



Oregon

Kate Brown, Governor

Department of Environmental Quality
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TTY 711

June 17, 2016

Joe Soulia
Orenco Systems, Inc.
814 Airway Avenue
Sutherlin, OR 97479

RE: AdvanTex[®] AX-100 Mode 3 with UV

You applied to Oregon Department of Environmental Quality to list the above-referenced product as an approved Alternative Treatment Technology. DEQ has reviewed your application, plans, specifications, and other required exhibits for the AdvanTex[®] AX-100 Mode 3 with UV disinfection. The system's design flow rating is up to 2,500 gallons per day and your application was submitted to list as a treatment standard 2 system.

You provided third party NSF/ANSI testing data from a certification organization whose accreditation is specific to onsite wastewater treatment products certifying the product complies with all applicable DEQ rules and regulations. DEQ has reviewed these materials for compatibility with the standards and criteria found in Oregon Administrative Rule 340-071-0345. I am pleased to advise you that DEQ has found the following ATT system manufactured by Orenco Systems, Inc. to meet the approval criteria for **Treatment Standard 2** when used as part of an onsite wastewater treatment system in Oregon:

- AdvanTex[®] AX-100 Mode 3 (2,500 GPD) with ultraviolet disinfection

Orenco Systems, Inc. is authorized to manufacture, market, and distribute these ATTs for use with commercial facilities in Oregon so long as the following conditions are met:

1. The ATT must be manufactured in compliance with DEQ's rules and the plans and design specifications approved by DEQ. Alteration of the ATT system design that might affect system performance must be approved by an ANSI accredited, third-party testing and certification organization and DEQ.
2. The approved version(s) of the plans are labeled AdvanTex[®] AX-100 Mode 3 with UV disinfection and are dated June 17, 2016.
3. The ATT unit must be preceded by a properly sized septic tank, dosing septic tank approved for use in Oregon.
4. In the event of a failure of electrical or mechanical components critical to the treatment process, the control panel must lockout effluent pump operation to prevent untreated or partially treated effluent from discharging to the absorption area. An audible and visual

alarm must activate in the event of electrical, mechanical equipment or hydraulic malfunction of the system.

5. You must train and certify maintenance providers on system maintenance for these ATTs. Individuals installing your system, and regulators in the county of installation, must be trained prior to installation of your products in Oregon, in accordance with the approved plan included in your application.
6. As the Manufacturer of these products, it is your responsibility to assure that each assembled ATT delivered to the construction site is watertight. Assurance must be achieved by periodic testing of the ATT products for watertightness at the manufacturing facility.
7. Service contracts and inspection / service visits must meet or exceed the requirements of OAR 340-071-0345(14).
8. Unless otherwise authorized by DEQ, Orenco Systems, Inc. must submit an annual manufacturer report. The report must include, but is not limited to:
 - a. A current list of each ATT sold in the State of Oregon for the reporting period, including the model number, serial number, and the property address where the ATT is located;
 - b. A current list of all maintenance providers certified by Orenco Systems, Inc. and;
 - c. The annual compliance determination fee in OAR 340-071-0140(5).
9. All other applicable rules and requirements within OAR 340-071 and 073 must be followed.

Pursuant to OAR 340-071-0345(2)(e), DEQ has the authority to remove ATTs from the approved list if DEQ determines that the requirements for approval are no longer satisfied, or if any of the following conditions have occurred:

- Ten percent or more of system under 10 years of age fail;
- The ATT does not produce effluent quality equal to or better than Treatment Standard 2 requirements, under normal operating conditions;
- The manufacturer fails to submit the annual report and annual compliance determination fee by the date specified by DEQ; or
- The manufacturer goes out of business.

Each ATT is only approved for use at locations where the top loading will not exceed the engineering design parameters (in a parking lot, for example). ATTs proposed for use at other locations require an engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.

DEQ's decision to list this ATT as approved does not constitute an endorsement of the product. Moreover, DEQ is not responsible for any situation which may result from improper use or misapplication of your product.

If you have any questions regarding this letter, please contact Randy Trox,
trox.randall@deq.state.or.us, or by phone at (541) 687-7338.

Sincerely,



David Belyea, Manager
Regional Environmental Solutions

Enclosures – approved plans

EC: All Contract County Offices
All DEQ Direct Service Offices

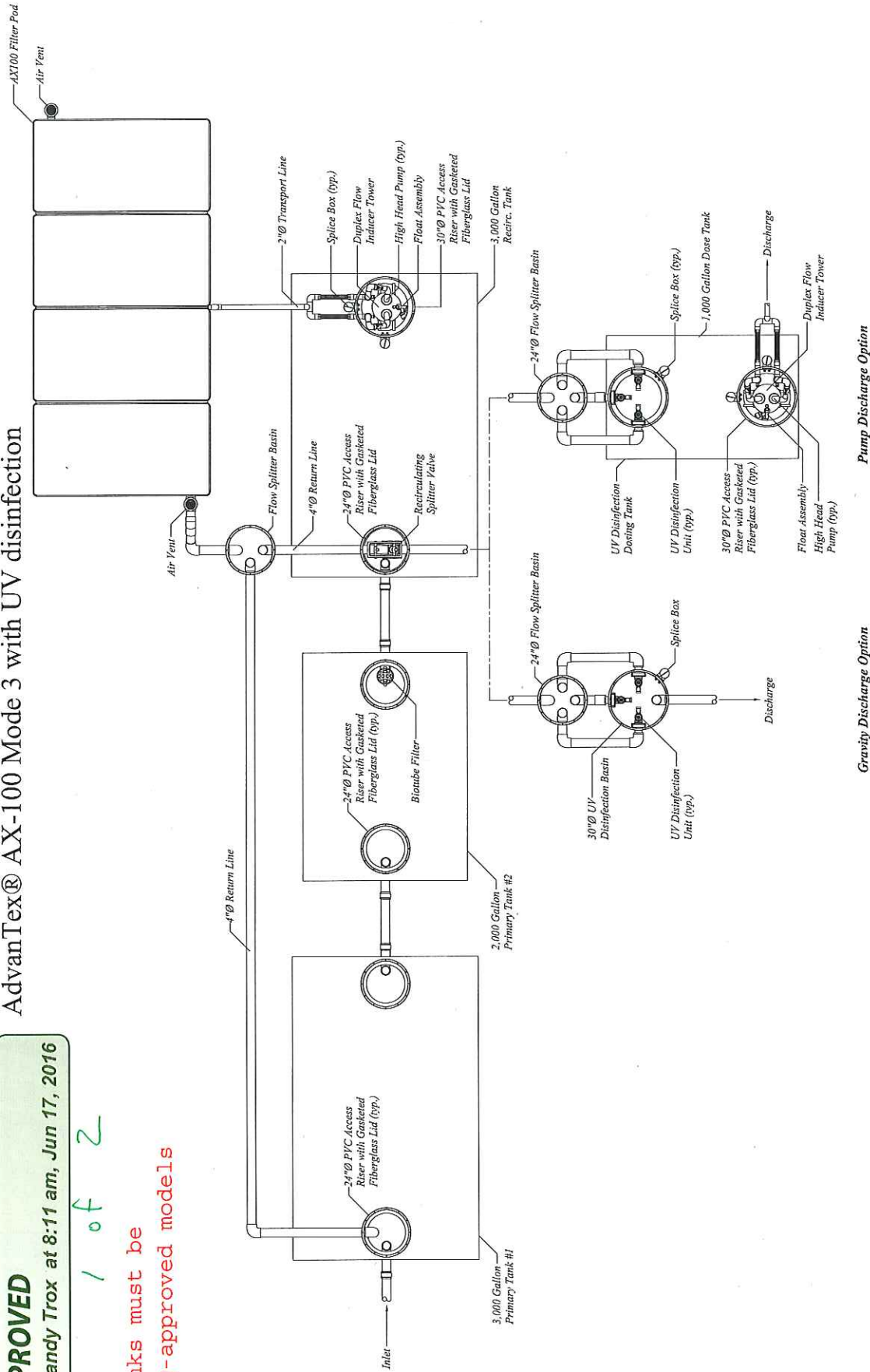
AdvanTex® AX-100 Mode 3 with UV disinfection

APPROVED

By Randy Trox at 8:11 am, Jun 17, 2016

1 of 2

Tanks must be
DEQ-approved models



Gravity Discharge Option

Pump Discharge Option

© Orenco Systems, Inc. Portions or all of this Standard System Configuration Drawing, as appropriate, may be reproduced and integrated into the site-specific layout and configuration of a system by its designer.

Disclaimer: This Standard System Configuration Drawing is provided solely as a design aid, and in no event should it be used as a replacement for site-specific engineering or design of layout and configuration of a particular system. The designer acknowledges that the configuration illustrated herein will perform in compliance with the requirements for any particular site or application.

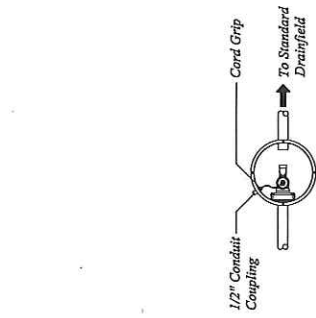
OR AX100 Residential
AdvanTex Treatment System
Mode 3 Plan View

Drawn By: BEN SMITH
Reviewed By: JS
File Name: DR1320-2.PWG

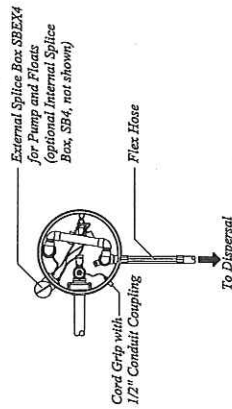
Scale: 1" = 4'-0"
Sheet: 1 OF 1
Rev: 1.0 Date: 5/27/2016

Orenco®
Orenco Systems, Incorporated

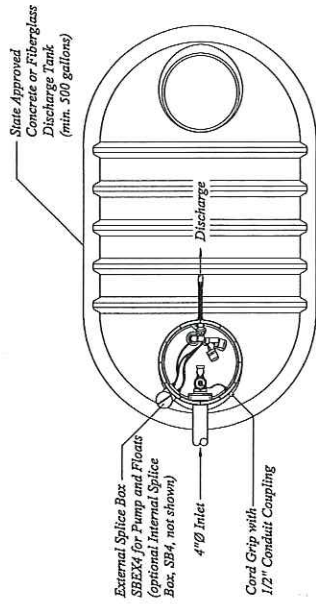
AdvanTex® AX - UV Discharge Options (Example) for Model AXUV-125/31



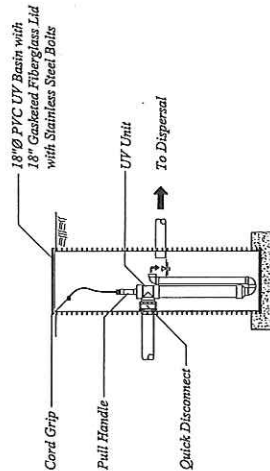
UV Basin: Gravity Discharge Option
Top View



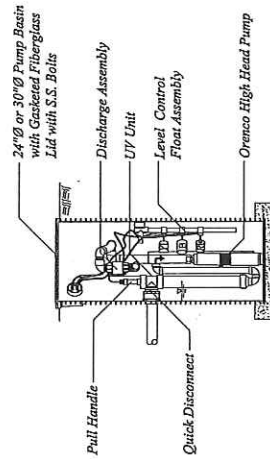
UV Basin: Pump Discharge Option
Top View



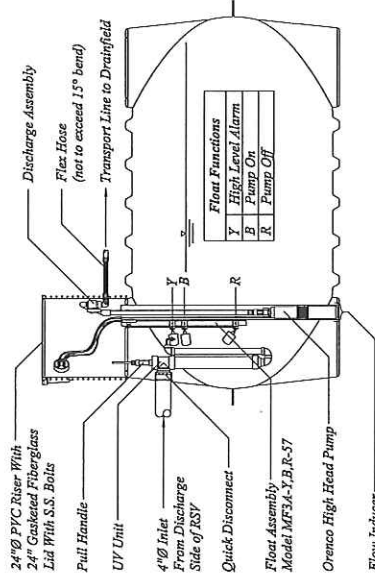
UV Discharge Tank Option
Top View



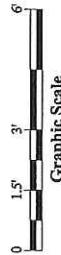
UV Basin: Gravity Discharge Option
Side View



UV Basin: Pump Discharge Option
Side View



UV Discharge Tank Option
Side View



Graphic Scale

UNAUTHORIZED CHANGES & USES
This drawing was prepared by the design engineer for the use of the equipment shown. No changes or modifications shall be made to this drawing without the written approval of the design engineer. All changes to these drawings must be made in writing and must be approved by the design engineer.

PRODUCT CONFIGURATION DRAWINGS



Drawn By: BEN SMITH
Drawn For:

Project: AdvanTex®-AX UV Discharge Options
Title: NDW-ATX-OR-21

Scale: 1" = 3'-0"
Sheet: 1 OF 1
Rev: A-05
Date: 8/02/2011

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