H Pue County, CO Public (ealth Prevent • Promote • Protect	Environmental Health Division 1675 W. Garden of the Gods Rd., Suite 204 Colorado Springs, CO 80907 (719) 578-3199 <i>plann</i> (719) 575-8664 <i>Jax</i> www.elpasocountyhealth.org			
ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION FORM	ON-SITE APN # DATE:	ID: <u>ON0048858</u> 5125101006 <u>1/3/2017</u> P		
APPROVED YES NO Environmental Health Specialist: Kat McGarm Address: <u>11655 Bison Meadows Ct Colorado Springs</u> Owner: <u>Dave Snyder</u> Residence: X #Bedrooms: <u>4</u> Commercial: System Installer: <u>Name</u>	Ľ			
SEPTIC TANK: Construction Material concrete Capacity Gallon 1250 gallon tank, 5	00 gallon pum	ip tank		
SOIL TREATMENT AREA: Trench: Depth (Range): Width: Total Length: Sq. Ft.: Bed: Depth (Range): Width: 12' Total Length: 50' Sq. Ft.: 1800 Depth of Rock: Under PVC: Type of cover on Rock: landscape f SEEPAGE PITS: # of Pits: Working Depth #1: #2: Size {L x W} #1	<u>iabric</u>	otal Sq. Ft.		
CHAMBER SYSTEMS: Type of Chamber: #Chambers: Sq. Ft./Chamber: Bed: 🗋 Trench: 🗌 Dept	h (Range):	-		
Sq. Ft. Required (10-1): <u>1750</u> Sq. Ft. Required (10-2): <u>1750</u> Sq. Ft. Required (10-3): <u>1750</u> Sq. Ft. Installed: <u>1800</u>	Sq. Ft. Requi	ired for Diverter Valve: (<u>10-2)/(2)</u>		
Engineer Design: Y X N Engineering Firm: GeoQuest LLC Approval Letter Provid Well installed at time of OWTS inspection: Y N X Public Water: Y N X *Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank of Notes: X X X				

See attached GeoQuest as built drawing dated 1, 10, 17



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: DAVE SNYDER 11655 BISON MEADOWS CT COLORADO SPRINGS, CO 80908

	EL PASO COUNTY PUBLIC HEALTH	l
	ENVIRONMENTAL HEALTH DIVISIO	
El Paso County, CO		
Public Cealth	1675 W. GARDEN OF THE GODS ROAD, SUITE 2	2044
¹ uonc j (ealth	COLORADO SPRINGS, CO 80907	0
	PHONE: (719) 578-3199 FAX: (719) 578-318	8
Prevent * Promote * Protect	www.elpasocountyhealth.org	
	NEW SYSTEM PERMIT - OWT	rs
	Valid From 5/9/2016 To 5/9/2017	
PERMITEE :	DAVE SNYDER	Onsite (D: 0N0048858
	11655 BISON MEADOWS CT	Tax Schodule #: 5125101006
	COLORADO SPRINGS, CO 80908	Permit Issue Date: 05/09/2016
		Dweiling Type: RESIDENTIAL
OWNER NAME :	DAVE SNYDER	# of Bedrooms (if Res): 4
		Proposed Use (if Comm):
		Designed Gallons/Day: Water Source: PRIVATE WELL
- PE certification and AS Bu	ccording to approved and stamped GEOQUES ealth department notification uilt drawing are required prior to final approval	of system
- PE certification and AS Bu - Ensure all set backs are m Treatment Area The OWTS must be installe This permit is issued in accordance with 25-10-1	ealth department notification uilt drawing are required prior to final approval naintained, including a minimum of 50 feet betw d per the stamped and approved Design Docur 00 Colorado Revised Statutes. The PERMIT EXPIRES upon completion install	of system ween existing pond and Soil ment dated 05/09/2016. hation of the Onsite Wastewater Treatment System, or at
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El Paso Courney, CO Public ealth SB0004756 AD000063	Environmental Health Division 1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 578-3188 fax www.elpasocountyhealth.org
Owner Davie Saya caDaytime PhoneSystem Installer Vullar DrunnerDaytime PhoneProperty AddressDrunnerDaytime PhoneProperty AddressDrunnerDaytime PhoneDaytime Phone<	MINOR REPAIR PERMIT $117352-1710$ $19683-3720$ $/580908$ $7724 Co 8087$ 5888036348 e_59C $Gover Contractor tial humber of Bedrooms \frac{4}{7} mail: 740 25gin 7 5 yaba.com$
New Permit: \$685.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23. 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 r • This permit will expire one year from the date of Issuance. 1. ***, that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite V Tase: County Board of Health. False authorize the assigned representative of El Paso County Public Mealth to enter oner county for the issuance of a permit. Applications Signature: Site Insp. iDate: 3110 Perc. Rate:	najor credit card (VIsa / MC) Wastewater System (OK/S) Regulations of the El
E.H.S. Review Notes: LTAK_6_30 4 Pedroom :	numerations _ 512110_
1250 17:50 Min. Septic Tank Capacity Min. Absorption A E.1. Specialist Date 44/110	Area
Reviewed 2016 approved fee (12/30/2015)	Kà



January 10, 2017

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

El Paso County Health Department 1675 West Garden of the Gods Road Colorado Springs, Colorado 80907

Re: Septic System Inspection (GQ #15-0349) Lot 4A, Filing #2, Bison Meadows Subdivision, 11655 Bison Meadows Court, Colorade Opringo Co 80908 El Paso County, Colorado

Dear Sir,

We inspected the installation of the engineered septic system at the above address at several points during its construction as well as the finished product. It has been installed in accordance with our engineered plans and specification. This includes having the correct size septic tanks, the proper grade on all pipes and sections of the absorption field, the correct depth, size and configuration of the absorption field, and the backfill around and over the field.

The field should be seeded in the future to allow for vegetation growth next spring. Additional grading may be required in the future to repair any minor erosion areas until the grass seed takes hold. You should ensure that no vehicles are allowed to park on any portion of the system.

The system is ready for final certification from the El Paso County Health Department. A Certificate of Occupancy (CO) will not be issued by PPRBD until El Paso County Health Department has received this letter and the AS-Built Drawing. Please call me if you have any questions.

Sincerely,

Charles E. Milligan Civil Engineer





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

PROFILE PIT EVALUATION

DAVE SNYDER

JOB #15-0349

Lot #4, Bison Meadow Subdivision, 11655 Bison Meadows Court, El Paso County, Colorado



PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at Lot #4, Bison Meadows Subdivision, 11655 Bison Meadows Court, El Paso County, Colorado. The location of the test pit was determined by Doug Bandle. 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 to the northeast at 8.7% at least 20 feet. All applicable portions of the El Paso County Health Department OWTS Regulations must be complied with for the installation of the treatment system.

The inspection was performed on May 14, 2015, in accordance with Table 10-1 of the E.P.C.P.H. OWTS Regulations.

Soil Profile:

0 to 6" - Topsoil- loam, organic composition.

- 6" to 54" USDA soil texture sandy clay loam, soil type 3A, structure shape GR, structure grade 1, non-cemented, LTAR 0.30, brown in color, 10 YR 5/3, redoximorphic from 21" to 54".
- 54" to 93" USDA soil texture gravely sandy clay loam, soil type 3A, structure shape GR, structure grade 1, non-cemented, LTAR 0.30, Pale brown in color, 10 YR 7/4, random clay pockets, Dawson Arkose.
- 93" to 8' USDA soil texture sandy clay loam, soil type 3A, structure shape GR, structure grade 1, non-cemented, LTAR 0.30, light yellowish brown in color, 10 YR 6/4, Dawson Arkose.

Evidence of historical perched ground waters was encountered at the depth of 21 inches during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. All setbacks shall conform to county regulations.

Due_to_encountering_evidence-of-historical_groundwater_at=the_depth_of (21-inches_the_septic=system_to_be_installed_on_this_site_shall_be-designed by_a-Colorado_Licensed-Engineer_Based_on_the_observed_conditions,-we-feel_a design=based_on_an_LTAR-of-0-30-is-reasonable,_using an above ground uniformly-pressure_dosed_soil=treatment_area-is-required

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 warm temperatures.

JOB# DATE EQU	OFILE PIT LOG #: 15-0349 E EVALUATED: 14 May 201 IPMENT USED: MINI-EXCA	5	#1	DEPTH (in ft.)	SYMBOL	WATER %	SOIL TYPE
Lo Or 6"- 54" <u>Sa</u> Fin Ma Ma Ma Ma	DPSOIL Dam rganic Composition andy Clay Loam ne - Medium Grained oderate - High Density oderate - High Moisture Content oderate Clay Content oderate Cohesion oderate Plasticity own Color 10YR 5/3		Sandy Clay Loam ape: Granular ide: 1	2 - 2 - 4 - 6 - 8 -			3A 3A 3A
93 ⁻ - 8' Sa Fir Ve Lo Mo Mo Mo Mo Mo	ravely Sandy Clay Loam ne - Very Coarse Grained ery High Density w - Moderate Moisture Content oderate Clay Content oderate Clay Content oderate Plasticity le Brown Color 10YR 7/4 ndy Clay Loam ne - Very Coarse Grained ery High Density w - Moderate Moisture Content oderate Clay Content oderate Clay Content oderate Plasticity ht Ghasticity ht Yellowish Brown Color 10YR 6/4	USDA Structure Sha USDA Structure Gra Cementation Class: I Long Term Acceptan Special Conditions: I USDA Soil Type: 3A USDA Soil Texture: 3 USDA Structure Sha USDA Structure Gra Cementation Class: I	Gravely Sandy Clay Loam ape: Granular ide: 1 Non-Cemented ace Rate (LTAR, Treatment Level 1): 0.30 Random Clay Pockets; Dawson Arkose Sandy Clay Loam ape: Granular de: 1 Non-Cemented ace Rate (LTAR, Treatment Level 1): 0.30				
Depth to Depth to Depth to Soil Treat Note: See Regulation Implement	e Used for On-site Wastewater Groundwater (Permanent of Bedrock and Type: None E Proposed Infiltrative Surfa tment Area Slope and Direct El Paso County Board of He ns for Additional Information. ted in the Design of the OW	or Seasonal): 21" (Ev incountered ce from Ground Surf ction: N.E. @ ~ 8.7% calth Regulation Chap Refer to Table 10-1 fo [S. System Sizing Dep	ter 8: On-Site Wastewater Treaments Si or Corresponding LTAR if Treatment Lev pends on a Number of Factors (i.e. LTAF	equired (ystems ((yel 2, 2N, R, # of Be	Above DWTS , 3, or 3	Grade)) 3N will t	
Distributio	n Media Used in the STA) 5-0349 of 1 June 2015 Bison Build 11655 Bison Mea Lot #4 Bison Meadows Sch. No. 512510	and Address ers adows Court Subdivision 1002	GEOQUEST, LLC. 6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908 OFFICE: (719) 481-4560 FAX: (719) 481-9204	COLORAL COLORAL	00 LIC		









Operation of the System in the Future. Proper Design, Construction, and Maintenance can Assist in Minimizing Uncertainties, but Cannot Entirely Eliminate Them. Homeowners Should be Advised of Maintenance and Special Considerations for Septic Systems. Refer to El Paso County Public Health Brochure: "Maintaining Your Septic System" for Additional Information. Due to the Possibility of Unknown Water Usage Factors, Geoquest, LLC. Provides No Warranty of this Design or Installation Against Failure or Damage of Any Type.

General Notes: All Work per El Paso County Board of Health he Regulations Chapter 8: On-Site Wastewater STA Treatment Systems (OWTS) Criteria. ale or Figure 1				
nte	All Setbacks Shall Conform to El Paso County Regulations (See Table 7-1 in the Regulations for Additional Information). Contractor/Homeowner Must Verify All Setbacks and Obtain Utility Clearances Prior to Construction.			
yo tioi ic ar	n. Contractor/ Contractor/ Engineered	Contractor/Homeowner is Responsible for Permit. Contractor/Homeowner Must Obtain Approval of Engineered OWTS from the El Paso County Health Department.		
ns Pag Bel	Quarter Be ge Protected a	imited to 45 Degree Ells or Long Sweep nds. Areas Under Driveways Shall Be is Per El Paso County Health t Regulations.		
r Far d.	nk 5 FT of the 100' in Stra	Building Sewer Clean-Outs Shall Be Installed within 5 FT of the Structure and at Intervals Not to Exceed 100' in Straight Runs and When the Cumulative Change in Direction Exceeds 135 Degrees.		
)se Ino Is		ounding Area to Drain Away from the lent Area (STA).		
ins n	Hoofed Ani	Paving, Planting of Trees/Shrubs, and Vehicular or Hoofed Animal Traffic of Any Kind Over the STA may Cause Premature Failure and is Prohibited.		
an Ə n t		Sheet 2, 3, and 4 for nal Details and Information.		
оо 2 т	GEOQUE 6825 SILVER PO SUITE 101 COLORADO SPF 80908	NDS HEIGHTS		
	OFFICE: (719) 48 FAX: (719) 481-92			
	Project: 15-0349 Sheet: 1 of 4 Date: 27 Apr 2016 Revised:	Project Name and Address Elevation Homes 11655 Bison Meadows Court Lot # 4A, Filing # 2, Bing Meadows S/D		
	Bison Meadows S/D			

Sch. No. 5125101006

El Paso County, Colorado

Drawn by: mas

Checked by: cem



Soil Treatment Area (STA) Layout (Pipe and Gravel Beds)

SCALE: 1" = 10"

on Page 1 with Respect to Buildings and Lot Lines. Contact Engineer for Clarification.

Flushing Valve (Typ. of 3 Each Zone, 9 Total) See Detail Below for Additional Detail and Clarification.

> Ball Valve or Threaded End Cap (Threaded End Cap Required if Above Grade) Sweep 90° or (2) 45° Angles đ٢ 1-1/2" Ø PVC Pipe Lateral (Typ. of 3, Each Zone)

Min. 6" Above Finish Grade or May be Placed in Small Valve Box if Desired. This Will Provide Access to Flush Each Lateral, Allowing for Removal of the Build-Up of Organics (System Maintenance).

Flushing Valve Detail

Not to Scale

INSPECTIONS REQUIRED ARE AS FOLLOWS:

1.) Engineer to Verify Soil Treatment Area Location at Time of Construction.

2.) Engineer to Inspect Excavation Prior to Placement of Approved Sand Fill.

3.) Engineer Will Inspect the Installation of All OWTS Components (i.e. All Plumbing, Tanks, Pump Chamber, STA, etc.) Prior to Backfill.

4.) Engineer to Inspect the Soil Treatment Area After Backfill to Insure Min. Cover and Proper Drainage Away from Soil Treatment Area.

Please Notify this Office Min. 24 Hours Prior to Inspection.







Dose Volume = 100 Gallon Dose Required

We Recommend the use of the Orenco MVP, Aquaworkx IPC, SJE-Rhombus or Approved Equivalent Control Panel Equipped with a Manual Pump Run Switch, Pump Run Counter, and Event Counter. Engineer to Approve Prior to Installation.

Electrical Code Requirements: All Electrical Work, Equipment, and Material Shall Comply with the Requirements of the Currently Applicable National Electrical Code as Designated by the State Electrical Board Rules and Regulations (3 CCR 710-1) on the Date of the Permit. The Electrical Installer Shall Contact the Electrical Inspector for the Location where the OWTS is Constructed. All Electrical Components Shall be Protected from Moisture and Corrosive Gases. Special Care Shall be Taken to Ensure the Electrical Requirements of Each Component Meet Manufacturer Specifications (i.e. Voltage and Amperage).

1. All Wire Splices Shall be Enclosed in the Control Panel. The Control Panel Shall be Placed in an Accessible Location Positioned Outside of the Tank Riser.

2. All Wires Shall be Spliced with Corrosion-Resistant, Watertight Connectors. NO WIRE SPLICES ARE ALLOWED WITHIN THE PUMP CHAMBER OR RISER.

3. Conduits Shall be Sealed to Prevent Gases from Entering the Control Panel and Electrical panel.

4. A Means to Disconnect the House Power Supply to OWTS Components Shall be Provided at the Control Panel.

5. The Branch Circuit Wire from the Building to the Control Panel Shall be a Minimum of 24" Below the Ground Surface. Lines Buried Less than 24" are Allowed, but Will be Required to be in Conduit or have Ground Fault Protection on the Circuit. Conduit from the Control Panel to the House is Strongly Recommended for All Wiring.

6. Conduit Risers for Physical Protection Must Extend Min. 18" Below Finish Grade.

Best Practices Guidelines: The Following "Best Practices" are Intended to Facilitate Maintenance and Servicing of the Electrical Components Associated with Lift Stations, Dosing Systems, and Treatment Units that are Part of an OWTS.

 The "Quick Disconnect" for the Pump Discharge pipe (i.e. Union) Shall be Located within 6"-12" of the Top of the Riser(s). Electrical Lines at the Septic Tank, Dosing Tank, or Treatment Unit Must be Placed in such a Manner as to Protect them from Damage During Backfill. Conduit from the Control Panel to the House is Strongly Recommended for All Wiring.

 The Floats Shall be Secured to a Separate Float Tree with Approved Connecting Straps or Brackets that will Remain Secure Underwater and Not Deteriorate. Electrical Tape is Not Acceptable. Top of Float Tree to be within 6⁻ - 12" of the Top of the Riser.

 The Risers Shall be Secured to the Tank to Maintain the Riser in an Upright and Plumb Position. Special Care Shall be Taken During Backfill to Ensure Riser Maintains Upright and Plumb Position.

4. Control Panel Shall be Placed within "Line of Sight" of the Pump.

5. The Alarm, Pump Control Floats, and Pump Shall be Placed on a Separate Dedicated Circuits



Project: 15-0349	Project Name and Address)
Sheet: 4 of 4	Elevation Homes
Date: 27 Apr 2016	11655 Bison Meadows Court
Revised:	Lot # 4A, Filing # 2 Bison Meadows S/D,
Drawn by: mas	Sch. No. 5125101006
Checked by: cem	El Paso County, Colorado