#25

COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS DEPARTMENT OF ENVIRONMENTAL PROTECTION ONE WINTER STREET, BOSTON MA 02108 (617) 292-5500

RECEIVED JUL 0 7 2000

TRUDY COXE Secretary

DAVID B. STRUHS Commissioner

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A

CERTIFICATION

Property Address: 351 POTWINE LANE, AMACTSE Name of Ow Address of Owner:_____ Dion MANDLE 351 Potwine Las Amherst. Name of Owner Date of Inspection: 7 5/00 Name of Inspector: (Please Print) <u>Alan E. Weiss</u>, R.S. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000) Company Name: <u>Cold Spring Environmental</u>, Inc. Mailing Address: <u>350 Old Enfield Rd.</u>, Belchertown, MA 01007

Telephone Number: 413-323-5957

CERTIFICATION STATEMENT

ARGEO PAUL CELLUCCI

Governor

certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of inspection. The inspection was performed based on my training and experience inspection and TTH OF maintenance of on-site sewage disposal systems. The system:

Passes		13
Conditionally Passes	agrity	REG #S33
Fails	<i>i</i> 1	
Signature: AU Wew E	Date: 7/5/00	A CEU SAMLE

The System Inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within thirty (30) days of completing this inspection. If the system is a shared system or has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the Department of Environmental Protection. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

NOTES AND COMMENTS

Inspector's

- Good Coudition - NO Signs of Failure.

revised 9/2/98



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Property Address: ろうし Potwilic Owner: MANDLG Date of Inspection: フトラにつ

INSPECTION SUMMARY: Check A, B, C, or D:

A. SYSTEM PASSES:

I have not found any information which indicates that any of the failure conditions described in 310 CMR 15.303 exist. Any failure criteria not evaluated are indicated below.

COMMENTS:

B. SYSTEM CONDITIONALLY PASSES:

One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not. The septic tank is metal, unless the owner or operator has provided the system inspector with a copy of a Certificate of Compliance (attached) indicating that the tank was installed within twenty (20) years prior to the date of the inspection; or the septic tank, whether or not metal, is cracked, structurally unsound, shows substantial infiltration or exfiltration, or tank failure is imminent. The system will pass inspection if the existing septic tank is replaced with a complying septic tank as approved by the Board of Health.

Sewage backup or breakout or high static water level observed in the distribution box is due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. The system will pass inspection if (with approval of the Board of Health).

broken pipe(s) are replaced

- obstruction is removed
- distribution box is levelled or replaced
- The system required pumping more than four times a year due to broken or obstructed pipe(s). The system will pass
 inspection if (with approval of the Board of Health):
 - broken pipe(s) are replaced
 - obstruction is removed



Property Address: 351 Potwine Owner: Mandu Date of Inspection: 7/5/00

C. FURTHER EVALUATION IS REQUIRED BY THE BOARD OF HEALTH:

Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect the public health, safety and the environment.

- 1) SYSTEM WILL PASS UNLESS BOARD OF HEALTH DETERMINES IN ACCORDANCE WITH 310 CMR 15.303 (1)(b) THAT THE SYSTEM IS NOT FUNCTIONING IN A MANNER WHICH WILL PROTECT THE PUBLIC HEALTH AND SAFETY AND THE ENVIRONMENT:
 - Cesspool or privy is within 50 feet of surface water
 - Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh.

- 2) SYSTEM WILL FAIL UNLESS THE BOARD OF HEALTH (AND PUBLIC WATER SUPPLIER, IF ANY) DETERMINES THAT THE SYSTEM IS FUNCTIONING IN A MANNER THAT PROTECTS THE PUBLIC HEALTH AND SAFETY AND THE ENVIRONMENT:
 - ____ The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
 - The system has a septic tank and soil absorption system and the SAS is within a Zone I of a public water supply well.
 - The system has a septic tank and soil absorption system and the SAS is within 50 feet of a private water supply well.
 - The system has a septic tank and soil absorption system and the SAS is less than 100 feet but 50 feet or more from a private water supply well, unless a well water analysis for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm. Method used to determine distance ______ (approximation not valid).

3) OTHER



I have determined that one or more of the following failure conditions exist as described in 310 CMR 15.303. The basis for this

Property Address: 351 Potwine Owner: Mandle Date of Inspection: 715/00

D. SYSTEM FAILS:

You must indicate either "Yes" or "No" to each of the following:

determination is identified below. The Board of Health should be contacted to determine what will be necessary to correct the failure. Yes No Backup of sewage into facility or system component due to an overloaded or clogged SAS or cesspool. Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool. Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool. Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow. Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped . Any portion of the Soil Absorption System, cesspool or privy is below the high groundwater elevation. Any portion of a cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. Any portion of a cesspool or privy is within a Zone I of a public well. Any portion of a cesspool or privy is within 50 feet of a private water supply well. Any portion of a cesspool or privy is less-than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. If the well has been analyzed to be acceptable, attach copy of well water analysis for +coliform bacteria, volatile organic-compounds, ammonia nitrogen and nitrate nitrogen.

E. LARGE SYSTEM FAILS:

You must indicate either "Yes" or "No" to each of the following:

The following criteria apply to large systems in addition to the criteria above:

The system serves a facility with a design flow of 10,000 gpd or greater (Large System) and the system is a significant threat to public health and safety and the environment because one or more of the following conditions exist:

Yes	No	
-		the system is within 400 feet of a surface drinking water supply
	_	the system is within 200 feet of a tributary to a surface drinking water supply
		the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area - IWPA) or a mapped Zone II of a public water supply well)

The owner or operator of any such system shall upgrade the system in accordance with 310 CMR 15.304(2). Please consult the local regional office of the Department for further information.



SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART B CHECKLIST

Property Address: 351 Portunie Owner: Mandre Date of Inspection: 7/5/00

Check if the following have been done: You must indicate either "Yes" or "No" as to each of the following:

Yes	No	
2		Pumping information was provided by the owner, occupant, or Board of Health.
-	-	None of the system components have been pumped for at least two weeks and the system has been receiving mermal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection.
7		As built plans have been obtained and examined. Note if they are not available with N/A.
-/		The facility or dwelling was inspected for signs of sewage back-up.
~	_	The system does not receive non-sanitary or industrial waste flow.
~	—	The site was inspected for signs of breakout.
		All system components, excluding the Soil Absorption System, have been located on the site.
~	—	The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum. The size and location of the Soil Absorption System on the site has been determined based on:
/		
-/		Existing information. For example, Plan at B.U.H.
~		Determined in the field (if any of the failure criteria related to Part C is at issue, approximation of distance is unacceptable) [15.302(3)(b)]
2-	-	The facility owner (and occupants, if different from owner), were provided with information on the proper maintenance of SubSurface Disposal Systems.



Property Address: 351 Rotwine Owner: Marche Date of Inspection: 715/00

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FLOW CONDITIONS

TEON CONDITIONS	
RESIDENTIAL:	
Design flow: 440/554g.p.d./bedroom.	
Number of bedrooms (design): Number of bedrooms (actual): 4	
Total DESIGN flow 550	
Number of current residents: 4	
Garbage grinder (ves or no):	
Consider (separate system) (yes or no): \vec{N} · If yes separate inspection required	
Laundry (separate system) (yes of no), in yes, separate inspection required	
Launary system inspected (yes of no)	
Seasonal use (yes of no): <u></u>	
Water meter readings, if available (last two year's usage (gpd):	
Sump Pump (yes or no):	
Last date of occupancy: Correct p	
Type of establishment:	
Design flow: gpd (Based on 15.203)	
Basis of design flow	
Grease trap present: (yes or no)	
Industrial Waste Holding Tank present: (yes or no)	
Non-sanitary waste discharged to the Title 5 system: (yes or no)	
Water meter readings, if available:	
Last date of occupancy:	
OTHER: (Describe)	
Last date of occupancy:	
GENERAL INFORMATION	
PUMPING RECORDS and source of information:	
1954 Pumped 1997, Owner, Not Wat pumped.	
System pumped as part of inspection: (yes or no)	
If yes, volume pumped:gallons	
Reason for pumping:	
TYPE OF SYSTEM	
Septic tank/distribution box/soil absorption system	
Single cesspool	
Overflow cesspool	
Privy	
Shared system (yes or no) (if yes, attach previous inspection records, if any)	
I/A Technology etc. Attach copy of up to date operation and maintenance contract	
Tight Tank Copy of DEP Approval	
Other	
Sugar	
APPROXIMATE AGE of all components, date installed fif known) and source of information:	
Sawage orders detected when arriving at the site: (yes or no) N	

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Property Address: 351 Activity
Owner: Mondelle
Date of Inspection: 7/5/00
BUILDING SEWER:
(Locate on site plan)
u u
Depth below grade: 12
Material of construction: cast iron 40 PVC other (explain)
Distance from private water supply well or suction line <u>10</u> $+$
Comments: (condition of joints, venting, evidence of leakage, etc.)
/
SEPTIC TANK: V
(locate on site plan)
4-6 Man
Depth below grade:
If tank is metal, list age Is.age.confirmed by Certificate of Compliance (Yes/No)
the alward (1)
Dimensions: 1015 × 9.5 × 4.5 (1600 gal.)
Siudge depth: 2
Distance from top of sludge to bottom of outlet tee or baffle: <u>48</u>
Scum thickness:
Distance from top of scum to top of outlet tee or barrie:
Distance from bottom of soum to bottom of outliet fee of barrie: 72*
How differsions were determined.
Comments:
(recommendation for pumping, condition of inlet and outlet tees or-baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.)
· · · · · · · · · · · · · · · · · · ·
GREASE TRAP:
(locate on site plan)
Depth below grade:
Material of construction:concretemetalFiberglassPolyethyleneother(explain)
Dimensions:
Scum thickness:
Distance from top of scum to top of outlet tee or baffle:
Distance from bottom of scum to bottom of outlet tee or baffle:
Date of last pumping:
Commonte
Commendation for numping, condition of inlat and cutlet taxs or hoffler, don't of liquid level is relation to cutlet invest, structure interview
evidence of leakage etc.)

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Property Address: 351 Potwine Owner: Mondele Date of Inspection: 7/5/66

TIGHT OR HOLDING TANK: ____ (Tank must be pumped prior to, or at time of, inspection) (locate on site plan)

Depth below grade:

Material of construction: _____concrete ___metal ___Fiberglass __Polyethylene __other(explain)

Dimensions: Capacity: _____gallons Design flow: _____gallons/day Alarm present _____ Alarm level: _____Alarm in working order: Yes ____No__ Date of previous pumping: ______ Comments: (condition of inlet tee, condition of alarm and float switches, etc.)

DISTRIBUTION BOX: (locate on site plan)

Depth of liquid level above outlet invertif week,

Comments:

(note if level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, etc.)	2		
of No Com Over, good Dist. I evel.			

PUMP CHAMBER:

(locate on site plan)

Pumps in working order: (Yes or No)_____ Alarms in working order (Yes or No)_____ Comments: (note condition of pump chamber, condition of pumps and appurtenances, etc.)_____



Property Address:	35	51 isture
Owner:	M	ordel
Date of Inspection:	7	5/00

SOIL ABSORPTION SYSTEM (SAS):

(locate on site plan, if possible; excavation not required, location may be approximated by non-intrusive methods)

If not located, explain:

Type: leaching pits, number: leaching chambers, number: leaching galleries, number: leaching fields, number, length: leaching fields, number, dimensions:(12 × 80) overflow cesspool, number: Alternative system: Name of Technology:	
leaching pits, number: leaching chambers, number: leaching galleries, number, length: leaching fields, number, dimensions: (12 × 80 ⁽)) overflow cesspool, number: Alternative system: Name of Technology:	
leaching chambers, number: leaching galleries, number: leaching trenches, number, length: leaching fields, number, dimensions: (12 × 80 ⁽)) overflow cesspool, number: Alternative system: Name of Technology:	
leaching galleries, number: leaching trenches, number, length: leaching fields, number, dimensions: (12 × 80 ⁽¹)) overflow cesspool, number: Alternative system: Name of Technology:	
leaching trenches, number, length: leaching fields, number, dimensions: (12 × 80) overflow cesspool, number: Alternative system: Name of Technology:	
leaching fields, number, dimensions: (12 × 80) overflow cesspool, number: Alternative system: Name of Technology:	
overflow cesspool, number;	
Alternative system: Name of Technology:	
Name of Technology:	
Name of Technology:	
000000000000	
Comments.	
(note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.)	
CK, No sigo of failue.	
() `	
CESSPOOLS:	
(locate on site plan)	
Number and configuration:	
Condition of liquid to inlet invert	
Depth of scum layer:	
Dimensions of cesspool:	
Materials of construction:	
Indication of groundwater:	
inflow (cesspool must be pumped as part of inspection)	
Comments:	
Contraction of soil signs of hydraulic failure. Javel of pending condition of vegetation at a b	
(note condition of soil, signs of hydraulic failure, rever of ponding, condition of vegetation, etc.)	
PRIVY:	
(locate on site plan)	
Materials of construction: Dimensions:	
Depth of solids:	
Comments:	
(note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)	
there existent of easy again of repartation function of portaining, contained of registration, easy	



Property Address: 351 Potwid Owner: Mondule Date of Inspection: 7/5/00

SKETCH OF SEWAGE DISPOSAL SYSTEM:

include ties to at least two permanent reference landmarks or benchmarks locate all wells within 100' (Locate where public water supply comes into house)

See attedral As Boilt.



Property Owner: Date of I	Address: 351 Portwine Mandre Inspection: 7/5/00				
NRCS	Report name				
	Soil Type Typical depth to groundwater				
USGS	Date website visited Observation Wells checked				
	Groundwater depth: Shallow	Moderate	Deep		
SITE EX.	AM Slope Surface water Check Cellar Shallow wells				
Estimate	d Depth to Groundwater # Feet	From Bot. of SAS.			
Please in	ndicate all the methods used to dete	rmine High Groundwater Elevation:			
Voi	otained from Design Plans on record			•	
1/ 01	oserved Site (Abutting property, obs	ervation hole, basement sump etc.)			
De	etermined from local conditions				
Cł	necked with local Board of health				
Cł	necked FEMA Maps				
CI	necked pumping records				
CI	necked local excavators, installers				
U	sed USGS Data				

Describe how you established the High Groundwater Elevation. (Must be completed)

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コン NVIL1 MANDLE SEPTIC - ADDENDUM JOB COLD SPRING ENVIRONMENTAL SHEET NO CONSULTANTS A-Weiss 2/14/95 CALCULATED B 4/25/95 Aw. Belchertown, MA 01007 • (413) 323-5957 DATE 1=40 Reused 7/5/00 (Bottom SIDNG, B.M. SILL 100) POT WINE LA. INU. AT House 97.60 0 D 5505 INU. SEP. TNIL IN 97.15 INU. " " OUT 96.90 DRIJE INU. D.B IN 96.65 # 35 INU. D.B. OUT 96.45 MAX' INV. Leads IN 96.35 3:1 SCOPE INV. Leak OUT 95.95 BOT BED AT 95.45 D.Box AS BUELT 1/25/95 (1500 5a). FENCE 6'seeps DEP Transmittal # 58599 Dep Project # 94-251 CSEC Progect # 94-404 -FINAL INSPECTION 4/25/95 NOTE: - WITH CHANGE - PUUMBING COST TO BE LOWER. THIS - NO PUMP & CHAMBER NEEDED. - MORE FILL REQUIRED IN REAR OF HOUSE - MUST ENCLOSE WORK AREA W/ SILT FENCE, - BED ELEVATION + LOCATION is SAME. AS APPROVED. - BED PITCH is TO NORTH - MULCH +SEED AT COMPLETICAL ALAN E. WEIS REG. #933 25 95 NOTE: PLUMBING AT REAR W/O PUNP COMPLETED AT RECOMMENDATION OF INSTALLER INORDER TO ACHIVE GRAVITY FLOW AND MINIMIZE BASEMENT PLUMBING + CARPENTRY (ANISHED BASEMENT), Aw



		1251 0000 000
÷.,		ADI ON BE TO BY
	No. 94-21	TH OF
••	THE COMMONWEALTH OF MAS	ALTH
	TOULN OF AMHER	
	A multimetion for 79: manual 100 miles	
	Application for Disposal Works	COMBINITION PROMINE
	Application is hereby made for a Permit to Construct () o System at:	or Repair (X) an Individual Lawyige Disposal
	351 POT WINE LANE	of #2
(BID)	DIAN MANDLE 3.5	51 POTWING LA
X	X	Address
CAE	Type of Building	Size Lot. 36,048
PLI	Other — Type of Building Re.5	Showers () — Cafeteria ()
AF	Other fixtures Design Flow	Total daily flow
ERE	Septic Tank - Liquid capacity 1000 gallons Length 102." W	"idth. 58" Diameter Depth. 55"
МH	Seepage Pit No Diameter Depth below inle	et
NI	Other Distribution box () Dosing tank () Percolation Test Results Performed by A. WEISS	Date 19 17 18 Y
ILL	Test Pit No. 1	"Depth to ground water. 7'
RF	Test Pit No. 2minutes per inch Depth of Test Pit.	Depth to ground water
K O	Description of Soil BROWN SAND AND GRAVE.	L OVER GREY CLAY
HEC		1 / Sala & Tale w/2
U	CHAMBER, PASED BED REG'D, PL	PIPE DASEMENT D ALLANDERATE
	Agreement: The undersigned agrees to install the aforedescribed Individu	al Sewage Disposal System in accordance with
	the provisions of TITLE 5 of the State Environmental Code T	he undersigned further agrees not to place the
	system in operation until a Certificate of Compliance has been issue	QUAL 10/25/94
	Application Approved By	/Date /
	Application Disapproved for the following reasons:	Date
		Date
	Permit No.	Issued Date
	THE COMMONWEALTH OF MASS	TH
	TOLEN OF AMLEUS	
	Certificate of Comp	liance
	THIS IS TO CERTIFY, That the Individual Sewage Disposal	System constructed ()) or Repaired (
	by instalker	15 W- Cat 4/28/95
	has been installed in accordance with the provisions of TITLE 5 of	The State Environmental Code as described in
	the application for Disposal Works Construction Permit No.	ONSTRUED AS A GUARANTEE THAT THE
	SYSTEM WILL FUNCTION SATISFACTORY.	
	DATE Inspect	or
17 (Fr. 17.)		
	THE COMMONWEALTH OF MAS	TRE PL BY
	BOARD OF HEA	CD.B.G
	No. 79-21	FEE
	Disposal Works Constru	uction Permit
	Permission is hereby granted.	l System
	at No. 351 For wirke Lang	reet = (
	as shown on the application for Disposal Works Construction Perm	it No. 9 4-2 Dated
	DATE 4/25/95	Board of Health
	Form 1255 H&W HOBBS & WARREN TM Publishers	

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21E Site Investigations
Subsurface Investigations
Pollution Remediation

· LSP on Staff

October 24, 1994

COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

 Percolation Tests and Septic Designs

Regulatory Compliance
Recycling and Solid Waste

Mr. Paul Netupsky Massachusetts Department of Environmental Protection Bureau of Water Pollution Control, 436 Dwight Street Springfield, Ma. 01103

Mr. David Zarozinski, Agent Amherst Health Department Amherst Ma. 01002

RE: Septic System Repair & Variance Approval Dian Mandle Residence, 351 Potwine Lane, Amherst, Ma. Transmittal Form # 58599

Dear Mr. Netupsky & Mr. Zarozinski:

A variance from Title V is requested for the repair of the system at the above mentioned property. The following variances are noted:

-lack of space for 25 fill around the system due to property line and house proximity (310 CMR 15.02(17)).

-lack of 4 feet of percable native material beneath the leaching system (310 CMR 15.03(6)).

-lack of 4 foot groundwater separation from beneath the septic system in order to minimize runoff and grade problems toward house (3 foot is proposed).

Similarly, the Amherst Health Department has been contacted herein on the same variance request and I have noted to them that I have had a previous telephone conversation with you regarding the groundwater separation issue. Because groundwater in the neighborhood of the site is not used for potable purposes and the proposed approach would also mitigate slope and possible breakout concerns, you noted the Department (DEP) would likely consider the request as feasible for approval subject to complete review of the variance request.

Finally, A determination of Applicability will be forwarded to the Amherst Conservation Department and the Mass. DEP-Wetlands Division because of the proposed filling in the buffer zone. Our experience with this situations is that the submittal is routine and the work will be allowed as proposed.

It is my opinion that given all the possible scenarios for a new disposal system, and due to spatial constraints, that this plan best meets the intent on the Sanitary Code 310 CMR 15.00 and the Wetlands Protection Regulations 310 CMR 10.00.

Please see the proposed plan attached (four copies). This approval request has

00724 1091



Page 2:

October 24, 1994

also been sent to the Amherst Board of Health who will have approved the variance (see Attachment). The Amherst Conservation Commission and the DEP Wetland Office in Springfield have also been sent appropriate Determination of Applicability Filings. A filing fee of \$ 200.00 has been sent to Boston with the proper administrative forms also attached.

Please feel free to contact me should you have any questions.

Sincerely,

Cold Spring Environmental Consultants, Inc.

14.0-Alan E. Weiss, M.S. President

Principal Hydrogeologist Registered Sanitarian Lic. #933

cc: Dian Mandle, 351 Potwine La., Amherst

LAN E. WEIS

OCT 2 4 HEAL



I support the request for these variances because:

1) Town water is available.

2) The system is designed twenty-five percent (25%) larger than Title V.

3) The current system has failed. In my opinion, with the constraints of the layout of the land and developed area, this septic system plan is the best design considering the circumstances.



AMHERST Massachusetts

AMHERST HEALTH DEPARTMENT 70 BOLTWOOD WALK AMHERST, MA 01002-2128 (4113) 256-077

Bettye Anderson Frederic, Director

- Date: November 9, 1994
- To: Bettye Anderson Frederic
- From: David Zarozinski
- Variance Request from Title V to repair a septic system Re: located at 351 Potwine Lane, Amherst, MA

The past history of this area, according to our records on file dating back to 1964, state that:

1) The perculation rates vary from 2 minutes per inch to 15 minutes per inch.

2) The water table average is 3 to 4 feet.

3) Soils vary from sand to sandy clay to clay.

I have reviewed the septic system plans for Ms. Dian Mandle, prepared by Mr. Alan Weiss of Cold Spring Environmental.

The variances from Title V are as follows:

1) There will be a variance from the requirement of twenty-five feet (25') of fill around the leach bed. Instead, there will be approximately seventeen feet (17') of fill.

2) There will be a variance from the requirement of four feet (4') of native percable material beneath the leaching system [regulation - 15.03 (6)].

3) There will be a variance from the requirement of a four foot (4') groundwater separation from beneath the leaching system. In order to minimize runoff and grade problems, a three foot (3') separation is proposed.

It's time we made smoking history.

15.03 (6)

310 CMR: DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING

15.02: continued

(6) <u>Required Depth of Pervious Material</u>. Subsurface sewage disposal systems shall be located in an area where there is at least a 4 foot depth of naturally occurring pervious soil below the entire area of the leaching facility. The naturally occurring pervious soil shall have a percolation rate less than or equal to 30 minutes per inch or 20 minutes per inch for systems over 2000 gallons per day and the 4 foot stratum must be free of impervious materials, such a layers of clay, silt, subsoil or loam.

(7) <u>Distances.(1)(2)</u> No disposal facility shall be closer than the distances stated to the components listed in the following table. The distance shall be increased where required by conditions peculiar to a location.

12/31/86

310 CMR - 296

(17) Construction in Fill. Where an individual sewage disposal system is to be constructed wholly or partially in fill, the fill shall be properly placed and compacted to minimize settlement or it shall be allowed to settle for a minimum of 12 months whichever occurs first. The fill material shall be clean coarse washed sand or other clean granular material essentially free from clay, fines, dust, organic matter, large stones, masonry, stumps, frozen clumps of earth, wood, tree branches, and waste construction material, and shall have a percolation rate of less than 2 minutes per inch before and after placement. Before the fill is put in place, all trees, brush, and stumps shall be removed from the area to be filled. Topsoil, peat, and other impervious materials shall be removed from all areas beneath the leaching facility and for a distance of 25 feet in all directions therefrom when the leaching facility is above natural ground elevation; or impervious materials shall be removed for 10 feet in all directions therefrom when the leaching facility is below natural ground elevation. No sewage disposal system shall be constructed in fill placed upon impervious material unless the requirements of 310 CMR 15.03(6) have been met.

12/31/86

310 CMR - 293





AMHERST Massachusetts

TOWN HALL **4 BOLTWOOD AVENUE** AMHERST, MA 01002-2351

PLANNING DEPARTMENT Planning (413) 256-4040 Community Development 256-4042 FAX (413) 256-4041

TO: Bettye Anderson Frederic, Health Director FROM: Marlene Leach, CDBG Administrator

DATE: December 12, 1994

RE: Amherst Board of Health letter to Department of Environmental Protection (D.E.P.) for Mandle Septic System

Please send me a copy of the letter sent to D.E.P. by the Amherst Board of Health regarding the Septic System for Dian Mandle's property at 351 Potwine Lane, Amherst, MA. Thank you.

cc: Connie Kruger, Community Development Planner

Sent-121494 to Connie

November 19, 1994

s* ...

Mr. Paul Netupsky Mass. Dept. of Environ. Protection Water Pollution Control 436 Dwight Street Springfield Massachusetts 01103

Transmittal # 58599

Dear Mr. Netupsky:

The Amherst Board of Health at their meeting on November 16, 1994 voted unanimously to support the Title V variance request submitted for Ms. Dian Mandle of 351 Potwine Lane, Amherst Massachusetts as follows:

0	310 CMR 15.02(17) Construction in Fill - Propose 17 feet
	Lack of space for 25 feet fill around system.
0	310 CMR 15.03(6) Required Depth of Pervious Material -
	Propose 3 feet - Lack of 4 feet of percable native
	materials.
0	310 CMR 15.12(2) Ground Water - Propose 3 feet
	Lack of 4 foot separation to minimize runoff.

It is the Board's opinion that the applicant has proved that the same degree of environmental protection required under this Title can be achieved without strict application of the particular provision.

Sincerely,

3

Bettye Anderson Frederic Health Director November 19, 1994

Mr. Paul Netupsky Mass. Dept. of Environ. Protection Water Pollution Control 436 Dwight Street Springfield Massachusetts 01103

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Transmittal # 58599

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Dear Mr. Netupsky:

The Amherst Board of Health at their meeting on November 16, 1994 voted unanimously to support the Title V variance request submitted for Ms. Dian Mandle of 351 Potwine Lane, Amherst Massachusetts as follows:

0	310 CMR 15.02(17) Construction in Fill - Propose 17 feet
	Lack of space for 25 feet fill around system.
0	310 CMR 15.03(6) Required Depth of Pervious Material -
	Propose 3 feet - Lack of 4 feet of percable native
	materials.
0	310 CMR 15.12(2) Ground Water - Propose 3 feet
	Lack of 4 foot separation to minimize runoff.

It is the Board's opinion that the applicant has proved that the same degree of environmental protection required under this Title can be achieved without strict application of the particular provision.

Sincerely,

Bettye Anderson Frederic Health Director November 19, 1994

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Ms. Dian Mandle 351 Potwine Lane Amherst Massachusetts 01002

Dear Ms. Mandle:

The Amherst Board of Health at their meeting on November 16, 1994 voted unanimously to support the Title V variance request submitted for Ms. Dian Mandle of 351 Potwine Lane, Amherst Massachusetts as follows:

-

0	310 CMR 15.02(17) Construction in Fill - Propose 17 feet
	Lack of space for 25 feet fill around system.
0	310 CMR 15.03(6) Required Depth of Pervious Material -
	Propose 3 feet - Lack of 4 feet of percable native
	materials.
0	310 CMR 15.12(2) Ground Water - Propose 3 feet
	Lack of 4 foot separation to minimize runoff.

It is the Board's opinion that the applicant has proved that the same degree of environmental protection required under this Title can be achieved without strict application of the particular provision.

Sincerely,

Bettye Anderson Frederic Health Director

cc: Department of Environmental Protection



· 21E Site Investigations · Subsurface Investigations

· Pollution Remediation

· LSP on Staff

October 24, 1994

Mr. Paul Netupsky Massachusetts Department of Environmental Protection Bureau of Water Pollution Control, 436 Dwight Street Springfield, Ma. 01103

Mr. David Zarozinski, Agent Amherst Health Department Amherst Ma. 01002

RE: Septic System Repair & Variance Approval Dian Mandle Residence, 351 Potwine Lane, Amherst, Ma. Transmittal Form # 58599

Dear Mr. Netupsky & Mr. Zarozinski:

A variance from Title V is requested for the repair of the system at the above mentioned property. The following variances are noted:

-lack of space for 25 fill around the system due to property line and house proximity (310 CMR 15.02(17)).

COLD SPRING ENVIRONMENTAL

CONSULTANTS, INC.

-lack of 4 feet of percable native material beneath the leaching system (310 CMR 15.03(6)).

-lack of 4 foot groundwater separation from beneath the septic system in order to minimize runoff and grade problems toward house (3 foot is proposed).

Similarly, the Amherst Health Department has been contacted herein on the same variance request and I have noted to them that I have had a previous telephone conversation with you regarding the groundwater separation issue. Because groundwater in the neighborhood of the site is not used for potable purposes and the proposed approach would also mitigate slope and possible breakout concerns, you noted the Department (DEP) would likely consider the request as feasible for approval subject to complete review of the variance request.

Finally, A determination of Applicability will be forwarded to the Amherst Conservation Department and the Mass. DEP-Wetlands Division because of the proposed filling in the buffer zone. Our experience with this situations is that the submittal is routine and the work will be allowed as proposed.

It is my opinion that given all the possible scenarios for a new disposal system, and due to spatial constraints, that this plan best meets the intent on the Sanitary Code 310 CMR 15.00 and the Wetlands Protection Regulations 310 CMR 10.00.

Please see the proposed plan attached (four copies). This approval request has

00124 1001

· Percolation Tests and

· Recycling and Solid Waste .

Septic Designs · Regulatory Compliance



October 24, 1994

Page 2:

also been sent to the Amherst Board of Health who will have approved the variance (see Attachment). The Amherst Conservation Commission and the DEP Wetland Office in Springfield have also been sent appropriate Determination of Applicability Filings. A filing fee of \$ 200.00 has been sent to Boston with the proper administrative forms also attached.

Please feel free to contact me should you have any questions.

Sincerely,

Cold Spring Environmental Consultants, Inc.

14.6 Alan E. Weiss, M.S. President Principal Hydrogeologist Registered Sanitarian Lic. #933

cc: Dian Mandle, 351 Potwine La., Amherst



OCT 2 & IDEN





AMHERST Massachusetts

AMHERST HEALTH DEPARTMENT 70 BOLTWOOD WALK AMHERST, MA 01002-2128 (413) 256-4077

Bettye Anderson Frederic, Director

- Date: October 27, 1994
- Bettye Anderson Frederic To:
- From: David Zarozinski 🖌
- Variance Request from Title V to repair a septic system located at 351 Re: Potwine Lane, Amherst, MA

I have reviewed the septic system plans for Ms. Dian Mandle, prepared by Mr. Alan Weiss of Cold Spring Environmental.

The variances from Title V are as follows:

1) There will be a variance from the requirement of twenty-five feet (25') of fill around the leach bed. Instead, there will be approximately seventeen feet (17') of fill.

2) There will be a variance from the requirement of four feet (4') of native percable material beneath the leaching system [regulation - 15.03 (6)].

3) There will be a variance from the requirement of a four foot (4') groundwater separation from beneath the leaching system. In order to minimize runoff and grade problems, a three foot (3') separation is proposed.

I support the request for these variances because:

1) Town water is available.

2) The system is designed twenty-five percent (25%) larger than Title V.

3) The current system has failed. In my opinion, with the contraints of the layout of the land and developed area, this septic system plan is the best design considering the circumstances.

It's time we made smoking history.



			CDBC
No. 94-2/			JUL OF THE T
• THE	COMMONWEALTH	OF MASSACHUSETTS	THEALTH OF MARCH G.U
	BOARD OF	HEALTH	ALAN E. WEISS E
TOWN	OF AM	HERST	EC #933 NETT
Application for Disposal Works Construction Formit			
Application is hereby made for a System at:	Permit to Construct	t () or Repair (X) an	Individual and ge Disposal
351 POT WINE LA	NE	201 2	
DIAN MANDLE		351 POTWIN	JE LA
Owner		A	ddress
Installer		A	ddress
Dwelling No. of Bedrooms	4	Expansion Attic (A)	Garbage Grinder (N)
Other — Type of Buildingk Other fixtures	2 4.5 No. of p	persons	wers () — Cafeteria ()
Design Flow	.gallons per person p	er day. Total daily flow	990 gallons.
Disposal Televit - No V	.gallons Length	I Length XO' Total	leaching area 960 so ft
Seepage Pit No Diameter	Depth b	elow inlet Total	leaching areasq. ft.
Other Distribution box ()	Dosing tank ()		
Percolation Test Results Perform	ned by	Sast Dit // Depth t	Date 10 17 19.
Test Pit No. 2minutes	per inch Depth of T	est Pit	o ground water OXIDES
20		0.4/	
Description of SoilDKOLIN	AND AND 6	ILAVEL OVER	Key CLAT
Nature of Repairs or Alterations – A CHAMBER PASED F	nswer when applicab BED REGID,	REPIPE DASE	MENT D ALCOMPAT
Agreement: The undersigned agrees to insta	ll the aforedescribed	Individual Sewage Disposa	System in accordance with
system in operation until a Certificate	of Compliance has be	en issued by the board of h	ealth.
.,	Signed Dian	Mardle	10/25/94
Application Approved By	orgined		Date
A Dia Dia Dia Dia di Chi	•		Date
Application Disapproved for the follo	wing reasons:	1	
Permit No 94-2	1	Idented	Dute
remit ino.	1	Issued	Dute
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THIS IS TO CERTIFY That the	e commonwealth o BOARD OF OF Ani La Certificate of C	F MASSACHUSETTS HEALTH Dompliance Disposal System constructed	() or Repaired (—)
TH THIS IS TO CERTIFY, That the by	e commonwealth o BOARD OF OF An La Certificate of C Individual Sewage I	F MASSACHUSETTS HEALTH Jompliance Disposal System constructed	() or Repaired () -
THIS IS TO CERTIFY, That the by	e commonwealth o BOARD OF OF Ant Le Certificate of Individual Sewage I	F MASSACHUSETTS HEALTH Dompliance Disposal System constructed	l () or Repaired ()

DATE

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Inspector



TOWN OF AMHERST 101294 ? Planning dept 4.1 PERC TEST DATA SHEET DATE 10/1/94 LOCATION 351 POTWINE HANE LOT SIZE OWNER DIAN MANDLE ADDRESS 351 POTWINE LANCE TELE # 256-3417 P.E./RS ALAN WEISS FIRM Cold Strang ENV. OBSERVED BY DAVID ZANOZINSH. BACK HOE OPERATOR CLARKING WAIHER TELE 3-23-4407 BENCH MARK PERC DEPTH 36 PRE SOAK TIME 9:01 - 9:16 PERC DEPTH ____ PRE SOAK TIME ____ 8" 9:25 TEST 12" 9116 9:17 7" 11 " 9128 9:32 9119 10 3" in IOMIN 9 9122 RATE RATE TOWN WATER NO 6/6 F1 # 2 TOP F TOP 6 NO SUB ACO SUB OXIPE 2' SXIDE 2 GRAVER 3' grand 2'2" greyclay CLAV 11 WATEN WATEN TOP TOP SUB SUB 2 4 Bedrooms TOP TOP 26 No GIG SUB SUB TO all TANK POTWINE LANE

EH1: PERCFORM



FEB-14-1995 12:33 COLD SPRING ENNU., INC. P.02 JOB_ MANDLE SERVIC -HODENDUML PRING ENVIRONMENTAL SHEET NO. -2/14/95 A. Weiss CALCULATED BY Belchertown, MA 01007 . (413) 323-5957 CHECKED B 1=40' SCALE (Bortom SIDNE, B.M. SILL 100" POT WINE LA. INU. AT. House 97.60 0.05005 INU. SEP. TAIL IN 97.15 INU. " " OUT 96.90 DRIVE INV. D.B IN 96.65 INU. D.B. ONT 96.45 # 351 INV. Leach IN 96.35 INV. LERG OUT 95.95 BOT BED AT 95.45 (1500 SILT FENCE NOTE: - WITH THIS CHANGE - PUUMBING COST TO BE LOWER. - NO PUMP & CHAMBER NEEDED. - MORE FILL REQUIRED IN REAR OF HEISE - MUST FAICLOSE VORK AREA W/ SILT FRICE. - BED ELEVATION + LOCATION IS SOME. AS APPROVED. - BED PITCH is TO NORTH built LAN E. WEIS REG. #933 Isur TOTAL P.02



COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.

350 Old Enfield Road Belchertown, Ma. 01007 tel (413) 323-5957 fax (413) 323-4916

fax transmittal

- to: Dave Zarozinsky
- fax #: 2\$6-4041

EB-14-1995 12:33

- from: Alan E. Weiss
- date: February 14, 1995
 - re: Mandle Septic
- pages: 2, including this cover sheet
- NOTES: Dave,

This septic is proposed to be changed without a pump and pump chamber as noted. The location and elevation of the septic remains the same. With piping exiting the rear of the house the system can gravity flow (a preferred option)

Please call with any questions.

Alan Weiss, R.S.

P.01





SUIL LOGS 12'x 40' L. DED TP-1 (94,451) TP-2 DESCRIPTION TOPSOIL +SUBSOIL 0-8" 0-6" BROWN SAND + GRAVEL 6"-26" 8 "-36" 26'-10' 36"-11' GRAT VARUED CLAY, LITTLE SILT, TR. F. SAND, - OXIDES AT 24" Ho et 7'. PERC RATE AT 30" = YMW IIN ON 10/7/94 BY A WEISS, es.) - VENT TO SUFFACE NTS DESIGN NOTES 1. DESIGN BASED ON PERC RATE OF 4 MIN IZN - DESIGN RATE (8 HAU IZN) 2. DESIGN CRITERIA: HOR × 110 GAL => 50 GAL × 1.25 => 550 GAL -3. ONE 12' × 80' LETICH BED = 960 3F × 0.63 GAL > 605 GAL 4. ASSUME TWO PIPES 78' LONG, W/6' SPACING 5. No GARBAGE DISPOSAL ALLOWED 6. FILL TO BE PLACED IN ACCOLDANCE WITHLE I & AMHERST ADVISORY REMOVE ALL TOPSOIL FIRST. TOP SILL BM. 7. SANITARIAN TO INSPECT ! SUBGRADE , SENE + FINAL STOTEM 8. OUTLET PIPES FROM D. BOX TO BE LOVEL FOL AT LEAST 2'. 9. NO WELLS W/ N 100' OF SSDS, TOWN H.O SUPPLIED. 10. USE PUNP & PUMP CHAMBER (GOULD WUOSHAH 1214 OR EQUIVILENT) WI ALARMS AND 1000 GAL (HAMBER. (310 (MR 15.05). 98 WETLAND REQUIREMENTS 1. WORK SUBJECT TO WETLANDS REDS. 310 CARE 10.00 ODETERMINATION OF APALICABILITY 2. ALL WORK IN BUFFER ZONE AS NOTED 3. ESTABLISH NO WORK WITH SILT FENLE 4. NO WORK WITHIN 50' OF RESOURCE AIREA . 5. APPROXIMATELY 1200 SF IN EUFFER TIONE DEP VARIANCES REQUIRED REQUIREMENT OF 4' OF NAT'L OLUELING MAT'L. (310,15,03 (6)), [3' DESIGN] 94 1. VARIANCE FROM of 25' OIF FILL AROUND L. BED. (310, 115.02 (17)). 2. 3. FROM 4'G.W. SEAN RATION REGIMT, (TO 3'). BERDULE OF RUNDER ION CEENS. 11 H20-TANCE - 92 SEPTIC TANK BOUPANCY CALLS. * An 3' SUGMERGED 3' × 41 SF × 62. 4 CF = 7,675 15 V OK WEIGHT OF EMPTY TANK (NO SOIL CONER) 8,800 16 (Ref. Kelloy Bros.) 90 ++ NOTE! BASEMENT MUST BE REPIPED TO ACCOMUDATE SILL DISCHARGE ELEN. PROPOSED SEPTIC REPAIR PLAN FOR - 88 DIAN MANDLE 351 POTWINE LA., AMHERST, MA. APPROVED BY DRAWN BY AW SCALE: DATE: 10/21/94 COLD SPRING ENVIRONMENTAL, INC. BELCHERTOWN, MA. 323-5957 OCT 2 M T DRAWING NUMBER 94-404-0822