

REAL ESTATE TRANSFER - GROUNDWATER HAZARD STATEMENT
TO BE COMPLETED BY TRANSFEROR

TRANSFEROR:

Name Highland Development, Inc

Address 14225 University Ave Suite 225 Waukee IA 50263
Number and Street or RR City, Town or P.O. State Zip

TRANSFeree:

Name Gregory E Opseth

Address 407 N 2nd St Guthrie Center IA 50115
Number and Street or RR City, Town or P.O. State Zip

Address of Property Transferred:

1262 Pitzer Rd Earlham IA 50072
Number and Street or RR City, Town or P.O. State Zip

Legal Description of Property: (Attach if necessary)

Lot One (1) of Scar Estates Subdivision, located in the North Half (1/2) of the Southwest Quarter (1/4) of Section Fifteen (15), Township Seventy-seven (77) North, Range Twenty-nine (29) West of the 5th P.M., Madison County, Iowa.

1. Wells (check one)

- ☒ There are no known wells situated on this property.
☐ There is a well or wells situated on this property. The type(s), location(s) and legal status are stated below or set forth on an attached separate sheet, as necessary.

2. Solid Waste Disposal (check one)

- ☒ There is no known solid waste disposal site on this property.
☐ There is a solid waste disposal site on this property and information related thereto is provided in Attachment #1, attached to this document.

3. Hazardous Wastes (check one)

- ☒ There is no known hazardous waste on this property.
☐ There is hazardous waste on this property and information related thereto is provided in Attachment #1, attached to this document.

4. Underground Storage Tanks (check one)

- ☒ There are no known underground storage tanks on this property. (Note exclusions such as small farm and residential motor fuel tanks, most heating oil tanks, cisterns and septic tanks, in instructions.)
☐ There is an underground storage tank on this property. The type(s), size(s) and any known substance(s) contained are listed below or on an attached separate sheet, as necessary.

5. Private Burial Site (check one)

- ☒ There are no known private burial sites on this property.
- ☐ There is a private burial site on this property. The location(s) of the site(s) and known identifying information of the decedent(s) is stated below or on an attached separate sheet, as necessary.

6. Private Sewage Disposal System (check one)

- ☐ All buildings on this property are served by a public or semi-public sewage disposal system.
- ☐ This transaction does not involve the transfer of any building which has or is required by law to have a sewage disposal system.
- ☐ There is a building served by private sewage disposal system on this property or a building without any lawful sewage disposal system. A certified inspector's report is attached which documents the condition of the private sewage disposal system and whether any modifications are required to conform to standards adopted by the Department of Natural Resources. A certified inspection report must be accompanied by this form when recording.
- ☐ There is a building served by private sewage disposal system on this property. Weather or other temporary physical conditions prevent the certified inspection of the private sewage disposal system from being conducted. The buyer has executed a binding acknowledgment with the county board of health to conduct a certified inspection of the private sewage disposal system at the earliest practicable time and to be responsible for any required modifications to the private sewage disposal system as identified by the certified inspection. A copy of the binding acknowledgment is attached to this form.
- ☐ There is a building served by private sewage disposal system on this property. The buyer has executed a binding acknowledgment with the county board of health to install a new private sewage disposal system on this property within an agreed upon time period. A copy of the binding acknowledgment is provided with this form.
- ☐ There is a building served by private sewage disposal system on this property. The building to which the sewage disposal system is connected will be demolished without being occupied. The buyer has executed a binding acknowledgment with the county board of health to demolish the building within an agreed upon time period. A copy of the binding acknowledgment is provided with this form. [Exemption #9]
- ☐ This property is exempt from the private sewage disposal inspection requirements pursuant to the following exemption [Note: for exemption #9 use prior check box]: _____.
- ☒ The private sewage disposal system has been installed within the past two years pursuant to permit number 031-21.

Information required by statements checked above should be provided here or on separate sheets attached hereto:

**I HEREBY DECLARE THAT I HAVE REVIEWED THE INSTRUCTIONS FOR THIS
FORM
AND THAT THE INFORMATION STATED ABOVE IS TRUE AND CORRECT.**

Signature: _____

(Transferor or Agent)

Telephone No.: (515) 274-3500

GROUNDWATER HAZARD STATEMENT

ATTACHMENT #1

NOTICE OF WASTE DISPOSAL SITE

a. Solid Waste Disposal (check one)

- ☐ There is a solid waste disposal site on this property, but no notice has been received from the Department of Natural Resources that the site is deemed to be potentially hazardous.
- ☐ There is a solid waste disposal site on this property which has been deemed to be potentially hazardous by the Department of Natural Resources. The location(s) of the site(s) is stated below or on an attached separate sheet, as necessary.

b. Hazardous Wastes (check one)

- ☐ There is hazardous waste on this property and it is being managed in accordance with Department of Natural Resources rules.
- ☐ There is hazardous waste on this property and the appropriate response or remediation actions, or the need therefore, have not yet been determined.

Further descriptive information:

I HEREBY DECLARE THAT I HAVE REVIEWED THE INSTRUCTIONS FOR THIS
FORM
AND THAT THE INFORMATION STATED ABOVE IS TRUE AND CORRECT.

Signature: _____

(Transferor or Agent)

Telephone No.: _____

(515) 276-3500

Private On-Site Wastewater Treatment System Construction Permit

This permit shall be posted adjacent to the driveway or construction ingress/egress and be viewable from the county (or private) road.

Permit Number: 031-21

Date Issued: 4/13/2021

Owner: Highland Delpmt-Opsech

Location: 1262 Pitzer Rd.

Lot 1 8.02A | Scar Estates N ½
Sec 15 T77N R29W Penn TWP

This Construction Permit has been issued in accordance with the Madison County Environmental Health Regulations, authorizes the construction of a private on-site wastewater treatment system, and shall be null and void within one year from date issued.

All components of the system must be uncovered for inspection and the system must be approved before it can be put into operation. Notice for inspection must be received within 24 hours in advance (Monday – Friday). For inspection, contact the Madison County Office of Zoning and Environmental Health at (515) 462-2636.

This permit is not transferable.

Madison County
Office of Zoning and
Environmental Health

**Authorization to Construct a
Private On-site Wastewater
Treatment System (POWTS)**

201 W Court Ave.
P.O. Box 152
Winterset, IA 50273-0152
Telephone: (515) 462-2636

Permit Number: **031-21**

Revised

4/12/2021

Issued to: Highland Development-Opseth
Address: 1262 Pitzer Rd.
Earlham, IA 50072

Legal Description: Lot 1 8.02A in Scar Estates N ½ SW Sec 15
PID #250041560024000 Sec 15 T77N R29W Penn TWP

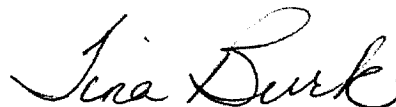
POWTS Components Specifications: 1500 ^{600 Pump} Gal. Septic Tank & ^{600 sq ft. Sand} ~~6 36" Laterals @ 88' ea.~~

*CMT did soils
for laterals. It
cannot be laterals.
Jim Carroll new
report says sand
system.
8/10/21*

General Conditions:

1. System must be constructed in conformance with attached system layout, profiles, and cross-sections.
2. Structures must be constructed in conformance with 567 IAC Chapter 69 and the Madison County Environmental Health Regulations.
3. Permit shall be null and void if system is not constructed within one year of permit issuance. The Environmental Health Officer must approve any request for extension of permit.
4. The Environmental Health Officer must approve any design modifications to the permitted system prior to construction.
5. Once constructed, all system components must be uncovered for inspection and the system must be approved before it can be put into operation. Notice for inspection must be received with 24 hours in advance (8 a.m. through 4:30 p.m., Monday - Friday). If weather necessitates the need to cover the system components, then the system owner or contractor must notify and follow the procedures given by the Environmental Health Officer.

Special Conditions: Max. Trench Depth 36"
At least a 24-hour notice for inspections.



**Environmental Health Officer Assistant
Madison County
Office of Zoning and Environmental Health**

Application to Construct
Private Sewage Disposal System (PSDS)

112 N. John Wayne Dr.
P O Box 152
Winterset, IA 50273
Telephone (515) 462-2636

Office Use Only					Temp E911:	
Tracking No.	Date Received	Fee Paid	Check #	Date Issued	Section/Township	
03121	4/13/21	150.00	9031	4/13/21	15-Permo	

Application will not be accepted until site and soil analysis/percolation information have been received and fee has been paid. For systems requiring an NPDES General Permit #4 (surface discharge), its application must be submitted to this office along with appropriate forms for recording before a permit will be issued.

Please Print All Information.


1. Owner Information (Applicant)			2. Installation Contractor Information		
First Name HIGHLAND DEVELOPMENT, INC.			First Name Rogers Septic		
Last Name			Address		
Address 14225 UNIVERSITY AVE, STE 225			City		
City WAUKEE			State IA		
State IA			Zip 50263		
Phone Number (area code) 515-276-3500			Cell Phone 515-249-9987		
3. System Requirement Information			4. Site and Soil Evaluator (Percolation Test/Soils Analysis)		
IAC CHAPTER 69 DOUBLE COMPARTMENT TANK REQUIRED			PERCOLATION/SOILS ANALYSIS MUST BE COMPLETED AND APPROVED PRIOR TO THE ISSUANCE OF PERMIT		
Minimum Tank Size Required			Date test taken 3/22/21 Test taken by CMT		
1-3 Bedroom 1250			Passed: 3/22/21 Failed: N/A		
4 Bedroom 1500			Percolation Rate: 27 MIN/INCH		
5 Bedroom 1750			Soils Loading Rate: 0.385 GPSE/DAY		
6 Bedroom 2000					

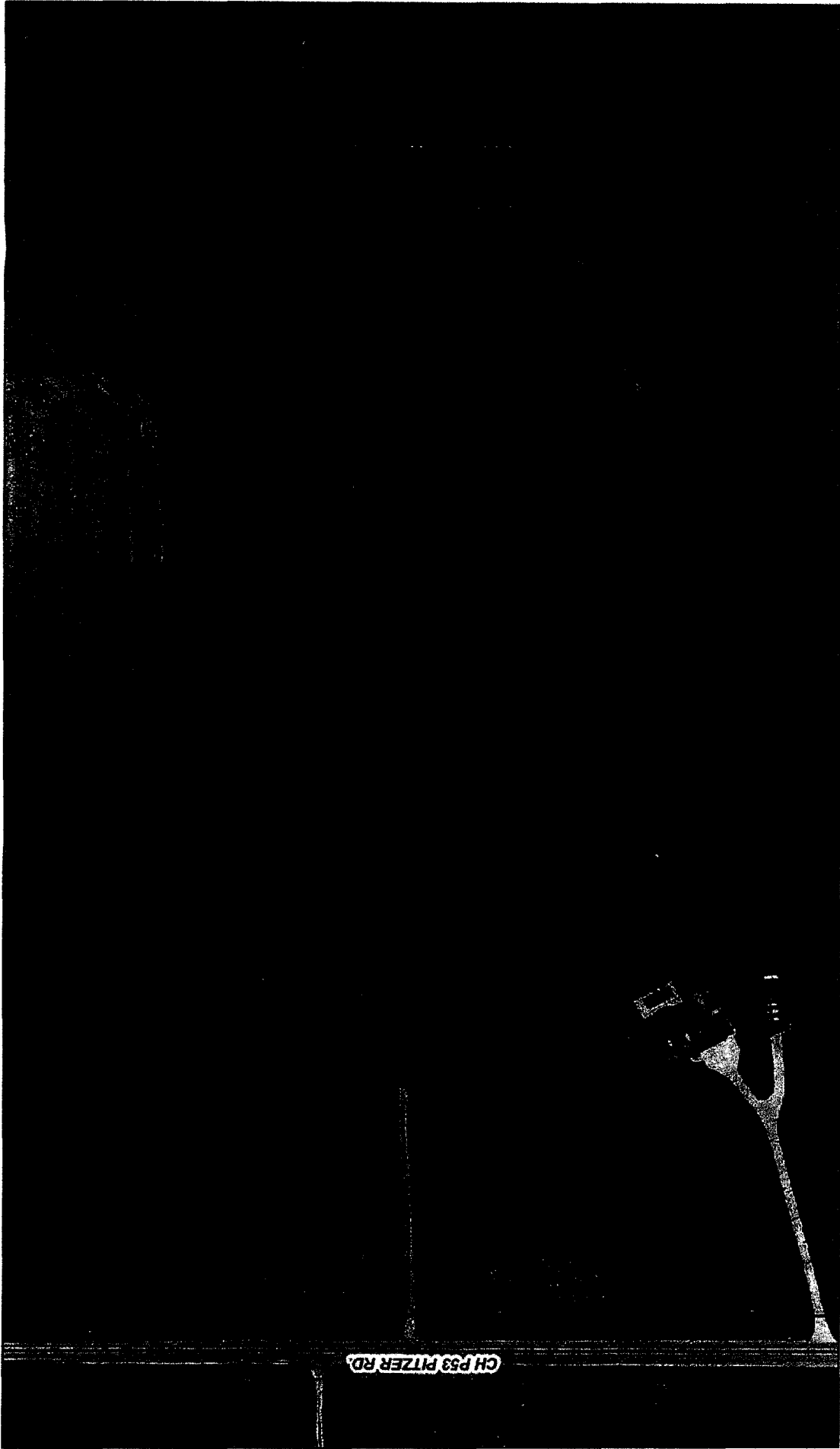
5. Type of Submittal	6. Address Information
<input checked="" type="checkbox"/> New House	911 Address or nearest road: 1262 PITZER ROAD, EARLHAM, IOWA
<input type="checkbox"/> Existing House	Legal Description: LOT 1, 8.02 A IN SCAR ESTATES N 1/2 SEC 15
<input type="checkbox"/> Repair, Tank	PID # 250041560024000
<input type="checkbox"/> Repair, Treatment Area	15-77-29
<input type="checkbox"/> System Replacement	
Previous Permit #:	

7. Type of Building (Completed by Owner)			
Building Square ft.: 3,556	Number of Bedrooms: 4	Number of Bathrooms: 4	Non-Residential uses: N/A
Other buildings served by this system: N/A		Any other circumstances which may affect water usage: NONE	
Water softeners must be routed to a brine pit independent of septic system.			

8. Tanks			
Your contractor or system designer should complete the remaining portion of this application.			
Septic Tank	Type: Poly	Size: 1500	Manufacturer: COON
Pump Tank	Type:	Size:	Manufacturer:
Additional Tank	Type:	Size:	Manufacturer:

9. Secondary Treatment Area					
Laterals	Type: 3/4"	Length of each: 88'	Total number: 6	Maximum trench Depth: 36"	
Sand Filter	Square ft.: 1000	Length: 50	Width: 12		
Peat System	Model:	Manufacturer:			
Other	Description:				

I hereby attest the truth and accuracy of all facts and information presented on this application. Request for inspection of the system must be made 24 hours in advance. Water at the site to test the distribution box must be available. Discharging systems must be covered by a maintenance agreement, which shall be recorded in the Madison County Records Office. Discharging systems also require periodic testing as set forth in IAC Chapter 69 and Madison County Environmental Health Regulations.		It is unlawful to start construction, reconstruction, or repair of any PSDS prior to issuance of a PSDS permit by the Environmental Health Officer.
Applicant Signature: 	Date: 3/29/2021	



Parcel ID	250041560024000	Alternate ID	n/a	Owner Address	OPSETH, GREGORY E & HEATHER M
Sec/Twp/Rng	15-77-29	Class	R		407 N 2ND ST
Property Address	1262 PITZER RD	Acreage	8.02		GUTHRIE CENTER, IA 50115
District	EARLHAM				
Brief Tax Description	PENN EARLHAM EFD LOT 18.02A IN SCAR ESTATES N 1/2 SW SEC 15 (Note: Not to be used on legal documents)				



SEPTIC SYSTEM

SOIL ANALYSIS & DESIGN

1262 PITZER ROAD - EARLHAM

MADISON COUNTY

Project No: 211050EPR

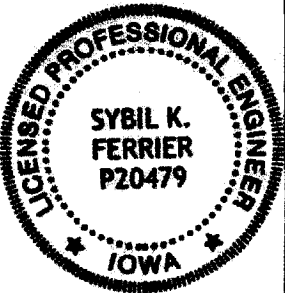
Performed For:

Highland Development
14225 University Ave, Suite 225
Waukee, Iowa 50263

Conducted By:

Construction Materials Testing, Inc.
1610 E. Madison Ave
Des Moines, IA 50313

March 22, 2021

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	<i>Sybil K. Ferrier</i> Sybil K. Ferrier, P.E. License No. 20479	<i>3-22-21</i> Date
My License renewal date is December 31, <i>2022</i> .		
Pages or sheets covered by this seal: <i>All Pages</i> .		

NOT Correct
Sybil says her mapping or files or something got messed up, that is why she did this incorrect. Soils were actually clay



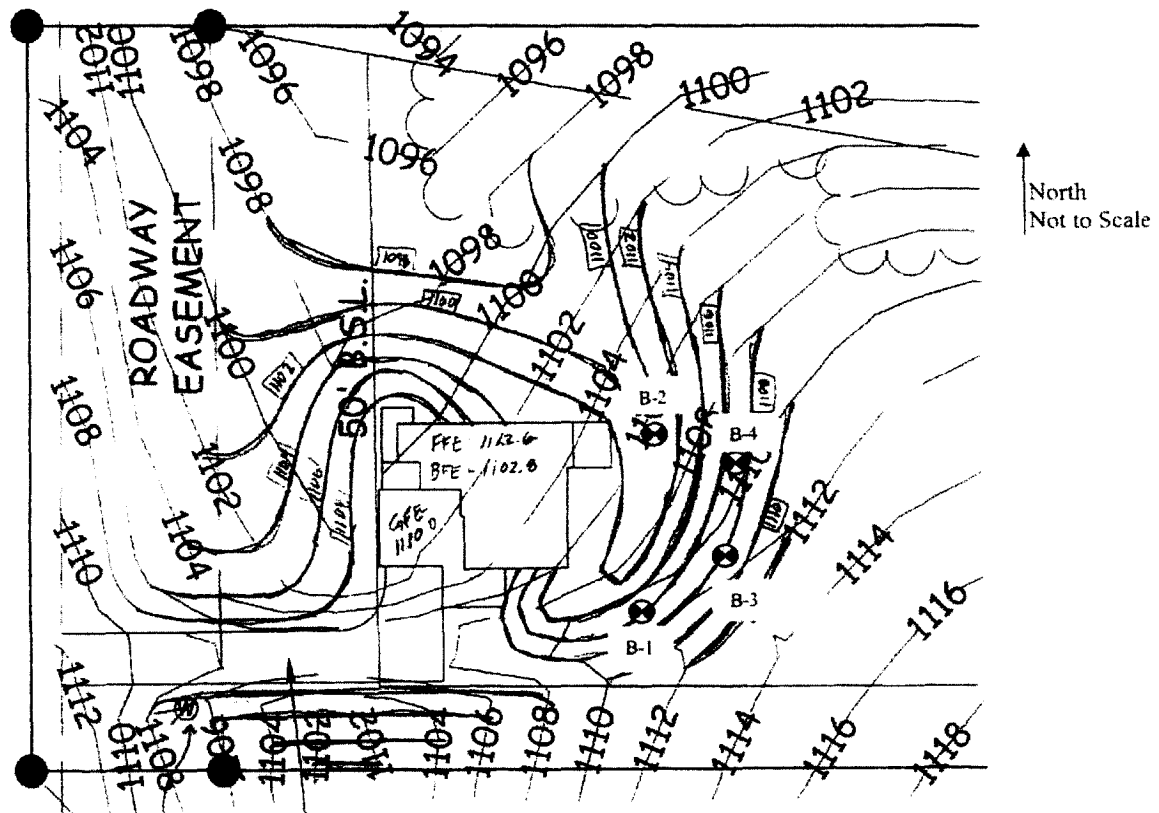
March 22, 2021

Project No. 211050EPR

Highland Development
14225 University Ave, Suite 225
Waukee, Iowa 50263

Re: Septic Design
1262 Pitzer Road – Earlham
Madison County

The following is a report designed to determine potential septic field locations and determine soil classifications for your project in Madison County, Iowa.

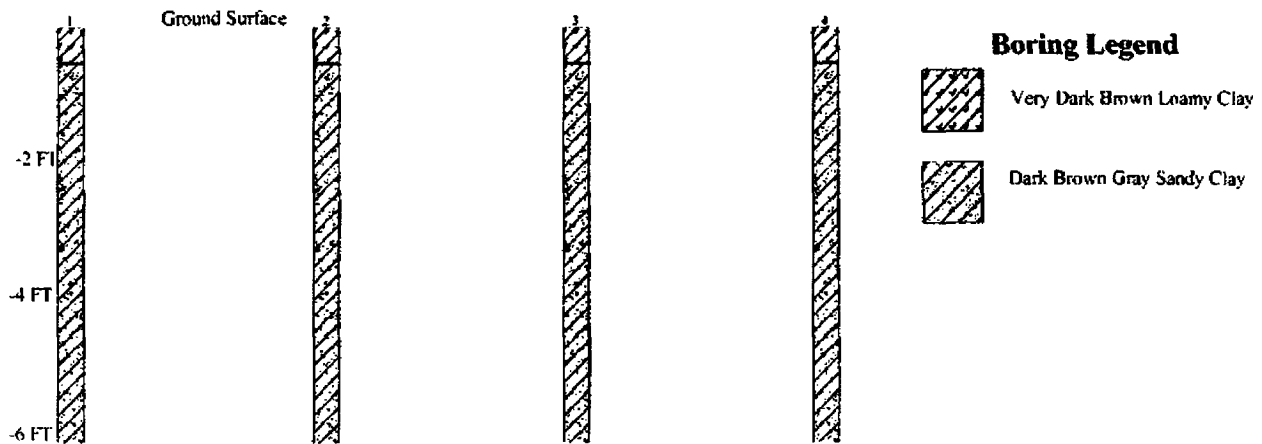


- B-1 45 ft southeast of the southeast corner of the home
- B-2 20 ft east of the northeast corner of the home
- B-3 50 ft northeast of B-1
- B-4 40 ft southeast of B-2

1610 East Madison Ave. • Des Moines, Iowa 50313
(515) 263-0794 • Fax (515) 263-0851
www.cmt-iowa.com

Construction CMaterials Testing

The test results indicate that the soil will support a lateral system. This system will be a new system. General locations were provided by measurement. When the septic field area is determined, please refrain from using equipment that will compact the soil during the construction and site clearing process. This report should be forwarded to Madison County officials in order to expedite the construction of the septic system. Please refer to the above Site Plan for a layout of the septic field.



Bedrooms: 4

Design Flow: 600 GPD

Structure: New Home

Soil Loading Rate: 0.385 gpsf/day

Based on Surface Area of: Trench Bottom

Water Table: No free water at 6 ft

Maximum depth of Trench: 36 inches

Percolation Rate: 27 min/inch

Depth to Restrictive Layer: None

2-Foot Wide Trench: 780 ft

3-Foot Wide Trench: 520 ft

Soil Structure: Moderate



Notes and Recommendations:

1 This site consists of typical soil for the area, it has a profile that gently slopes to the north and east at a rate of 1.5 ft per 100 feet. Locations of test holes are noted on the above drawing.

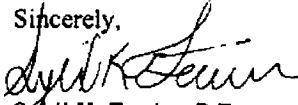
The topsoil is approximately 6 inches thick in the septic field area. Beneath this layer is a higher permeable dark brown-gray sandy clay that begins beneath the topsoil and extends down to a depth of at least 6 feet below the ground surface.

2 Proper maintenance of the septic system will extend the useful life span of the system. Any changes to the information used to produce this report will nullify its recommendations and information. Changes will require written documentation from our office to be incorporated at this location.

3 Care should be taken to maintain the septic system area during and after construction. The system will require a new tank. A 1,500 gallon tank is required. Please ensure the lateral field area is not compacted during installation. Prior to the installation of the system, please provide information to the county regarding equipment type and size. A licensed septic contractor is required in Madison County.

Please feel free to call our office, should you have any questions or if we may be of any further assistance.

Sincerely,


Sybil K. Ferrier, P.E.
Principal Engineer

SP/SF

Disclaimer:

The contractor is solely responsible for locating all underground utilities shown or not shown, and for the safety and protection of all such underground utilities and repairing any damage. In the event that any item is located in the proposed septic area the Engineer will be called to re-evaluate the site. The Engineer will not be inspecting or overseeing any of the work performed by the Contractor. All work performed by the Contractor shall comply with IAC 567 Chapter 69 and County Ordinances unless specifically show/detailed in this report and design. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or any failure of contractor to comply State and County Laws and Regulations applicable to the performance of the work.

Engineer will not be responsible for Contractor's failure to perform the work in accordance with State and County requirements and attached design. Engineer will not be responsible for the acts or omissions of Contractor, any Subcontractor, any Supplier, or of any other individual or entities performing any of the work, or the failure of any State or County Regulator accepting the work completed. The Property Owner, Home Builder, and Septic Contractor agree that by using this report/design for the onsite system they shall indemnify and hold harmless the Engineer from and against all losses and claims, demands, payments, suits, actions, recoveries, and judgement of every nature, and description brought or recovered against them by reasons of any act or omission of the said property Owner, Home Builder, and Septic Contractor, its agents, or employees, in the execution of the work.

OWNER NAME: Highland Development
OWNER ADDRESS: _____
PROPERTY ADDRESS: 1262 Pitzer RD
LEGAL DESCRIPTION: Earlham

PHONE # _____ LOT SIZE: _____ acres
*NO. BEDROOMS: 4 AVE. DAILY FLOW 250 PEAK DAY DESIGN FLOW 600 gallons STRUCTURE X NEW EXISTING
BUILDER: Highland Development PLUMBER: Rogers Septic

THE TREATMENT SITE SHALL BE PROTECTED FROM ANY AND ALL TRAFFIC, AND ANY SOIL DISTURBANCES.
DISTURBING THE TREATMENT SITE SHALL VOID THIS RECOMMENDATION.

THE USE OF THIS DESIGN TO OBTAIN THE ONSITE WASTEWATER COUNTY CONSTRUCTION PERMIT AND THE
CONSTRUCTION OF THE ONSITE SYSTEM IS AN ACCEPTANCE OF THE CONDITIONS ON PAGES 1&2 OF THIS REPORT.

The owner/builder and septic contractor are responsible for verifying that the system layout is within the property boundaries. James Carroll has not verified the property or easement boundaries.

The septic system shall be constructed in accordance with Chapter 69 and County requirements unless specifically shown otherwise in this report. * The number of bedrooms was provided by others and was NOT verified by James Carroll.

The minimum size septic tank for 4 bedrooms is 1,500 gallons.

The soils are not suitable for laterals or mounds. I tested this lot July of 2017 for a different Owner. The area I tested was south of the proposed house. The soil south of the house are basically the same as tested today.

I recommend a pump dosed sand filter.

See attached design



SOIL LOADING RATE 0 gsf.				BASED ON SURFACE AREA OF TRENCH BOTTOM.			
WATER TABLE/CONFINING AT 0		FEET		2-FOOT WIDE TRENCH 0		FEET	
MAXIMUM DEPTH OF TRENCH 0		INCHES		3-FOOT WIDE TRENCH 0		FEET	
				16-INCH WIDE CHAMBER 0		FEET	

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

James A. Carroll
James A. Carroll P.E.

DATE: 8/9/21 REG. NO. 11328 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021.
Number of Pages With Report 4

Soil Probe Number

Confining Layer Location (*)

1	2	3	4	5
DGB CL, MSt	1 probe hole			
1	1	1	1	1
GB, CL MSt	2	2	2	2
2	2	2	2	2
DYB SCL	3	3	3	3
3	3	3	3	3
Yellowish red /Gray/Reds Clay	4	4	4	4
4	4	4	4	4
WSt	5	5	5	5
5	5	5	5	5
6	6	6	6	6
6	6	6	6	6

Textures S-Sand, SL-Sandy Loam, L-Loam, SiL-Silty Loam, Si-Silt, SCL-Sandy Clay Loam, SC-Sandy Clay, CL-Clay Loam, SiCL-Silty Clay Loam, SiC-Silty Clay, C-Clay, FS-Fine Sand.

Color DYB-Dark Yellow Brown, DB-Dark Brown, YB-Yellow Brown, Y-Yellow, B-Brown, VDB-Very Dark Brown, GB-Gray Brown, G-Gray, LG-Light Gray, DG-Dark Gray, PB-Pale Brown, BY-Brownish Yellow, BK-Black, Wh-White, RB-Reddish Brown, R-Red.

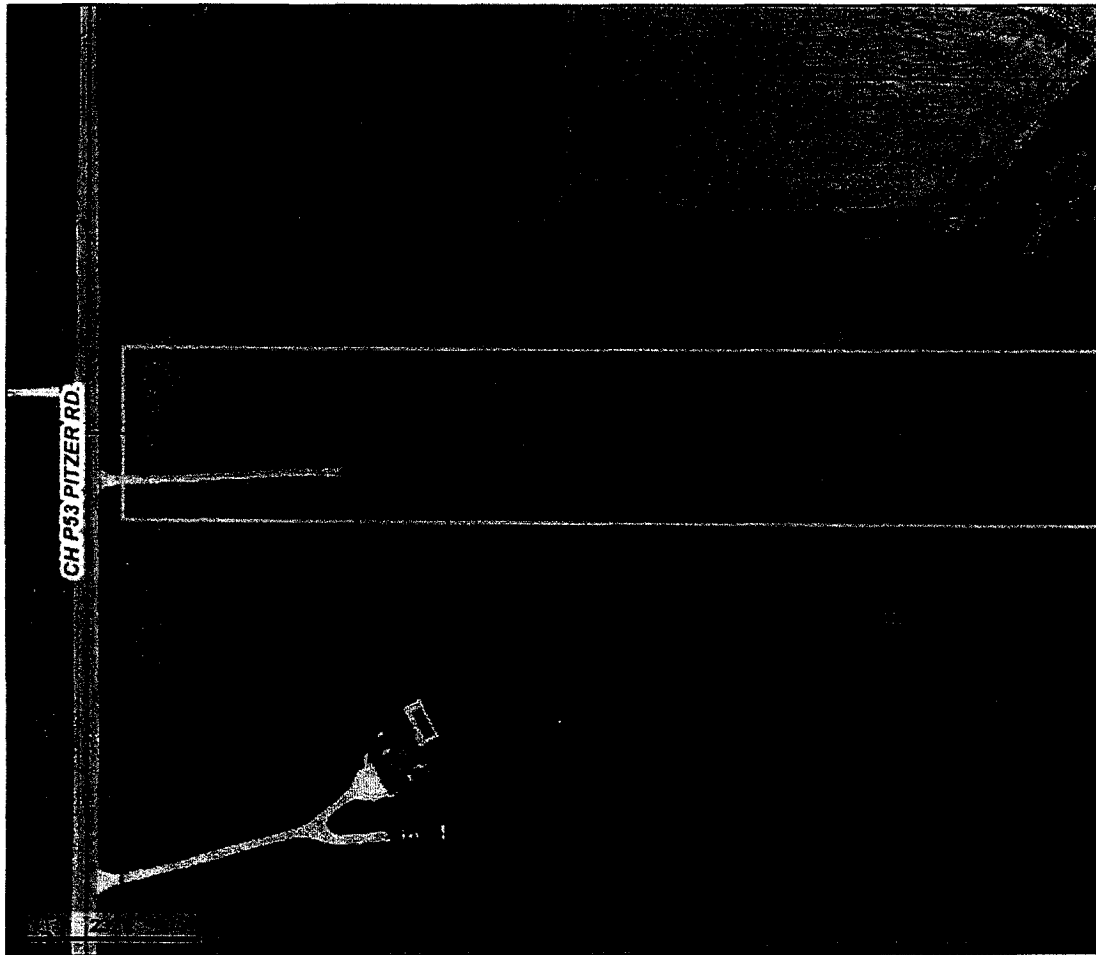
Other MSt-Moderate Structure, WSt-Weak Structure, MaSt-Massive Structure, Ls-Loose, HVY-Heavy, Lt-Light.

The use of this design to obtain the onsite wastewater county construction permit and the construction of the system is an acceptance of the following conditions:

The septic system Engineer, James Carroll, has evaluated the site and located what appears to be a suitable location for an onsite septic system. However easements, floodplains, wetlands, wells, property lines, underground utilities were not marked, located or identified to the Engineer. The drawing may contain any or all of these items however they are not accurately shown. It is the responsibility of the Property Owner, Home Builder, and Septic Contractor to locate any and all of these items. The contractor is solely responsible for locating all underground utilities shown or not shown, and for the safety and protection of all such underground utilities and repairing any damage. In the event that any item is located in the proposed septic area the Engineer will be called to re-evaluate the site.

The Engineer will not be inspecting or overseeing any of the work performed by the Contractor. All work performed by the Contractor shall comply with IAC 567 Chapter 69 and County Ordinances unless specifically show/detailed in this report and design. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of contractor to comply with State and County Laws and Regulations applicable to the performance of the work. Engineer will not be responsible for Contractor's failure to perform the work in accordance with State and County requirements and the attached design, Engineer will not be responsible for the acts or omissions of Contractor, any Subcontractor, any Supplier, or of any other individual or entities performing any of the work, or the failure of any State or County Regulator in accepting the work Completed.

The Property Owner, Home Builder, and Septic Contractor agree that by using this report/design for the onsite system they shall indemnify and hold harmless the Engineer from and against all losses and all claims, demands, payments, suits, actions, recoveries, and judgment of every nature, and description brought or recovered against them by reasons of any act or omission of the said Property Owner, Home Builder, and Septic Contractor, its agents, or employees, in the execution of the work.



Overview



Legend

- ☐ Parcels
- ☐ Townships
- ☐ Sections
- ☐ City Limits
- ☐ Road Centerlines

Parcel ID	250041560024000	Alternate ID	n/a	Owner Address	HIGHLAND DEVELOPMENT INC
Sec/Twp/Rng	15-77-29	Class	R		14225 UNIVERSITY AVE
Property Address	1262 PITZER RD	Acreage	8.02		SUITE 225
	EARLHAM				WAUKEE, IA 50263
District	PENN EARLHAM EFD				
Brief Tax Description	LOT 18.02A IN				
	SCAR ESTATES				
	N 1/2 SW SEC 15				
	(Note: Not to be used on legal documents)				

Date created: 8/9/2021
Last Data Uploaded: 8/9/2021 9:20:43 PM

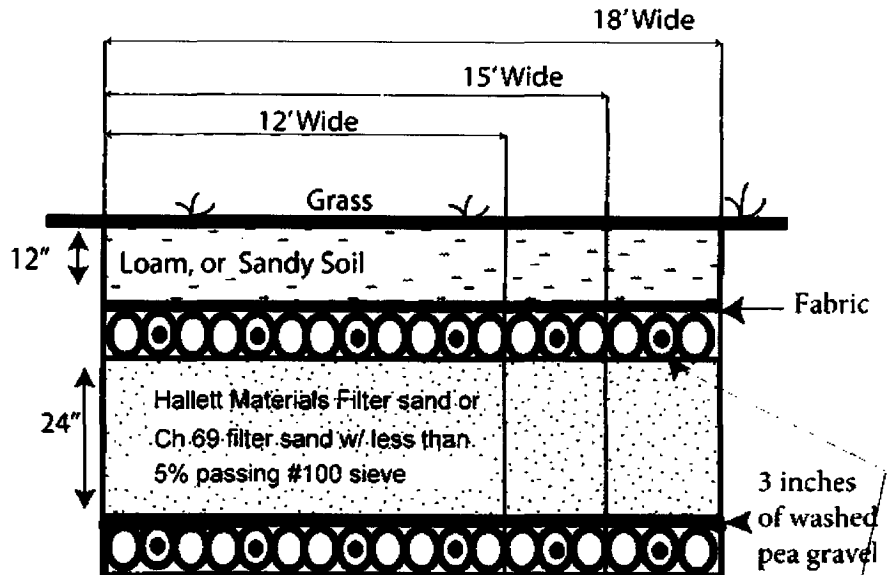
Developed by  **Schneider**
GEOSPATIAL

PUMPED dosed EZ FLOW pipe option Project

# of Bedrooms	Ft ²
2	300
3	450
4	600
5	750
6	900

The top and bottom of the sand filter shall be covered with EZ-Flow W/ a 4" pipe in the center of each 3 bundle pack.

DO NOT use goetextile wrapped bundles. Place EZ Flow with internal pipe 6" from sand on both top and bottom layers.

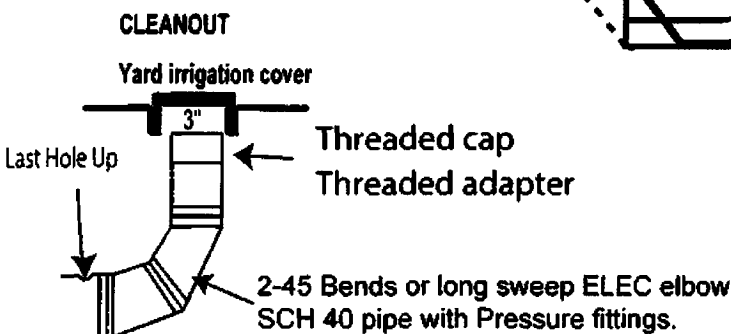
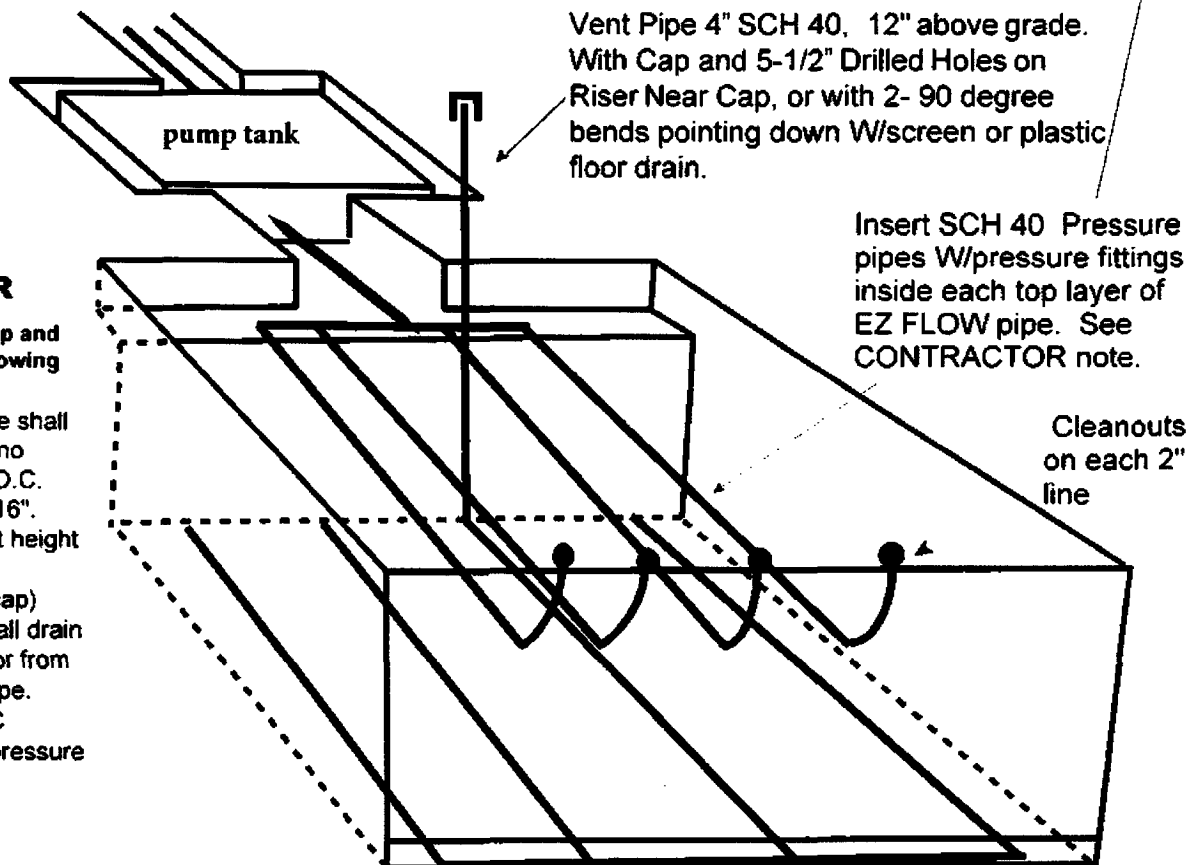


*Bottom of Bed Shall be level on width. Length sloped down towards outlet pipe 1/2" to 1" per 10 feet (0.5 to 1%)

CONTRACTOR

SHALL size the Pump and Pipe to meet the following Requirements:

1. The pressure pipe shall have holes spaced no greater than 4 feet O.C.
2. Holes shall be 3/16".
3. Minimum 3' squirt height measured from pressure pipe, (not cap)
4. Pressure pipe shall drain back to pump tank or from tank to sand filter pipe.
5. Use SCH 40 PVC pressure pipe and pressure fittings.



TO OUTLET

Protect Outlet From Freezing and Flooding.
4" PVC SDR 35 or stronger

CH P53 PITZER RD.

Parcel ID 250041560024000
Sec/Twp/Rng 15-77-29
Property Address 1262 PITZER RD
EARLHAM

District
Brief Tax Description

Alternate ID n/a
Class R
Acreage 8.02

PENN EARLHAM EFD

LOT 1802A IN

SCAR ESTATES

N 1/2 SW SEC 15

Owner Address HIGHLAND DEVELOPMENT INC

14225 UNIVERSITY AVE

SUITE 225

WAUKEE, IA 50263

(Note: Not to be used on legal documents)

MADISON COUNTY ENVIRONMENTAL HEALTH DEPARTMENT
PRIVATE SEWAGE SYSTEM INSPECTION REPORT
Sand Filter System

GENERAL INFORMATION

Owner: <u>Highland Development-Opsech</u>	Contractor: <u>Rodgers</u>
Address: <u>1262 Pitzer Rd</u>	Inspector: <u>Kinnard</u>
Inspection Date: <u>8-11-21</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied

S = Satisfactory U = Unsatisfactory NA = Not Applicable

S U NA

SITE PREPARATION

<input checked="" type="checkbox"/> Septic Permit Issued # <u>031-21</u>
<input checked="" type="checkbox"/> Soils Analysis ID <u>Carroll</u>
<input checked="" type="checkbox"/> System Exposed for Inspection

S U NA

SETBACKS

Minimum Setbacks to Closed/Open Portions of Septic System

<input checked="" type="checkbox"/> Private Water Well	50'/100'
<input checked="" type="checkbox"/> Shallow Public Water Well	200'/400'
<input checked="" type="checkbox"/> Deep Public Water Well	100'/200'
<input checked="" type="checkbox"/> Heat Pump Borehole	50'/100'
<input checked="" type="checkbox"/> Lake or Reservoir	50'/100'
<input checked="" type="checkbox"/> Stream or Pond	25'/25'
<input checked="" type="checkbox"/> Edge of Drainage Ditch	10'/10'
<input checked="" type="checkbox"/> Dwelling or Other Structure	10'/10'
<input checked="" type="checkbox"/> Property Lines	10'/10' (unless an easement signed & recorded)
<input checked="" type="checkbox"/> Other Subsurface Treatment Systems	5'/10'
<input checked="" type="checkbox"/> Water Line Under Pressure	10'/10'
<input checked="" type="checkbox"/> Suction Water Line	50'/100'
<input checked="" type="checkbox"/> Foundation Drain or Subsurface Tiles	10'/10'

S U NA

SEWER PIPE FROM BUILDING TO PRIMARY TREATMENT

<input checked="" type="checkbox"/> Minimum Setbacks to Wells	Private Wells 10' / Public Wells 25'
<input checked="" type="checkbox"/> Material	Sch.40 Plastic Pipe (or SDR 26 or Stronger) or Cast Iron
<input checked="" type="checkbox"/> Cleanouts	At Building & every 100' & each >45° Direction Change

S U NA

PRIMARY TREATMENT – SEPTIC TANK

<input checked="" type="checkbox"/> Gallon Capacity	<input type="checkbox"/> 1250 <input checked="" type="checkbox"/> 1500 <input type="checkbox"/> 1750 <input type="checkbox"/> 2000 <input type="checkbox"/> Other
<input checked="" type="checkbox"/> Watertight Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Fiberglass <input checked="" type="checkbox"/> Plastic (ribbed const.)
<input checked="" type="checkbox"/> Manufacturer	
<input checked="" type="checkbox"/> Compartments	At least 2 Compartments or 2 tanks in series
<input checked="" type="checkbox"/> Influent Compartment	1/2 to 2/3 of total tank capacity
<input checked="" type="checkbox"/> Effluent Compartment	1/3 to 1/2 of total tank capacity
<input checked="" type="checkbox"/> Inlet	2" to 4" higher than outlet
<input checked="" type="checkbox"/> Baffles	4" Diameter Schedule 40 plastic tees
<input checked="" type="checkbox"/> Effluent Screen	Meets NSF Standard 46 or equivalent

<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Watertight Risers	Minimum 18" Diameter at or above ground surface
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Inlet/Outlet Connections	Self-sealing gaskets formed or cast into tank material
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Schedule 40 Pipe	At least 5' past outlet & 2' past disturbed ground

S U N A

DOSING SYSTEMS

<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Type	<input checked="" type="checkbox"/> Pump <input type="checkbox"/> Siphon <input type="checkbox"/> Other:
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Watertight Pit	At least 24" in diameter
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Watertight Riser	With tight-fitting cover at or above ground level
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pump	Submersible Pump of corrosion-resistant material
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pressure Line Size	Not smaller than outlet of pump it serves
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pressure Line Drainage	Drains between dosing or buried below frost level
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> High Water Alarm	Visual or Audio Alarm to alert of high water in pit
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Electrical Connection	No Connections located inside pump pit

S U N A

Distribution Box

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Placement	Placed on undisturbed soil.
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Material	Corrosion-resistant rigid plastic
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Baffle	Pipe tee or baffle at inlet.
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Outlet heights	Outlets at same level and min. 4" above bottom of box.
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Levelers	Outlets equipped with leveling device for equal flow.
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unused Outlets	Securely closed.
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Header Pipes	Rigid PVC (ASTM Standard 2729 or stronger).

Subsurface Sand Filter Bed(s)

<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Filter Beds	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Type	<input type="checkbox"/> Gravity <input type="checkbox"/> Siphon-Dosed <input checked="" type="checkbox"/> Pressure-Dosed
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Size	Required: <u>600</u> sqft Installed: <u>600</u> sqft
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> No. of Collection Lines	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Collection Line Material	4" SDR 35 or stronger PVC or approved material
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Distribution Vent	Distribution lines tied to a common vent.
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Sampling	Sampling available at discharge or sample port installed.
Depth of layers (bottom to top)	
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Collection lines and river gravel	8"
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pea Gravel or Fabric	<input type="checkbox"/> Pea Gravel (3") <input checked="" type="checkbox"/> Fabric
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> DOT Concrete Sand	24"
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Distribution lines and river gravel	12"
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Pea Gravel or Fabric	<input type="checkbox"/> Pea Gravel (3") <input checked="" type="checkbox"/> Fabric
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Soil Backfill	12"

This report and the corresponding permit indicate the condition of the above-mentioned private sewage system at the time of inspection. To the best of my knowledge, all listed local & state ordinances have been adhered to. This does not guarantee the future condition or proper function of the system.

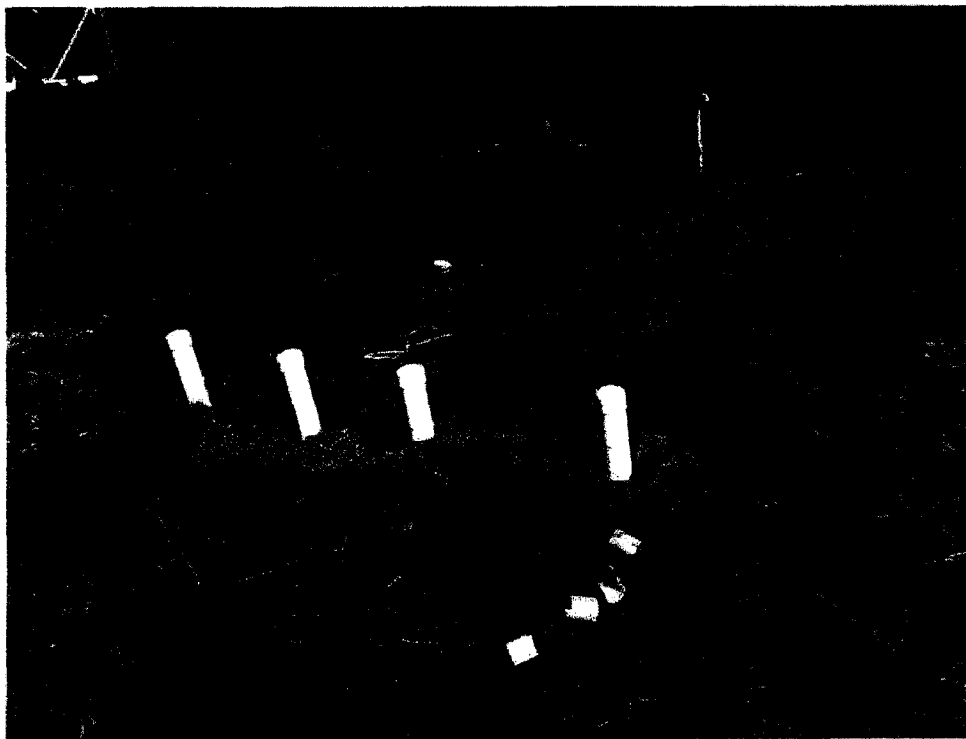
Brodie Kinner
Inspector

8-11-21
Date

Permit # 031-21

1262 Pitzer Rd.

8/11/2021







031-21
1262 Pitzer Rd.
8-11-21

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