



DIVISION OF INDUSTRY SERVICES
PO BOX 7162
MADISON WI 53707-7162
Contact Through Relay
www.dsps.wi.gov/sb/
www.wisconsin.gov

Scott Walker, Governor
Dave Ross, Secretary

November 10, 2014

CUST ID No. 1280053

ATTN: Plumbing Inspector

CURT BOOS
BOHL AND PROULX PLUMBING
1280 WEST RIVER ST
CHIPPEWA FALLS WI 54729-1952

MUNICIPAL CLERK
VILLAGE OF ROBERTS
107 E MAPLE ST
ROBERTS WI 54023-9703

**CONDITIONAL APPROVAL
PLAN APPROVAL EXPIRES: 11/10/2016**

SITE:

River States Truck & Trailer
St Hwy 65 & 690 Star Ln
Village of Roberts, 54701
St Croix County
NE1/4, SE1/4, S34, T29N, R18W

FOR:

Facility: 692699 RIVER STATES TRUCK & TRAILER
ST HWY 65 & 690 STAR LN
ROBERTS 54701
Plan Type: Addition-Alteration; 1 Interior Fixture(s)

Identification Numbers
Transaction ID No. 2365482
Site ID No. 738909
Please refer to both identification numbers, above, in all correspondence with the agency.

Object Type: Commercial Water Treatment Device Regulated Object ID No.: 1470244

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been **CONDITIONALLY APPROVED**. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements.

No person may engage in or work at plumbing in the state unless licensed to do so by the Department per s.145.06, stats.

The following conditions shall be met during construction or installation and prior to occupancy or use:

- The installation of three point-of-use (POU) reverse osmosis systems (RO's) is permitted via WDNR Consent Order 2012-WCEE-021 issues to River States Truck & Trailer on October 20, 2014.
- Any wall hydrant that is not served by one of the POU RO systems shall have one, or more, of the following:
 1. The handles of the hydrant shall be removed;
 2. the hydrant shall be capped and sealed using solder; or
 3. signage shall be posted immediately above the hydrant indicating the water is unfit for human consumption.
- All water distribution piping shall be labeled as specified in Table SPS 382.40-1a.
- All outlets intended to provide potable water, with the exception of toilets and urinals, that are not served by a POU RO system must display acceptable signage as required under s/ NR 809.951 Wis. Adm. Code. The WDNR shall determine the specific placement and informational contact of the signage.
- The existing onsite drain, waste and vent piping must be properly sized to handle the additional wastewater loading of the POU RO's.

- The finished installation must pass a final inspection prior to the treated water being used for consumptive purposes. The Plumbing Consultant having jurisdiction in this area is Don Hough. Mr. Hough can be reached via the following:

Phone: 715-634-4804

E-mail: Donald.hough@wisconsin.gov

If the treated water is used for consumptive purposes prior to passing the final inspection, then this approval may be rendered null void and the devices ordered removed. The Plumbing Consultant shall provide a written indication of the results of the final inspection to the system owner.

When the final inspection has been passed, the Plumbing consultant will notify the Wisconsin Department of Natural Resources (WDNR) Field Staff having authority over the well. The WDNR will then monitor the quality of the treated water to its satisfaction. Monitoring advice, which the WDNR is free to accept or reject, is provided elsewhere in this letter. The WDNR Staff having authority over this well is Lacey Hillman. Ms. Hillman can be contacted via the following:

Phone: 715-590-3787

E-mail: lacey.hillman@wisconsin.gov

- The suggested monitoring interval for this installation is quarterly. As a minimum, the following test should be performed:

1. Nitrate (NO₃⁻)

The treated water samples should be collected from the RO system's dedicated faucet, after the storage tank is emptied. This means the treated water collected for analysis will be direct flux from the membrane, not water from the storage tank. If a raw, untreated water sample is required, then it should be collected at the same time as the treated water samples at a point upstream of any and all water treatment equipment. Each RO must be sampled individually.

The reverse osmosis systems being installed have been previously approved under DSPS product file 20140194:

<http://dsps.wi.gov/sb/docs/sb-ppalopp/wtd/20140194.pdf>

All stipulations displayed in the approval letter for product file 20140194, and the manufacturer's installation and maintenance instructions, must be adhered to. If this approved RO system is modified or additional assertions of product performance are made, then this approval shall be considered null and void, unless the change is submitted to DSPS for review and the approval is reaffirmed. The RO systems were tested under controlled laboratory conditions in accordance with NSF/ANSI Standard 58. The actual performance of these RO systems for a specific end use installation may vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

In addition, please note the following must be provided:

- a. The influent feed water pressure to these RO systems must be ≥ 30 psig.
- b. A comparative product water quality monitor must be installed on each RO system.
- c. An ample supply of nitrate test strips, and a source of ongoing supply of said test strips, must be provided to the business owner; and
- d. The influent water supply to these RO systems must conform to the minimum requirements specified by the mfg.

- The ongoing maintenance of these POU RO systems will be performed by Bohl & Proulx, Curt Boos, 715-723-9655, curt@bohlandproulx.com.

A full size copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. If plan index sheets were submitted in lieu of additional full plan sets, a copy of this approval letter and index sheet shall be attached to plans that correspond with the copy on file with the Department. If these plans were submitted in an electronic form, the designer is responsible to download, print, and bind the full size set of plans along with our approval letter. A department electronic stamp and signature shall be on the plans which are used at the job site for construction. All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation.

In granting this approval the Division of Industry Services reserves the right to require changes or additions should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,


Glen W Schlueter
Plumbing Product Reviewer , Integrated Services
(608)267-1401 , Monday-friday 7:15AM-4:00PM
glen.schlueter@wisconsin.gov

Fee Required \$

This Amount Will Be Invoiced.
When You Receive That Invoice,
Please Include a Copy With Your
Payment Submittal.
WiSMART code: 7657

cc: Donald D Hough, Plumbing Consultant II, (715) 634-4804

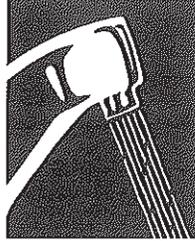
Note: Effective January 1, 2012, all codes under the jurisdiction of the Division of Industry Services (formerly Safety & Buildings) will be modified. Code references with prefixes starting with "Comm" have been replaced with "SPS" to recognize the relocation of the Division of Industry Services from the former Department of Commerce to the Department of Safety & Professional Services. Additionally, all IS (formerly S&B) codes have been renumbered and addressed in a "300" series. For future reference, the Wisconsin Commercial Building Code will be addressed by SPS Chapters 360-366.

Conditionally
APPROVED

DIVISION OF SAFETY AND BUILDINGS

SEE CORRESPONDENCE

BOHL & PROULX



PLUMBING, INC.

November 4, 2014

Department of Safety and Professional Services

Attn: Glen Schlueter

1400 E Washington Ave

PO Box 7162

Madison WI 53702-7162

RECEIVED

NOV 10 2014

INDUSTRY SERVICES

RE: River States Truck and Trailer nitrates

Dear Glen,

We offer a proposal for review to remove/reduce the nitrate levels found in this well.

Overview:

This facility has both men's and women's restrooms and a driver's lounge that has a $\frac{3}{4}$ bath. In all restrooms and lounge, the lavatory faucets are infra-red touch control.

There is an employee break room with a kitchen sink and a faucet and that has hot and cold supply handles and an employee drinking fountain. This area will be referred to as Area A.

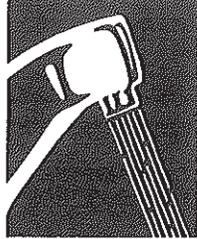
There is a conference room with a bar sink and a faucet that has hot and cold supply handles. There is also a front office drinking fountain located near the conference room. These areas will be referred to as Area B.

The driver's lounge has a bar sink with a faucet that has hot and cold supply handles. This area will be referred to as Area C.

Treatment Proposal:

Area A: Supply and install a Water-Rite POU Eclipse Reverse Osmosis System. This system consists of the following: 15 gallon storage tank, separate faucet located at the kitchen sink and second RO line piped to drinking fountain location.

BOHL & PROULX



PLUMBING, INC.

Area B: Supply and install a Water-Rite POU Eclipse Reverse Osmosis System. This system consists of the following: 3 gallon storage tank and a separate faucet located on the bar sink.

Area C: Supply and install a Water-Rite POU Eclipse Reverse Osmosis System. This system consists of the following: 3 gallon storage tank and a separate faucet located on the bar sink.

Nitrate notification place cards are displayed at all lavatory locations.

Note:

**Water-Rite Reverse Osmosis
Eclipse (POU)
Model # WRO-35 (POU)
Product File #: 20090223**

Thank you for the opportunity to be of service.

Sincerely,



**Curt Boos
Project Manager**



*MP # 682390
11/4/14*

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DIVISION OF SAFETY AND BUILDINGS

SEE CORRESPONDENCE

SBD # 6823010
11/4/14

Water Calc. Worksheet

Three Cold Ro. Drinking Water Stations
Name of Project

INFORMATION REQUIRED TO SIZE WATER SERVICE AND WATER DISTRIBUTION:	
1-	Demand of building in water supply fixture units (WSFU); (WSFU) <u>1.5</u>
1.a.	Demand of building in WSFU converted to Gallons Per Minute: (GPM) <u>1.5</u> (Table 82.40-3)
2-	Elevation difference from main or external pressure tank to building control valve; (feet) _____
3-	Size of water meter (when required) 5/8" _____ 3/4" _____ 1" _____ other _____
4-	Developed length from main or external pressure tank to building control valve; (feet) _____
5-	Low pressure at main in street or external pressure tank. (psi) <u>40</u>

CALCULATE WATER SERVICE PRESSURE LOSS
(unnecessary for internal pressure tanks)

6-	Low pressure at main in street or external pressure tank. (value of # 5 above)	<u>40</u>
7-	Determine pressure loss due to friction in _____ inch diameter water service. Water service piping material is _____ Pressure loss per 100 ft. = _____ X _____ (decimal equivalent of service length, i.e. 65 ft = 0.65)	Subtotal <u>40</u>
8-	Determine pressure loss or gain due to elevation, (multiply the value of # 2 above by .434)	Subtotal <u>40</u>
9-	Available pressure after the bldg. control valve.	Subtotal <u>40</u>

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

B.	Available pressure after the bldg. control valve. (from "9" above)	Value of "B" <u>40</u>
C.	Pressure loss of water meter (when meter is required)	Subtotal <u>40</u>
D.	Pressure at controlling fixture*. (Controlling fixture is: _____). (*Controlling fixture is the fixture with the most demanding pressure to operate properly which includes the following when determining fixture performance; loss due to instantaneous water heaters, water treatment devices, and backflow preventers which serve the controlling fixture.)	Subtotal <u>20</u>
E.	Difference in elevation between building control valve and the <u>controlling fixture</u> in feet; <u>7</u> X .434 psi/ft.	Subtotal <u>3.04</u>
		Subtotal <u>16.96</u>

Water Calc Worksheet

Name of Project _____

F. Pressure loss due to water treatment devices and backflow preventers which serve the controlling fixture. (Water softeners, filters, etc.)

(Pressure loss due to; _____).

F1. WSFU Downstream of Water Treatment Device; 0

F2. Convert wsfu to GPM using Table 82.40-3: _____

or

F3. Convert wsfu to GPM using Table 82.40-3e*
(For individual dwellings only) _____

F4. Refer to manuf. graph to obtain pressure loss:
(If no water treatment device enter "0") _____

Subtotal value of F4 0

Subtotal 16.96

G. Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture;

Hot water WSFU's; _____ convert to; GPM = _____ (Table 82.40-3)
Refer to manufacturer's pressure loss graph to determine loss at the required GPM;

_____ pressure loss.

Subtotal value of "G" NA

Subtotal 16.96

H. Developed length from building control valve to controlling fixture in feet 225 X 1.5

Divide by value "H" 337.50

Subtotal .05

Multiply by: 100

A. Pressure available for uniform loss

"A" = 5

Water distribution piping is: _____

*Note: The "A" value obtained by using Table 82.40-3e can only be used for an individual dwelling when sizing the water treatment device (water softeners, etc) and no hose bibbs, hydrants, or high flow fixtures are being served by the water treatment device.

Note: High flow fixtures are defined as fixtures that exceed a flow rate of 4 gpm @ 80 psi and water velocity not exceeding 8 ft. per second.

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SEE CORRESPONDENCE