#### 7. WATER SOURCE DEVELOPMENT

## 7.1 General

Table 7.1.1
Water Source Information

	nt: Water Sources - General Information Collection Level: Municipal	Pag	e : 1 of 1 v. No. : 0128	Date: Shtname: (M) General	Filename: h20-res.xl
	Number: 01		v. Name: Hocos Norte	Sikilane, (17) General	Form No. : M 4.1
¥	Type of Source		Shallow Well	Deep Well	Spring
<del></del>	1/ Total Number of Source	#	16,183	574	189
	Implementation				
	2/ Government Agency	#	2,136	473	189
	3/ Private	#	14,047	101	0
Ī	Usage		,	•	
ے ا	4/ Drinking	#	15,642	460	188
ĝ	5/ Washing/Bathing	#	15.642	485	179
Ë	6/ Gardening	#	11,581	439	152
General Information	7/ Irrigation	#	709	17	20
Į į	8/ Industrial	#	30	0	0
5	Water Quality		:		
ပိ	9/ High Iron/Manganese Content	#	0	0	0
	10/ High Chloride Content	#	0	0 .	. 0
I	11/ Turbidity/Color/Smell	#	70	68	10
1	Production				:
	12/ Less/No Water in dry season	#	2,364	0	14
	13/ Usable through the year	#	13,179	466	169
	Technical				
į	14/ Diameter < 100 mm (4")	#	CANAGE ASS	Mark States	Mark Street
	15/ Diameter >= 100 mm (4*)	#	. 5. 7 4. 74. 900	in programme and the second	O CONTRACTOR
	16/ SWL < 5 m below ground	#	1,747	5	0
Pati.	1?/ SWL >= 5 m below ground	#	1,536	54	0
Ē	18/ Specific Capacity < 3 m³/hr/m	#			
	19/ Specific Capacity >= 3 m <sup>3</sup> /hr/m	#	ketatanes).		
3	20/ B-Value < 1,000 s/m	#			
	21/ B-Value < 1,000 s/m <sup>3</sup>	*		Grans Live	74.5
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	NATURE STATE	1 8 / S.	Line ou A Si A
	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup>	#			<b>动物在设设</b>
	Technical			1	
	24/ T-Value < 0.001 m <sup>2</sup> /s	#	ESTEROFFE A		
- 1	25/ T-Value >= 0.001 m <sup>2</sup> /s	#		表於新規對從	Markey
tion	26/ S-Value < 0.01	#			
8	27/ S-Value >= 0.01	#	1743 2377 257	Maria de Andrea	<b>MANAGEN</b>
iifer Information	Geology	$\neg$			
er 1	28/ Alluvial Formation	#	NEW WEST	Mark Sold Street	P\$ 35 11 35 10
	29/ Volcanic Formation	#	1487479	urent kajn	医医院系统
γď	30/ Limestone Formation	#	THE PROPERTY		接線探測的
	31/ Sandstone Formation	#			
	32/ Other Sediment Formation	*			
	Technical	1		ساما ده براه به	
	33/ Minimum Yield < 10 m²/h	#	0	0	- 18
Je.	34/ Minimum Yield >= 10 m³/h	*	0	14	21
Į.	Other				<u></u>
Spring Info.	35/ Tapped Using Gravity	#	ò	0	189
Şp	36/ Undeveloped Using Gravity	<b>,</b>	0	0	16
	37/ Untapped Spring	ــّ ا	Ö	o	3

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Conte	nt: Water Sources - General Information		Page :	1 of 1	Date:		Filename: h2	0-res.xls
	Collection Level: Municipal		Prov. No.:			Shtname: (	M) General In	
Regio	n Number: 01			: Hocos Nort			Form No	
ļ	Municipal Number/Municipal Name		Shallow	Adams/01280	<u> </u>	Shallow	Bacarra/01280	)2
	Type of Source		Well	Deep Well	Spring	Snanow Well	Deep Well	Spring
	1/ Total Number of Source	#	0	0	I	735	34	3
	Implementation	_	ļ <u>.</u>	L				
	2/ Government Agency	#			1	8	33	3
	3/ Private	#		<del></del>		727	!	
	Usage	<b> </b>		ļ			· · · · · · · · · · · · · · · · · · ·	
<b>5</b>	4/ Drinking	#			1	735	30	3
att	5/ Washing/Bathing	*			1	735	30	3
General Information	6/ Gardening	#			1	735	30	3
	71 Irrigation	#	ļ		1			
ET.	8/ Industrial	#		<u> </u>		28		
હિં	Water Quality	<u> </u>	<u> </u>	L			:	
Ì	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	"		: .		· .		
	11/ Turbidity/Color/Smell	#						
	Production	ļ		L			<u> </u>	
i	12/ Less/No Water in dry season	#				15		
<b></b> -	13/ Usable through the year Technical	#		<del></del>	1	735	30	3
	14/ Diameter < 100 mm (4")	-		13.01021	<i>दश्चमसम</i> ा	1808W	E PARTO NOS	989399
	15/ Diameter >= 100 mm (4")	"	4	in the	35 - 7 S. V		<b>计算的行业</b>	es treits
	16/ SWL < 5 in below ground	"	assista.	EGIONAL N	in same	an kanan	起达态度	CLESSED I
Well Information	17/ SWL >= 5 m below ground	["				735		
ĮĚ	the contract of the contract o	*		1099/97/0901		.3559£\$\$4.635	1,0000000000000000000000000000000000000	kesaasaa
ğ	18/ Specific Capacity < 3 m <sup>3</sup> /hr/m	#		4.53	· Addition	14. A. C.	10210	11111
/e#	19/ Specific Capacity >= 3 m³/hr/m	"		1. The 1. The 1.	A 3 YY		(*), (*)	250,6
7	20/ 8-Value < 1,000 s/m <sup>3</sup>	"	44.44					
:	21/ B-Value < 1,000 s/m <sup>3</sup>	"		<b>2</b>	N. S. S.			
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	1144	WAY.	4 (4. <i>1)</i> .	10 may	*****	444,621
<del></del> -	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup> Technical	#	A 2001	123,714	1944	138 1975	<u>emeny</u>	132562
l .	24/ T-Value < 0.001 m <sup>2</sup> /s	-	27252337		KULEAN	7471.VSV	राज्यसम्बद्धाः	<u>्रकृत्त्वस्त्र</u> ा
l	$25/ \text{ T-Value} >= 0.001 \text{ m}^2/\text{s}$			18644	7	RAAA.	<b>PE33</b>	
ş	26/ S-Value < 0.01	["	1747	History.	传播的	(4 ° %)	William !	
mation	27/ S-Value >= 0.01	[ "		KEN Y			经验证	Y HING AN
Ş	Geology	+"	LOMES A	DERGE!	4世代的)	rental:	Referred.	<u> </u>
Aquifer Infor	28/ Allovial Formation	#	2012:35	<u>जिल्लास</u>	1078FW		10,4552.70	हरूकुछङ
Ĭ	29/ Volcanic Formation	"	To the	12.63	división.	<b>计量</b> 验		
Ĭ	30/ Limestone Formation	"	grant.	传统美	生物。		學的對	
	31/ Sandstone Formation	"					1333	信息を持た
: :	32/ Other Sediment Formation	",		行在资金				<b>建物的</b>
	Technical	<del>  "</del> -	SEASE OF			6313933	GKESFE	SE2.832
,	33/ Minimum Yield < 10 m³/h	#	<del></del>				<del></del>	
કું	34/ Minimum Yield >= 10 m³/h	#						3
Spring Info.	Other	1-		1				
Ĕ	35/ Tapped Using Gravity	#	1	<del>*</del>	1		<del></del>	3
<b>"</b>	36/ Undeveloped Using Gravity	#		•				`*
	37/ Untapped Spring	#						
1 FGE	ND # Specify figure	<u>—</u>	<del></del>	3		<u> </u>		

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ontent: Water Sources - General Information		Page :		Date:	Shinama: (	Filename: h2 M) General In	
ata Collection Level: Municipal		Prov. No.:	: Hocos Norte		annianic, l	Form No	
egion Number: 01  Municipal Number/Municipal Name			Badoc/01280	~		Bangui/01280	
Type of Source		Shallow Well	Deep Well		Shallow Well	Deep Well	Spring
1/ Total Number of Source	#	70	68	10	353	15	16
	Ë		T			<del>-,</del> -	
Implementation 2/ Government Agency	#	70	68	10	77	15	16
	#	1 1			276		
3/ Private	╁╌	ļ	ļ — —				
Usage 4/ Drinking	+	70	68	10	337	14	16
5/ Washing/Bathing	1 #	70	68	10	337	14	16
6/ Gardening	#	70	68	10	337	14	16
O Gardening	"		•	-			
5/ Washing/Bathing 6/ Gardening 7/ Irrigation 8/ Industrial Water Quality	#	Į	•	-	<u> </u>		
Water Quality	+"	<del> </del>	<del></del>	<del></del>			
9/ High Iron/Manganese Content	#	<b></b>	4				
10/ High Chloride Content	#		*				
11/ Turbidity/Color/Smell	#	70	68	10			
Production	╫						
12/ Less/No Water in dry season	#						14
13/ Usable through the year		70	68	(0	337	14	2
Technical Technical		<del> </del>	<u> </u>	:	1		
14! Diameter < 100 mm (4")	#	AP I P	Tier Line	<b>"是从报</b> 》	132 636		11226
15/ Diameter >= 100 mm (4")	#	<b>学学</b>	10.77				
	#	220,000,000	5	egagues un escherores	337		
16/ SWL < 5 m below ground 17/ SWL >= 5 m below ground 18/ Specific Capacity < 3 m³/hr/m 19/ Specific Capacity >= 3 m³/hr/m 20/ B-Value < 1,000 s/m³	#	70	6			14	
18/ Specific Capacity < 3 m²/hr/m	#	ECENT.	NORTH THE	TATISTICAL PROPERTY.			1.331
19/ Specific Capacity >= 3 m³/hr/m	.   #	<b>17</b> 77 87	1611				
3 20/ B-Value < 1,000 s/m <sup>3</sup>	#		153		Personal Property of the Personal Property of		
21/ B-Value < 1,000 s/m <sup>3</sup>	"#			[表表]	1:33		
22/ C-Value < $60,000  \text{s}^2 \text{m}^6$ (Well Loss Const.)	#		<b>并包括X</b> 5	NO. W. J.			
23/ C-Value >= $60,000 \text{ s}^2 \text{ m}^6$	" ا	数据数	रेट वर्ग	的社交	生学校		
Technical	╅		C 2211/22	* 10 march	224353443	<u> </u>	
24/ T-Value < 0.001 m <sup>2</sup> /s	-  #	\$18,100.5				AND A DE	
25/ T-Value >= 0.001 m <sup>2</sup> /s	*	家族	1805	To San	177.5		
		MARY	neven	门学家体			
E 177/ S. Value >= 0.01			计文艺艺	17.37	117		
Geology	.   <u>"</u>	78/8 Y 1/34	e New York Constitution	. <u>p. 11 1</u> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		
28/ Alluvial Formation	#			1433			
Geology  28/ Alluvial Formation 29/ Volcanic Formation		「多多方	MESSE			( <b>)</b> \$ , ( ) \$	
30/ Limestone Formation		1888		N. ST			
31/ Sandstone Formation							
32/ Other Sediment Formation	.   _	<b>,</b> 多表現	HARSE	Telding.	433	3 379	
Technical	-†	12. 10.00	25 25 25 7 86 7				·
33/ Minimum Yield < 10 m /h	1	#			1		12
		ŧ	•				4
of Other	_						
34/ Minimum Yield >= 10 m³/h Other 35/ Tapped Using Gravity	7	*		10			- 16
36/ Undeveloped Using Gravity	-   4	#		2			
37/ Untapped Spring	ļ,	#			1		
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Conte	nt: Water Sources - General Information		Page :		Date:		Filename: h2	O-res.xls
	Collection Level: Municipal		Prov. No. :			Shtname: (	M) General In	formation
Regio	n Number: 01			: Hocos Norte		<del>,</del>	Form No	
	Municipal Number/Municipal Name			Batac/012805			Burgos/01280	6
	Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	1/ Total Number of Source	#	1,319	. 30	9	241	24	7
:	Implementation	<u> </u>	ļ			·		
	2/ Government Agency	#	386	30	9	12	24	7
ľ	3/ Private	#	933			229		
	Usage	<u> </u>	ļ	<u> </u>			·	
ē	4/ Drinking	#	1,297	26	9	238	17	7
atic	5/ Washing/Bathing	#	1,297	26	9	238	17	7
OC III	6/ Gardening	#	1,297	26	9	238	17	7
Jul	7/ Irrigation	#		:	9		17	
ral	8/ Industrial	#	l					
General Information	Water Quality		<u></u>	<u> </u>				
~	9/ High Iron/Manganese Content	#	1					
	10/ High Chloride Content	#			٠			
	11/ Turbidity/Color/Smell	#		· · · · · · · · · · · · · · · · · · ·	·	<u> </u>		
	Production	<del> </del>	<b></b>	L	:			
	12/ Less/No Water in dry season	#	276			44		
<u> </u>	13/ Usable through the year	#	1,021	26	9	198	17	7
	Technical	ļ.,	DANGEROO.	 চৰতে ১৯৯১	জিলীক যাৰ চেক্তৰ	লৈ ইনেজন কৰিছে। বিভাইনেজন কৰিছে	า การเลย (การเมษายน)	SUNCERSON
	14/ Diameter < 100 mm (4")	#	44.5	45.41.3	4.40		4.762	444
	15/ Diameter >= 100 mm (4")	#	2000	37.12.55	ADMIN K	N CAR	<b>的</b> 的语言	1000
ijon.	16/ SWL < 5 m below ground	#						
Well Information	17/ SWL >= 5 m below ground	#	CONTRACTOR	के अन्य अन्य स्टब्स्ट स्टब्स्		CONTRACTOR SERVICE	de versalende versoons	a. North of the section
Je	18/ Specific Capacity < 3 m³/hr/m	#.		M. D.Y.			ians.	
T III	19/ Specific Capacity >= 3 m³/hr/m	#	的自治	Y 3 4 4 4	\$47 B.S.	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	12.1204	(0,1,1)
×	20/ B-Value < 1,000 s/m3	#	44.3	1: 4:14.6.1	N. SPECIA		古沙汉州	
	21/ B-Value < 1,000 s/m <sup>3</sup>	#					1779113	
31	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#						
:	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>5</sup>	#	11.00	e e ne		a de la se	1.13 (3.4)	\$000
	Technical							
	24/ T-Value < 0.001 m <sup>2</sup> /s	#						
c	25/ T-Value >= 0.001 m <sup>2</sup> /s	#						
mation	26/ S-Value < 0.01	#	NA STA	1.66			1689/897	
	27/ S-Value >= 0.01	#		18688		4.4	MARKE	93330
Aquifer Infor	Geology							
fer	28/ Alluvial Formation	#						
igei	29/ Volcanic Formation	#						
<	30/ Limestone Formation	#		校子科	经济		3 8 18 21	
	31/ Sandstone Formation	#	FF BOW	<b>的第三人称</b>		\$170 Y	1975/15	
	32/ Other Sediment Formation	#						
	Technica)					and the same of the same		
	33/ Minimum Yield < 10 m <sup>3</sup> /h	#						
[ufo	34/ Minimum Yield >≃ 10 m³/h	#		<b>.</b>				
Spring Info.	Other	$\prod$						
Spri	35/ Tapped Using Gravity	#			9			7
٠,	36/ Undeveloped Using Gravity	#			ŀ			2
L	37/ Untapped Spring	#	<u></u>			<u></u>		
	CD 4. Specify frame						· · · · · · · · · · · · · · · · · · ·	

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Conte	nt: Water Sources - General Information		Page :		Date:		Filename: h2	
Dota 0	Collection Level: Municipal		Prov. No.:			Shtname: (	M) General In	
Regio	n Number: 01			Hocos Norte			Form No	
<u> </u>	Municipal Number/Municipal Name		Shallow C	arassi/01280	<u>''</u>	Shallow	orrimao/0128	US
	Type of Source		Well	Deep Well	Spring	Well	Deep Well	Spring
	1/ Total Number of Source	#	15	0	6	549	19	0
	Implementation							
	2/ Government Agency	#	6		6	89	16	
	M Private	#_	9			460	3	
	Usage			!				
_	4/ Driaking	#	15		6	549	14	
açıo	5/ Washing/Bathing	#	15		6	549	. 14	
Ę	6/ Gardening	#	15		6	549	14	
Infe	71 Irrigation	#				-		
ig	8/ Industrial	#						
General Information	Water Quality					<u> </u>	i	
٦	9/ High Iron/Manganese Content	#						
	10/ High Chloride Content	#						
	11/ Turbidity/Color/Smell	#	L	<del></del>				
	Production		ļ <u>.</u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	12/ Less/No Water in dry season	#		<b>.</b>			2	
ļ	13/ Usable through the year	#	15	<del></del>				
1	Technical		A.S. 275	1 12.7 (2.7 (2.7 (2.7))	QG & FBA	73.557.55	areasasi	Keran
1	14/ Diameter < 100 mm (4")	#		13.4%				
l	15/ Diameter >= 100 mm (4")	. *	PARTON		<b>A.A.</b> [82]	ENNES	AVELER	emeriya)
ion Eion	16/ SWL < 5 m below ground	#		· ·				
Well Information	17/ SWL >= 5 m below ground	#	15 1500 (533)	arananana Arananananananananananananananananananan	। পুরুষ্টের রাজ	134) <b>2</b> 434	JANGSAN	在400000 <b>2</b> 355
ifor	18/ Specific Capacity < 3 m³/hr/m	#			情表說		<b>/</b> 第24	
1 7	19/ Specific Capacity >= 3 m³/hr/m	#			[4] [4]		1.44.48	
ĭĕ	20/ B-Value < 1,000 s/m <sup>3</sup>	#		[[李]]	RESE	級理論	444.54	$(1)^{n}$
	21/ B-Value < 1,000 s/m <sup>3</sup>	#		拉拉斯	17463	持续的		
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#						
	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup>	#		12 1 2 2 2				THERE
	Technical			्रेट्ड एट्ड एड राज्य	: ইন্ডুব্লেফাজ	কুলুড় ক	मुख्डुरम् (१९४८) व	
1	24/ T-Value < 0.001 m <sup>2</sup> /s	#	1500	12.00	2) 4 3/4		4.37.74.A.	
ے <b>ا</b>	25/ T-Value >= 0.001 m <sup>3</sup> /s	#			MASS.		化沙草	
nation	26/ S-Value < 0.01	#		1,23,2		MAG.		
	27/ S-Value >= 0.0)	#		<b>企业</b> 公司		Made		(5) (4) (5)
Aquifer Inform	Geology	<u> </u>	1 15/80/4 57/47	100000000	nagara Pagara	100000	MASSEL STATE	
ifer	28/ Alluvial Formation	#	PR SE	经数据	经系统			2757年本
3	29/ Volcanic Formation	#		191.63			1000	2000年2000年 1月1日 第1日
<b> </b>	30/ Limestone Formation	#	44.44		12.336			
	31/ Sandstone Formation	#	184.58	12.25.25	lo Lin		in in the	<u>ڋڗڋڒ</u> ڹڎؚۮ
	32/ Other Sediment Formation	#	48946	沒有條例	MATERIAL SERVICES	1340	113. W. 37.	Market St.
1	Technical	<del> </del>	<b> </b>	<u> </u>	· <del></del>	<del> </del>		
ير ا	33/ Minimum Yield < 10 m /h	#						
Za Z	34/ Minimum Yield >= 10 m³/h	#	<b></b>	<del></del>		ļ	14	
Spring Info.	Other	<del> -</del>	<del></del>	<u>.                                    </u>				<del></del>
, z	35/ Tapped Using Gravity	#	1		6	1		_
	36/ Undeveloped Using Gravity	#	i					3
	37/ Untapped Spring  ND. # - Specify figure	#	<u> </u>			<u> </u>		

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	nt: Water Sources - General Information		Page :	l of i	Date:		Filename: b2	0-res xls
	Collection Level: Municipal		Prov. No.:			Shtname: (	M) General In	formation
Regio	n Number: 01			: Ilocos Nort			Form No	
	Municipal Number/Municipal Name			ingras/01280	)9	L C	lumalneg/0128	018
	Type of Source		Shallow Well	Deep Weli	Spring	Shallow Well	Deep Well	Spring
	1/ Total Number of Source	#	216	8	7	2	0	2
	Implementation			Ĺ		L		
	2/ Government Agency	*	37	. 8	7	2		2
	3/ Private	#	199					
	Usage							
ا ۽ ا	4/ Drinking	#	216	. 3	7			2 .
l g	5/ Washing/Bathing	#	216	3	7			2
General Information	6/ Gardening	#	216	3	7			2
😫 ]	7/ Irrigation	#	216		•			
펺	8/ Industrial	#						
ij	Water Quality	1						
0	9/ High Iron/Manganése Content	*					<del></del>	
	10/ High Chloride Content	#		•				
1	11/ Turbidity/Color/Smell	#		1			٠	
1	Production	1						•
	12/ Less/No Water in dry season	1,						
1	13/ Usable through the year	*	216	6	7	ļ	-	2
	Technical	†	<del> </del>					
i i	14/ Diameter < 100 mm (4")	#	3.678	333		到於沒	\$\$.X.\$.E	(Mar. 1977)
	15/ Diameter >= 100 mm (4")	#	7777		72(1)2.7 23(1)3.1			126 37
٦	16/ SWL < 5 m below ground	#	ELICIAL SE CASA DE	arms inconstrui	KENER JACKELE	200000000000000000000000000000000000000	CA WICHERSON WEST	A 5325 (O) 1314 (1 1 1
ğ	17/ SWL >= 5 m below ground	*				Į		
Ę	18/ Specific Capacity < 3 m²/hr/m	,,	SOME	1985		5.00 X 54.50		313878 C
Ĕ	19/ Specific Capacity >= 3 m <sup>3</sup> /hu/m		e y comm	<b>5</b>	10.4		139650	111111
Welf Information	20/ B-Value < 1,000 s/m <sup>3</sup>		100					
1	21/ B-Value < 1,000 s/in <sup>3</sup>	".						
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	"	9.00	Leer vo	<b>3</b> 15 1		Astrony	
	1	"	SAN TEN	<b>"大学</b> "	(有)(表)(是)	<b>建设</b> 存的	34 Y 31 W	李子华
	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup> Technical	<b> </b> #-			MODEL SE	N878 V	126 024	10000
	24/ T-Value < 0.001 m <sup>2</sup> /s	_	32121	EFFER N		60083187	A SECTION	(2/2/3/3/3
	25/ T-Value >= 0.001 m <sup>2</sup> /s	"		K) 455		1813	d Herican	
8	1	[ "	-	17 mg 44	H. Add	BARY.	446-391	
rmation	26/ S-Value < 0.01	"	JANA N	<b>(数)</b>	HARAN.	<b>以</b>	<b>持续持</b>	的数据等
	27/ S-Value >= 0.01	#	12.00		W 150 160	ki wasii	理学等的	
Ę	Geology 28/ Alluvial Formation	-	2005			14352AV	is he xori	19851.0887
Aquifer Info	29/ Volcanic Formation	[ "	1000	接続新		HARA	14.0	30.14
रॅ	30/ Limestone Formation	["	1999	接納	4-5-6	\$ 3 N	中學語學	急使多化
	· ·	"	14.00		444	经验	1375年於	1.53
	31/ Sandstone Formation	#						
<b> </b>	32/ Other Sediment Formation	*	12883				Medwig.	<b>医多数数</b>
1	Technical  3.V Minimum Yield < 10 mVh	+	<b> </b>	L		<del> </del>		
ف	1 ·	1 "	Į.					4
Spring Info.	34/ Minimum Yield >= 10 m <sup>3</sup> /h	#	<del> </del>	<del> </del>	·	<del> </del> -		
Ě	Other 35/ Tapped Using Gravity	-	<del> </del>	1	7	<del> </del>		
S	36/ Undeveloped Using Gravity	1			,			2
	]	#			1	1		
<u>L</u>	37/ Untapped Spring  ND. # · Soccity figure	#_	<u>l</u>	<del></del>		1		

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Content: Water Sources - General Information		Page :		Date:		Filename: h2	
Data Collection Level: Municipal		Prov. No.:	0128		Shtname: (	M) General In Form No	formation
Region Number: 01			Hocos Norte		r		
Municipal Number/Municipal Name			spiritu/01281	1	Shallow	ooag City/0128	
Type of Source		Shallow Well	Deep Well	Spring	Well	Deep Well	Spring
1/ Total Number of Source	#	149	70	2	2,090	111	6
Implementation	<u> </u>		L		ļ		
2/ Government Agency	#	53	. 29	2	482	58	6
3/ Private	#_	96	41		1,608	53	
Usage						<u></u>	
4/ Drinking	#	139	. 17	. 2	2,045	109	6
S 5/ Washing/Bathing	#	139	47	2	2,045	109	6
E 6/ Gardening	#	139	47	2	2,045	(09	6
51 Washing/Bathing 61 Gardening 71 Irrigation 81 Industrial Water Quality	#	1		•			
7 8/ Industrial	*			-			
Water Quality	<del> </del>						
9/ High Iron/Manganese Content	#						
10/ High Chloride Content	#		± .	•			
11/ Turbidity/Color/Smeil	#	Į	•				
Production	+	·					
12/ Less/No Water in dry season	#		·		834		
13/ Usable through the year	#	139	47	2	1,211	109	6
Technical	-	<u> </u>	1				
14/ Diameter < 100 mm (4")	#	<b>学是多数</b>	[李传文]	871-32-37	344	141712	1732
15/ Diameter >= 100 mm (4")	#	777.13	13.00		接望於		建造文
	#	Production and	** ***********************************	A reference w	1,32		
17/ SWL >= 5 m below ground	#	1	1				
16/ SWL < 5 m below ground 17/ SWL >= 5 m below ground 18/ Specific Capacity < 3 m³/hr/m 19/ Specific Capacity >= 3 m³/hr/m 20/ B. Value < 1,000 s/m³	#	400 CA	<b>"</b> "				380
19/ Specific Capacity >= 3 m <sup>3</sup> /hr/m		777	V(x,y)			3 7 6 5 5 5	
157 Specific Capacity >= 3 to 500711			110	Wints.			
				53			
21/ B-Value < 1,000 s/m <sup>3</sup> 22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	<u>"</u>		100		11.17	3 7 5 6 7	
1	, ,	专疗家	de di	7,742,17	Trisia	yn wei ver	3/4/31
23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup>		LANGE WES	MARZEA	13/115/200	A SECTION AND ADDRESS.	Salar Salar Salar	
Technical	- #	NIC.	144370	FMXXS	Mest a		19.5%
24/ T-Value < 0.001 m <sup>2</sup> /s	<sup>"</sup>	LASS.				Markin Kar	医院教
25/ T-Value >= 0.001 m <sup>2</sup> /s	"	15.34	for the	<b>EXSTA</b>	Hydri		
26/ S-Value < 0.01		190	n in it is the	传统	修订等	<b>V</b> NOVES	<b>克里斯</b>
27/ S-Value >= 0.01		100000	STATE OF THE STATE OF		r see en nie	ATTER PROPERTY	************
Geology		100000	1000	is it save	4 57.5M	* 1.4500 B	
Geology 28/ Alluvial Formation 29/ Volcanic Formation	"	<b>1</b>	10341	制制	計算管核	<b>对</b> 【数数数数	
29/ Volcanic Formation	[ #	1000	当为一	H-71-95	北京		
30/ Limestone Formation	"	自分分类		17700	计论的	<b>Altitud</b>	
3H Sandstone Formation	1			*			
32/ Other Sediment Formation		<del>22</del>   48		952733	9 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>ev163611-58 g</u>	<u>(1947)                                    </u>
Technical		;		2	-1		
33/ Minimum Yield < 10 m /h	,			L	1		•
\$ 34/ Minimum Yield >= 10 m³/h	<del> </del> *	<del></del>	· · · · · ·		-		
34/ Minimum Yield >= 10 m³/h  Other  35/ Tapped Using Gravity		<del>,  </del>		2			6
35/ Tapped Using Gravity				-			2
36/ Undeveloped Using Gravity	1	<b>,</b>					-
37/ Untapped Spring  LEGEND # - Specify figure		<u> </u>			<del></del>		-1.70

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	nt: Water Sources - General Information		Page :		Date:	Filename: h20-res.xls			
	Collection Level: Municipal		Prov. No.:			Shtname: (	(M) General In		
Regio	n Number: 01			: Ilocos Nort		T	Form No		
	Municipal Number/Municipal Name		Shallow	larcos/01281	13	Shallow	lueva era/0128	114	
	Type of Source		Well	Deep Well	Spring	Well	Deep Well	Spring	
	1/ Total Number of Source	#	437	11	5	16	15	10	
	Implementation								
1	2/ Government Agency	#	253	11	5	16	15	10	
•	3/ Private	#	184			[			
	Usage								
ء	4/ Drinking	#	427	5	5	11	10,	10	
ig.	5/ Washing/Bathing	#	427	5 ·	5	13	10	01	
General Information	6/ Gardening	#	84	5	1	н			
Į,	7/ Irrigation	#				ŀ			
7	8/ Industrial	#							
ğ	Water Quality						:		
ľ	9/ High Iron/Manganese Content	#							
	10/ High Chloride Content	#							
	11/ Turbidity/Color/Smell	#				•			
	Production								
	12/ Less/No Water in dry season	#	86			1	•		
	13/ Usable through the year	#	427	5	5	11	10	01	
	Technical						*		
	14/ Diameter < 100 mm (4")	#.		3 - 3 - 3 - 3 - 3					
	15/ Diameter >= 100 mm (4")	#	1.35	32.50	7 NEW	1400	Market !		
ě	16/ SWL < 5 m below ground	#		;		11			
rat.	17/ SWL >= 5 m below ground	#					10	ì	
Well Information	18/ Specific Capacity < 3 m³/hr/m	#				紧急环			
H	19/ Specific Capacity >= 3 m³/hr/m	#		7. 18. 3.	6.72.65		1/45/41		
Š	20/ B-Value < 1,000 s/m <sup>3</sup>	#	1928 (21)		49.44	1925	180%	12/04	
	21/ B-Value < 1,000 s/m3	#		<b>*1389</b>					
١.	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#							
. :	$2M$ C-Value >= $60,000 \text{ s}^2\text{m}^6$	#				100			
l	Technical	T	<u> </u>	22223121	<u> </u>		33.2.3.2.3.2.	**************************************	
	24/ T-Value < 0.001 m <sup>2</sup> /s	#		多特殊法		388	KARAT	<b>1000</b>	
_	25/ T-Value >= 0.001 m <sup>2</sup> /s	#					Parti		
mation	26/ S-Value < 0.01	#	可是被	77.53			hist		
Ê	27/ S-Value >= 0.01	*	1.48	311.50				32.45	
ş	Geology			TENNY AST	. +3 +2 -732 -1		andrewalla	<u> </u>	
Aquifer Info	28/ Alluvial Formation	#					1334		
Qui.	29/ Volcanic Formation	#					12.53		
₹	30/ Limestone Formation	#				LINES.	1: 25		
	31/ Sandstone Formation	*		物物類	的极效	07/253	体系统相	的数数	
	32/ Other Sediment Formation	#	支持的	ny system	主义者	清楚的	控制	<b>建模型</b>	
	Technical	†-					er duaziti	A.P. 44.43	
	33/ Minimum Yield < 10 m³/h	#		<del></del>					
မွ်	34/ Minimum Yield >= 10 m /h	#				1		10	
Spring Info.	Other	1			•	l			
Ę	35/ Tapped Using Gravity	#		····	5	<del></del>		10	
~	36/ Undeveloped Using Gravity	#			3			ì	
1	37/ Untapped Spring	#				ŀ		·	
LIG	ND. 4 - Specify figure		<u> </u>	·		<del> </del>			

	nt: Water Sources - General Information		Page :		Date:		Filename: h2	
	Collection Level: Municipal		Prov. No. :			Shtname: (M) General Information Form No. : M 4.1		
Regio	n Number: 01			: Hocos Norte				
	Municipal Number/Municipal Name			gudpud/0128	15		Paoay/012816	
	Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	1/ Total Number of Source	#	171	11	15	4,104	36	1
	Implementation					. <del> </del>		
	2/ Government Agency	#	108	- 11	15	75	36	1
	3/ Private	#	63			4,029		
	Usage							
_	4/ Drinking	#	162	8	15	3,732	. 36	· 1
ţ	5/ Washing/Bathing	#	162	8	15	3,732	36	1
ĝ	6/ Gardening	#	162	8	15	14		1
ş	7/ Irrigation	#	1	•		363		j
1	8/ Industrial	#				1		
General Information	Water Quality	-	<u> </u>			· · · · · · ·		
Ğ	9/ High Iron/Manganese Content	#		:				
	10/ High Chloride Content	#	1		-	]		
	11/ Turbidity/Color/Smell	#		•				
	Production	1	l	1				
	12/ Less/No Water in dry season	#			÷			
	13/ Usable through the year	#	162	8	15	3,732	36	1
	Technical			1	<del>i</del> -	l		
	14/ Diameter < 100 mm (4")	*						
	15/ Diameter >= 100 mm (4")	#						
E	16/ SWL < 5 m below ground	-#	ESSTEAD FAR G	CALL CONTRACTOR SECURITY	Carrier Control Services	E SIMENEAU AND	A SECTION AND AND ADDRESS OF THE	N. H. Carlo Carlo Carlo Carlo
atio	17/ SWL>= 5 m below ground	,,			•	ŀ		;
Well Information	18/ Specific Capacity < 3 m <sup>3</sup> /ba/m		REFEREN		<b>阿勒勒斯</b>	MEAN	415-47-41	TAKUT.
Ş		2			Hely (Marie			
[H)	19/ Specific Capacity >= 3 m³/hu/m		32.77			10.117.72	$L_2(x,t)$	
3	20/ B-Value < 1,000 s/m <sup>3</sup>	[ "						
	21/ B-Value < 1,000 s/m <sup>3</sup>	"	S-1-4-		4.4	1111	10000	25.78.5
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	3.04.00	1423	1484年	16676	4-24-4	神多世
	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup>	#	B Section 1	738833		1802 / S		
	Technical	L	SS (5.255 to	<u>बिद्युवर</u> ुख	किस्ट इंटर इंटर इंटर इंटर	essus.	ยบรถชนา	27 33.74 80.
	24/ T-Value < 0.001 m <sup>2</sup> /s	*				13.00	1633	
g	25/ T-Value >= 0.001 m <sup>3</sup> /s	#.		15.16		146%		7577
ation	26/ S-Value < 0.01	#	11.51.7		100 150	1400	14条数	WARRY
	27/ S-Value >= 0.01	#	HA TO	1400 AS		建建筑级	11878765	<u> </u>
Aquifer Inform	Geology	+	CONTRACT PROPER	185 X 32 2 2 2 3 3	<b>1</b> 45.777878	122223	্রামন্ত্রন এবং ব্যামন্ত্রন এবং	@\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
ifer	28/ Alluvial Formation	#		14.5.4				
0	29/ Volcanic Formation	#			<b>经验</b> 公司	1334	44.5	
<sup>&lt;</sup>	30/ Limestone Formation	#	2.00	13.33	13810	10 yes	和新数据	
	31/ Sandstone Formation	*	<b>X</b> 3%			加速等	生物	
	32/ Other Sediment Formation	#		1.1.		<b>188</b> 3	种形态之	
	Technical	ļ		<u> </u>		ļ		
١.	33/ Minimum Yield < 10 m³/h	#				-		
gu	34/ Minimum Yield >= 10 m³/h	#	<b></b>			<b></b>		
첉	Other	-ļ	<u> </u>	<u>i</u>		<b> </b> -		
Spring Info.	35/ Tapped Using Gravity	#	1		15			ı
l ‴	36/ Undeveloped Using Gravity	*						
ı	37/ Untapped Spring	#	<u> </u>		l	<u></u>		

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Conte	nt: Water Sources - General Information		Page :	Lof 1	Date:		Filename: h2	
	Collection Level: Municipal		Prov. No.:			Shtname: (	M) General In	formation
Regio	n Number: 01			: Hocos Norte			Form No	
	Municipal Number/Municipal Name			isuquin/0128	17		Piddig/012818	3
	Type of Source	·	Shallow Well	Deep Well	Spring	Shallow Well	Deep Welt	Spring
	1/ Total Number of Source	#	1,843	15	9	515	1.5	77
	Implementation	L	<u></u>					
	21 Government Agency	#	84	15	9	60	15	7
	3/ Private	#	1,764			455		
	Usage							
-	4/ Drinking	#	1,833	12	9	513	13	6
atio	5/ Washing/Bathing	#	1,833	12	9	513	13	6
General Information	6/ Gardening	#	1,833	12		513	13	6
gu.	7/ Irrigation	#	70		9	58		
	8/ Industrial	#	1					
S	Water Quality							
ن	9/ High Iron/Manganese Content	ä		,				
	10/ High Chloride Content	#		•				
	11/ Turbidity/Color/Smell	#						
	Production							
	12/ Less/No Water in dry season	#	764					11.7
	13/ Usable through the year	#	1,069	12	9	513		7
	Technical							
	14/ Diameter < 100 mm (4")	#						
	15/ Diameter >= 100 mm (4")	#				10 多数 5 数 数 新 4		ACOUNT OSSIGN
Ĕ	16/ SWL < 5 m below ground	#	664					
pti	17/ SWL >= 5 in below ground	#	1.169	•		1	•	
Well Information	18/ Specific Capacity < 3 m <sup>3</sup> /hr/m	#	<b>聚新</b> 源	<b>医温克德</b>		新规划		
Ĕ	19/ Specific Capacity >= 3 m³/hu/m	#		177.5		**************************************		
رد!! مردا	20/ B-Value < 1,000 s/m*	#	100					
	21/ B-Value < 1,000 s/m	#				3.78		
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	也特	12.70	化物液处		<b>建筑建筑</b>	物特別被
1	237 C-Value >= $60,000  \text{s}^2 \text{m}^6$	"	14.48	1779	计分数	分别类的	<b>滑进护</b> 力	A 1375
	Technical	<del>  "</del>	160.500	135/15/5		10-16-20-20-2		
•	24/ T-Value < 0.001 m <sup>2</sup> /s	#	1000	L. 1634	17.54	523.53		W. 3. 7. 8. 12.
	25/ T-Value >= 0.001 tm/s	,	AN ARK					
g	26/ S-Value < 0.01	"	1000	1	27544	(referred		ri rayaji
mation	The second secon	"			A-WA		$\{ \{ \{ \}_{i} \}_{i \in I} \}$	出身分类
	27/ S-Value >= 0.01 Geology		100000		1301455TQ	1.00009186	SECTORIAL PROPERTY.	.03947 <b>8</b> 74.
E	28/ Attavial Formation	<u>,</u>	39,38 865	iassen.	N # # 4	H324 340	11348 20.5	0000
Aquifer Infor	29/ Volcanic Formation	"		中外域	fig. st	Higgs by	<b>有利表</b>	拉萨洛萨
ş	30/ Limestone Formation	"	High	1 * ** *** • ***	<b>图</b> 遗传		技术的	自家有意
1	· · · · · · · · · · · · · · · · · · ·	] [	12.23				指示证	
	31/ Sandstone Formation	#	[表表於					
_	32/ Other Sediment Formation		12.56			hrisigi	Regions.	
	Technical 221 Marian National Actions 201	#	<del> </del>	<del></del>		· <del> </del>		
i o	33/ Minimum Yield < 10 m³/h	1	i					
Spring Info.	34/ Minimum Yield >= 10 m³/h	- -#	·	T	·····			<del></del>
ίς χ	Other 26/ Tennyl Heina Gravity	+	1	<u> </u>	9	<del>                                     </del>	<del></del>	ำ
Š	35/ Tapped Using Gravity	1	1			1		7
	36/ Undeveloped Using Gravity	#			1			_
<u> </u>	37/ Untapped Spring	#	<u> </u>			<u> </u>		

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Conte	nt: Water Sources - General Information		Page :		Date:		Filename: h2		
	Collection Level; Municipal		Prev. No.:			Shiname: (M) General Information Form No.: M 4.1			
Regio	n Number: 01			: Hocos Nort		C-	n Nicolas/0128		
	Municipal Number/Municipal Name		·	Pinili/012819	·	Shallow			
	Type of Source		Shallow Well	Deep Well	Spring	Well	Deep Well	Spring	
	1/ Total Number of Source	#	1,064	5	0	122	25	6	
	Implementation			L					
	21 Government Agency	#	143	5		62	. 22	6	
	3/ Private	#	921			60	3		
	Usage			1					
_	4/ Drinking	#	1,064	5		103	21	6	
E E	5/ Washing/Bathing	#	1,064	5		103	21	6	
Ē	6/ Gardening	#	1,064	5	•	103	21	6	
Seneral Information	7/ Irrigation	#			-	·			
ı,	8/ Industrial	#		•					
ner:		<del> </del>				<del> </del>	:		
Sel	Water Quality 9/ High Iron/Manganese Content	#			:	i	- <del></del>		
	I a company to the state of the company of the com		ŀ				÷		
	10/ High Chloride Content	["							
	11/ Turbidity/Color/Smell	#		<del> </del>	<del> </del>				
l	Production	1		ļ		<b></b>	<u> </u>		
	12/ Less/No Water in dry season	#	1			٠,,,			
<u> </u>	13/ Usable through the year	#	1,064	5	<u> </u>	103	21	6	
	Technical	<del> </del>	সভা সভাল		ra essen		Jan Massa	1870 (1945)	
	14/ Diameter < 100 mm (4")	#	187 \$ X 1880	4 4 m ( )					
	15/ Diameter >= 100 mm (4")	#	Trainer.	J. MALE	Die Ein	1,128,131,51		ESTATES.	
g	16/ SWL < 5 m below ground	.#		•					
Nell Information	17/ SWL >= 5 m below ground	#		ia <del>- Li</del> escreta di centralia	an je rozest som	18875.612	an ea ce.a	10 Jan 1986 - 15	
Ę	18/ Specific Capacity < 3 m3/hr/m	#				12 (8)			
3	19/ Specific Capacity >= 3 m <sup>3</sup> /hr/m	#	TETET STATE	(A. 6)					
💈	20/ B-Value < 1,000 s/m3	1 #				100 Mar 60			
^	21/ B-Value < 1,000 s/m <sup>3</sup>	#	10.5	接接系	To the	100			
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)		STATE	2.3030	160,500	<b>经现</b> 类			
	· British Control of the Control of	#	(1) (1) (1) (1)	17.	No wind	137 17:5			
	$23/\text{ C-Value} >= 60,000 \text{ s}^2 \text{m}^6$	+"		2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7.50.824.94.8	. 1.38.384.384	(4.1) 1/20-19: 1.2.4.4)	<u> </u>	
	Technical	+ #	35,555	12222		735E			
1	24/ T-Value < 0.001 m <sup>2</sup> /s	"	1888			<b> </b> 花蕊:			
ĕ	25/ T-Value >= $0.001 \text{ m}^2/\text{s}$	"	1	1.00	100	1555	Mr. Trest		
mation	26/ S-Value < 0.01	#	33.44		144.54	1000			
Ę	27/ S-Value >= 0.01	#	24N.M	455.69	History (F)				
Aquifer Infor	Geology	+	\$67 E 1813 T			Program			
į	28/ Alluvial Formation	#				1层多美			
E.	29/ Volcanic Formation	#		127.7		1380	<b>月</b> 名第三		
<sup>&lt;</sup>	30/ Limestone Formation	#						, , <sub>i</sub> š .	
ł	31/ Sandstone Formation	#	W. SA	1200			<b>对</b> 被执行。		
1	32/ Other Sediment Formation	#	\$1485E)	17079	EX INC.			图的 特殊	
	Technical			1				<u>:</u>	
	33/ Miniroum Yield < 10 m /h	#	1					7	
ŝ	34/ Minimum Yield >= 10 m³/h	Ħ	+				· · · · · · · · · · · · · · · · · · ·		
Spring Info.	Other								
Ę	35/ Tapped Using Gravity	#						6	
\ \tilde{\sigma}	36/ Undeveloped Using Gravity	#							
	37/ Untapped Spring	#	:[						
<u></u>	END # Soccify figure			·					

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Conte	nt: Water Sources - General Information		Page :	1 of 1	Date:		Filename: bi	O-ces vis
	Collection Level: Municipal		Prov. No. :		D44.	Shtname: (	M) General Ir	
	n Number: 01			: Hocos Nort	e		Form No	
	Municipal Number/Municipal Name			Sarrat/01282	1	S	olsona/01282	2
	Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	1/ Total Number of Source	#	1,866	25	4	19	7	9
	Implementation		<del>-</del>	1			•	
	2/ Government Agency	#	70	25	4	7	7	9
	3/ Private	#	1,796			- 12	•	
	Usage			[				
_	4/ Drinking	#	1,855	23	4	19	.5	9 .
Ęį	S/ Washing/Bathing	#	1,855	23	4	19		
General Information	6/ Gardening	#	1,855	23		19		
홅	7/ Irrigation	#	2				•	
Ĭ	8/ Industrial	#	l -					
ner	Water Quality	Ë	<del>                                     </del>				<u>!</u>	<del></del>
Ğ	9/ High Iron/Manganese Content	#	<del></del> -	i			<del></del>	
	10/ High Chloride Content	#	· ·					
	11/ Turbidity/Color/Smell	#	ŀ		*			
	Production	-	<del> </del>	•		}	:	
	12/ Less/No Water in dry season	#	345	!				
	13/ Usable through the year	#	1,855	23	4 :	19	5 -	9
	Technical	-"-	1,000	<u> </u>		17		
	14/ Diameter < 100 mm (4")	#	100 (m) (m)		300000	345.50		
	15/ Diameter >= 100 rnm (4")	4						
	16/ SWL < 5 m below ground	"	HILLIGHE			GPERME.	1859 NYSA	residente.
īţ	17/ SWL >= 5 m below ground	"						
Well Information	I the second of	#	8397.018.77.E	isa san	1935,0595	MB3824478	125791256	TOTAL GEG
gu	18/ Specific Capacity < 3 m <sup>3</sup> /hr/in	#			WAR SE			
=	19/ Specific Capacity >= 3 m³/hr/m	#	100					
3	20/ B-Value < 1,000 s/m <sup>3</sup>	#				2300		
	21/ B-Value < 1,000 s/m <sup>3</sup>	#.		1.5 2.5	\$ 0.444.4	x + 2 1 12 1 14.5	14 3 3 3 1	12-14-17 ·
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	* Y 1 (2)	13.28			1000	Wall of the
	23/ C-Value >= 60,000 s <sup>2</sup> m <sup>6</sup>	#	10000	36793		(2) (4) (4)		
	Technical	ļ.	PS 47.39278		: তেখেলত সময়স	ายครอบ นามมา เอเครอบ นามมา	! 10000000000	इद्धर पट र तर
	24/ T-Value < 0.001 m <sup>2</sup> /s	#						en de la composition de la composition La composition de la composition de la La composition de la composition della com
g	25/ T-Value >= 0.001 m <sup>2</sup> /s	#		203.163	1000	e vice		
nation	26/ S-Value < 0.01	#	100000	100000		1505.40	E11.50	
orm	27/ S-Value >= 0.01	#	27.00	87667	3156	<b>KA 343</b>	間多意味	
Infe	Geology	<u> </u>			ر مصند شرک درگار درگار درگار 	THE STEEL WILLIAM	ाः गेनस्य सरस्य अस्तुरहरू	والمعروب والمراكبين
Aquifer Inforn	28/ Alluvial Formation	#					ISNA!	
40	29/ Volcanic Formation	Ħ	经验检		2011.30	14000	接接到	
. *	30/ Limestone Formation	#	经净的	10.133	3 3 4 7	3437		
	31/ Sandstone Formation	#					性的原	
	32/ Other Sediment Formation ,	#						
:	Technical							
	33/ Minimura Yield < 10 m²/h	#						
ف	34/ Minimum Yield>= 10 m³/h	#	<u>L</u>		4	L		
Spring Info.	Other							
ring	35/ Tapped Using Gravity	#			4			9
Š	36/ Undeveloped Using Gravity	#			l			
	36/ Undeveloped Using Gravity	#				1		
	37/ Untapped Spring	#				1		
L1,GE	ND. # Specify figure		<u></u> -		**-*	<del></del>	<del></del>	







Conte	nt: Water Sources - General Information		Page :	t of 1	Date:		Filename, h2	0-res.xls
Data (	Collection Level: Municipal		Prov. No.:			Shiname: (	M) General In	formation
Regio	n Number: 01			: Hocos Nort			Form No	: M 4.1
ļ	Municipal Number/Municipal Name			/intar/01282	3	CL . 11		
	Type of Source		Shallow Well	Deep Well	Spring	Shallow Well	Deep Well	Spring
	I/ Total Number of Source	#	282	30	54			<del></del>
	Implementation			i				
	2/ Government Agency	#	56	30	54			
	3/ Private	#	226					
	Usage							
ٰ ۽	4/ Drinking	#	282	24	54			
atio	5/ Washing/Bathing	#	282	24	54			
Seneral Information	6/ Gardening	#	282	24	54			
oğu 1	7/ Irrigation	#						
펺	8/ Industrial	#						
ene	Water Quality							
٥	9/ High Iron/Manganese Content	#			-			- ]
•	10/ High Chloride Content	#						·
	11/ Turbidity/Color/Smell	#	1					
1	Production	[		1				
1	12/ Less/No Water in dry season	#						
	13/ Usable through the year	#	282	24	54			
	Technical		77788 2323	 	rarranazara	en e	arenerasenen	ক্ষেত্ৰ কৰিব বিভাগৰ ব
	14/ Diameter < 100 mm (4")	#	14 to 1		3.15/3.44		社会经验公司	
l	15/ Diameter >= 100 mm (4")	#						A
g	16/ SWL < 5 m below ground	#		:				
2	17/ SWL >= 5 m below ground	#	282	24				
Well Information	18/ Specific Capacity < 3 m³/hr/m	#	<b>又</b> 多大党员	(				
ä	19/ Specific Capacity >= 3 m³/lu/m	#						
ĕ	20/ B-Value < 1,000 s/m <sup>3</sup>	#						
	21/ B-Value < 1,000 s/m <sup>3</sup>	#	13.53	3 1938			17.7.7.N.	<b>3</b> (1.5)
	22/ C-Value < 60,000 s <sup>2</sup> m <sup>6</sup> (Well Loss Const.)	#	\$ 18 P	() 中华	14.60	<b>蒙蒙海</b> 蒙	43244	2000年於
	23/ C-Value >= $60,000 \text{ s}^2\text{m}^6$	#	33.0	13/23:		37.2		
	Technical	T	***************************************			220343.113		
	24/ T-Value < 0.001 m²/s	#		\$ 188				
	25/ T-Value >= 0.001 m <sup>2</sup> /s	*	<b>"</b> "表现。	18.50	1.600		1 8 32	
mation	26/ S-Value < 0.01	*	开州家		NYS TO		级有领别	
	27/ S-Value >= 0.01	#	[]Y. 38.		raik Kara			
Aquifer Infor	Geology	<u> </u>						
, E	28/ Alluvial Formation	#				140	11.55	
duit	29/ Volcanic Formation	#		187.83	No.			
Ĭ	30/ Limestone Formation	#	使物					
1	317 Sandstone Formation	#		1300				
	32/ Other Sediment Formation	#	直接数	<b>[核形形</b>	11.00.00	13000	E SACK	
	Technical	$I^-$	1.00.00.22.82					
I	33/ Minimum Yield < 10 m³/h	#		<del>,</del>				
હું	34/ Minimum Yield >= 10 m³/h	#	i					
Spring Info.	Other	1	<b> </b>			İ		
Ě	35/ Tapped Using Gravity	#	1	•	54	]		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	36/ Undeveloped Using Gravity	#				İ		
1	37/ Untapped Spring	#						
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#### 7.3 Groundwater Sources

Major References

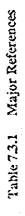
Table 7.3.1

### 7.3.2 Groundwater Availability in the Province

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
6	Topographic Map (1:50,000)	NAMRIA	topographic contours, natural waterways, road, etc.	highest peak, major river basins	Figure 7.5.1 Table 7.6.2
ю	Rapid Assessment of Water Supply Sources	NWRB	groundwater availability, well data and inventory	groundwater availability. well no. of wells, well specific capacity, static data and inventory	Tables 7.1.1, 7.6.1, 7.6.2, 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
δ,	Geology and Mineral Resources of the Philippines	BMGS	Philippine physiographic provinces, sedimentary, metamorphic and igneous rocks	stratigraphy of Hocos Norte	Section 7.2 Table 7.6.2
· •	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
12	Reconnaissance Hydrogeological Survey of Ilocos Norte	BMGS	hydrogeological characteris- ties of the province	hydrogeological description of particular lithologic units in the province	Sections 7.2 & 7.3
∞	Preliminary Report on the Hydro- geological Survey of Ilocos Norte	BMGS	- op	-op-	Sections 7.2 & 7.3
6	Geological Interpretation of Multi- level Remote Sensing Data of Ilocos Norte	BMGS	lithologic distribution, structural and morphological features of the province	lithologic, structural and morphological description of the province	Sections 7.2, 7.3 Table 7.6.2







NO.	REPORT/INFORMATION	AGENCY/AUTHOR/ PUBLISHED YEAR	CONTENTS	REFERENCE DATA/DESCRIPTION	OUTPUT
10.	Philippine Water Resources Summary Data	DPWH/BRS	stream flow and lake or river stage	suream flow and lake or river flow rate measurements and drainage areas stage	Table 7.5.1 Section 7.5
11.	11. Provincial Profile	PPDO-llocos Norte	physical & socio-economic description of the province	land area of municipality	Table 7.6.2 Sections 7.2, 7.3.2
12.	Land Resources Evaluation Project of Ilocos Norte (Part I)	Bureau of Soils	physical characteristics of Hocos Norte	major river basins in the province	Table 7.6.2 Section 7.2
13.	Feasibility/Engineering Studies for Ilocos Norte, Badoc and Sarrat Water Districts	TWUA	Water District's existing facilities, demand projections, proposed program of works	aquifer characteristics, spring sources and water quality description	Table 7.6.2 Section 7.3.2, 7.6

Table 7.3.2 Well Inventory by Municipality

MONICIPAL	COLATION	ON THE TOTAL	TIVO	1 DEFIN	74.0		CANANA	5	27.00	
BACAKKA	CABARKUAN	VEW INVIN	LEWING	6.71	3.05	0.32	0.62	O.51X		
BACAKKA	CABULALAAN ELEM, SCHOOL	NW.407510	57/81/20	X :-	4.57	0.50				
HACAKKA	CABUSLIGAN	NWS14940	04/10/157	10.47	4.57	0.38	0,62			
BACARKA	CADARATAN	18PW10523	02/24/56	9.15	1.83	0.75	03:0	17071		
BACARKA	CASILIAN	8PW30769		07.6	2.74	0,63	0.30	2.100		
BACAKKA	СОКОСОК	BP307628		15.20	2.44	0.95				
BACARKA	COROCOR		\$9/01/60	8.23	2.13	6.63	0:30			
BACAKKA	DURIPES		95/90/90	18.29	3,06	0.57	060			
BACAKKA	CONACAN	BP307539		47.20	15.20	-				
BACAKRA	CONACAN	NWS20157	04/10/58	18.29	4.57	0.63	16.0	0.690		
BACAKKA	LIBTONG			01.6	3.05	0.63	0.61	1.030		
BACARRA	LIBTONG		04/15/57	12,20	4.57	0.38	0.31	1.242		
BAÇARKA	MACUPIT	NWS21632	•	06.41	4.28	0.63				
BACAKKA	NALBA	BP297331	91767774	06'81	1.52	0.63	1.52	0.414		•
BACARKA	NAMBARAN	NW307631		21.40	3.10	0.63	0.61	1.030		
BACAKKA	PAMABUAN	NW210041		11.50	7.32	0.63		-		
BACAKKA	PANINAN	NW216036		25 90	7.62	0.63	\$.T	0.410		
BACARKA	PULANG	BP307537		09:81	-	_				
BACARRA	SANGIL	BPW20158	95/13/58	36.59	13.72	0.32	1.52	0.210		
BACARRA	TEPPANG		10.94 10/57	51.6	4.57	0.32	0.31	1.036		
BACARKA	(TUBBUKAN	B1030985	08/21/85	30.50	1.52	69.0				
BACAKKA	TUBBURAN	NWS21714	12/51/60	36.81	3.05	0.61	0.59	1:034		
BACARKA	HALL DURIPES	B1030186	03/17/86	21.30		-				
BACAKKA	PARANG ELEMENTARY SCHOOL	B1032786	12/27/86	30.60		69'0				
BACAKKA	POBLACION	BPW-1437		106.60		ļ		-		ABANDONED
BACAKKA	POBLACION 3	BPW-1543		48.70		}				ABANDONED
BADOC	ALAY	3173.94		2.30	2.KO					
SADOC	ALAY	3173-95		11.01	8 69					
SADOC	ALOGOOG	3073-53		5.45	2.00					
SADOC	VLOGOOG									
SADOC	JAK-AKUSIP	88216112	29/1/70	18,29	7.62	0.19	06.0	0.210		
SADOC	AK-ARUSIP		98/21/60	60.06	26.22					
BADOC	AR-AKUSIP	BPW21611	02/16/62	18.29	7.62	61.0	04.0	0.210		
(syboc	AKING	3073-38		4.00	2.93					
BADOC	ARING			6.05	4.45	-				
BADOC	ARING		01/30/57	12.20	3,00	0.76	61.0	4.000		
SADOC	варос	NWS-8399			4	2.52	1.52	000:		
BADOC	ВАТО	3073-84		00.4	86.1					
SADOC	BATO	3173-91		3.65	{sx:1					
DOLOG	BIMMANGA	NWS-8786		109:01	95.1	0,76	1.22	0.620		
BALXX	CANAAN				3.30	7.41	32.02	0.340		
BADOC	CAKAITAN	3073-102	08/11/72	10.72	8.72					
BADOC	CARAITAN	3073+105		06'01	54.6					
BADOC	CARAITAN	3073-107		6.80	0.85					
BADOC	CORREIA	NWS-8655		06:01	3.05	3.95	0.61	1.560		
(BADOC	CABUT NOKTE	3073-6		3.35	1.70	-				
BADOC	GABUTNOKIE			12,40	3,66	0.95	16:0	040.1		
10000	130 FX 014 32 02 4 32									

MUNICIPAL									
BALXX	ICABUT NORTE	170,5075-5		4.15	2.63				
BALXX	GABUTSUR	3073-15		2.68	0.53				
KALVX.	CABULSUR	3073-16		2.68	0.53			-	
SALVE.	GABUTSUR	3073-18		4.65	1.08				
AXIVI	GARKETA	3073-61			1.65				
2001	17KV.	3173-114	06/24/60	24.39	10.36	0.38	2.52	0.150	
777	AHIT	3173-115		14.95	3.75	ļ			
HALXX.	LACUBEN	3073-42		6.90	2.40				
NDXX.	LACUBEN	3073-51		5.10	2,10			-	
NO.	LANGAYAN	NWS-5662		100.50	27,44	0.76	19.00	0.040	
ADOC	LUBICAN		07/23/81	81.00	0.87	6.45	0.26	24.340	
BACOC	LUBIGAN	3073-76		90.9	0.15	_			
CCCAB	LUBIGAN	3073-83		90.9	86.1				
BADOC	LUBIGAN	3073-108		\$6.11					
AUXOC	LUBICAN	3073-145	07/23/81	81.00		6.45	0.27	23.900	
BACKE	LUBICAN	BPW21635	03/25/63	15,24	4.15	0.63	05.0	2.100	
HADOC	MABUSAG	81031380	07/29/86	24,40					
ALXX	MABUSAG	BP307533		27.40	2.44	0.95	3.65	0.260	
BADOC	MABUSAG	(BPW12830	15/81/20	23.78		0.76	6.30	0.120	
AXXX	MABUSAGA	3073-45		6.50	3,25	_	1	-	
ALXX	MABUSAC-A	3173-40		56.9					
Aboc	MABUSAGA	3173-47		10.05				-	
AIXX	MABUSACA	BPW-5048	02/13/57	28.96	9.10	0.63	5.73	0.110	
BADOC	MABUSAG-18	3073-65		5.60	4.00				
SVDXC	MABUSAC-8	3173-52	09/08/75	27.44				0.940	
BADOC	MABUSAC-B	3173.08		4.00					
ALXX	MOKONG	3073-72		9.40					
ADOC	MOKONC	62-5205)	,	5.35					
AUXC	IMORONG	3073-80		8.72		_			
ADOC	MORONG	3076-86		\$7.2					
ADOC	MORONG	BPW21654	09/50/10	23.17		0.32	4.26		
BADOC	NAGREBLAN	3173-103	59/51/50	25.00		0.50	1.53	0.330	
ADOC	NACKEBLAN SCHOOL	BP307627	17/02/10	96.01					
ADOC	NAPU	3073-33		14.84					
NADOC	NAPU	3073.34		5.53					
BADOC	NAPU	307.1-36		6.68					
BADOC	חאיא	3073-39		10.06	8.54				
BADOC	NAPU	BPW-9482	11/19/55	10.97		0.95	0.61	.550	
BADOC	NORTH CENTRAL	3073-54		116,16					
BADCC	PAGSANAAN SOUTH	NWS-8400	:	12.10					
BADOC	PAGNANAHAN NORTE	3073-70	02/10/57	76.01		0.76	1,51	0.500	
BALXX	PAGSANAHAN NORTE	3073-71		3.85					
BADOC	PAGSANAHAN SUK	72-5705	-	4.25		•			
BADOC	PAGNANAHAN SUK	BPW-8400	09/24/55	10.40				0.310	
BADOC	PAGUETPET	3073-98		5.45					
SALXX	PAGUETPET	9073-109		4.45					
BAUCC	PAGUETPET	3073-116		5.75		-			
									A COLUMN TO A COLU

MONICIPAL	COL VOOT									
BAIAK	ייייייייייייייייייייייייייייייייייייייי	3073-69		no.x	05.4		-	-		
KALKE	PALITI	3073-73		9.10	150:1					
RADOC	PACITI	3073-75		05.X	5.25			,		
BALKK	LAL III	3073-82		00.8	2.05	-				
RADOX	PALTIT	3073-88		8.50	2.85					
HAIVY.	(PALTE)	3073-89		5:35	3.98		-			
KAIXX	PALITI	3073-100		68.6	1.65					
BADXX	PALTIT	B1031986	11/26/86	25.80			_		-	
RADOC	PALTIT	BPW21635	03/25/63	23.17	9.14	0.63	0.31	2.030		
HAIXX	CARANC	BP307626	11/05/76	45.15	4.66	0.65				
KADOC	PARATONG	BPW12827	02/04/57	15.00	6.10	0.76	2,16	0.350		
NA DOCK	PANIC-PARANC.	BP307625	071711VO	35.67	11.28	0.63	<b>56.</b>	0,160	-	
KADOC	PANCEPARANG	BPW-6094	04/13/54	27.44	7.62	0.82	3,43	0.240		
NXIV.	KAI BALDIZ	BP216621	05/20/60	10.67	4,88,	0.63	_		į	
RADOC	SAUD	BPW12826	102/07/57	10.50	4.57	0.70	1.52	0.490		
NO.	STACKUZ	3087-87		12.50	10.15			-		
RADOC	STA. CRUZ	3073-111		7.35	0.85			_		
RATXX	ISTA CRUZ NORTE	(3073-81		5.25	2.30	-		-	_	
HALVOK	NTA CRUZ NORTE	3073-101		7.25	4.85					
HAIXX	STA CRUZ NORTE	BPW-8657	07/25/55	05.61	9.15	0.76		_		
20000	212 City City	3073-104		5.60	2.60					
WAINO	KTA CREIZ KEX	13073-105		8.00	4.05	-				
- Control	010 7107 750	1302-110	-	8.47	10.7		-			
BALKK.	SIGN CASE OF	3073-112		2.65	1.15		-			
2000	SOUTH THE PARTY OF	3073-113		85.6	5.75			_		
SALVA	LOXOL VANA PARK	3073-62			0.73		<u> </u>		-	
	DOUGH OF MANKEY	BPW-5603	12/18/52	05.1%	1,831	2.52	1.53	1,650		
RADOC	PUMPSTATION	3073-63		111,28	士	14.0	42.42	0.330		
VOC.	PUMPATATION	3073-74		65.60	80.0	3.10	28.18	0.110		
HANGE	BANCU	81033384	07/13/84	22.00	9.10	1.58			ſ	POTABLE
SANCE II	RANGULHICH SCHOOL	NWS20759		9.40	44.1	0.32		_		
KANCII	IsO AlsACA	NWS-8402		15.50	6,71	0.95	.0.	0.880		
KANGUI	BO BANBAN	NWS-7092		47.50	4.57	0.32	3.20	0.100		
KANGUI	BO, BAKUYEN	BP216141	19711/20	9.15	7.62	0.63				
BANGUI	BO. LANAO	1405-7051		04.40	7.62	0.03	1.50	0.140		
BANGUI	BO. MASIKAL	BPW10524	02/16/56	12.10	4.27	0.03	0.61	1.030		
BANGUI	BO. NAGBALAGAN	BP216151	101/31/62	20.73	3.50	0.63	0.91	0.690		
BANGUI	BO, PAGUDPUD	NWS-5570		21.30	4.27	1.58	1.52	1.040		
BANGUI	BO, PAYAC	BP216144	19/51/20	29.88	13.72	0.44	1.83	0.240		
BATAC	BATAC	NWS-1649	ļ 	08:15				-		ABANDONED
BATAC	BATACCENTRALSCHOOL	NWS13087	,	14.60					,	ABANDONED
BATAC	BATAC GENERAL HOSPITAL	NW287102		3.3	4.57	0.32		-		
ATAC	BATAC GENERAL HOSHITAL	701717WN	12/14/71	16.53	4.57				_	
BATAC	BATAC GENERAL HOSPITAL	NWS21713		83.80	3,96	0.32	2.13	0.150		
BATAC	BO.#101ACUB	NW216624	02/30/60	15.24	3.66	0.95	19:0	1.552		
BATAC	BO.#14 BARIGON	NWS16246		16.10		0.32				
BATAC	BO. #18 PANDAN	NWS29715	10/28/71	19.61	9.15	0.32				
				26 40	_		_	-		

-

SCALCIPAL.	COCATION									
KA LAC	l	DWS-ISC		OX OX	64.0	0.52				
1,00	SO #8 (LOHO)	BP216023	02/15/60	23.74	4.27	<del>।</del> क्रमः 0	0.91			
BALAC	(a) As A (i) A a 77	NWS	07/15/66	45.73	363	12.62	99%		3.450 IKRIGATION	
BAIAC	2 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	HPW-5470	07/03/52	39.63	4.57	3.74				
BAIAC	1000 00	NW	30/26/06	73.17		6,93			IKKICATION	
BATAC	BO, BAA I	50000 3783		0× 01	2.44	0.88	1.0.1	0.870		
BATAC	BO, BAAY LAKE	OK O-C M C		03.50						ABANDONED
BATAC	BO. BAAY PAROAY	NW29/324		OC: /#	- 1	200		Sol C		
BATAC	BO. BAAY SOCI	NWS21639	04/10/63	15.72	SO.S.	0.00				
BATAC	BO. BABA	MWS 16244		15.20	2.13	0.42				
ATAC	BO. BALBALAYANG	NW216134		21.50	O. 10	77	4.40	000		
ATAC	BO. BILLOCA	4/8418WN		10.70	2.83	02				
HAIAC	BO. BINAGAN	NWS21671	07/31/67	108.23	3.05	4.42	44.20	001.0		
ATAC	BO BOAY	NWS16241		24.30	4.57	0.32				11.000
ATAC	BO. BOAY	NWS16242		20.40						ABANDONED
ATAC	BO BOAY	NWS21666		73.10	4.57	0.32				
BACAC	BO BUNCON	B1030586	05/08/86	35.10	6.40	0.63	2,40	0.260	ō	
WAT AC	HO BUNGON	NWS.4377		36.50	7.02	0.32				
DATA.	BOCABARIAN	NWS21637	03/01/63	12.50	4.27	60.0	0.12	5.199	6	
DATAC.	CO CANAVAN	NWS-1628		50.20						ABANDONED
ALAC TOTAL	EC CANA YAN	NWS-3713		08.41						ABANDONED
DATAC VATAC	HO CANCELANAN	NWS-3744		18.20						ABANDONED
571.47.	NO COCO PURM SCHOOL	NWS:4372		17,90	4.57	0.32				
MATAC.	HO DANIWOW H EM YOR	NWS14376	-	16.40		0.32				
DATAC	HO H WCUBOL	NWS14370		13.70	3.35	0.32				
HA TAC	BO MAGNUANG	BPW-8689	07/28/55	13.72	190	1.26	1.83	3 0.688	SI.	
BATAC	BO. MAGNUANG PROPER	59671SMN		16.70						
BATAC	BO, NAGBAKALAN	NWS14375		15.20	58.1			_		
SATAC	BG. NAGKUKUKUKAN	NWS14373		13.70						
KATAC	BO. PAYAO	NWS21631	02/15/63	08.30			0.40	2.100	Q	
SATAC	BO, KAYORAY	NWS16243		18,20						
BATAC	BO. SAN JULIAN	NWS21672	197(3),167	97.16	4.57		84.68		ě,	
SATAC	BO. SAN MATEO	8PW17193	03/24/56	15.24		0.63		0.5.0	0	CONTRACTOR OF A
SATAC	BO. SUABIT	NWS-1101		50.20						ABAUNDANGA
BATAC	BO. SUABIT	NWS16245		17.60						
BATAC	BO, SUMADER	SMN	12/16/66	68.98					91	
BATAC	BO. SUMADER	ST9125NN	49//0/104	24.39		0.3×	1,84	707.0		
BATAC	BO. TABLANG	NWS		39.60	1				IKKICATION	
BATAC	BO. TABLANG	SMN	05/25/00	36.5x	4.57		7 35.09		0.4.37 IRKIGATION	
BATAC	BO. TABUG	NWS14338		16.70			0			
BATAC	BO. TABUG SOUTH SCHOOL	NWS14371		16.70						
BATAC	ILOCOS N. INST. OF TECH.	NWS21691	69/61/50	32.01				15.2.57	25	
RATAC	POBLACION	BPW10520	01/28/56	12.19	147	56.0	5 1.22		76.	
BATAC	POBLACION	NW297103	01/16/72	73.17						
BATAC	KUKAL HIGH SCHOOL	NWS-840		16.10						-
BATAC	SITIO ARANOUI	NW216124	05/05/61	24.35					Or	
BATAC	SITIO BALAIGAT BAAY	NWS21641	O4/07/04	28.05	Ì			00.00	000	
BATAC	SITIO BALBALAYANG	NW2161.32	19/20/501	45.15	6.10	44.0	4.40		8	

MUNICIPAL	LOCATION	WELL OF	(1) (1)	V.54 1.11			1		200	
BUKGOS	BO. BARA!	15PW-708B	10/01/54	17.08	50.6	9,44	א.אט)	0.050]		
BURGOS	BO, BARAT ELEM, NCHOOL	81032386	12/51/X6	11.00	4.40	0.64				POTABLE
SURGOS	BO. BORON	81307516		06 01	5,18	0.63		_		
BURGOS	BO DER.AP	BPW10464	03/14/56	9.15	1	0.32	123	0.200		
BURGOS	BO. NAGSUROT	912628MN	17/80/01	16.77	3,05	0.50	10.0	0.820		
UKCOS	(BO, PACCIDPUD	BPW-5570	10/17/52	23.34	50.5	1.38	1.52	050.1		
URCOS	BO. PAYAS	BPW-2162	02/15/62	9.76	5.13	0.63	0.60	0.690		
BUKCOS	BO. PAYAS	1NW216314		10.60	4.83	0.42				
BURGOS	BO. SAOIT	B10,40684	100/14/84	41.50	6.10	0.38				POTABLE
BURGOS	BO. SAOIT	NWS-7093		24.90	3.05	0.63	1970	1.030		
BUKGOS	BO. TANAP	NW216042		12.40	12.9	0,690				
BURGOS	BO. WEST BORON	BP307520		01.6	8	0.6.5		-		
BURCOS	POBLACION	BP307522		02.81	7.93					
CURRIMAO	BO BIMMANGA	NWS-8786		09:01	1.50	0.76	1.22	0.620		
CURRIMAO	BO. BIMMANCA	NWS-8974		10.60	2.44	1.26	0.61	2,070		
CURRIMAO	BO. GAANG	BPW30764		12.80	3.65	0.63				
CURRIMAO	BO, CAANG	NWS-7414		8.80	1.83	0.50	0,61	0.820		1
CURRIMAD	BO CULPENG	TCC307.34		3.25	1.00					
CURRIMAD	BO LANGAYON	B1030285	03/00/85	22.00	1.52	0.76	2,14	0.350		POTABLE
CURRIMAO	BO, LINES	B1032286	12/26/86	6.70	3.00	0.95				
CURKIMAO	BO. LINES	0879-8WN		05.11	3.66	0.32				
CURRIMAO	BO, MAGLASI	1000001		2,00	2.45		1			
CURKIMAO	BO. MAGLAS!	TCC30733	08/18/26	13.72	3.05					
CURKIMAO	BO. PANGIL	NWS-8787		12.10	4,57	0.88	0.30	2.930		
CURRIMAO	BO. PIA SUR	81507618		10.60	<u> </u> 95.1	3.78	116.0	4.150		
CURRIMAO	BO. PIA NUK	BPW12829	01/28/57	11.45	3.90	0.76	1.52	0.500		
CURRIMAG	BO PIAS	1879-8WN		11.20	3.45	0.52				
CUKRIMAO	BO. PIAS SUR	BP297301		12.10	3.05	0.63	0.61	0.0.1		
URKIMAO	BO. SALUGAN	NW297212	12/18/72		3.05			1		
CURRIMAO	BO. TAPAO	NWS-9747		00:14		0.32				
CURKIMAO	BO. TORRE	NW216018	11/18/60	60.0	3.47	0.76	0.31	2.480		
CURRIMAO	BO. VICTORIA	NW216019		6,10	4.57	0.50	0.30	10.63.0		
CURRIMAO	CENTRAL	BPW.30766		10.60	4.27	0.76				
CURRIMAO	MUNICIPALLOT	NW297211	-(01/21/73	11.58	3.04	2.65	16.0	1016.2		
CUKKIMAG	NUKSEKY PIAS SUR	89297313	8752120	12.70	3.05	0.63	2.42	0.260		
CURRIMAO	POBLACION	NWS-7660		21.90		0.32		-		
CURRIMAO	MOBLACION	NWS-9748		12.10	90.	0.32				ABANDONED
CUKKIMAO	POBLACION	4474-8WN		12.10		0.95				
CURKIMAO	PRESS COTTAGE	B1030985	07/16/K5	18.30		-			٠	POTABLE
DINGRAS		C-80	05/26/65	91.62		<b>13</b> .5	29.78			
DINGRAS	BO. ALABAAN	8PW-6293	105/19/54	. 21.95	0.40	0.82	10:0	1.344		
DINGRAS	BO. ASUNCION	BPW-1836		06.09			-			ABANDONED
DINGRAS	BO BAGUT	BPW+7151	09/15/54	7.0.7		1.26	0.30	4.140		
DINGRAS	BO. BALDIAS	BPW-6296	06/27/54	28.05		0.95	0.61			
DINGRAS	BO. BALDIAS	117523WN	12/04/75	17.07	[:55	69:0	0.61	1.030		
DINGRAS	BO. BANGAY	NWS-7663		22.80		0.32				
DINGRAS	BO BANONG	UP307524		9.70		6.63	4.50			
							Ì			

MONICIPAL	COCATION	WELLING	DAIE	DECIN						
DINGKAS	BO. BUNCCAC	BPsu76s4		30.40	7.7	0.95	2.4.5	045.0		
NORAN	BO BUNGCAG	BPW-9484	01/24/56	85.11	2.44	1.14	1.5.1	0.7451		
DINCHAN	BO CAPASAN	B1030786	04/30/86	00'61	3,70	2.80		-		
SOMONIO	HOLLANAS	18P307516		07.6	1.83	0.63				
MACONS MACO AN	HO LANAS	NWS19561	10/15/57	₹×	2.74	0.76	0.92			
SONO DE SE	(RO LINKO)	NWS-7004		22.80	1.83	1.20	0.30	7.200		
OLINGRATO CONTRACTOR	AMMINE OF	HPW-1330		06:09	_					ABANDONED
STATE OF A STATE OF A	NO MACHEOX	181031884	09/25/84	19,80	2.13	0.76	76.0			POTABLE
DINGRAM	BO MACI AYAAN	BP307527		00.01	4.4	0.63	CX.1			-
Section 20	HO DA GONG	BPW20153		7.60	4	0.63	0.61			
DINCKAS	BO TOO DAY	NW216314		23.70	9.10	1.26	0.26	4.800		
CINCINC	NAN CONTRACTOR	NWS21034	03/12/63	23.78	-	-				
DINGKAS	BO. FONOTORINA	NW216221	02/19/62	0.71	2.13	0.63	16.0	0.690		
STATE OF THE PARTY	CO POOL	NW787005	07/31/70	12.21	-					
DINCIPAS	BO NACPATAN	NWS21638	04/15/63	7.31	3.05	0.32	0.31			
DINGRAD	New Control of the Co	NWS-8250		42 30	13.72	0.38	7.60			
DINORAS SISONOS AS	EXPERIMENTAL VIATION	NWS21613	01/31/62	27.94	2.3	£ 79	2.14			
CINCONN	DOONING MICH SCHOOL	NWS21621	01/28/62	13.72	15.7	1.89	0.61			
CONCORN	KLIYO ELEM SCHOOL	32W29753	01/24/75	24.39	4.57	0.63	4.50			
Carlo Pari	HO #1 PORT ACTON	NWS15213	08/20/57	27 44	72.4	0.63	05.0			
TURNING TO	HO #1 PORT ACTON LAND	09\$13MN	W/10/10	28.05	12.20	0.32	5.35	0.060	:	
12.00 (O.L.)	KO #1 KOR GABALDON	BPW-1822		18.20						ABANDONED
EXMINITE	BO #2 WAGNO ST	9554ISMNI	09/24/57	90.49	4.23	0.76	4,75	0.160		
ENPIRITU	BO #2 FOBLACION NORTH	WdS		18.20						ABANDONED
i i i i i i i i i i i i i i i i i i i	BO #1 FOR BIGH SCHOOL	BPW-4651		17.20	_	,				ABANDONED
ENPIRE CO	(BO. #4 POBLACION MARKET	BPW-4594		17.90						
CHRIST	BO. BALIWEG	NWS-7661		32.00	10.7	2.58	5.10			
ESPIRITO	BO. BANGSAK	BPW15206	01/20/57	44.31	15.24	0.03	45.1			
LUZZIONE	BO BINACAG	BPW15204	11/23/56	12.6	2.75	69.0	1.53	L. <b>.</b>		
ENPRINT	BO BUGASI	NWS15211	106/18/57	10.98	1.83	0.63	0.61			
i i i i i i i i i i i i i i i i i i i	RO RUGAVI	NWS15212	07/06/57	7.02	1.22	6.63	0.30	2.100		
C. Colorina	HO BUSTING	13PW13099	101/12/57	15.21		0.63				
Control C	WO Cakaboan	656+(SMN)		6,70	3.05	0.32	0.62	0.520		
ESTIRATE C	CAPACITATION OF THE PROPERTY O	8FW13102	11/00/20	17.99	2.74	0.76	0.0	0:5.5		
Correction	NO. CONTRACTOR	XWX-4562		19.80	3.05	0.03	<u>-</u>	0.410		
L'APINET O	EC CARNERANAN	ZWY-7882		08'61	6.10	56:0	4.52	0.210		
Carrier St.	KO CALINGRAYAN	NWS15210.	06/01/57	0+15	13.72	7	11.00	0.040		
Cartotte	HO CAPAKAYAN	NWS13100	04/04/57	17.68	1.23	0.63	1.54			
LANGER	80 CAR(BOHR	NWS13097	03/08/57	06'81	1.83	0.76	0.0			
Lat matter	RO CASBOLIB	X & S 21.052	\$9/00/60	20.73	10.67	0.42	0.0			
o managa Talangan	(BO Chispino	NWS25722	106/06/72	28.96	12.20	C 48	3.80			
Carialio	LOS DA DA MAIL A	13012MX		56.15	5.79	0.32	4.0	050.0		
ESPINITO	DO DANGESTAN	14 W. 6294	05/31/54	25.30	6.40	1.07	0.50			
ZZITKA: C	SOCIONAL PROPERTY	SP247418		35.83	12,80	10	0.4.0	0.0.00		
ESPIKITU	OC. CABALLOCA	KIO CAMP	12730/86	3.43	7.30	0.63	6.0			
SENTING	DO MALLON	NWS19563	12/8/57	14.21	4.88	0.57	3.0			
P-SYIKI C	C. 1721 Cal	NWS:5207	103/10/57	42.68	10.67	40	14.07	0.030		
ENFIREDO		300512WM		20.70	4.57	0.57	6.3	3.0.00	1	
	20 00 00 00 00 00 00 00 00 00 00 00 00 0	70CY:722		- 20.70	(C.4	/6.0	6.9	くらう	=	

MUNICIPAL	NOT WATER	UN-1777 L	DAIE	47.777	1		*****			
SPIRITU	BU, NAGPALAYAN	8606 FMAR	01/16/57	10.19	7.44	0.57	05.1	0.380	4	
ESPIRITU	BO QUIAOFI	B1031584	04/14/40	15.20	4.57	0.63			4	POTABLE
ESPIKITU	(BO SINAMAR ELEM. SCH.	181030686	05/02/86	9.20	5.50	0.63				
ESPIKITU	BO STO NINO	79561 SMN	11/15/57	15.24	2.13	0.63	0.61	1.030		
SPIRITU	BO. SUMLAAT NORTHEAST	NWS15208	104/17/57	36.28	11.28	15.0	14,25	0.040		
ESPIRITU	BO. SUMEAAT SOUTHWEST	WS15209	105/04/57	22.80	1.9.7	0.63	[12.1	0.520		
ESPIRITU	BO, TEPANG	NWS14938		10.00	4.57	0.32	00	10201		
ESPIKITU	V-BUTEP FARM	100787WN	04/05/70	54.39		0.95	3.17	0.500		
KATIPUNAN	BO MATAW	NWS16075		8.44	8.20					
CAOAGCITY	61# OA	BPW:40762		02.811		0.32	7			
LAGAGCITY	BO #2	SSTIISMN	1	52.40		0.32				
LAOAGCITY	BO. #47	NWS11354		06.09		0.32				•
AOAG CITY	BO. #51, NANGALISAN	NWS11350	02/26/57	22.80		97.6	7.44	3,880		
LAGAGCITY	BO APAYA	BPW-7405	11/04/54	11.28		1.58	1970	2.590		
AOAGCITY	BO APAYA	NW216031	06/0/960	16.77	4.57	0.63	0.61	1.630		
AOAG CITY	BO. BACSIL	BPW-8395		92.00					`	ABANDONED
CAOAGCITY	BO. BACSIL	BPW-8913	95/20/10	(4.29)	10.09	0.32	2.13	0.150		
AOAGCITY	BO, BALACAD	NWS-7415		08'61	1,00	0.63				
CADAG CITY	BO. BALATANG	BPW-8652	06/11/55	15,34	4.27	1.14	14.0	1.250		
CAOAGCATY	BO BANIT	BPW1351		13.10	J			i -	`	ABANDONED
AOAG CITY	BO, BARBAK	NWS14923	05/24/57	37.6	2.13	0.32	0.32	1.007		
AOAG CITY	BO BELEN-PANDAN-VIRA	NW216035	09/51/11	19.82		0.63	2,42	0.260		
CAOAG CITY	80 BINGCAG	5158-Md8	06/10/26	12.81		1.14	78°O	1.865		
LAOAGCITY	BO. BINGCAG	NWS-8654		14.40	×1.8	1.13	0.61	1.850		
LAGAGCETY	BO BUITONG	BPW-5496	07/27/52	28.05		1.26	1.52	0.830		
AOAG CITY	(BO. BUTTONG	BPW-9769	12/30/55	10.97		0.88	0.61	1,450)		
LAONG CITY	BO. CABUNGAAN	BPW-8914	99/12/55	12.20		1,14	0.61	1.870!		
AOAG CITY	BO. CALAYAB	BPW-7087	09/17/54	25.61		0.63	6.30	0.100		
LADAGCITY	BO, CAMANG-GAAN	NWS20152		19.80	3.05	0.32				
AOAG CITY	BO. CASILI	BPW-9768	01/08/56	151.6		9,46	05.0	1.550]		
LAOAGCITY	BO. CATABAN	NW216313	05/17/63	01.0		0.63	0.30	2.100		
LAGAGICITY	BO. CAVIT	BP297321		14,30		0.50	TS-1			
LAOAGCITY	BO. CAVIT	8P307531		05.40		0,45				
JAOAG CITY	BO.CAVIT	NWS-8396		15.80	90%	0.95	19.0	1.560		
LAOAGCITY	BO DAKAYDAY	\$168-W481	04/01/58	8,23		1.26	0.61	2.072		
LAOAGCITY	(80. DIBBUA	BPW-7153	10/20/54	13.58	ŀ	1.89	0.61	3.100]		
LAGAGCITY	BO, DIBILA	(BP307542		15.20	4.88	0.95			-	
LACAGCITY	BO. GABU NORTE	BPW-7152	10/02/54	5.79		1.58	0.61	2.590	-	
LAONGCITY	BO. GABU NORTE	NW216135	09/22/61	10.98		96.0	0.01			
CAOAGGIFY	BO. CABU NORTE	NW297319	05/26/73	9.10		0.76	0.30			
CACAGCITY	BO. GABU SUR	B2W-8252	104/22/55	7.77	1.22	0.94	0.61	1.550		
LAOAG CITY	BO. LA PAZ	B1051085	10/17/85	04.45		-				POTABLE
CAOAGCITY	BO. LA PAZ	(BPW-6297	+5/L1/L0	07 1		0.63	15.75	0.040]		
LAOAG CITY	80.LA PAZ	NWS14926	· (09/04/57	12.20	5.49	058	1.22	0.310		
AOAGCITY	BO LAGUI-SAIL	NWS29721	27770750	19.82		0.75	0.90			
AOAGCITY	BO. MADILADIG	NWS14925	05/25/57	8.23	4.57	0.32	0.30	1,070	-	
LAOAG CITY	BO. MANGATO	NWS30753	St./\$5/10	10.37	2.74	0.63	7	1		
2000	DON CANCELACIT	*>607 (A)(0.4)	1051003775	112	70.7	147 ()	050	1000		

								17741		
MUNICIPAL	NA SECOND	デザイベス 3 Z	08/12/58	[4.4]	75.4	0.03	16.0	:		
LAUAGCILY	BO. MARKANA	BPW-9771	01/00/50	10.98	4.57	0.70	05.0	2.530		
AOAGCITY	BC. NACIO	0776-WAR	12/27/55	10.97						
AOAG CITY	BO. NANCALISAN	8 PW 11363	55/57/50	2, 22	0.0	9,46	8.50	1.720		
LACACCITY	BU. NANCALISAN	VWC-4770		34.01	3.46	0.63	0.30			
LADAGCITY	BO, NANGALINAN	C 16 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	023545x	19 67	2.13	0.30	0.92			
OACCITY	BO NAVOTAS	Total Charles	04/20/47	15.65	7.32	0.32	1.23			
LADAGCITY	BO NORTH DIBUA	Parks Card	55/05/61	12.19	3	0.95	0.31			
LADAGCITY	BO FILA	Citi-Mad	03714760	17.07	0 0	0.53	190			
LADACCITY	BO. KAKABUKAN	12 M W. 12 M W. 1	00/17/57	15.74	6.10	88	4x.1			
<b>NOAGCITY</b>	BO. KIOENG	76441 MJQ	200000	41.41	105	0.75	0.61	L		
VOAGCITY	BO. KIOENG	NW521491	00,000,00	20.00	COV.	5 3	2.5.2	2.670		
VOAG CITY	(BO. SAN JOSE	NWS11352	1,525/30	4:10		20.0	190			
AOAG CITY	BO. SAN MATEO	BPW-6298	4577710	20.35	25	100	(20)			
AOAGCITY	BO. SAN MATIAS	BPW	107/17/86	74.60	200	20.00				
NOAGCITY	BO. STA. GUAKIN	BF307629		12.10	1	CX:0		1,367		
LAGACCITY	BO.STA. MAKIA	305C-WHH	17/18/54	23.17	4	0/0	10.01			CANOCINERA
ACACTORY	BO. TALINGAAN	1924-W48		12.80		-				2000
NOAC MIN	HO TALINGAAN	BPW-9767	01/01/56	12.80	5.49	0.95	0.30			
MONOCIT I	SO TO INCAME	VWS-8397		08.21	98 *	0.95	0.30			
ACAC CITY	CONT. OF	8 7 1 8 8	05/24/55	15.85	01.9	1.01	16.0	:		
ACACCII I	AND ON	NW216033	09/11/60	30,49	12.20	0.63	0.32			
ACACCITY	BO VIVA FACT	NW216034	10/21/60	18.29		0.63	0.61	0.00		
AOACCI I	DOC VIEW COOK	SPW 50708		18.20					7	ABANDONED
AOACCITY	ON CONTRACTOR	NW216032	107/11/60	12.80		0.63	190	1.030		
ADACCITY	BOLZOWN BOWN ON	R 9 40 7 41	-	06'01				_		
AOAGCITY	Brw COmpound	ACCOCOCO.	07/30/73	40.05	45,04					
AUACCITY	CALCINGTON	Claicywa	102/22/61	25.86		3.16	EF 11	3 0.279		
AOAGCITY	EKMITA UST.	3.0120.01H	05/07/26	33.50	ŀ		2.40	0.260		
AOAG CITY	ILX.ANU REKU	20000010	000000	0x 22						
AOAGCITY	LAOAG FIKE DEPAKIMEN	N W327/20	SAMOOT A	01.44	١	29 67	0.30	0 41.380		
ADAG CITY	LAOAG SUPEKMAKET	NW329121	77/01/60	20.0	l		7			
JOAG CITY	MARCOS STADIUM	y MAR	2072070	19.90				١		ABANDONED
LADAGCINY	NLTC	67/67SMN	7/77/7	10,45	۱	-	2			
AOAGCITY	NORTHERN DOCTOR'S HOSP.	NWS29723	106/15/7	10.64		01.0	4.57	0.070		
LAGAGCITY	POBLACIÓN	NWS11345	(02/09/57	219.55	CO.	0.50				ABANDONED
CADAGCITY	POBLACION 13	124.		06.62				-		ABANDONED
AOAG CITY	POBLACION 23	BPW-1:75		00.86						AKANDONED
LAOAGCITY	POBLACION 28 AND 29	BPW-116.3		07.00		- 136		-		
AUAGGITY	PROV. JAIL	B1031786	11/03/86	Je Or	0	2		1		
-AOAGCINY	PROVINCIAL HOSPITAL	NWN21693	12/27/69	33.54				702.0		
MARCOS	BO. CAPAKIAAN ELEM. SCH.	8PW29756	0.5/07/75	21.40		0.03	2.10			
MARCOS	BO. DAQUICAY	C1520288		21.30	3	05.0	70.			
MARCON	BO. ESCODA	89307515		9.10		0.03	30.5	0170		1 101 4 11 22 2
MARCON	BO LYDIA	81031984	10/13/81	47.00		2.20				YO! ABLE
MANCON	BO VALDEZ	B1031586	08/22/86	18.30						
MANCOS	MARCOS STADIUM	NW287101	17/01/50	42.68						
NICKA DEA	BO PAGPAGONG	B10.40885	98/87/190	21.30		56.0				
NOCY CDA	HORI ACION	81031086	98/60/11	23.00			1.50			CLEAK
									ĺ	ĺ

MONICIPAL	LUCATION	WELL	DA I.F.	JEL I A		-4				
PAGUDPUD	BO.#1	040/*SMN		17.00	2,44	1.0.0	16.0	0.540		
PAGUDPUD	BO, AC-GASI	8P20741.5		05.15	6.71	0.63	16.0	0.690		
PAGUDPUD	SO BOLAN SCHOOL	NWS14948	15/02/00	XY	1.22	0.32	6.30	0.100	-	
PACIFICACIO	BO BURAVOS	NWS14950		22.80	61.5	0.32	16.0	0.350		
PACTURE IN	BO BURAYOK	B1032685	021287	100:11	00%	0.65			)	CLEAK
PACIFICATION OF THE PACIFI	RO CALINAYAN	WAR	37/4/75	14.0.1	2.13	050	0.50	1,000		
PACHOPUD	CXXXII CX	NW216211	02/19/62	8.84	1.83	25.0	0.61	0.620		
PACCODED	LEG LEINONG	1867 I NWN	06/22/57	72.81	17:7	0.38	1.52	0.250		
VACABINETIN	KO PASALENC	2424 NWN	15/10/15/	7.62	2.80	0.38	0.30	1.270		
A CALINATIVE	BO SHREC	(B1032184	10/08/84	15.20	5.49	0.03	1970	040.1		
PAGUIPUID	BO. NURIC		01/26/62	9,45	4.27	0.38	3.80	0.100		
ONCH CONTRACTOR	PON ACION #2		27/20/10	02.21	EX.43	0.44	1.22	0.360	S==	
A GUNAUD	VINE IN PLAZA	WWS-7089		100.81	3.05	0.63	(6.0	0.690		
20.5200			101/11/54	22.86	3.05	1.26	0.50	2.520		
MON I	10 4 00	1	10/22/60	11.281	1.52	0.63	0.50	1.260		
NOW!	17 00	ŀ		09 01	-				*	ABANDONED
PACAT	7 v 13 1 v 5 (3 v 5 v 5 v 5 v 5 v 5 v 5 v 5 v 5 v 5 v	CONTRACTOR	01/31/61	4.76	2,74	0.63	05.0	1.260		
racat	DO THE BANKADATA	\$000 CMN	(34/01/64)	10.37	17.	0.6.1	05.0			
PACAT	DOC STOLEN	\$10310x4	J×/4/ /(x/)	00.19						POTABLE
CACAL	BOLDANIA CITI A MAN	Max		04.81	2.59	0.32				
FACAT	DO CARANCADAN	- CC (91CAX)		01.6	8.74					
TACAT	an Character	KPW		36.50	4.57	0.32		-		
NOV.	Notice And Co.	NW216029	12/08/60	8.2.8	4	2.74	0.13	9.130		
PACA 1	ISO CALL ACTION	HPW-9744		14.60	3.66	0.32			-	
7474	BO CASSADAN	H-W-705X		55.40	02,41	0.44	14,60	0.030		
PACAT	BO MARINTOC	BPW-8254		00:00	2.74	3.	0:30			
YAOAY	BO. NAGBACALAN	B1032686	18/01/20	081		69:0				
PAGAY	BO NACBACALAN	BP216512		24.00	12.70	69.0	0.30	2.100		
PACIAY	RO NACBACALAN #22	BPW-5993	45/57/50	101.10	14.02	190	1.85	া ত		
PACIAY	BO NALASIN	BPW10522		01.6	2,44	0.95				
X 47.744	RO MIZME AAN	RPW29754	62/28/75	19,61	4.57	-				
PACIAN	GO PASII	BPW-9745		07.07	-					ABANDONED
PACNAV	BO PASIL	108/7MV	02/29/60	25.00	11.28	0.50	6.25			
PACAY	BO SALBANG	89307636		9.70	1.83	0.63	1,21	0.520		
PACAY	BO NALBANG	BPW-9746		12.10	3.05	56.0				
PAOAY	BO. SAN BLAS	87216030		o/.v	2,74	0.63				
PACAY	BO. SAN ROOUE	18P216027	-	09'01	1.52	0.63				
PAGAY	BO. SUBA	BPW-8403		82.20		Ī			,	ABANDONED
PADAY	BO. SUBA	SW215912	01/22/60	96.59	12.20	0.32	10.67	0.300		
PADAY	BO. SUEA SOUTH	BPW23044		28.90		-				
PAOAY	BO. SUNGADAN	81030986	05/27/86	00.35					_	
PACAY	BO. SUKCUI	BP216028		10,60		0.50	0.30			
PACAY	BO. SURCUI	BPW-7659		25.20	3.05	0.76	0.61	1.250		
PACAY	MAKKET SITE	BPW-9743		17.30	2.13	96:0	00			
PASUQUIN		C-81	12/31/65	123.48	3.114	2.08	14.21	1.146	,	ттам 890
PASUCUIN	3KD SITE KADAK	NWS21602		01.65		1			-	ABANDONED
PASUCUIN	BO. BUCAL	BP307511		08'61	1.52	25°0				
		Charles Court	CANCOURT	16.	3177	J77 (/	90	17.4.77		

MUNICIPAL	LOCATION	WELL	DAIE	111		WILL STREET	Dec mon		
PASUOUN	BO, CALULUSIAN	NWS14947	103/30/57	12.20	0.10	1.8,5	0.50	3 6	
NIOOUN	BO. CARUSIPAN	81031886	11/26/86	11.00	4.60	0.63			POI AISLE
PASUOUIN	BO. CAKUSIPAN	NWS 4945	03/09/57	10.67	4.57	048	0.30	1.276	
PASUOUIN	BO, DARUPIDIP	NW307525		00.98	5.79	0.95			
PASUOUIN	BO. DAVILA	NW215911	65/11/21	16.01	2.44	0.63	0.61	1.030	
NEASUOUIN	BO. DAVILA	NW307518		08:51	3.35	0.32			
NICOON	BO. DILANO	NWS14941	09/04/57	12.20	5.49	0.38	1,8,1	0.210	
PASUGUIN	BO. ESTANCIA	NWS14046	0.926/57	9.76	6.71	0.32	16.0		
PASUOUIN	BO NALVO	81030884	07/16/84	73.20	2.13	0.32			POTABLE
PASUOUIN	BO NATBACAN	NWS14943	04/24/57	0.71	3.66	0.38	0.61		
PASCOUR	BO. NGABANGAB	NWX 7094		05.30	3.05	0.76	1.81	0.420	
PASHOUIN	BO PRAGATA	81030386	03/20/86	6.20	1.50	0.63			POTABLE
PASUOUIN	BO PUYOPUYAN	ANS. LAUGA	04/01/57	6.40	3.66	0.38	19:0	0.620	
PASCIOUIN	PHIL ARMY	NWS21611	01/20/61	22.86	3.05	1.58	10,53		
PASCOURA	KADAKSIN.	NWS19531	10/20/59	±4.772	6.10	0.32	80.00		
NANIOUN	KADAK STN.	NWS21591	03/04/60	17.74	12.20	1.26	42.00	0.030	
PANUOUIN	RADAR STN.	NWS21601	04730760	59.45	3.661				ABANDONED
PANCOUIN	KADAK STA.	NWS21603	09/12/00	94.51	01.0	-	:		ABANDONED
NANIOUNA	IKADAK STN.	NWX21604	07/31/60	79.27	1.52	56.0	47.50		
PANIOUIN	XADAK STN	NWS21605	09/30/60	53.35	1.52	0.05	47.5(		
A: 101 Sec.	NEW CONTRACTOR	9091CSM/N		22.80	3.05	1.58	7.5		
Participal Communication of the Communication of th	HO # 1 AINC	13PW13094		13,61	2,13	0.63	0.0	060:	
SE STATE	OLVA 9# OR	\$000 XXX	04/01/57	15.85	5.79	0.63	₹°0		
SKINIS	RO ARICAV	BP297320		12.10	3.66	0.76	05.0		
CK101	HO ARICAY	BPW-8249	05/02/55	10.98	1.52	1.20	6.3		
ONNIA	HO BANAN	1005 ISMN	03/28/56	16.77	7.32	0.69	0.30		
ON SHEET	40 CALCISA	NW216131	(02/02/6)	13,72	5.18	0.63	05.4	0.140	
S. C. C.	2004C 04	NWNIAUM	08/12/57	13.11	6.10	0.38	1.52		
Significant	CO. CALUSA	TO TO TO THE TOTAL OF THE TOTAL		0016	1.06	050	90		
Pibbic	BO. ESTANCIA	BF307030	17771377	30.12	0	200	0		
SHIDDIC	BO CAYAMAL	26.1012W.N	V27.0401	0, 0,	5 6	200	5		
Piddic	BO, LAGANDIT	BP307545		2/1	12,20	0.50			
PiDDIC	BO. LIBMACAN	8P307521		35.00	10.70	0.03	3.00		
Picor	BO. PACOCO	NWS14933	08/19/57	16.16	3.×	25.0	3.40	0.1.50	
Piddia	BO. STA. MARIA	NW216133	03/27/61	10.37	7.62	10			
Probic	BO SUKSUKEN	NWS14932	U8/02/57	15.85	7.62	0.32	दुई'।		
PIDDIG	BO, TANGANAN	NWS13096	03/30/57	26.83	4.57	0.38	9.50	0.0.0	
PiDDiG	BO. TONOTON	0009-MAR	108731754	48.29	3.66	0.70	0.30	_	
PiDDIC	BO, VIRSUSA	BP30751.3		67.6	0.61	0.63}	0.30		
Pibbic	POBLACION	EPW-6299	15/60/80	45.73	16.77	10'1	0.30		
PHYSIC	SCHOOL SITE	BPW-5545	25/50/60	18.13	9.15	68.1	6.0		
2 2 2 3 3		B3073-13	97.00VX0	39.63	3.05	5.78	5.6.5		
- N.Z.	BO APATUTLUBONG	3073-31		5.73	1.08				
- 1.2.2.	SO APATUI-LUBONG	B#216013	09/1150	20'71	3.00	0.0	4.85	5 0.130	
	SO APATUL-LUBONG	8. (0; W30)		5.73	1.93				
T. I.	OR A COL	HP128241	04/29/35	19.82		0.76	3,	0.490	
Tivin.	SO SABOO	(23012) (23012)	\$8/10/0	02.51		0.76	!		
HINE	ac. Barracia	NO.		15.20	7.57	0			
PINILI	BO. BAKBUN	14 45 1100	ANGOOD A	07.50	ļ	7.4	05		DONE A BUT.
		1200.000	WAY (171)			:	•		

SCONCINAL.	(C) (V) (C)	ON THE		- 27.77	130	こうこうこう		·		
HNIC	BO. BUNGRO	967178M.V.	V24/59	24,40		0.52	05.0	0,040		
PINILI	BO CABARDAN	8P307511		\$7.90	7.62	0.32				
MILL	BO CABAUSAN	83073-12		2X.V	\$6.8	-				
FINIL	BO CABAUSAN	83072-12		6.25	3,65					
NICE TO SERVICE	BO. CAPANDANAN	1073-17		4.75	2.95					
HINIT	BO CAPANDANAN	3173-21		6.45	3.25	-				
ZINIT	BO. CAPANDANAN	3073-14		6.85	4,45					
PINILI	BO. CAPANDANAN	BPW12824	01/19/57	00.*1	3.05	0.76	15.1	0000		
PINIC	BO. CAPANDANAN WEST	(&PW12825	01/23/57	18.30	4.57	0.63	<u>x</u>			
אואור	BO. DALAYAP	NWS29726	27/91/80	32.01		0.76	4.47			
FINE	BO. DARKAT	3073-19		6.55		•				
PINIC	BO, DARRAT	BPW14158	02/23/S7	17.68	7.62	0.76	4.44	0.170		
FINIT	IBO DARKAT	NWS10521				<u>-</u> -		<u>-</u> -		ABANDONED
PINIL	BO. GULPENG	B307.5-11		\$8.4	2.40	-				
DINIC.	BO NATRIGOAN	BP216012	09/17/60	16,77		717.0	2.75	0.160		
PINIC	BO, NO. 5 POKLACION	8P307517		05.74	7.62	0.95				
PINIL	BO, OPON	NW216123	03/24/61	20.43		85.0	85,4	0.083		
PINIC	BO: PACIDITAO	89307526		19.20		0.95				
FINIT	BO, PAGDILAO	BPW11173	05/31/56	35.06		69.0	2.16			
FINIT	BO. PAGDILAO NORTH WESTERN	BPW1176	06/22/56	30.49		0.32	10.67	0.030		
PINIL	BO. PUGADAN	BP216016	03/24/60	23.78		0.63	0.17			
PINIC	BO. PUCADAN	BPW11170	04/25/50	27.44		0.76	0.00			
PINILI	RO.PUZOL	**************************************	C4/03/54	54.5K		0.38	27.00			
HINIT	BO. SALANAP	SPW-6035	03/13/54	53.96		0.63	3.71	0.170		
ENE	BO. SALANAP	[BPW11172	05/21/56	28.96	6.10	0.32				
PINIU	BO. SALANAP SUR	NWS11167		92.00		_				IABANDONED
HINIT	BO. STO. TOMAS	(NW216017	11/02/60	20.43		0.32[	5.55			
TINIA	BO. STO. TOMAS	NW 297302	02/28/73	12.81	1.52	0.32	0.31	1.036		
LINIT	BO, STO, TOMAS SOUTH	NWS29733	57,917.5	13.72						
INITI	BO. TAKTAKABANG	B1030485	\$8701720	21.30	457	0.76				
PINIC	BO. TAKTARABANG	BP216015	09/05/40	17,68		0.50	.53	0.330		
TINIT	BO. VALBUENA	88297209		06.94	67'5	0.32				
TINE	BO. VALBUENA	BPW11174	95/10/90	28.96		0.63	10.50		٠	
PINIL	VALBUENA SOUTHWESTERN	BPW11175	06/14/56	67:08		0,63	7,88	0.080	-	
INIC	DON MARIANO MARCOS SCH.	BP297316	62/60/50	2X.96	8.23	TE 0	4,50			
FINIT	MARKET SITE	NWS-9752		42.60		0.32	1.23	0.260		
PINILI	POBLACION	[3173-24		9.75		_				
PINIT	POBLACION	BP307576	05/31/50	14,70	11.28	60.0	2.17			
HIST	POBLACION	BPW-5398	05/24/52	111.86		1.26	151	0.820		
ZINIC	PUBLIC MARKET	BP216014	09/17/00	42.08	16.76	CF 0	51.51		:	
SAN NICOLAS	BO #1 POBLACION	BPW-9486		06.01						ABANDONED
SAN NICOLAS	BO. #10 POBLACIÓN	[NWS20151		23.10		0.32				
NAN NICOLAS	BO. #13. POBLACION	NWS20150		05.61		0.32				
SAN NICOLAS	4(* 0)	NWS16250		20.70	٠.	0.32				
SAN NICOLAS	BO.#2	BP3070548		14.60	4.57	1.26				
VAN NICOLAS	BO.#2 POBLACION	NWS21482	0w26/58	24.09		0.63	3.3.	061.0		
SANNICOLAS	BO. #20 SAN PABLO WEST	NW297323	57/81/80	3.77						
				01 61						

MINICIPAL	100 VO	WELL NO	3140							
NAN NICOLAS	BC #4, YOBLACION	798618WN)	8410140	17.59	60.0	o.so	13.1	0.414		
SAN NICOLAS	BO. #6, POBLACION	NWS21483	09/12/00	01.71	6.10	0.51	0.61	0,830		
SAN NICOLAS	190, #7	BPW-5923	12/09/53	19:57	5.48	1.89				
NAN NICOLAS	BO.#K	BP297317		40.26		-			de.	abandoned
SAN NICOLAS	BO. #8-9	BPW-9485	11/19/55	12.19	2.74	0.76	1.22	0.620		
AN NICOLAS	BO. #9 POBLACION	NWS16245		13.70	3.05	0.32				
SAN NICOLAS	BO. ASUNCION	BP307523		29.20	07.11	0.63				
SAN NICOLAS	BO BINGAO	NWS16247		20.10	6.10	0.32			Υ.	ABANDONED
NAN NICOLAS	BO. BINGAO HIGH SCHOOL	58/05018)	U7/12/K5	49.00					Ŧ	POTABLE
SAN NICOLAS	BO BUGNAY	BP297328		17.60	1.83	2.27	1.83			
AN NICOLAS	BO, BUGNAY SCHOOL SITE	[84128WN]	07/25/58	25.91	6.10	0.32	10.67	0.030		
SAN NICOLAS	BO. CATAGUING	BPW-8789	09/13/55	18.29	0.51	0.76	19:0			
SAN NICOLAS	(BO. LUSONG	BP307530		01.6	2.13	0.95	0.30			
NAN NICOLAS	BO. MALINGEB	B1030486	04/04/85	80.51	00.1v	01	0.30		P(	POTABLE
NAN NICOLAS	BO. MENDORO	BPW-9480	91/25/56	16.29	4.57	156'0	2.42	0.390		
AN NICOLAS	BO NACKIBACAN	NWS-8788		17.30	1.83	1.13	1.22	0.930		
NAN MICOLAS	BO. PAYAS	8PW-9481	11/18/55	17.80	3.05	0.57	06.0	0.630		
NAN MICCIAN	BO SAMAC	NWS16248		32.50					ac	abandoned
NAN MICOLAS	BO SAN ANTONIC	18PW-7097	97/31/54	14.02	3.1	0.95	2.14	6443		
NAN NICOLAS	ISO SAN ISIDRO	BP307534		05.11	3.95	190				
CAN NICOLAS	BO. NAN LOKENZO	BPW-5727	12/08/53	24.39	2.13	1.58	0.31	5.170		
NAN MICOLAS	BO. SAN MARCOS	B1032086	12/07/86	08.X1	3.70	_		-		
AN O'COLAN	BO SAN PABLO	NWS19568	06/19/58	47.26	10.67	0.52	16.00	0.0201		
NAN NICOLAS	BO SAN PEDRO	810,40585	04/20/85	08.84		0.69				
AN MICOLAS	CENTRO	974-W-WIN	11/29/55	12.20	3.56	O.NS	0.50	2.930		
SAN NICOLAS	HILL TOP HOTEL	NWS28702	05/24/70	56.40						
SAN NICOLAS	STRIO LANAS SCHOOL SITE	NW\$19565	02/26/5X	68.11	3.05	×5.0	0.61	179'0		
SAN NICOLAS	SITIOTAGUIPURO	NWS19566	02/15/58	14,32	2.74	0.57	0.61			
SAKKAT	BALMACEDAS FARM	NW217005	17/81/20	78.42	4.57	1.20			1	
ARRAT	(BO #3	BPW-9483	11/30/55	10.67	3.05	0.57	0.92	0.621		
CAUDAN.	H() #4	(BPW-5523	108/14/52	13.15	3.05	1.58	1.52	0001		
SARRAT	BO BINARATAN	8PW-9478	12/07/57	9.15		0.03	16.0			
SAUDAT	BO CARITACKIAN	BPW14930	55/20/20	67.81	8× 7	0.53	2.13	0.1.0	-	
SARKAT	BO. GABON	NWS-8251		14.60		1.26	0,61	L		
SAKKAT	BO. PALAD	18PW,40761		15.20	17.0	0.76	00			
SARRAT	BO. PANDAN	BP307612		00.79	6.71	0.63	6.0	÷		
SARKAT	BO PANIK	NWS-7866		96.90	1	0.32	3.20		-	
SAKKAI	BO. PARANG	BPW3076.5		13.70	6.71	0,63	0.30			
SAKKAT	BO. SAN ANTONIO	NWS21035	04/20/63	50.49		0.63	1.5		-	
SARKAT	BO. SAN ISIDKO	Wds	12/27/86	04.75		7.90	1.50		<u> </u>	POTABLE
SAKKAT	BO, SAN LOKENZO	NW216020	19/01/20	19.82	797	0.63	3.04	0.207	-	
SAKKAT	BO. SAN NICOLAS	186718AN	08/14/57	17.58	88'1	0.32	4.92		:	
SARRAT	BO. SAN ROQUE	81030885	06/10/85	18.30	00%	69.0	00.1	0.690		
SARKAT	BO. SORIAB	NWS14929	107/118/57	16,46		0.52	8.00	0.040		
SARKA	BO. STA. KOSA	MWS-XW4		28.00		JF 0				
SAKKAT	BO. TABUNAY	NWS14927	0×/02/57	20:73	6.71	85.0	6.1			
SAKKAT	BO, TAGPAO	NWS14928	08/04/57	15.61	56.8		8.00			

SIGNICIPAL	LOCATION	OK_LLWO	DATE	BLAGG	O TWS	DISCHOE	DKAWDWN	SPCCP	USAGE	KEMAKKS
SOLSONA	BO. BAGBAG	18P307632		10.50	वर ।	CA'O				
SOLSONA	BO. BARCELONA	BP307529		10.50	1.52	6.0.4				
SOLSONA	BO. CENTRAL ELEM, SCHOOL	82307535		12.10	1.83	0.95				
SOLSONA	BO, DARASDAS	NW216231		7.30	1.83	0.63	19:0	1.030		
SOLSONA	BO. 1ALUGIOG	04270548		01.4	1.22	0.63				
SOLSONA	BO. TALUGIOG	NW216145	101/21/62	51.0	1.52	0.63	0.61	0.60		
SOLSONA	BO-TALUGTOG	NWS-7665		12.10	77.7	0.42		_		
SOLSONA	POBLACION	BP292710		10.00	2.74	0.32				
VINTAK	BO. #4 STA. MAKIA	NWS-7657		33.50	2.13	0.88	1.52	0.580		
VINIAK	BO: #6 LUBONG	NWS21636		24.30	8.54	9 7 7 7	7.33	090:0		
VINTAR	BO. ABKEK	BPW10525	95/13/50	14.33	10.67	0.50	05.0	1.670		
VINIAR	BO. ALEJO MALASI	8103.5086	78/21/Z0	24,40	7.60					POTABLE
VINTAK	BO. BULBULALA	BPW14936	07/14/57	12.80	4.88	0.52	88'1	0.170		
VINTAK	80. ESTER ELEM. SCHOOL	82507610		22.80	9.76	0.6.3		-		
VINTAR	(BO, LUBNAC	81032786	02/10/87	53.40				-		POTABLE
VINTAR	BO CUBONG PARUT	(872)6311		24.40		0.44 0.	1,22	0.560		ABANDONED
VINTAR	BO. LUBONG PUGAPUG PARUT	BP216316	04/20/63	95 XI	0.10	0,444	7.33	0.000		
VINTAR	BO. MAGABOBO	B1030184	06/08/84	12.80	3.66	6.63	19:0	1.030		POTABLE
VINTAR	BO. MAKGAAY	NWS-7096		35.90	4.57	0.76	4,47	0.170		
VINTAR	BO. NANLONOC	B10,402×6	98/10/10	23.00	04.7	1.00	05.0	2.800		POTABLE
VINTAK	BO. NANLONOC	BPW30765		27.40	14.90	0.50	4.54	0.110		
VINTAK	ELEM. SCHOOL	BP307615		14.60	3.05	0.63				
VINIAK	(BO. SALPAD	B1030185		22.00	0.71	0.69				POTABLE
VINTAK	BO. SALPAD	8PW14935	02/25/5K	95.22	26.7	0.32	2.40	0.130		
VINTAR	BO. SALSALAMAGUE	B1030385	05/27/XS	29.00	15.24	0.63	2.05	0.210		
IVINTAR		NWS-2095		29.20	3.05[	0.76	190	053.1		
VINTAR	SAN NICOLAS PUBLIC MARKET	NWS21495		25.90	4.17	0.63	16.0	0.69.0		
VINTAR	MUNICIPAL HALL	BP297329	8222711	28.00	4.57	0.38	05.6	0.040		

DISCHGE = Discharge Rate (l/sec)

NWRB Well inventory
DEPTH = Meters Below Ground Level (m)
DRAWDWN = Drawdown (m)

Source: Notes:

SWL = Static Water Level (m)
SPCCP = Specific Capacity (Vsec/m)

## 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 1995/10:40 a.m.

Data/Time Submitted Source of Sample 30 June 1995/10:45 a.m.

Padsan River Ilocos Norte

Sample Analyzed by

N. Alma Jose, R.M. Xavier, M.B. Pineda

and H. B. Labaro

#### ANALYSIS OF RIVERWATER SAMPLE\*

Color	units	:	5.00
Turbidity	units	;	65.00
Conductivity	us/cm	:	170.00
Я		:	7.50
Alkalinity	mg/L	:	64.00
Total Hardness as CaCO,	mg/L	:	65.00
Ca Hardness as CaCO <sub>1</sub>	mg/L	:	18.40
Mq Hardness as CaCO,	mg/L	;	46.60
Chemical Oxygen Demand (COD)	mg/L	:	184.60
Chloride	mg/L	:	2.70
Sulfate	mg/L	:	21.00
Total Iron	mg/L	:	0.30
Manganese	mg/L	:	0.01
Ammonia-Nitrogen	mg/L	:	0.44

\* Sample received as submitted by client.

Submitted by:

BUHAY S. ASTUDILLO Chief Chemist

Sewage Research and Analysis Section

3212-96

Certified Correct:

CONVERCION M. CHASANGA Division Manager A, Central Laboratory

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 Date/Time Collected

ANTONIO ASTORGA
29 June 1995/10:15 am

Data/Time Submitted

30 June 1995/10:45 am

Vintar, Ilocos Norte

Source of Sample

Bislak River

Sample Analyzed by

N. Alma Jose, R.M. Xavier, M.B. Pineda

and H. B. Labaro

#### ANALYSIS OF RIVERWATER SAMPLE\*

Color	units :	5.00
Turbidity	units :	25.00
Conductivity	us/cm :	230.00
рН	*	8.10
Alkalinity	mg/L :	111.00
Total Hardness as CaCO <sub>1</sub>	mg/L :	96.00
Ca Hardness as CaCO,	mg/L :	26.85
Mg Hardness as CaCO,	mg/L :	69.15
Chemical Oxygen Demand (COD)	mg/L :	223.10
Chloride	mg/L ∶:	2.70
Sulfate	mg/L :	18.00
Manganese	mg/L :	0.01
Total Iron	mg/L :	1.10
Ammonia-Nitrogen	mg/L :	0.52

\* Sample received as submitted by client.

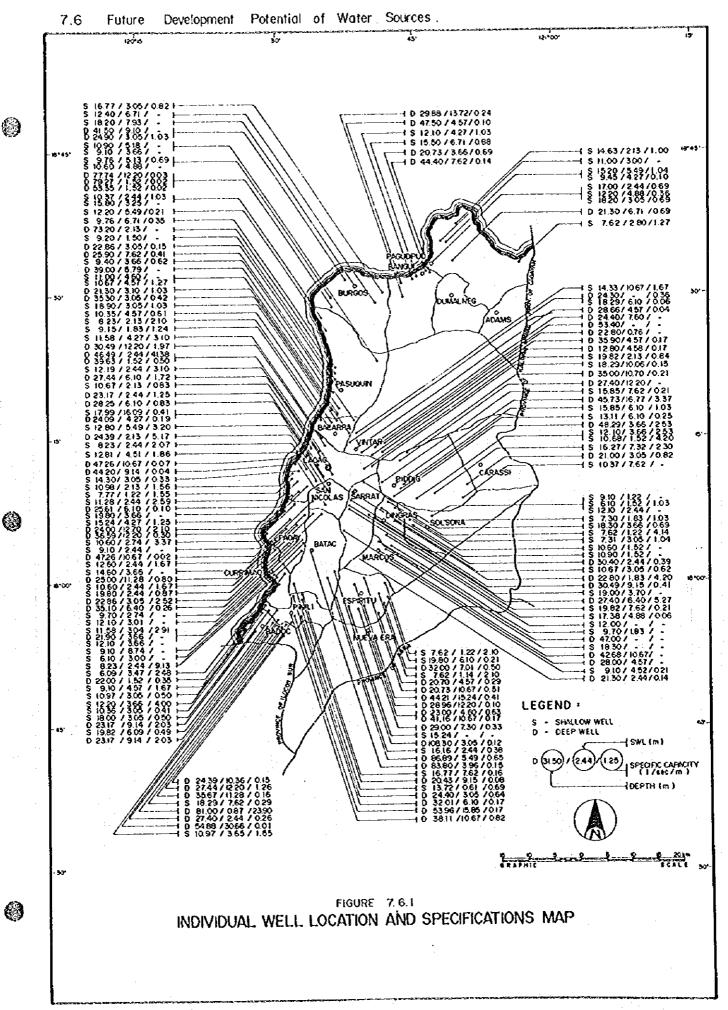
Submitted by:

BUHAY S. ASTUDILLO Chief Chemist

Sewage Research and Analysis Section 3712-96

Certified Correct:

CONTERCION M. JASANGA
Division Manager A, Central Laboratory



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