

December 10, 2013

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Portland, Oregon 97232
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Chuck Chamberlain
Sunset Lake RV Park
PO Box 385
Redmond, OR 97756

<http://public.health.oregon.gov/PHD/OEPH/DWP/Pages/index.aspx>

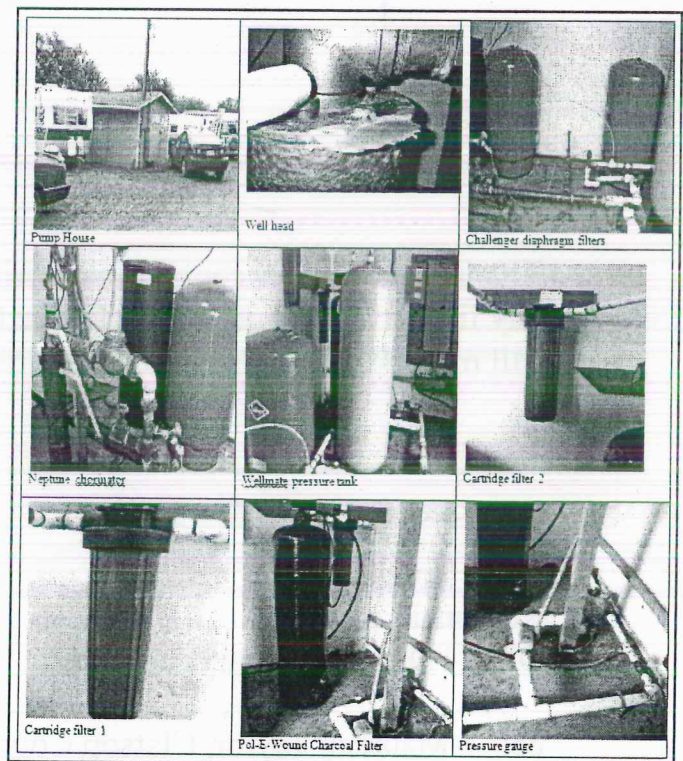
**Re: Sunset Lake RV Park (00933) Secondary Treatment
Final Approval – PR# 199-2011**

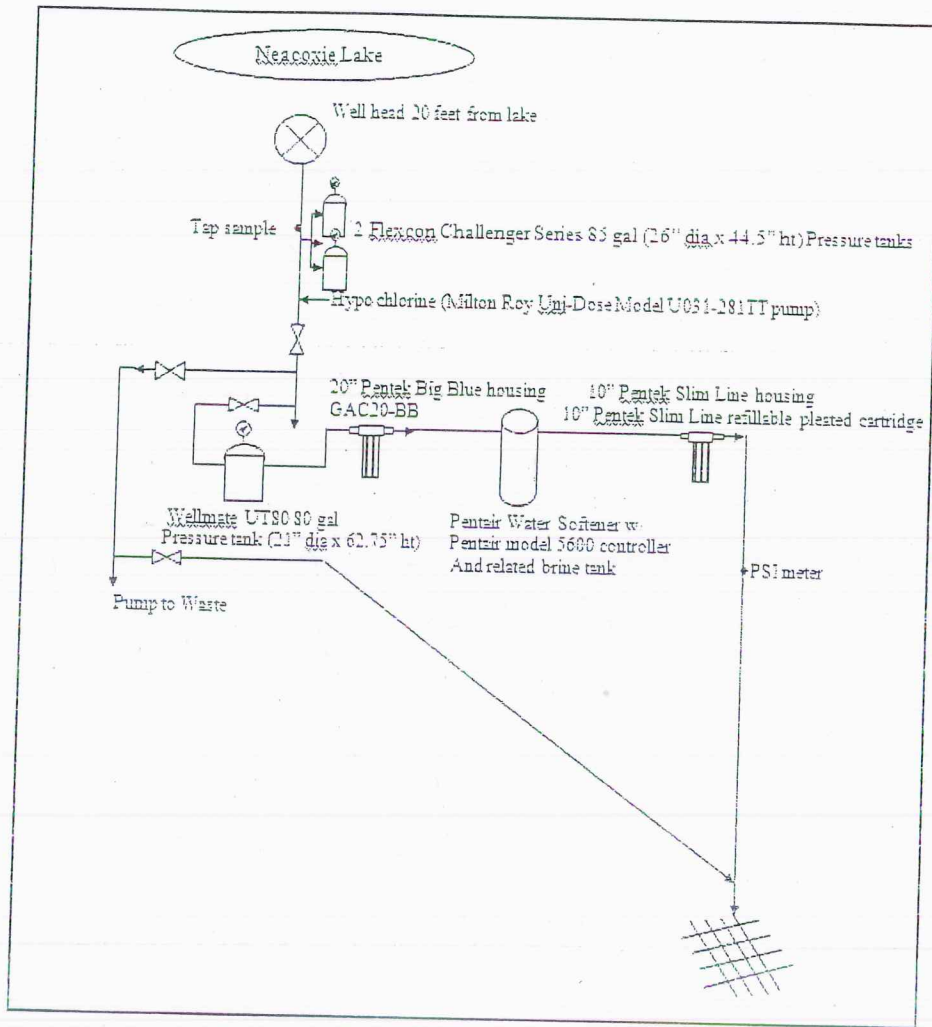
Dear Mr. Chamberlain:

Having received documentation from Maureen Taylor on November 15, 2013 that the chlorination pump was replaced with an NSF approved Milton Roy Uni-Dose pump (Model #U031-281TT) in accordance with my letter dated May 21, 2013, the **treatment system is granted Final Approval**. The treatment system consists of:

- 1) Two Flexcon Industries Challenger series diaphragm pressure tanks;
- 2) A Pol-E-Wound Model No. PW1252 water softener (certified to NSF/ANSI Standard 44) with Pentair model 5600 controller and brine tank;
- 3) Model 5600 Control Valve Drive Assembly;
- 4) One GAC20-BB charcoal cartridge filter;
- 5) One pleated particulate cartridge filter;
- 6) Liquitron FS5000 LMI Flow Controller;
- 7) One Milton Roy model #U031-281TT chlorination pump

8) One 80-gallon wellmate UT80
impressurized tank (polyethylene lined)





Thank you for your cooperation during the plan review process and if you have any further questions, or would like this in an alternate format, please feel free to call me at (971) 673-0419 or via e-mail at evan.e.hofeld@state.or.us.

Sincerely,

Evan Hofeld
Regional Engineer
OHA - Drinking Water Services

cc: Maureen Taylor, Clatsop County Health and Human Services



CHECKLIST FOR WATER SYSTEM PLAN REVIEW

Finished Water Storage OAR 333-061-0050(6)

Name of System: Sunset Lake RV Park
Name of Project: Secondary Treatment
Plan Review#: 199-2011
Design's Engineer: Chuck Chamberlain

Date Plan Received: 08/07/06
Date Plan Reviewed: 05/21/13
PWS ID#: 4100933
County: Clatsop

PE-prepared plans not required. Reason: [see checklist of reasons on back]

	Plan Review		Field Visit	
	Y	N	Y	N
Appropriate plan review fee received? (or attach signed fee waiver form) <i>Amount \$</i> <u>Fee</u> <u>waived - secondary treatment</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Land Use Compatibility Statement or equivalent submitted? <u>Not required</u>	<input type="checkbox"/>	<input type="checkbox"/>		

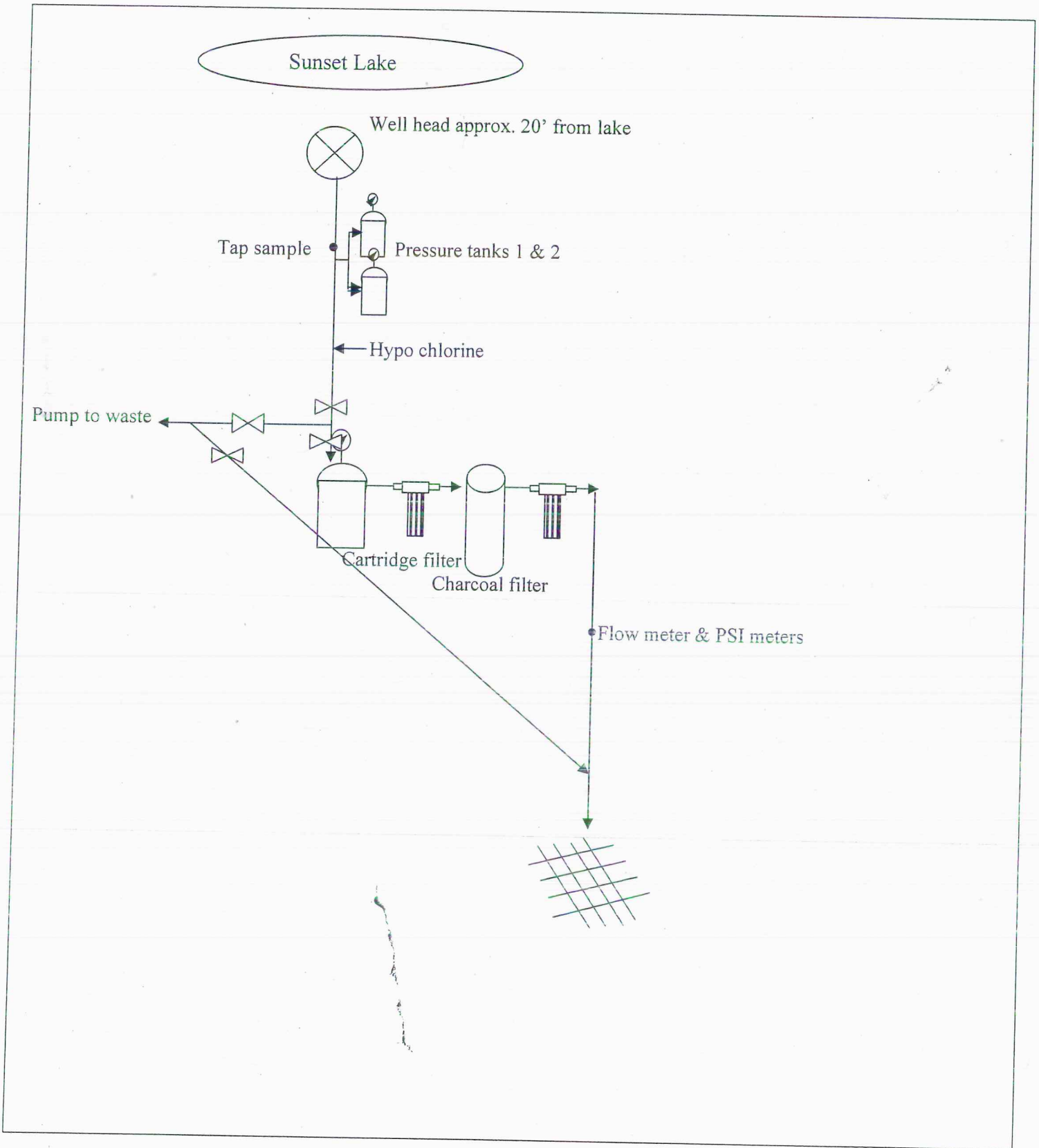
Site Plan:

Geologic evaluation submitted? <i>(a)(B)</i> <u>Not required - tanks < 86 gallons</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Foundation adequate (undisturbed soil, bedrock, etc.)? <i>(a)(B)</i> <u>N/A - tanks < 86 gal</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Provisions for a fence or other vandal deterrence? <i>(a)(P)</i> <u>Inside locked building</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Construction Specifications:

What is the maximum operating volume capacity? <u>80</u> gallons				
Of what material is the storage facility made? <i>(a)(A)</i> <u>Polyethylene tank</u>				
If redwood, are continuous chlorination provisions made? <i>(a)(E)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If redwood, is there a reinforced concrete base? <i>(a)(E)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If concrete, is sufficient reinforcement supplied? <i>(a)(E)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If steel, does it meet AWWA standards? <i>(a)(C)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If partially below ground, are footing drains provided? <i>(a)(G)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If fire hydrants are provided, is storage sized appropriately? <i>(a)(H)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there a watertight roof? <i>(a)(I)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there a screened vent? <i>(a)(J)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there a drain to daylight? <i>(a)(M)</i> <u>Yes</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there a flap valve at the end of the overflow? <i>(a)(M)</i> <u>N/A - drain valve</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are overflow and drain a common pipe? <i>(a)(M)</i> <u>N/A</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there separate inlet/outlet pipes? <i>(a)(O)</i> _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If a single inlet/outlet pipe, is there sufficient mixing? (e.g., diffusers, tracer study, hydrodynamic study...) <i>(a)(O)</i> <u>N/A</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the storage volume baffled for contact time enhancement? <i>(a)(R)</i> <u>No</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If so, to what degree?				
1) Effective volume _____				
2) Estimated contact time _____				
3) Contact time from tracer study <i>(a)(R)</i> _____				
Was a tracer study performed? <i>(a)(R)</i> <u>Not Required</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

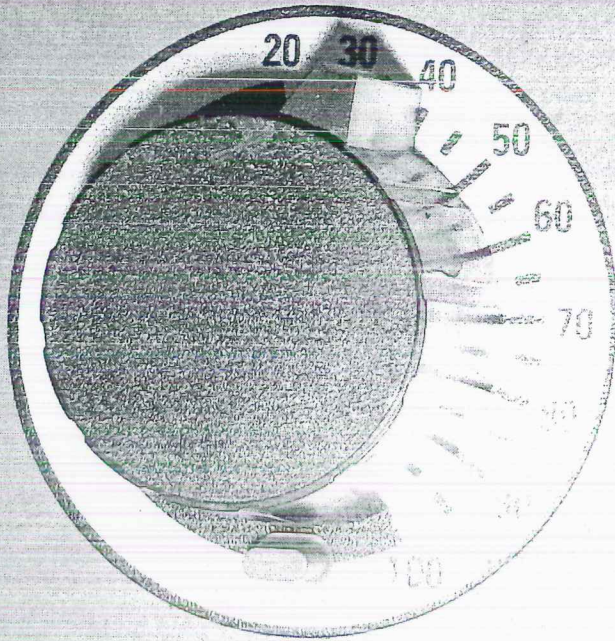
Water System Schematic





Uni-Dose[®]

ASSEMBLED IN U.S.A. BY MILTON ROY CO
201 IVYLAND RD, IVYLAND PA 18974



120 VAC

50/60 HZ

1.4 A

MODEL #

U031-281TT

SERIAL #

12123501187-1

MAX
GPD

24

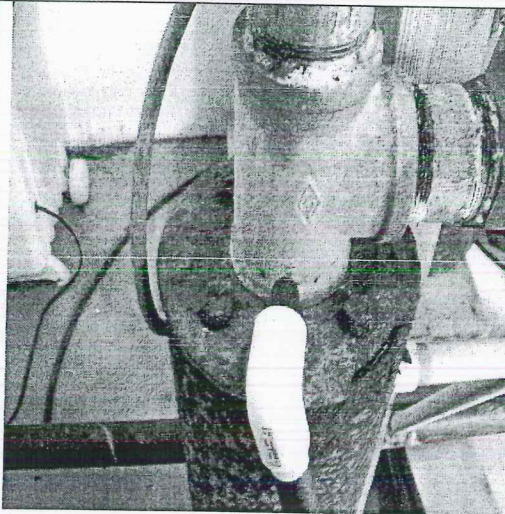
MAX
PSI

80

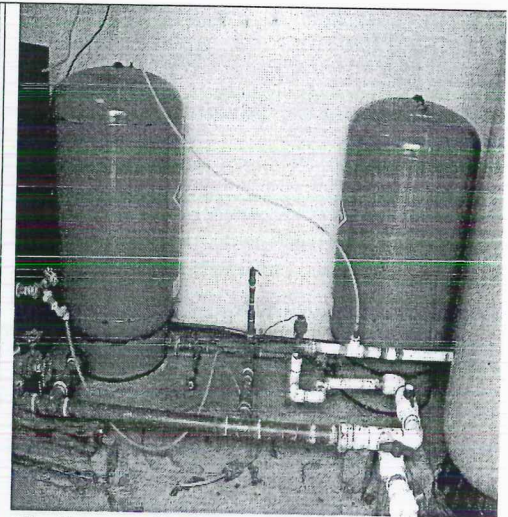




Pump House



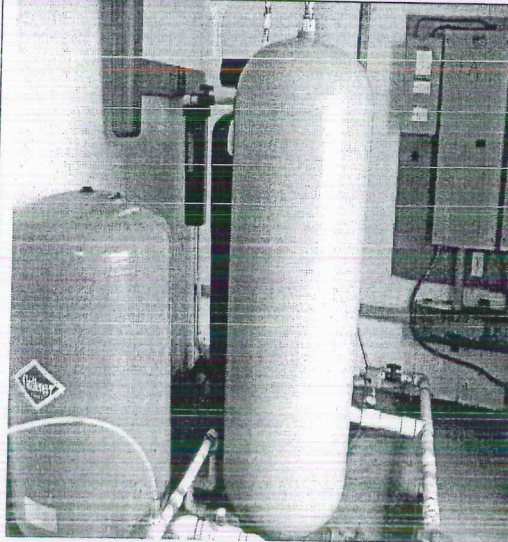
Well head



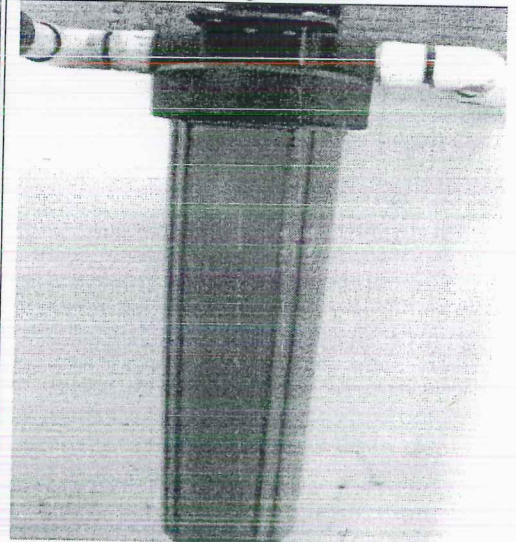
Challenger diaphragm filters



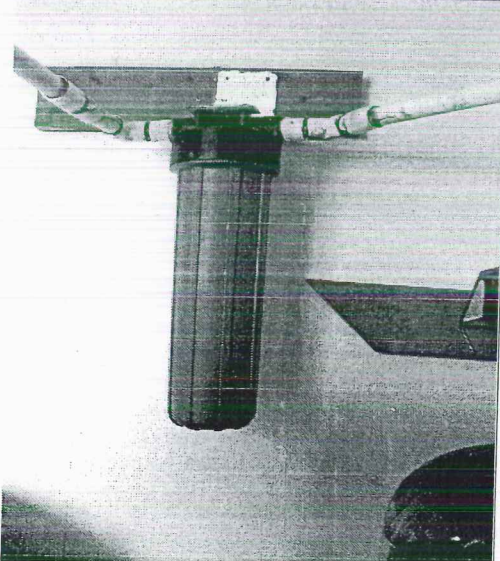
Neptune chlorinator



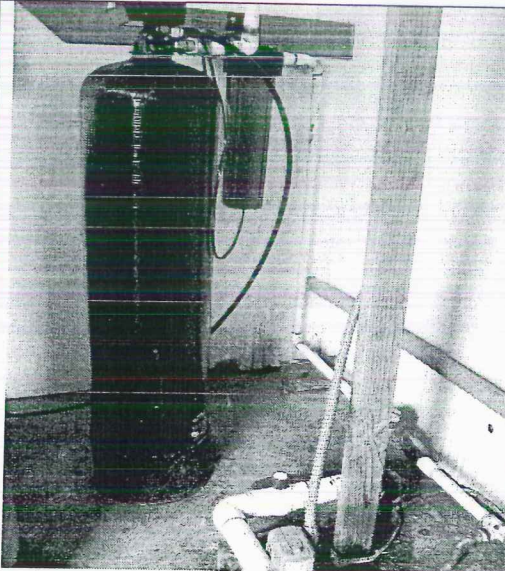
Wellmate pressure tank



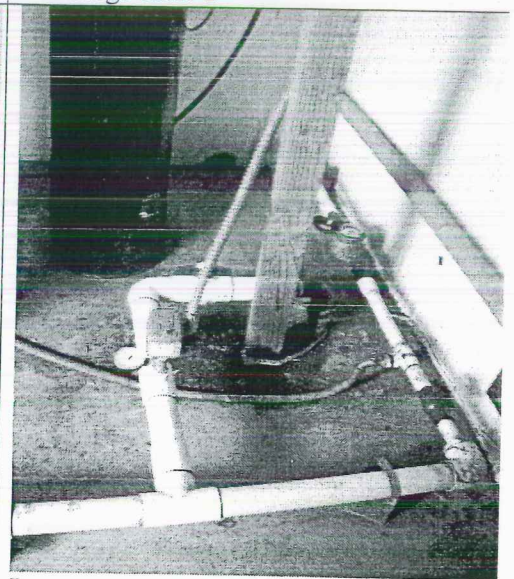
Cartridge filter 2



Cartridge filter 1



Pol-E-Wound Charcoal Filter



Pressure gauge