825	35	40	20	5	1,339	1,530	765	191	80	90	100	100	1,071	268	1,339	1,377	765	191	3,672
SAN ISIDRO	2,064	41	30	24	5	846	619	495	103	80	90	100	100	677	169	846	557	495	103	2,002
SAN JOSE	16,493	31	25	30	14	5,113	4,123	4,948	2,309	70	90	100	100	3,579	1,534	5,113	3,711	4,948	2,309	16,081
SAN RAFAEL	8,572	31	38	18	13	2,657	3,257	1,543	1,114	70	90	100	100	1,860	797	2,657	2,932	1,543	1,114	8,246
MONTALBAN TOTAL	67,897	32	34	24	9	22,020	22,959	16,027	6,485	71	90	100	100	15,632	6,387	22,020	20,663	16,027	6,435	65,145

FILE: MONPOF05

TABLE POPULATION IN SERVICE AREA AND SERVED POPULATION (MONTALBAN, 2010)

BARANGAY	POP'N IN SERVICE AREA	INCOME GROUP DISTRIBUTION (%)			POPULATION IN SERVICE AREA			WILLINGNESS TO CONNECT FACTOR (%)			SERVED POPULATION BY INCOME GROUP								
		LOW	MID	HI	LOW	MID	HI	LOW	MID	HI	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL		
BALITE (FOR.)	8,877	23	25	35	17	2,042	2,219	3,107	1,509	80	100	100	1,633	408	2,042	2,219	3,107	1,509	8,877
BURGOS	20,010	34	45	18	3	6,803	9,005	3,602	600	80	100	100	5,443	1,361	6,803	9,005	3,602	600	20,010
GERONIMO	4,832	35	22	24	9	1,691	1,063	1,160	435	80	100	100	1,353	336	1,691	1,063	1,160	435	4,832
MACABUD	0	-	-	-	-	0	0	0	0	-	-	-	0	0	0	0	0	0	0
MANGAHAN	6,734	40	35	18	7	2,694	2,357	1,212	471	80	100	100	2,155	539	2,694	2,357	1,212	471	6,734
MASCAP	0	-	-	-	-	0	0	0	0	-	-	-	0	0	0	0	0	0	0
PURAY	0	-	-	-	-	0	0	0	0	-	-	-	0	0	0	0	0	0	0
ROSARIO	5,069	35	40	20	5	1,774	2,028	1,014	253	85	100	100	1,508	266	1,774	2,028	1,014	253	5,069
SAN ISIDRO	2,188	41	30	24	5	897	657	525	109	85	100	100	763	135	897	657	525	109	2,188
SAN JOSE	17,487	31	25	30	14	5,421	4,372	5,246	2,448	80	100	100	4,337	1,084	5,421	4,372	5,246	2,448	17,487
SAN RAFAEL	10,603	31	38	18	13	3,287	4,029	1,909	1,378	80	100	100	2,629	657	3,287	4,029	1,909	1,378	10,603
MONTALBAN TOTAL	75,601	32	34	23	10	24,609	25,729	17,774	7,205	81	100	100	19,821	4,788	24,609	25,729	17,774	7,205	75,318

FILE: MONPOP10

TABLE DOMESTIC WATER DEMAND (MONTALBAN, 1985)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LECD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	DIRECT	PUB.F.	SUB.T.	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	DIRECT	PUB.F.	SUB.T.	TOTAL						
BALITE (POB.)	642	1,285	1,117	1,780	902	5,064	86	39	104	123	148	55	25	80	116	216	134	546	
BURGOS	2,081	4,162	4,407	1,983	349	10,902	86	39	104	123	148	179	81	260	458	244	52	1,014	
GERONIMO	599	1,197	602	739	292	2,831	86	39	104	123	148	51	23	75	63	91	43	272	
MACABUD	0	0	0	0	0	0	86	39	104	123	148	0	0	0	0	0	0	0	
MANGAHAN	662	1,324	927	536	220	3,008	86	39	104	123	148	57	26	83	96	66	33	278	
MASCAP	0	0	0	0	0	0	86	39	104	123	148	0	0	0	0	0	0	0	
PURAY	0	0	0	0	0	0	86	39	104	123	148	0	0	0	0	0	0	0	
ROSARIO	586	251	837	766	431	114	2,147	86	39	104	123	148	50	10	60	80	53	17	210
SAN ISIDRO	432	185	618	362	325	72	1,376	86	39	104	123	148	37	7	44	38	40	11	133
SAN JOSE	1,866	3,731	2,407	3,250	1,601	10,989	86	39	104	123	148	160	73	233	250	400	237	1,120	
SAN RAFAEL	554	1,108	1,087	643	465	3,303	86	39	104	123	148	48	22	69	113	79	69	330	
MONTALBAN TOTAL	7,423	6,841	14,263	11,675	9,668	4,014	39,620	86	39	104	123	148	638	267	905	1,214	1,189	594	3,903

FILE: MONDOM95

TABLE DOMESTIC WATER DEMAND (MONTALBAN, 2000)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)										
	LOW		MID		MID-HI		HI		DIRECT PUB.F.		SUB.T.		TOTAL						
	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	TOTAL						
BALITE (POB.)	960	640	1,599	1,478	2,434	1,182	6,694	92	42	112	132	158	88	27	115	166	321	187	789
BURGOS	3,158	2,106	5,264	5,922	2,787	464	14,437	92	42	112	132	158	291	88	379	663	368	73	1,483
GERONIMO	883	589	1,472	787	1,009	379	3,647	92	42	112	132	158	81	25	106	88	133	60	387
MACABUD	0	0	0	0	0	0	0	92	42	112	132	158	0	0	0	0	0	0	0
MANGGAHAN	1,055	703	1,758	1,308	791	308	4,165	92	42	112	132	158	97	30	127	146	104	49	426
MASCAP	0	0	0	0	0	0	0	92	42	112	132	158	0	0	0	0	0	0	0
PURAY	0	0	0	0	0	0	0	92	42	112	132	158	0	0	0	0	0	0	0
ROSARIO	811	270	1,081	1,050	618	154	2,903	92	42	112	132	158	75	11	86	118	82	24	309
SAN ISIDRO	513	171	683	425	400	83	1,592	92	42	112	132	158	47	7	54	48	53	13	168
SAN JOSE	2,654	1,769	4,424	3,032	4,281	1,998	13,735	92	42	112	132	158	244	74	318	340	565	316	1,539
SAN RAZAEL	981	654	1,635	1,703	949	686	4,973	92	42	112	132	158	90	27	118	191	125	108	542
MONTALBAN TOTAL	11,015	6,902	17,917	15,705	13,269	5,254	52,145	92	42	112	132	158	1,013	290	1,303	1,759	1,752	830	5,644

FILE: MONDOM00

TABLE DOMESTIC WATER DEMAND (MONTALBAN, 2005)

BARANGAY	SERVED POPULATION BY INCOME GROUP				UNIT CONSUMPTION (LPCD)				WATER DEMAND BY INCOME GROUP (M3/D)				TOTAL				
	DIRECT	PUB.F.	SUB.T.	HI	DIRECT	PUB.F.	MID	HI	DIRECT	PUB.F.	SUB.T.	MID		HI			
BALITE (POB.)	1,281	549	1,829	1,352	7,755	97	44	118	139	167	124	24	148	211	387	226	972
BURGOS	4,492	1,925	6,417	566	18,024	97	44	118	139	167	436	35	520	902	472	95	1,989
GERONIMO	1,117	479	1,595	410	4,002	97	44	118	139	167	108	21	129	106	152	69	456
MAGABUD	0	0	0	0	0	97	44	118	139	167	0	0	0	0	0	0	0
MANGGAHAN	1,556	667	2,223	389	5,363	97	44	118	139	167	151	29	180	207	139	65	591
MASCAP	0	0	0	0	0	97	44	118	139	167	0	0	0	0	0	0	0
PURAY	0	0	0	0	0	97	44	118	139	167	0	0	0	0	0	0	0
ROSARIO	1,071	268	1,339	191	3,672	97	44	118	139	167	104	12	116	162	106	32	416
SAN ISIDRO	677	169	846	103	2,002	97	44	118	139	167	66	7	73	66	89	17	225
SAN JOSE	3,579	1,534	5,113	4,948	16,081	97	44	118	139	167	347	67	415	438	688	386	1,926
SAN RAFAEL	1,860	797	2,657	1,114	8,246	97	44	118	139	167	180	35	216	346	214	186	962
MONTALBAN TOTAL:	15,632	6,387	22,020	20,663	65,145	97	44	118	139	167	1,516	281	1,787	2,438	2,228	1,075	7,538

FILE: MONDOM05

TABLE DOMESTIC WATER DEMAND (MONTALBAN, 2010)

BARANGAY	SERVED POPULATION BY INCOME GROUP						UNIT CONSUMPTION (LPCD)						WATER DEMAND BY INCOME GROUP (M3/D)					
	DIRECT	SUB.T.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	MID	MID-HI	HI	TOTAL	DIRECT	PUB.F.	SUB.T.	MID	MID-HI	HI
BALITE (POB.)	1,633	408	2,042	3,107	1,509	8,877	102	46	124	146	175	167	19	185	275	454	264	1,178
BURGOS	5,443	1,361	6,803	3,602	600	20,010	102	46	124	146	175	555	63	618	1,117	526	105	2,365
GERONIMO	1,353	338	1,691	1,160	435	4,349	102	46	124	146	175	138	16	154	132	169	76	531
MACABUD	0	0	0	0	0	0	102	46	124	146	175	0	0	0	0	0	0	0
MANGAHAN	2,155	539	2,694	1,212	471	6,734	102	46	124	146	175	220	25	245	292	177	82	796
MASCAP	0	0	0	0	0	0	102	46	124	146	175	0	0	0	0	0	0	0
PURAY	0	0	0	0	0	0	102	46	124	146	175	0	0	0	0	0	0	0
ROSARIO	1,508	266	1,774	2,028	1,014	5,069	102	46	124	146	175	154	12	166	251	148	44	610
SAN ISIDRO	763	135	897	525	109	2,188	102	46	124	146	175	78	6	84	81	77	19	261
SAN JOSE	4,337	1,084	5,421	4,372	2,448	17,487	102	46	124	146	175	442	50	492	542	766	428	2,229
SAN RAFAEL	2,629	657	3,287	1,909	1,378	10,603	102	46	124	146	175	268	30	298	500	279	241	1,318
MONTALBAN TOTAL:	19,921	4,788	24,609	25,729	17,774	75,318	102	46	124	146	175	2,022	220	2,242	3,190	2,585	1,261	9,288

FILE: MONDOM10

TABLE COMMERCIAL WATER DEMAND (MONTALBAN)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN.'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS			UNIT CONSUMPTION (MS/P)			COMMERCIAL WATER DEMAND (MS/D)						
	1995	2000	2010		1995	2000	2010	1995	2000	2010	1995	2000	2010	1995	2000	2010				
BALITE (POB.)	5,586	6,954	8,877	196	1.75	2.00	2.25	2.50	50	71	91	113	1.45	1.60	1.80	2.00	72	113	164	226
BURGOS	12,243	15,482	20,010	196	1.75	2.00	2.25	2.50	109	158	217	255	1.45	1.60	1.80	2.00	153	253	390	510
GERONIMO	3,421	4,206	4,932	196	1.75	2.00	2.25	2.50	31	43	52	62	1.45	1.60	1.80	2.00	44	69	94	123
MACABUD	0	0	0	196	1.75	2.00	2.25	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0
MANGGAHAN	3,311	4,356	6,734	196	1.75	2.00	2.25	2.50	30	45	64	86	1.45	1.60	1.80	2.00	43	72	115	172
MASCAP	0	0	0	196	1.75	2.00	2.25	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0
PURAY	0	0	0	196	1.75	2.00	2.25	2.50	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0
ROSARIO	2,392	3,089	5,069	196	1.75	2.00	2.25	2.50	21	32	44	65	1.45	1.60	1.80	2.00	31	50	79	129
SAN ISIDRO	1,506	1,667	2,188	196	1.75	2.00	2.25	2.50	13	17	24	28	1.45	1.60	1.80	2.00	19	27	43	56
SAN JOSE	12,036	14,270	17,487	196	1.75	2.00	2.25	2.50	107	146	189	223	1.45	1.60	1.80	2.00	156	233	341	446
SAN RAFAEL	3,574	5,274	10,603	196	1.75	2.00	2.25	2.50	32	54	98	135	1.45	1.60	1.80	2.00	46	86	177	270
MONTALBAN TOTAL	44,070	55,337	75,801	196	1.75	2.00	2.25	2.50	383	564	779	966	1.45	1.60	1.80	2.00	570	903	1,402	1,933

FILE: MONCOMAL

TABLE INDUSTRIAL WATER DEMAND (MONTALBAN)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN.'N	DENSITY INCREASE COEFFICIENT			NUMBER OF CONNECTIONS			UNIT CONSUMPTION (M ³ /D)			INDUSTRIAL WATER DEMAND (M ³ /D)						
	1995	2000	2010		1995	2000	2010	1995	2000	2010	1995	2000	2010	1995	2000	2010				
BALITE (POB.)	5,586	6,954	8,877	2,000	2.15	2.50	2.75	3.00	6	9	11	13	1.45	1.60	1.80	2.00	9	14	20	27
BURGOS	12,243	15,482	20,010	2,000	2.15	2.50	2.75	3.00	13	19	26	30	1.45	1.60	1.80	2.00	19	31	47	60
GERONIMO	3,421	4,206	4,832	2,000	2.15	2.50	2.75	3.00	4	5	6	7	1.45	1.60	1.80	2.00	5	8	11	14
MACARUD	0	0	0	2,000	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0
MANGGABAN	3,311	4,386	6,734	2,000	2.15	2.50	2.75	3.00	4	5	8	10	1.45	1.60	1.80	2.00	5	9	14	20
MASCAP	0	0	0	2,000	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0
PURAY	0	0	0	2,000	2.15	2.50	2.75	3.00	0	0	0	0	1.45	1.60	1.80	2.00	0	0	0	0
ROSARIO	2,392	3,089	5,069	2,000	2.15	2.50	2.75	3.00	3	4	5	8	1.45	1.60	1.80	2.00	4	6	9	15
SAN ISIDRO	1,506	1,667	2,188	2,000	2.15	2.50	2.75	3.00	2	2	3	3	1.45	1.60	1.80	2.00	2	3	5	7
SAN JOSE	12,036	14,270	17,487	2,000	2.15	2.50	2.75	3.00	13	18	23	26	1.45	1.60	1.80	2.00	19	29	41	52
SAN RAFAEL	3,574	5,274	10,803	2,000	2.15	2.50	2.75	3.00	4	7	12	16	1.45	1.60	1.80	2.00	6	11	21	32
MONTALBAN TOTAL:	44,070	55,337	67,897	2,000	2.15	2.50	2.75	3.00	47	59	93	114	1.45	1.60	1.80	2.00	69	111	168	227

FILE: MONINDAL

TABLE INSTITUTIONAL WATER DEMAND (MONTALBAN)

BARANGAY	POPULATION IN SERVICE AREA			DENSITY PER CONN'N	NUMBER OF CONNECTIONS				UNIT CONSUMPTION (M3/D)				INSTITUTIONAL WATER DEMAND (M3/D)				
	1995	2000	2005		2010	1995	2000	2005	2010	1995	2000	2005	2010	1995	2000	2005	2010
BALITE (POB.)	5,586	6,954	7,954	8,877	2,000	3	3	4	4	5.25	6.00	6.75	7.00	16	18	27	28
BURGOS	12,243	15,482	18,873	20,010	2,000	6	8	9	10	5.25	6.00	6.75	7.00	32	48	61	70
GERONIMO	3,421	4,206	4,558	4,832	2,000	2	2	2	2	5.25	6.00	6.75	7.00	11	12	14	14
MACABUD	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.00	0	0	0	0
MANGGAHAN	3,311	4,395	5,558	6,734	2,000	2	2	3	3	5.25	6.00	6.75	7.00	11	12	20	21
MASCAP	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.00	0	0	0	0
PURAY	0	0	0	0	2,000	0	0	0	0	5.25	6.00	6.75	7.00	0	0	0	0
ROSARIO	2,392	3,089	3,825	5,069	2,000	1	2	2	3	5.25	6.00	6.75	7.00	5	12	14	21
SAN ISIDRO	1,506	1,667	2,064	2,188	2,000	1	1	1	1	5.25	6.00	6.75	7.00	5	6	7	7
SAN JOSE	12,036	14,270	16,493	17,487	2,000	6	7	8	9	5.25	6.00	6.75	7.00	32	42	54	63
SAN RAFAEL	3,574	5,274	8,572	10,603	2,000	2	3	4	5	5.25	6.00	6.75	7.00	11	18	27	35
MONTALBAN TOTAL	44,070	55,337	67,897	75,801	2,000	23	28	33	37	5.25	6.00	6.75	7.00	121	168	223	259

FILE: MONINSAL

APPENDIX F

HYDRAULIC ANALYSIS
ON DISTRIBUTION NETWORK

LIST OF TABLE

	PAGE
APPENDIX F HYDRAULIC ANALYSIS ON DISTRIBUTION NETWORK	
1. NOTE	F-1
2. PHASE 1	F-2
3. PHASE 2 MAIN SYSTEM	F-6
4. PHASE 2 SUB SYSTEM	F-11

HYDRAULIC ANALYSIS ON DISTRIBUTION NETWORK

NOTE:

PHASE 1

Title: 2000ANTI

Pipes with No. 9101 to 9143 are dummy pipes for deepwells.

Nodes with No. 101 to 143 are deepwells.

Node with No. 100 is a Distribution Reservoir.

PHASE 2

Title: 2010ANTI (Main System)

Pipes with No. 9101 to 9143 are dummy pipes for deepwells.

Nodes with No. 101 to 143 are deepwells.

Node with No. 100 is a Distribution Reservoir (Phase 1 + Phase 2).

Pipes with No. 2001 to 2017 are newly installed pipes in Phase 2.

Pipes with No. 2201 to 2260 are pipes installed parallelly with the one installed in Phase 1.

Pipes with No. 1001 to 1064 are installed in Phase 1.

Title: 2010ANTB (Sub System)

Node with No. 200 is a Distribution Reservoir.

Node with No. 208 is a dummy node located at node No. 8 in the Main System.

T I T L E : ANTIPOLO, 2000
 NO. OF PIPES : 78
 NO. OF NODES : 62
 PEAK FACTOR : 2
 MAX HEADLOSS/Km : 12
 MAX UNBAL(LPS) : .009

PIPE NO.	FROM Node	TO Node	LENGTH (M)	DIA (MM)	HWC	FLOW (LPS)	VELOCITY (MPS)	HEADLOSS (M/KM)	HEADLOSS (M)
9100	100	5	900.00	600	130	247.77	0.88	1.19	1.07
9101	101	1	50.00	200	100	23.83	0.76	5.35	0.27
1001	2	1	380.00	300	110	83.80	1.19	6.38	2.43
1002	1	9	650.00	150	100	8.19	0.46	3.01	1.96
1003	1	10	310.00	200	100	25.50	0.81	6.07	1.88
1004	1	13	380.00	250	110	59.72	1.22	8.29	3.15
1005	3	2	350.00	350	110	110.74	1.15	5.05	1.77
1006	2	14	460.00	150	100	14.52	0.82	8.69	4.00
1007	4	3	180.00	350	110	132.30	1.38	7.01	1.26
1008	3	15	330.00	150	100	16.26	0.92	10.72	3.54
9104	104	4	50.00	150	100	9.61	0.54	4.05	0.20
1009	5	4	370.00	500	120	207.87	1.06	2.42	0.90
1010	4	17	390.00	400	120	79.87	0.64	1.22	0.48
9105	105	5	50.00	150	100	9.61	0.54	4.05	0.20
1011	5	6	340.00	300	110	39.89	0.56	1.62	0.55
1012	6	7	410.00	200	100	30.27	0.96	8.34	3.42
1013	7	8	800.00	200	100	20.65	0.66	4.11	3.29
1014	8	9	580.00	150	100	6.23	0.35	1.82	1.05
1015	10	11	780.00	100	100	3.96	0.50	5.67	4.42
1016	12	11	270.00	250	110	50.84	1.04	6.15	1.66
1017	11	43	200.00	250	110	44.14	0.90	4.74	0.95
1018	13	12	210.00	250	110	54.97	1.12	7.11	1.49
1019	24	12	90.00	100	100	1.21	0.15LO	0.63	0.06
1020	14	13	400.00	150	100	9.47	0.54	3.94	1.58
9114	114	14	50.00	100	100	4.84	0.62	8.21	0.41
1021	15	14	190.00	150	100	17.03	0.96	11.68	2.22
1022	14	23	200.00	150	100	14.51	0.82	8.68	1.74
1023	16	15	70.00	100	100	6.07	0.77	12.49HI	0.87
1024	17	16	430.00	150	100	13.88	0.79	8.00	3.44
1025	16	21	260.00	100	100	2.50	0.32	2.42	0.63
9117	117	17	50.00	250	110	41.22	0.84	4.17	0.21
1026	17	18	700.00	200	100	9.62	0.31	1.00	0.70
1027	17	19	210.00	350	110	86.98	0.90	3.23	0.68
1028	19	20	420.00	150	100	13.63	0.77	7.73	3.25
1029	19	21	460.00	200	100	28.31	0.90	7.36	3.39
1030	19	28	880.00	300	110	31.42	0.44	1.04	0.91
9121	121	21	50.00	150	100	10.24	0.58	4.56	0.23
1031	21	22	260.00	150	100	19.22	1.09	14.61HI	3.80
1032	21	27	200.00	150	100	8.20	0.46	3.02	0.60
1033	22	23	120.00	100	100	2.96	0.38	3.29	0.40
1034	22	26	220.00	100	100	0.86	0.11LO	0.34	0.07

PIPE NO.	FROM Node	TO Node	LENGTH (M)	DIA (MM)	HWC	FLOW (LPS)	VELOCITY (MPS)	HEADLOSS (M/KM)	HEADLOSS (M)
1035	23	24	320.00	100	100	3.27	0.42	3.97	1.27
1036	25	24	400.00	100	100	3.28	0.42	3.99	1.60
9125	125	25	50.00	200	100	21.84	0.70	4.56	0.23
1037	25	26	280.00	100	100	0.17	0.02LO	0.02	0.00
1038	25	41	480.00	150	100	11.27	0.64	5.44	2.61
1039	27	26	310.00	100	100	5.54	0.71	10.53	3.26
1040	35	26	420.00	100	100	5.30	0.67	9.71	4.08
9127	127	27	50.00	150	100	9.61	0.54	4.05	0.20
1041	28	27	450.00	100	100	4.38	0.56	6.82	3.07
9128	128	28	50.00	150	100	14.90	0.84	9.11	0.46
1042	28	29	190.00	150	100	8.91	0.50	3.52	0.67
1043	28	35	430.00	200	100	23.58	0.75	5.25	2.26
1044	30	29	450.00	100	100	9.59	1.22	29.10HI	13.10
1045	29	32	660.00	150	100	9.05	0.51	3.62	2.39
9130	130	30	50.00	200	100	28.82	0.92	7.61	0.38
1046	30	31	410.00	150	100	16.96	0.96	11.59	4.75
1047	31	33	650.00	100	100	7.04	0.90	16.43HI	10.68
1048	31	37	680.00	100	100	7.66	0.98	19.18HI	13.04
1049	33	32	670.00	100	100	0.40	0.05LO	0.08	0.06
1050	33	34	570.00	100	100	4.38	0.56	6.82	3.89
1051	34	39	730.00	100	100	2.12	0.27LO	1.78	1.30
9135	135	35	50.00	150	100	12.35	0.70	6.44	0.32
1052	35	36	410.00	150	100	10.18	0.58	4.51	1.85
1053	35	40	390.00	150	100	7.43	0.42	2.52	0.98
1054	36	37	880.00	150	100	5.49	0.31	1.44	1.27
1055	37	38	720.00	150	100	8.47	0.48	3.21	2.31
1056	38	39	720.00	150	100	3.78	0.21LO	0.72	0.52
9140	140	40	50.00	100	100	5.01	0.64	8.76	0.44
1057	40	41	580.00	100	100	5.34	0.68	9.82	5.70
1058	41	42	80.00	150	100	13.05	0.74	7.14	0.57
1059	42	43	270.00	150	100	9.50	0.54	3.96	1.07
9143	143	43	50.00	150	100	12.87	0.73	6.96	0.35
1060	43	44	1130.00	250	100	55.84	1.14	8.73	9.87
1061	44	45	390.00	200	100	44.69	1.42	17.14HI	6.68
1062	45	46	820.00	150	100	27.95	1.58	29.20HI	23.94
1063	46	47	240.00	150	100	16.77	0.95	11.35	2.72
1064	47	48	900.00	100	100	11.18	1.42	38.61HI	34.75

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
100 R	247.771	240.00	240.00	0.00
101	23.828	176.00	232.85	56.85
1	-14.224	176.00	232.58	56.58
2	-12.416	186.00	235.00	49.00
3	-5.304	190.00	236.77	46.77
104	9.606	190.00	238.23	48.23

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
4	-5.304	190.00	238.03	48.03
105	9.606	212.00	239.13	27.13
5	-9.620	212.00	238.93	26.93
6	-9.620	229.00	238.38	9.38
7	-9.620	215.00	234.96	19.96
8	-14.420	192.00	231.67	39.67
9	-14.420	186.00	230.62	44.62
10	-21.532	175.00	230.70	55.70
11	-10.668	188.00	226.27	38.27
12	-5.334	189.00	227.94	38.94
13	-14.224	184.00	229.43	45.43
114	4.842	185.00	231.42	46.42
14	-12.416	185.00	231.01	46.01
15	-5.304	185.00	233.23	48.23
16	-5.304	185.00	234.12	49.12
117	41.218	190.00	237.76	47.76
17	-10.608	190.00	237.55	47.55
18	-9.620	222.00	236.85	14.85
19	-13.626	205.00	236.88	31.88
20	-13.626	202.00	233.63	31.63
121	10.241	195.00	233.72	38.72
21	-13.626	195.00	233.49	38.49
22	-15.404	192.00	229.69	37.69
23	-14.194	194.00	229.27	35.27
24	-5.334	189.00	228.00	39.00
125	21.837	195.00	229.82	34.82
25	-7.112	195.00	229.60	34.60
26	-11.878	190.00	229.61	39.61
127	9.606	199.00	233.09	34.09
27	-16.646	199.00	232.88	33.88
128	14.896	204.00	236.42	32.42
28	-9.452	204.00	235.96	31.96
29	-9.452	202.00	235.29	33.29
130	28.819	202.00	248.77	46.77
30	-2.260	202.00	248.39	46.39
31	-2.260	196.00	243.64	47.64
32	-9.452	212.00	232.90	20.90
33	-2.260	200.00	232.96	32.96
34	-2.260	210.00	229.07	19.07
135	12.347	199.00	234.03	35.03
35	-13.008	199.00	233.70	34.70
36	-4.686	195.00	231.86	36.86
37	-4.686	214.00	230.59	16.59
38	-4.686	210.00	228.28	18.28
39	-5.902	220.00	227.76	7.76
140	5.013	194.00	233.16	39.16
40	-7.112	194.00	232.72	38.72
41	-3.556	197.00	227.02	30.02

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
42	-3.556	198.00	226.40	28.40
143	12.874	186.00	225.67	39.67
43	-10.668	186.00	225.33	39.33
44	-11.152	140.00	215.46	75.46
45	-16.742	118.00	208.78	90.78
46	-11.180	80.00	184.83	104.83
47	-5.590	65.00	182.11	117.11
48	-11.180	40.00	147.36	107.36

T I T L E : ANTIPOLO, 2010, MAIN SYSTEM
 NO. OF PIPES : 127
 NO. OF NODES : 77
 PEAK FACTOR : 2
 MAX HEADLOSS/Km : 14
 MAX UNBAL(LPS) : .009

PIPE NO.	FROM Node	TO Node	LENGTH (M)	DIA (MM)	HWC	FLOW (LPS)	VELOCITY (MPS)	HEADLOSS (M/KM)	HEADLOSS (M)
9100	100	5	900.00	600	130	233.30	0.83	1.07	0.96
9200	100	5	900.00	700	130	350.07	0.91	1.07	0.96
9101	101	1	50.00	200	100	23.83	0.76	5.35	0.27
1001	2	1	380.00	300	110	78.15	1.11	5.61	2.13
2201	2	1	380.00	300	110	78.15	1.11	5.61	2.13
1002	1	9	650.00	150	100	6.47	0.37	1.95	1.27
1003	1	10	310.00	200	100	22.81	0.73	4.94	1.53
2203	1	10	310.00	250	110	45.15	0.92	4.94	1.53
1004	1	13	380.00	250	110	44.60	0.91	4.83	1.83
2204	1	13	380.00	250	110	44.60	0.91	4.83	1.83
1005	3	2	350.00	350	110	119.98	1.25	5.85	2.05
2205	3	2	350.00	300	110	79.96	1.13	5.85	2.05
1006	2	14	460.00	150	100	12.86	0.73	6.95	3.20
2206	2	14	460.00	150	100	12.86	0.73	6.95	3.20
1007	4	3	180.00	350	110	122.19	1.27	6.05	1.09
2207	4	3	180.00	350	110	122.19	1.27	6.05	1.09
1008	3	15	330.00	150	100	11.09	0.63	5.28	1.74
2208	3	15	330.00	200	100	23.66	0.75	5.28	1.74
9104	104	4	50.00	150	100	9.61	0.54	4.05	0.20
1009	5	4	370.00	500	120	259.81	1.32	3.66	1.36
2209	5	4	370.00	500	120	259.81	1.32	3.66	1.36
1010	4	17	390.00	400	110	92.87	0.74	1.90	0.74
2210	4	17	390.00	500	120	182.29	0.93	1.90	0.74
9105	105	5	50.00	150	100	9.61	0.54	4.05	0.20
1011	5	6	340.00	300	110	55.58	0.79	2.99	1.02
1012	6	7	410.00	200	100	25.74	0.82	6.18	2.53
2212	6	7	410.00	150	100	12.07	0.68	6.18	2.53
1013	7	8	800.00	200	100	20.04	0.64	3.89	3.11
1014	8	9	580.00	150	100	6.78	0.38	2.13	1.23
1015	10	11	780.00	100	100	2.87	0.37	3.13	2.44
1016	12	11	270.00	250	110	44.93	0.92	4.90	1.32
2216	12	11	270.00	200	100	22.70	0.72	4.90	1.32
1017	11	43	200.00	250	110	38.05	0.78	3.60	0.72
2217	11	43	200.00	200	100	19.23	0.61	3.60	0.72
1018	13	12	210.00	250	110	39.57	0.81	3.87	0.81
2218	13	12	210.00	250	110	39.57	0.81	3.87	0.81
1019	12	24	90.00	100	100	4.89	0.62	8.37	0.75
1020	14	13	400.00	150	100	6.42	0.36	1.92	0.77
9114	114	14	50.00	100	100	4.84	0.62	8.21	0.41
1021	15	14	190.00	150	100	21.78	1.23	18.40HI	3.50
1022	14	23	200.00	150	100	14.00	0.79	8.12	1.62

PIPE NO.	FROM Node	TO Node	LENGTH (M)	DIA (MM)	HWC	FLOW (LPS)	VELOCITY (MPS)	HEADLOSS (M/KM)	HEADLOSS (M)
2222	14	23	200.00	150	100	14.00	0.79	8.12	1.62
1023	15	16	70.00	100	100	3.29	0.42	4.02	0.28
1024	17	16	430.00	150	100	11.34	0.64	5.50	2.37
1025	16	21	260.00	100	100	4.95	0.63	8.54	2.22
9117	117	17	50.00	250	110	41.22	0.84	4.17	0.21
1026	17	18	700.00	200	100	17.77	0.57	3.11	2.18
1027	17	19	210.00	350	110	86.03	0.89	3.16	0.66
2227	17	19	210.00	450	120	181.86	1.14	3.16	0.66
1028	19	20	420.00	150	100	9.59	0.54	4.03	1.69
2228	19	20	420.00	200	100	20.45	0.65	4.03	1.69
1029	19	21	460.00	200	100	30.64	0.98	8.52	3.92
2229	19	21	460.00	100	100	4.94	0.63	8.52	3.92
1030	19	28	880.00	300	110	43.72	0.62	1.92	1.69
2230	19	28	880.00	450	120	138.69	0.87	1.92	1.69
9121	121	21	50.00	150	100	10.24	0.58	4.56	0.23
1031	21	22	260.00	150	100	19.03	1.08	14.34HI	3.73
1032	21	27	200.00	150	100	8.84	0.50	3.47	0.69
2232	21	27	200.00	100	100	3.04	0.39	3.47	0.69
1033	23	22	120.00	100	100	5.19	0.66	9.35	1.12
1034	22	26	220.00	100	100	0.94	0.12LO	0.39	0.09
2234	22	26	220.00	100	100	0.94	0.12LO	0.39	0.09
1035	23	24	320.00	100	100	2.38	0.30	2.21	0.71
1036	24	25	400.00	100	100	0.66	0.08LO	0.21	0.08
9125	125	25	50.00	200	100	21.84	0.70	4.56	0.23
1037	25	26	280.00	100	100	1.93	0.25LO	1.50	0.42
1038	25	41	480.00	150	100	10.61	0.60	4.86	2.33
1039	27	26	310.00	100	100	5.40	0.69	10.05	3.11
1040	35	26	420.00	100	100	5.94	0.76	12.00	5.04
9127	127	27	50.00	150	100	9.61	0.54	4.05	0.20
1041	28	27	450.00	100	100	4.26	0.54	6.49	2.92
9128	128	28	50.00	150	100	14.90	0.84	9.11	0.46
1042	28	29	190.00	150	100	7.63	0.43	2.64	0.50
2242	28	29	190.00	300	110	52.03	0.74	2.64	0.50
1043	28	35	430.00	200	100	15.14	0.48	2.31	0.99
2243	28	35	430.00	400	110	103.24	0.82	2.31	0.99
1044	30	29	450.00	100	100	3.74	0.48	5.09	2.29
1045	29	32	660.00	150	100	9.27	0.52	3.79	2.50
2245	29	32	660.00	250	110	39.12	0.80	3.79	2.50
9130	130	30	50.00	200	100	28.82	0.92	7.61	0.38
1046	30	31	410.00	150	100	15.41	0.87	9.71	3.98
1047	31	33	650.00	100	100	3.21	0.41	3.83	2.49
1048	31	37	680.00	100	100	2.53	0.32	2.48	1.68
1049	32	33	670.00	100	100	2.55	0.32	2.51	1.68
2249	32	33	670.00	200	100	15.82	0.50	2.51	1.68
1050	33	34	570.00	100	100	3.05	0.39	3.49	1.99
2250	33	34	570.00	150	100	8.86	0.50	3.49	1.99
1051	34	39	730.00	100	100	2.24	0.29LO	1.97	1.44
9135	135	35	50.00	150	100	12.35	0.70	6.44	0.32

PIPE NO.	FROM Node	TO Node	LENGTH (M)	DIA (MM)	HWC	FLOW (LPS)	VELOCITY (MPS)	HEADLOSS (M/KM)	HEADLOSS (M)
1052	35	36	410.00	150	100	8.20	0.46	3.02	1.24
2252	35	36	410.00	250	110	34.61	0.71	3.02	1.24
1053	35	40	390.00	150	100	7.93	0.45	2.84	1.11
2253	35	40	390.00	300	110	54.06	0.76	2.84	1.11
1054	36	37	880.00	150	100	6.32	0.36	1.87	1.64
2254	36	37	880.00	250	110	26.68	0.54	1.87	1.64
1055	37	38	720.00	150	100	8.21	0.46	3.03	2.18
2255	37	38	720.00	200	100	17.51	0.56	3.03	2.18
1056	38	39	720.00	150	100	7.95	0.45	2.85	2.05
2256	38	39	720.00	150	100	7.95	0.45	2.85	2.05
9140	140	40	50.00	100	100	5.01	0.64	8.76	0.44
1057	40	41	580.00	100	100	5.40	0.69	10.06	5.84
1058	41	42	80.00	150	100	11.04	0.62	5.23	0.42
1059	43	42	270.00	150	100	11.62	0.66	5.76	1.55
9143	143	43	50.00	150	100	12.87	0.73	6.96	0.35
1060	43	44	1130.00	250	100	35.95	0.73	3.86	4.37
2260	43	44	1130.00	150	100	9.37	0.53	3.86	4.37
1061	44	45	390.00	200	100	30.59	0.97	8.50	3.31
1062	45	46	820.00	150	100	22.07	1.25	18.86HI	15.47
1063	46	47	240.00	150	100	13.24	0.75	7.33	1.76
1064	47	48	900.00	100	100	8.83	1.12	24.94HI	22.45
2001	20	50	390.00	150	100	10.17	0.58	4.50	1.76
2002	32	51	460.00	150	100	15.01	0.85	9.24	4.25
2003	39	52	470.00	200	100	16.28	0.52	2.65	1.24
2004	52	53	650.00	200	100	14.42	0.46	2.11	1.37
2005	53	54	430.00	150	100	11.53	0.65	5.67	2.44
2006	56	55	1230.00	100	100	1.86	0.24LO	1.40	1.72
2007	56	57	1300.00	200	100	17.66	0.56	3.08	4.00
2008	59	56	520.00	200	100	29.48	0.94	7.94	4.13
2009	57	58	1680.00	150	100	8.83	0.50	3.46	5.82
2010	40	59	720.00	250	110	51.63	1.05	6.33	4.56
2011	59	60	600.00	150	100	12.20	0.69	6.30	3.78
2012	60	61	970.00	100	100	2.24	0.29LO	1.97	1.91
2013	62	61	750.00	150	100	7.72	0.44	2.70	2.03
2014	42	62	640.00	200	100	17.68	0.56	3.08	1.97
2015	10	63	970.00	250	110	43.59	0.89	4.63	4.49
2016	63	64	490.00	200	100	27.10	0.86	6.80	3.33
2017	64	45	620.00	150	100	10.62	0.60	4.87	3.02

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
100 R	583.365	240.00	240.00	0.00
101	23.828	176.00	232.69	56.69
1	-16.486	176.00	232.42	56.42
2	-17.930	186.00	234.55	48.55
3	-9.686	190.00	236.60	46.60

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
104	9.606	190.00	237.89	47.89
4	-9.686	190.00	237.69	47.69
105	9.606	212.00	239.24	27.24
5	-17.772	212.00	239.04	27.04
6	-17.772	229.00	238.03	9.03
7	-17.772	215.00	235.49	20.49
8	-13.256	192.00	232.38	40.38
9	-13.256	186.00	231.15	45.15
10	-21.500	175.00	230.89	55.89
11	-13.222	188.00	228.45	40.45
12	-6.610	189.00	229.77	40.77
13	-16.486	184.00	230.58	46.58
114	4.842	185.00	231.76	46.76
14	-17.930	185.00	231.35	46.35
15	-9.686	185.00	234.85	49.85
16	-9.686	185.00	234.58	49.58
117	41.218	190.00	237.15	47.15
17	-19.374	190.00	236.94	46.94
18	-17.772	222.00	234.77	12.77
19	-19.860	205.00	236.28	31.28
20	-19.860	202.00	234.59	32.59
121	10.241	195.00	232.59	37.59
21	-19.860	195.00	232.36	37.36
22	-22.348	192.00	228.63	36.63
23	-20.420	194.00	229.73	35.73
24	-6.610	189.00	229.02	40.02
125	21.837	195.00	229.17	34.17
25	-9.958	195.00	228.94	33.94
26	-15.152	190.00	228.54	38.54
127	9.606	199.00	231.87	32.87
27	-20.346	199.00	231.66	32.66
128	14.896	204.00	235.05	31.05
28	-15.008	204.00	234.60	30.60
29	-15.008	202.00	234.09	32.09
130	28.819	202.00	236.76	34.76
30	-9.670	202.00	236.38	34.38
31	-9.670	196.00	232.40	36.40
32	-15.008	212.00	231.59	19.59
33	-9.670	200.00	229.91	29.91
34	-9.670	210.00	227.92	17.92
135	12.347	199.00	233.92	34.92
35	-19.986	199.00	233.60	34.60
36	-9.814	195.00	232.36	37.36
37	-9.814	214.00	230.72	16.72
38	-9.814	210.00	228.54	18.54
39	-1.862	220.00	226.49	6.49
140	5.013	194.00	232.93	38.93
40	-9.958	194.00	232.49	38.49

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
41	-4.978	197.00	226.66	29.66
42	-4.978	198.00	226.17	28.17
143	12.874	186.00	228.07	42.07
43	-13.222	186.00	227.73	41.73
44	-14.724	140.00	223.36	83.36
45	-19.138	118.00	220.04	102.04
46	-8.828	80.00	204.58	124.58
47	-4.414	65.00	202.82	137.82
48	-8.828	40.00	180.37	140.37
50	-10.172	220.00	232.83	12.83
51	-15.008	226.00	227.34	1.34
52	-1.862	197.00	225.24	28.24
53	-2.892	192.00	223.87	31.87
54	-11.526	205.00	221.43	16.43
55	-1.862	220.00	222.09	2.09
56	-9.958	201.00	223.81	22.81
57	-8.828	152.00	219.81	67.81
58	-8.828	125.00	213.99	88.99
59	-9.958	205.00	227.94	22.94
60	-9.958	206.00	224.16	18.16
61	-9.958	185.00	222.24	37.24
62	-9.958	183.00	224.20	41.20
63	-16.486	160.00	226.40	66.40
64	-16.486	137.00	223.07	86.07

T I T L E : ANTIPOLO, 2010, SUB SYSTEM
 NO. OF PIPES : 8
 NO. OF NODES : 9
 PEAK FACTOR : 2
 MAX HEADLOSS/Km : 10

PIPE NO.	FROM Node	TO Node	LENGTH (M)	DIA (MM)	HWC	FLOW (LPS)	VELOCITY (MPS)	HEADLOSS (M/KM)	(M)
9300	200	66	50.00	200	110	50.13	1.60	17.77HI	0.89
3001	65	208	530.00	100	100	2.60	0.33	2.60	1.38
3002	66	65	430.00	100	100	5.01	0.64	8.76	3.77
3003	66	67	430.00	200	100	35.09	1.12	10.96HI	4.71
3004	67	68	640.00	200	100	25.07	0.80	5.88	3.76
3005	68	69	400.00	150	100	15.04	0.85	9.28	3.71
3006	69	70	1040.00	150	100	10.03	0.57	4.38	4.56
3007	70	71	370.00	100	100	5.01	0.64	8.76	3.24

NODE NO.	FLOW (LPS)	ELEVATION (M)	H G L (M)	PRESSURE (M)
200 R	50.132	235.00	240.00	5.00
208	-2.600	192.00	233.97	41.97
65	-2.414	212.00	235.34	23.34
66	-10.026	230.00	239.11	9.11
67	-10.026	208.00	234.40	26.40
68	-10.026	188.00	230.64	42.64
69	-5.014	212.00	226.92	14.92
70	-5.012	180.00	222.37	42.37
71	-5.014	158.00	219.13	61.13

APPENDIX G

COST ESTIMATES FOR THE PROJECT

LIST OF TABLE

	PAGE
APPENDIX G COST ESTIMATES FOR THE PROJECT	
1. PROJECT COST FOR PHASE 1	G-1
2. PHASE 1 TRANSMISSION PIPELINE	G-2
3. PHASE 1 BOOSTER PUMPING STATION NO.1	G-3
4. PHASE 1 BOOSTER PUMPING STATION NO.2	G-4
5. PHASE 1 DISTRIBUTION RESERVOIR	G-5
6. PHASE 1 DISTRIBUTION PIPELINE (MAIN)	G-6
7. PHASE 1 DISTRIBUTION PIPELINE (INTERNAL)	G-7
8. REPLACEMENT OF HOUSE SERVICE CONNECTION	G-7
9. INSTALLATION OF HOUSE SERVICE CONNECTION	G-7
10. PROJECT COST FOR PHASE 2	G-8
11. PHASE 2 TRANSMISSION PIPELINE	G-9
12. PHASE 2 BOOSTER PUMPING STATION NO.1	G-10
13. PHASE 2 BOOSTER PUMPING STATION NO.2	G-11
14. PHASE 2 DISTRIBUTION RESERVOIR (MAIN)	G-12
15. PHASE 2 DISTRIBUTION RESERVOIR (SUB)	G-13
16. PHASE 1 DISTRIBUTION PIPELINE	G-14
17. PHASE 2 BOOSTER PUMPING STATION NO.3	G-15
18. PHASE 2 BOOSTER PUMPING STATION NO.4	G-16
19. DISTRIBUTION PIPELINE (INTERNAL)	G-17
20. INSTALLATION OF HOUSE SERVICE CONNECTION	G-17
21. ELEVATED WATER TANK	G-18

TABLE PROJECT COST FOR PHASE 1

(in Thousand Pesos)

Construction Cost		
1. Transmission Pipeline		58,343
2. Booster Pumping Station No.1		
	Civil & Arch. Work	8,227
	Mechanical Work	14,976
	Electrical Work	19,020
	Sub Total	42,223
3. Booster Pumping Station No.2		
	Civil & Arch. Work	7,249
	Mechanical Work	19,104
	Electrical Work	22,848
	Sub Total	49,201
4. Communication Wiring (for telecontrol system)		5,383
5. Distribution Reservoir		
	Civil & Arch. Work	11,412
	Mechanical Work	2,896
	Sub Total	14,308
6. Distribution System		
	Distribution Main	65,355
	Inner Network	23,761
	Fire Hydrant	3,461
	Service Connection	58,570
	Sub Total	151,147
Construction Cost Total		320,605
Engineering Cost	(D/D 8%, C/S 4%)	38,473
Land Acquisition	(B.P.S. 1 & 2, Reservoir)	9,585
Total		368,663
Physical Contingency	10%	36,866
GRAND TOTAL		405,529

TABLE PHASE 1 TRANSMISSION PIPELINE

TRANSMISSION LINE	DIA.	NO.	UNIT	UNIT C.	AMOUNT
PIPE LAYING	450	12,650	M	4,040	51,106,000
					SUB TOTAL 51,106,000
GATE VALVES	450	1	SET	147,700	147,700
					SUB TOTAL 147,700
AIR RELIEF VALVES	75	12	SETS	45,800	549,600
					SUB TOTAL 549,600
DRAIN VALVES	100	3	SETS	28,000	84,000
					SUB TOTAL 84,000
PIPE BRIDGE	450	3	LOT	384,000	1,152,000
					SUB TOTAL 1,152,000
SUB TOTAL					53,039,300
MISCELLANEOUS WORKS			10%		5,303,930
TOTAL					58,343,230

TABLE PHASE 1 BOOSTER PUMPING STATION NO.1

B.P.S NO.1 PHASE 1		NO.	UNIT	UNIT C.	AMOUNT
EXCAVATION	MACHINE	4,650	m3	17.25	80,213
	MANUAL	150	m3	65.00	9,750
BACKFILLING	MACHINE	2,050	m3	22.45	46,023
	MANUAL	100	m3	22.45	2,245
SOIL DISPOSAL	OUT OF SITE	2,650	m3	25.00	66,250
CONCRETING	240kg/cm2	910	m3	1,724.00	1,568,840
	120kg/cm2	40	m3	1,187.00	47,480
FORMWORK	TIMBER	2,000	m2	409.50	819,000
SCAFFOLDING		3,600	m3	15.00	54,000
RE-BAR	DEFORMED	72,800	kg	25.00	1,820,000
FOUNDATION	CRASHER RUN	80	m3	360.00	28,800
DRAINAGE	POWER COST	1	lot		150,000
PILING	PC PILE 10M	92	SETS	6,000.00	552,000
WATER PROOF	ASPHALT ROOFING	368	m2	90.00	33,120
	COVERING CONCRETE	37	m3	1,187.00	43,919
PAINTING	OUTSIDE	420	m2	60.00	25,200
	C.ROOM INSIDE	281	m2	40.00	11,240
	PUMP WELL	627	m2	235.00	147,345
SASH & FIXTURE		1	lot		300,000
SUB TOTAL					5,805,424
MISCELLANEOUS WORK				10%	580,542
BUILDING TOTAL					6,385,966
FENCE	1.5mH x 202mL	202	m	770.21	155,582
GATE		1	lot		40,000
B.P.S. TOTAL					6,581,549
OVERHEAD OF CONTRACTOR				x 0.25	1,645,387
GRAND TOTAL					8,226,936
					SAY 8,227,000

Mech. & Elec. Equipment		NO.	UNIT	UNIT C.	AMOUNT
MECHANICAL EQUIPMENT		1	lot		9,360,000
INSTALLATION w/materials		1	lot	60%	5,616,000
ELECTRICAL EQUIPMENT		1	lot		11,888,000
INSTALLATION w/materials		1	lot	60%	7,132,800
SUB TOTAL					33,996,800
(Overhead is already included in above)					33,996,800
Mech. & Elec. Equipment		TOTAL		SAY	33,997,000
B.P.S NO.1 PHASE 1 GRAND TOTAL					42,224,000

TABLE PHASE 1 BOOSTER PUMPING STATION NO.2

B.P.S NO.2 PHASE 1		NO.	UNIT	UNIT C.	AMOUNT
EXCAVATION	MACHINE	4,650	m3	17.25	80,213
	MANUAL	150	m3	65.00	9,750
BACKFILLING	MACHINE	2,050	m3	22.45	46,023
	MANUAL	100	m3	22.45	2,245
SOIL DISPOSAL	OUT OF SITE	2,650	m3	25.00	66,250
CONCRETING	240kg/cm2	910	m3	1,724.00	1,568,840
	120kg/cm2	40	m3	1,187.00	47,480
FORMWORK	TIMBER	2,000	m2	409.50	819,000
SCAFFOLDING		3,600	m3	15.00	54,000
RE-BAR	DEFORMED	72,800	kg	25.00	1,820,000
FOUNDATION	CRASHER RUN	80	m3	360.00	28,800
WATER PROOF	ASPHALT ROOFING	368	m2	90.00	33,120
	COVERING CONCRETE	37	m3	1,187.00	43,919
PAINTING	OUTSIDE	265	m2	60.00	15,900
	C.ROOM INSIDE	281	m2	40.00	11,240
	PUMP WELL	627	m2	235.00	147,345
SASH & FIXTURE		1	lot		300,000
SUB TOTAL					5,094,124
MISCELLANEOUS WORK				10%	509,412
BUILDING	TOTAL				5,603,536
FENCE	1.5mH x 202mL	202	m	770	155,582
GATE		1	lot		40,000
B.P.S.	TOTAL				5,799,119
OVERHEAD OF CONTRACTOR				x 0.25	1,449,780
GRAND TOTAL					7,248,899
					SAY 7,249,000

Mech. & Elec. Equipment		NO.	UNIT	UNIT C.	AMOUNT
MECHANICAL EQUIPMENT		1	lot		11,940,000
INSTALLATION w/materials		1	lot	60%	7,164,000
ELECTRICAL EQUIPMENT		1	lot		14,280,000
INSTALLATION w/materials		1	lot	60%	8,568,000
SUB TOTAL					41,952,000
(Overhead is already included in above)					41,952,000
Mech. & Elec. Equipment		TOTAL		SAY	41,952,000
B.P.S NO.2 PHASE 1		GRAND TOTAL			49,201,000

TABLE PHASE 1 DISTRIBUTION RESERVOIR

DIST. RESERVOIR PHASE 1		NO.	UNIT	UNIT C.	AMOUNT
EXCAVATION	MACHINE	5,985	m3	17.25	103,241
	MANUAL	288	m3	65.00	18,720
BACKFILLING	MACHINE	1,995	m3	22.45	44,788
	MANUAL	131	m3	22.45	2,941
SOIL DISPOSAL	OUT OF SITE	4,147	m3	25.00	103,675
CONCRETING	240kg/cm2	1,314	m3	1,724.00	2,265,336
	120kg/cm2	82	m3	1,187.00	97,334
FORMWORK	TIMBER	3,568	m2	409.50	1,461,096
SCAFFOLDING		3,715	m3	15.00	55,725
RE-BAR	DEFORMED	118,260	kg	25.00	2,956,500
FOUNDATION	CRASHER RUN	165	m3	360.00	59,400
WATER PROOF	ASPHALT ROOFING	724	m2	90.00	65,160
	COVERING CONCRETE	73	m3	1,187.00	86,651
PAINTING	INSIDE	3,450	m2	235.00	810,750
SUB TOTAL					8,131,317
MISCELLANEOUS WORK				10%	813,132
MAIN BODY TOTAL					8,944,449
FENCE	1.5mH x 160mL	188	m	770.21	144,799
GATE		1	lot		40,000
B.P.S. TOTAL					9,129,248
OVERHEAD OF CONTRACTOR				x 0.25	2,282,312
GRAND TOTAL					11,411,560
					SAY 11,412,000
PIPE FITTINGS		NO.	UNIT	UNIT C.	AMOUNT
GATE VALVES	INFLOW 350mm	2	SETS	72,500	145,000
	OUTFLOW 450mm	2	SETS	147,700	295,400
DRAIN VALVES	300mm	2	SETS	54,300	108,600
BYPASS VALVES	450mm	1	SET	147,700	147,700
BYPASS PIPE	DRAIN VALVE 100mm	1	SET	13,400	13,400
FLEX. JOINT	INFLOW 350mm	2	SETS	119,600	239,200
	OUTFLOW 450mm	2	SETS	156,400	312,800
	DRAIN 300mm	2	SETS	104,300	208,600
	OVERFLOW 350mm	2	SETS	119,600	239,200
FLOW METER	INFLOW 450mm	1	SET	199,200	199,200
	OUTFLOW 600mm	1	SET	271,000	271,000
PIPING	INFLOW 450mm	24	m	4,040	96,960
	INFLOW 350mm	6	m	3,340	20,040
	OUTFLOW 450mm	6	m	4,040	24,240
	OUTFLOW 600mm	23	m	6,540	150,420
	BYPASS 450mm	34	m	4,040	137,360
	DRAIN 300mm	100	m	2,870	287,000
SUB TOTAL					2,896,120
OVERHEAD OF CONTRACTOR INCLUDED IN ABOVE					0
GRAND TOTAL					2,896,120
					SAY 2,896,000
DIST. RESERVOIR PHASE 1 TOTAL					14,308,000