OCT 17 2013

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

A

Permit Number H5000832

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

Address 4200 N. 148th St (no rural route) City Lincoln, NE Zip 68527

Legal Description NW 10 10N 8E 12
1/4 | 1/4 | Section | Township | Range | Subdivison | Addition | Block | Lot

PID 23-10-100-001-000

B. Owner

Name Michael + Rhonda McClellan Signature M. McClellan

Address 5621 N. 18th St City/State/Zip Lincoln, NE 68521

Home Phone 402-423-5663 Work Phone

C. Certified Installer

Name: Lloyd Jahnke, Raymond Contracting, Inc. Signature Lloyd Jahnke for Lloyd

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-783-4009

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 4 Whirlpool Bathtub? ☐ Yes ☒ No Total Acres 37.56
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
Date frwd
Comments
ACTION ☒ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments Date rec'd
Date frwd
ACTION ☒ Approved ☐ Disapproved
Signature

3. City or County Engineer
Comments Date rec'd
Date frwd
ACTION ☒ Approved ☐ Disapproved
Signature

Installation Final Written Approval
By
Date

Business Office Use Only
Date Received 10-22-13 Amount Paid 355.00
Received By BH Cash/Check No. 8239

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

Form A Updated: 1/13

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

B

Permit Number:

Sewage Disposal System

Soil Absorption Test Data Report

Annex to Application

23-10-100-001-000
NW 1/4 S10-T10-R8 Lot 12
1484 4 Havelock

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 4200 N. 148th St (no rural route) City Lincoln NE, Zip 68527

Owner Mike & Rhonda McClellan Address 5621 N. 18th St

Soil Type (SCS): Silt Clay loam Percolation Rate: 60 min./inch

Date of Tests 5/13/13 to 5/14/13 Weather: Precipitation 0 Temperature 98°

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. 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	42	5/13	11:00a	5/13	3:00p	5/14	1:00p	6	5/14	1:30p	30	9/16	54
2	24	"	"	"	"	"	"	"	"	"	"	1/2	60
3	24	"	"	"	"	"	"	"	"	"	"	1/2	60
4	25	"	"	"	"	"	"	"	"	"	"	5/8	48
5	21	"	"	"	"	"	"	"	"	"	"	1 1/4	24
6	21	"	"	"	"	"	"	"	"	"	"	5/8	48

Sum of Percolation Rates: 354
Average of Rates: 49
Rate Used for Calculation: 60 (some variance)

Person Conducting Percolation Tests

Name: Terri L. Jakolubek, Raymond Contracting, Inc.
Phone: 402-783-2003 or 402-890-3870
Address 13800 NW 70th St
Raymond, NE 68428 # C1198

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks _____

Signature of Reviewing Official _____ Date _____

FORM 23-101 10-96

READ THOROUGHLY

DIAGRAM OF PERCOLATION TEST PROCEDURE

Finished Grade or Natural Ground Level

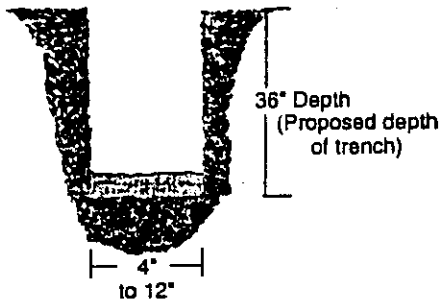
I. Size, Number, and Location or Test Holes

A. Dig six or more holes spaced uniformly over proposed lateral field site.

B. Scratch smeared spots on sides of hole.

C. Remove loose material from hole.

D. Add 2" of gravel to hole.

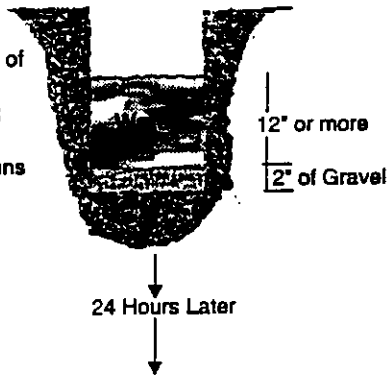


II. Saturation of Soil (Pre-soak)

A. Fill hole with 12" or more of water.

B. MAINTAIN THIS WATER LEVEL FOR 4 HOURS.

C. Record on Form B columns a thru f.



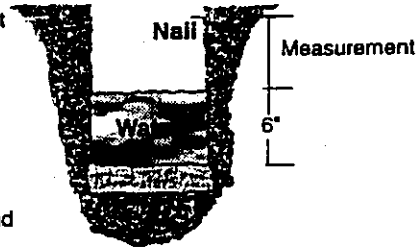
24 Hours Later

III. Percolation-rate Measurement **(refer to Instructions 5a, 5b, or 5c.)**

A. Add 6" of water.

B. Measure from fixed reference point (nail) to water.

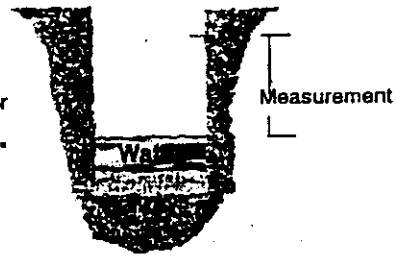
C. Record measurement and time on front of Form B.



½ hour later (30 minutes)

D. 30 minutes later remeasure and record time.

E. If water will be too low for another reading 30 minutes later, adjust to 6" of water and remeasure and record time.



F. Continue for 3½ hours taking readings every 30 minutes.

G. Last 30 minute reading is used in filling out Form B. Record date, time, intervals and water level drops in column g thru m.

Instructions

1. **Number and location of tests.** Percolation tests shall be made in 6 or more separate test holes which shall be spaced uniformly over the proposed lateral field site.
2. **Type of test hole.** Dig or bore a hole 3 feet deep with a diameter of 4 to 12 inches. (To save time, labor and the volume of water required per test, a 4-inch auger hole is recommended).
3. **Preparation of the test hole.** Scratch or roughen any smeared spots on the sides of the hole with a knife blade or sharp pointed instrument to provide a natural soil interface into which water may percolate. Remove all loose material from the hole. Add 2 inches of gravel to protect the bottom from scouring when water is poured into the hole.
4. **Saturation and swelling of the soil.** Fill the hole with clear water to a depth of 12 inches or more above the gravel and maintain this water level at least 4 hours and preferably overnight. The accuracy and true value of the percolation data depends on thorough saturation and swelling of the soil.
5. **Percolation-rate measurement.** Percolation-rate measurements shall be made 24 hours after starting the saturation and swelling procedure described above. Record results on the front of this form and complete all calculations.
   a. If water remains in the test hole after the overnight swelling period, adjust the depth to approximately 6 inches over the gravel. From a fixed reference point, measure the drop in water level over a 30 minute period to the nearest 1/8 of an inch. This drop is used to calculate the percolation rate.
   b. If no water remains in the test hole after the overnight swelling period, add clear water to bring the depth to approximately 6 inches over the gravel. From a fixed point, measure the drop in water level to the nearest 1/8 of an inch at 30-minute intervals for 4 hours. Refill to the 6 inch level over the gravel as often as necessary. The drop that occurs during the final 30 minutes is used to calculate the percolation rate.
   c. In sandy soils (or other soils in which the first 6 inches of water seeps away in less than 30 minutes after the overnight swelling period) the time interval between measurements shall be 10 minutes instead of 30 minutes and the test run for 1 hour instead of 4 hours. The drop that occurs during the final 10 minutes is used to calculate the percolation rate.
6. **Record the test results and complete all calculations on the front of this form.** The average of the percolation rates calculated for all holes in the last 30 (10) minutes will normally be the rate used for calculations to size the system. ***Exceptions are the use of the greatest percolation rate when rates vary more than 20 min/in between holes or when other soil analysis indicates potential percolation problems.***

LLCHD reserves the right to require additional testing based on knowledge of soil types, percolation tests results on nearby properties, or due to concerns with procedures followed. In some situations, LLCHD staff will require and perform on-site observation of percolation tests.

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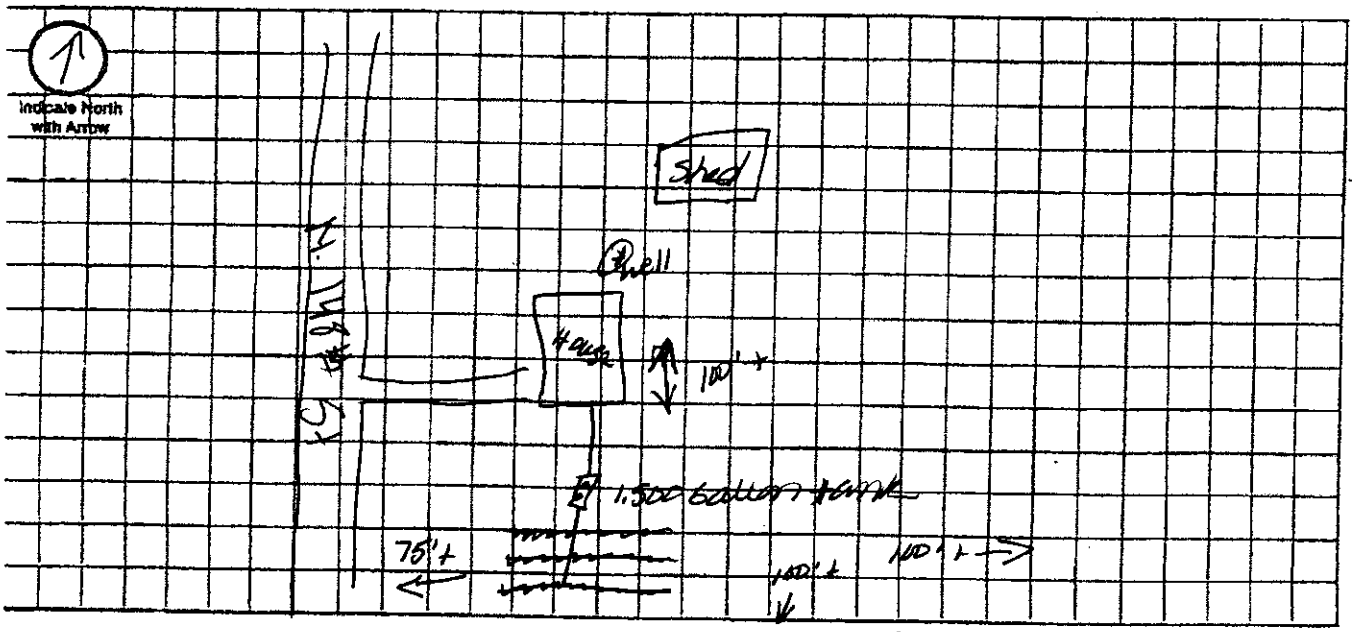
C

Permit Number:

Sewage Disposal System

Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



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

A. System Location (Indicate correct number and street)

Address (no rural route) 4200 N. 148th St City Lincoln NE, Zip 68527

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate 60 (min. per inch) Soil Type: Silty clay loam Land Slope: _____ %

Type of Absorption System: ☒ Trench ☐ Bed ☐ Other _____

Total Square Feet of Field Required: 1400 sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☒ Other Lateral Material: ADS Arc Leach Chambers

Capacity of Septic Tank 1500 gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals 350 ft. Number of Trenches 4 Trench Width 40"

D. 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 ☐	☐

E. Required Signatures

Home Building Contractor _____ Date 10/15/13

Installer _____ Date 9/11/13

OPM 23-102 10-86

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. HS000832

System Type: Standard

Situs: No Site Address Specified

Issued: 10/31/2013

Expires: 10/31/2014

Description: S10, T10, R8, 6th Principal Meridian, LOT 12 NW

Owner: MCCLELLAN, MICHAEL J & RHONDA L
5621 N 18 ST
LINCOLN, NE 68521

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

RAYMOND CONTRACTING
13800 NW 70TH
RAYMOND, NE 68428

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

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