

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION FORM

ON-SITE ID: ON0049034

APN # 5208224008

DATE: 3/2/2017



APPROVED YES NO Environmental Health Specialist: Kat McGarvy
 Address: 6875 Juanita st, Colorado Springs CO 80908 Owner: Marianne Davenport
 Residence: #Bedrooms: 2 Commercial: System Installer: Owner Install

SEPTIC TANK: Construction Material concrete Capacity Gallon 1000 gallon

SOIL TREATMENT AREA:

Trench: Depth (Range): 6" - 16" Width: 3' Total Length: 50' Sq. Ft.: 4 trenches = 600 sq ft
 Bed: Depth (Range): Width: Total Length: Sq. Ft.:
 Depth of Rock: Under PVC: Type of cover on Rock:

SEEPAGE PITS: # of Pits: Working Depth #1: #2: Size (L x W) #1 #2 Total Sq. Ft.

CHAMBER SYSTEMS:

Type of Chamber: #Chambers: Sq. Ft./Chamber: Bed: Trench: Depth (Range):

Sq. Ft. Required (10-1): 600 Sq. Ft. Required (10-2): 600 Sq. Ft. Required (10-3): 600 Sq. Ft. Required for Diverter Valve: (10-2)/(2)
 Sq. Ft. Installed: 600

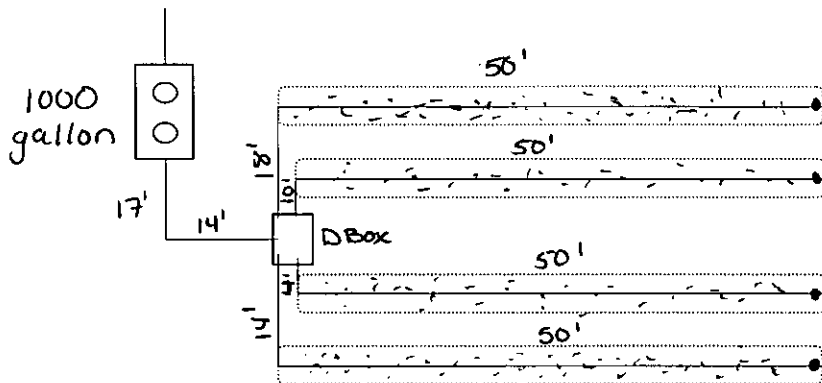
Engineer Design: Y N Engineering Firm: Approval Letter Provided: Y N

Well installed at time of OWTS inspection: Y N Public Water: Y N

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

Notes:

- No home on property at time of installation. SDR 35 pipe used



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: MARIANNE DAVENPORT
6875 JUANITA ST
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

NEW SYSTEM PERMIT - OWTS

Valid From 12/8/2016 To 12/8/2017

PERMITEE :

MARIANNE DAVENPORT
6875 JUANITA ST
COLORADO SPRINGS, CO 80908

Onsite ID: ON0049034

Tax Schedule # : 5208224008

Permit Issue Date: 12/07/2016

Dwelling Type: RESIDENTIAL

OWNER NAME :

MARIANNE DAVENPORT

of Bedrooms (if Res): 0

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

System Installation Requirements:

- A Conventional non-engineered OWTS system to be installed on site.
- System installation includes gravity fed rock and pipe system, max installation depth of 24" due to bedrock at 72". Minimum tank requirements 1000 gallon and 600 sq ft of soil treatment area.
- All setbacks must be maintained per regulations, including but not limited too: well being 100' from soil treatment area and 50' from tank, the soil treatment area must be a minimum of 10' from any property line and 20' from any structure.
- The system must be installed per approved design document stamped and dated 12.7.2016, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- System must remain completely uncovered, including the tank size, for final inspection.
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

The OWTS must be installed per the stamped and approved Design Document dated 12/07/2016.

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 8:30 a.m. of the day that the inspection is requested
Weekends & Holidays excluded.

Christine Suarez For Kat

SR000618 / AR0010380

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

NEW PERMIT MAJOR REPAIR PERMIT MINOR REPAIR PERMIT

Owner Marrine Davenport Daytime Phone (719) 220-0727
 System Installer Haven Excavating LLC Daytime Phone (719) 499-8619
 Property Address 6875 Juanita st. City and Zip CO Springs CO 80908
 Legal Description Lot 1 Blk 22 Brentwood Country Club + Cabin site TR NO1 to W/EZ of vac on 1/12 st Adj
 Owners Mailing Address 13330 Holmer Rd Co. Springs, Co. 80908
 Email Address N/A Fax # N/A
 Tax Schedule # 52082-24 008 Lot Size 22300 plus
 Site Located Inside City Limits Yes No Primary Contact Owner Contractor
 Proposed Use: Single Family Multi-Family Commercial
 Water Supply: Well Cistern Municipal Number of Bedrooms 2
 Pickup: **Fax:** **Email:**

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

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**

- All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)
- This permit will expire one year from the date of issuance.

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: Marrine Davenport Date: Nov 10, 2016

Site Insp. Date: 12/1/16 Perc. Rate: 0.5% Permit # 00049034

E.H.S. Review Notes: Bedrock @ 72" PPG - Soils last Oct. 16 GeoQuest
200/0.5 = 400 (1.0) = 600 (1.0) = 1000

Date to: E.P.C. Development Services 12/2/16 Flood Plain and Enumerations 11/29/16

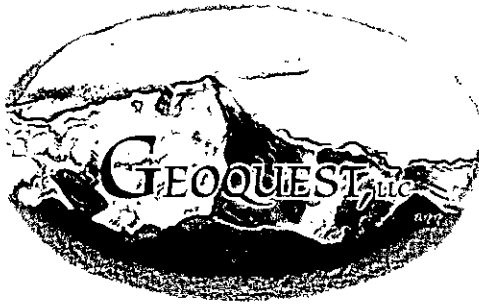
Permit Requirements: Conventional - gravity fed, rock and pipe system

Due to encountering bedrock @ 72", gravity system must maintain 48" separation - cannot install deeper than 24"

1000 Min. Septic Tank Capacity 600 Min. Absorption Area

E.H. Specialist [Signature] Date 12/7/16 Approved Denied

kat



E

6825 Silver Ponds Heights #101
Colorado Springs, CO 80908
(719) 481-4560

PROFILE PIT EVALUATION

FOR

DARYL FORTNER

JOB #16-0757

Lot 4, Block 21,
Brentwood Country Club Subdivision,
0 Juanita Street,
El Paso County,
Colorado

6875 Juanita St
Colorado Springs CO 80908

DN 0049034

APN 5208224008

3/2/17

Respectfully submitted,

Charles E. Milligan, P.E.
Civil Engineer



PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at **Lot #4, Block 21, Brentwood Country Club Subdivision, 0 Juanita Street, El Paso County, Colorado**. The location of the test pit was determined by Daryl Fortner. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed approximately southwest at approximately 10% approximately 20 feet. All applicable portions of the El Paso County Health Department Onsite Wastewater Treatment System Regulations (OWTS) must be complied with for the installation of the treatment system.

The inspection was performed on October 3, 2016, in accordance with Table 10-1 of the **E.P.C.P.H. OWTS Regulations**.

Soil Profile #1:

- 0 to 38" - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, black in color, 7.5 YR 2.5/1, fill encountered.
- 38" to 72" - USDA soil texture sandy loam, soil type 2, structure shape granular, structure grade 2, non-cemented, LTAR 0.60, dark brown in color, 7.5 YR 3/3.
- 72" to 8' - USDA soil texture sandy clay loam, soil type 3, structure shape granular, structure grade 2, weakly cemented, LTAR 0.60, greyish brown in color, 10 YR 5/2, weathered sandstone.

Soil Profile #2:

- 0 to 44" - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, black in color, 7.5 YR 2.5/1, fill encountered.
- 44" to 90" - USDA soil texture sandy loam, soil type 2, structure shape granular, structure grade 2, non-cemented, LTAR 0.60, brown in color, 10 YR 4/3.

~~No water was encountered during the inspection. Bedrock was encountered at the depth of 72 inches in Profile Pit #1 during the inspection.~~ No known wells were observed within 100 feet of the proposed system. **All setbacks shall conform to county regulations.**

Based on the observed conditions, we feel a design based on an LTAR of 0.50, GPD/SF (USDA 2A, treatment soil, treatment level 1) is reasonable. Due to encountering USDA soil type 2A, a conventional non-engineered OWTS may be installed. A Design Document is required to obtain a permit for the OWTS installation. Maximum depth of install for the septic system to be installed on this site is 24 inches below existing grade.

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of partly cloudy skies with moderate temperatures.

PROFILE PIT LOG - Profile Pit #1

JOB#: 16-0757
 DATE EVALUATED: 3 Oct 2016
 EQUIPMENT USED: Backhoe

DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0"- 38"				2A
38"- 72"				2
72"- 8'				3

0"- 38" Sand

Fine-coarse Grained
 Low Density
 Low Moisture Content
 Low Clay Content
 Low Cohesion
 Low Plasticity
 Black Color
 7.5YR 2.5/1

USDA Soil Type: 2A
 USDA Soil Texture: Sandy Loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 1
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50
 Fill

38"- 72" Sand

Fine-coarse Grained
 Low Density
 Low-moderate Moisture Content
 Low Clay Content
 Low Cohesion
 Low Plasticity
 Dark Brown Color
 7.5YR 3/3

USDA Soil Type: 2
 USDA Soil Texture: Sandy Loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 2
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.60

72"- 8' Sandstone

Fine-coarse Grained
 High Density
 Moderate Moisture Content
 Low-moderate Clay Content
 Low-moderate Cohesion
 Low-moderate Plasticity
 Greyish Brown Color
 10YR 5/2

USDA Soil Type: 3
 USDA Soil Texture: Sandy Clay Loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 2
 Cementation Class: Weakly Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.60
 Weathered

LTAR to be Used for OWTS Sizing: **0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)**
 Depth to Groundwater (Permanent or Seasonal): Not Encountered
 Depth to Bedrock and Type: Sandstone @ 72"
 Depth to Proposed Infiltrative Surface from Ground Surface: Max Depth 24" (Gravity Fed)
 Soil Treatment Area Slope and Direction: Southwest @ 10 %

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 16-0757
 Sheet: 1 of 2
 Date: 17 Oct 2016
 Scale: 1/4" = 1'
 Drawn by: tcw
 Checked by: cem

Project Name and Address

Daryl Fortner
 0 Juanita Street
 Lot 4, Block 21,
 Brentwood Country Club
 Sch. No. 5208224007
 El Paso County, Colorado

GEOQUEST, LLC.

6825 SILVER PONDS HEIGHTS
 SUITE 101
 COLORADO SPRINGS, CO
 80908
 OFFICE: (719) 481-4560
 FAX: (719) 481-9204

PROFILE PIT LOG - Profile Pit #2

JOB#: 16-0757
 DATE EVALUATED: 3 Oct 2016
 EQUIPMENT USED: Backhoe

0"- 44" Sand

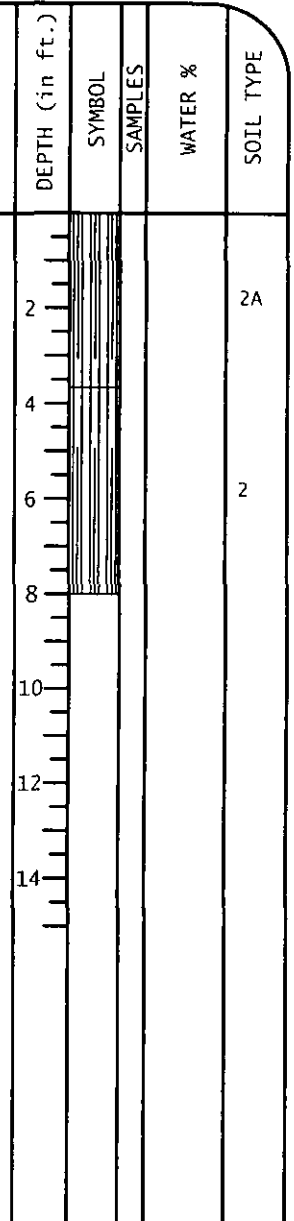
Fine-coarse Grained
 Low Density
 Low Moisture Content
 Low Clay Content
 Low Cohesion
 Low Plasticity
 Black Color
 7.5YR 2.5/1

USDA Soil Type: 2A
 USDA Soil Texture: Sandy loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 1
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50
 Fill

44"- 90" Sand

Fine-coarse Grained
 Low Density
 Low-moderate Moisture Content
 Low Clay Content
 Low Cohesion
 Low Plasticity
 Brown Color
 10YR 4/3

USDA Soil Type: 2
 USDA Soil Texture: Sandy Loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 2
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.60



LTAR to be Used for OWTS Sizing: 0.50GPD/SF (USDA Type 2A, Treatment soil, Treatment Level 1)

Depth to Groundwater (Permanent or Seasonal): Not Encountered

Depth to Bedrock and Type: Not Encountered; Sandstone @ 72" in Pit 1

Depth to Proposed Infiltrative Surface from Ground Surface: Max Depth 24" (Gravity Fed)

Soil Treatment Area Slope and Direction: Southwest @ 10%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 16-0757

Sheet: 2 of 2

Date: 17 Oct 2016

Scale: 1/4" = 1'

Drawn by: tcw

Checked by: cem

Project Name and Address

Daryl Fortner

0 Juanita Street
 Lot 4, Block 21,
 Brentwood Country Club
 Sch. No. 5208224007
 El Paso County, Colorado

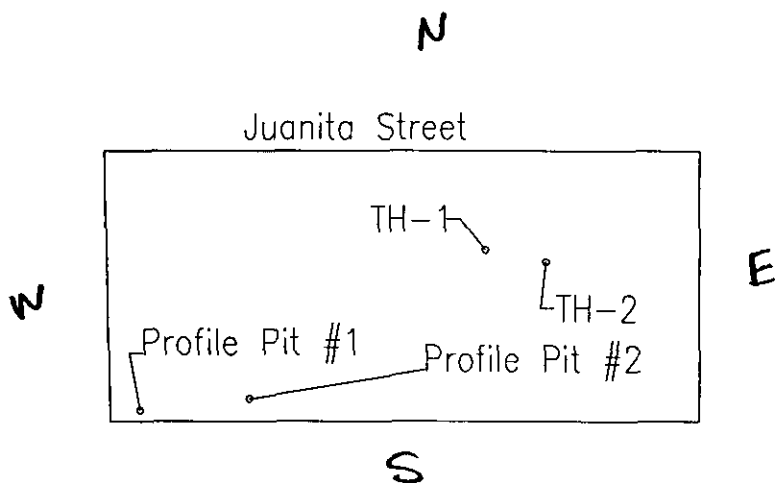
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 80908

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GEOQUEST LLC,
SITE MAP

0 Juanita Street
El Paso County,
Colorado
Job #16-0757



Location from Southeast Lot Corner to Profile Pit #1:

N. 69° E. - 12'

Location from Profile Pit #1 to Profile Pit #2:

N. 84° E. - 42'

GPS coordinates:

Pit 1; N. 39° 01' 30.81" W. 104° 41' 59.79"

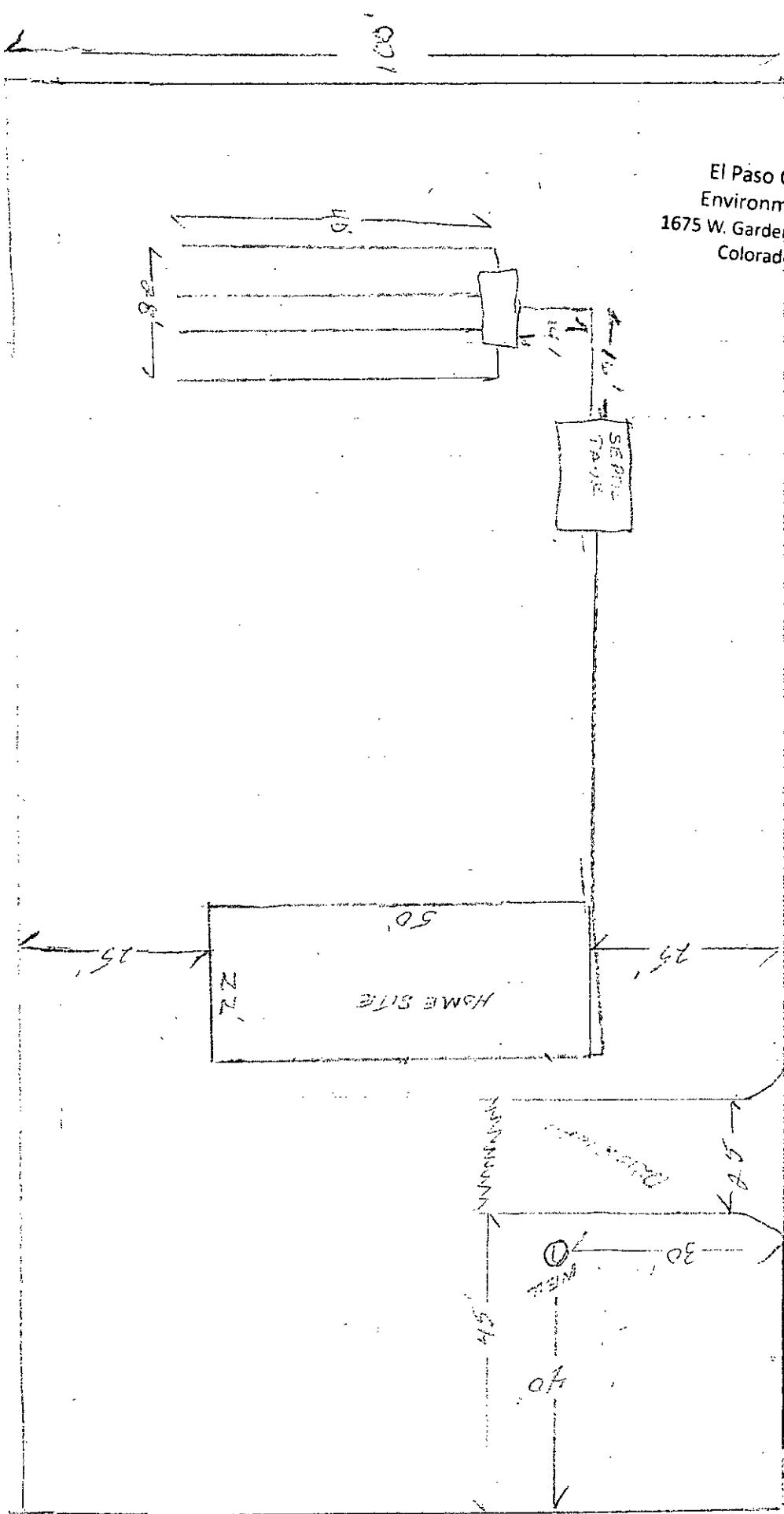
Pit 2; N. 39° 01' 38.90" W. 104° 41' 59.20"



0 25 50 75
GRAPHIC SCALE IN FEET
SCALE: 1" = 75'

El Paso County Public Health
Environmental Health Services
1675 W. Garden of the Gods Rd., Suite 2044
Colorado Springs, CO 80907

[Signature]
12/2/10



14' = 5'

GARDEN ST.



MERGER

**MERGER BY CONTIGUITY
OF PROPERTIES SITUATED
WITHIN UNINCORPORATED EL PASO COUNTY**

By this document, it is hereby acknowledged that the properties listed below are merged together pursuant to Section 35.2 K., Nonconforming Lot or Parcel and Merger by Contiguity, of the El Paso County Land Development Code.

12-19-00: PLEASE NOTE: **(PLEASE TYPE)**
THIS MERGER FORM WILL NOT BE PROCESSED UNLESS IT IS TYPED.
The property owner(s) formalizing the merger by contiguity are:

Marianne Davenport

Location of merged property:
6875 Juanita St., Co. Springs, Co. 80908

Current Tax Schedule number(s): Schedule # 5208224007 Lot 4 BLK 21 Brentwood Country Club & Cabin Sites
Legal Description: TR No. 1 TOG w/Vac 2 of Vac Orville St Adj.

And
LOT 1 BLK 22 BRENTWOOD COUNTRY CLUB & CABIN SITES TR
NO 1 TOG W/E2 OF VAC ORVILLE ST ADJ Parcel Number: 52082-24-008

The properties described above have merged together pursuant to Section 35.2 K. of the El Paso County Land Development Code and are considered as one (1) parcel for purposes of zoning administration as the properties do not contain the required minimum lot area as specified within the RR-5 zoning district which is applicable to this property.

No portion of this merged property shall be sold or conveyed away individually or separately unless said portion and/or remaining portion:

- 1) Is brought into compliance with the zoning on the property, or
- 2) Is otherwise approved by El Paso County in accordance with applicable regulations.

Property Owner(s) signature:
X Marianne Davenport

Date: September 14, 2016
Date: _____

NOTE: Merger does not relieve the property of compliance with regulations or criteria of other agencies or departments or of other applicable sections of the Land Development Code, except as otherwise expressly provided for in subsection K.

Merger does not eliminate lot lines or any easements associated with the property.
Merger does not guarantee that the affected parcel will be considered as a "buildable parcel."

SUBMITTED IN CONFORMANCE WITH SECTION 35.2 K.
OF THE EL PASO COUNTY LAND DEVELOPMENT CODE

9/15/16
Date

[Signature]
Director, El Paso County Planning Department

Exhibit A: Merger Map
EXHIBIT B: DEED
EXHIBIT C: DEED
EXHIBIT D: COMPANION MAP

MER-16-006



Prevent • Promote • Protect

Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044
Colorado Springs, CO 80907
(719) 578-3199 phone
(719) 575-3188 fax
www.elpasocountyhealth.org

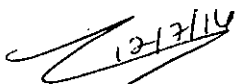
**CONVENTIONAL (NON-ENGINEERED)
ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET
(MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)**

Wastewater Flow

Total number of bedrooms:	<u>2</u>
Design wastewater flow (gallons/day) from Table 6-1:	<u>300</u>

Septic Tank

Septic tank size (in gallons) from Table 9-1:	<u>1000</u>
Tank burial depth (from top of tank, in inches) <i>(NOTE: Shall not exceed 48 inch depth by regulation)</i>	<u>18"</u>
Will groundwater affect tank?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Will an effluent screen be installed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<i>(Note: Effluent screens are required for all new systems or replacement of the septic tank)</i>	


 El Paso County Public Health
 Environmental Health Services
 1675 W. Garden of the Gods Rd., Suite 2044
 Colorado Springs, CO 80907

Soil Treatment Area (STA)

Long Term Acceptance Rate (LTAR) From Table 10-1:	<u>.5</u>
Unadjusted STA size (see 8.10.C.4) – show calculation: $\frac{\text{Design flow (gallons per day)}}{\text{LTAR (gallons/day/sq.ft.)}} = \frac{300}{.5} = \underline{600 \text{ sq ft}}$	<u>600 sq ft</u>
Depth of STA (cannot exceed 48"):	<u>18"</u>
Trenches are preferred. If bed system is selected, the selection reason must be specified: _____	
Type of STA (check which applies): <input checked="" type="checkbox"/> Trench <input type="checkbox"/> Bed	FOR REPAIRS ONLY (check which applies): <input type="checkbox"/> Wide Bed (more than 12 feet wide) <input type="checkbox"/> Deep Gravel Trenches <input type="checkbox"/> Seepage Pit <input type="checkbox"/> None of the Above

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):

$$600 \times 1.0 (\text{Rock Media}) = 600 \text{ sqft} \times 1.0 (\text{Trench}) = 600 \text{ sqft} = 600 \text{ sqft}$$

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

Company Name

Print Name

Address

Date

Phone

Property Address

Email

(See attached Tables and Design Document examples)