



Oregon

Tina Kotek, Governor

Department of Environmental Quality

Eastern Region Pendleton Office

800 SE Emigrant Avenue, Suite 330

Pendleton, OR 97801

(541) 276-4063

FAX (541) 278-0168

TTY 711

June 7, 2024

Ben Shoval
UCRE, LLC
PO Box 8066
Yakima, WA 98908
ben@shoval.com

RE: WPCF Permit Issuance
File No. 127670
Permit No. 103307
Rodeo City Inn
Umatilla County

Dear Ben Shoval:

DEQ has completed its review of the application to renew your Water Pollution Control Facility (WPCF) permit. Your email accepting the draft permit was received within the 14-day applicant review period. The new WPCF permit has been issued and is enclosed. This permit will be the final action on application number 948193.

You are urged to carefully read the permit and take all possible steps to comply with the conditions established to help protect Oregon's environment. It is important that you be aware of the Annual Compliance Determination fee, payable in advance of each permit year. An invoice will be sent with payment instructions.

This permit is not effective until 20 days after receipt by the permit holder during which time the permit holder has the right to request a hearing before the Environmental Quality Commission or its authorized representative. Any such request shall be made in writing to the Director and shall clearly state the grounds for the request.

If you have any questions, please contact Connie Schrandt, Eastern Region Pendleton Office at connie.schrandt@deq.oregon.gov or (541) 276-8619.

Sincerely,

Sean Rochette

[Sean Rochette \(Jun 7, 2024 09:31 PDT\)](#)

Sean Rochette, Manager
Onsite Program

Enclosure: WPCF permit
WPCF permit evaluation

Ec: Steve Greenslate, Environmental Management Systems, Inc., steve@envmgtsys.com
WPCF Onsite file

WATER POLLUTION CONTROL FACILITIES PERMIT

Department of Environmental Quality
Eastern Region - Pendleton Office
800 SE Emigrant Ave, STE 300, Pendleton, OR 97801
Telephone: (541) 276-4063

Issued pursuant to ORS 468B.050

ISSUED TO:

UCRE, LLC
PO Box 01866
Yakima, WA 98908

SOURCES COVERED BY THIS PERMIT:

<u>Type of Waste</u>	<u>System</u>	<u>Method of Treatment/Disposal</u>
Domestic Sewage	001	Bottomless Sand Filter

SYSTEM TYPE AND LOCATION:
Onsite Wastewater Treatment System

Rodeo City Inn
74149 Barnhart Rd., Pendleton

Located on: Township 3N, Range 31E,
Section 34, Tax Lots 700, 800 and 900 @
Latitude 45.689761, Longitude -118.927847

RIVER BASIN INFORMATION:

Basin: Umatilla
Sub-Basin: 27B - Umatilla
LLID: 1193384459144
River Mile: 44.5
County: Umatilla

Nearest surface stream which would receive waste
if it were to discharge: Roadside ditch

This permit is issued in response to application number 948193 received November 30, 2023 and is based on the Land Use Compatibility Statement issued by Malheur County dated November 20, 2023.

Sean Rochette
Sean Rochette (Jun 7, 2024 09:32 PDT)

Sean Rochette, Manager
Onsite Program

06/07/2024

Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify, or operate a wastewater collection, treatment, control and disposal system in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

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Discharge of untreated or partially treated sewage or septic tank effluent directly or indirectly onto the ground surface or into surface waters constitutes a public health hazard and is prohibited. This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule or standard.

SCHEDULE A**Waste Disposal Limitations**

1. The permittee is authorized to operate and maintain a domestic sewage treatment and disposal facility consisting of a bottomless sand filter system which has been restored and modified in accordance with plans and specifications approved by DEQ and the following conditions:

- a) The average daily sewage flow to the drainfields should be approximately 50 percent of the maximum daily or peak flow to the treatment system. The maximum daily flow must not exceed the following unless otherwise approved by DEQ:

System	Maximum Daily Flow
001	7,140 GPD

- b) The **influent** to the treatment unit must not exceed the following maximum concentrations:

Parameter	Limitation
BOD ₅	300 mg/l
Grease and Oil	25 mg/l
TSS	150 mg/l
TKN	150 mg/l

- d) No discharge to surface waters is permitted. All wastewater must be distributed into a soil absorption facility so as to prevent:

- 1) Surfacing of wastewater on the ground surface, surface runoff or subsurface drainage through drainage tile.
- 2) The creation of odors, fly and mosquito breeding and other nuisance conditions.
- 3) The overloading of land with nutrients or organics.

2. No cooling water, air conditioner water, water softener brine, groundwater, oil, hazardous materials, roof drainage, storm water runoff, or other aqueous or non-aqueous substances which are, in the judgment of DEQ, detrimental to the performance of the system or to groundwater, shall be discharged into the sewage treatment system, unless specifically approved in writing by DEQ.
3. No activities shall be conducted that could cause an adverse impact on existing or potential beneficial uses of groundwater.

SCHEDULE B**Minimum Monitoring and Reporting Requirements****1. System Monitoring Requirements**

The permittee must monitor the operation and efficiency of all treatment and disposal facilities. Sampling and measurements taken as required herein must be representative of the nature of the wastewater, and must be taken at peak usage during operation of the system. Unless otherwise agreed to in writing by DEQ, data collected and submitted must include but not necessarily be limited to the following parameters and minimum frequencies:

a. Maximum Daily Flow

Item or Parameter	Minimum Frequency	Type of Sample
Flow, GPD	Monthly Average	Measurement or calculation based on meter readings
Flow Meter Calibration	Annually	Verification

b. Influent to the Sand Filter Unit

Item or Parameter	Minimum Frequency	Type of Sample
BOD ₅	Annually	Grab
TSS	Annually	Grab
Grease & Oils	Annually	Grab
NH ₃ -N	Annually	Grab
TKN	Annually	Grab

c. Operations and Maintenance Activities

The permittee must record in writing all observations of operation and maintenance activities on a quarterly basis, as required by the DEQ-approved Operation and Maintenance manual.

d. Solids Management

The permittee must maintain a record of the pumping dates and quantity (in gallons), of solids/wastewater pumped, and what licensed sewage disposal service company pumped the solids/wastewater.

2. Reporting Procedures

Monitoring, maintenance practices, solids handling, and results must be reported on DEQ-approved forms. The reporting period is the calendar year. Reports must be submitted to the DEQ office listed on the face page of this permit by **February 15 following the reporting period.**

SCHEDULE D**Special Conditions****1. Within 60 days of modifying the OWTS the permittee must submit to DEQ the following:**

- a. The final as-built drawing of the system modifications, as constructed,
- b. Written certification from the system designer that all work conformed to the approved plans and to any DEQ-approved changes and

- c. A copy of the signed service provider contract described in item 3 below.
2. The permittee must maintain on file a complete Operation and Maintenance Plan approved by DEQ. The permittee must operate, manage and implement preventative maintenance practices or corrections at the frequencies required in DEQ-approved plan. DEQ must approve any changes to the plan.
3. The permittee must maintain a contract with a service provider who is acceptable to DEQ. The contract must be signed and written to ensure that the OWTS will be properly operated and maintained. The permittee must provide a copy of the contract to DEQ. If the permittee changes service providers, DEQ must be notified and be provided with a copy of the new contract within 30 days of the change.
4. In the event that a concentration limit, as specified in Schedule A, to the drainfield is exceeded, the permittee must within 14 working days of receipt of the analytical results:
 - a. Report the results to DEQ;
 - b. Resample to verify the results;
 - c. In the event that resampling confirms an influent concentration limit violation, sample the wastewater stream following the septic tanks or pretreatment system prior to the recirculating gravel filter or other treatment unit for BOD5, TSS, oil and grease, NH3-N and TKN and;
 - d. Within 30 days of confirmation, the permittee must submit to DEQ a corrective action plan to reduce the waste strength so that the concentration limits are not violated. Upon DEQ approval, the permittee must implement the plan.
5. A licensed sewage disposal service, as defined in OAR 340-071-0100, must manage all septage/sludge.
6. The existing and replacement sand filter areas must not be subject to activities that would, in the opinion of DEQ, adversely affect the soil or the functioning of the system. This includes, but is not limited to, vehicular or animal traffic, filling or cutting, covering the area with asphalt or concrete, or subjecting the area to excessive saturation.
7. The permittee shall not be required to perform a formal hydrogeologic characterization or preliminary groundwater monitoring during the term of this permit provided that the facilities are operated in accordance with the permit conditions, and there are no apparent adverse groundwater quality impacts (complaints or other indirect evidence) resulting from the facility's operation. If warranted, DEQ may evaluate the need for or require a full assessment of the facility's impact on groundwater quality and if necessary may reopen this permit to include groundwater monitoring parameters.

SCHEDULE F

WPCF General Conditions

SECTION A. STANDARD CONDITIONS

1. Duty to Comply with Permit

The permittee must comply with all conditions of this permit. Failure to comply with any permit condition is a violation of Oregon Revised Statutes (ORS) 468B.025 and grounds for an enforcement

action. Failure to comply is also grounds for the Department to modify, revoke, or deny renewal of a permit.

2. Property Rights and Other Legal Requirements

Issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, or authorize any injury to persons or property or invasion of any other rights, or any infringement of federal, tribal, state, or local laws or regulations.

3. Liability

The Department of Environmental Quality or its officers, agents, or employees may not sustain any liability on account of the issuance of this permit or on account of the construction or maintenance of facilities or systems because of this permit.

4. Permit Actions

After notice by the Department, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including but not limited to the following:

- a. Violation of any term or condition of this permit, any applicable rule or statute, or any order of the Commission;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.

5. Transfer of Permit

This permit may not be transferred to a third party without prior written approval from the Department. The Department may approve transfers where the transferee acquires a property interest in the permitted activity and agrees in writing to fully comply with all the terms and conditions of this permit and the rules of the Commission. A transfer application and filing fee must be submitted to the Department.

6. Permit Fees

The permittee must pay the fees required by Oregon Administrative Rules.

SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

At all times the permittee must maintain in good working order and properly operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to comply with the terms and conditions of this permit.

2. Standard Operation and Maintenance

All waste collection, control, treatment, and disposal facilities or systems must be operated in a manner consistent with the following:

- a. At all times, all facilities or systems must be operated as efficiently as possible in a manner that will prevent discharges, health hazards, and nuisance conditions.
- b. All screenings, grit, and sludge must be disposed of in a manner approved by the Department to prevent any pollutant from the materials from reaching waters of the state, creating a public health hazard, or causing a nuisance condition.
- c. Bypassing untreated waste is generally prohibited. Bypassing may not occur without prior written permission from the Department except where unavoidable to prevent loss of life, personal injury, or severe property damage.

3. Noncompliance and Notification Procedures

If the permittee is unable to comply with conditions of this permit because of surfacing sewage; a breakdown of equipment, facilities or systems; an accident caused by human error or negligence; or any other cause such as an act of nature, the permittee must:

- a. Immediately take action to stop, contain, and clean up the unauthorized discharges and correct the problem.
- b. Immediately notify the Department's Regional office so that an investigation can be made to evaluate the impact and the corrective actions taken, and to determine any additional action that must be taken.
- c. Within 5 days of the time the permittee becomes aware of the circumstances, the permittee must submit to the Department a detailed written report describing the breakdown, the actual quantity and quality of waste discharged, corrective action taken, steps taken to prevent a recurrence, and any other pertinent information.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or liability for failure to comply.

4. Wastewater System Personnel

The permittee must provide an adequate operating staff that is duly qualified to carry out the operation, maintenance, and monitoring requirements to assure continuous compliance with the conditions of this permit.

SECTION C. MONITORING AND RECORDS

1. Inspection and Entry

The permittee must at all reasonable times allow authorized representatives of the Department to:

- a. Enter upon the permittee's premises where a waste source or disposal system is located or where any records are required to be kept under the terms and conditions of this permit;

- b. Have access to and copy any records required by this permit;
- c. Inspect any treatment or disposal system, practices, operations, monitoring equipment, or monitoring method regulated or required by this permit; or
- d. Sample or monitor any substances or permit parameters at any location at reasonable times for the purpose of assuring permit compliance or as otherwise authorized by state law.

2. Averaging of Measurements

Calculations of averages of measurements required for all parameters except bacteria must use an arithmetic mean; bacteria must be averaged as specified in the permit.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures specified in the most recent edition of **Standard Methods for the Examination of Water and Wastewater**, unless other test procedures have been approved in writing by the Department and specified in this permit.

4. Retention of Records

The permittee must retain records of all monitoring and maintenance information, including all calibrations, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. The Department may extend this period at any time.

SECTION D. REPORTING REQUIREMENTS

1. Plan Submittal

Pursuant to Oregon Revised Statute 468B.055, unless specifically exempted by rule, construction, installation, or modification of disposal systems, treatment works, or sewerage systems may not commence until plans and specifications are submitted to and approved in writing by the Department. All construction, installation, or modification shall be in strict conformance with the Department's written approval of the plans.

2. Change in Discharge

Whenever a facility expansion, production increase, or process modification is expected to result in a change in the character of pollutants to be discharged or in a new or increased discharge that will exceed the conditions of this permit, a new application must be submitted together with the necessary reports, plans, and specifications for the proposed changes. A change may not be made until plans have been approved and a new permit or permit modification has been issued.

3. Signatory Requirements

All applications, reports, or information submitted to the Department must be signed and certified by the official applicant of record (owner) or authorized designee.

SECTION E. DEFINITIONS

1. *BOD₅* means five-day biochemical oxygen demand.
2. *TSS* means total suspended solids.
3. *FC* means fecal coliform bacteria.
4. *NH₃-N* means Ammonia Nitrogen.
5. *NO₃-N* means Nitrate Nitrogen.
6. *NO₂-N* means Nitrite Nitrogen.
7. *TKN* means Total Kjeldahl Nitrogen.
8. *Cl* means Chloride.
9. *TN* means Total Nitrogen.
10. "*Bacteria*" includes but is not limited to fecal coliform bacteria, total coliform bacteria, and *E. coli* bacteria.
11. *Total residual chlorine* means combined chlorine forms plus free residual chlorine.
12. *mg/l* means milligrams per liter.
13. *ug/l* means micrograms per liter.
14. *kg* means kilograms.
15. *GPD* means gallons per day.
16. *MGD* means million gallons per day.
17. *Grab sample* means an individual discrete sample collected over a period of time not to exceed 15 minutes.
18. *Composite sample* means a combination of samples collected, generally at equal intervals over a 24-hour period, and based on either time or flow.
19. *Week* means a calendar week of Sunday through Saturday.
20. *Month* means a calendar month.
21. *Quarter* means January through March, April through June, July through September, or October through December.



State of Oregon Department of Environmental Quality

Water Pollution Control Facilities Permit Evaluation

June 7, 2024

Permittee:	UCRE, LLC PO Box 8066 Yakima, WA 98908 File Number: 127670		
Source Contact:	Ben Shoval	Telephone Number: (509) 494-3956	
Source Location:	Rodeo City Inn 74149 Barnhart Rd., Pendleton		
County:	Umatilla		
Permit Writer:	Connie Schrandt	Eastern Region, Pendleton Office	
Proposed Action:	New	Application No.: 948193	Date Received: 11/30/2023

Introduction

Under Oregon Administrative Rule Chapter 340 Division 071 Section 0130(15) [OAR 340-071-0130(15)], any system or combination of systems located on the same property or serving the same facility with a total sewage flow design capacity greater than 2,500 gallons a day shall be constructed and operated under a renewable WPCF permit issued pursuant to OAR 340-071-0162 from DEQ. It further states that WPCF permits are required for facilities that exceed residential waste strength as defined in OAR 340-071-0100 and aerobic systems that do not meet the requirements of OAR 340-071-0220 and 340-071-0345. Other systems that are not described in OAR 340-071 and 073 may also be considered.

OAR 340-071-0130(16) states that owners of existing systems, except holding tanks, are not required to apply for a WPCF permit until such time as a system repair, correction, alteration, or expansion is necessary.

DEQ proposes to issue a new WPCF permit for Rodeo City Inn located near Pendleton. The onsite wastewater treatment system (OWTS) will be modified to serve the existing 22-room hotel, an apartment/storage building with up to 2 bedrooms and a trailer sales & service building. Projected sewage flows from these facilities are taken directly from Table 2, Quantities of Sewage Flows in OAR 340-071-0220 for a combined or total peak sewage flow of 7,140 gallons per day (gpd) and a monthly average sewage flow of half the peak flow, or 3,570 gpd.

The proposed OWTS will utilize existing sewage collection pipes and septic tanks, including modification of the 1000-gallon grease interceptor to serve as a 1000-gallon septic tank for the apartment/storage building. Septic tank effluent will be pumped through the existing pressure transport pipe to the existing 9,000-ft² bottomless sand filter for secondary treatment and disposal.

Facility Description

Total Projected Daily Sewage Flow of Facility	7,140 gallons per day (gpd)
Number of Systems	One
Water Supply	Well (OR41 91241)

System #001

Date Constructed	1975 (approx.)
System Type	Bottomless Sand Filter
Projected Daily Sewage Flow	7,140 gpd
Septic Tank Size	20,000 gallons
Type of DF	Bottomless Sand Filter
Drainfield (DF) sizing criteria	1.23 gallons/ ft ² / day
Square Feet of DF	9,000
Facilities Served	Hotel with 22 individual rooms at 120 gpd/room, a storage building with 2-bedroom apartment at 600 gpd and a trailer sales & service building with restrooms at 300 gpd.

Unique Operating Conditions

- None

Groundwater

- A detailed evaluation of potential impacts to groundwater was submitted to DEQ for hydrogeological review. Preliminary groundwater assessment of the potential nitrate impact from the OWTS' discharge to both shallow and deep aquifers in the area using the Washington State Department of Heath large onsite septic system (LOSS) nitrate balance model were reviewed along with information provided with the evaluation and data gathered from literature review of aquifer characteristics. The results of the groundwater study indicate nitrogen concentrations in shallow groundwater may increase by as much as 6.9 mg/l at or near the sand filter and in deep groundwater may increase slightly from background, or from 3.09mg/l to 3.30 mg/l. Effluent discharged from the OWTS is not expected to exceed the nitrate MCL of 10 mg/L in either the shallow or the deep groundwater aquifers.

Compliance History

- This is a new source with no compliance history.

PERMIT DISCUSSION

Schedule A – Waste Disposal Limitations

- The Maximum Daily Peak flow and Influent maximum concentration limits are listed for the system.
- All wastewater must be distributed into a soil absorption facility.
- No substances that would be detrimental to the system or groundwater are to enter the system.

- No activities shall be conducted that could cause an adverse impact to potential beneficial uses of groundwater.

Schedule B – Minimum Monitoring and Reporting Requirements

- Monitoring parameters and frequencies are based on DEQ's monitoring matrix.
- An annual monitoring and maintenance report is required to be submitted February 15 of each year.

Schedule D – Special Conditions

- Within 60 days of completing modifications to the OWTS, the permittee must submit a signed service contract with a certified maintenance provider as defined in OAR 340-071-0100 along with the as-built drawing of the OWTS and certification from the system designer that the system was modified as designed and is fully functional.
- Permittee is required to follow the DEQ-approved Operation and Maintenance Plan.
- The wastewater treatment and dispersal system must be maintained by a maintenance provider certified as defined in OAR 340-071-0100.
- Reporting and resampling required within 14 days when there is a concentration limit violation.
- All septage/sludge must be managed by a licensed pumper.
- The drainfield and replacement areas must not be subject to activities that could adversely affect the soil or the system.
- The system must not cause any adverse impact to groundwater.

Schedule F – General Conditions

- This Schedule contains General Conditions and Definitions that are applicable to all WPCF permits in Oregon.

Public Participation

- A 30-day public notice is not required for systems with a design flow of less than 20,000 gallons per day pursuant to OAR 340-045-0027(2)(a)(C).



Oregon

Tina Kotek, Governor

Department of Environmental Quality

Eastern Region Pendleton Office

800 SE Emigrant Avenue, Suite 330

Pendleton, OR 97801

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TTY 711

June 7, 2024

Steve Greenslate
Environmental Management Systems, Inc.
4080 SE International Way, Suite B112
Milwaukie, OR 97222
steve@envmgtsys.com

RE: Facility: Rodeo City Inn
File No. 127670
WQ – Umatilla County
Project Title: Onsite Wastewater Treatment System Modifications

Dear Steve Greenslate:

DEQ has reviewed the plans for proposed modifications and improvements to the existing commercial bottomless sand filter wastewater treatment system received on November 29, 2023, and the revisions received on May 31, 2024, for the Rodeo City Inn facilities located on Barnhart Road north of Pendleton. A Land Use Compatibility Statement accompanied the submittal.

The Rodeo City Inn facilities include a 22-room hotel, a 2-bedroom apartment and storage building and a trailer sales office and lot. Proposed modifications to the existing 9,000 ft² bottomless sand filter include reconfiguring the pressure manifolds into 6 zones and adding two index valves to reduce flow to each zone to less than 1300 gallons per day. The plans also describe additional maintenance of the sand filter needed for system operation. Modifications to the existing commercial bottomless sand filter system are authorized under WPCF Permit No. XXXXXX which was issued on June 7, 2024, with an effective date of June 27, 2024. The system is approved for a maximum peak daily flow of 7,140 gallons per day and an average daily flow of about 3,570 gpd.

DEQ has completed its review of your proposed project as required by Oregon Administrative Rule 340-071-0130(18) and 340-052. Based on this review, the revised plans have been stamped and dated June 7, 2024, and are hereby approved subject to the following provisions:

1. The modifications of the system must follow the approved plans dated June 7, 2024, including any DEQ corrections and notations on them. DEQ must approve any additional substantial changes.

2. A DEQ licensed installer as per OAR 340-071-0162(10) must perform all system construction.
3. The wastewater treatment and dispersal system must be maintained by a maintenance provider certified as defined in OAR 340-071-0100.
4. All material and equipment including, but not limited to, tanks, pipe, fittings, solvents, pumps, controls, valves, etc., must be installed, and constructed in accordance with manufacturer's minimum specifications.
5. All tanks and treatment units must be protected from vehicular traffic unless they are designed and equipped to handle the additional traffic load.
6. The existing and future replacement drainfield areas must not be subject to vehicular traffic, covering with asphalt, concrete or large stored items, cutting and filling or any activity that would adversely affect the soil or the functioning of the system.
7. The system designer must inspect all phases of the construction of the system and provide documentation indicating the results of the inspection. The inspection documentation must include any construction deficiencies noted and what was required to bring construction into compliance with DEQ-approved plans. Subsequent inspection documentation must verify that the corrections have been completed. Within 60 days of completing construction the permittee must provide to DEQ written certification from the system designer, that the system has been constructed and tested in accordance with DEQ-approved plans. The attached form, "Inspection and Certification of Proper Construction", must be used.
8. Prior to commencing operation and/or backfilling of the system, the permittee must notify DEQ or Agent, in writing, that construction of the system has been completed, so that DEQ or Agent may conduct a final inspection.
9. Within 60 days after completing construction, the permittee must submit as-built drawings from the system designer. A DEQ-approved O&M manual was submitted with the construction plans, the permittee must submit any updates for the affected elements of the O&M Manual.
10. By no later than one month after commencing operation of the system, the permittee must provide affirmation from the designer that the facility is mechanically operating as intended based upon actual field inspection at the end of construction and start of operations to DEQ. Any negative findings must be reported in writing to DEQ, and any necessary corrections proposed by the permittee.
11. The final project as constructed must comply with all applicable building, electrical, fire mechanical, plumbing, and safety codes.

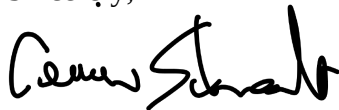
12. This plan approval is valid for one year. Technologies, materials, and standards change so it is important to keep construction approvals up to date. If construction has not commenced within one year, plans must be resubmitted along with the appropriate fee for approval unless waived by DEQ. A valid Land Use Compatibility Statement from the local land use agency as well as a valid building permit from the local Building Codes jurisdiction will also be required.

Approval of plans means that DEQ has reviewed favorable the estimates, assumptions and the design presented in the specific project plans for reasonableness and practicality consistent with process technology and for the likelihood that the project may, if operated and maintained as proposed, achieve or maintain the desired result. Plan approval by DEQ does not warrant that the facility will meet expectations. Should the completed work fail to achieve design effluent parameters, the permittee may be required to provide additional facilities or processes.

The permittee is responsible for ensuring that the conditions of approval are met. Submittals should be directed to the DEQ office as listed on the face page of your permit. Failure to comply with the conditions in this letter may be cause for DEQ to initiate enforcement action that could result in civil penalties.

Please notify us of the preconstruction meeting between the contractor and designer so that we may attend. It is likely that DEQ staff will visit the construction site during and after construction. If you have any questions regarding this letter of final approval, feel free to contact me by phone at (541) 278-4619 or email to connie.schrandt@deq.oregon.gov.

Sincerely,



Connie Schrandt, WWS, CPSS
Natural Resource Specialist
Eastern Region - Pendleton

Enc. DEQ-approved plans

ec: Ben Shoval, UCRE LLC ben@shoval.com
WPCF Onsite file

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Project Title: Rodeo Inn File Number: 12760

Project Description

- New permit application for a Bottomless Sand Filter system.
- System components are a 1,000 gallon grease interceptor at the restaurant building, a 20,000 gallon septic tank, a 1000 gallon surge tank, a 600 gallon pump basin and a 9,000 sqft Bottomless Sand Filter.
- Facilities are a 52 unit hotel, a trailer sales office and lot, and a storage/apartment building (previously a restaurant). These facilities were permitted at 11,000 gallons per day (GPD).
- The hotel (6240gpd) is undergoing extensive remodeling, the trailer sales business is open (300gpd) and the restaurant has been dismantled with the structure now used as an apartment and storage facility (600gpd). The total flow from all facilities will not exceed 7140 gallons of residential strength wastewater per day to the sand filter.
- Sewage from all three facilities flows by gravity to the 20,000 gallon septic tank. Septic tank effluent will be time dosed to the 9000 square foot Bottomless Sand Filter for treatment and dispersal.

System Modifications

- The existing Grease Interceptor to be repurposed as a septic tank serving the apartment/storage building. Inlet and outlet baffles and access lid repairs are needed. Tank has been pumped, appears watertight, and otherwise is in good condition.
- The existing pumps were tested, and one malfunctioning pump replaced with an identical model. (Goulds WE3885 65gpm @ 46ft TDH). See page 7 for data sheet.
- The pump discharge assemblies were re-plumbed with shut offs and quick disconnects all now within 12" of the pump basin top edge. See attached photos.
- The existing outdated and non-functional control panel has been replaced with a new Orenco duplex time dosing panel. See page 7 for panel quote.
- Prior to this application, the sand filter lateral ends were located and excavated, the laterals jetted, and the ends fitted with flush ports and valve boxes for future maintenance. See attached photos
- The Bottomless Sand Filter will be modified to have six zones to reduce the flow to each zone to less than 1300 gallons per day. This will be achieved by using indexing valves and modifying the two sand filter manifolds from single zones to three zones each.
- We propose annual sampling of the influent to the sand filter to ensure compliance with residential strength waste parameters and monitoring of wells placed within the perimeter of the sand filter.

Site and Soils

- A Hydrogeologic study concluded that the sand filter effluent would provide adequate treatment and that the effluent disposed of at this site would not likely affect the local aquifer. This study was approved by David Cole, RG, DEQ Senior Hydrologist.
- The site is adjacent to and east of the Umatilla Aquifer Protection Area.
- The facilities are served by a shared private well.
- There are easements recorded with Umatilla County allowing access and shared ownership of the Sewage Treatment Facility and well among the three tax lots. See Umatilla County Documents 2024-0002392 and 2024-0002391.
- Soils in the disposal area are mapped as 80B-Ritzville silt loam and 114B-Walla Walla silt loam.

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. (Note: the telephone number for the Oregon Utility Notification Center is (503) 232-1987).

CALL BEFORE YOU DIG!

Permitting Agency:

Oregon Department of Environmental Quality, Eastern Region

800 SE Emigrant Ave., Suite 330

Pendleton, OR 97801

(541) 278-4619

RODEO INN UCRE, LLC

T: 3N, R:31E, SEC: 3, TL: 700,800,900 EMS (22-0080)

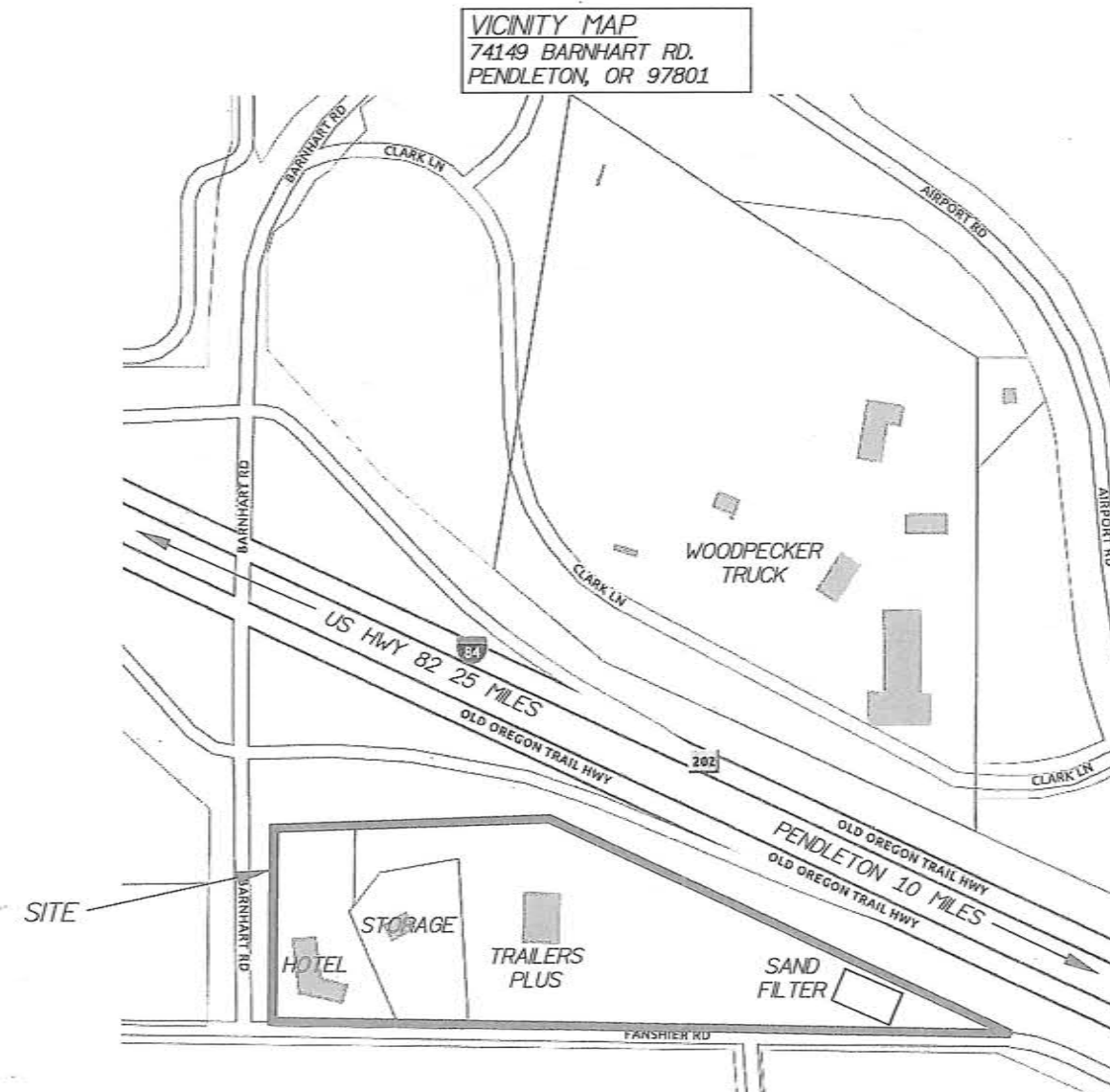
74149 Barnhart Road

Pendleton, OR 97801

REVISED
5-31-2024



APPROVED
Connie M. Schrandt, W.W.S.
Lic. No. EH-W-760756
6/7/24



22-0080

11/13/2023

Scale: none

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Cover Sheet

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5-31-2024



90' x 100' BOTTOMLESS SAND FILTER
SEE PAGE 4 FOR DETAILS

52 UNIT HOTEL
120 GALLONS/UNIT/DAY

6240 GALLONS/DAY
RESIDENTIAL STRENGTH
WASTE FROM GUEST
ROOMS AND LAUNDRY

FORMER CAFE
NOW APARTMENT AND
STORAGE FACILITY

600 GALLONS/DAY
RESIDENTIAL STRENGTH
WASTE FROM
APARTMENT AND
FACILITY RESTROOM

TRAILERS PLUS
LIGHT UTILITY AND CARGO
TRAILER PARTS, SALES AND
SERVICE

300 GALLONS/DAY
RESTROOM WASTE

EXISTING
1000 GALLON
TRASH TANK

INFLUENT:
RESIDENTIAL
STRENGTH
WASTEWATER
EXPECTED

7140
GPD

20,000 GALLON SEPTIC
TANK (2.8 DAYS
DETENTION)

NEW DUPLEX
CONTROL PANEL

1600 GALLON
SURGE/DOSING
TANK

EXISTING
FORCE
MAINS

DUPLEX
ALTERNATING
TIME DOSED
PUMPS

SAMPLE POINT
MAXIMUM INLUENT
CHARACTERISTICS:
BOD5- 300MG/L
TSS-150MG/L
TKN-150MG/L
G&O-25MG/L

3-WAY
AUTO
INDEX
VALVES

MONITORING WELLO

MONITORING WELLO

SAND FILTER TO BE
MODIFIED BY DIVIDING EACH
OF THE TWO EXISTING
CELLS INTO 3 ZONES EACH
USING A NEW AUTOMATIC
INDEXING VALVE.

EACH ZONE LIMITED TO 1190
GALLONS PER DAY.
EIGHT LATERALS PER ZONE
WITH 18 1/8" ORIFICES PER
LATERAL. 5 FOOT MINIMUM
RESIDUAL HEAD AT EACH
ORIFICE WITH LESS THAN
10% HEAD VARIATION
BETWEEN ANY TWO.
SEE PAGE 4 FOR DETAILS

NOTE:
24 MINUTE CYCLES WILL ENSURE
THAT EACH ZONE IS DOSED
MULTIPLE TIMES PER DAY IN
VARYING FLOW CONDITIONS WHILE
NOT EXCEEDING 10% OF DAILY
FLOW PER DOSE AS REQUIRED BY
340-071-0295(3)(g)(D)

INITIAL TIMER SETTINGS FOR
7140GPD PEAK FLOW:
7140GPD/6 ZONES=1190GPD/ZONE
1190x 0.1= 119.0GAL/DOSE
@62.3GPM= 1.91 MIN/DOSE
USE:
1.83 MIN "ON"
(1:50 MIN)=114GAL/DOSE
22.17 MIN "OFF"
(22:10 MIN)

FOR AVG. 3570GPD FLOW:
3570GPD/6 ZONES= 595GPD/ZONE
10% OF 595= 59.5GAL/DOSE
USE:
1 MIN "ON"= 62.3GAL/DOSE
23 MIN "OFF"

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Page 2

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System Schematic

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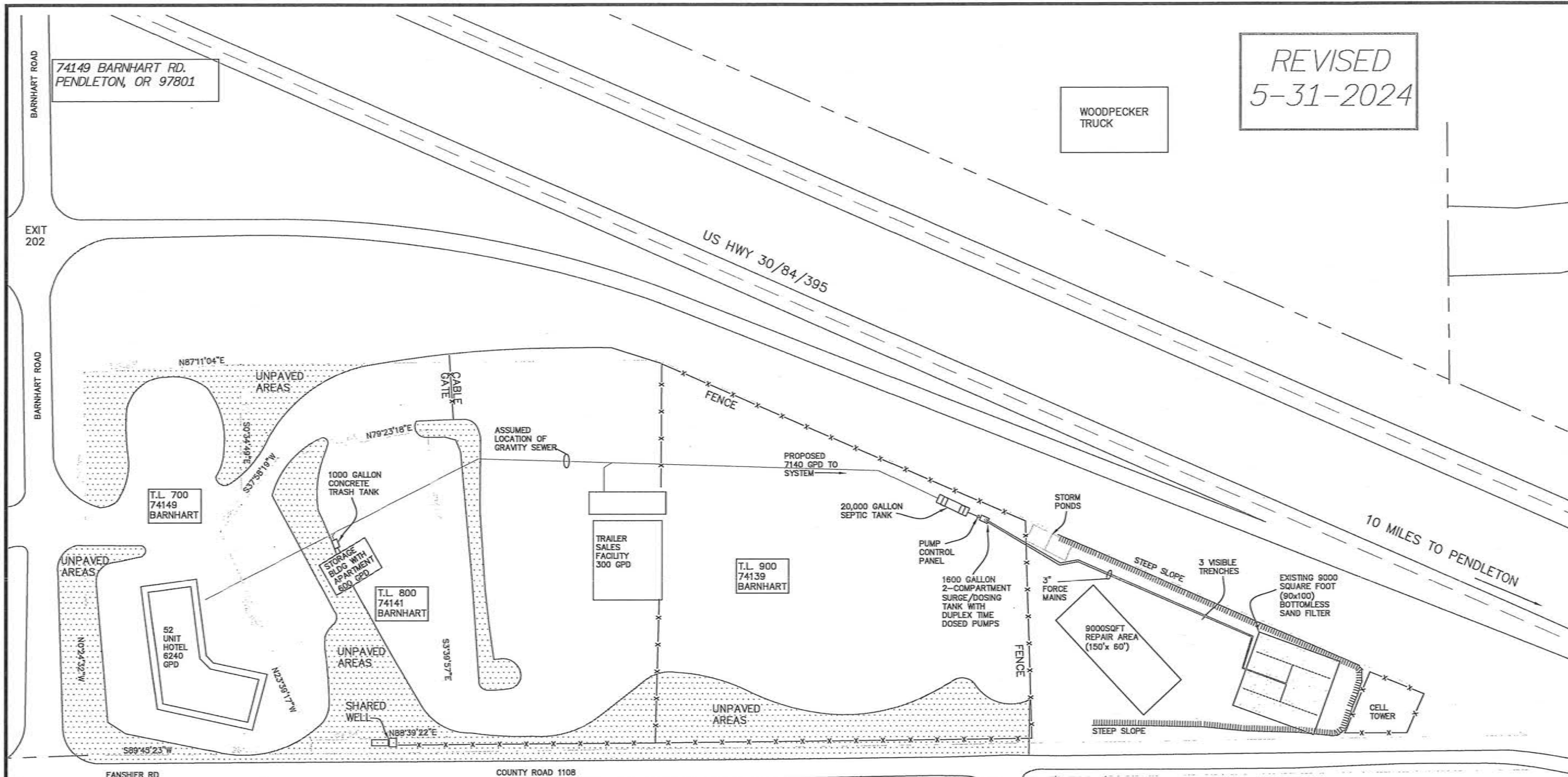
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SECTION CORNER

0 40 80 160

SCALE 1"= 80'

IF THIS BAR DOES NOT MEASURE 2" THEN
DRAWING IS NOT TO SCALE

THIS DOCUMENT IS NOT A SURVEY.
LOCATIONS OF SITE FEATURES ARE
APPROXIMATE. BEARINGS AND DISTANCES
BASED ON DEED DESCRIPTION



APPROVED

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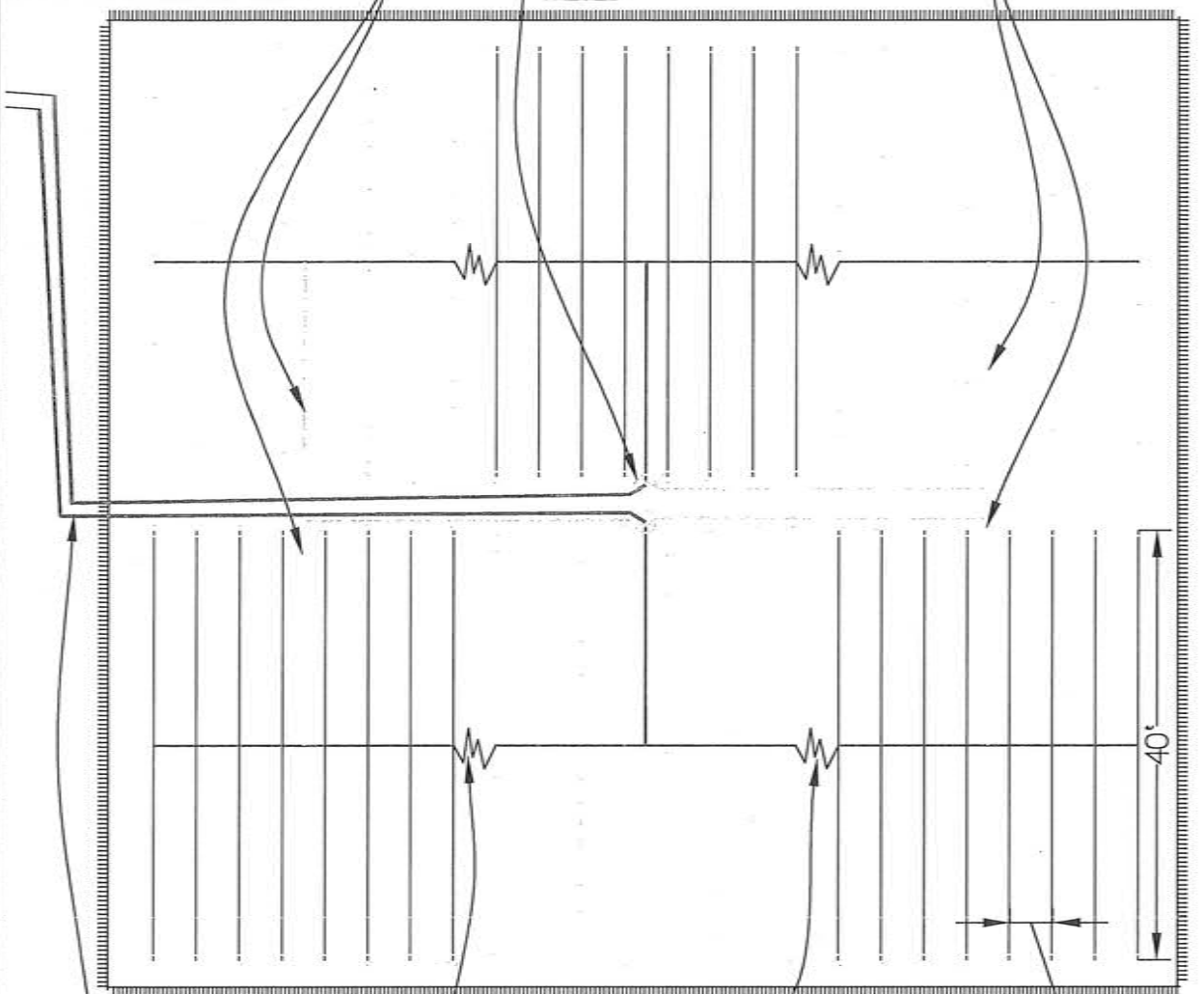
UCRE, LLC	22-0080	Page 3
T. 3N, R.31E, Sec 34, T.L. 700 ,800, 900	11/13/2023	Scale: 1"= 80'
Site Plan		
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74149 BARNHART RD.
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NEW 2" PVC
SUPPLY LINES

NEW 3-WAY
HYDROTEK
VALVES

NEW 2" PVC
SUPPLY LINES



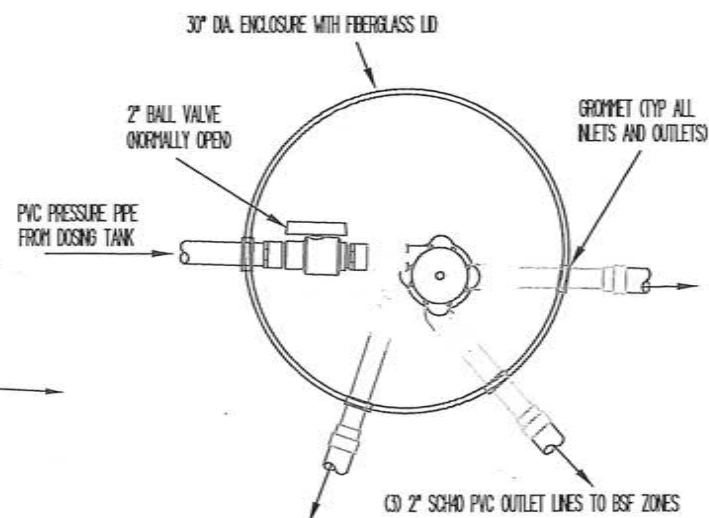
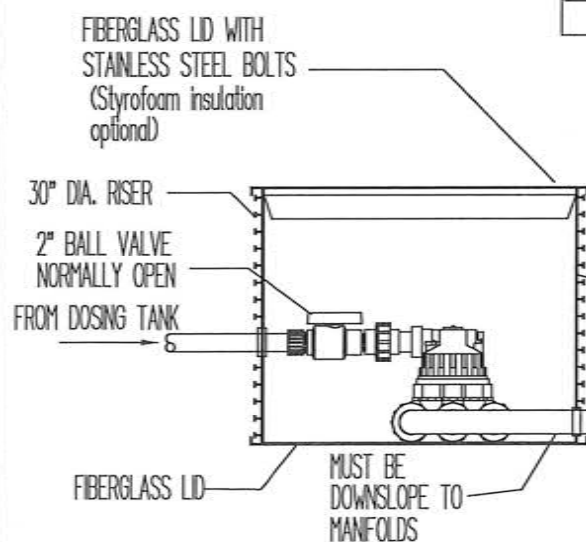
EXISTING 3"
PVC FROM
DOSING TANK
DUPLEX
PUMPS

CUT AND CAP EXISTING
MANIFOLDS TO CREATE 6 CELLS
OF 8 LATERALS EACH

90' x 100' BOTTOMLESS SAND
FILTER

48" TYP.

V6403 DISTRIBUTION VALVE
2 REQUIRED



Pump Selection for a Pressurized System - Commercial Project

Shoval

Parameters		
Discharge Assembly Size	2.00	inches
Transport Length Before Valve	425	feet
Transport Pipe Class	40	
Transport Line Size	3.00	inches
Distributing Valve Model	6403	
Transport Length After Valve	54	feet
Transport Pipe Class	40	
Transport Pipe Size	2.00	inches
Max Elevation Lift	2	feet
Manifold Length	28	feet
Manifold Pipe Class	40	
Manifold Pipe Size	2.00	inches
Number of Laterals per Cell	48	
Lateral Length	17	feet
Lateral Pipe Class	40	
Lateral Pipe Size	1.25	inches
Orifice Size	1/8	inches
Orifice Spacing	2	feet
Residual Head	5	feet
Flow Meter	None	inches
*Add-on Friction Losses	0	feet

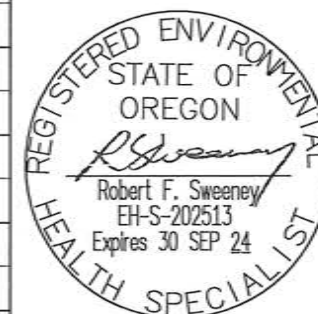
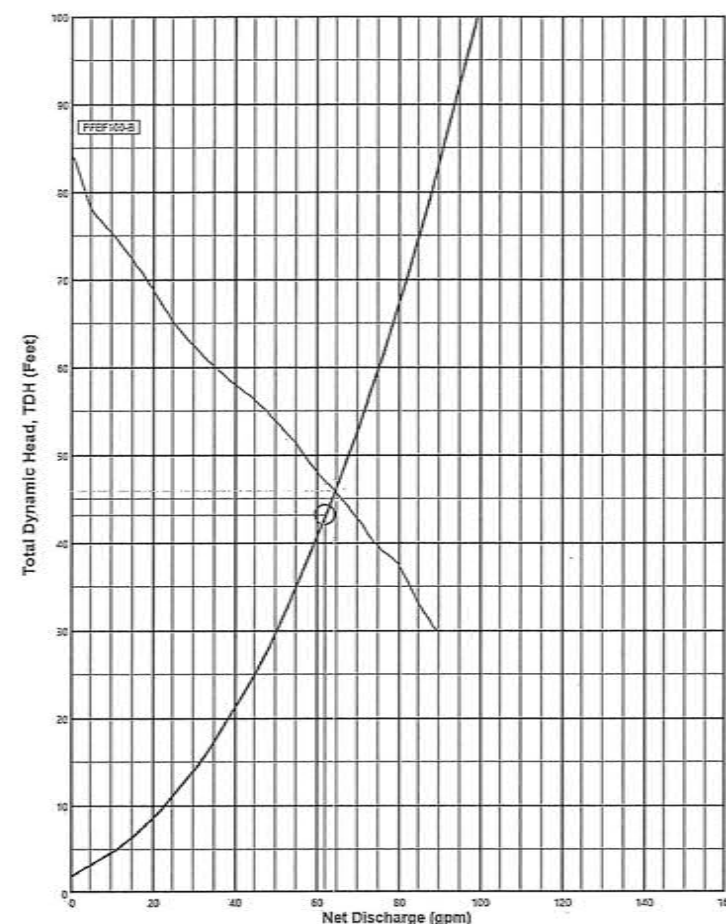
Calculations		
Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	144	
Total Flow Rate per Zone	62.3	gpm
Number of Laterals per Zone	16	
% Flow Differential 1st/Last Orifice	0.1	%
Transport Velocity Before Valve	2.7	fps
Transport Velocity After Valve	5.9	fps

Frictional Head Losses		
Loss through Discharge	7.8	feet
Loss in Transport Before Valve	3.7	feet
Loss through Valve	20.9	feet
Loss in Transport after Valve	3.2	feet
Loss in Manifold	0.5	feet
Loss in Laterals	0.0	feet
Loss through Flowmeter	0.0	feet
*Add-on Friction Losses	0.0	feet

Pipe Volumes		
Vol of Transport Line Before Valve	163.2	gals
Vol of Transport Line After Valve	9.4	gals
Vol of Manifold	4.9	gals
Vol of Laterals per Zone	21.1	gals
Total Vol Before Valve	163.2	gals
Total Vol After Valve	35.4	gals

Minimum Pump Requirements		
Design Flow Rate	62.3	gpm
Total Dynamic Head	43.1	feet

SAND FILTER SYSTEM CURVE

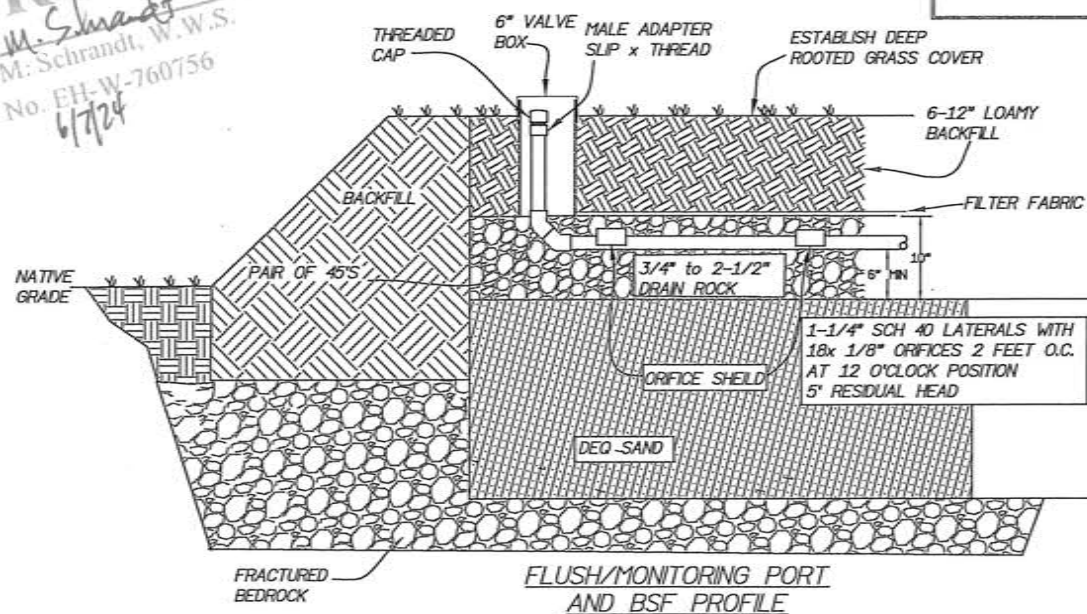


System Curve: —
Pump Curve: —
Pump Optimal Range: —
Operating Point: ●
Design Point: ○

USE OSI PFEF100512-B EFFLUENT PUMP
OR SIMILAR PUMP GENERATING 62.3GPM
@ 43.1FT. TDH

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5-31-2024

APPROVED
Connie M. Schrandt, W.W.S.
Lic. No. EH-W-760756
6/7/24



Page 4

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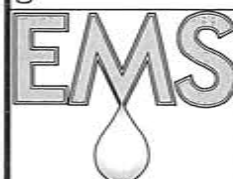
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Sand Filter Details and Pump Curve

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NEW
DUPLEX
CONTROL
PANEL

REVISED
5-31-2024



EXISTING GRADE

FROM 20,000
GALLON SEPTIC
TANK

6.3' APPROX
600
GAL.

10.5'

MINIMUM
LIQUID
LEVEL

1000 GALLON
SURGE TANK
7.83 gal/in

NORMAL OPEN
SIGNAL RATED
FLOAT
SWITCHES

HIGH LEVEL
ALARM

TIMER 2

TIMER 1

LOW LEVEL
ALARM

12"

16"

20"

GOULDS WE3885
(PREV. WE10H)
65gpm @ 46ft TDH
DUPLEX PUMPS WITH
ALTERNATING DOSE

600 GALLON
DOSING TANK
7.83 gal/in

4.00'

EXISTING 3"
TRANSPORT
LINES TO BSF

EXISTING
SCREENED
PUMP VAULT

APPROVED
Connie M. Schrandt
Connie M. Schrandt, W.W.S.
Lic. No. EH-W-760756
6/7/24

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Dosing Tank

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Page 5

11/13/2023

Scale: 1"= 2'

74149 BARNHART RD.
PENDLETON, OR 97801

Facility Name:
Address:
City:

UCRE, LLC	
74149 Barnhart Road	DEQ File#
Pendleton, OR 97801	6134

Component	Septic Tank 1	Septic Tank 2	Dosing/Surge Tank 3	BSF
Size	1000	20,000	1600	9000 sqft
Manufacturer	unknown	unknown	unknown	
Material	concrete	concrete	concrete	
Access	riser lid	access ports	riser lid	flush ports
Maintenance				
Event Counter			Monthly	
Moisture/Odors				Monthly
Effluent Filters			Semi-annual	
Pump Vaults			Semi-annual	
Pumps			Semi-annual	
Alarms			Semi-annual	
Flow Data			Monthly	
Pump Calibration			Annual	
Flush laterals				annual
Monitoring Wells				Semi-annual
Scum, Sludge, Solids	Annual	Annual	Semi-annual	
Sampling Requirements				
BOD5			Annual	
TSS			Annual	
FOG			Annual	
NH3 - N			Annual	
NO2 + NO3 - N			Annual	
TKN			Annual	
Pumps			Goulds 1hp	
Gallons Dosed			59.5	
Drawdown / Inch			15.7	
Total Drawdown / Dose (in)			3.80	
Pumps			2	
Volts			460	
SFA Max Amps			3.5	
Measured Amps (TBD)				
GPM			65	
Timer "ON" (min)			1:50	
Timer "OFF" (min)			22:10	
Max Daily # of Doses			60	
Max Monthly # of Doses			1860	
Meters / Event Counters			ct/etm/ovr	
Alarms			HLA/LLA	



REVISED
5-31-2024

Environmental Management Systems, Inc

TANK INSPECTION CHECKLIST

Septic and Dosing Tanks

All components accessible for easy maintenance
Lids in place and secured

Pumping systems

Pumping Systems present (vaults, filters, pumps, discharge assemblies, splice boxes)
Check float switch operations and settings
Check control panel operations and settings/alarms
Perform drawdown test to calculate pump flow rates
Permanent power supply and electrical permit

BOTTOMLESS SAND FILTER INSPECTION CHECKLIST

Distribution System

Clean-Outs on Ends of Pressure Laterals w Screw Tops & Access ports Installed
Pressure Test Squirt >5ft with proper duration so that dose <10% of Daily flow
Automatic Indexing Valves installed and functional

OPERATIONAL INSPECTION AT APPROXIMATELY 30 DAYS AFTER START-UP *

Entire system -final inspection*

All systems Functional
All lids secured
Timer settings correct
Construction record (as-built) present & completed by contractor

NOTES: *DEQ must be notified for inspection scheduling! Allow for potential project delay.
System design includes two inspections by EMS, additional inspections provided at regular hourly rates.

APPROVED
Connie M. Schrandt, W.W.S.
Lic. No. EH-W-760756
6/7/24

Page 6

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11/13/2023

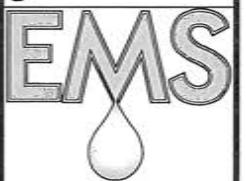
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Maintenance Matrix and Inspections

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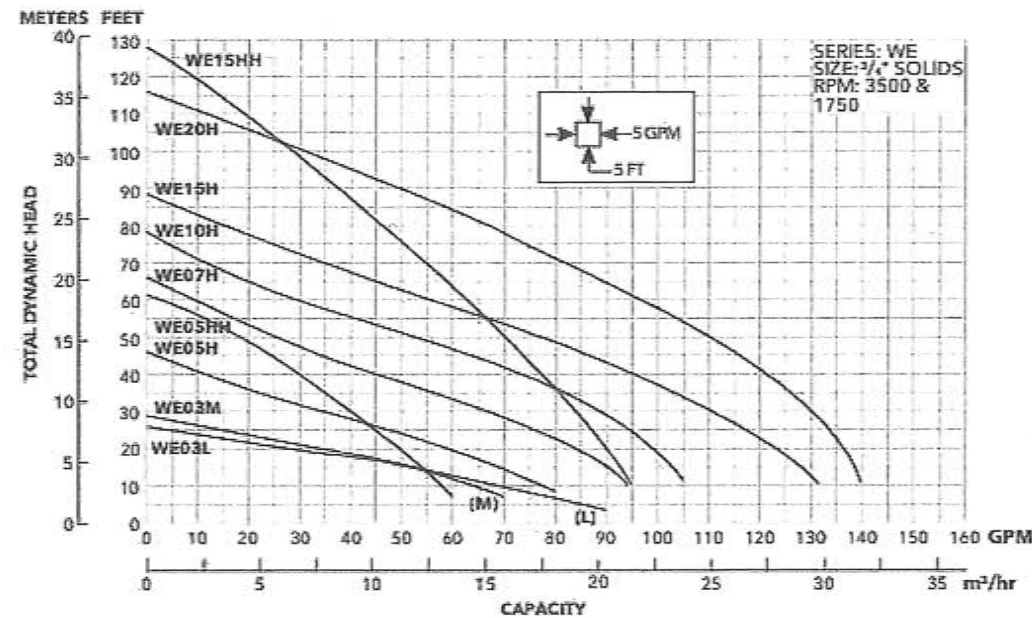
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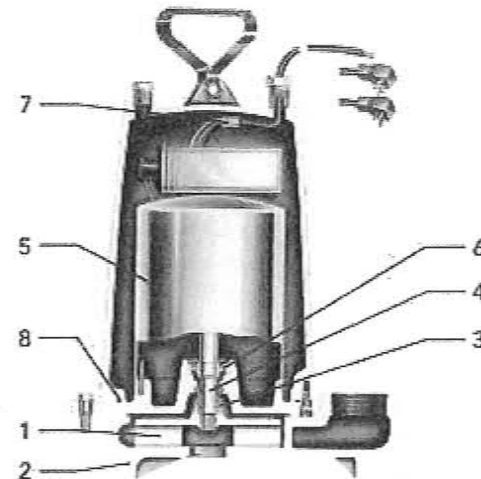
Wastewater

Goulds Water Technology



COMPONENTS

Item No.	Description
1	Impeller
2	Casing
3	Mechanical Seal
4	Motor Shaft
5	Motor
6	Ball Bearings
7	Power Cable
8	Casing O-Ring



PAGE 3

Orengo Controls Quote

General Info

Your Info Name: ISRAEL PEREZ Company: KIE SUPPLY INC Branch: HERMISTON Phone: 541-567-6934 Fax: Ext.: E-mail: ISRAEL@KIESUPPLY.COM	Project Info Project Name: ROUND-UP CITY INN Project City: PENDELTON Project State/Province: Oregon Project Country: United States of America Type of System: Other Specs Available? No	Designer Info Designer Name: JEREMY KILE Designer Phone: 541-587-5532 Designer Fax: System Flow Average GPD: N/A Peak GPD: N/A
---	--	--

Panel Info

Electrical Service Voltage: 480 Phase: 3 Frequency: 60 Hz 120VAC, 1∅, 60Hz Available? No	Base Model: DUPLEX Panel Family: Electromechanical Enclosure Type: Steel Type 4	Panel Options Control Transformer Dry Contact for Alarm Phase Monitor Power Light Door Stop Kit Coil Modem Phone Dialer Small (2" Dia.) Alarm Beacon Handle On Enclosure Front Main Disconnect 2 Fans
---	---	---

Tank 1 Info

Tank 1 Description: UNDERGROUND SEPTIC SYSTEM Number of Floats: 0 Float Functions:	Number of Pumps: 2 Pump/Doser: N/A Pump Operation: Alternating - Duplex Pump Make/Model: N/A Operational Comments: INDUSERS PUTTING MULTITRODE SYSTEM Seal Fail Type:	Options Tank: N/A Min Off Cycle Min On Cycle Min Override Off Min Override On Pump:
---	---	--

Comments

Additional Options:

General Comments:
NEEDS DUPLEX PANEL

Response Method:
E-mail

Date Needed:
11/02/2022

Date Requested:
11/02/2022

APPROVED
Connie M. Schrandt
Connie M. Schrandt, W.W.S.
Lic. No. EH-W-760756
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Component Data Sheets

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