

REPLACEMENT SYSTEM VARIANCE REQUEST

map # 74 Lot # 12
Town Copy # 80. - 20

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of following requirements can be met, and the variance(s) requested fall within the limits of the LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1903)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD₅ plus S. S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION

Permit No. 3749 Town of AUGUSTA

Property Owner's Name: APRIL DIPMAN Date Permit Issued 8/5/97

System's Location: RR 1 PULLEN ROAD AUGUSTA, ME 0433 0 Tel. No.: 626-2811

Property Owner's Address: _____

(if different from above)

SPECIFIC INSTRUCTIONS TO THE:

LOCAL PLUMBING INSPECTOR (LPI):
If any of the variances exceed your approval authority and/or do not meet all the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:
If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement System Variance Request with your signature on reverse side of form.

PROPERTY OWNER:
It has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER:

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

April Dipman 7/25/97
SIGNATURE OF OWNER DATE

LOCAL PLUMBING INSPECTOR:

I, May R. Fuller, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

a. (approve, disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the Applicant. --OR--

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (recommend, do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, he/she shall state his/her reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments _____

May R. Fuller 8/5/97
LPI SIGNATURE DATE

Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS						
Soil Profile	Ground Water Table		to 7"		Inches	
Soil Condition	Restrictive Layer		to 7"		Inches	
from HHE-200	Bedrock		to 12"		Inches	
SETBACK DISTANCES (in feet)	Disposal Fields		Septic Tanks		Disposal Fields	Septic Tanks
from	Less than 1000 gpd	1000 to 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	To	To
Wells with water usage of 2000 or more gpd	300 ^a ft	300 ^a ft	100 ^a ft	100 ^a ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	100 ^b down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 ^b down to 60 ft	200 ^b down to 120 ft	100 ^b down to 50 ft	100 ^b down to 75 ft	66'	31', 67'
Water supply line	10 ft ^a	20 ft ^a	10 ft ^a	10 ft ^a		
Water course, major - for replacements only, see Table 400.4 for exempted expansions	100 down to 60 ft	200 down to 120 ft	100 down to 50 ft	100 down to 50 ft	53'	50+'
Water course, minor	50 down to 25 ft	100 down to 50 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	25 down to 12 ft	25 down to 12 ft		
Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams (edge of fill extension)	25 ft ^d	25 ft ^d	25 ft ^d	25 ft ^d		
Slopes greater than 3:1	10 ft	18 ft	N/A	N/A		
No full basement (e.g. slab, frost wall, columns)	15 down to 7 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft	7.5'	5'
Full basement (below grade foundation)	20 down to 10 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Property lines	10 down to 5 ^c ft	18 ft down to 9 ^c ft	10 ft down to 4 ^c ft	10 ft down to 7 ^c ft	7'	5'
Burial sites or graveyards, measured from the downhill toe of the fill extension	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1 **REDUCE SLOPE OF FILL TO 3 TO 1 ALONG SIDE OF SYSTEM NEAR PROPERTY LINE TO MAINTAIN FILL ON PROPERTY AND NEAR PORCH TO ALLOW ROOM TO DIVERT SURFACE WATER AWAY FROM HOUSE**
2. **TO DIVERT SURFACE WATER AWAY FROM HOUSE**
3. **THERE IS NO PRACTICAL ALTERNATIVE**

Footnotes:

- a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State Variance.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (or 200 ft. for 1000-2000 gpd) feet and closer to that well than the system it is replacing.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
- d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

WILLIAM P BROWN

SITE EVALUATOR'S SIGNATURE

7/15/97

DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207)287-5672 FAX (207)287-4172

074 L12

PROPERTY LOCATION

Town or Plantation: **AUGUSTA**

Street Subdivision Lot #: **PULLEN ROAD**

AUGUSTA 3749 TOWN COPY

Date Permit Issued: **8/15/97** \$ **1810** FEE Double Fee Charged

Local Plumbing Inspector Signature: *May R. Folle* L.P.I. # **850**

PROPERTY OWNERS NAME

Last: **DIPMAN** First: **APRIL**

Mailing Address of Owner: **RR 1 PULLEN ROAD**
AUGUSTA, ME 04330

Daytime Tel. #: **626-2811**

Municipal Tax Map # **74** Page # **10/12**

Owner Statement

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner/Applicant: *April C. Dipman* Date: _____

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application

Local Plumbing Inspector Signature: *May R. Folle* Date Approved: **8/27/97**

PERMIT INFORMATION

THIS APPLICATION IS FOR:

- First Time System
- Multi-User System
- Replacement System
- Expanded System
 - One-time exempted
 - Non-exempted
- Experimental System
- Seasonal Conversion

THIS APPLICATION REQUIRES:

- No Rule Variance
- First Time System Variance (Municipal)
- First Time System Variance (State)
- Replacement System Variance
 - Local Plumbing Inspector approval
 - State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Variance

DISPOSAL SYSTEM COMPONENT(S):

- Non-Engineered System
- Primitive System
- Alternative Toilet specify _____
- Non-Engineered Treatment Tank
- Holding Tank _____ Gallons
- Non-Engineered Disposal Area
- Separated Laundry System
- Engineered System (+2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)

SIZE OF PROPERTY

0.14 ACRES

DISPOSAL SYSTEM TO SERVE:

- Single Family Dwelling Unit
- Multiple Family Dwelling Unit
Number of Units _____
- OTHER SPECIFY _____

TYPE OF WATER SUPPLY

LAKE WATER

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- Concrete
 - Regular
 - Low Profile
- Plastic **ONE-PIECE**
SIZE: **1000** Gallons

DISPOSAL AREA TYPE/SIZE

- Stone Bed _____ Sq. Ft.
- Proprietary Device **616** Sq. Ft.
 - Clustered Linear
 - Regular H-20
- Trench _____ Lin. Ft.
- Other _____

GARBAGE DISPOSAL UNIT

- No
- Yes
 - Multi-compartment Tank
 - Tank in Series
 - Increase in tank capacity
 - Filter on Tank Outlet **RECOMMENDED**

CRITERIA USED FOR DESIGN FLOW (Show Calculations)

2 BEDROOM

DESIGN FLOW: **180**
(Gallons/Day)

PROFILE & DESIGN CLASS

PROFILE: **3** DESIGN: **C**

DEPTH TO MOST LIMITING FACTOR: **18** "

DISPOSAL AREA SIZING

- Small 2.0
- Medium 2.60
- Medium-Large 3.30
- Large 4.10
- Extra-Large 5.00

PUMPING

- Not Required
- May Be Required
- Required

DOSE: **50** Gallons

SITE EVALUATOR'S STATEMENT

On **7 / 15 / 97** (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules.

Signature: *William P. Brown* SE#: **188** Date: **7/16/97**

Print Name: **WILLIAM P BROWN** Telephone: **293-2110**

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owners Name

AUGUSTA

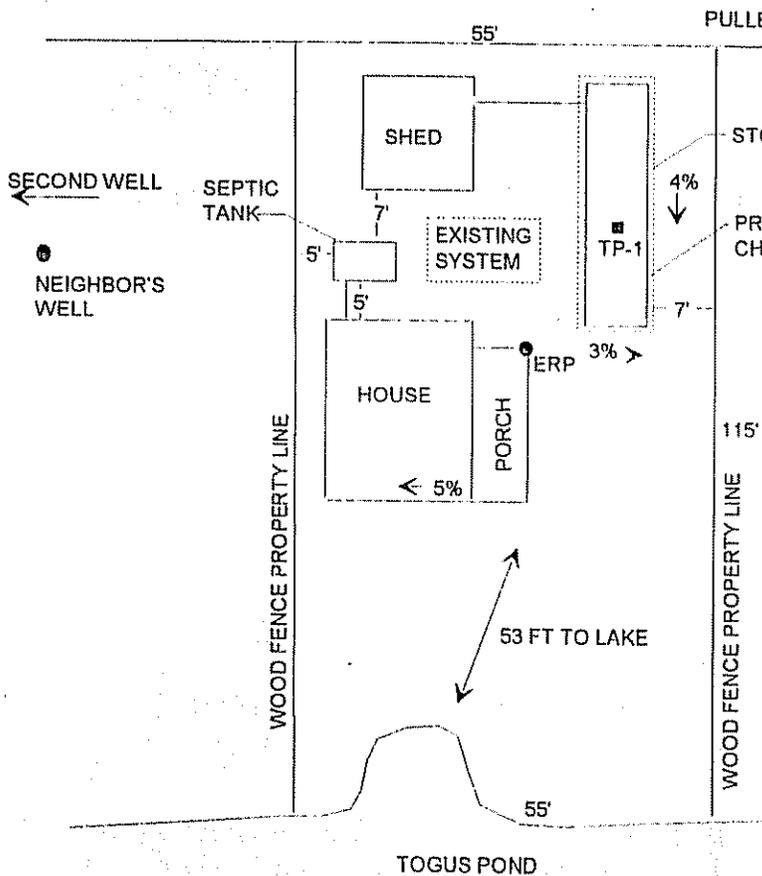
PULLEN ROAD

APRIL DIPMAN

SITE PLAN

Scale 1" = 25 Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



MEASUREMENTS FOR LAYOUT PURPOSES IS FROM EDGE OF CONCRETE CHAMBERS. MEASUREMENTS FOR SETBACKS IS FROM EDGE OF ONE FOOT PERIMETER OF STONE

EXISTING SYSTEM CONSISTS OF METAL SEPTIC TANK AND INVERTED V-PLANK DRAINAGE SYSTEM

PROPOSED SYSTEM REPLACES METAL TANK WITH NEW 1000 GALLON CONCRETE LIFT STATION AND REPLACES INVERTED PLANK DISPOSAL SYSTEM WITH HEAVY-DUTY CONCRETE CHAMBERS

TWO NEIGHBORING WELLS ARE NEARBY THE PROPOSED SYSTEM, HOWEVER, THE NEW SYSTEM COMPONENTS ARE NO CLOSER TO THE NEIGHBORING WELLS THAN THE SYSTEM THAT IS BEING REPLACED

DISPOSAL SYSTEM TO NEAREST WELL = 66 FEET
DISPOSAL SYSTEM TO FURTHER WELL = 103 FEET
SEPTIC TANK TO NEAREST WELL = 31 FEET
SEPTIC TANK TO FURTHER WELL = 67 FEET
DISPOSAL SYSTEM TO LAKE = 53 FEET
SEPTIC TANK TO LAKE = +50 FEET

STATE VARIANCE REQUESTED TO SITE THE REPLACEMENT SYSTEM 53 FEET FROM LAKE

SOIL DESCRIPTION AND CLASSIFICATION

Observation Hole TP-1 Test Pit Boring
0" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0-6	GRAVEL FILL	FRIABLE		
6-15	SANDY LOAM		MEDIUM BROWN	
15-20			ORANGE BROWN	
20-30			YELLOW BROWN	NONE
30-35		FIRM	OLIVE BRN	COMMON

Soil Profile 3	Classification Condition C	Slope 4 %	Limiting Factor 18 "	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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(Location of Observation Holes Shown Above)

Observation Hole Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0				
6				
10				
15				
20				
30				
40				
50				

Soil Profile	Classification Condition	Slope %	Limiting Factor "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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WILLIAM P BROWN
Site Evaluator Signature

188
SE #

7/16/97
Date

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
Owners Name

Town, City, Plantation

Street, Road, Subdivision

AUGUSTA

PULLEN ROAD

ALICE DIPMAN

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' Ft.

INSTALL 8- 4' X 8' HEAVY-DUTY CONCRETE CHAMBERS WITH SIDE ENTRY DISTRIBUTION PIPING

EXTEND ONE FOOT WIDE PERIMETER OF CRUSHED STONE AROUND THE CHAMBERS

MEASUREMENTS FOR LAYOUT PURPOSES ARE FROM EDGE OF CONCRETE CHAMBERS
MEASUREMENTS FOR SET-BACK PURPOSES ARE FROM EDGE OF STONE PERIMETER

LOAM AND SEED HALF OF THE SYSTEM TOP AND ALL EMBANKMENTS
GRAVEL HALF OF SYSTEM FOR PARKING AREA

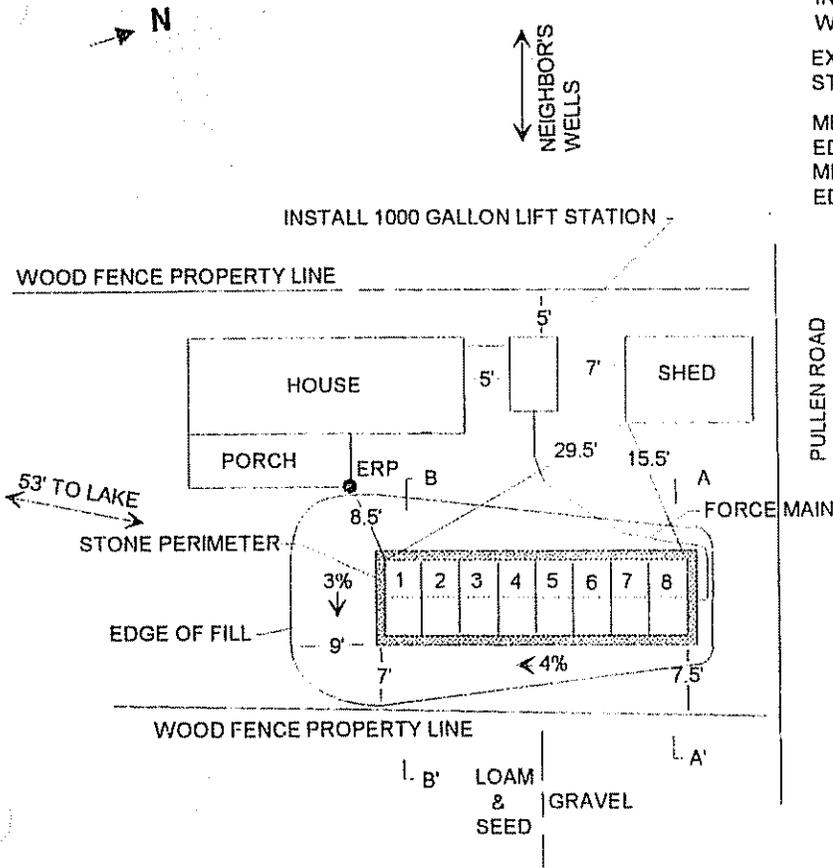
RECOMMEND REPLACEMENT OF TOILET WITH NEW LOW FLUSH TOILET
RAISE LEVEL OF DRIVEWAY TO NEAR ROAD LEVEL
EXTEND WIDTH OF DRIVEWAY TO ACCOMMODATE PARKING CARS
RECOMMEND RAISING SHED TO AVOID FILL AGAINST BUILDING

REMOVE 12 INCHES OF SOIL BELOW PROPOSED SYSTEM AND IN A 3 FOOT PERIMETER OF THE SYSTEM TO REMOVE FILL AND ORIGINAL ORGANIC LAYER BEFORE FILLING AND SETTING CHAMBERS

STEEPEN SLOPE TO 3 TO 1 AS NECESSARY TO AVOID FILL ON NEIGHBORING PROPERTY ALONG ONE SIDE OF SYSTEM AND NEAR PORCH TO ALLOW SURFACE DRAINAGE TO FLOW BY THE HOUSE

SET-BACKS FROM WELLS, PROPERTY LINES, AND MAJOR WATER COURSES ARE SHOWN ON PAGE 2

DIVERT SURFACE WATER AWAY FROM PORCH
MAINTAIN FILL ON PROPERTY



FILL REQUIREMENTS

Depth of Fill (Upslope) **4"**
Depth of Fill (Downslope) **21-24"**

CONSTRUCTION ELEVATIONS

Reference Elevation is **00"**
Bottom of Disposal Area **-42"**
Top of distribution Lines or Chambers **-29"**

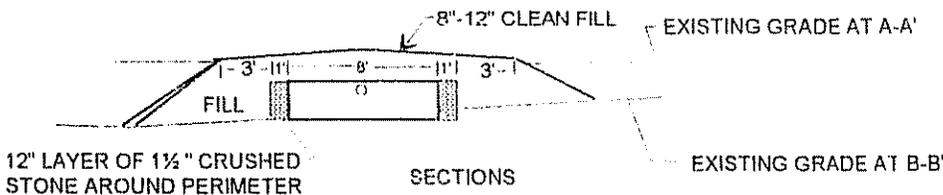
ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

TOP OF RAILING AT CORNER OF PORCH

DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 inch = 5 Ft.
Horizontal: 1 inch = 10 Ft.



INSTALL EROSION CONTROL DEVICES BEFORE CONSTRUCTION
REMOVE SOIL 12 INCHES BELOW ELEVATION OF CHAMBER SYSTEM IN DISPOSAL AREA AND 3 FEET AROUND PROPOSED CHAMBER SYSTEM SCARIFY SOIL IN ENTIRE FILL AREA
MIX 4 INCHES OF FILL MATERIAL WITH EXISTING SOIL TO FORM A TRANSITION ZONE (ACCORDING TO CHAPTER 12, PLUMBING CODE)
ALL FILL SHALL BE GRAVELLY COARSE SAND
INSTALL CHAMBERS PER MANUFACTURER'S INSTRUCTIONS
COVER TOP SEAMS OF CONCRETE CHAMBERS AND STONE PERIMETER WITH HAY OR FABRIC
CROWN FINISH GRADE FROM CENTER AT 3%
LOAM, SEED, MULCH

WILLIAM P BROWN

Site Evaluator Signature

188
SE #

7/16/97
Date

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ANGUS S. KING, JR.
GOVERNOR

STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
11 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0011

Gay
RECEIVED

AUG 5 1997

KEVIN W. CONCANNON
COMMISSIONER

July 31, 1997

April Dipman
RR 1 Pullen Road
Augusta ME 04330

SUBJECT: Approval Replacement System Variance Request, Dipman property, Pullen Road,
Augusta

Dear Ms. Dipman:

The Division has reviewed a replacement system variance request for the subject property. The specific state variances requested are to allow the installation of a subsurface wastewater disposal system with reduced setbacks of 53 feet between the disposal field and a major watercourse and 31 feet between the septic tank and an abutter's well. The system design prepared by William Brown, SE, dated 7-15-97, is found to be in compliance with the Maine Subsurface Wastewater Disposal Rules.

We approve the requested variances with the following requirements:

1. A permit for system installation is to be obtained from the Local Plumbing Inspector in advance of the start of system construction.
2. The system is to be installed in accordance with the submitted and approved system design. Should any changes or alterations be required at the time of construction, the system designer is to be notified prior to making the changes.

Should you or others have any questions regarding this review and/or approval, please feel free to contact me at 287-5687.

Sincerely,

Linda S. Robinson
Wastewater & Plumbing Control Program
Division of Health Engineering

/lsr
cc:

Gary Fuller, LPI ✓
William Brown, SE

