



APPLICATION FOR A LIQUID WASTE PERMIT

NMED Permit Number: TA030219
Date NMED Received: 210

See 10/10/03 submital for Appointment

NMED Inspection Required No Yes, Call 758-8808

SYSTEM OWNER'S NAME: William C. Williams Home Phone: 505-776-2465 Business Phone: 5318
MAILING ADDRESS: Street/PO Box City, State, Zip Code
P.O. Box 596, Arroyo Seco, NM 87514

SYSTEM LOCATION: Street Address/ Location - give directions to site
125A Lower Las Colinas Rd, Taos

SUBDIVISION: BLOCK LOT UNIFORM PROPERTY CODE
TOWNSHIP: RANGE SECTION QTR QTR QTR LATITUDE LONGITUDE
26N 12E 36
INSTALLER'S NAME & FIRM: PHONE:
Not selected yet.

MAILING ADDRESS: Street/PO Box City State Zip Code

CID License No./ Certification MM-1 MM-98 MS-1 MS-3 Homeowner

I. PERMIT APPLICATION (Instructions on back of pink copy)
A. Proposed Liquid Waste System is for: New construction
 Replacement of an existing system Modification to an existing system
B. Manufactured Housing (mobile) Yes No level only
C. Proposed System is: Conventional Mound Holding Tank
 Evapotranspiration Other; Describe: _____

II. WASTEWATER SOURCES & DESIGN FLOWS IN GALLONS PER DAY (gpd)
A. Proposed liquid waste system use and design flow:
 Single family residence with 3 no. of bedrooms 375 gpd
 Multiple family units; no. of units; no. bedrooms per unit gpd
 Other (type) _____ Flow sizing units _____ gpd

B. Are there other sewage sources on this property? Yes No
TOTAL WASTEWATER FLOW ON PROPERTY = 375 GPD

III. SITE INFORMATION
A. Lot Size: 2.0 Acres Date of Record: 6/14/96
(nearest 0.01 acre) (Plat Date or Subdivision Date)

B. Depth from Ground Surface to:
Seasonal High Water Table ~8.0 feet
Bedrock, Caliche, Tight Clay _____ feet
Gravel, Cobbles, Highly permeable soil ~2.0 feet

C. Soil Description: (NMED may require both texture description and percolation rate)
Texture:
 Coarse sand or gravel; (give percolation rate below)
 Sand; (give percolation rate below) Fine Sand
 Sandy Loam; Loam; Silty Loam; first ~2.0'
 Clay Loam; Clay;
 Other; (describe) Gravel, cobbles, some loam 7-20'

Soil Percolation Rate: 0.57 min/inch (attach percolation test record)

D. Domestic Water Source: On-site Off-site;
 Private Public Shared
Irrigation Well or Flood Irrigated Area on the lot. Yes No

SYSTEM DESIGN
A. Treatment Unit:
 Septic Tank Capacity 1500 Gallons
Manufacturer: _____ Certification No.: _____
Other (specify): _____

B. Disposal System: Trench Bed Seepage Pit Mound
 Evapotranspiration Other, specify: pipe/pressure lines
Materials: Pipe and gravel Gravelless (specify) _____

C. Minimum required absorption area ~240 square feet
Trench or Bed width 4 ft. Gravel depth below distribution pipe 3 ft.
Total Trench or Bed length 20 ft. Number of trenches: 3
Number of gravelless units _____ Top of mound 2.0 ft.

D. Depth from ground surface to bottom of absorption area _____ ft.

POSTED

RECEIVED

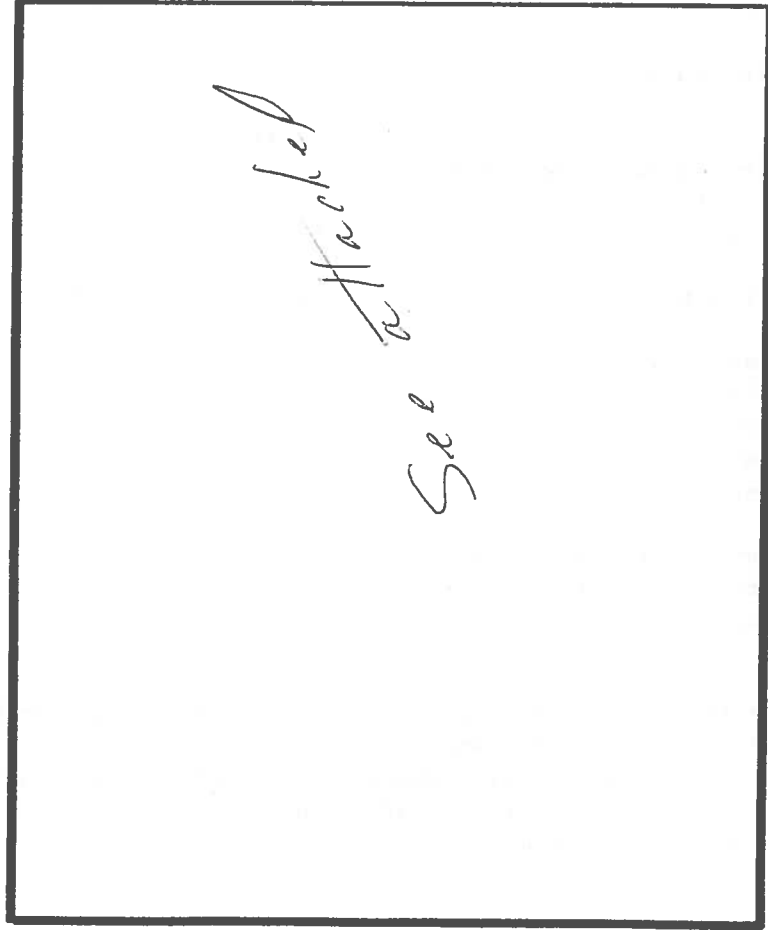
JUN 10 2003
N.M. ENVIRONMENT DEPT
DISTRICT 11
FIELD OFFICE

RECEIVED
JUN 12 2003
N.M. ENVIRONMENT DEPT
DISTRICT 11
FIELD OFFICE

see led
attached

V. SITE . N. Diagram the lot and liquid waste system. Show setbacks to the objects listed below within 200 feet of system and the direction of groundwater flow. Give distances from:

Treatment Unit to:	Disposal System to:
110 ft. Property line	50 ft.
420 ft. Property line	50 ft.
15 ft. Buildings	60 ft.
15 ft. Structures	60 ft.
100 ft. Wells	130 ft.
NA ft. Irrigation	NA ft.
NA ft. Arroyos	NA ft.
NA ft. Surface water	NA ft.



VI. The foregoing information is correct and true to the best of my knowledge. I understand that the issuing of this permit does not relieve me from the responsibility of complying with all applicable provisions of the New Mexico Plumbing Code and the New Mexico Liquid Waste Disposal Regulations. Obtaining this permit does not relieve me from the responsibility of obtaining any permit required by state, city or county regulation or ordinance or other requirements of state or federal law.

[Signature]
 Signature _____ Date 9/9/03

Owner _____ Contractor _____ Other _____

VII. NMED PERMIT A permit for construction of the liquid waste disposal system described herein is hereby:

Granted Conditions _____ Granted subject to conditions _____ Denied _____
 Reasons for Denial: _____

REQUIRED INSP. ① SITE PREP ② SAND-GRAVEL PIPING ③ GUTTER FABRIC ? FANL GRADE.

William C. King
 NMED Representative _____ Date 6/27/03

NOTE: This permit may be canceled for failure to meet any condition specified; failure to complete the system within one year; for providing inaccurate or incomplete information; or for failure to notify NMED that the system is completed. If you have questions call: _____

NMED Inspection History _____ NMED Representative _____ Date _____
SITE INSP.

VIII. NMED FINAL APPROVAL:

The system described above _____ was _____ was not inspected.

NMED Representative _____ Date _____

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JUN 18 2003

N.M. ENVIRONMENT DEPT
DISTRICT 11
TAOS FIELD OFFICE

To: Bill King, New Mexico EID

From: William C. Lyons, NM Licensed Engineer No. 6329

Date: 6/10/03

Subject: Proposed Mounded Septic System Leach Field at 125A Lower Las
Colonias Road, Taos, New Mexico

Attached is a schematic drawing of the plan for a proposed mounded septic system leach field at the new construction at the above address. The historic ground water level at the properties in the immediate area has been at approximately 2' below the surface. It is unlikely that the ground water level is this close to the surface under present conditions.

Tanks and Pump

It is proposed that a 1500 gallon conventional septic tank will be placed slightly below normal grade. The effluent from the conventional septic tank will flow into an auxiliary 375 + gallon tank with an installed small Zoeller pump (see attached drawing). The Zoeller pump will be liquid level actuated and will turn on when the water level reaches a preset level.

Mounded Leach Field

The mounded leach field structure will be approximately 50' by 15'. The gravel bed perforated pipe leach field area within the mound will be approximately 45' by 10' (~450 sqft). The pump will flow the effluent from the auxiliary tank into three, 45' long, 1.5" diameter PVC Schedule 40 pressure leach pipe lines that will be located in the center of a 15" thick gravel pack bed (see attached drawing). The gravel pack bed will be placed on 2' soil appropriate fill above the present surface level. On top of the 15" gravel pack will be a GeotX fabric cover with 6" of fill on top of the cover. The three 45' long, 1.5" diameter PVC Schedule 40 pressure leach pipe lines will have small perforations along their respective lengths. These perforations will allow the effluent to leach into the gravel pack, then into the soil fill, and subsequently into the first 2' for the present soil at the site. The perforation spacing and diameters in each of the three 45' long, 1.5" diameter PVC Schedule 40 pressure leach pipe lines will be dictated by the filtration rate in the fill soil to be used at the site. The percolation tests to determine the filtration rate on the fill soil will be conducted by the septic field system installer (together with myself).

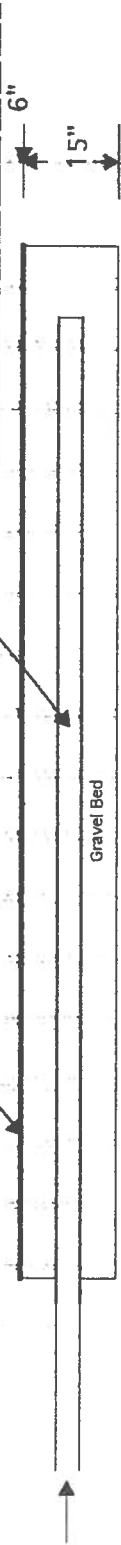


Fill Surface

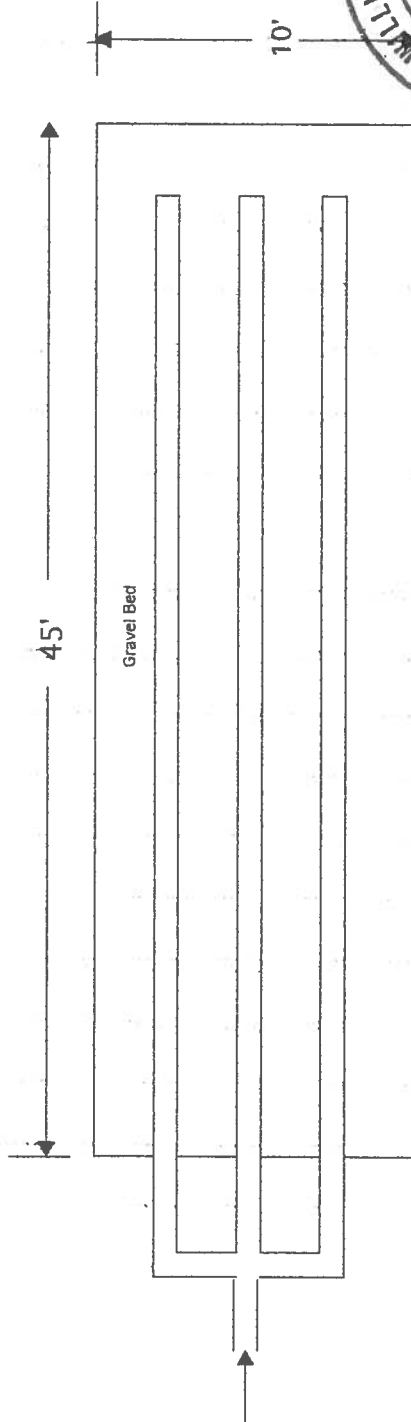
GeoTx Fabric Cover



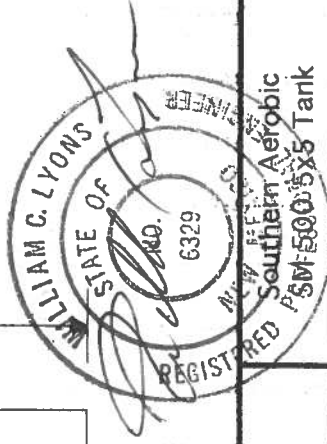
Perforated 1 1/2" Pressure Pipe



Side View of Absorption Bed



Top View of Absorption Bed

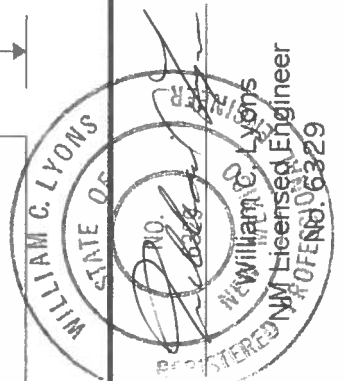
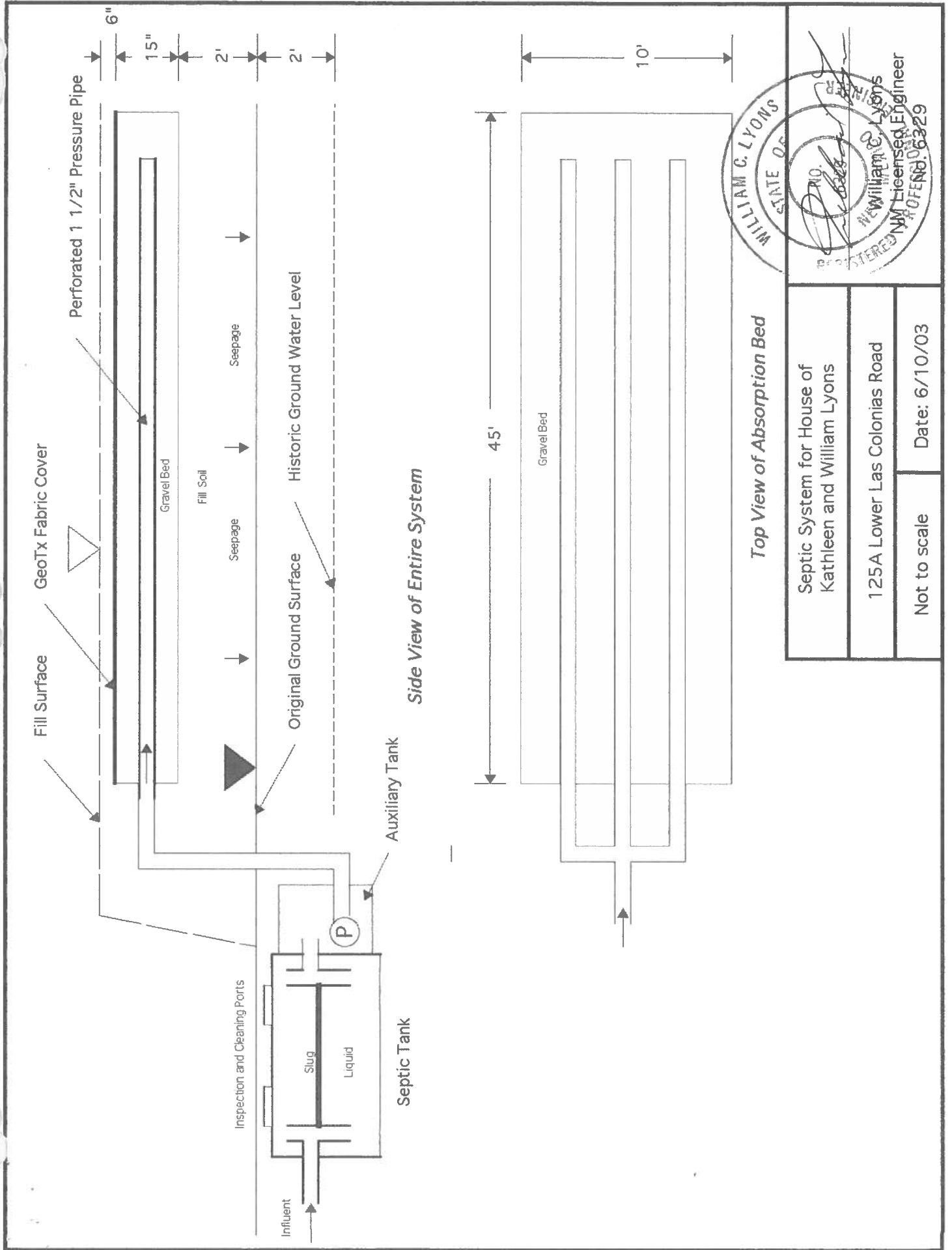


Septic Leach Field for House of
Kathleen and William Lyons

125A Lower Las Colchias Road

Date: 9/2/03

William C. Lyons
NM Licensed Engineer
No. 6329



Septic System for House of Kathleen and William Lyons	
125A Lower Las Colonias Road	
Not to scale	Date: 6/10/03



STATE OF NEW MEXICO
 ENVIRONMENT DEPARTMENT
 FIELD OPERATIONS DIVISION
 ONSITE LIQUID WASTE SYSTEM INSPECTION



System Owner's Name Lloyd, William C

System Location: _____

Installer's Name & Company: _____

Type of Inspection: INITIAL FINAL REINSPECTION COMPLAINT OTHER

Inspector _____
 Inspection Date _____

NMED Permit No: _____

1. BUILDING SEWER

- a. Correct Size and Material
- b. Required Cleanouts Present, Installed Correctly & to Finish Grade
- c. Pipe at Correct Grade (1/8" to 1/4" per foot)

2. PRETREATMENT

- a. Type: _____
- b. Installed as per Plans or Manufacturer's Instructions
- c. Other: _____

3. SEPTIC TANK / SEC./TERT. TREATMENT UNIT

- Type: Concrete Plastic/Fiberglass Sec./tert. Treatment Unit
- a. Located as per Site Plan
- b. Correct Setbacks
- c. Tank Certified; Correctly Labeled
- d. Tank Correctly Oriented, Level & Depth Below Grade
- e. Bottom of Outlet Pipe 2' Lower than Bottom of Inlet Pipe
- f. Inlet / Outlet Pipes Sealed & Watertight
- g. Inlet / Outlet Baffle or Tee with Legs Extending 12" Minimum Below Liquid Level; Outlet Filter Installed if Required
- h. Tank & Fittings Correctly Vented
- i. Concrete Tank: Coated & Material Correct OR Type V Concrete Outlet Pipe Correct Size & Material, Correct Grade
- j. Manholes Correctly Sized & Located
- k. Manhole Risers at Correct Height, Diameter, Coated & Lids
- m. Tank Correctly Backfilled and Covered; Fiberglass / Plastic Tank Installed per Manufacturer's Instructions
- n. Advanced Treatment Unit Installed per Manufacturer's Instructions
- o. Water Tightness Test Required: Pass Fail
- p. Other: _____

4. SURGE, PUMP AND HOLDING TANKS

- Type: Surge Tank Pump Tank Holding Tank Other
- a. Correct Size
- b. Inlet/Outlet Sealed Correctly
- c. Pump(s) Switches & Alarms Present and Installed Correctly
- d. Manholes, Risers, Lids Correct and Water Tight

5. TEE OR DISTRIBUTION BOX

- a. Pipe To and From Tee or "D" box 4" Diameter
- b. Tee Level; Correct Type; Oriented Correctly
- c. "D" Box Level and on Concrete Slab or Stable Soil
- d. "D" Box Inlet Baffled and 1" Above Outlets
- e. "D" Box Outlets at Same Height; Flow Equal to Outlets
- f. Tee or "D" Located a Min. of 5' From Disposal Field
- g. Other: _____

6. DISPOSAL TRENCH OR BED

- Type: Trench Chamber Bed Seepage Pit(s) Other
- a. Soil Type Correct: Type _____
- b. Clearance to Ground Water or Limiting Layer Correct

Trench / Bed Sized Correctly: _____

Dimensions: Trench/ Bed _____

Number: Chambers _____

Seepage Pit(s) _____

Other: Type _____

Correct Setbacks _____

Excavation at Correct Grade _____

Spacing Between Trenches or Beds Correct _____

Smearred Soils Not Present on Trench or Bed _____

Aggregate Correct Type, Size, Clean and Amount _____

Correct Depth of Aggregate Above and Below Pipe _____

Lines On Correct Grade -0" to 3" of Fall per 100' _____

Pipe Correct Size - 4" Minimum Diameter & Type _____

Aggregate Correctly Covered with Approved Material _____

Other: _____

For Seepage Pits:

a. Top cover: Underside Correctly Coated & Extends to Natural Ground

b. Domed covers covered with minimum 2" concrete extending 6" beyond pit wall

c. Brick or block laid end to end with staggered tight joints

d. Side wall inlet properly vented

e. Inlet/outlet fittings properly sealed with cement

For Other Disposal Methods:

a. Type: _____

b. Installed per Plans or Manufacturer's Instructions

c. Other: _____

Comments/ Violations: _____

RECEIVED CHECK # _____

PAID FOR 150 FOR _____

LIQUID WASTE PERMIT _____

Continued on attached Sheet(s)

Installation Approved

Installation Approved w/conditions (See Comments/Violations)

Installation Not Approved (See Comments/Violations)

Inspector's Signature: W.C. King