

**CONVENTIONAL ON-SITE WASTEWATER TREATMENT SYSTEM  
FINAL INSPECTION FORM**

**P**

On-site ID: ON0049399

Tax schedule (APN) #: 5217000128

Permit Type: New

Environmental Health Specialist: Kevin Bolinsky (BEX Petro) Final inspection Date: 01.19.2018

Approved: Yes

**Residential Property Information:**

Owner: Sheldon Funk

Address: 7420 Juniper Dr Colorado Springs, CO 80908

Approved No. Bedrooms: 5

Water supply: Well

Well Installation verified: Yes

Well Location GPS: >300' from tank

*Approval will be revoked if in the future any well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.*

**Minimum System Requirements:**

Soil (in-situ) Type: 2A LTAR (In-situ soil): 0.5

Limiting Layer: Groundwater: None

Bedrock: None

OWTS Tank: Capacity (gallons): 1500

OWTS Pump Tank: Capacity (gallons): N/A

Soil Treatment Area (STA): Sq. Ft. (10-1): 1200

Sq. Ft. (10-2): 1200

Sq. Ft. (10-3): 840

Sq. Ft. (with Diverter Valve): NA

**Final system installation:**

Licensed Installer: Tier II

Installer: Kunau Drilling LLC

Treatment Level: 1

OWTS Tank: GPS Location: N/A

Tank Type: New Concrete

Capacity (gallon): 1500

OWTS Pump Tank:

Tank Type: NA

Capacity (gallon): N/A

Audio/Visual Alarm: NA

OWTS Pump: N/A

Soil Treatment Area (STA):

GPS Location: N/A

Total Sq. Ft installed: 768

Configuration: Trench

Distribution: Gravity

Distribution Media: Chambers

Infiltrative Surface Depth: N/A

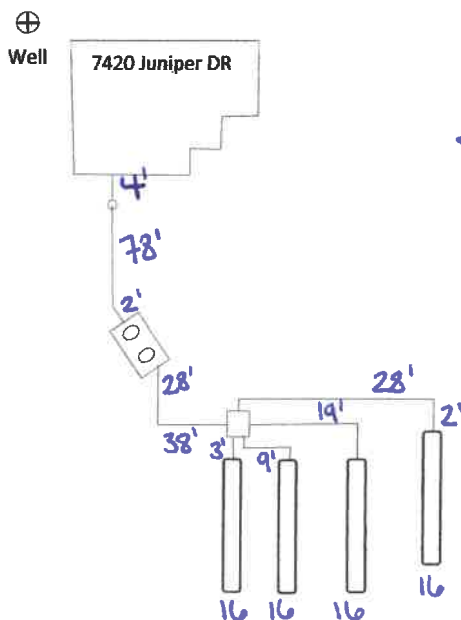
Distribution Area Length: N/A

Distribution Area Width: N/A

Media Type: Q4 Chambers (12 sq/ft)

Total installed: 64

Notes: Not to scale, No GPS coordinates recorded, insufficient size of STA allowed (unless chamber type was labeled incorrectly).



Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: SHELDON FUNK  
7420 JUNIPER DR  
COLORADO SPRINGS, CO 80908



**EL PASO COUNTY PUBLIC HEALTH  
ENVIRONMENTAL HEALTH DIVISION**  
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044  
COLORADO SPRINGS, CO 80907  
PHONE: (719) 578-3199 FAX: (719) 578-3188  
[www.elpasocountyhealth.org](http://www.elpasocountyhealth.org)

## NEW SYSTEM PERMIT - OWTS

Valid From 10/18/2017 To 10/18/2018

PERMITEE :

**SHELDON FUNK  
7420 JUNIPER DR  
COLORADO SPRINGS, CO 80908**

Onsite ID: ON0049399

Tax Schedule # : 5217000128

Permit Issue Date: 10/18/2017

Dwelling Type: RESIDENTIAL

# of Bedrooms (if Res): 5

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

OWNER NAME :

**SHELDON FUNK**

### System Installation Requirements:

- A Conventional non-engineered OWTS system to be installed on site, requiring a minimum of Tier I licensed installer to be named prior to final approval.
- System installation includes gravity fed system with d-box to chamber in trenches, max installation depth of 48". Minimum tank requirements 1500 gallon and 840 sq ft of soil treatment area (70 Q4 / 56 Arc 36 chambers required).
- The system must be installed per approved design document signed and dated 10/18/17, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation. In addition system must remain completely uncovered, including the tank size, for final inspection.
- The well must be installed at time of final inspection, or final approval will not be given until well installation is verified.
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

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COLORADO SPRINGS, CO 80908

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This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

**Inspection request line: Call (719) 575-8699 before 3:30 p.m. the business day prior to the requested inspection date.**

Authorized By: Environmental Health Specialist

SB0008015 AR0012237 ON0049399

**APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT**
**Property Information:**

 Property Address: 7420 Juniper Dr. City and Zip: Colorado Springs 80908

 Legal Description: Lot 3 Forest Hills

 Tax Schedule #: 52170-00-128 Lot size: 217,811 SF

 Is the property gated: ☐ Yes ☒ No Please provide a gate code if necessary: \_\_\_\_\_

 Site Located Inside City Limits: ☐ Yes ☒ No Proposed Use: ☒ Residential ☐ Commercial

 Water Supply: ☒ Well ☐ Cistern ☐ Municipal Potential Number of Bedrooms: 5

 Has a Conditional Acceptance Document been issued for this property: ☐ Yes ☐ No ☒ Unsure

**Owner Information:** ☐ Primary Contact

 Owner: Sheldon Funk Daytime Phone: 719-661-4100

 Owners Mailing Address: 9737 Fleete Flower Way, Peyton, CO 80831

 Email Address: sheldon@sunflower-landscapes.com Fax #: \_\_\_\_\_

 General Contractor: Barbara Keller Phone/Email: 719-487-7499
**OWTS Installer Information:** ☐ Primary Contact

 System Installer: Kunau Daytime Phone: 719-683-3720

 Email Address: \_\_\_\_\_ Licensed installer: ☐ Tier 1 ☐ Tier 2

 All engineer-design system must be installed by a Tier 2 licensed installer

**CURRENT FEES AS APPROVED BY THE EL PASO COUNTY BOARD OF HEALTH**

All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)

- ☒ **New Permit:** \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = **\$855.00**
- ☐ **Major Repair Permit:** \$525.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$548.00**
- ☐ **Minor Repair Permit:** \$240.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = **\$263.00**

Permits expire one year from date of issuance

Provide a complete written scope of work to be performed on the property.

New Septic system to be installed at 7420 Juniper Drive per  
design on site plan. Work to be completed by Kunau Drilling.

**Please include the following documents with your application.**

- A soils report: including at least 1 soil profile excavation pit, in accordance with section 8.5 A-F of OWTS regulations
- A clear and legible design document: including the proposed and alternate locations, as well as system layout, labeled with all setbacks to pertinent structures and features in table 7-1.
- Provide directions to property, from a main highway, on the back side of application.

Failure to provide the above listed documents may result in denial of the permit application

I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in order to obtain information necessary for the issuance of a permit.

Applicants Signature: \_\_\_\_\_

 Date: 10-9-17

Reviewed 2016 approved fee (12/30/2015)

matt

- Property address or lot number must be clearly marked and visible from the road.
- Profile excavation test pit and/or soil profile holes must be clearly marked
- Proposed and alternate soil treatment areas must be protected from compaction and disturbance
- Please provide directions to the property from a main highway, by text or picture, below.

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*Failure to comply with the above information may result in an additional charge for a return trip.*

Permit #: 0N0049399 Site Inspection date: 10/16/17

Date Approvals Rcvd: Development Services: 10/12/17 Floodplain/enumerations: 10/11/17

Design: ☒ Conventional ☐ Engineer Design Engineer: \_\_\_\_\_

Engineer Job #: \_\_\_\_\_ Engineer Date Stamped: \_\_\_\_\_

LTAR/Soil Type: .50 Groundwater: N/A Bedrock: N/A

Minimum Requirements: Tank Capacity: 1500 Soil Treatment area: 840

System Feed: ☒ Gravity ☐ Pump to Gravity ☐ Pressure Dosed ☐ Other: \_\_\_\_\_

System Media: ☒ Chambers ☐ Rock and Pipe ☐ Other System Layout: ☒ Trenches ☐ Bed

Additional Comments: Conventional gravity fed septic system to be installed

E.H. Specialist: Matt Goul Date: 10/18/17 ☒ Approved ☐ Denied





# PARR ENGINEERING & CONSULTING, INC.

ON: 0049399  
TAX: 5217000128  
Final: 1/19/2018

Christopher L. Parr, P.E. Principal  
11590 Black Forest Road, Suite 10, Colorado Springs, CO 80908  
Office: 719-494-0404 Cell: 719-659-1313

## STA SOIL EVALUATION

**Date:** September 25, 2017 **Job:** JN: 17.169

**Site:** 7420 Juniper Drive  
**Location:** Colorado Springs, CO 80908

**Purpose of Investigation:** To determine general subsurface soil conditions at the site location & to formulate design criteria for the proposed On-Site Wastewater Treatment system (OWTS)

**Field Procedure:** The materials in the various strata of the soil profile pit were visually classified in accordance with the U.S. Department of Agriculture (USDA) standards.



Profile Pit	Yes
Perc Test	-

**Date: (Profile Eval)** September 13, 2017  
**Excavator** Contractor  
**Evaluator** S. Dunfee

**Depth to Groundwater (permanent or seasonal) Pit #1:** Not Reached  
**Depth to Groundwater (permanent or seasonal) Pit #2:** Not Reached

**Depth to Bedrock - Pit #1:** Not Reached  
**Depth to Bedrock - Pit #2:** Not Reached

**Other Terrain Features or Soil Conditions:** See Attached Site Map

**Endorsement:** Daniel J. Mizicko P.E.

Profile Pit 1	
<b>Latitude:</b>	39° 0'27.40"N
<b>Longitude:</b>	104°41'20.26"W
<b>Layer</b>	<b>Soil Type &amp; LTAR</b>
0 - 1'	Topsoil
1' - 8'	Type 2A (0.50)
-	-
-	-

Profile Pit 2	
<b>Latitude:</b>	39° 0'27.34"N
<b>Longitude:</b>	104°41'20.34"W
<b>Layer</b>	<b>Soil Type &amp; LTAR</b>
0 - 1'	Topsoil
1' - 8'	Type 2A (0.50)
-	-
-	-

Location	
Latitude:	Longitude:
-	-
-	-
-	-

Perc #1	N/A	Min./In.
Perc #2	N/A	Min./In.
Perc #3	N/A	Min./In.
Average:	N/A	Min./In.

**Recommendations:** (1) A conventional, non-engineered On-Site Wastewater Treatment system (OWTS) is acceptable for this site.



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## Google Site Map



PP 1  $39^{\circ}0'27''$  N  
 $104^{\circ}41'18''$  W



Parr Engineering & Consulting, Inc.  
11590 Black Forest Road, Suite 10  
Colorado Springs, Colorado 80908  
Phone: 719-494-0404

### Profile Pit - Log

Job Number:	17.169
Date Evaluated:	09/13/17
Profile Pit#:	Pit #1

Excavator:	Contractor	Total Depth:	8'-0"
Logged By:	S.Dunfee	STA Slope & Direction:	S 10° W @ 4%
Method:	Profile Pit	Latitude:	39° 0'27.40"N
Auger & Size:	Mini Excavator	Longitude:	104°41'20.26"W

Depth (ft.)	Sample Interval	7420 Juniper Drive, 80908						
		USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color
		Topsoil						
2		Sandy Loam	Granular	Massive	No	Type 2A (LTAR = 0.50) Treatment Level 1	<50%	2.5Y6/4 (MOIST)
4								
6								
8								
	Total Depth = 8'-0"							
10								

Evidence of Groundwater:	Not Reached
Depth to Bedrock:	Not Reached

Additional Notes:





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Colorado Springs, Colorado 80908  
Phone: 719-494-0404

### Profile Pit - Log

Job Number:	17.169
Date Evaluated:	09/13/17
Profile Pit#:	Pit #2

Excavator:	Contractor	Total Depth:	8'-0"
Logged By:	S.Dunfee	STA Slope & Direction:	S 10° W @ 4%
Method:	Profile Pit	Latitude:	39° 0'27.34"N
Auger & Size:	Mini Excavator	Longitude:	104°41'20.34"W

Depth (ft.)	Sample Interval	7420 Juniper Drive, 80908						
		USDA Soil Texture	USDA Soil Structure - Shape	Soil Structure Grade	Redoximorphic Features Present? (Y/N)	Soil Type (from Table 9 in O-14)	% Rock Frag.	Color
		Topsoil						
2		Sandy Loam	Granular	Massive	No	Type 2A (LTAR = 0.50) Treatment Level 1	<50%	2.5Y6/4 (MOIST)
4								
6								
8		Sandy Loam	Granular	Massive	No	Type 2A (LTAR = 0.50) Treatment Level 1	<50%	2.5Y6/3 (MOIST)
10		Total Depth = 8'-0"						

Evidence of Groundwater:	Not Reached
Depth to Bedrock:	Not Reached

Additional Notes:



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Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044  
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**CONVENTIONAL (NON-ENGINEERED)  
ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET**  
**(MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)**

**Wastewater Flow**

Total number of bedrooms: 5  
Design wastewater flow (gallons/day) from Table 6-1: 600

**Septic Tank**

Septic tank size (in gallons) from Table 9-1: 1500

Tank burial depth (from top of tank, in inches)  
**(NOTE:** Shall not exceed 48 inch depth by regulation)

24"

Will groundwater affect tank?

Yes ☐ No ☒

Will an effluent screen be installed?

Yes ☒ No ☐

**(Note:** Effluent screens are required for all new systems or replacement of the septic tank)

**Soil Treatment Area (STA)**

Long Term Acceptance Rate (LTAR) From Table 10-1: .5

Unadjusted STA size (see 8.10.C.4) – show calculation:

$600 / .5 = 1200$

Design flow (gallons per day)

LTAR (gallons/day/sq.ft.) =

Depth of STA (cannot exceed 48"):

36" Trenches are preferred. If bed system is selected,  
the selection reason must be specified: \_\_\_\_\_

Type of STA (check which applies):

☒ Trench ☐ Bed

**FOR REPAIRS ONLY** (check which applies):

☐ Wide Bed (more than 12 feet wide)  
☐ Deep Gravel Trenches  
☐ Seepage Pit  
☐ None of the Above

10/18/17  
MB

**Method of Septic Tank Effluent Application (check which applies):**

- ☒ Gravity  
☐ Pump to gravity  
☐ Dispersed by siphon

**Type of Distribution Media (check which applies):**

- ☐ Rock  
☐ Tire chips  
☒ Chambers  
☐ Other \_\_\_\_\_ Other type \_\_\_\_\_

**Adjusted STA size, using factors from Table 10-2 & 10-3 (show calculation, with adjustment factors utilized):**

$$1200 \times .7 = 840$$

**A scale drawing *shall* be provided with each design document (see attached example design documents), showing:**

- Layout of entire OWTS, including the STA configuration (trench, bed, etc.)
- Dimensions of the trench(s) or the bed(s)
- Location of all OWTS components and distances to all applicable physical features in Table 7-1
- Depths of all components (or elevations relative to a designated benchmark)
- Location of the soil profile test pit excavation(s), or percolation test holes, if required
- Location of the alternate STA site
- North direction arrow
- Graphic scale (1" = 20', 1" = 30', etc.)
- Contours, OR slope direction and % slope

**Note: It is recommended that the design document is completed by a professional in the OWTS industry. EPCPH does not complete, or alter design documents. Contact EPCPH with any questions.**

**The proposed STA sites must be protected from disturbance, compaction, or other damage by staking, fencing, posting or other effective methods.**

**Certification**

  
Signature

Sheldon Funk  
Print Name

10-9-17  
Date

7420 Juniper Dr.  
Property Address

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Email

(See attached Tables and Design Document examples)

10/18/17  
MB

- Effluent screen required

LOT 3, FOREST HILLS SUBDIVISION  
7420 JUNIPER DRIVE  
COUNTY OF EL PASO, STATE OF COLORADO

10/18/17  
MB

