

LAKE COUNTY ENVIRONMENTAL HEALTH

106 FOURTH AVENUE EAST

POLSON, MT 59860-2175

PH: 406-883-7236 FAX: 406-883-7205

Email: envhealth@lakemt.gov

WASTEWATER TREATMENT SYSTEM FINAL INSPECTION & USE PERMIT

Lake County Environmental Health (LCEH) hereby approves the Wastewater Use Permit # 8466 for the following:

OWNER: Chuck Hatfield & Amy Kloppenberg

MAILING ADDRESS: 123 County Meadows Dr

CITY: Park STATE: CO. ZIP: 80134

LEGAL DESCRIPTION: SECTION 19, T 23 N, R 19 W

SUBDIVISION/COS: Clifford Beach Orchard Homes LOT/TRACT#: 12

GEOCODE: LS-3351-19-4-03-10-0000 PARCEL SIZE: 4.85

PHYSICAL ADDRESS: Dellic Ave Polson, Mt. 59911

SYSTEM DESIGN: TYPE: Standard

COMMUNITY SYSTEM: YES / NO GPD: 400 BEDROOMS: 5

DRAINFIELD LAYOUT: 800ft² 3 trenches PUMP: 1/2HP MESPS-1

SQUIRT HEIGHT: 12ft SEPTIC TANK: 1500gal

SEPTIC TANK: GPS-NS 47 44 3.52 / GPS-EW -114 4 27.34

DF MANIFOLD: GPS-NS 47 44 3.67 / GPS-EW -114 4 27.7

WELL: GPS-NS _____ / GPS-EW _____

INSTALLER SIGNATURE: [Signature] DATE: 27 Oct 2017

PRINTED NAME: Nathan Schreifers

I hereby certify the above system was installed in accordance with all applicable regulations and specifications.

DESIGNER SIGNATURE: [Signature] DATE: 27 Oct 2017

I, or a representative, hereby certify the above system was installed by design and in accordance with all applicable regulations and specifications. An As-Built design will be provided within 30 days of installation per SECTION 3.6 (I) of the Lake County Wastewater Treatment System Regulations.

LCEH SIGNATURE: [Signature] DATE: 27 Oct 2017

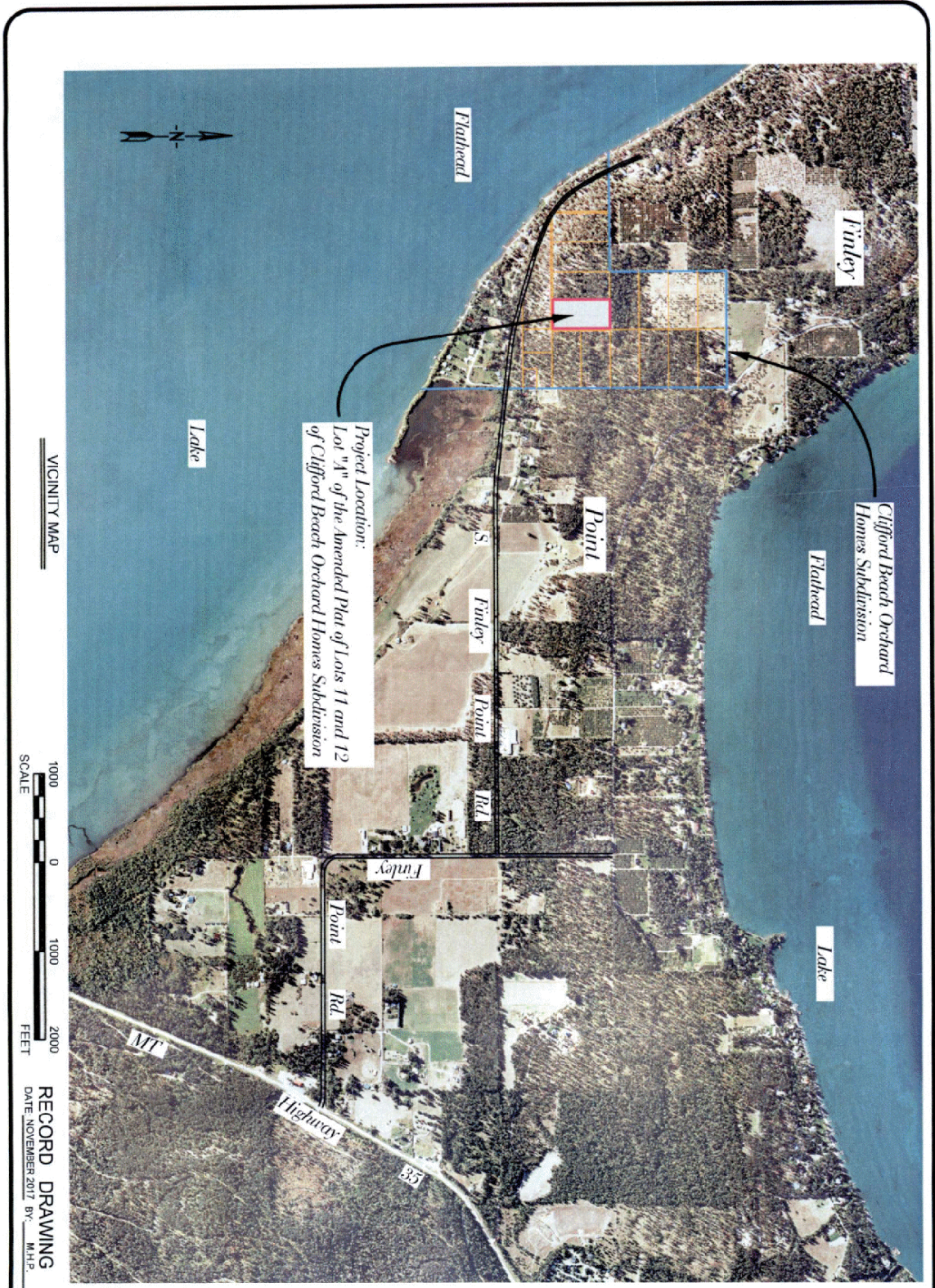
It is the property owner's responsibility to ensure the system is properly maintained and functioning within the guidelines set forth in the Lake County Wastewater Treatment System Regulations and the Montana Circular DEQ 4.

Any alteration of the wastewater treatment system not approved by Lake County Environmental Health Department invalidates this Use Permit. Any change in wastewater flow or strength from the design of this wastewater treatment system requires a Change of Use permit be issued. Examples include, but are not limited to: addition of a bedroom(s), altering a residential use, altering commercial or industrial use, replacement of structures, addition of a water treatment unit or a water fixture.

Minor repairs to the system will be allowed without an additional permit. These repairs are limited to: replacing a broken sewer line, pumping the septic tank (recommended every 3-5 years), cleaning the effluent filter (recommended annually) and replacing the effluent pump with a pump of equal specifications. Any other repairs require an approved Installation Permit from Lake County Environmental Health Department.

For more information please contact the Lake County Environmental Health Department.

See attached As-Built for design specifications.



Project Location:
 Lot "A" of the Amended Plat of Lots 11 and 12
 of Clifford Beach Orchard Homes Subdivision

Clifford Beach Orchard
 Homes Subdivision

VICINITY MAP



RECORD DRAWING
 DATE: NOVEMBER 2017 BY: M.H.P.

C-1

Application for Septic Permit
 for
 The Porter Living Trust
 Lot A, Amended Plat of Lots 11 & 12 of Clifford Beach Orchard Homes Subdivision
 Sec. 19, T.23 N., R. 19 W., Lake County

PROJECT NO. 17-P-0121
 DESIGNED BY: W.A.B.
 DRAWN BY: T.H.P.
 SCALE: AS SHOWN
 DATE: 07/2017

VICINITY MAP



- General Notes:**
1. It is contractor's responsibility to verify the presence, location and depth of all existing utilities as needed to perform the work. It shall be the contractor's responsibility to protect the utilities from damage. Property pins found within the construction area shall be preserved. If a moment is disturbed, the contractor shall replace the monument at their expense.
 2. Existing septic tanks shall be completely removed, crushed and backfilled, or filled with gravel per Lake County regulations.
 3. All necessary permits shall be obtained by contractor.

Standard Trench Installation Notes

1. Excavate and level installation areas.
2. Scarify surface to remove any freezing caused during excavation.
3. Place washed drain rock per Lake County and DEC standards.
4. Using a light tracked machine, cover trenches to a minimum of 12 inches after consolidation for H-10 applications and with 18 inches minimum cover after consolidation for H-20 applications. Avoid large rocks or debris in cover material. A well-graded, crushed gravel and careful compaction is recommended for H-20 applications.

Septic Tank and Pump Chamber Notes

1. Septic tank and pump chamber shall be manufactured by Glacier, Present and shall meet Lake County and Minnesota DEC standards.
2. The tank section shown on this page may not be representative of the actual size or dimensions of the septic tank and pump chamber. This detail is intended to provide plumbing and wiring schematics and float switch elevations only.
3. Pump discharge piping shall be 2 inch diameter.
4. All piping inside and within five (5) feet of the septic tank shall be schedule 80 PVC pipe.
5. Access to the pump shall be sufficient for maintenance. Risers are recommended on all tanks, and required if the top is more than eight (8) inches below the finished ground surface.
6. The riser access lid over the filter shall be at the finished ground surface.
7. Tanks, risers and access lids located in areas with vehicle traffic shall be engineered for standard vehicular loads. The use of physical barriers (i.e. landscape boulders, fencing, etc.) to protect access lids in non-vehicular areas to prevent accidental vehicle damage shall be as recommended by owner.
8. Septic tank/pump chambers should be carefully located so that they can be accessed by septic pump/trucks.

Specifications and Installation

1. All pipes shall be bedded six (6) inches above and below the pipe in pipe bedding sand or other fine grained soil free of gravel over one inch in size. Debris, frozen material, stones (greater than 6 inches in diameter), organic material or other unsuitable materials shall not be used for backfill within 24 inches of the top of the pipe. Compaction under and around the pipe shall be sufficient to prevent movement of the pipe due to settlement.
2. Pipe and fittings from the dwelling or structure to the septic tank shall conform to or exceed ASTM D1785 (Schedule 40 or 80) and must be joined by an integral bell and spigot joint with rubber gasket or solvent cement. PVC pipe shall have a minimum SDR of 35. Pipe and fittings from the septic tank to the drainfield shall be either Schedule 40 or Schedule 80 PVC, as described above or HDPE conforming to or exceeding ASTM D3500. HDPE pipe shall have a minimum SDR of 11 and a minimum pressure rating of 160 psi.
3. Drain rock must be washed and range in size from 1 to 2.5 inches and must contain no more than 2 percent passing the #8 sieve. The material shall be of sufficient competency to resist slaking or dissolution. Gravels of shale, sandstone, or limestone may degrade and shall not be used.

4. Sand C-30 shall meet the following specifications:

Sieve	Particle Size (mm)	% Passing
0.375	9.50	100
No. 4	4.75	95-100
No. 8	2.36	80-100
No. 16	1.18	45-85
No. 30	0.60	15-40
No. 50	0.30	3-10
No. 100	0.15	0-2

5. The sides and bottom of the trenches shall be raked to scarify any smeared soil surfaces after excavation.
6. Construction equipment not needed to construct the system shall be kept off the drainfield area. Construction shall not be initiated when the soil moisture content is high.
7. The bottom of the drainfield shall be at least 12 inches and no more than 36 inches below the natural ground surface.
8. There shall be a minimum of 12 inches of fill or soil above the drain rock. When the bottom of the trench is less than 24 inches below the ground, a cap above the natural ground surface is required. The cap must be tapered from the edge of the outermost trench wall with a 3:1 or flatter slope to encourage drainage away from the center of the drainfield.
9. Clearouts shall be provided at the end of each lateral. The clearouts shall be within 6 inches finished grade and shall be constructed of long sweep elbows or two 45-degree bends. A metal location marker shall be provided for each clearout.
10. Where the top of the septic tank is located more than 18 inches below finished grade, manhole risers shall be installed extending to within eight inches of the finished grade to facilitate inspection and cleaning of each compartment in the tank. The riser pipe shall be of sufficient size to provide access to each compartment for inspection and sludge removal.
11. Sealing material such as groud shall be placed around any pipe where it enters or exits the tank to ensure that no leakage occurs.
12. The septic tank shall be installed level and on a flat bedding material free of organic material, debris, rocks, cobbles, stones or gravel greater than 1 inch in diameter.

Tank Testing

1. All tanks must be watertight. Water tightness testing for concrete tanks may be conducted using a water test.
2. Water testing must be conducted by sealing the outlets, filling the septic tank to its operational level and allowing the tank to stand for at least 8 hours. If there is a measurable loss (2 inches or more), refill the tank and let stand for another 8 hours. If there is again a measurable loss, the tank must be replaced or repaired.

Operation and Maintenance

1. Inspect filters every 3 months and clean and replace as needed.
2. Clean and pump septic tank every 3 years.
 - a. Confirm baffles are in place.
 - b. Visually inspect mechanical and electrical components.
 - c. Observe and calibrate pump operation and tank draw down if necessary.

RECORD DRAWING
DATE: NOVEMBER 2017 BY: M.H.F.

Draw No. D-2

Application for Septic Permit
for
Jennifer Nave
Tract A, C.O.S., 4216 Sec. 19, T 23 N, R 19 W, Lake County

PROJECT NO. N0101
DESIGNED BY: WAB
DRAWN BY: M.H.F.
CHECKED BY: M.H.F.
DATE: 06/2017

DRAINFIELD SPECIFICATIONS





LAKE COUNTY ENVIRONMENTAL HEALTH
106 FOURTH AVENUE EAST
POLSON, MT 59860-2175
PH: 406-883-7236 FAX: 406-883-7205
Email: envhealth@lakemt.gov

September 25th, 2017

William Buxton
44663 Cherry Ln
Bigfork, Mt 59911

Re: Wastewater Treatment System Permit #8466
Owners: Chuck Hatfield & Amy Kloppenberg
12364 Country Meadows Dr.
Parker, CO. 80134
Clifford Beach Orchard Homes Lot #12
Section 19, Township 23N, Range 19W
Geo Code 15-3351-19-4-03-10-0000

Mr. Buxton:

This department has received the proposed wastewater treatment system design for the above-referenced property. Approval is granted for the installation of the wastewater treatment system contingent upon the following conditions:

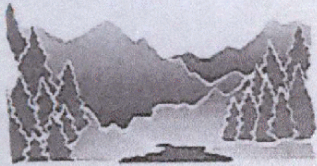
1. Construction of the wastewater treatment system shall be in strict compliance with plans and specifications submitted by you, William Buxton PE, dated July 2017.
2. Alteration of the approved plans must have prior written authorization from this department.
3. The wastewater treatment system must be installed by a Lake County wastewater treatment system licensed installer or property owner if successful in passing the required installer test.
4. Prior to covering of the wastewater treatment system, a joint inspection of the system must be made by this office and you, William Buxton PE. The joint inspection must include a pump test.
5. Upon completion of the wastewater system you, William Buxton PE, must submit an as-built drawing and a letter stating that the system was installed according to the approved plans and specifications.
6. The RV hook up shall only be used for dumping purposes, for the home owners personal RV. The RV shall not be used as a guest quarters on the property.

Please contact this department if you have any questions regarding this approval or if you require additional information.

Sincerely,

Robert Davis, Registered Sanitarian

cc: Chuck Hatfield & Amy Kloppenberg; 12364 Country Meadows Dr.; Parker, CO. 80134



LAKE COUNTY WASTEWATER TREATMENT SYSTEM PERMIT APPLICATION

RECEIVED

AUG 14 2017

PERMIT # _____ CHECK # _____ APPLICATION DATE: _____

LAKE COUNTY ENVIRONMENTAL HEALTH
106 FOURTH AVENUE EAST
POLSON, MT 59860

PH: 406-883-7236
FAX: 406-883-7205
EMAIL: envhealth@lakemf.gov

Return the completed application with the appropriate fee to the above address.
Checks must be made payable to L.C.E.H.

\$300.00 Installation \$200.00 Alteration New Components \$100.00 Alteration No New Components

Property Owner(s): PORTER LIVING TRUST (CHUCK HATFIELD & AMY KLOPPENBERG (702) 885-1020
Mailing Address: 12364 COUNTRY MEADOWS DR City: PARKER State/Zip: CO/80134
Property Address: NELLIE AVE City: POLSON Email: chuckhattfield@live.com

Subdivision/COS: CLIFFORD BEACH ORCHARD HOMES Lot 12 Block _____ Parcel Size 4.85
Legal Description: LOT 12 TR A OF AMND 11 & 12 Section: 19 Township: 23 N. Range: 19 W.
Geo Code: 15-3351-19-4-03-10-0000

Wastewater System Designer: WILLIAM BUXTON Phone: (406) 890-0507
Mailing Address: 33463 CHERRY LN City: BIGFORK State/Zip: MT/59911
Licensed Installer: TBD Roberto - Zavala Phone: _____
Mailing Address: _____ City: _____ State/Zip: _____

Wastewater System proposed: (Circle all that apply) New Replacement Failed Alteration
Structure(s): (Circle) Single-Family Multi-Family Mobile Home Commercial Garage/Shop Other
Bedroom #: 4 + RV (S) Basement: (Circle) Yes No
Water System: (Circle) Existing Proposed (Circle) Well Lake Spring Community Water System
Water Softener/Treatment Unit(s) in use or proposing to install: (Circle) Yes No

Detailed Project Description: (e.g. "Construction of a new 3-bedroom single-family home with a dry garage.")
CONSTRUCTION OF A NEW PRESSURE JOSED DRAINFIELD TO SERVE A NEW 3 BEDROOM HOUSE, 1 BEDROOM GARAGE, AND 1 RV CONNECTION

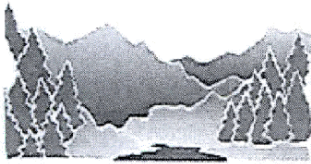
I hereby declare that the information submitted herein is true and complete to the best of my knowledge. I understand that an Installation Permit must be issued before any system components are installed unless otherwise authorized by a Lake County Registered Sanitarian. I also understand that a final inspection and authorized approval of the system must be conducted by Lake County Environmental Health prior to back filling and use of the system. For Alteration, I acknowledge that, if I am increasing wastewater flow or strength to an existing wastewater treatment system, it may cause the system to fail prematurely. I also understand that because of the additional flow or strength of wastewater, the septic tank should be checked a minimum of every three (3) years and pumped if necessary.

My signature also authorizes access to the described property for purposes of reviewing this application.

X Property Owner(s)/Agent Signature(s): [Signature] Date 8-11-17

If agent, written authorization from the owner and/or legal representative must be received by this department before the application can be processed.

Please attach additional information that may support your application.



**LAKE COUNTY WASTEWATER TREATMENT SYSTEM
PERMIT APPLICATION**

RECEIVED

AUG 21 2017

PERMIT # 8466 CHECK # 202 APPLICATION DATE: 8-11-17

LAKE COUNTY ENVIRONMENTAL HEALTH
106 FOURTH AVENUE EAST
POLSON, MT 59860

PH: 406-883-7236
FAX: 406-883-7205
EMAIL: envhealth@lakemf.gov

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\$300.00 Installation \$200.00 Alteration
New Components \$100.00 Alteration
No New Components

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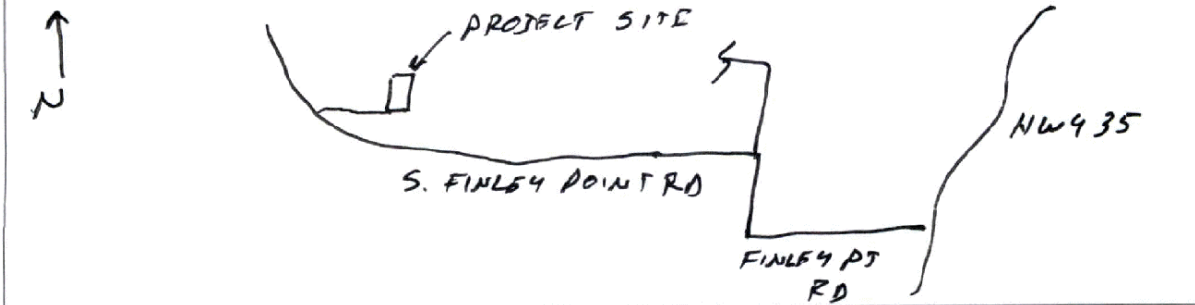
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X Property Owner(s)/Agent Signature(s): [Signature] Date: 8-11-17

If agent, written authorization from the owner and/or legal representative must be received by this department before the application can be processed.

Please attach additional information that may support your application.

Location Information: Draw a road map or write directions to the property. Include any landmarks, road names, branch roads, distance mile markers, neighbors to the north and south, building colors/features, etc.



OFFICE USE ONLY

Documents Required: **(Circle)** Level II Guest House Easement Shared Affidavit Other

Document Notes: NONE

Sanitation Approval: **(Circle)** Required Not Required Completed ES# _____
 Design Flow - Number of Bedrooms: 3 Gallons Per Day: 400gal/Day
 Soil Type: loamy fine sand sand, gravel, cobbles Septic Tank: 1500 combined septic tank
 Application Rate: 0.5gal/Day/ft² Other: 100ft² Drain Field; 1/2HP PF 5005 High Head Effluent Pump
 Level II System Required? Y or **(N)** If yes, explain: _____

Other septic permits related to this parcel: NONE

Sanitation Approval:

This permit is approved for a single family residence with 3 bedrooms, and an RV pad w/ dump station. The system has an 800ft² drain field with 3 trenches 3ft wide each containing a 90ft lateral as per the design by William Buxton Dated Aug 10 2017 DKW

Planning Approval:

This permit is approved for a single family residence only. The shop/garage will come on a later permit. The SFR meets all regs, but any alterations will require additional review from lake county. The 5th wheel trailer shall either be removed as a dwelling or stored w/ no living quarters Planner Initials: CE



 Signature of Registered Sanitarian

22 Sep. 17

 Date of Issue

8466

 Permit #

THE DESIGN, LOCATION, & ORIENTATION OF THE DRAINFIELD MAY NOT BE ALTERED
 WITHOUT PRIOR APPROVAL FROM LAKE COUNTY ENVIRONMENTAL HEALTH.
 APPROVED PERMIT IS INVALID IF SYSTEM IS NOT INSTALLED WITHIN TWENTY-FOUR MONTHS OF ISSUANCE.