

340 Skays



Town of



AMHERST

Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002
(413) 259-3077 (413) 259-2404 - FAX Environmental Health Division (413) 259-3078

May 17, 2011

RE: 340 Shays Street, Geothermal Well

Dear Amherst Board of Health:

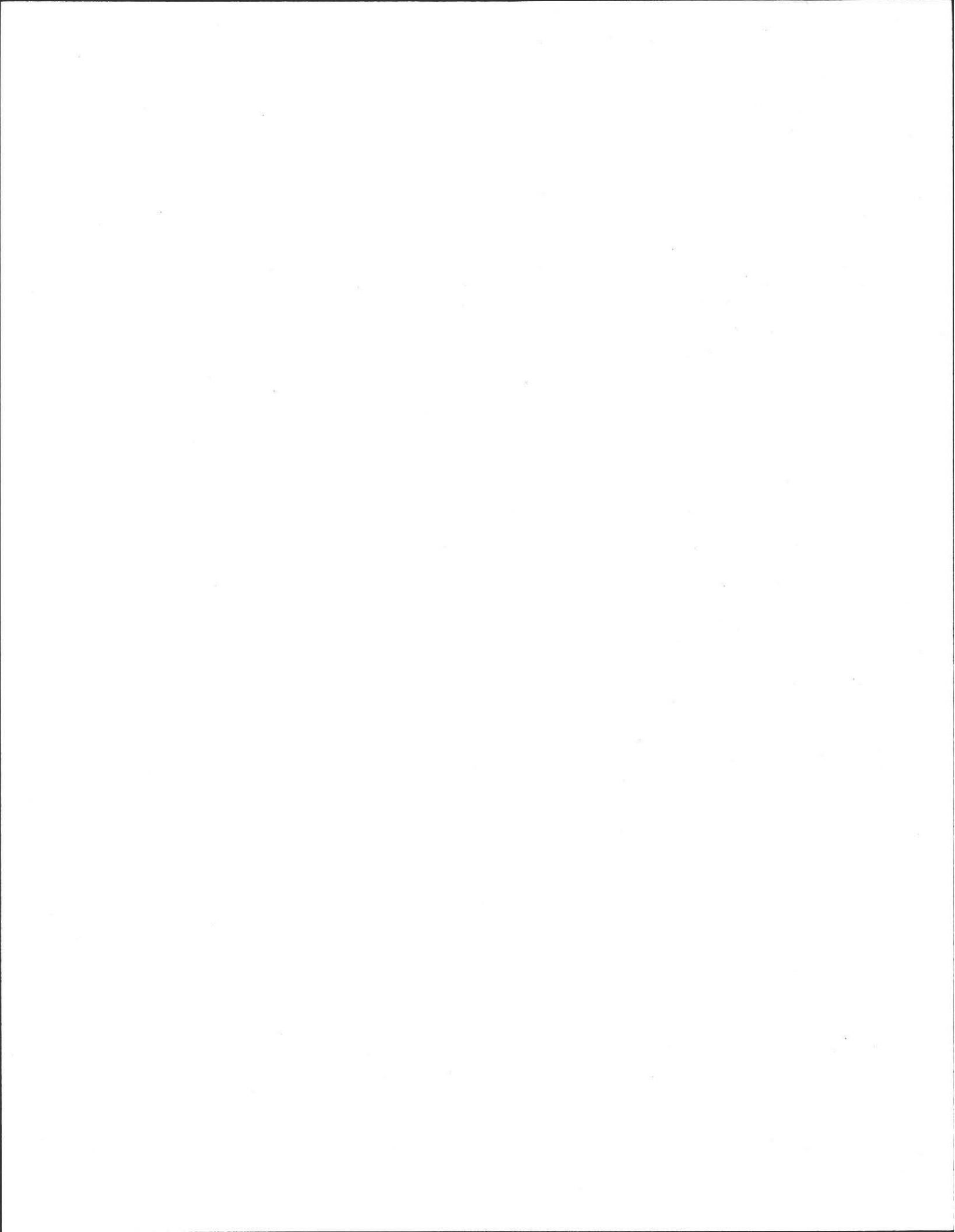
I have reviewed the plan for installation of a geothermal well at 340 Shays Street, currently owned by Brian Doyle. In my opinion the proposed well plan design meets the requirements of the Amherst Board of Health Regulations for Private Wells as adopted on October 30, 2008, amended regulations effective March 15, 2011.

Mr. Michael Simonelli of Terraclime Geothermal has been invited to attend the 05/26/2011 BOH meeting to discuss and review the geothermal well site, and address any concerns or questions you may have.

Respectfully submitted by,

Javeria Mir, MPH, RS
Assistant Sanitarian

original



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AMHERST, MA 01002

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APPLICATION FOR A WELL CONSTRUCTION PERMIT

I hereby petition the Board of Health of the Town of Amherst for a Well Construction Permit (WCP) to install a private well in the Town of Amherst. **ATTACHED IS A PLAN SHOWING THE PROPOSED LOCATION OF THE WELL (WITH ORIGINAL DATE, STAMP AND SIGNATURE OF AN ENGINEER, REGISTERED SANITARIAN, OR REGISTERED LAND SURVEYOR) AND ALL OTHER REQUIREMENTS OF THE AMHERST BOARD OF HEALTH REGULATIONS FOR PRIVATE WELLS.**

- 1. Address of Property: 340 Shays Street
- 2. Assessor of Parcel Number: 20D-36
- 3. Name of Owner: Brian Doyle Telephone Number: 413-253-0736
Address of Owner: same
- 4. Name of Well Driller: Henshaw Well Drilling (Kirke/Dan Henshaw) Reg. # 196
(Must be registered with Massachusetts Water Resources Commission)
- 5. Purpose of Well: *Drinking () Agricultural Only () Ground Source Heat Pump (X)
\$100.00 \$50.00 \$50.00

The undersigned acknowledges that he must, before commencing construction or use of the system which is the matter of this application, secure any and all other permits which may be required by the laws of the Town of Amherst and the Commonwealth of Massachusetts, and agree to abide by all regulations of the Town of Amherst and the Commonwealth of Massachusetts concerning private wells.

The undersigned also understands that if a private well is to be used for drinking purposes, a **BUILDING PERMIT** affecting the structure the well is to serves **WILL NOT BE ISSUED UNTIL A** Water Supply Certificate has been granted by the Amherst Board of Health.

Name of Applicant: Terraclime Geothermal

Applicant Signature: [Signature] Date: 5-10-11

For Office Use Only	
<input checked="" type="checkbox"/> Permit Issued By: <u>Amherst Board of Health</u>	<input type="checkbox"/> Permit Denied By: _____
PERMIT NUMBER: _____	REASON: _____
DATE ISSUED: <u>May 26, 2011</u>	DATE DENIED: _____
Inspected By: _____	Fee Paid: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Amount <u>50.00</u>
Inspection Date: _____	Cash/Check # <u>15116</u>
	Date of Payment <u>5-19-11</u>

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all entries are clearly legible and properly dated.

3. The second section covers the various methods used to collect and analyze data.

4. These methods include both qualitative and quantitative approaches, each with its own strengths and limitations.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Drinking Water Program

UIC Registration Application for Closed-Loop Ground Source Heat Pump Well

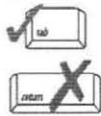
Registration Category

Registration of Underground Discharges to Injection Well(s)
Modification to an Existing UIC Registration

UIC Registration Fee - Exempt

For Modifications to an Existing UIC Registration

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Check all that apply: Change of owner Change in # of discharge wells (+/-)

Enter UIC Registration Number issued by MassDEP for the initial UIC Registration (required for modifications): MAS11A008205-5CL
UIC Registration #

A. Site Information

Private Residence

Property name (enter "Private Residence" if unnamed)

340 Shays St

Amherst

Property Street Address

City/Town

MA
State

01002
Zip Code

B. Owner Information

Brian Doyle

Name of Owner

340 Shays St

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

413.253.0736

Telephone Number

bdoyle1@comcast.net

Email (optional)

C. Registered Well Driller

Kirk Henshaw / Dan Henshaw

Well Driller's Name

Reg. No. 196

MassDEP Well Driller Certification Number

Henshaw Well Drilling

Name of Company

413.296.4725

Telephone Number

D. Injection Well Information

two 330' HDPE bores w/ u-loops

Total Number of Wells (existing plus proposed)

Type of Discharge: Direct Exchange Heat Pump Closed Loop Heat Pump

E. Preparer

Michael Simonelli

Printed Name

5/4/2011

Date

413.233.9389

Telephone Number

Project Manager

Position/Title

msimonelli@terraclimegeo.com

Email (optional)

Send a duplicate copy of this form to the local board of health.



340 Shays St. Amherst, MA

Doyle residence, closed loop geothermal install

20D-71

20D-18

256.35

46.23

205.99

206

118.93

20D-53

219.48

138.46

20D-36

100.46

239.52

79.72

206.36

← 10' building offset

← 2, 330' closed loop bores with 30' separation

20D-56

SHAYS ST

210.02

210.00

20.29

20D-57 21.96

40.0

20D-45

20D-17



- Property Map**
 - Property Lines
 - Hydrographic Property
 - Right of Way Line
 - Town Boundary
 - Other Property Lines
 - Former Property Line
 - Subdivision Lot Line
 - Easements
- Driveways**
 - Driveway Paved
 - Driveway Unpaved
- Transportation**
 - Paved street polygons
 - Unpaved street polyg
- Bridges**
 - Bridge decking and str
 - Foot Bridge
 - Rail Bridge
- Basemap**
 - Trails
 - Rail Lines
- Structures**
 - Building
 - Foundation or In const
 - Outbuilding or Miscell
 - Deck, Porch, Stairs or
 - Mobile home, Trailer
 - Swimming Pool
 - Building Ruins
 - Water storage tank
- Rivers and Streams**
 - Streams
 - Major Culverts
 - Hydro Connector
 - Headwalls, Floodwalls
- Landcover**
 - Brush and scrub vege
 - Tree and forest vege
 - Cultivoid field
 - Gravel pile
 - Quarry
 - Misc Impervious Surfs
- Parking**
 - Parking Paved
 - Parking Unpaved

Horizontal Datum: MA Stateplane Coordinate System, Zone 4151, Datum NAD83, Feet
Vertical Datum: NAVD88, Feet

Planimetric & topographic basemap features compiled at 1"=40' scale from April, 2009 Aerial Photography. Parcels compiled to match the basemap; revisions are ongoing.

The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition, regulatory interpretation, or property conveyance purposes. Utility structures and underground utility locations are approximate and require field verification.

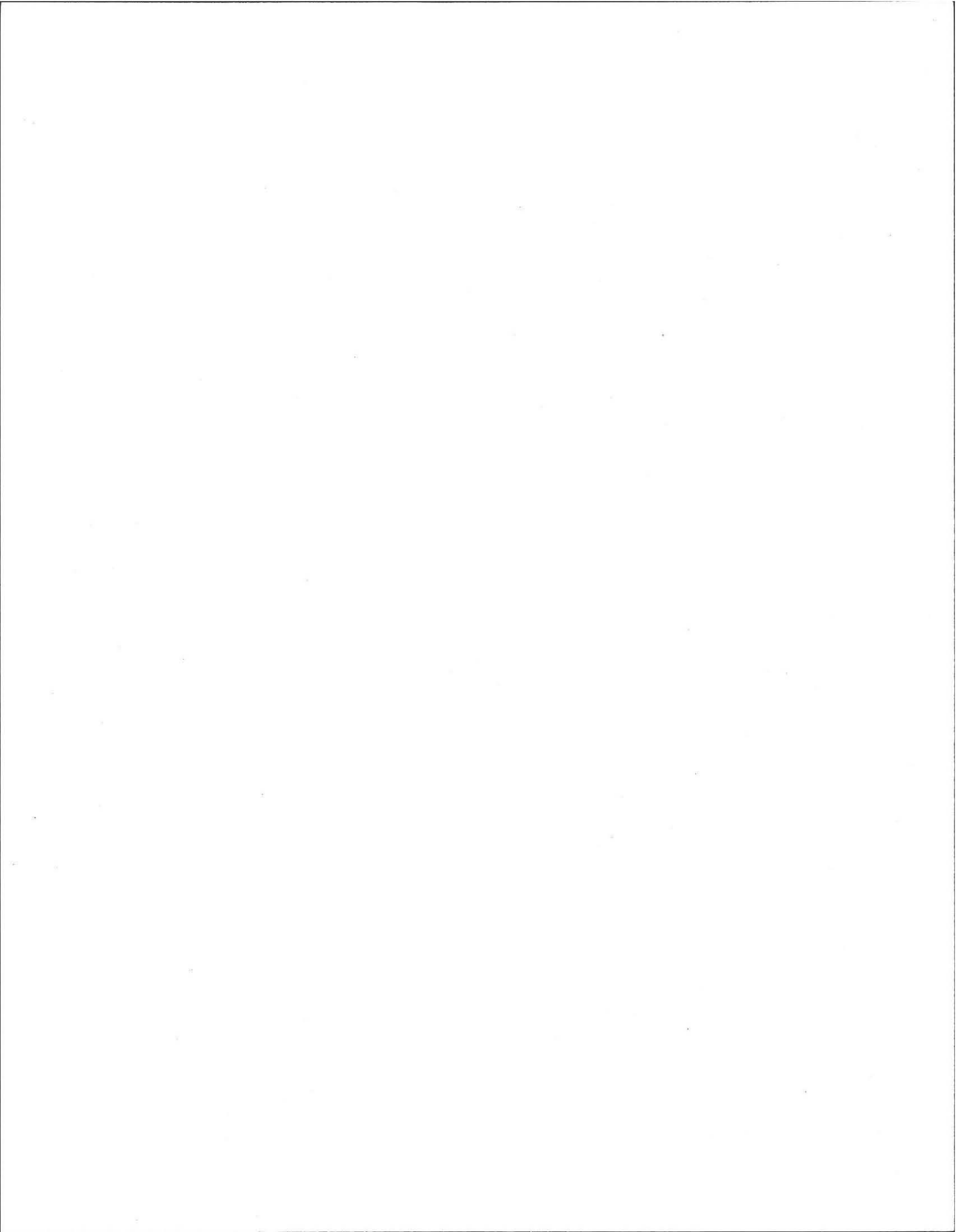
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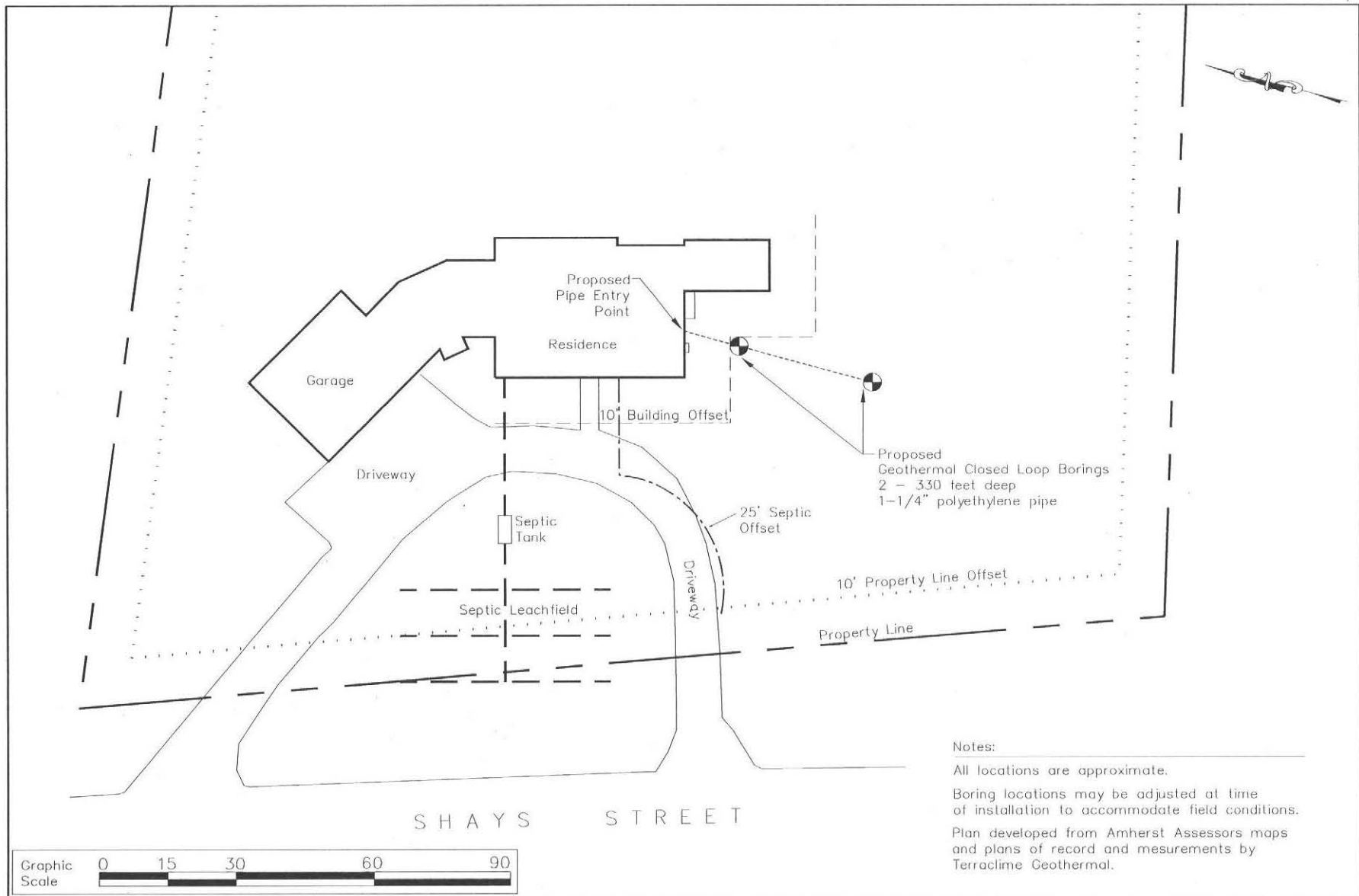
1" = 48 ft



Amherst GIS Viewer

April 7, 2011





Notes:
 All locations are approximate.
 Boring locations may be adjusted at time of installation to accommodate field conditions.
 Plan developed from Amherst Assessors maps and plans of record and measurements by Terraclime Geothermal.



SHAYS STREET

Terraclime
 GEOTHERMAL

Phone: 1-877-372-5236 Web: www.terraclimegeo.com

REVISIONS		
No.	Date	Description

PROJECT: Doyle Residence
 340 Shays Street
 Amherst, Massachusetts

TITLE: Site Plan

COMPUTER CADFILE : 215367geo.dwg

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS	MS	MS	MS
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1" = .30'	5/17/11	215367	1

