Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

DEC 17 2014

A

Permit Number
HS0 01611

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

Include Form B and C. Submit correct fee with this Application

3 acres or more required for: ❑ Septic System ❑ Lagoon ❑ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location Princeton

Address 1301 Princeton Rd (no rural route) City Martell, NE Zip 68404

Legal Description Prairie Corner Addn. L.2

1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 67-24-101-002-000 SB

B. Owner

Name Kevin Frank Signature by Rob Cont.

Address 3224 E. Prairieview City/State/Zip Lincoln, NE 68504

Home Phone Aspen - 423-6811 Work Phone

C. Certified Installer

Name: Bob Benes Signature

Address 1633 Normandy Ct. City/State/Zip Lincoln, NE 68512

Work Phone 402-423-6811

D. Engineer ❑ **Check and complete if engineer designed system** P.E. License Number:

Designer Name Firm Work Phone

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 5 Whirlpool Bathtub? ☑ Yes ❑ No Total Acres 20

Garbage Grinder? ☑ Yes ❑ No

❑ Commercial Establishment/Other Facility Specify Design flow in gallons per day

Type of Wastewater ❑ Domestic ❑ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ❑ Municipal Code 24.38 ❑ County Resolution No. 02-30

1. Health Department

Site visits Date rec'd ACTION ❑ Approved ❑ Disapproved

Date frwd Signature

Comments

2. Supt. Bldg. Insp. or Village Clerk

Comments Date rec'd ACTION ❑ Approved ❑ Disapproved

Date frwd Signature

3. City or County Engineer

Comments Date rec'd ACTION ❑ Approved ❑ Disapproved

Date frwd Signature

Installation Final Written Approval

By

Date

Business Office Use Only
Date Received 12-18-14 Amount Paid $375.00
Received By SB Cash/Check No. 16565

White - Health Department Yellow - Engineer Pink - Building & Safety

DEC 17 2014

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

B

Permit Number: HS001611

Sewage Disposal System

Soil Absorption Test Data Report

Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 1301 Princeton Rd. (no rural route) City Martell NE, Zip 68404

Owner Kevin Frank Address 3224 E. Plainview Lincoln, NE

Soil Type (SCS): Wymore silty clay loam Percolation Rate: 15 min./inch

Date of Tests 12-8 to 12-9 Weather: Precipitation 0 Temperature 40°

Percolation Test Data Table

A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.
		Pre-Saturation Period				Percolation Readings					Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (in)	Percolation Rates (Min/in)
1	30	12-8	10AM	12-9	10AM	12-9	10:05	24"	12-9	:35	30	2.0"	15
2	34						:06	22"		:36		2.4"	12.5
3	34						:07	29"		:37		3.1"	9.6
4	32						:08	28"		:38		2.0"	15
5	36						:09	27"		:39		2.4"	12.5
6	34						:10	31"		:40		2.1"	14

Sum of Percolation Rates: 78.6
Average of Rates: 13.1
Rate Used for Calculation: 15

Person Conducting Percolation Tests

Name: Bob Bates
Phone: 402-416-9660
Address 1433 Normandy Ct.
Lincoln, NE 68512

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official _____ Date _____

FORM 23-101 10-98

DEC 17 2014

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

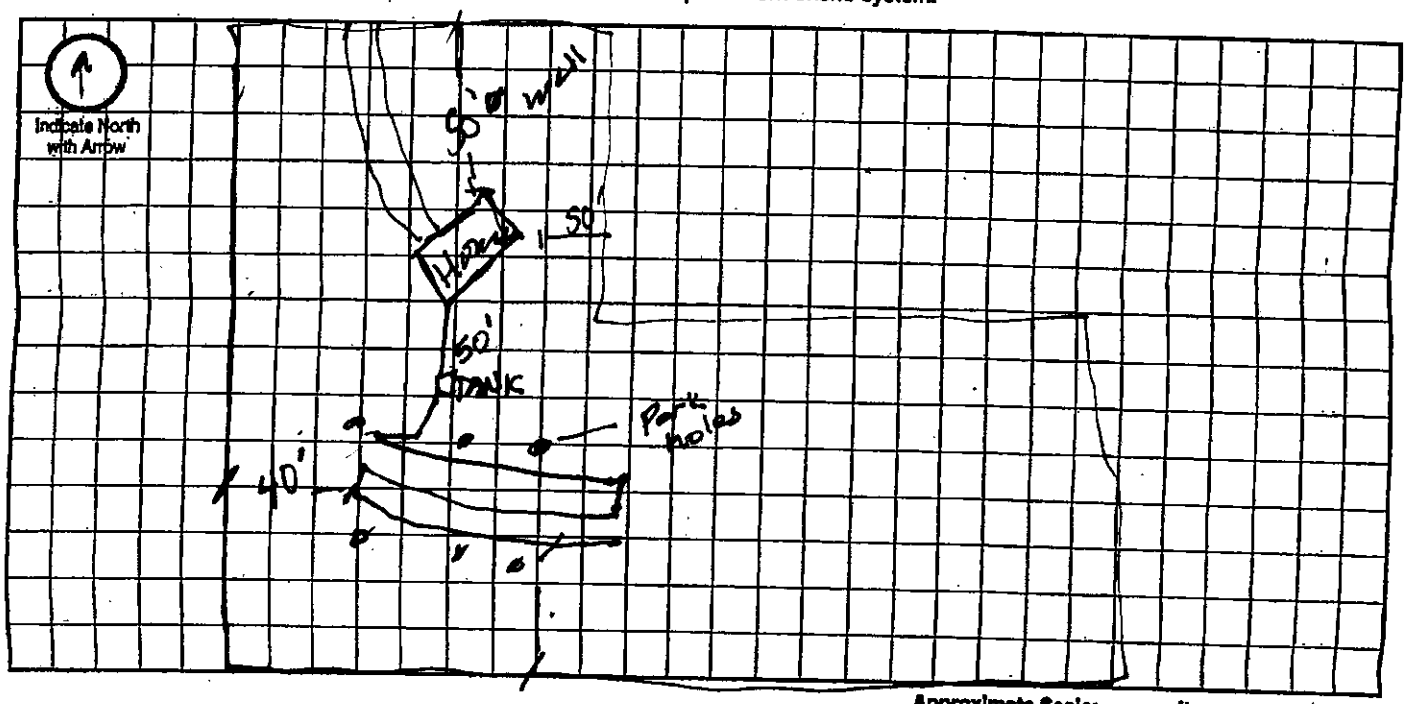
C

Permit Number: HSO01011

Onsite Wastewater Treatment System

Preliminary Plan Specifications

Draw a plot plan showing onsite system sewer lines, drop of distribution boxes, tank, drainfields, percolation test holes, well, residence, direction of groundwater flow, property lines, and reserve area for replacement onsite system.



Approximate Scale: _____ ft. = _____ grid line/s

A. Onsite System Location

Address (no rural route) 1301 Princeton Rd. City Martell NE, Zip 68404

B. Proposed Septic Tank/s

Septic Tank Cap. 2000 gals Tank Material: ☐ Concrete ☒ Plastic ☐ Other _____ ☐ Lagoon (Max. seepage 1/8" per day)

C. Reserve Area for Replacement Onsite System

☒ Drainfield Absorption Area (percolation test required) ☐ Lagoon

D. Drainfield Absorption System

Percolation Rate 15 (min/inch = mpi) No. of Bedrooms 5 Soil Type Wymore Land Slope 1-2%

☒ Trench ☐ Bed ☐ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield 1050 sq.ft.

Total length of laterals 288 Type of distribution: ☐ Perforated pipe ☐ Half-Round ☒ Chamber ☐ Other

No. of absorption trenches 2 Width 3' No. of drop boxes 0 Distrubtion Box 0

No. of absorption beds _____ Width _____ No of Distribution lines per bed _____

E. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☑	500 ☑	50 ☑	NA ☑	25 ☐	20 ☐	15 ☐	25 ☐	☐
Field (ft)	100 ☑	500 ☑	50 ☑	4 ☑	30 ☑	20 ☐	30 ☑	40 ☑	☐
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

F. Required Signatures

Home Building Contractor _____ Date _____

Installer _____ Date 12-15-14

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS001011

System Type: Standard

Situs: 1301 PRINCETON RD RURAL NE

Issued: 12/22/2014

Expires: 12/22/2015

Description: PRAIRIE CORNER ADDITION, Lot 2

Owner: FRANK, KEVIN J & TAMI R
3224 E PRAIRIEVIEW
LINCOLN, NE 68504

Judith A Halstead
Judith A. Halstead, MS, Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Judith A Halstead
Judith A. Halstead, MS
Health Director

ASPEN BUILDERS
1633 NORMANDY COURT, STE B
LINCOLN, NE 68512

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCT/ INSTALL EXTENSION PERMIT
No. HS001011

System Type: Standard

Situs: 1301 PRINCETON RD RURAL NE

Issued: 12/23/2015

Expires: 6/22/2016

Description: PRAIRIE CORNER ADDITION, Lot 2

Owner: FRANK, KEVIN J & TAMI R
3224 E PRAIRIEVIEW
LINCOLN, NE 68504

Judith A Halstead
Judith A. Halstead, MS, Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Judith A Halstead
Judith A. Halstead, MS
Health Director

ASPEN BUILDERS
1633 NORMANDY COURT, STE B
LINCOLN, NE 68512

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

Exhibit 5

Permit Number: HS0010 11

Onsite Wastewater Treatment System

Inspection Sheet

Date 12/31/15 Legal Description 24 / 7 / 10
¼ ¼ Section/Township/Range

Onsite System Location

Address (no rural route) 1301 Princeton City Martell

Owner Kevin Frank Address 3224 E Prairieview Cir NE 68504

Mark One: ☒ Dwelling ☐ Non-dwelling

☒ New System ☐ Alteration [☐ Tank Only ☐ Trench Only] ☐ Lateral Only

☐ Temporary modification (Describe problem causing discharge and reason for temporary modification): _____

Drainfield Absorption System:

☒ Lateral ☐ Bed ☐ Non-standard (engineer-designed ~~and NDEQ~~ approved) ☐ Holding Tank ☐ Trench

Total square feet of drainfield ~~240~~ 1050+ (1051.25) Sq. Ft. Tank Size 2 · 1000 gals

Total length of laterals ~~240~~ 290 Type of Distribution: ☐ Chamber ☐ Perforated Pipe ☐ Other (describe) _____

No. of Absorption Laterals 30" Width _____ No. of Drop Boxes _____ Distribution Box _____

Leveling Method Used na

Setbacks (Check the Boxes Below if the Required Setback has been Satisfied):

Distance From	Private Well	Public Well	Surface Water	Ground water	Pressure Water Lines	Property Lines
Tank (ft)	*50 ☐	500 ☐	50 ☐	NA ☐	10 ☐	5 ☐
Field (ft)	100 ☐	500 ☐	50 ☐	4 ☐	25 ☐	5 ☐

Geographical Coordinates to 6 Decimals:

Tank na

Lateral #1 na Lateral #3 na

Lateral #2 na Lateral #4 _____

Comments:

Inspections prior to Final Approval
Initial JM Date 12/31/15

Follow-Up _____ Date _____

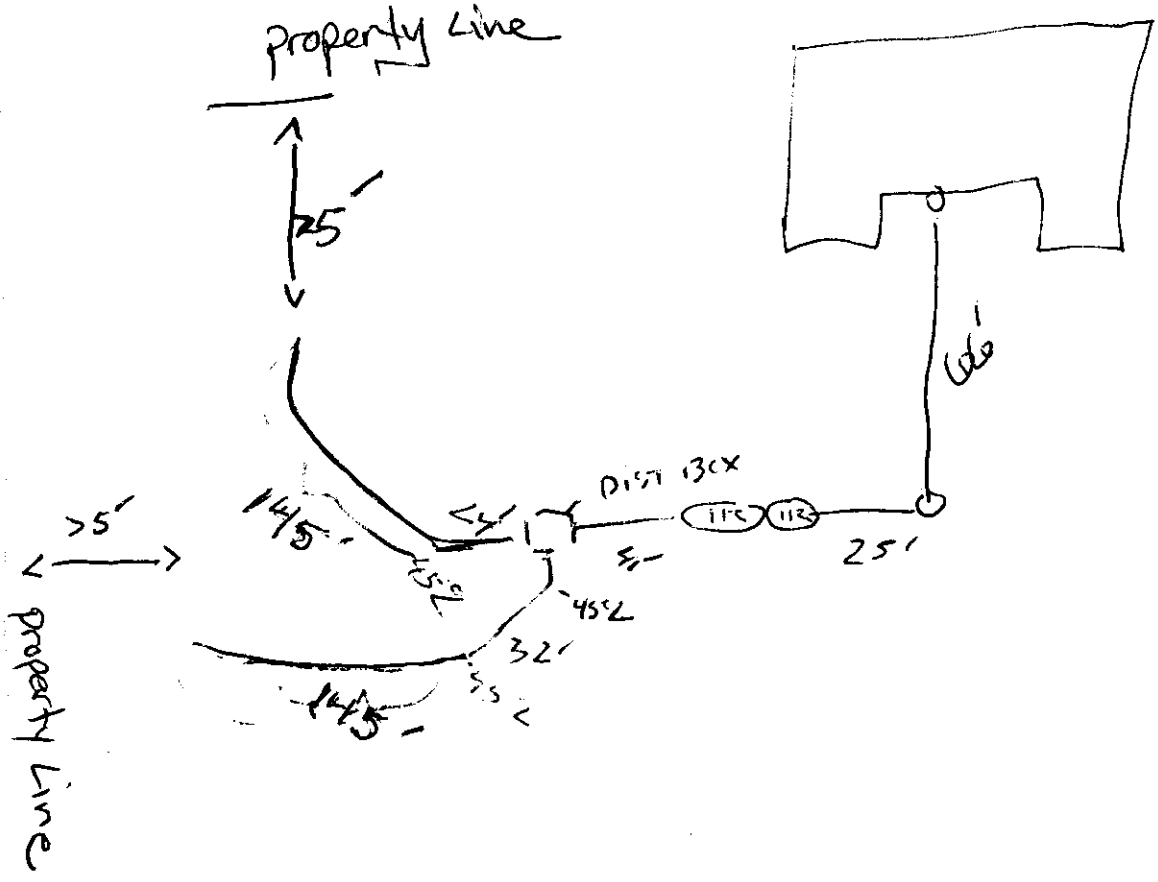
Follow-Up _____ Date _____

Installation Final Written Approval
By James V Person
Date 12/31/2015

Field Note Drawing (See Reverse Side):

N

5 BDRM - 600 GPD
PERC =
Tank = 2000 (2-1000)
ft^2 Field = 1050 ft^2
ARC 36 HC = (289.5 ft)



7-6-24

JAN 27 2016

D

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street · Lincoln, NE 68510-1514
Phone: 402-441-8022

Permit Number: 45001011

Sewage Disposal System

As Built Plans & Specifications

Date 1-15-16

System Location (Indicate correct number and street)

Address 1301 Princeton Rd (no rural route) City Princeton NE, Zip

A. Building Sewer

1. Material: PVC
   Diameter: 4" in.
2. Distance above basement floor: ____ in.
   or distance below basement floor: 10 in.
3. Distance between dwelling and septic tank: 60 ft.
4. Number of clean-outs: 1
5. Distances to: well or suction line 65 ft.
   stream - ft.
   pressure line 50 ft.
   property line 50 ft.

B. Septic Tank

1. Material: PVC
   Number of compartments: 2
2. Capacity: 2000 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 24 in.
   Over outlet, diameter 24 in.
   Riser: ☒ above ☐ below grade 6 in.
5. Inlet: ☐ baffle ☒ tee
6. Outlet: ☐ baffle ☒ tee
7. Depth to top of tank, below unfinished grade: 24 in.
8. Distances to: Well or suction line 110 ft.
   Stream - ft.
   Pressure line 100 ft.
   Property line 300 ft.

C. Distribution Box

1. Material: PVC
   Number available outlets: 6
2. Factory built: ☑ Yes ☐ No
3. Distance from septic tank: 50 ft.

D. Absorption Field

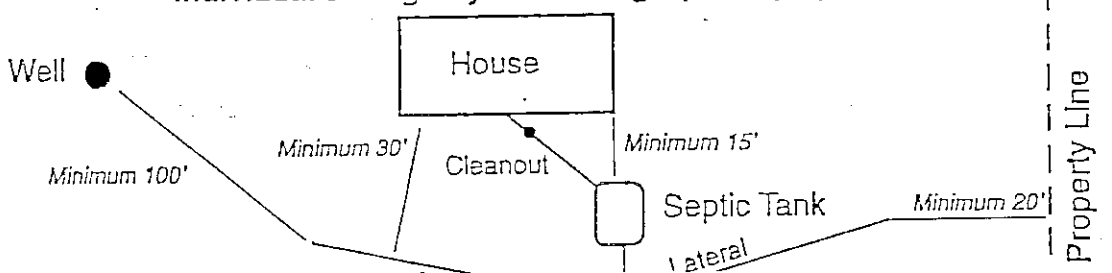
(Provide as-built drawings on back of this form)

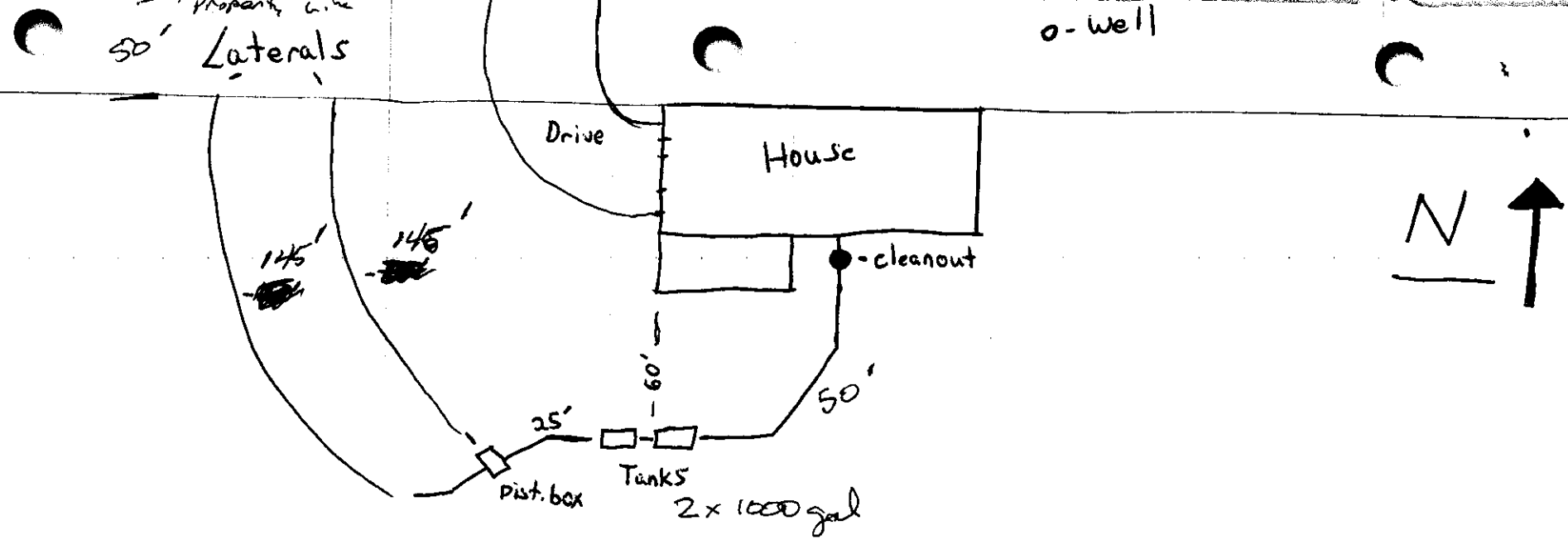
1. Type: ☐ Half rounds ☐ Perforated pipe
   Diameter of half round: chamber
   or perforated pipe: ____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other chambers
2. Lateral lines: Number 2
   Length of each line: 145 ft. 145 ft.
   ____ ft. ____ ft., ____ ft.
3. Trench dimensions: Width 3 ft.
   Slope 0 in/100 ft.
   Average depth 24 in
4. Filter material: NONE
   Depth of material ____ in.
5. Distances to: Well or suction line 150 ft.
   Stream - ft.
   Pressure line 100 ft.
   Property line 50 ft.

Complete "As Built" drawing on back of this form.

Indicate North with Arrow

Individual Sewage System Design (Example)





1301 Princeton Rd

HS001011
7-6-24

STATE OF NEBRASKA

Pete Ricketts
Governor

FEB 18 2016

DEPARTMENT OF ENVIRONMENTAL QUALITY
Jim Macy
Director
Suite 400, The Atrium
1200 'N' Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922
Phone (402) 471-2186
FAX (402)471-2909
website: http://deq.ne.gov

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Robert L. Benes (C1093)
Aspen Builders
1633 Normandy Court
Lincoln, NE 68512

RE: **Soil Percolation Rate**
Kevin Frank Acreage
1301 Princeton Road, Princeton, NE
NW NW Section 24, Township 07N, Range 06E, in Lancaster County

NDEQ ID: 397355 / 107423
Program ID: OWT 1093 / TS29039

Dear Mr. Benes:

On January 27, 2016, the Nebraska Department of Environmental Quality (NDEQ) received a *System Registration for Onsite Wastewater Treatment System* for a new septic system you installed at 1301Princeton Road, Princeton, Nebraska. The property's soil percolation rate was recorded as 15 minutes per inch on the system registration.

A review of the USDA Web Soil Survey data for the parcel revealed Pawnee clay loam and Wymore silty clay loam soil textures in the northern section of the lot. The anticipated soil percolation rate for Pawnee clay loam at depths between 20-inches and 48-inches was 855 minutes per inch; the anticipated soil percolation rate for Wymore silty clay loam at depths between 20-inches and 48-inches was 315 minutes per inch. The clay content for the soil textures ranged from 38 percent to 43 percent. High soil clay content can result in ponding and perched water tables at a location; both conditions can contribute to a soil absorption system's premature failure.

Nebraska Administrative Code Title 124- Rules and Regulations for the Design, Operation and Maintenance of Onsite Wastewater Treatment Systems, Chapter 3, states "Authorization by Rule" does not apply to the construction of a soil absorption system in a soil with a percolation rate slower than 60 minutes per inch. The owner of a dwelling proposing to construct,

2016009085

reconstruct, or modify an onsite system not covered by "Authorization by Rule" must apply for and obtain from the Department a Construction/Operating permit in accordance with Title 124, Chapter 3, 003. When an application for a Construction/Operating permit is required, the owner must obtain a Construction permit from the Department prior to the start of the work and an Operating permit from the Department prior to use of the system. The Construction permit and the Operating permit for a single system are covered by one application.

The above referenced property may also be evaluated for the suitability of a domestic wastewater lagoon to treat and dispose of wastewater generated at the site.

Please submit to NDEQ by **March 18, 2016,** the soil percolation data and results for tests conducted at 1301 Princeton Road, Princeton, NE. Please include with your letter the site drawing completed in accordance with Title 124, Chapter 3, 002.03B, for the onsite system's construction. Registration of the property's onsite system is not completed until the required information has been submitted to verify compliance with Title 124 requirements.

This letter is an attempt to advise you of the regulations with regard to onsite wastewater treatment systems and to obtain your voluntary compliance.

If you have any questions concerning this matter, please feel free to contact me at (402) 471-4372 or by e-mail at anania.caruso@nebraska.gov.

Sincerely,

Anania Caruso

Anania Caruso
Program Specialist, Onsite Wastewater Unit
Nebraska Department of Environmental Quality

Cc: Kevin Frank
John Chess, LLCHD
David Cary, Lancaster County Planning/Zoning Department

Enclosures (Neb Guides)