Table 3.5.2 Number of Health Facilities and Pracitioners by Municipality

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Health - Facility and Practitioner	Date:	Page No. 1 of 1	Filename: health.xls
Data Collection Level: Municipal	Prov. No. : 0250		Shtname: (M)FacilityPractioner
Region Number: 02	Prov. Name: Nueva Vizcaya		Form No. : M 3.2

NEDA Geographic Code	Municipality	Number of Facilities			Number of Medical Practioners			
		Hospital	RHU	BHS	Doctors	Nurses	Midwives	Dentists
025015	Alfonso Castañeda	0	1	3	1	1	3	0
025001	Ambaguio	0	1	4	0	0	4	0
025002	Aritao	0	1	8	1	1	8	1
025003	Bagabag	0	1	5	1	1	5	0
025004	Bambang	1	1	9	7	14	9	2
025005	Bayombong	1	1	9	41	52	9	3
025006	Diadi	0	1	4	1	1	4	0
025007	Dupax del Norte	1	1	7	5	6	7	0
025008	Dupax del Sur	0	1	6	2	2	6	1
025009	Kasibu	1	1	6	2	5	6	0
025010	Kayapa	1	1	12	2	5	12	0
025011	Quezon	0	1	4	1	1	4	0
025012	Santa Fe	0	1	5	1	2	5	0
025013	Solano	0	1	9	1	0	9	1
025014	Villaverde	0	1	5	1	1	5	0
Provincial Total		5	15	96	67	92	96	8

Table 3.6.1 Municipal Solid Waste Collection and Disposal by Municipality

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content : Environment Sanitation - Municipal Solid Waste Collection and Disposal									Filename: sanit.xls
Data Collection Level: Municipal		Prov. No. : 0250		Date:			Shtname: (M) SolidWaste		
Region Number: 02		Prov. Name: Nueva Vizcaya				Page No. : 1 of 1			Form No. : M 6.5
NEDA Geo-grahic Code	Municipality	With Municipal Service					Without Service		
		Collections Trucks			Disposal		Manner of Disposal		
		Open Dump Trucks	Closed Type Trucks	Total Units	No. of HHs Served by Open Dump Site	No. of HHs Served by Sanitary Landfill	Dumping (Land and Water)	Burying	Composting
		#	#	#	#	#	#	#	#
025015	Alfonso Castañeda	0	0	0	0	0	97	139	586
025001	Ambaguio	0	0	0	0	0	243	0	1,530
025002	Aritao	2	0	2	490	0	45	2,938	1,978
025003	Bagabag	1	0	1	115	0	480	1,857	3,163
025004	Bambang	1	1	2	823	0	975	1,442	4,327
025005	Bayombong	1	1	2	1,126	0	1,190	2,015	4,702
025006	Diadi	0	0	0	0	0	361	513	1,636
025007	Dupax del Norte	1	0	1	247	0	227	423	3,661
025008	Dupax del Sur	1	0	1	452	0	297	313	1,511
025009	Kasibu	0	0	0	0	0	669	357	3,930
025010	Kayapa	0	0	0	0	0	407	347	3,143
025011	Quezon	0	0	0	0	0	222	557	1,920
025012	Santa Fe	0	0	0	0	0	360	593	1,447
025013	Solano	1	1	2	4,035	0	1,230	1,211	3,303
025014	Villaverde	0	0	0	0	0	368	896	1,594
Provincial Total		8	3	11	7,288	0	7,171	13,601	38,431

4. EXISTING FACILITIES AND SERVICE COVERAGE

4.2 Sanitation and Sewerage

4.2.3 Sanitation Facilities and Service Coverage

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Environment Sanitation - Household Toilets | Date: | Page No.: 1 of 1 | Filename: sanit.xls

Data Collection Level: Municipal | Prov. No.: 0250 | Shtname: (M) Household Toilets

Region Number: 02 | Prov. Name: Nueva Vizcaya | Form No.: M.6.1

NEDA Geo-graphic Code	Municipality	Number of Households Using Sanitary Toilet								Unsanitary Latrine			No. Facilities		
		Water Sealed				Sanitary Pit Latrine (VIP)		Total							
		Flush		Pour Flush											
		Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Total	Urban	Rural	Total
025015	Alfonso Castaneda	0	0	0	341	0	137	0	478	0	227	227	0	117	117
025001	Ambaguio	0	0	0	164	0	541	0	705	0	336	336	0	732	732
025002	Aritao	50	5	1,678	2,210	0	0	1,728	2,215	130	415	545	306	657	963
025003	Bagabag	58	0	2,249	1,964	264	192	2,571	2,156	121	358	479	107	302	409
025004	Bambang	58	14	2,129	3,354	0	358	2,187	3,726	121	642	763	315	576	891
025005	Bayombong	153	26	3,812	2,526	24	143	3,989	2,695	158	646	804	375	1,170	1,545
025006	Diadi	0	0	124	817	117	333	241	1,150	75	218	293	50	776	826
025007	Dupax del Norte	0	0	1,097	2,960	0	0	1,097	2,960	48	184	232	39	230	269
025008	Dupax del Sur	6	0	622	802	0	85	628	887	4	159	163	0	895	895
025009	Kasibu	0	0	0	2,104	0	663	0	2,767	0	1,652	1,652	0	537	537
025010	Kayapa	4	2	135	1,315	0	387	139	1,704	0	361	361	0	1,692	1,692
025011	Quezon	0	0	0	1,268	0	707	0	1,975	0	421	421	0	303	303
025012	Santa Fe	25	0	155	888	8	190	188	1,078	12	539	551	39	544	583
025013	Solano	358	7	3,838	3,396	646	364	4,842	3,767	318	363	681	379	110	489
025014	Villaverde	25	14	650	939	0	480	675	1,433	28	366	394	75	281	356
Provincial Total		737	68	16,489	25,048	1,059	4,580	18,285	29,696	1,015	6,887	7,902	1,685	8,922	10,607

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Environment Sanitation - School Toilets	Date:	Page No.: 1 of 1	Filename: sanit.xls
Data Collection Level: Municipal	Prov. No. : 0250		Shtname: (M) School Toilets
Region Number: 02	Prov. Name: Nueva Vizcaya		Form No. : M 6.2

NEDA Geo-graphic Code	Municipality	Number of School			Number of Student			Number of Toilets						
								Sanitary			Unsanitary			Total Units
		Public	Private	Total	Public	Private	Total	Public	Private	Total	Public	Private	Total	
025015	Alfonso Castañeda	9	0	9	1,003	0	1,003	11	0	11	3	0	3	14
025001	Ambaguio	9	0	9	994	0	994	0	0	0	0	20	20	20
025002	Aritao	24	3	27	4,460	2,395	6,855	75	14	89	0	0	0	89
025003	Bagabag	26	2	28	4,728	1,276	6,004	221	8	229	0	0	0	229
025004	Bambang	27	1	28	8,625	1,733	10,358	124	18	142	12	0	12	154
025005	Bayombong	21	1	22	8,970	1,081	10,051	79	22	101	2	0	2	103
025006	Diadi	19	0	19	3,598	0	3,598	48	0	48	10	0	10	58
025007	Dupax del Norte	20	0	20	4,899	0	4,899	28	0	28	14	0	14	42
025008	Dupax del Sur	18	1	19	2,351	634	2,985	12	0	12	6	0	6	18
025009	Kasibu	35	0	35	4,757	0	4,757	10	0	10	48	0	48	58
025010	Kayapa	33	0	33	3,599	0	3,599	39	0	39	30	0	30	69
025011	Quezon	17	0	17	2,868	0	2,868	50	0	50	6	0	6	56
025012	Santa Fe	16	1	17	2,511	238	2,749	26	2	28	11	0	11	39
025013	Solano	29	4	33	8,692	2,536	11,228	83	16	99	0	0	0	99
025014	Villaverde	12	1	13	3,242	445	3,687	36	10	46	0	0	0	46
Provincial Total		315	14	329	65,297	10,338	75,635	842	90	932	142	20	162	1,094

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Environment Sanitation - Public Toilets	Date:	Page No.: 1 of 1	Filename: sanit.xls
Data Collection Level: Municipal	Prov. No. : 0250	Shtname: (M) Public Toilets	
Region Number: 02	Prov. Name: Nueva Vizcaya		Form No. : M 6.3

NEDA Geo-graphic Code	Municipality	Public Utilities											
		Public Markets				Jeepney/Bus Terminal/Airport				Parks/Playground			
		Number	Number of Toilets			Number	Number of Toilets			Number	Number of Toilets		
			Sanitary	Unsanitary	Total		Sanitary	Unsanitary	Total		Sanitary	Unsanitary	Total
025015	Alfonso Castaneda	1	1	0	1	0	0	0	0	1	0	0	0
025001	Ambaguio	1	0	0	0	0	0	0	0	0	0	0	0
025002	Aritao	1	2	0	2	0	0	0	0	0	0	0	0
025003	Bagabag	1	2	0	2	1	6	0	6	0	0	0	0
025004	Bambang	2	4	0	4	0	0	0	0	1	0	0	0
025005	Bayombong	2	4	0	4	0	0	0	0	2	2	0	2
025006	Diadi	1	4	0	4	0	0	0	0	0	0	0	0
025007	Dupax del Norte	3	6	0	6	0	0	0	0	0	0	0	0
025008	Dupax del Sur	1	2	0	2	0	0	0	0	1	0	0	0
025009	Kasibu	1	1	0	1	0	0	0	0	0	0	0	0
025010	Kayapa	4	4	2	6	0	0	0	0	1	0	1	1
025011	Quezon	0	0	0	0	0	0	0	0	0	0	0	0
025012	Santa Fe	5	6	2	8	0	0	0	0	1	2	0	2
025013	Solano	1	2	0	2	1	2	0	2	1	2	0	2
025014	Villaverde	1	0	0	0	0	0	0	0	0	0	0	0
Provincial Total		25	38	4	42	2	8	0	8	8	6	1	7

7 WATER SOURCE DEVELOPMENT

7.1 General

Table 7.1.1
Water Source Information

Content: Water Sources - General Information	Page : 1 of 1	Date:	Filename: h20-res.xls
Data Collection Level: Municipal	Prov. No. : 0250	Shtname: (M) General Information	
Region Number: 02	Prov. Name: Nueva Vizcaya		Form No. : M 4.1

	Municipal Number/Municipal Name ⇨				
	Type of Source ⇨		**Shallow Well**	**Deep Well**	**Spring**
General Information	1/ Total Number of Source	#	15,077	1,143	425
	Implementation				
	2/ Government Agency	#	424	512	410
	3/ Private	#	14,653	631	15
	Usage				
	4/ Drinking	#	14,846	807	425
	5/ Washing/Bathing	#	14,846	807	425
	6/ Gardening	#	14,846	778	422
	7/ Irrigation	#	9	1	17
	8/ Industrial	#	0	9	0
	Water Quality				
	9/ High Iron/Manganese Content	#	0	0	0
	10/ High Chloride Content	#	0	0	0
	11/ Turbidity/Color/Smell	#	0	0	0
	Production				
	12/ Less/No Water in dry season	#	2,469	97	135
	13/ Usable through the year	#	12,374	710	338
Well Information	**Technical**				
	14/ Diameter < 100 mm (4")	#			
	15/ Diameter >= 100 mm (4")	#			
	16/ SWL < 5 m below ground	#	0	0	0
	17/ SWL >= 5 m below ground	#	0	0	0
	18/ Specific Capacity < 3 m^3/hr/m	#			
	19/ Specific Capacity >= 3 m^3/hr/m	#			
	20/ B-Value < 1,000 s/m^3	#			
	21/ B-Value < 1,000 s/m^3	#			
	22/ C-Value < 60,000 s^2m^6 (Well Loss Const.	#			
	23/ C-Value >= 60,000 s^2m^6	#			
Aquifer Information	**Technical**				
	24/ T-Value < 0.001 m^2/s	#			
	25/ T-Value >= 0.001 m^2/s	#			
	26/ S-Value < 0.01	#			
	27/ S-Value >= 0.01	#			
	Geology				
	28/ Alluvial Formation	#			
	29/ Volcanic Formation	#			
	30/ Limestone Formation	#			
	31/ Sandstone Formation	#			
	32/ Other Sediment Formation	#			
Spring Info.	**Technical**				
	33/ Minimum Yield < 10 m^3/h	#	0	0	491
	34/ Minimum Yield >= 10 m^3/h	#	0	0	21
	Other				
	35/ Tapped Using Gravity	#	0	0	425
	36/ Undeveloped Using Gravity	#	0	0	40
	37/ Untapped Spring	#	0	0	6

LEGEND: # - Specify figure

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information			Page : 1 of 1	Date:		Filename: h20-res.xls		
Data Collection Level: Municipal			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya			Form No. : M 4.1		
	Municipal Number/Municipal Name ⇨		Alfonso Castaneda/025015			Ambaguio/025001		
	Type of Source ⇨		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	13	17	12	0	0	31
	Implementation							
	2/ Government Agency	#	7	13	12			31
	3/ Private	#	6	4				
	Usage							
	4/ Drinking	#	11	10	12			31
	5/ Washing/Bathing	#	11	10	12			31
	6/ Gardening	#	11	10	12			31
	7/ Irrigation	#			1			
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	6		4			12
	13/ Usable through the year	#	5	10	8			19
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 $m^3/hr/m$	#						
	19/ Specific Capacity >= 3 $m^3/hr/m$	#						
	20/ B-Value < 1,000 s/m^2	#						
	21/ B-Value < 1,000 s/m^2	#						
	22/ C-Value < 60,000 s^2/m^5 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2/m^5	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			12			31
	34/ Minimum Yield >= 10 m^3/h	#						
	Other							
	35/ Tapped Using Gravity	#			12			31
	36/ Undeveloped Using Gravity	#						
	37/ Untapped Spring	#						

LEGEND: # - Specify figure

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information			Page : 1 of 1	Date:		Filename: h20-res.xls		
Data Collection Level: Municipal			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya			Form No. : M4.1		
	Municipal Number/Municipal Name ⇨		Aritao/025002			Bagabag/025003		
	Type of Source ⇨		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	495	144	26	1,036	285	7
	Implementation							
	2/ Government Agency	#	25	73	25	43	68	7
	3/ Private	#	470	71	1	993	217	
	Usage							
	4/ Drinking	#	462	92	26	1,033	207	7
	5/ Washing/Bathing	#	462	92	26	1,033	207	7
	6/ Gardening	#	462	92	24	1,033	207	7
	7/ Irrigation	#			4		1	1
	8/ Industrial	#					1	
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	9		11	31		2
	13/ Usable through the year	#	453	92	16	1,002	207	5
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 $m^3/hr/m$	#						
	19/ Specific Capacity >= 3 $m^3/hr/m$	#						
	20/ B-Value < 1,000 s/m^3	#						
	21/ B-Value < 1,000 s/m^3	#						
	22/ C-Value < 60,000 s^2m^6 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2m^6	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			27			7
	34/ Minimum Yield >= 10 m^3/h	#						
	Other							
	35/ Tapped Using Gravity	#			26			7
	36/ Undeveloped Using Gravity	#						3
	37/ Untapped Spring	#						

LEGEND: # - Specify figure

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information			Page : 1 of 1		Date:		Filename: h20-res.xls	
Data Collection Level: Municipal			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya			Form No. : M-4.1		
	Municipal Number/Municipal Name ⇨		Bambang/025004			Bayombong/025005		
	Type of Source ⇨		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	1,786	207	11	4,659	40	17
	Implementation							
	2/ Government Agency	#	46	70	10	80	33	17
	3/ Private	#	1,740	137	1	4,579	7	
	Usage							
	4/ Drinking	#	1,761	170	11	4,573	28	17
	5/ Washing/Bathing	#	1,761	170	11	4,573	28	17
	6/ Gardening	#	1,761	142	10	4,573	28	17
	7/ Irrigation	#			1	1		
	8/ Industrial	#		3			2	
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	691	39	2	608	6	5
	13/ Usable through the year	#	1,070	131	9	3,962	22	12
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 $m^3/hr/m$	#						
	19/ Specific Capacity >= 3 $m^3/hr/m$	#						
	20/ B-Value < 1,000 s/m^3	#						
	21/ B-Value < 1,000 s/m^3	#						
	22/ C-Value < 60,000 s^2m^6 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2/q^6	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			11			17
	34/ Minimum Yield >= 10 m^3/h	#						
	Other							
	35/ Tapped Using Gravity	#			11			17
	36/ Undeveloped Using Gravity	#						
	37/ Untapped Spring	#						

LEGEND: # - Specify figure

PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information			Page : 1 of 1	Date:		Filename: h20-res.xls		
Data Collection Level: Municipal			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya			Form No. : M 4.1		
	Municipal Number/Municipal Name ⇨		Diadi/025006			Dupax del Norte/025007		
	Type of Source ⇨		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	110	89	20	395	50	38
	Implementation							
	2/ Government Agency	#	22	65	20	20	38	38
	3/ Private	#	88	24		375	12	
	Usage							
	4/ Drinking	#	106	73	20	388	22	38
	5/ Washing/Bathing	#	106	73	20	388	22	38
	6/ Gardening	#	106	73	20	388	22	38
	7/ Irrigation	#				4		2
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	5	3	12	85	4	
	13/ Usable through the year	#	101	70	52	303	18	38
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 m^3/hr/m	#						
	19/ Specific Capacity >= 3 m^3/hr/m	#						
	20/ B-Value < 1,000 s/m^2	#						
	21/ B-Value < 1,000 s/m^2	#						
	22/ C-Value < 60,000 s^2/m^5 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2/m^5	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			68			51
	34/ Minimum Yield >= 10 m^3/h	#			12			1
	Other							
	35/ Tapped Using Gravity	#			20			38
	36/ Undeveloped Using Gravity	#			12			11
	37/ Untapped Spring	#			4			2

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Content: **Water Sources - General Information**			Page : 1 of 1	Date:		Filename: h20-res.xls		
Data Collection Level: **Municipal**			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya			Form No. : M-4.1		
	Municipal Number/Municipal Name ⇨		Dupax del Sur/025008			Kasibu/025009		
	Type of Source ⇨		**Shallow Well**	**Deep Well**	**Spring**	**Shallow Well**	**Deep Well**	**Spring**
General Information	1/ Total Number of Source	#	130	43	28	543	35	61
	Implementation							
	2/ Government Agency	#	13	33	25	6	5	57
	3/ Private	#	117	10	3	537	30	4
	Usage							
	4/ Drinking	#	110	26	28	543	32	61
	5/ Washing/Bathing	#	110	26	28	543	32	61
	6/ Gardening	#	110	26	28	543	32	61
	7/ Irrigation	#	2		2			1
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	8	9	8	483	20	16
	13/ Usable through the year	#	102	17	20	60	12	45
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 $m^3/hr/m$	#						
	19/ Specific Capacity >= 3 $m^3/hr/m$	#						
	20/ B-Value < 1,000 s/m^2	#						
	21/ B-Value < 1,000 s/m^2	#						
	22/ C-Value < 60,000 s^2m^6 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2m^6	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			28			61
	34/ Minimum Yield >= 10 m^3/h	#						1
	Other							
	35/ Tapped Using Gravity	#			28			61
	36/ Undeveloped Using Gravity	#						1
	37/ Untapped Spring	#						

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Content: Water Sources - General Information			Page : 1 of 1	Date:		Filename: h20-res.xls		
Data Collection Level: Municipal			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya			Form No. : M4.1		
	Municipal Number/Municipal Name ⇨		Kayapa/025010			Quezon/025011		
	Type of Source ⇨		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	4	4	86	352	141	17
	Implementation							
	2/ Government Agency	#	3	4	83	17	23	16
	3/ Private	#	1		3	335	118	1
	Usage							
	4/ Drinking	#	4	2	86	346	118	17
	5/ Washing/Bathing	#	4	2	86	346	118	17
	6/ Gardening	#	4	2	86	346	118	17
	7/ Irrigation	#			1			2
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#			36	36	8	2
	13/ Usable through the year	#	4	2	53	310	110	15
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 $m^3/hr/m$	#						
	19/ Specific Capacity >= 3 $m^3/hr/m$	#						
	20/ B-Value < 1,000 s/m^3	#						
	21/ B-Value < 1,000 s/m^3	#						
	22/ C-Value < 60,000 s^2/m^6 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2/m^6	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			89			21
	34/ Minimum Yield >= 10 m^3/h	#						6
	Other							
	35/ Tapped Using Gravity	#			86			17
	36/ Undeveloped Using Gravity	#						10
	37/ Untapped Spring	#						

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Content: Water Sources - General Information			Page : 1 of 1		Date:			Filename: h20-res.xls
Data Collection Level: Municipal			Prov. No. : 0250			Shtname: (M) General Information		
Region Number: 02			Prov. Name: Nueva Vizcaya					Form No. : M 4.1
Municipal Number/Municipal Name ⇨			Santa Fe/025012			Solano/025013		
	Type of Source	⇨	Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	19	5	47	4,343	63	10
	Implementation							
	2/ Government Agency	#	11	5	46	93	62	10
	3/ Private	#	8		1	4,250	1	
	Usage							
	4/ Drinking	#	10	3	47	4,316	20	10
	5/ Washing/Bathing	#	10	3	47	4,316	20	10
	6/ Gardening	#	10	3	47	4,316	19	10
	7/ Irrigation	#			1			
	8/ Industrial	#					3	
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	4		20	272	8	2
	13/ Usable through the year	#	6	3	27	4,044	12	8
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 m^3/hr/m	#						
	19/ Specific Capacity >= 3 m^3/hr/m	#						
	20/ B-Value < 1,000 s/m^3	#						
	21/ B-Value < 1,000 s/m^3	#						
	22/ C-Value < 60,000 s^2/m^6 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2/m^6	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			47			10
	34/ Minimum Yield >= 10 m^3/h	#						
	Other							
	35/ Tapped Using Gravity	#			47			10
	36/ Undeveloped Using Gravity	#						
	37/ Untapped Spring	#						

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PROVINCIAL WATER SUPPLY, SEWERAGE AND SANITATION SECTOR PLAN

Content: Water Sources - General Information	Page : 1 of 1	Date:	Filename: h20-res.xls
Data Collection Level: Municipal	Prov. No. : 0250		Shtname: (M) General Information
Region Number: 02	Prov. Name: Nueva Vizcaya		Form No. : M-4.1

	Municipal Number/Municipal Name ⇨		Villaverde/025014					
	Type of Source ⇨		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
General Information	1/ Total Number of Source	#	1,192	20	14			
	Implementation							
	2/ Government Agency	#	38	20	13			
	3/ Private	#	1,154		1			
	Usage							
	4/ Drinking	#	1,183	4	14			
	5/ Washing/Bathing	#	1,183	4	14			
	6/ Gardening	#	1,183	4	14			
	7/ Irrigation	#	2		1			
	8/ Industrial	#						
	Water Quality							
	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	231		3			
	13/ Usable through the year	#	952	4	11			
Well Information	**Technical**							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#						
	16/ SWL < 5 m below ground	#						
	17/ SWL >= 5 m below ground	#						
	18/ Specific Capacity < 3 $m^3/hr/m$	#						
	19/ Specific Capacity >= 3 $m^3/hr/m$	#						
	20/ B-Value < 1.000 s/m^3	#						
	21/ B-Value < 1.000 s/m^3	#						
	22/ C-Value < 60,000 s^2/m^6 (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s^2/m^6	#						
Aquifer Information	**Technical**							
	24/ T-Value < 0.001 m^2/s	#						
	25/ T-Value >= 0.001 m^2/s	#						
	26/ S-Value < 0.01	#						
	27/ S-Value >= 0.01	#						
	Geology							
	28/ Alluvial Formation	#						
	29/ Volcanic Formation	#						
	30/ Limestone Formation	#						
	31/ Sandstone Formation	#						
	32/ Other Sediment Formation	#						
Spring Info.	**Technical**							
	33/ Minimum Yield < 10 m^3/h	#			14			
	34/ Minimum Yield >= 10 m^3/h	#			1			
	Other							
	35/ Tapped Using Gravity	#			14			
	36/ Undeveloped Using Gravity	#			3			
	37/ Untapped Spring	#						

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Table 7.3.1 Major References

NO.	REPORT/INFORMATION	AGENCY/AUTHOR/ PUBLISHED YEAR	CONTENTS	REFERENCE DATA/DESCRIPTION	OUTPUT
1.	Administrative Map (1:150,000)	NAMRIA	municipal boundaries	municipal boundaries	Figures 7.3.1,7.3.3, 7.5.1
2.	Topographic Map (1:50,000)	NAMRIA	topographic contours, natural waterways, road, etc.	highest peak, major river basins	Figures 7.5.1 Table 7.6.2
3.	Rapid Assessment of Water Supply Sources	NWRB	groundwater availability, well data and inventory	no. of wells, well specific capacity, static water level and depth	Tables 7.1.1, 7.6.1, 7.6.2 and 7.6.3 Sections 7.3.2, 7.6
4.	Groundwater Resources Investigation	NWRB	groundwater availability area with salt water intrusion, resistivity	resistivity survey result, area potential for high yielding wells and salt water intrusion	Figures 7.3.1, 7.3.3 Section 7.2
5.	Geology and Mineral Resources of the Philippines	BMGS	Philippine physiographic provinces, sedimentary, metamorphic and igneous rocks	stratigraphy of Nueva Vizcaya	Section 7.2 Table 7.6.2
6.	Geological Map of the Philippines (1:1,000,000)	BMGS	lithologic distribution and structural features in the Philippines	lithologic distribution and structural features of the province	Figures 7.2.1, 7.3.1, 7.3.2
7.	Philippine Water Resources Summary Data	DPWH/BRS	stream flow and lake or river stage	drainageareas and flow measurement of major rivers in the province	Table 7.5.1 Section 7.5
8.	Provincial Profile	PPDO-Nueva Vizcaya	physical & socio-economic description of the province	land use, topography, climate	Table 7.6.2 Sections 7.2, 7.3.2
9.	Physical Land Resources of Nueva Viscaya	Bureau of Soils	inventory of land capability and characteristics of the province	Drainage area, geologic units, water quality	Table 7.6.2 Sections 7.3.2 and 7.5

NUEVA VIZCAYA

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
ARITAO	ARITAO CENTRAL SCHOOL	BPW48-R2	06/28/68	35.20	2.76					
ARITAO	BANGANAN	BPW14523	03/27/57	10.06	6.10	1.89				
ARITAO	BANGANAN	NWS-6892		30.70	13.40	0.94				
ARITAO	BETI	BPW17947	03/12/58	9.15	6.10	0.32	0.62	0.520		
ARITAO	BONE	BPW14522	03/19/57	18.29	9.76	0.63	0.30	2.070		
ARITAO	BONE NORTH	NW406011		15.20	7.62	0.31				
ARITAO	BONE NORTH	NWS-6890		21.00	6.40	0.61				
ARITAO	BONE NORTH	NWS-9374		13.70	3.05	0.31	6.20	0.050		
ARITAO	BONE SOUTH	NWS-6891		30.70	17.10	0.61				
ARITAO	BONE SOUTH NO. 2	NWSA9377		20.70	13.40	0.31	2.82	0.110		
ARITAO	CABAKISAN	BPW17945	11/22/57	20.42	6.10	0.63	9.00	0.070		
ARITAO	CALITLITAN	BP528511	08/31/85	13.40		0.95				POTABLE
ARITAO	CALITLITAN	BPW-9378	12/01/55	6.10	3.05	0.63				
ARITAO	CALITLITAN	BPW-9379	11/14/55	13.11	4.57	0.32	1.52	0.210		
ARITAO	COMON	NWS-6904		21.30	6.40	0.61				
ARITAO	COMON NORTH	BPW14521	02/28/57	16.77	10.37	0.63	1.21	0.520		
ARITAO	COMON SOUTH	BPW13520	02/10/57	18.29	7.01	0.63	0.31	2.030		
ARITAO	CUTAR	BPW-6768	10/04/54	55.79	9.15	0.63	9.00	0.070		
ARITAO	CUTAR	NW406017		19.80	15.20	0.31				
ARITAO	DARAPIDAP	BPW14525	04/29/57	16.46	6.71	0.63	0.30	2.100		
ARITAO	INANGMA PUROK I	NWS20972		15.30	4.57	0.31	0.91	0.340		
ARITAO	NAGCUARTELAN	BPW-9375	11/16/55	15.85	6.71	0.63				
ARITAO	POBLACION	BPW14519	01/11/57	19.82	1.22	0.95	10.55	0.090		
ARITAO	POBLACION	NWS-6893		26.80	4.57	0.61				
ARITAO	POGONG BUAYA	BPW17942	09/06/57	7.62	3.96	0.95	0.30	3.170		
ARITAO	POGONG BUAYA	NWS17943		7.60	3.66	1.25	0.61	2.070		
ARITAO	SANTA CLARA	BPW17946	12/16/57	15.20	4.57	0.63	6.30	0.100		
ARITAO	TUCANON	BP518510	11/20/85	12.20	3.66	0.32				POTABLE
ARITAO	TUCANON	BPW14524	04/11/57	14.33	9.76	1.58	0.30	5.270		
BAGABAG	BAKIR	NWS-9043		4.50	0.91	0.61				
BAGABAG	C/S	BP528508	03/04/86	27.00	12.00	1.14				POTABLE
BAGABAG	CAREB	BPW10149	01/14/56	17.38	5.79	0.63	0.61	1.030		
BAGABAG	CAREB NORTH	NWS10148		17.90	5.19	0.61	0.58	1.030		
BAGABAG	LANTAP	BPW17940	05/21/57	10.06	5.79	0.95	0.30	3.170		
BAGABAG	LANTAP	NWS-6905		18.20	6.40	0.31	0.60	0.520		
BAGABAG	LANTAP	NWS10150		15.80	12.20	0.31				
BAGABAG	LINAON	BPW-9380	11/10/55	17.68	10.67	0.32				
BAGABAG	MARKET SITE	BPW-6763	06/27/54	41.77	10.37	0.95	2.71	0.350		
BAGABAG	MURONG	NWS-6906		19.20	5.49	0.31	0.91	0.340		

Table 7.3.2 Well Inventory by Municipality

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
BAGABAG	NANGALISAN	BPW17939	05/14/57	10.06	4.57	1.26	0.30	4.200		
BAGABAG	PAGONSINO	BPW20263	03/06/58	7.32	2.13	0.63	2.42	0.260		
BAGABAG	PANIKI	BPW-6767	07/10/54	21.03	8.23	1.26	0.61	2.070		
BAGABAG	PANIKI	BPW20262	02/04/58	13.41	6.71	0.44	1.52	0.290		
BAGABAG	POBLACION	BPW20261	01/14/58	22.26	7.62	0.38				
BAGABAG	POBLACION NORTE	BPW-9381	11/08/55	13.41	9.76	0.32				
BAGABAG	PUBLIC PLAZA	BPW10151	01/16/56	14.94	9.15	0.63				
BAGABAG	SCHOOL SITE	NWS-9044		14.00	8.84	0.61				
BAGABAG	STA. CRUZ	BP528513	09/06/85	12.20	3.65	0.95				POTABLE
BAGABAG	STA. LUCIA	BP528512	09/09/85	14.00	4.88	0.95				POTABLE
BAGABAG	STA. LUCIA	NWS-6894		24.30	13.70	0.94				
BAGABAG	STA. LUCIA EAST	NWS10147		24.30	13.70	0.31				
BAGABAG	STA. LUCIA ELEM. SCHOOL	NWS10146		24.60	15.20	0.31	1.48	0.210		
BAGABAG	TABBAN	NW406111		10.60	4.57	0.31				
BAGABAG	TUAO	BPW	08/30/85	40.00	12.00	0.95				POTABLE
BAGABAG	TUAO	BPW40603	05/31/60	13.72	3.05	0.63	1.53	0.410		
BAGABAG	TUAO	BPW40604	06/16/60	12.20	3.05	0.63	1.54	0.410		
BAGABAG	TUAO	NWS-6895		15.50	2.44	0.94	0.30	3.100		
BAGABAG	TUAO NORTH	BP528512	12/16/85	12.20	4.57	0.32				POTABLE
BAGABAG	TUAO VI	BPW	09/06/85	40.00	12.00	0.95				POTABLE
BAMBANG		BPW- 43		3.05		0.63				
BAMBANG	ABIAN	BP528501	07/03/85	12.00	6.00	0.32				POTABLE
BAMBANG	ABIAN	BPW-9071	12/24/55	51.22	9.76	0.32	10.67	0.030		
BAMBANG	ABIAN SITE SCHOOL	NWS10429		11.20	7.62	0.61				
BAMBANG	ABINGANAN	BP528505	07/30/85	18.00	6.00	0.32				
BAMBANG	ALMAGUER	BPW-6044	04/10/54	30.49	3.35	0.63	5.67	0.110		
BAMBANG	ALMAGUER	NW406014		15.80	4.57	0.31				
BAMBANG	ALMAGUER	NWS17942		28.00						
BAMBANG	ANDUBUBAN	NWS10430		11.20	2.44	0.31	2.07	0.150		
BAMBANG	BAMBANG EAST	BP528506	07/24/85	12.20	4.30	0.32				POTABLE
BAMBANG	BAMBANG ELEM. SCHOOL	BPW-9039	09/20/55	17.07	5.79	0.32	3.20	0.100		
BAMBANG	BAMBANG JUNCTION	BPW16185	01/14/57	21.65	6.10	0.50				
BAMBANG	BAMBANG SCHOOL SITE	NWS10427		8.50	6.10	0.61				
BAMBANG	BARAT	BPW-9040	09/13/55	12.20	2.13	0.63	1.54	0.410		
BAMBANG	INDIANA	NW406012		23.40	7.62	0.31				
BAMBANG	INDIANA	NWS-6896		17.60	5.79	0.61	0.59	1.030		
BAMBANG	MACATE	BP528519	01/07/86	12.00	4.50	0.63				
BAMBANG	MACATE	NWS10431		4.80	2.13	0.61				
BAMBANG	MALASIN	BPW16186	07/08/57	19.21	7.62	0.50	3.85	0.130		

NUEVA VIZCAYA

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
BAMBANG	MANAMTAM	BP528508	08/13/85	15.00	9.65	0.95				POTABLE
BAMBANG	MARKET SITE	BPW-6009	03/04/54	16.77	4.27	0.95				
BAMBANG	MAUAN	NWS10428		14.60	4.57	0.61	2.90	0.210		
BAMBANG	POBLACION	BPW-6767	08/06/54	26.52	3.05	0.95	0.61	1.560		
BAMBANG	POBLACION	NWS21941		44.10	9.15					ABANDONED
BAMBANG	PUKOK NO. 1	NWS10426		11.20	2.74	0.31	3.44	0.090		
BAMBANG	SAN ANTONIO	BPW- 40		2.74		0.31				
BAMBANG	SAN ANTONIO	NWS10478		28.00	6.10	0.94	3.03	0.310		
BAMBANG	SAN ANTONIO SCHOOL	NWS-6907		21.90	5.79	0.61	0.29	2.070		
BAMBANG	SAN FERNANDO	BP528508	08/03/85	12.20	3.05	0.32				
BAMBANG	SAN FERNANDO SCHOOL	BPW- 41		7.62		0.31				
BAMBANG	STO. DOMINGO	NWS-6898		7.60	1.83	0.61	0.29	2.070		
BAYOMBONG	BARINGIN	NW406025		21.30	13.10	0.31				
BAYOMBONG	BATULAN	BP528514	12/13/85	12.00	3.00	0.32				POTABLE
BAYOMBONG	BONFAL	BPW- 44		20.10	4.57	0.61				
BAYOMBONG	BONFAL	BPW-9042	10/15/55	7.62	1.52	0.32				
BAYOMBONG	BONFAL PROPER	BP528501	06/05/85	18.00	6.00	0.95				POTABLE
BAYOMBONG	BUSILAC	BPW- 46		67.00	21.30	0.94				
BAYOMBONG	BUSILAC	BPW-6760	05/21/54	71.34	21.34	0.95	9.50	0.100		
BAYOMBONG	BUSILAC	NWS40591		48.70		0.61	6.10	0.100		
BAYOMBONG	DON MARIANO	BP528504	07/26/85	11.00	5.48	0.96				POTABLE
BAYOMBONG	LA TORRE	BP528518	01/03/86	12.00	7.50	0.32				
BAYOMBONG	LA TORRE SCHOOL SITE	NWS10425		17.00		0.31				
BAYOMBONG	MAGSAYSAY	BPW- 48		29.20	7.62	0.94				
BAYOMBONG	N.V. HIGH SCHOOL	BPW47-R2	03/29/68	64.00	1.75					
BAYOMBONG	OLD HOSPITAL	BP528503	09/20/85	12.00	6.25	0.32				
BAYOMBONG	P/M	BP528506	08/03/85	12.00	7.25	0.32				POTABLE
BAYOMBONG	PAITAN	BPW	08/26/85	11.70						POTABLE
BAYOMBONG	VISTA	BP528508	08/16/85	12.00						POTABLE
CASTANEDA	ABUYO	BP528506	08/21/85	22.00	5.00	0.95				POTABLE
DIADI	BALETE	BPW- 49		7.01		0.94				
DIADI	BALETE	BPW-6765	07/28/57	25.91	7.01	0.95	0.30	3.170		
DIADI	DIADI SCHOOL	BPW- 50		7.62		0.63				
DIADI	SCHOOL SITE	NWS-9045		17.30	7.62	0.61	1.49	0.410		
DUPAX	BALZAIN	BP528503	07/08/85	12.00	4.00	0.63				POTABLE
DUPAX	DUPAX CENTRO	NW406013		17.60	7.62	0.31				
DUPAX	DUPAX CENTRO	NW406016		22.80	13.70	0.31				
DUPAX	GABUT	NWS16189		19.50	7.62	0.31				
DUPAX	INABAN	BPW-9382	11/19/55	15.24	4.57	0.63	0.91	0.690		

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
DUPAX	INEANGAN	BPW-6116	05/01/57	28.05	1.26	0.63	7.00	0.090		
DUPAX	INEANGAN	BPW16183	04/22/60	26.22	12.80	0.71				
DUPAX	INEANGAN	BPW16183	04/07/57	25.61	11.59	0.38	2.11	0.180		
DUPAX	LAMO	NWS-6900		12.10	4.85	0.61	0.29	2.070		
DUPAX	MABARET	BPW- 71		8.23		0.63				
DUPAX	MABARET	NWS16190		19.50	7.62	0.31	5.17	0.060		
DUPAX	MABASA	NWS		33.20	10.70	0.31	0.76	0.410		
DUPAX	MABASA	NWS10152		14.60	5.18	0.31				
DUPAX	MALASIN	BPW16187	08/14/57	36.58	6.10	0.63	4.50	0.140		
DUPAX	MALASIN C.S.	BP528507	01/25/85	24.60	2.50	0.95				
DUPAX	MANGAYANG	BPW16188	09/06/57	16.46	9.15	0.25				
DUPAX	MANGAYANG	NWS-6901		31.60	9.15	0.61	1.48	0.410		
DUPAX	MARKET MALASIN	BPW-6899		33.70	9.15	0.61				
DUPAX	MUNGUIA	BPW20260	12/02/57	13.11	3.05	0.50	3.12	0.160		
DUPAX	POBLACION MARKET SITE	NWS-6902		21.30	7.32	0.61				
DUPAX	POBLACION	BPW- 65		6.10		0.63				
DUPAX	POBLACION	BPW-9383	10/28/55	13.41	4.57	0.32				
DUPAX	POBLACION	BPW10477		14.30	10.10	0.61	1.81	0.330		
DUPAX	POBLACION	NWS13071		21.30	6.10	0.31				
DUPAX	POBLACION ELEM. SCHOOL	NW-13077		16.70	8.23	0.31				
DUPAX	PUDI	BPW	08/20/85	29.30	17.58	0.95				POTABLE
DUPAX	PUROK BALSAIN	NWS16182		15.20	6.10	0.31				
DUPAX	STA. MARIA	NWS16181		16.40	5.49	0.31				
DUPAX	TANAP	BPW16184	05/25/57	24.70	7.62	0.38	3.17	0.120		
KASIBU	POBLACION PUROK	BP528503	07/29/85	40.00	6.10	0.32				POTABLE
KAYAPA	PINGKIAN	BPW20971	05/15/58	6.10	2.44	0.32	0.62	0.520		
KAYAPA	POBLACION	BPW17948	04/28/58	8.54	7.62	0.32	0.91	0.350		
QUEZON	CALAOCAN	BP528505	07/24/85	12.00	4.50	0.32				POTABLE
QUEZON	CALIAT	BPW20974	08/12/58	18.60	7.93	0.38				
QUEZON	DARRUBA	BP528517	12/16/85	40.00	15.00	0.32				POTABLE
QUEZON	NALLUBBUNAN	BP528516	12/11/85	12.20	6.10	0.32				
SOLANO	17 BCT. ARMY CAMP	BPW-5340	11/20/51	82.32	6.10	0.76	19.00	0.040		
SOLANO	AGGUB PLAZA	BPW- 51		4.80	1.52	0.61				
SOLANO	AGGUB PLAZA	BPW-9048	10/28/55	5.18	1.52	0.63				
SOLANO	BANGAR	BPW20973	07/04/58	9.15	2.44	0.63				
SOLANO	BASCARAN	NWS-6909		17.00	7.01	0.94	0.15	6.200		
SOLANO	CURIFANG	BP528502	07/16/85	18.30	6.20	0.32				
SOLANO	CURIFANG	BPW17941	06/12/57	10.36	7.32	0.95	0.30	3.150		
SOLANO	DADAP SCHOOL SITE	BPW-9047	10/10/55	4.57	1.83	0.94				

NUEVA VIZCAYA

MUNICIPAL	LOCATION	WELL_NO	DATE	DEPTH	SWL	DISCHGE	DRAWDWN	SPCCP	USAGE	REMARKS
SOLANO	DIET NO. 2	NWS40605		10.60	2.44	0.61	2.03	0.300		
SOLANO	JIRIBBA	NWS41631		13.70	11.60	0.31				
SOLANO	LACTAWAN	BPW-6766	08/13/54	39.94	4.57	0.32	4.57	0.070		
SOLANO	MARKET SITE	BPW-6761	06/01/54	23.18	0.91	1.26	0.61	2.070		
SOLANO	QUIRINO	BP528503	07/12/85	18.30	4.57	0.32				POTABLE
SOLANO	SAN JUAN SCHOOL SITE	NWS-9384		8.20	2.44	0.61	2.03	0.300		
SOLANO	SAN PEDRO	BP528502	07/10/85	28.00	4.50					POTABLE
SOLANO	SINAFAL	BPW-9046	10/25/55	5.18	1.22	0.63				
SOLANO	SOLANO NORTE SCHOOL	BPW40601	02/19/60	13.72	0.61	0.76	0.30	2.530		
SOLANO	UDDIAWAN	NWS-6912		15.20	8.54	0.61	0.59	1.030		
SOLANO	WACAL	NWS-6903		10.00	1.83	0.94	0.30	3.100		
STA. FE	BALILING	NWS17944		7.60	4.57	0.31				
STA. FE	STA. FE SCHOOL SITE	NWS-9376		10.90	1.52	0.61	1.50	0.410		
VILLA VERDE	BINTAWAN	BPW- 73		14.30	3.66	0.61				
VILLA VERDE	BINTAWAN	BPW-6792	06/13/54	20.43	3.96	0.95	0.61	1.560		
VILLA VERDE	BINTAWAN	NWS-6910		16.40	3.66	0.31				
VILLA VERDE	BINTAWAN PLAZA	BPW- 72		17.90	3.96	0.94				
VILLA VERDE	IBUNG	BPW	12/02/55	47.26	7.92	0.32	10.67	0.030		
VILLA VERDE	IBUNG MARKET	BPW- 74		19.80	3.96	0.61				
VILLA VERDE	KALAW, SAWMI	BPW	07/23/85	12.00	5.50	0.32				POTABLE
VILLA VERDE	PIEZA SCHOOL	BPW- 75		25.60	7.93	0.31				
VILLA VERDE	TOWN HALL	BPW- 76		56.60	3.66	1.25				

Source: NWRB Well Inventory

Notes: DEPTH = Meters Below Ground Level (m)
DRAWDWN = Drawdown (m)
SWL = Static Water Level (m)
SPCCP = Specific Capacity (l/sec/m)
DISCHGE = Discharge Rate (l/sec)

7.5 Surface Water Sources

Table 7.5.1
Water Quality Examination Results

In reply, please refer to
Tel. Nos. (2) 95-32-11 to 29
FAX No. (2) 921-2887
Telex No. (722) 27947 MWSS PH

Republika ng Pilipinas
PANGASIWAAN NG TUBIG AT ALKANTARILYA SA METROMANILA
Metropolitan Waterworks and Sewerage System
Katipunan Road, Balara, Quezon City 1105, Philippines

CENTRAL LABORATORY DIVISION
Sewage Research and Analysis Section

14 July 1995

Sample Submitted by	:	ANTONIO ASTORGA
Date/Time Collected	:	29 June 1995/ 4:25 p.m.
Data/Time Submitted	:	30 June 1995/10:45 a.m.
Source of Sample	:	Magat River Nueva Vizcaya
Sample Analyzed by	:	N. Alma Jose, R.M. Xavier, M.B. Pineda and H. B. Labaro

ANALYSIS OF RIVERWATER SAMPLE*

Color	units	:	10.00
Turbidity	units	:	148.00
Conductivity	us/cm	:	300.00
pH		:	7.90
Alkalinity	mg/L	:	124.00
Total Hardness as $CaCO_3$	mg/L	:	120.00
Ca Hardness as $CaCO_3$	mg/L	:	16.00
Mg Hardness as $CaCO_3$	mg/L	:	104.00
Chemical Oxygen Demand (COD)	mg/L	:	115.40
Chloride	mg/L	:	4.40
Sulfate	mg/L	:	28.00
Total Iron	mg/L	:	8.50
Manganese	mg/L	:	0.24
Ammonia-Nitrogen	mg/L	:	2.80

* Sample received as submitted by client.

Submitted by:

BUHAY S. ASTUDILLO
Chief Chemist
Sewage Research and Analysis Section
3/2/96

Certified Correct:

CONCEPCION M. MASANGA
Division Manager A, Central Laboratory

CABLE ADDRESS:
"MWSS PH"

In reply, please refer to
Tel. Nos. (2) 95-32-11 to 29
FAX No. (2) 921-2837
Telex No. (722) 27947 MWSS PH

Republika ng Pilipinas
PANGASIWAAN NG TUBIG AT ALKANTARILYA SA METROMANILA
Metropolitan Waterworks and Sewerage System
Katipunan Road, Balara, Quezon City 1105, Philippines

CENTRAL LABORATORY DIVISION
Sewage Research and Analysis Section

14 July 1995

Sample Submitted by	:	ANTONIO ASTORGA
Date/Time Collected	:	29 June 1995/ 3:30 p.m.
Data/Time Submitted	:	30 June 1995/10:45 a.m.
Source of Sample	:	Matuno River Nueva Vizcaya
Sample Analyzed by	:	N. Alma Jose, R.M. Xavier, M.B. Pineda and H. B. Labaro

ANALYSIS OF RIVERWATER SAMPLE*

Color	units	:	10.00
Turbidity	units	:	120.00
Conductivity	us/cm	:	290.00
pH		:	5.50
Alkalinity	mg/L	:	122.00
Total Hardness as $CaCO_3$	mg/L	:	113.00
Ca Hardness as $CaCO_3$	mg/L	:	12.00
Mg Hardness as $CaCO_3$	mg/L	:	101.00
Chemical Oxygen Demand (COD)	mg/L	:	107.70
Chloride	mg/L	:	7.10
Sulfate	mg/L	:	24.00
Total Iron	mg/L	:	7.20
Manganese	mg/L	:	0.20
Ammonia-Nitrogen	mg/L	:	0.88

* Sample received as submitted by client.

Submitted by:

BUHAY S. ASTUDILLO
Chief Chemist
Sewage Research and Analysis Section
3713-96

Certified Correct:

CONCEPCION M. MASANGA
Division Manager A, Central Laboratory

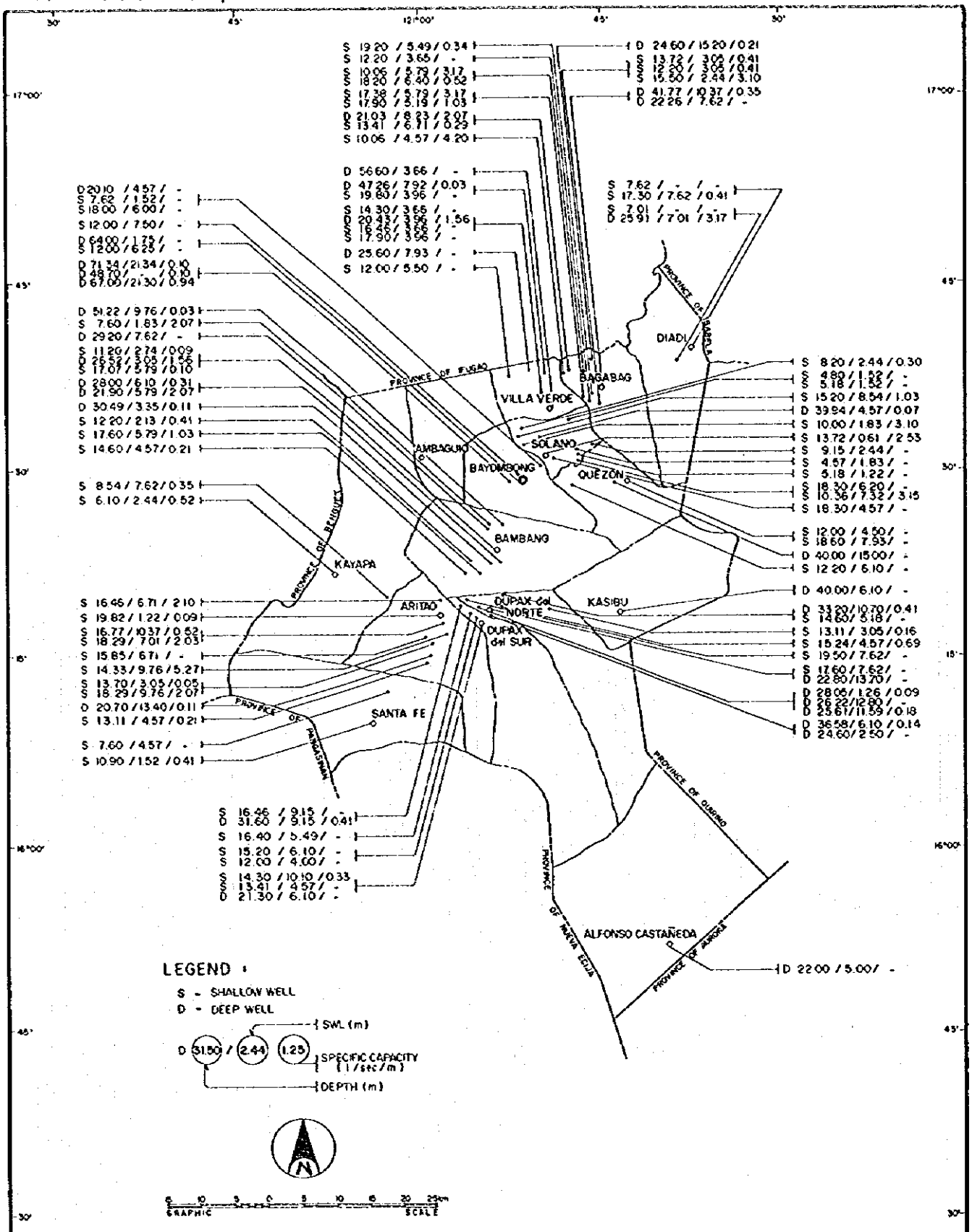

FIGURE 7.6.1

INDIVIDUAL WELL LOCATION AND SPECIFICATIONS MAP

JICA