DOCKET NO.: 951056-WS - [Palm Coast Utility Corporation]

WITNESS: Direct Testimony of Blanca R. Rodriguez, Florida Department of Environmental Protection, Appearing On Behalf of the Florida Public Service Commission

DATE FILED: May 31, 1996

ACK	
AFA	
APP	
CAF	···
CMU	-
CTR	
EAG	The state of the s
LEG	
LIN	5 tog
OPC	Aller Lan
RCH	
SEC	
WAS	Carrier Constitution of the Constitution of th
OTH	THE RELL CO. LANSING MICH.

DOCUMENT NUMBER-DATE
06021 MAY 31 %

FPSC-RECORDS/REPORTING

#### DIRECT TESTIMONY OF BLANCA R. RODRIGUEZ

- 2 | Q. Please state your name and business address.
- 3 A. My name is Blanca Rodriguez and my business address is 7825 Baymeadows
- 4 Way, Suite B-200, Jacksonville, FL, 32257.
- 5 Q. Please state a brief description of your educational background and
- 6 experience.

1

- 7 | A. I am an environmental manager and supervise the Drinking Water Section.
- 8 | I have a Bachelor of Science degree in Chemical Engineering and 20 years
- 9 experience in the engineering field, 12 years of which was an engineer in the
- 10 | Potable Water Section with the Florida Department of Environmental Protection.
- 11 | Q. By whom are you presently employed?
- 12 A. I am employed by the Florida Department of Environmental Protection
- 13 | (FDEP).
- 14 | Q. How long have you been employed with the Department of Environmental
- 15 | Protection and in what capacity?
- 16 A. I have been employed by the FDEP during the last 12 years as an
- 17 engineer. At this time, I am an environmental manager supervising the
- 18 | Drinking Water Section.
- 19 Q. What are your general responsibilities at the Department of
- 20 | Environmental Protection?
- 21 | A. In addition to supervising 11 people in my section, I am responsible for
- 22 the permitting, compliance and enforcement activities for the Public Water
- 23 | Systems in the FDEP's Northeast District.
- 24 | Q. Are you familiar with Palm Coast Utility Corporation's water system in
- 25 | Flagler County?

- 1 | A. Yes.
- 2 | 0. Does the utility have a current construction permit from the Department
- 3 of Environmental Protection?
- 4 A. Yes.
- 5 Q. Please state the issuance date and the expiration date of the
- 6 construction permit.
- 7 A. Permit number WC-18-184431 was issued on December 14, 1990 and expired
- 8 on December 14, 1991. This permit was for construction of water treatment
- 9 plant number two, the membrane softening plant.
- 10 Q. Is the plant in compliance with its permit?
- 11 | A. Yes.
- 12 | Q. Are the utility's treatment facilities and distribution system
- 13 | sufficient to serve its present customers?
- 14 A. Yes.
- 15 0. Does the utility maintain the required 20 psi minimum pressure
- 16 throughout the distribution system?
- 17 A. Yes. The pressure during the last sanitary survey on June 17, 1994 was
- 18 65 psig. A copy of this survey is provided in Exhibit BRR-1.
- 19 Q. Does the utility have an adequate auxiliary power source in the event
- 20 of a power outage?
- 21 A. Yes. Auxiliary power is available to operate the complete plant.
- 22 Q. Are the utility's water wells located in compliance with Rule
- 23 | 62-555.312, Florida Administrative Code?
- 24 | A. Yes.
- 25 Q. Does the utility have certified operators as required by Rule 61E12-41,

- 1 | Florida Administrative Code?
- 2 A. Yes.
- 3 Q. Has the utility established a cross-connection control program in
- 4 | accordance with Rule 62-555.360, Florida Administrative Code?
- 5 A. Yes.
- 6 Q. Is the overall maintenance of the treatment plant and distribution
- 7 | facilities satisfactory?
- 8 A. Yes. No deficiencies were noted during the last sanitary survey.
- 9 Q. Does the water produced by the utility meet the State and Federal
- 10 | maximum contaminant levels for primary and secondary water quality standards?
- 11 A. Yes. The water quality meets the standards set forth in Chapter 62-550,
- 12 | Florida Administrative Code.
- 13 | Q. Does the utility monitor the organic contaminants listed in Rule
- 14 | 62-550.410, Florida Administrative Code?
- 15 A. Yes. The last analysis was performed on November 9, 1993 and all of the
- 16 | chemical parameters were below detectable level (BDL).
- 17 | Q. Do recent chemical analyses of raw and finished water, when compared to
- 18 regulations, suggest the need for additional treatment?
- 19 A. No.
- 20 | Q. Does the utility maintain the required chlorine residual or its
- 21 | equivalent throughout the distribution system?
- 22 A. Yes. Flushing is needed in some areas of the distribution system in
- 23 order to maintain the required chlorine residual.
- 24 | Q. Are the plant and distribution systems in compliance with all the other
- 25 | provisions of Title 62, Florida Administrative Code, not previously mentioned?

- 1 | A. Yes.
- Q. Does the utility have a permit to discharge the concentrate from the membrane softening treatment plant?
- 4 A. Yes. Our Industrial Wastewater Section issued a permit to discharge the 5 concentrate.
- 6 | Q. Please state the issuance date and the expiration date of the permit.
- 7 A. Permit number FL0042838 was issued on July 3, 1991 and the expiration 8 date is June 30, 1996.
- 9 Q. Please explain how the utility disposes the concentrate from the 10 membrane softening water plant.
- 11 A. The utility disposes the concentrate using a surface water discharge to 12 the Royal Palm Waterway.
- Q. Has Palm Coast Utility Corporation been the subject of any Department of Environmental Protection enforcement action within the past two years?
- 15 A. No.
- 16 | Q. Do you have anything further to add?
- A. Yes. Water treatment plant number one received the DEP Water Treatment
  Operation Award in 1995 for their effective operation and maintenance program
  and their commitment to maintaining and protecting the drinking water quality
  and treatment facilities.

21

22

23

24

25



## Department of Environmental Protection

Lawton Chiles Governor Northeast District 7825 Baymeadows Way, Suite B200 Jacksonville, Florida 32256-7590

Virginia B. Wetherell Secretary

November 2, 1994

Mr. Thomas Trace
Pal Coast Utility Corp.
2 Utility Drive
Palm Coast, Florida 32037

Flagler County - Potable Water Palm Coast WTPs 1 & 2 PWS ID # 2180863

Dear Mr. Trace:

On June 17, 1994 sanitary surveys were done on the referenced Community Public Water Systems. Jim Hogan and Brian Matthews were both extremely helpful in providing information for our survey. No deficiencies were noted and we are pleased to state that Palm Coast currently meets or exceeds all State and Federal requirements.

The chemical analyses are all up to date for 1994. Total Trihalomethane sampling requirements were recently addressed by Ms. Vicki Singer of our office under separate correspondence. Also, the first annual Lead and Copper results were recently received and were satisfactory.

Enclosed are copies of the survey reports for your files. The cooperation we have received from you and your staff in meeting the requirements of Florida's Safe Drinking Water Program is greatly appreciated.

Sincerely,

James R. Maher, P.E. Potable Water Section

JRM:jm/ enchosures

Flagler County Health Department

ID. No. 2180863 -01

## State of Plorida Department of Environmental Protection SANITARY SURVEY REPORT for Drinking Water Systems

				Insp	ection	Date: _	2/17/	14
I. GENERAL	^							
Plant name	Pain 1	CAST	INTP A	<i>t  </i>	Cox	E	- ,	9
Plant name _	77077	. 07/37	1011			mey I	CHUCK	KZAP CC
Plant Owner	ALM COAST	· UTILITY	Caep.	_ Perso	n conta	icted _	IM HOL	AV
Address 20	TILRY D	e.		Phone	445	-33/1		
city Pacm (	CHST	_ Zip _30	037	_ Opera	tor/No.	A-20	696 F	1 405
Population S	erved <u>es</u>	t = 24.0	00 3	opera	tor Pho	ne No.	-MG	-6138
No. of servi	ce connec	tions d	0739	Meter	_20"	PREMILL	يع	
Plant design	ed by Ru	TELL O	Axion	_ Plant	Capaci	ty G	MAD	
Storage capa	city <u> </u>	45 MG		Outpu	t, avg	day _3	515	Mcs
Approval No.	/date 127	104 313	chi_	_ Daily	maximu	<u> </u>	.3aı	mus
Emergency so	urce 5001	w Gen du	olati	_ Emerg	ency po	wer Of	N RUND	202247H1
TYPE OF SERV	ICE: MA	of within	y [ ] No	n-commu	nity [	ו אסת-ו	ransie	
Type of faci:					- •			
				10 11 1	- 11	<del></del>	<del></del>	
latitude 290	0 33.00	N long	itude 💍	10/2 4	<u> ₩</u> .			
Location (pro	ovide dir	ections)	מו דשוו	D W657	FRUMI-9	15 10	BELLE &	rees.
NON BELLE T	_							
					Wor	11/801 /	001141	/ KM
II. SOURCE OF	RAW WAT	ER 🔀	ground surface	No.	of well purchas		2_	
A. Ground St	unnlies							
A. GIGANG DE	ppiles							
Hell No.	1 1		. 3	1 4	5	. 6	7	<u>s 1</u>
rear drilled Hepth	<del></del>	<del> </del>	<u> </u>	<del> </del>	<u> </u>	<u> </u>		
asing depth	1-	<del></del>	<u>:</u>	1	<del></del>	<del> </del>	<del></del>	1
asing diameter	<del></del>	<u>-</u> 1	1 .	1/	1	<del></del>	<del></del>	<u> </u>
asing material	<u> </u>	1 QII	allan	tint.	<del></del>	l	<del> </del>	1
tatic water level	1	1 110	VI TO LI	(	<del></del>		<u> </u>	!
trainer	T	1	1	i		<u></u>	1	<u> </u>
ubject to inundation		1	1	I	1		1	i————
oncrete slab		f	1	1	1			1
alt infiltration	Ī	ŧ	l .	1	1			
heck valve	1	1	i	1				<del></del>
routed	1	i	1	1	1			
ump Type	1	1		1	1			
ear pumo	1	1			1 !			
abacity (gpm)	1				i .			
onsepower	1							
orments								

\* Based on a 2.25 multiplier of pursons pur connection. Best available data from Carry - Utility.

III. TREATMENT		•	
A. General	[] aeration    chlorinatio   iron remova   filtration   pH adjustme [] reverse osm [] ion exchang	n () coa l () rec [ ] flu nt [ ] sed osis [ ] mem	e softening gulation gulation arbonation or idation imentation brane filtration uestration
pil B. Aeration	No. of trays dimensions [ ] slimes/alga- [ ] screens sat comments:		
c. Chemical Use			
LIME 38 MT  WHE 184 ANNUT UST  Chlorine Advence  Ammonia Permatt	150 # 1100	CIDEIHER	DUPDOSE SETPLINE ELLEWATEN 3ppm DALPATRON DALPATRON
Colquest Pohydochal LMI D. Chemical Faed Spa [] oil Spa [] moi	S CAD	[] chemical N has repair	spilled
E. <u>Scamplation</u> File   set   no   pin	tling poor blanket seen point floc	[ ] chem dose [ ] effluent [ ] color rem	questionable taste & odor oval good
F. Softening {     [] flo     ro[:] fee     [>] slu     [7] imp	<pre>} spiractor { } c unstable d intermittent er leaves clear dge return used roper sludge lev</pre>	accelerator {  [ ] blanket v  [ ] settling  [ ] silica us  [ ] coagulant el	reaction basin isible good ed aid mu downward worth
WIM G. Fluoridation [ ] ana [ ] sep [ ] dus [ ] mon	lyses OK arate storage ty enclosure thly samples OK	( ) fooder un	rks well led shut downs
( ) alga	e present	[ ] clearwell [ ] sediment .	turbid ** in clearwell ept clean
[ ] perm location No. of m	siment ed	osal	alarm/shutdown
t TABLE WELLT WAS			

Page 2 of 4

RICHARDE MEDIA YEARLY.

J. Disingection	l r pack OK	64.16	ad washers k		
<i>∨</i> 7 •••	ench present		monia kept	epc	
	n works	1 si	ngle system		
i∡i du	al system	∭ au	tomatic chan-	ge over	
	ak detector	<u>5</u>	ss of capabi	lity alarm	
	st kit OK	Ø pr	operly chain	ed/stored	
Vivin ham be a market	ple stock		pair kit	_	
Number of res	eders 3 c	apacityY	n distributi	<u> </u>	
comments:	rader et pran	·	. araciraneri	O., <u>17</u>	
IV. STORAGE	oround sto ∫ hydropneum →	rage Datic tank	clear well	storage l	
tank number	1 1	1 2	! 3	l 4	1 ×
capacity (gallons)	1.000.000	300.000	750,000	400 000	7
material	760	sleet	ا علودا	syeo	ゴ
drain capacity	34.	2.(,''	huckapt	hydrovat	ユ
bypass capacity	3000	10.	-16"	76"	_
screens	NA NIA	36	110	100	+
relief valve condition	while and	11st	Claned 1953	DIM	-+
comments	and olega		1201-150	124-> 168'	<del></del>
	(1-27)	plenmell.	1-95	Bercheid	<del></del>
V. HIGH SERVICE	PUMPS			TRAINE	BU
Marin In a ma	120.	120-		Company of	Reg
Number horsepower	361	2 2	125	<del>20</del> 4 30	
capacity (gpm)	1000	2000	3000	1700 300	5 44
Model/type	שיטעו מבא	mar	DEMUS	Flm Flm	2 Fli
comments			DESEL DOIT	100	
					<u> </u>
vI. DISTRIBUTIO material W. L. C. AC operation pressure No. of Dead ends pre Are there any cross are there any sanital Any leaks suspected? Supply shortages? comments	max diam 30" sent? 1800 connections? next ry hazards next	min diam Fire system Fire system Flushing I mu known - I	3/4 <sup>4</sup> 425 ~ 160 5 kept? yes 400 CCC Pla	o hydrants	>
VII. WATER QUAL	ITY REVIEW				
A. <u>Chemical</u> 1. lab capability	i⊠ oth	ioride	d chlorine	<u>~`,                                    </u>	
2. Chems [ Y Primary Inorganic [ Y Secondary Standar [ Y Turbidity [ Y VOC's [ J Radionuclides [ Y Nitrate	cs 1193 ( cds 11193 ( codinado 9144 1193 (	TTHM's Y Group I I J Group II J Pesticide Asbestos Nitrite	UC's 1/43 UC's 1/43	2	
comments: ¥ 74M mu				be Reento G	-72J.
Ador check Surpus					<u>-</u>
A new 2 mc Gs	T'is planned	to be inst	alled behind	. IMG ta	nk
former 100,000gel ele	veiled link G	South Zone	to be disr	nantled.	

CONCLUSION  Pacility meets State and Federal mir Supplement information is attached The following deficiencies were note  Deficiency	ed Co	ode Reference
The following deficiencies were noted	Co	ode Reference
ctor's Signature: James & M	laker Date	: n/28/44
:	I	101007
ved by:	Date	:
Supervisor (signatu	ire)	
L.19= 241255		المنتان والمناه
CIME FILES	<u>-</u>	7 ~
502012		
	CI VAE	1.0ma,
	37.05	( RESEAUC)
	200	
numeric G		3.4. CC-1
Out wan		Fine C
W.C.	pompo	11 1-45
	Parkage Company Compan	المراجة المحادث
WATER TO SECURE	75471	) 3:9C HS.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J-0068 3	
V survive T	Per 20	

100L6 4"

#### PALM COAST UTILITY CORPORATION

### ACTIVE WELLS - SHALLOW AQUIFER (WTP NO. 1)

We No		Casing Diameter (inches)	Open Hole Diemeter (Inches)	Total Depth (leet)	Casing Depth (legt)	Flowing/ Pumped	Sale Sustained Yield' (opm)	Transmis- sitivity <sup>s</sup> (qpd/ft)	Storage Coefficient	Leskance <sup>2</sup> (day <sup>-1</sup> )	Aquiler	Use
CM	V-4	12	6	110	88	pumped	100	2000	3.0 x 10-4	2.0 x 10 <sup>-3</sup>	shallow	domestic
	V-4 V-5	16	10	90	58	pumped	250	2000	3.0 x 10 <sup>-4</sup>	2.0 x 10 <sup>-4</sup>	shallow	domestic
	v-5 V-6	12	6	94.5	48	pumped	120	2000	3.0 x 10 <sup>-4</sup>	2.0 x 10.4	shallow	domestic
_			-	84	55	pumped	150	2000	3.0 x 10"	2.0 x 10 <sup>-4</sup>	shallow	domestic
	N-7	12	8	-		• •	250	2000	3.0 x 10 <sup>-4</sup>	2.0 x 10 <sup>-4</sup>	shallow	domestic
	/-8	14	•	84	50 42	pumped	120	2000	3.0 x 10 <sup>-4</sup>	2.0 x 10 <sup>-4</sup>	shallow	domestic
<b>+</b> _4		12	6	102		pumped	175	2000	3.0 x 10 <sup>-4</sup>	2.0 x 10 <sup>-4</sup>	shallow	domestic
	V-14	12	6	87	55	pumped		2770	5.5 x 10 <sup>-4</sup>	1.2 x 10 <sup>-4</sup>	shellow	domestic
_	N-27	18	12	80	50	pumped	275 250	2770	5.5 x 10 <sup>-4</sup>	1.2 x 10.4	shallow	domestic
	N-28	16	10	83	58	pumped		2770	5.5 x 10 <sup>-4</sup>	1.2 x 10.4	shallow	domestic
	N-29	16	10	85	60	pumped	150	1560	3.6 x 10 <sup>-4</sup>	3.3 x 10 4	shellow	domestic
	W-30	16	10	62	65	pumped	125	5966	3.0 x 10 <sup>-3</sup>	2.8 x 10 <sup>-4</sup>	shallow	domestic
	W-31	14	•	102	53	pumped	250	1560	3.6 x 10'4	3.3 x 10 <sup>-4</sup>	shallow	domestic
-	N-32	16	10	86	70	pumped	120		1.4 x 10 <sup>-4</sup>	4.3 x 10 <sup>-4</sup>	shallow	domestic
-	W-33	16	10	95	62	pumped	200	3570	1.4 x 10 <sup>-4</sup>	4.3 x 10 <sup>-4</sup>	shellow	domestic
\$ <b>V</b>	N-34	16	10	113	70	pumped	250	3570			shallow	domestic
SV	N-35	16	10	90	63	pumped	200	3570		4.3 x 10° 4.3 x 10°	shallow	domestic
SV	W-36	16	10	90	60	pumped	200	3570	1.4 × 10 <sup>-4</sup>		shallow	domestic
SV	N-58	16	10	85	48	pumped	275	2500	4.7 x 10 <sup>-4</sup>		shallow	domestic
SV	N-59	16	10	80	48	pumped	225	2500	4.7 x 10 <sup>-4</sup>	3.0 x 10 <sup>-4</sup>		domestic
SV	W-60	16	10	98	65	pumped	100 .	2000	1.3 x 10 <sup>-4</sup>	3.0 x 10 <sup>-4</sup>	shallow	domestic
-> SY	N-61	16	10	80	40	pumped	120	2000	1.3 x 10 <sup>-4</sup>	3.0 x 10 <sup>-4</sup>	shallow	domestic
	N-62	16	10	85	58	pumped	200	2220	1,4 x 10 <sup>-4</sup>	4.0 x 10.4	shallow	-
	W-105	16	10	90	63	pumped	100	2000	1.3 x 10.4	3.0 x 10 <sup>-4</sup>	shallow	domestic
	N-106	16	10	95	68	pumped	140	2000	1.3 x 10 <sup>-4</sup>	3.0 x 10.4	shallow	domeetic
	W-105	16	10	84	48	pumped	200	2220	1.4 × 10⁴	4.0 x 10.4	shallow	domestic
	W-107	16	10	85	53	pumped	250	8356	2.3 x 10 <sup>-4</sup>	1.0 x 10 <sup>-4</sup>	shallow	domestic
	V-115	16	10	85	60	pumped	400	8356	2.3 x 10 <sup>-4</sup>	1.0 x 10 <sup>-4</sup>	ehallow	domestic

Total 5,195

11010470

ID. No. 2180363-02

# State of Florida Department of Environmental Protection SANITARY SURVEY REPORT for Drinking Water Systems

Inspection Date: 6/17/94  I. GENERAL  Plant name Acm (cms7 W7/ #) County fractor  Plant Owner from Common Unity Comp. Person contacted from matrix and address.  Address 2 Willist Drive Phone 445-33/1  City Parm Coms7 zip 31037 Operator/No. A 3848  Population Served st 24000 Operator Phone No. 437-63?  No. of service connections 10737 Meter in Lare  Plant designed by V fractor, PE. Plant Capacity 2 Mad Storage capacity 2.04 MV Output, avg day 167 MAD  Approval No./date were mad 13/4/90 Daily maximum 383 MOD  Emergency source were 1014 for Emergency power 600 km 013560  Type of facility: Monicipal 1 Non-community 1 Non-transient  Type of facility: Monicipal 81° 12'08" w
Plant name Acm (CMS7 WTP #2 County fractor  Plant Owner form (CMS7 Unity (CAP) Person contacted fractor  Address 2 United Drive Phone 445-33/1  City frac Cons7 zip 31037 Operator/No. A 3848  Population Served est 24000 Operator Phone No. 437-1033  No. of service connections 10739 Heter in Laz  Plant designed by V Hear 6847, PE. Plant Capacity 2 MAD  Storage capacity 2.04 MV Output, avg day 1167 MAD  Approval No./date WC 8 1843/ 13/14/90 Daily maximum 383 MAD  Emergency source 1070 = Emergency power 600 km Dissec  TYPE OF SERVICE: 1 Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
Plant Owner from Cossi Unuty Cap. Person contacted Reign matrices  Address 2 Villet Phone 45-33/1  City Pacm Const zip 31037 Operator/No. A 3848  Population Served ost 24000 Operator Phone No. 437-533  No. of service connections 10739 Meter in Lat  Plant designed by V Hackbert, PE. Plant Capacity 2 Mad  Storage capacity 2.04 MV Output, avg day ,167 Mad  Approval No./date WCR MW3/ 13/14/90 Daily maximum ,383 Mad  Emergency source (WTP ±0/ Emergency power 600 to Dissective of facility: MUNICIPAL
Address 2 VIII DRIVE Phone 445-33/1  City PACM Cons7 zip 34037 Operator/No. A 3848  Population Served est 24000 Operator Phone No. 437-153?  No. of service connections 10737 Meter in Cons  Plant designed by V flore 6007, PE. Plant Capacity 2 mcD  Storage capacity 2.04 MV Output, avg day 167 mcD  Approval No./date wc 8 1443/ 13/14/90 Daily maximum 383 mcD  Emergency source 1070 Emergency power 60060 Ossec  TYPE OF SERVICE: 54 Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
City Parm Coms7 zip 31037 Operator/No. A 3848  Population served ost 24000 Operator Phone No. 437433?  No. of service connections 10739 Meter in Companity 2 man 2
Population Served of 24000 operator Phone No. 437-33?  No. of service connections 10739 Meter in Car  Plant designed by V Nochbert, PE. Plant Capacity 2 McD  Storage capacity 2.04 MC output, avg day 167 McD  Approval No./date WCR A443/ 13/14/90 Daily maximum .383 McD  Emergency source 1070 Emergency power 600 fc Orse  TYPE OF SERVICE: 51 Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
No. of service connections 10739 Meter in Car  Plant designed by V flow 6007, PE. Plant Capacity 2 mcD  Storage capacity 2.04 mc output, avg day ,167 mcD  Approval No./date wc n 1443/ 13/14/90 Daily maximum ,383 mcD  Emergency source wt for for Emergency power 600 fc Orsec  TYPE OF SERVICE: 54] Community [ ] Non-community [ ] Non-transient  Type of facility: Municipal
Plant designed by V Noc. BMC7, PE. Plant Capacity 2 MCD  Storage capacity 2.04 MC Output, avg day ,167 MCO  Approval No./date WCR AW3/ 13/14/90 Daily maximum ,383 MCO  Emergency source WTP = O/ Emergency power GOOKW Dissec  TYPE OF SERVICE: 541 Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
Approval No./date wc n 143/ 13/14/90 Daily maximum .383 mod  Emergency source wc n 143/ 13/14/90 Emergency power wc n 167 nc n 16
Approval No./date WCR RW3/ 13/14/90 Daily maximum .383 MoO  Emergency source WTP ±0/ Emergency power 600 kW 015560  TYPE OF SERVICE: 54] Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
Approval No./date WCR RW3/ 13/14/90 Daily maximum .383 MoO  Emergency source WTP ±0/ Emergency power 600 kW 015560  TYPE OF SERVICE: 54] Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
Emergency source WTP ±01 Emergency power 600 kW Dissective of SERVICE: 50 Community [ ] Non-community [ ] Non-transient Type of facility: MUNICIPAL
TYPE OF SERVICE: [ ] Community [ ] Non-community [ ] Non-transient  Type of facility: MUNICIPAL
Type of facility: MUNICIPAL
latitude 29 26 30 N longitude 81 12 08 W
Location (provide directions) HWY 100 - 3.4 m. South on Belle
Terre 1ett on Cidation Blad. 50 Citation Blad.
II. SOURCE OF RAW WATER (X) ground No. of wells 5
[ ] surface [ ] purchased
A. Ground Supplies
LW 21 LW 30 CW 31 W 25 LW 32
Vell Ko. 1 2 3 6 7 8 year drilled 1990 1990 1990 1990 1990 1990
death
depth   335'   260'   330'   250'   360'
casing depth 109 108 1051 100 10151
casing depth $109' 108' 105' 10' 1015'$
casing depth $109' 108' 105' 10' 1015' 11'$ casing diameter $113'' 113'$
casing depth       1 09' 108' 105' 10' 10.5' 1         casing diameter       1 12" 12" 12" 12" 12" 1         casing material       1 PW 1 PVC 1 PVC 1 PVC 1         static water level       1 7' 10 15 1 9.0' 19.75' 10.05' 1         strainer       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
casing depth $109' 108' 105' 10' 1015'$ casing diameter $112'' 12'' 12'' 12'' 12'' 12'' 12'' 12$
casing depth       1 09' 108' 105' 10' 1015' 1         casing diameter       1 12" 12" 12" 12" 12" 12" 12" 1         casing material       1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
casing depth       1 09' 108' 105' 10' 1015' 1         casing diameter       1 12" 12" 12" 12" 12" 12" 1         casing material       1 00' 100' 100' 100' 100' 1         static water level       7' 1015 19' 100' 100' 1         strainer       1 10' 10' 10' 10' 10' 10' 10' 10' 10' 10
casing depth       109' 108' 105' 10' 1015' 1         casing diameter       12" 12" 12" 12" 12" 1         casing material       19M
casing depth         109         108         105         100         101.57         1           casing diameter         120
casing depth         109         108         105         10         10.5′         1           casing diameter         112         12°         12°         12°         1 </td
109   108   105   1015   1   1   1   1   1   1   1   1   1
casing depth         109         108         105         10         10.5′         1           casing diameter         112         12°         12°         12°         1 </td

III. TREATMENT		·	
A. General  B. Aeration	aeration to chlorinati [ ] iron remov [ ] filtration [ ] pH adjustm [ ] reverse os: [ ] ion exchange [ No. of trays [ dimensions ]	on [] coa al [] rec al [] flu ent [] sed mosis [] mem ge [] seq  Lina capacit	e softening gulation arbonation oridation imentation brane filtration uestration
<i>_</i>	comments:	tisfactory [ ] H	ron debosits
C. Chemical Us	5 <u>e</u>	100 CL CTCT	DISINGETIM
	type   capacity	point of use	purpose
Colorine genal	MAL DE SCHOOL	C'C CHERT MANOR	OSINF SCTION
COCOD 100 Press	30 G3 APH 37 OPH	PEZ 40	PH ASIST FOR RO
NEDH Pulson	17.6614	Mr Xfr punp	Post 60 pH oust
Cilem LA I Am		PRE UST	Comossion Inhibiter
[X] s [] n [] e	oil on floor pare parts kept doisey operation vater on floor excessive vibration	[ ] chemical  [ ] has repai  [ ] chemicals  [ ] feeders a	spilled T manuals Well stocked
N/M E. Coamulation	l		~ GE MINS
[ ] s [ ] n [ ] p	ettling poor o blanket seen inpoint floc	[ ] effluent [ ] color rem	oval good
[ ] f { ] w [ ] s	<pre>{ } spiractor { loc unstable eed intermittent ater leaves clear ludge return used mproper sludge le</pre>	[ ] settling [ ] silica us [ ] coamplant	eq dood
NIA G. Fluoridation	n		
[ ] a; [ ] s; [ ] d; [ ] m;	nalyses OK eparate storage isty enclosure onthly samples OK	[ ] feeder wo [ ] acid spil [ ] frequent : [ ] corrosion	led shut downs
[ ] ps	udballs present ackwash works OK lgae present	[ ] clearwell [ ] sediment : [ ] gallery ke	in clearwell
acid fantisc antisc polyme	ustment eed alant	posal	alarm/shutdown
den a	Rh MOH MEDTA	inst citic a	acid or mind

解解错时。

Page 2 of 4

[.] fan [X] dua: [X] lea! [X] amp! Number of feet Chlorine resid comments: HANT TOURISE	MOUTHLY ON	pacity Jon	Check OSA	ge over lity alarm ed/stored e 95#Weg-Ver~ 3
tank number	1	2	3	41
capacity (gallons)	41,800	am-		
material				
drain capacity	~	- A~Z		
bypass capacity	70			
screens relief valve	210	403		<del></del>
condition	1000	6000		
comments			<del></del>	
V. HIGH SERVICE F Number horsepower capacity (gpm) Model/type comments	XFL 182 (2)	1050 (a)	(1) 3 50 700	4
VI. DISTRIBUTION material / VC. CINICA material / VC. CINICA material / VC. CINICA material vc. of Dead ends presented and cross color there any cross color there any sanitary any leaks suspected? Supply shortages? NOT comments	int? est (800 mnections? _r hazards near	lre svetem (	Olu" VES ~ 1600 Og kept? _ u have (CCC)	hydrants es
VII. WATER QUALIT	Y REVIEW			
A. <u>Chemical</u> 1. lab capability	į jothe	oride	chlorine H.CL twb	all continuous
<pre>2. Chems     Primary Inorganics [ ] Secondary Standard [ ] Turbidity [ ] VOC's [ ] Radionuclides [ ] Nitrate</pre>		] TTHM's ] Group I UG ] Group II UG ] Pesticides ] Asbestos ] Nitrite	UC'S 11/43	5 + 2/52
comments: * Trum monider	ing addressed 5	y Vm Singer.	To be dome g	LL.
<ol> <li>Maximum Contamina</li> </ol>	nt Level (MCI	C) Violations	s: none.	

. Is current treatment satisfactory?	
III. CONCLUSION	
Facility meets State and Federal minimum requirements   Supplement information is attached   The following deficiencies were noted	
Deficiency	Code Reference
•	
0	
nspector's Signature: James & Make p.  itle: PE II.	ate: 18/28/9:/
pproved by:  Supervisor (signature)  Difference of the state of the st	ate: 1/- 2-9,6

see attached

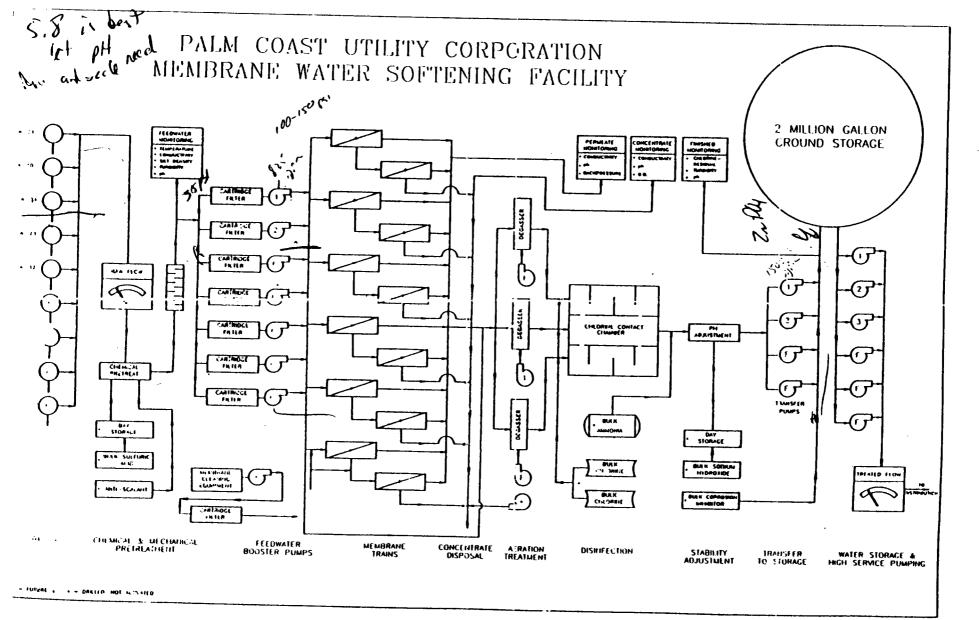


Exhibit BRR-1 (Page 11 of 11)