

May 21, 2013

800 NE Oregon Street, Ste 640
Portland, Oregon 97232
Voice (971) 673-0405
FAX (971) 673-0694
TTY (971) 673-0372

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
Conditional Approval – PR# 199-2011**

Dear Mr. Chamberlain:

Having received further documentation regarding the treatment system for the Sunset Lake RV Park, collected at the time of the last water system survey conducted by Maureen Taylor on September 20, 2012 and a review of the equipment installed, **the system will not be granted Final Plan Approval until the chlorine injection pump is replaced with one that meets National Sanitation Foundation Standard 61 (NSF-61).** The treatment system currently 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 Neptune (Tecmina Corporation) model PZ-61-VFC-1/4x3/8PE-W-S-ULP-NP solenoid-driven metering pump.

I was unable to find any documentation that indicated if the Neptune chlorine injection pump met NSF-61. Furthermore, the chlorine injection pump is described by the manufacturer's model code description as a "model for injection of general chemicals" and not the "model for injection of sodium hypochlorite" that this manufacturer provides (see model code descriptions on the following two pages).

Model code

* When selecting the pump model, first check the "Liquid-end material" and "Specification".

Model for injection of general chemicals

PZ - **31** - **VEC** - **1/4x3/8PE** - **W** - **S** - **ULP** - NPR
 (1) (2) (3) (4) (5) (6)

(1) Model (discharge volume standard)

Model	Discharge volume
31	30 mL/min
61	60 mL/min
12	100 mL/min

(2) Liquid-end material

Type	Pump head	Diaphragm	Check ball	O-ring
VEC	PVC	PTFE	Ceramic	EPDM
VFC	PVC	PTFE	Ceramic	Fluoro-rubber

(3) Hose standard

Code	Size (I. D. X O. D.)	Material
1/4x3/8 PE	1/4"x3/8"	Discharge side: PE tube
		Suction side: PVC braided hose

(4) Joint specification

Code	Type
W	Standard

(5) Applicable standard

Code	Type
S	Standard
CE	CE marking-compatible

(6) Power plug

Code	Type
ULP	UL plug

PZ - **31** - **FEC/FFC** - **1/4x3/8PE** - **W** - **S** - **ULP** - NPR
 (1) (2) (3) (4) (5) (6)

(1) Model (discharge volume standard)

Model	Discharge volume
31	30 mL/min
61	60 mL/min
12	100 mL/min

(2) Liquid-end material

Type	Pump head	Diaphragm	Check ball	O-ring
FEC	PVDF	PTFE	Ceramic	EPDM
FFC	PVDF	PTFE	Ceramic	Fluoro-rubber

(3) Hose standard

Code	Size (I. D. X O. D.)	Material
1/4x3/8 PE	1/4"x3/8"	PE tube

(4) Joint specification

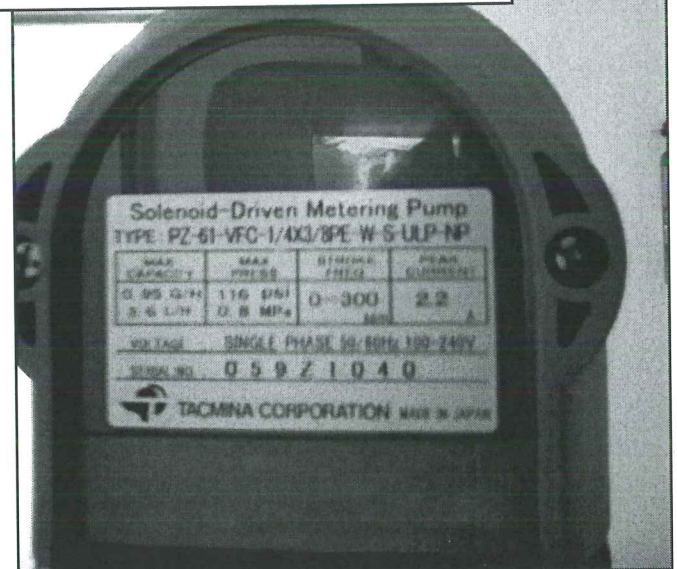
Code	Type
W	Standard

(5) Applicable standard

Code	Type
S	Standard
CE	CE marking-compatible

(6) Power plug

Code	Type
ULP	UL plug



Model code

* When selecting the pump model, first check the "Liquid-end material" and "Specification".

Model for injection of sodium hypochlorite

PZ - **31** - **CL** - **1/4x3/8PE** - **W** - **S** - **ULP** - NP

(1) Model (discharge volume standard)

Model	Discharge volume
31	30 mL/min
61	60 mL/min
12	100 mL/min

(2) Liquid-end material

Type	Pump head	Diaphragm	Check ball	O-ring
CL	Acrylic (PMMA)	PTFE	Ceramic	Fluoro-rubber

(3) Hose standard (size/material)

Code	Size (I. D. X. O. D.)	Material
1/4x3/8 PE	1/4"x3/8"	Discharge side: PE tube
		Suction side: PVC braided hose

(4) Joint specification

Code	Type
W	Standard

(5) Applicable standard

Code	Type
S	Standard
CE	CE marking-compatible

(6) Power plug

Code	Type
ULP	UL plug

Model w/ automatic air-release function for injection of sodium hypochlorite

ARPZ - **31** - **CL** - **1/4x3/8PE** - **W** - **S** - **ULP** - NP

(1) Model (discharge volume standard)

Model	Discharge volume
31	30 mL/min
61	60 mL/min
12	100 mL/min

(2) Liquid-end material

Type	Pump head	Diaphragm	Check ball	O-ring
CL	Acrylic (PMMA)	PTFE	Ceramic	Fluoro-rubber

(3) Hose standard (size/material)

Code	Size (I. D. X. O. D.)	Material
1/4x3/8 PE	1/4"x3/8"	Discharge side: PE tube
		Suction side: PVC braided hose

(4) Joint specification

Code	Type
W	Standard

(5) Applicable standard

Code	Type
S	Standard
CE	CE marking-compatible

(6) Power plug

Code	Type
ULP	UL plug

If you have further questions about the pump you have, the contact information for Neptune Pump Company in Pennsylvania is (215) 699-8700. A list of NSF-61 certified chemical metering pump manufacturers from a preliminary search on NSF's web site (<http://www.nsf.org/certified/PwsComponents/>) is included on the following page.



NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, May 21, 2013** at 12:15 a.m. Eastern Time. Please [contact NSF International](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://www.nsf.org/Certified/PwsComponents/Listings.asp?ProductType=Chemical+Metering+Pumps&>

NSF/ANSI STANDARD 61 Drinking Water System Components - Health Effects

NOTE: Unless otherwise indicated for Materials, Certification is only for the Water Contact Material shown in the Listing. Click here for a list of [Abbreviations used in these Listings.](#)

Blue-White Industries, Ltd.
5300 Business Drive
Huntington Beach, CA 92649
United States
714-893-8529
[Visit this company's website](#)

<http://www.blue-white.com/>

Milton Roy Company
201 Ivyland Road
Ivyland, PA 18974
United States
215-441-0800
[Visit this company's website](#)

http://www.lmipumps.com/corp/details/0,10294,CLI1_DIV12_ETI2587,00.html

Prominent Fluid Controls
136 Industry Drive
Pittsburgh, PA 15275
United States
412-787-2484
[Visit this company's website](#)

<http://www.prominent.us/Home-2.aspx>

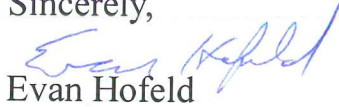
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Please let me know how and when this condition is to be met and if you have any questions, or would like this in an alternate format, please feel free to call me at (971) 673-0419 or via e-mail at evan.e.hofeld@state.or.us.

Sincerely,



Evan Hofeld

Regional Engineer

OHA - Drinking Water Services

cc: Maureen Taylor, Clatsop County Health and Human Services

