

7. WATER SOURCE DEVELOPMENT
7.1 GENERAL

Table 7.1.1
Water Source Information

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)					Page: 1 of 1
Content: Water Source - General Information					Date:
Data Collection Level: Provincial		Province No.: 1124			Filename: Water Source.xls
Region Number: XI		Province Name: Davao Del Sur			Form Number: P.4.1
	Type of Water Source	Character	Shallow Well	Deep Well	Spring
Implementor	Total number of water sources	Number	1,927	2,096	436
	Government Agency	Number	1,116	2,096	436
	Private	Number	811		
Level	Level I	Number	1,927	2,073	392
	Level II	Number		5	40
	Level III	Number		18	4
Ownership	Water District	Number		5	1
	MEO/CEO	Number			1
	RWSA	Number		11	25
	BWSA	Number			
	Institution	Number		4	1
	Commercial Establishment	Number			
	Industrial/Agricultural Undertaking	Number			
	Public (Domestic)	Number	1,116	2,076	408
Private (Domestic)	Number	811			
Abstraction	Submersible/Turbine	Number		23	
	Centrifugal	Number			
	Handpump	Number	1,116	2,073	
	Bucket & Rope	Number			
	Free Flowing	Number			436
Usage	Drinking	Number	1,927	2,096	436
	Washing/Bathing	Number	1,927	2,096	436
	Gardening/Irrigation	Number	1,927	2,096	436
	Big-Scale Irrigation	Number			
	Production	Number			
Water Quality	No Quality Problem	Number			436
	High Iron/Mag. Content	Number			
	High Chloride Content	Number			
	Turbidity/Colored/Smell	Number			
	Polluted/Contaminated	Number			
	Chlorinated	Number			328
	Treated	Number			328
Production	Seasonal Production	Number			
	Average Capacity < 100 m ³ /day	Number	1,927	2,073	433
	Average Capacity >= 100 m ³ /day	Number		23	3
	Number of Household < 5	Number			
	Number of Household >= 5	Number	17,551	10,276	11,103

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial				Province No: 1124			Filename: Water Source.xls	
Region Number: XI				Province Name: Davao Del Sur			Form Number: P.4.1	
	Name of Municipalities	Character	Bansalan			Digos		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
Implic- mentor	Total number of water sources	Number	13	47	11	350	378	31
	Government Agency	Number	8	47	10	255	375	31
	Private	Number	5		1	95	3	
Level	Level I	Number	13	47	7	350	374	30
	Level II	Number			3		1	1
	Level III	Number			1		3	
Ownership	Water District	Number			1		3	
	MFO/CEO	Number						
	RWSA	Number						
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	8	47	10	255	375	31
	Private (Domestic)	Number	5			95	3	
Abstraction	Submersible/Turbine	Number					3	
	Centrifugal	Number						
	Handpump	Number	13	47		350	275	
	Bucket & Rope	Number						
	Free Flowing	Number			11			31
Usage	Drinking	Number	13	47	11	350	378	31
	Washing/Bathing	Number	13	47	11	350	378	31
	Gardening/Irrigation	Number	13	47	11	350	378	31
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number			11			31
Production	Treated	Number					3	
	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number	13	47	11	350	378	31
	Average Capacity >= 100 m ³ /day	Number					3	
	Number of Household < 5	Number						
Number of Household >= 5	Number	125	705	2,939	3,920	6,449	450	

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial				Province No.: 1124			Filename: Water Source.xls	
Region Number: XI				Province Name: Davao Del Sur			Form Number: P.4.1	
	Name of Municipalities	Character	Don Marcelino			Hagonoy		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
Implic- mentor	Total number of water sources	Number	72	13	100	81	305	
	Government Agency	Number	40	13	100	43	303	
Level	Private	Number	32			38	2	
	Level I	Number	72	13	99	81	301	
	Level II	Number			1		2	
Ownership	Level III	Number					2	
	Water District	Number					1	
	MEO/CEO	Number						
	RWSA	Number					3	
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaking	Number						
	Public (Domestic)	Number	40	13	100	43	303	
Abstraction	Private (Domestic)	Number	32			38	2	
	Submersible/Turbine	Number					4	
	Centrifugal	Number						
	Handpump	Number	72	13		81	301	
	Bucket & Rope	Number						
Usage	Free Flowing	Number			100			
	Drinking	Number	72	13	100	81	305	
	Washing/Bathing	Number	72	13	100	81	305	
	Gardening/Irrigation	Number	72	13	100	81	305	
	Big-Scale Irrigation	Number						
Water Quality	Production	Number						
	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						
Treated	Number							
Production	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number	72	13	100	81	301	
	Average Capacity >= 100 m ³ /day	Number					4	
	Number of Household < 5	Number						
	Number of Household >= 5	Number	632	195	1,450	683	13,000	

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PWASP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial			Province No.: 1124			Filename: Water Source.xls		
Region Number: XI			Province Name: Davao Del Sur			Form Number: P.4.1		
	Name of Municipalities	Character	Jose Abad Santos			Kiblawan		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
Implementor	Total number of water sources	Number	90	83	5	148	99	6
	Government Agency	Number	40	83	5	53	98	6
Level	Private	Number	50			95	1	
	Level I	Number	90	83	5	148	98	5
	Level II	Number						1
Ownership	Level III	Number					1	
	Water District	Number					1	
	MEO/CEO	Number						
	RWSA	Number						
	DWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertakin	Number						
Abstraction	Public (Domestic)	Number	40	83	5	53	98	6
	Private (Domestic)	Number	50			95	1	
	Submersible/Turbine	Number					1	
	Centrifugal	Number						
	Handpump	Number	90	83		148	98	
Usage	Bucket & Rope	Number						
	Free Flowing	Number			5			6
	Drinking	Number	90	83	5	148	99	6
	Washing/Bathing	Number	90	83	5	148	99	6
	Gardening/Irrigation	Number	90	83	5	148	99	6
Water Quality	Big-Scale Irrigation	Number						
	Production	Number						
	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
Production	Polluted/Contaminated	Number						
	Chlorinated	Number					1	
	Treated	Number						
	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number	90	83	5	148	98	6
Production	Average Capacity >= 100 m ³ /day	Number					1	
	Number of Household < 5	Number						
	Number of Household >= 5	Number	650	1,245	75	890	4,752	90

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial			Province No.: 1124			Filename: Water Source.xls		
Region Number: XI			Province Name: Davao Del Sur			Form Number: P.4.1		
	Name of Municipalities	Character	Magsaysay			Malafag		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	45	271	24	130	129	10
Impl- mentor	Government Agency	Number	16	271	24	63	129	10
	Private	Number	29			67		
Level	Level I	Number	45	270	8	130	127	9
	Level II	Number			15			1
	Level III	Number		1	1		2	
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number		1	16			
	BWSA	Number						
	Institution	Number			1		2	
	Commercial Establishment	Number						
	Industrial/Agricultural Undertak	Number						
	Public (Domestic)	Number	16	271	23	63	127	10
Private (Domestic)	Number	29			67			
Abstraction	Submersible/Turbine	Number		1			2	
	Centrifugal	Number						
	Handpump	Number	45	271		130	127	
	Bucket & Rope	Number						
	Free Flowing	Number			24			10
Usage	Drinking	Number	45	271	24	130	129	10
	Washing/Bathing	Number	45	271	24	130	129	10
	Gardening/Irrigation	Number	45	271	24	130	129	10
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number			24			10
	Treated	Number					2	
Production	Seasonal Production	Number						
	Average Capacity < 100 m ³ /da	Number	45	271	23	130	127	10
	Average Capacity >= 100 m ³ /d	Number		1	1		2	
	Number of Household < 5	Number						
	Number of Household >= 5	Number	269	30,200	820	1,012	8,460	165

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial				Province No.: 1124			Filename: Water Source.xls	
Region Number: XI				Province Name: Davao Del Sur			Form Number: P.4.1	
	Name of Municipalities	Character	Malita			Matanao		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
Implementor	Total number of water sources	Number	86	151	154	187	148	10
	Government Agency	Number	32	151	154	98	148	10
	Private	Number	54			89		
Level	Level I	Number	86	148	148	187	145	8
	Level II	Number			6		1	2
	Level III	Number		3			2	
Ownership	Water District	Number						
	MEO/CEO	Number			1			
	RWSA	Number		3	2		1	1
	BWSA	Number						
	Institution	Number					1	
	Commercial Establishment	Number						1
	Industrial/Agricultural Undertakin	Number						
	Public (Domestic)	Number	32	148	151	98	146	8
Private (Domestic)	Number	54			89			
Abstraction	Submersible/Turbine	Number		3			2	
	Centrifugal	Number						
	Handpump	Number	86	148		187	146	
	Bucket & Rope	Number						
	Free Flowing	Number			154			10
Usage	Drinking	Number	86	151	154	187	148	10
	Washing/Bathing	Number	86	151	154	187	148	10
	Gardening/Irrigation	Number	86	151	154	187	148	10
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number					1	10
	Treated	Number		3				
Production	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number	86	148	154	187	147	10
	Average Capacity >= 100 m ³ /day	Number		3				
	Number of Household < 5	Number						
	Number of Household >= 5	Number	534	13,500	2,355	1,559	12,400	150

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial				Province No.: 1124			Filename: Water Source.xls	
Region Number: XI				Province Name: Davao Del Sur			Form Number: P.4.1	
	Name of Municipalities	Character	Padada			Sta. Cruz		
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	Total number of water sources	Number	107	90		67	68	38
Implic- memor	Government Agency	Number	58	88		45	68	37
	Private	Number	49	2		22		1
Level	Level I	Number	107	88		67	67	29
	Level II	Number					1	8
	Level III	Number		2				1
Ownership	Water District	Number						
	MEO/CEO	Number					1	1
	RWSA	Number		1				
	OWSA	Number		1				
	Institution	Number		1				
	Commercial Establishment	Number						
	Industrial/Agricultural Undertakin	Number						
	Public (Domestic)	Number	58	88		45	67	37
Private (Domestic)	Number	49			22			
Abstraction	Submersible/Turbine	Number		2			1	
	Centrifugal	Number						
	Handpump	Number	107	88		67	67	
	Bucket & Rope	Number						
	Free Flowing	Number						38
Usage	Drinking	Number	107	90		67	68	38
	Washing/Bathing	Number	107	90		67	68	38
	Gardening/Irrigation	Number	107	90		67	68	38
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Cotored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number						38
Production	Treated	Number		2			1	
	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number	107	90		67	67	37
	Average Capacity >= 100 m ³ /day	Number		2			1	1
	Number of Household >= 5	Number	919	3,895		697	321	1,569

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial			Province No.: 1124			Filename: Water Source.xls		
Region Number: XI			Province Name: Davao Del Sur			Form Number: P.4.1		
	Name of Municipalities		Sta. Maria			Sulop		
	Type of Water Source	Character	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
Imple-mentor	Total number of water sources	Number	316	185	33	235	97	1
	Government Agency	Number	220	185	33	145	97	1
Level	Private	Number	96			90		
	Level I	Number	316	184	32	235	96	
	Level II	Number			1			
	Level III	Number		1			1	1
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number		1	1		1	1
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaki	Number						
	Public (Domestic)	Number	220	184	33	145	96	
Private (Domestic)	Number	96			90			
Abstraction	Submersible/Furbine	Number		1			1	
	Centrifugal	Number						
	Handpump	Number	316	184		235	96	
	Bucket & Rope	Number						
	Free Flowing	Number			33			1
Usage	Drinking	Number	316	185	33	235	97	1
	Washing/Bathing	Number	316	185	33	235	97	1
	Gardening/Irrigation	Number	316	185	33	235	97	1
	Big-Scale Irrigation	Number						
	Production	Number						
Water Quality	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number			33			
	Treated	Number		1				1
Production	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number	316	185	33	235	96	1
	Average Capacity >= 100 m ³ /day	Number		1			1	
	Number of Household < 5	Number						
Number of Household >= 5	Number	3,396	7,150	495	2,265	1,340	350	

Provincial Water Supply, Sewerage And Sanitation Sector Plan (PW4SP)							Page: 1 of 1	
Content: Water Source - General Information							Date:	
Data Collection Level: Provincial				Province No. 1124			Filename: Water Source.xls	
Region Number: XI				Province Name: Davao Del Sur			Form Number: P.4.1	
	Name of Municipalities	Character	Sarangani					
	Type of Water Source	Number	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
Implementor	Total number of water sources	Number		23	13			
	Government Agency	Number		23	13			
Level	Private	Number						
	Level I	Number		23	12			
	Level II	Number			1			
	Level III	Number						
Ownership	Water District	Number						
	MEO/CEO	Number						
	RWSA	Number			1			
	BWSA	Number						
	Institution	Number						
	Commercial Establishment	Number						
	Industrial/Agricultural Undertaki	Number						
	Public (Domestic)	Number		23	12			
Abstraction	Private (Domestic)	Number						
	Submersible/Turbine	Number						
	Centrifugal	Number						
	Handpump	Number		23				
	Bucket & Rope	Number						
Usage	Free Flowing	Number			13			
	Drinking	Number		23	13			
	Washing/Bathing	Number		23	13			
	Gardening/Irrigation	Number		23	13			
	Big-Scale Irrigation	Number						
Water Quality	Production	Number						
	No Quality Problem	Number						
	High Iron/Manganese Content	Number						
	High Chloride Content	Number						
	Turbidity/Colored/Smell	Number						
	Polluted/Contaminated	Number						
	Chlorinated	Number			13			
Production	Treated	Number						
	Seasonal Production	Number						
	Average Capacity < 100 m ³ /day	Number		23	13			
	Average Capacity >= 100 m ³ /day	Number						
	Number of Household < 5	Number						
Number of Household >= 5	Number		368	195				

Table 7.3.1 Major References

No.	REPORT/INFORMATION	AGENCY/AUTHOR	CONTENTS	REFERENCE DATA/DESCRIPTION	OUTPUT
1.	Topographic Map (1:250,000)	NAMRIA	topographic contours, natural waterways, road, etc.	highest peak, major river basins	river networks, base maps, river basins of province
2.	Rapid Assessment of Water Supply Sources	NWRB	groundwater availability, well data and inventory	well description, specific capacity, static water levels, well depths	groundwater potential area map
3.	Individual Well Information Database	NWRB	well location, well information	well depths, water levels, well location	individual well location map
4.	Groundwater Resources Investigation	NWRB	groundwater availability area, salt water intrusion, resistivity results	resistivity survey results, potential area for high yielding wells, salt water intrusion	potential area for high yielding wells, salt water intrusion areas
5.	Geological Map of the Philippines	BMGS	lithologic distribution and structural features of the Philippines	geologic formations of the province	provincial geologic maps
6.	Philippine Water Resources Summary Data	NWRB	stream flow and lake and river stage	flow rate measurements and drainage areas of major rivers of the province	river discharges in the province
7.	Road Network Map of the province	DPWH-DEO, PEO, PPDO	municipal boundaries	municipal boundaries, location of barangays	base maps, municipal boundaries
8.	Feasibility Study of Sungao Metro Water District(SMWD)	SMWD/LWUA	recommended water sources for MSWD	well data information, water level	groundwater potential area map
9.	Water Quality Analysis Result	SMWD	water quality results	water quality	water quality map
10.	Assessment of the impact of Mat-I gold mining workings on surface waters and nearshore environment of Sungao City	SMWD Sungao City 1996	extent of mercury pollution of Sungao River and its environment	environmental pollution caused by small scale gold mining in the area	water quality report of Sungao City
11.	Individual Well Inventory	DPWH-DEO,	well location, well information	well depths, water levels	individual well location map
12.	Water Quality Analysis Result	Agusan del Norte	water quality results	water quality evaluation	water quality map
13.	Individual Well Inventory	DPWH-DEO,	well location, well information	well depth, water levels	individual well location map
14.	Spring Inventory	Agusan del Sur	location of springs, discharge	spring data analysis	Spring inventory report

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Table 7.3.1 Major References (Cont.'d)

No.	REPORT/INFORMATION	AGENCY/AUTHOR	CONTENTS	REFERENCE DATA/DESCRIPTION	OUTPUT
15.	Individual Well Inventory	DPWH-DEO, Davao del Sur	well location, well information	well depths, water levels	individual well location map
16.	Spring Inventory		location of springs, discharge	spring discharge, location	spring inventory report
17.	Well Log Records		geologic information	geologic formations of the province	groundwater potential
18.	Water Quality Analysis Result		water quality results	water quality	water quality map
19.	Well Drilling Log Records	DPWH-DEO, Davao Oriental	geologic information	geologic formations of the province	groundwater potential
20.	Individual Well Inventory		well location, well information	well location, well depths	individual well location map
21.	Pumping Test Data		pumping test results	pumping test data	potential area for high yielding
22.	Water Quality Analysis Result		water quality results	water quality	water quality maps
23.	Assessment of the Domestic Water Supply and Sanitation Facilities in Southern Mindanao Vol. III Water and Sanitation. Davao Oriental	NEDA Regional Office November 1997	general information of water resources	surface water, groundwater resources, water quality and quantity	surface water source, groundwater source, water quality reports

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Table 7.3.2 Well Inventory by Municipality

MUNICIPAL	LOCATION	WELL NO. (mbsgs)	DATE	DEPTH (m)	SWL (mbsgs)	DISCHARGE (lps)	DRAWDOWN (m)	SPCCP (lps/m)	USAGE	REMARKS
Bansalan	74 Southeast	BPW-8752	02/13/56	46.03	27.43	0.94		3.130		
Bansalan	Bansalan W.W.	NW#20625		113.40	42.99	1.89	0.76	2.480		
Bansalan	Bansalan W.W. #2	NW206312		54.88	27.44	3.16				
Bansalan	Bo. Barayong	NWS19808	10/24/58	8.23	6.10	0.63		2.100		
Bansalan	Bo. Blocon	NW206181	08/11/61	22.56	12.20	0.50		0.550		
Bansalan	Bo. Casuga	NW206182	08/29/61	9.76	1.22	0.57		1.890		
Bansalan	Bo. Dalawinan	NW206282	06/05/62	10.37	5.49	0.38		0.420		
Bansalan	Bo. Dolo	BPW-8754	04/15/56	36.58	26.52	0.94		1.030		
Bansalan	Bo. Kaleg	NW206010	01/24/63	9.75	6.09	0.31		0.510		
Bansalan	Bo. Kaleg	NW206959	11/22/60	7.62	2.13	0.44		2.200		
Bansalan	Bo. Kinuskusan	NWS14961	02/19/63	6.70	15.24	0.63		0.200		
Bansalan	Bo. Mabuhay	NWS12975	01/10/58	20.01	15.24	1.26		0.410		
Bansalan	Bo. Mabunga	BPW-6067	03/12/54	79.27	73.17	0.95		1.550		
Bansalan	Bo. Managa	BPW-6148	08/28/54	50.00	42.68	0.63		0.069		
Bansalan	Bo. Marber	BPW-8757	09/30/56	65.85						
Bansalan	Bo. Matanao	BPW-8756	04/14/56	13.71	5.48	0.94		1.540		
Bansalan	Bo. Miral	BPW-5961	03/11/54	41.16	34.45	0.95		1.560		
Bansalan	Bo. New Clarin	BPW-12036	05/19/56	6.71	4.57	0.31		0.340		
Bansalan	Bo. New Visayas	BPW-8755	05/11/56	12.50	7.92	0.94		1.540		
Bansalan	Bo. Rizal	NW206283	07/20/62	18.29	1.22	0.63				
Bansalan	Bo. San Miguel	NW206018	09/15/56	39.63	26.83	0.57		0.230		
Bansalan	Bo. Sinawilan	BPW-5892	12/26/53	18.29	12.20	0.95		1.552		
Bansalan	Bo. Barayong	NWS19808	10/24/58	8.23	6.10	0.63		2.100		
Bansalan	Bo. Kinuskusan	NWS14961	02/19/58	6.70	15.24	0.63		0.200		
Bansalan	Buenavista	NW#21121		94.50	88.42	0.95	0.61	1.550		
Bansalan	Kanapolo	NW#20831		67.07	41.16	0.32	3.20	0.100		
Bansalan	Kialeg	NW206010	01/24/63	9.75	6.09	0.31		0.510		
Bansalan	Kialeg	NW206059	11/22/60	7.62	2.13	0.44		2.200		
Bansalan	Km. 69 Matanao	NW206017		35.06	21.95	0.35	2.50	0.140		
Bansalan	Mabuhay	NW#19935		32.01		15.24				
Bansalan	New Clarin	NW#12036		6.71		0.32				
Bansalan	Poblacion	BPW-9753	03/14/56	50.91	41.76	0.95		1.570		
Bansalan	Sinarayan	NW#9751		51.22	38.11	0.95	0.61	1.550		

MUNICIPAL	LOCATION	WELL NO. (mbgs)	DATE	DEPTH (m)	SWL (mbgs)	DISCHARGE (lps)	DRAWDOWN (m)	SPCCP (lps/m)	USAGE	REMARKS
Davao City	Acacia Km. 17, Bunawan	BP205912	09/18/59	99.08	43.29	0.37	6.17	0.060		
Davao City	Agdao	BPW#5232	11/10/50	225.00	1.22	0.38				
Davao City	Agdao	NW#20669		64.02		1.14				
Davao City	Agdao Beach	NW#20639		50.32	0.61	0.51	0.31	1.660		
Davao City	Agdao Public Market	NW#20666		112.80	0.30					
Davao City	Angalan Anda Tugbok	NW#20613	08/04/61	50.61	41.46	0.76	1.23	0.620		
Davao City	Arisano Nafed Abaca Project	NW#5345		91.46	1.83	3.16	7.35	0.430		
Davao City	Baganga	NW#6398		13.72	6.10	0.95	0.61	1.550		
Davao City	Bago Aplaya	BPW#6248	10/14/50	37.50	3.66	0.76	0.30	2.530		
Davao City	Basgo Docemil	BPW#5837	12/15/53	42.68	21.95	1.26	1.83	0.690		
Davao City	Bago Gallera	NW# 5258		26.22		1.58				
Davao City	Bajada	BPW#6394	09/03/54	30.30	0.15	2.65				
Davao City	Bajada	BPW14453	09/02/58	32.01	4.57	3.16	7.62	0.414		
Davao City	Bajada, Davao Regional Hospital	BPW20612	05/18/61	78.35	16.76	3.02	2.75	1.100		
Davao City	Bajada, Regional Medical & Training Center	NW206414	12/09/64	72.26	11.58	2.52	6.15			
Davao City	Bangkai Poblacion	NW#14820		15.24	4.57	0.44	14.67	0.030		
Davao City	Bankerohan Market	NW206616		25.30	4.57	0.76	3.04	0.250		
Davao City	Bankerohan Public Market	NW#15697		31.10	6.10	2.65	3.68	0.720		
Davao City	Bele Band Lacson Calinan	BP206213	11/07/62	57.92	45.73	0.41	0.61	0.670		
Davao City	Blacohon	NW#18153		60.98		0.95				
Davao City	Biao Bulog Tugbok	NW#20591		56.71	35.67					
Davao City	Biao Escuela	BPW#5290	03/29/51	22.87	8.84	1.58	2.72	0.580		
Davao City	Biao Guianga School	BPW10154	04/30/56	61.00	46.70	0.95	1.51	0.630		
Davao City	Biao Malagos	BPW45950	02/01/54	35.37	21.34	0.95	3.06	0.310		
Davao City	Biao Malugbog	NW206325		64.02	33.54	0.35	0.61	0.570		
Davao City	Biao Malugbog	NW206325	12/09/63	46.34	33.54	0.35	0.61	0.570		
Davao City	Biao Talandang	BPW10155	05/31/56	34.75	19.82	1.24	2.13	0.533		
Davao City	Biao Tanda	NW#10157		61.28		0.95				
Davao City	Bo. Acamini, Bunawan	NW-14454	09/30/58	77.74	28.96	0.44	3.14	0.140		
Davao City	Bo. Bago Bangkas Tori	NW-10158	03/15/57	45.43	35.06	1.07	1.51	0.710		
Davao City	Bo. Bago Gallera	BPW#5280	08/14/50	24.70		1.56				
Davao City	Bo. Bago Oshiro	BPW#5538	10/10/52	27.74	5.49	1.14	4.56	0.250		
Davao City	Bo. Bago	BPW#5702	02/19/53	26.50	12.81	1.26		0.380		
Davao City	Bo. Biao Bulog	NW-20591	09/11/59	56.70	35.67	0.44	3.14	0.140		
Davao City	Bo. Biao Tanda Tugbok	BPW10156	07/18/56	53.35	39.94	2.52	36.00	0.070		
Davao City	Bo. Dumalag, Matina Aplaya	NW-14819	01/10/57	7.62	3.66	0.61	0.84	0.725		
Davao City	Bo. Ilang	BPW#4849	01/15/49	35.67	2.44	1.58	6.32	0.250		

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Davao City	Bo. Maligatong	BPW#5601	01/15/53	89.02	67.99	0.76	0.76	0.310		
Davao City	Bo. Manuel Plantation	BPW#5864	01/08/54	34.75	19.21	1.26	3.71	0.340		
Davao City	Bo. San Vicente Crossing	NW206038	08/30/60	10.37	1.52	0.44	0.30	0.470		
Davao City	Bo. Simsimon, Bunawan	NW-21022	04/06/59	77.13	54.27	0.50	0.75	1.670		
Davao City	Bo. Tibungco	BPW#4620	11/30/48	24.40	4.57	1.26	1.52	0.830		
Davao City	Bo. Tibungco Proper, Market Site	BPW14816	10/29/56	9.76	2.13	0.50	0.61	0.820		
Davao City	Bo. Upper Budbud, Bunawan	BP206012	02/26/60	36.58		1.26	1.52	0.830		
Davao City	Bo. Wangan	BPW36019	04/12/54	39.63	26.83	1.26	1.52	0.830		
Davao City	Bo. Nixes Caliran	BPW#6387	03/29/55	26.22	9.76	0.63	1.54	0.410		
Davao City	Budbud	BPW#5199	04/19/50	24.40	4.57	0.95	0.61	1.560		
Davao City	Budbud-Quitlao	BPW#5452	10/06/50	33.54	21.34	0.44	0.61	0.720		
Davao City	Budbud-Quitlao, Bunawan	NW21024		42.10	21.34	0.44	0.62	0.260		
Davao City	Bunawan	BPW#5447	06/07/52	35.06	1.52	0.16	1.84	0.860		
Davao City	Bunawan	BPW#5444	09/12/52	46.04	39.33	1.58				
Davao City	Bunawan	NW206711		64.02	54.88					
Davao City	Cabantian	NW-21025	06/15/59	35.98	21.95	0.44	0.30	1.470		
Davao City	Cabantian-Communal Km. 9	BPW#5320	10/04/57	70.43	60.98	0.63	1.54	0.410		
Davao City	Cabantian Km. 10	BPW#5294	07/31/51	88.41	68.60	0.95	1.54	0.410		
Davao City	Cabantian Km. 12	NWSA5352	11/15/51	54.88	30.49	0.63	1.51	0.630		
Davao City	Cabantian Km. 8	NW# 5728		128.05	114.33	0.76	2.10	0.360		
Davao City	Cadalian	BPW#8064	10/26/56	47.56	45.73	3.79	37.90	0.100		
Davao City	Cadre	NW# 8063		49.40	2.74	3.79	4.57	0.830		
Davao City	Cadre Site	NW-10162	11/26/57	47.26	4.88	3.16	4.27	0.740		
Davao City	Cadre Site	BPW#6369	12/15/55	102.44						
Davao City	Calinan-Balintawan	BPW20833	09/15/58	35.36	24.69	0.32	6.40	0.050		
Davao City	Calinan-Lower Tamugan	NW206338	05/15/64	45.73	38.41	0.32	0.45	0.710		
Davao City	Calinan-Monteverde	BPW#6385	01/29/55	74.08	60.97	0.76	2.13	0.355		
Davao City	Calinan Sirib	BPW#6388	08/31/55	137.80	121.97	0.95	1.83	0.520		
Davao City	Calinan Suarez	BPW#6384	11/15/54	30.48	19.82	1.14	1.52			
Davao City	Calinan Subasta	BPW#16313	07/11/58	41.15	35.97	0.94	0.30	3.130		
Davao City	Calinan Tansing	NW-20649	02/28/65	79.27	44.21	0.63	1.54	0.410		
Davao City	Calinan Upper Lacson I	BP206264	10/31/62	8.53	3.96	0.63				
Davao City	Calilawa Elementary School	BPW20835	02/20/59	50.61	42.68	0.76	1.52	0.500		
Davao City	Catalunan Grande	NW-20636	05/23/63	52.74	39.63	0.25	0.61	0.410		
Davao City	Catalunan Grande #2	BPW#5266	12/31/50	32.62	15.85	0.88	1.49	0.590		
Davao City	Catalunan Pequeno	NW-20626	11/19/62	31.10	12.80	3.16	4.86	0.650		
Davao City	City Pound	BPW#20601	03/15/60	37.19	19.21	0.56	0.92	0.610		
Davao City	Cogon Subasta, Calinan									

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Davao City	Communal School Site	BPW16314	07/09/57	43.60		0.63				
Davao City	Communal Upper Tibungko	NW-16311	02/13/57	41.16	33.23	0.63	31.50	0.020		
Davao City	Crossing Bayabas, Toril	BPW#4958	05/06/49	43.59						
Davao City	Cuchon Biao	NW#10153		46.34	36.89	0.95				
Davao City	Daliao Beach, Toril	NW206319	18/29/63	40.24	3.05	0.38	6.20	0.050		
Davao City	Daliao Girl Scout Regional Camp	BPW20631	02/12/63	8.53	1.83	0.31				
Davao City	Daliao Public Center	BPW#4934	03/09/49	30.49	2.44	0.76				
Davao City	Davao Experimental Sanitation, Bago	BPW20605	11/25/60	35.98	27.74	2.21	4.91	0.450		
Davao City	Davao General Hospital	BPW12044	09/15/56	4.57	0.91	0.95	0.61	1.564		
Davao City	Davao Penal Colony	NW# 5376		111.28	3.66	2.08				
Davao City	Dist. Hall Toril	NW#20621	02/08/62	50.00		3.78				
Davao City	Dominga Crossing	BPW#6383	08/24/54	44.21	28.96	1.14	1.83	0.621		
Davao City	Gumalang, Calinan	BPW#6390	02/02/56	26.22	18.60	0.95	1.83	0.520		
Davao City	Indangan	BPW#5277	03/09/51	115.85	48.78	0.63	1.54	0.410		
Davao City	Indangan	NW# 5279								
Davao City	Indangan Grande	NW-21026	06/16/59	57.01	39.94	0.50	0.61	0.820		
Davao City	Indangan Grande Km. 16	NW205911	08/21/59	64.02	44.81	0.50	0.91	0.550		
Davao City	Indangan Magamot	BPW20604	09/05/60	53.96	47.56	0.50	0.91	0.550		
Davao City	Joacquin Primary School, Calinan	NW206113		64.02	41.16	0.38	1.22	0.310		
Davao City	Km. 6 Buhangin	NW# 5369		41.77	21.34	0.95	1.53	0.620		
Davao City	Km. 9 Puan	BPW#5262	11/29/50	42.07	1.22	1.57	0.61	2.570		
Davao City	Km. 9 Tigatto	NW# 5381		18.30	6.10	1.26	5.73	0.220		
Davao City	Lacson Elementary School, Calinan	NW206212		92.00	16.77	0.51	0.93	0.550		
Davao City	Lapu-lapu St., Agdao	NW206614		67.99		3.16				
Davao City	Lasang	BPW#5167	01/24/50	86.89						
Davao City	Lasang	BPW#5267	12/02/50	32.01						
Davao City	Libay Toril	NW206214	02/25/63	27.44	1.22	0.38				
Davao City	Licanan	BPW#5185	02/16/50	18.29	1.52	0.95	0.30	3.160		
Davao City	Licanan Tagarot	NW# 5818		20.73	2.44	0.95				
Davao City	Lower Mahayas	NW-10161	10/31/57	46.04	22.87	1.26	1.52	0.830		
Davao City	Lower Tagakpan	NW206211	06/08/62	50.00	39.63	0.44	0.92	0.480		
Davao City	Lubogan Crossing	BPW#5206	07/07/50	24.10	13.72	1.58				
Davao City	Ma-a School Site	BPW14821	02/25/57	33.53	0.30	0.63	1.85	0.340		
Davao City	Madapon Reservoir	BPW#5634	01/09/53	60.98	39.63	3.79	0.61	6.210		
Davao City	Madapon Reservoir	BPW#5749	05/11/53	47.50	34.76	3.79	0.61	6.210		
Davao City	Magsaysay Elementary School, Toril	NW206327	09/24/63	31.07	5.49	1.89	0.91	2.070		
Davao City	Mahayag	BPW#5217	06/21/50	54.26	42.68	0.63	1.54	0.410		

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Davao City	Mabayag	NW# 5217		44.21	42.68	0.63	1.54	0.410		
Davao City	Mahayag Elementary School	NW#20671		60.98	38.72					
Davao City	Mantay Pampang	BP206011	02/03/60	42.07	26.22	0.44	1.22	0.360		
Davao City	Manambulan	BPW5452	08/02/52	66.77	51.22	1.26	3.94	0.320		
Davao City	Manambulan Tugbok	NW#10160		61.89	45.43	0.63	3.31	0.190		
Davao City	Mandaue Elementary School, Bunawan	NW206719		8.84	5.49					
Davao City	Mandug	BPW#5486	08/06/52	106.71						
Davao City	Matina	NW# 6395		21.65	2.44	3.14	3.04	1.040		
Davao City	Matina Aplaya Com. School	BPW12045	10/09/56	4.87	1.52	0.63	0.60	1.050		
Davao City	Matina Blvd.	NW# 5316		44.24	25.91					
Davao City	Matina Pangi	BPW14817	11/12/56	9.75	2.43	0.50	0.30	1.660		
Davao City	Matina Pangi School Site	BPW14818	02/06/57	21.65	2.13	0.95				
Davao City	Mindanao Equipment, Depot	NW#20665		18.30	1.22					
Davao City	Mintal	BPW#5281	03/09/51	26.96	14.94	1.58	1.52	1.040		
Davao City	Mudiang Elementary School	BP206014	04/22/60	36.58	31.40	0.44	5.50	0.080		
Davao City	Mudiang Elementary School, Bunawan	NW206414		66.16	31.40	0.44	5.50	0.080		
Davao City	Mudiang, Indangan	NW206013		39.63	29.88					
Davao City	Naming	BPW#5382	02/14/52	38.11	28.35	1.26	4.50	0.280		
Davao City	Naming-Tagakpan	BPW20615	01/15/62	54.44	41.15	0.63	1.54	0.410		
Davao City	National Highway, Bo. Tibungco	BPW#4820	11/30/48	24.40	4.57	1.26	1.52	0.830		
Davao City	Near City High School	BPW#5576	10/15/52	28.96	6.10	3.09	1.22	2.530		
Davao City	Near City High School	NW# 4749		26.22		1.89				
Davao City	New Liliidan, Bunawan	NW-21023	04/01/59	47.26	27.44	0.44	0.92	0.480		
Davao City	Pakiputan St., Bo. Sasa	BPW#5385	04/03/52	21.34	1.83	7.57	1.83	4.410		
Davao City	Pampang	BPW#5261	11/04/50	30.49						
Davao City	Panacan	BPW#5321	07/20/50	24.40	0.61	3.16	1.22	2.590		
Davao City	Pangyan, Calinan	NW206610		79.30	68.60					
Davao City	Piedad, Toril	BPW20622	03/06/62	25.00	13.11	0.44	0.61	0.720		
Davao City	Poblacion	NW#20675		60.98	37.50					
Davao City	Poblacion, Agdao	NW206324	09/27/63	57.93	1.52	0.76				
Davao City	Public Center, Daliao	BPW#4934	03/04/49	38.11	2.43	0.75	0.31			
Davao City	Public Market Km. 18 Bo. Toril	BPW#4890	02/15/49	30.48	4.52	1.26	0.61	2.060		
Davao City	Quezon Elementary School	NW#20673		3.05	0.76					
Davao City	Quitulao	BPW#5421	09/08/50	92.99	18.29	0.44	3.14	0.140		
Davao City	Sanghai	BPW#5402	05/02/52	50.91	44.82	1.26	2.42	0.520		
Davao City	Sasa	BPW16313	04/11/57	16.46		0.63				
Davao City	Sirawan Elementary School	NW206714		8.84	6.40	0.32	0.31	1.040		

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Davao City	Sitio Mulig	NW# 5044		59.45	45.73					
Davao City	So. Beach, Q. Blvd.	NW#20661		3.35	1.83					
Davao City	So. Beach, Q. Blvd.	NW#20662		3.20	1.68					
Davao City	So. Bunawan	NW# 5191		21.34	0.61	3.16	0.61	5.170		
Davao City	So. Latsen, Gumalang	NW206513		76.22	68.60					
Davao City	Sta. Cruz, Bunawan	BP205914	01/13/60	100.61	35.06	0.44	5.50	0.080		
Davao City	Tacunan School Tugbok	NW206313	08/13/63	64.02	33.54	0.44	0.30	1.470		
Davao City	Tagakpan	NW#20614		56.71	31.10	0.51	0.93	0.550		
Davao City	Tagakpan Crossing	BPW#5354	12/22/51	60.98	45.73	1.14	4.56	0.250		
Davao City	Tagakpan Proper	BPW#5331	10/04/51	56.71	28.96	1.01	2.15	0.470		
Davao City	Tagakpan School	BPW#5308	07/31/51	54.88	16.77	0.88	3.03	0.290		
Davao City	Tagakpan Tugbok	NW#20614		40.55	31.10	0.51	0.93	0.350.78		
Davao City	Tagluno Toril	NW#10159		82.60	69.21	0.95	1.22	2.070		
Davao City	Talandang	BPW#5302	05/28/51	36.62	18.29	1.26	1.64	1.660		
Davao City	Talissy Beach, Toril	NW206331	12/23/63	45.42	2.44	0.50	0.30			
Davao City	Talomo	BPW#5274	02/24/81	97.56	1.52	0.76				
Davao City	Talomo Calinan Camp 2	BPW#6382	06/23/54	25.00	12.19	0.94	1.54	0.610		
Davao City	Talomo Cap 2	BPW#6386	02/23/55	23.17	9.14	0.94	1.54	0.610		
Davao City	Talomo Plant 3, Cabalunan Pequeno	BPW20603	08/07/60	38.11	26.83	1.38	2.46	0.560		
Davao City	Talomo Plant Mintal	BPW20602	06/03/60	33.84	20.73	1.89		3.110		
Davao City	Talomo-Calinan Camp 1	NW# 6128		33.80	27.74	0.95	1.22	0.780		
Davao City	Tambangan School Site	NW#14822		5.49	1.22	0.44	0.30	1.450		
Davao City	Tibungco School Site	BPW16312	03/18/57	15.57	4.87	0.63	0.30	2.100		
Davao City	Tibungco South	BPW12982	05/15/67	13.72	1.52	0.31	0.61	0.510		
Davao City	Tugbok	BPW#5291	04/28/51	36.58	1.83	1.01	1.22	0.830		
Davao City	Tungkalan Toril	NW#10157		115.85	99.70	0.95	1.83	0.520		
Davao City	Twin River, Tugbok	NW-20834	01/15/59	85.37	76.22	0.63	1.54	0.410		
Davao City	Upper Gatungan, Bunawan	BP206015	01/04/61	41.76	34.14	2.13				
Davao City	Upper Manamisula, Tugbok	NW206111	08/18/61	71.65	56.40	0.76	3.45	0.220		
Davao City	Upper Sambunoran, Acasia	NW206621	05/11/67	64.02	45.73	0.38	4.75	0.080		
Davao City	Upper Talandang	NW206112	09/30/61	44.21	25.91	0.50	0.91	0.550		
Davao City	Upper Talandang Biao	NW#20612		80.49	25.92	0.51	0.93	0.550		
Davao City	Upper Tibungco	NW-20679		31.07	16.76	0.44	1.57	0.280		
Davao City	Upper Tugbok District	NW-20836	09/13/59	80.49	57.01	0.50	1.85	0.270		
Davao City	Ventura, Calinan	NW-20592	01/01/60	64.32	58.53	0.44	1.83	0.240		
Davao City	Western Tibungco	BP205913	12/02/59	54.87	22.86	0.50	0.61	0.820		
Digos	Balutakay	NAWASA		10.67	2.44	0.63	0.69	0.910		

MUNICIPAL	LOCATION	WELL NO. (mbsgs)	DATE	DEPTH (m)	SWL (mbsgs)	DISCHARGE (lps)	DRAWDOWN (m)	SPCCF (lps/m)	USAGE	REMARKS
Malalag	Sta. Maria	NW#12964		9.45	1.22	1.22	0.30	1.660		
Malalag	Sta. Maria	NW-12964		9.45	1.22	1.22	0.30	1.660		
Malalag	Sta. Maria Proper	NW#19801		21.34	0.92	0.92	1.54	0.330		
Malalag	Taguicon	BP206083	09/08/61	8.53	4.26	4.26	0.60	0.930		
Malalag	Tubig	NW20691	03/23/62	25.91	9.14	9.14	4.89	0.090		
Malalag	Upper Dalagbong Ibo	NW#19804		31.1	12.81	12.81				
Malita	Bagser	NW#14598		10.67	2.13	0.63	3.00	0.210		
Malita	Baluntaya	NW206240		22.87	10.06	0.44	1.52	0.290		
Malita	Bankerahan Market	NW206616	03/13/67	28.35	4.57	0.76	3.04	0.250		
Malita	Bankerahan Public Market	NWS15697	11/21/59	30.49	6.10	2.65	3.68	0.720		
Malita	Bo. Albongog	NW206340	12/15/63	13.41	2.44	0.50	0.61	0.820		
Malita	Bo. Baluntaya	NW206340	11/15/62	22.86	16.76	0.31	0.61	0.510		
Malita	Bo. Bayabas	NW206066	11/03/60	21.34	11.58	0.44	0.61	0.720		
Malita	Bo. Bito	BP206131	01/31/61	16.76	9.14	0.44	0.30	1.460		
Malita	Bo. Bito	BP206136	09/05/61	21.95	16.16	0.38	0.61	0.620		
Malita	Bo. Cabtugan	NWS20786	10/13/58	12.19	7.62	0.44	0.30	1.460		
Malita	Bo. Ehb	NW206135	08/11/61	27.13	21.95	0.38	0.30	1.270		
Malita	Bo. Inaburan	BP206079	12/29/60	16.46	8.53	0.44	0.30	1.460		
Malita	Bo. Kibulacan	NWS21992	04/16/59	21.34	16.76	0.44	0.30	1.460		
Malita	Bo. Kidaladong	BP206132	05/31/61	19.51	14.63	0.32	0.91	0.350		
Malita	Bo. Kidaladong	NWS20787	11/22/58	19.82	9.14	0.44	1.52	0.290		
Malita	Bo. Kinangan	BP206133	06/07/61	7.52	3.66	0.44	0.30	1.470		
Malita	Bo. Lapud	NW206328								
Malita	Bo. Lower Pangian	NWS20644	03/15/64	23.78	6.10	0.50	0.30	1.670		
Malita	Bo. Masandig	BP206134	05/06/61	24.40	7.62	0.50	0.61	0.820		
Malita	Bo. Pangian	BP206078	11/20/60	24.40	20.40	0.22	0.30	1.060		
Malita	Bo. Pangian	NW206138	12/11/61	11.89	4.98	0.44	0.61	0.720		
Malita	Bo. Sikailig	NW206139	12/31/61	9.45	3.66	0.50	0.30	1.670		
Malita	Bo. Site Bolila	NW#14605		16.77	11.89	0.63	1.21	0.520		
Malita	Bo. Tala	NW206238	10/17/62	28.44	22.56	0.38	0.61	0.620		
Malita	Bo. Talogoy	NW206231	09/14/62	14.02	8.84	0.50	0.41	1.220		
Malita	Bo. Talucansa	NW206239	10/31/62	9.45	1.22	0.31	0.61	0.510		
Malita	Bo. Tibulog	NWS20789	01/18/60	7.62	4.27	0.44	0.30	1.460		
Malita	Bo. Tical	NWS20788	01/13/60	15.85	11.58	0.44	0.61	0.720		
Malita	Bo. Tigayab	NW206237	09/29/62	6.71	1.52	0.50	0.30	1.660		
Malita	Bo. Tigayab	NWS21991	04/30/59	13.72	9.14	0.44	0.61	0.720		
Malita	Bo. Timog	BPW20645	05/15/67	25.91	16.76	0.32	5.33	0.060		

MUNICIPAL	LOCATION	WELL NO. (mbgs)	DATE	DEPTH (m)	SWL (mbgs)	DISCHARGE (lps)	DRAWDOWN (m)	SPCCP (lps/m)	USAGE	REMARKS
Malita	Bo. Upper Ticulon	NW206322	08/31/63	22.87	10.10	0.44	1.22	0.360		
Malita	Bo. Kisik	NW206077	10/12/60	26.22	12.20	0.38	1.52	0.250		
Malita	Calarc	NW#16725		10.98	6.10	0.63	0.91	0.690		
Malita	Felis	NW#14603		12.20	0.61	0.76	0.61	1.240		
Malita	Lacaron	NW#14599		8.54	0.61	0.76	0.31	2.480		
Malita	Lampao	NW#14601		10.67	4.88	0.63	0.91	0.690		
Malita	Lundasan	NW#14602		8.54	5.18	0.63	5.73	0.110		
Malita	Lower Binangan	NW206515		8.84	4.27	0.32				
Malita	Lower Kidapalog	NW#20657		20.73	3.96	0.51	0.31	1.660		
Malita	Malita Central School	NW206076		11.28	1.52	0.44	0.30	1.450		
Malita	Mana Elementary School	NW#16726		10.67	1.22	0.76	0.31	2.480		
Malita	Market Site	NW#14596		10.98	0.61	0.76	1.52	0.500		
Malita	Panansot	NW#16728		7.62	3.05	0.57	0.61	0.930		
Malita	Poblacion	NW#14597		8.54	0.92	0.63	1.21	0.520		
Malita	Poblacion	NW#14604		10.98	1.83	0.57	0.31	1.860		
Malita	Sitio Tubalan Sulok South	NW206342	01/13/64	22.87	9.15	0.44	0.61	0.720		
Malita	So. Sumprit	NW#20657		67.99	6.10	0.38	1.52	0.250		
Malita	Sulok North Tubalan	NW206333	04/21/64	11.58	6.10	0.44	0.30	1.470		
Malita	Talagutong Elementary School Site	NW#16729		20.43	12.20	0.57	1.54	0.370		
Malita	Talaud	NW#16724		13.72	10.67	0.57	0.31	1.860		
Malita	Tibulog	NW#20789		7.62	4.27	0.44				
Malita	Tical	NW#20788		15.85	11.59	0.44	0.61	0.720		
Malita	Ticulon Elementary School	NW206086	10/27/60	7.93	1.22	0.57	1.21	0.470		
Malita	Tigyab Proper	NWS20672	02/16/67	16.77	1.22	0.32	0.62	0.520		
Malita	Tingolo	NW#16727		18.30	12.81	0.63	0.60	1.040		
Malita	Upper Inaburan	NW206418	11/24/64	40.85	34.14	0.31	1.24	0.250		
Matanao	Bagumbayan	NW206263	09/10/62	33.54	12.80	0.50	2.38	0.210		
Matanao	Balon-Bun	NW206144		17.40	13.57	0.44	0.15	2.900		
Matanao	Bo. Camanchiles	NW206332	01/30/64	36.58	24.10	0.32	1.52	0.210		
Matanao	Bo. La Suerte	NW206262	07/16/62	28.96	9.76	0.44	0.90	0.490		
Matanao	Bo. San Jose	NW206185	09/29/61	18.29	6.40	0.63	0.30	2.100		
Matanao	Bo. San Vicente	NWS20627	03/08/63	107.90	96.03	0.63	3.31	0.190		
Matanao	Bo. Bimagan	BPW-8751	12/24/55	51.21	38.10	0.94	0.60	1.560		
Matanao	Bo. Sinawilan	NW206017	07/21/60	35.06	21.95	0.35	2.44	0.143		
Matanao	Camanchiles	NW206337		36.59	24.09	0.32	1.52	0.210		
Matanao	New Visayas No. 3	NW206184	09/21/61	20.73	5.49	0.63	0.30	2.100		
Padada	Bo. Guihing	BPW-6151	12/18/54	15.24	6.10	0.95	0.31	3.104		

MUNICIPAL	LOCATION	WELL NO. (mbsgs)	DATE	DEPTH (m)	SWL (mbsgs)	DISCHARGE (lps)	DRAWDOWN (m)	SPCCP (lps/m)	USAGE	REMARKS
Padada	Bo. Limonzo	BPW		65.24	5.80	0.95	0.91	1.040		
Padada	Bo. Limonzo	NW206149	09/29/61	29.57						
Padada	Bo. Malinzo	BP206141	01/19/61	13.71	7.31	0.44	0.30	1.470		
Padada	Bo. Piapge	BP206011	12/31/60	4.57	1.06	0.44		1.460		
Padada	Bo. Solon Vale	BPW-6151	11/18/54	18.29	3.66	0.65	1.53	0.415		
Padada	Katipunan School Site	NW#19866		19.52	2.13					
Padada	Kiblawan	NW#12969		32.01	5.49	0.38	2.10	0.180		
Padada	Lower Limonzo	NW206150	11/24/61	7.62	1.52	0.50	0.30	1.680		
Padada	Padada Water Works	NWS20623	04/12/62	19.81	2.13	2.52		5.600		
Padada	Padada Water Works	NWS20624	04/30/62	20.43	2.13	2.52		5.520		
Padada	Poblacion	BPW-6152	03/16/55	107.32	6.10	1.58		2.590		
Padada	Poblacion	NW206056	07/25/60	64.63	3.96	0.37		0.610		
Padada	Sulop	NW# 4616		34.76	1.52	2.52	2.74	0.920		
Padada	Talad Elementary School	NW#12968		14.02	2.44	0.38	0.31	1.240		
Sta. Cruz	Bo. Astorga	NWS206062	01/10/61	12.19	1.21	0.44		1.460		
Sta. Cruz	Bo. Baclayan	BPW-4530	03/31/48	25.61	0.30	0.09		0.150		
Sta. Cruz	Bo. Baroy	NWS14956	01/18/57	48.78	12.50					
Sta. Cruz	Bo. Bato	BPW-5430	08/06/52	51.22	39.63		0.43			
Sta. Cruz	Bo. Darong Landing	BPW14954	01/14/57	38.11	4.88					
Sta. Cruz	Bo. Inawayan	NWS14957			51.82		0.04			
Sta. Cruz	Bo. Lantiam Darong	NWS14958	05/03/57	19.81	1.82					
Sta. Cruz	Bo. Lumboy	BP206055	01/18/61	7.01	1.52		1.05			
Sta. Cruz	Bo. Quinokol	BPW14953	12/05/57	16.76			2.93			
Sta. Cruz	Bo. Tibalagan	BPW-4529	01/22/48	35.06	24.40		3.10			
Sta. Cruz	Coronon	NW#14955		19.82	17.38					
Sta. Cruz	Tzum Beach	NW206063	01/15/61	13.71	1.52		1.46			
Sta. Maria	Poblacion Sta. Maria			100.00		1.26				
Sulop	Bagumbayan	NW206084	08/15/60	25.30	16.76	0.50		0.540		
Sulop	Bo. Kiblagon Elementary School	NW206165	09/29/61	48.78	17.68	0.44		0.280		
Sulop	Bo. Tanwaling	BP206142	02/01/61	15.54	6.40	0.50		1.660		
Sulop	Kiblawan	NW206148		32.93	21.95	0.5	1.00	0.500		
Sulop	Manual	BP206146	06/15/61	33.53	22.95	0.5		0.320		
Sulop	Maylangit Primary School	NW206143		18.29	0.61	0.44	1.83	0.240		
Sulop	Poblacion	BPW-4616	05/21/48	34.76	1.52	2.52		0.920		
Sulop	St. Nino	NW206147		33.84	23.48	0.44	0.30	1.450		
Sulop	Talsa Elementary School	NW206145		13.42	3.05	0.50				

Table 7.3.3 Water Quality Analysis Data

Sampling Water Sources: Springs		Provincial Number: Davao del Sur									
Region Number: XI		Provincial Name: Davao del Sur									
No.	Sampling Site	Sampling Date	pH	Color (PCU)	Turbidity (FTU)	Fe (mg/liter)	Mn (mg/liter)	Coliform Bacteria (count number x100)	Total Bacteria (count number)		
1	Astorga, Sta. Cruz	April 15, 1998	7.1		0.6	0.0	0.00	10,000	100		
2	Barayong, Magsaysay	April 17, 1998	7.7		10.7	0.0	0.00	5,000	50		
3	Kinuskusan, Bansalan	April 17, 1998	7.7		9.0	0.0	0.00	5,000	50		
4	Narvasa, Magsaysay	April 17, 1998	7.9		10.3	1.0	0.00	3,000	30		
5	Ragorob, Sta. Cruz	April 17, 1998	7.9		8.1	0.0	0.00	10,000	100		
6	Batangon, Binaton, Digos	April 21, 1998	7.3		2.9	1.0	0.00	3,000	30		
7	Kapatagan, Digos	April 21, 1998	7.3		14.7	0.0	0.00	3,000	30		
8	Matti, Binaton, Digos	April 21, 1998	7.5		10.4	1.0	0.00	5,000	50		
9	Darapuay, Bansalan	April 17, 1998	7.9		7.6	0.0	0.00	5,000	50		
10	Bangkal, Matanao	April 17, 1998	7.8		14.4	0.0	0.00	3,000	30		
11	Ibo, Sta. Maria	April 24, 1998	8.1		11.2	2.0	0.00	1,000	10		
12	Lawa, Don Marcelino	April 24, 1998	7.9		1.4	0.0	0.00	1,000	10		

Table 7.3.3 Water Quality Analysis Data

Provincial Number: Davao del Sur									
Provincial Name: Davao del Sur									
Sampling Water Sources: Deep Wells (Level I / II / III)									
Region Number: XI									
No.	Sampling Site	Sampling Date	pH	Color (PCU)	Turbidity (FTU)	Fe (mg/liter)	Mn (mg/liter)	Coliform Bacteria (count number x100)	Total Bacteria (count number)
1	Astorga, Sta. Cruz (L.I)	April 15, 1998	7.8		1.2	0.0	1.00	3,000	30
2	Magsaysay, Pob. Magsaysay (L.II)	April 15, 1998	8.4		7.8	5.9	0.00	10,000	100
3	Mabini Ext., Digos	April 17, 1998	8.1		11.1	1.0	0.00	3,000	30
4	Cabligan, Matanao WW	April 17, 1998	8.3		5.8	0.0	0.00	1,000	10
5	Old capital, Mati WW	April 24, 1998	7.3		21.5	1.0	0.00	10,000	100
6	Kapoc Matanao (L.I)	April 17, 1998	7.7		13.5	0.0	0.00	5,000	50
7	Poblacion, Matanao (L.II)	April 17, 1998	9.37		7.5	0.0	0.00	3,000	30
8	Poblacion, Malita (L.II)	April 24, 1998	8.5		2.2	0.0	0.00	30,000	300
9	Pamungot, Malita (L.I)	April 24, 1998	8.2		21.4	13.0	0.00	100	10
10	Lacaron, Malita (L.I)	April 24, 1998	7.9		2.8	0.0	0.00	1,000	10
11	New capital, Mati, Digos WW	April 24, 1998	7.3		18.0	0.0	0.00	30,000	300
12	Matti Bliss, Digos	April 24, 1998	7.3		4.7	0.0	0.00	10,000	100
13	Astorga Phase II, Sta. Cruz WW	April 24, 1998	7.3		28.1	0.0	0.00	3,000	30
14	Poblacion, Sta. Maria WW	April 24, 1998	8.5		8.2	0.0	0.00	3,000	30
15	Poblacion, Padada WW	April 24, 1998	8.4		5.7	1.0	0.00	10,000	100
16	Poblacion, Sulop WW	April 24, 1998	8.5		16.2	0.0	0.00	N.A.	No detected
17	Piapo, Padada WW	April 24, 1998	8.5		4.5	0.0	0.00	10,000	100
18	Malilag W	April 24, 1998	8.1		8.8	0.0	0.00	10,000	100
19	Sta. Maria (L.II)	April 24, 1998	8.5		5.4	1.0	0.00	30,000	300
20	Poblacion, Sulop (L.I)	April 24, 1998	8.2		10.5	0.0	0.00	3,000	30
21	Ibo, Sta. Maria (L.I)	April 24, 1998	8.4		6.6	0.0	0.00	10,000	100
22	Baturakay, Hagonoy	April 24, 1998	8.5		4.5	0.0	0.00	1,000	10
23	Zone I, Digos (L.I)	April 24, 1998	8		6.2	0.0	0.00	3,000	30
24	Aplaya-Guiling, Hagonoy WW	April 24, 1998	8		3.2	0.0	0.00	3,000	30
25	Kiblawan Water District (L.III)	April 24, 1998	8.3		2.3	0.0	0.00	5,000	50
26	Sinayawan, Hagonoy WW	April 30, 1998	7.9		2.4	0.0	0.00	3,000	30
27	Poblacion, Hagonoy WW	April 30, 1998	7.4		4.5	0.0	0.00	1,000	10
28	Lapulabao Hagonoy (L.I)	April 30, 1998	6.7		4.5	0.0	0.00	1,000	10
29	Guiling Hagonoy Water District (L.III)	April 30, 1998	8.4		4.0	0.0	0.00	3,000	30
30	Poblacion, Hagonoy WW	April 30, 1998	7.7		2.0	0.0	0.00	10,000	100
31	La Union, Hagonoy (L.I)	April 30, 1998	8		34.0	0.0	0.00	1,000	10
32	San Agustin (L.I)	May 7, 1998	7.5		4.9	0.0	0.00	N.A.	N.A.

Note: N.A.= Not available

Table 7.5.1 Surface Water Quality

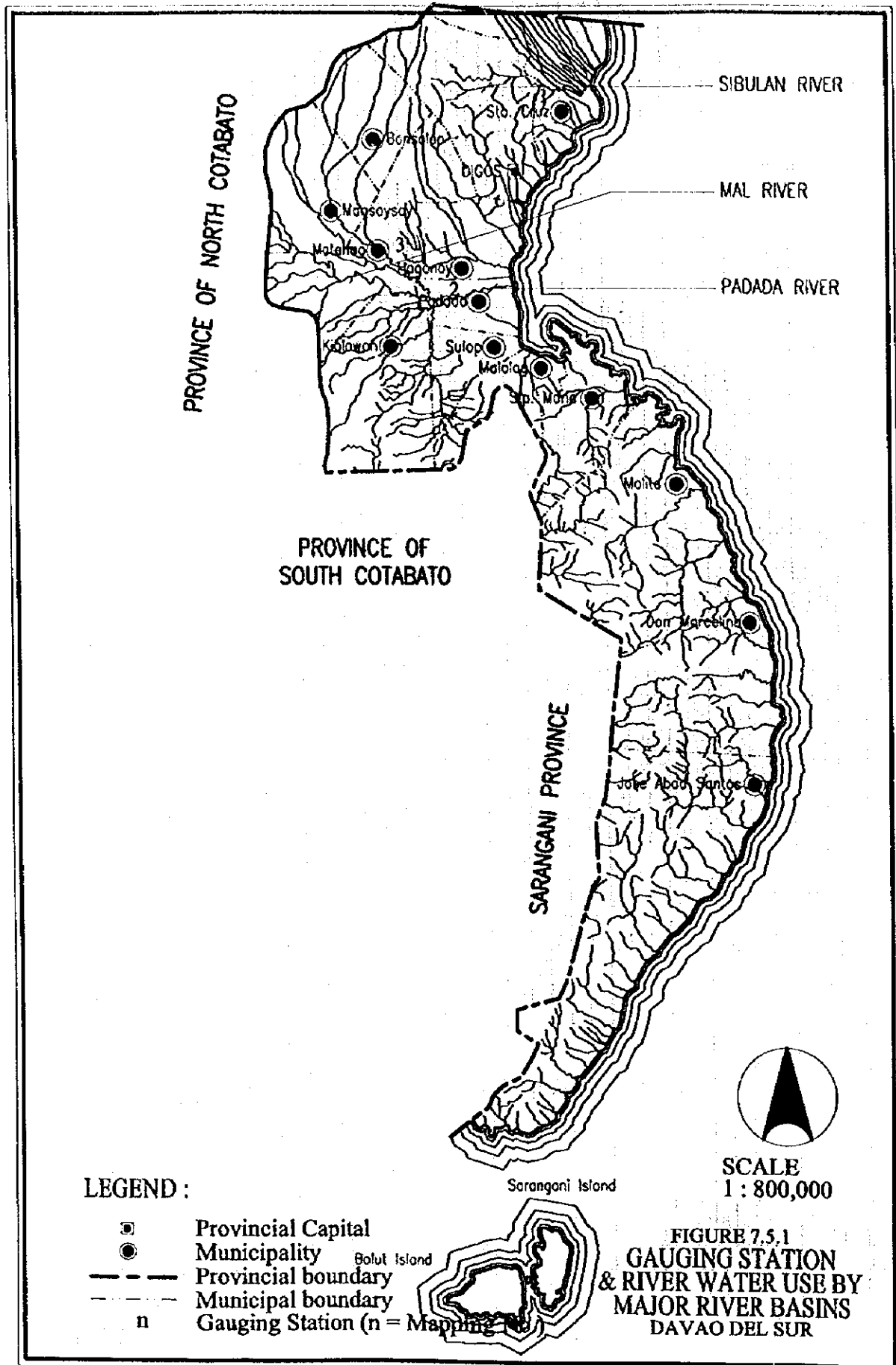
Major Surface Water	Surface Water Information			Parameter																SW Pollutant in upstream
	Stream & Main System	Sampling		Color TCU	pH	D.Oxy. mg/l	BOD mg/l	SS mg/l	TDS mg/l	MBAS mg/l	OIG mg/l	N mg/l	P mg/l	Coh. MPN/100ml	Cl mg/l	Cu mg/l	PNSDW, 1994			
		Location	Date (m/d/y)														Tur. NTU	Fe mg/l	Mn mg/l	
DENR Water Quality Criteria for Fresh Water																				
Sibulan	Astorga	Santa Cruz	15-Apr-98	-	7.3	-	-	-	-	-	-	-	-	-	50	-	-	3.3	nil	nil
	Ragobrob	Santa Cruz	17-Apr-98	-	8.0	-	-	-	-	-	-	-	-	-	100	-	-	4.9	nil	nil
	Sibulan Main	Digos																8.9	1.0	nil
Digos	Stream-A	Santa Cruz	17-Apr-98	-	7.5	-	-	-	-	-	-	-	-	-	50	-	-	-	-	-
		Digos																		
		Matanao																		
Hagonoy	Digos Maan	Hagonoy	24-Apr-98	-	7.9	-	-	-	-	-	-	-	-	-	10	-	-	8.8	nil	nil
		Digos																		
		Bansalan																		
Padada	Marber-Maanao	Digos	17-Apr-98	-	7.7	-	-	-	-	-	-	-	-	-	50	-	-	7.8	nil	nil
		Bansalan																		
		Magsaysay	17-Apr-98	-	7.9	-	-	-	-	-	-	-	-	-	100	-	-	7.5	nil	nil
Stream-C		Matanao																		
		Hagonoy																		
		Digos																		
Latan		Padada																		
		Kiblawan																		
		Padada	17-Apr-98	-	8.5	-	-	-	-	-	-	-	-	-	50	-	-	7.2	nil	nil
Padada Main		Matanao																		
		Padada																		

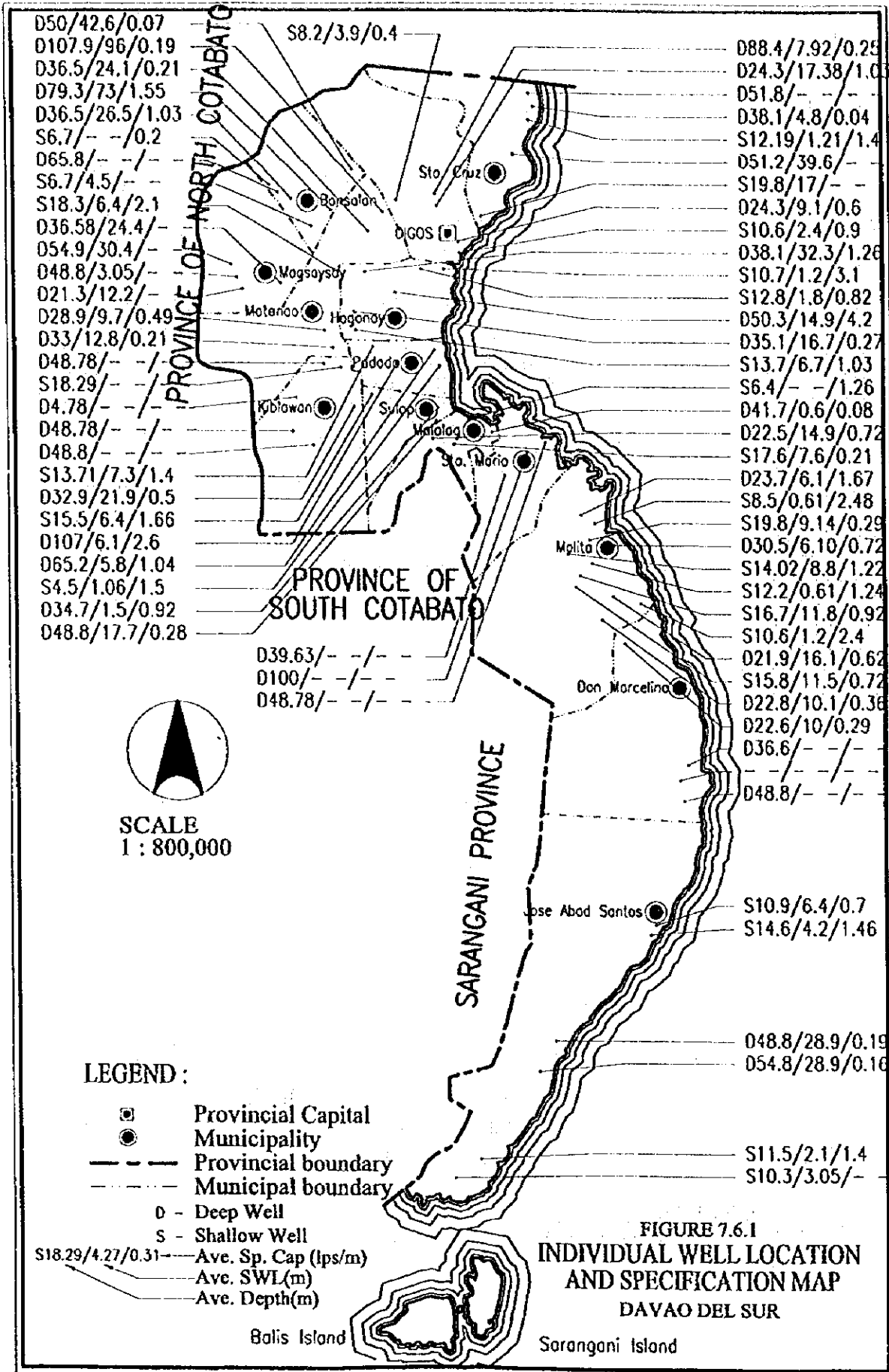
Source: Water quality results were collected from respective Water Districts or analyzed by PSPT on site in the field survey using procured instruments.

Notes: Sampling point is located at upstream boundary of each river in respective municipalities. If several streams are present in an area, the stream nearest from populated area shall be selected. If there is no upstream, sampling point shall be selected near populated area.

Remarks: Class AA - Public Water Supply Class-I. Intended for waters having watersheds which are uninhabited and otherwise protected and which require only approved disinfection in order to meet the PNSDW. Class A - Public Water Supply Class-II. Sources of water supply that will require complete treatment (coagulation, sedimentation, filtration & disinfection) in order to meet the PNSDW.

DISK NAME : DAVAO DEL SUR(DISK1)
 FILENAME : DAVAO-DELSUR(A4)

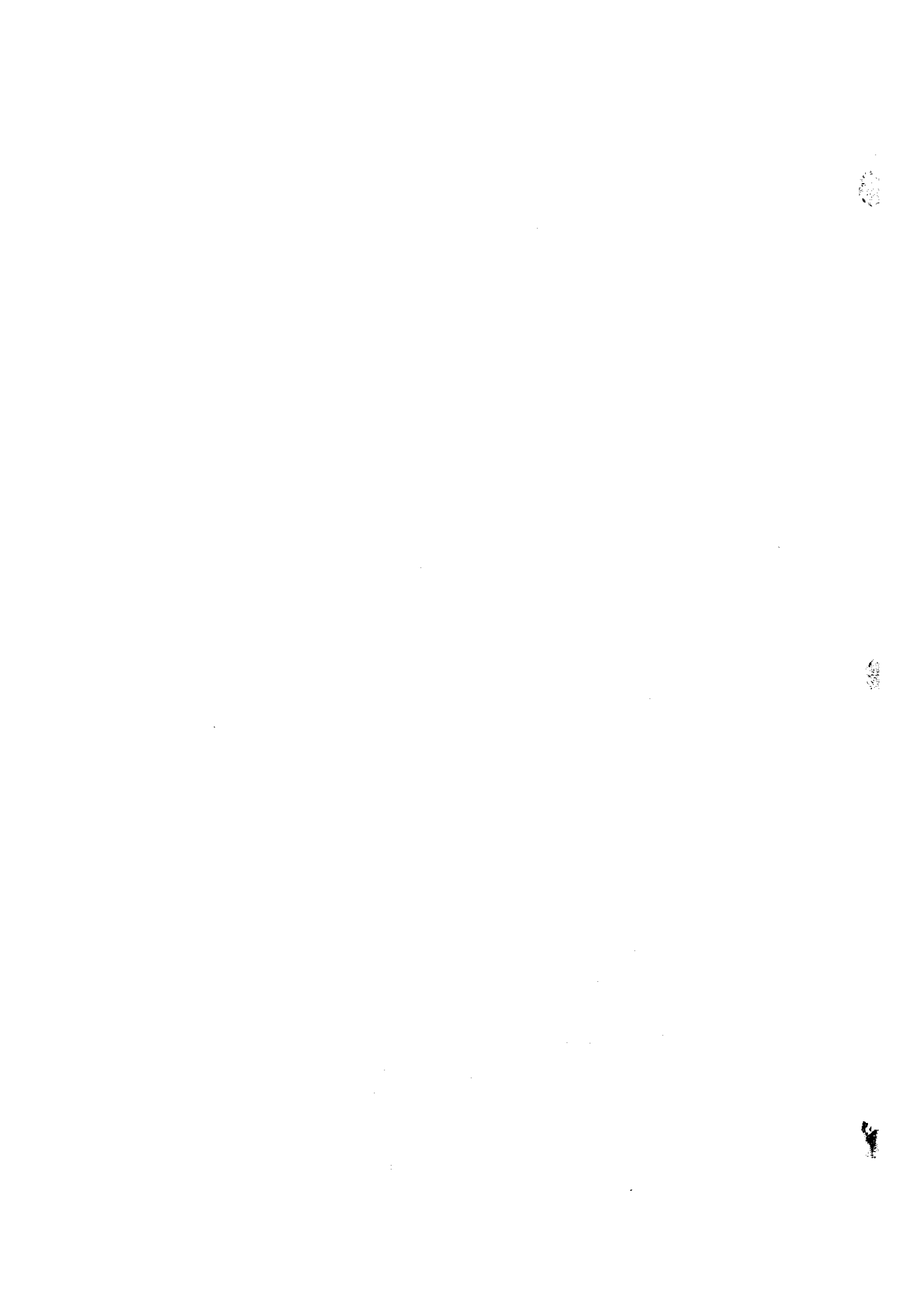




DISK NAME : DAVAO-BELSUR(DISK2)
 FILENAME : DAVAO-BELSUR(MLSM)







JICA