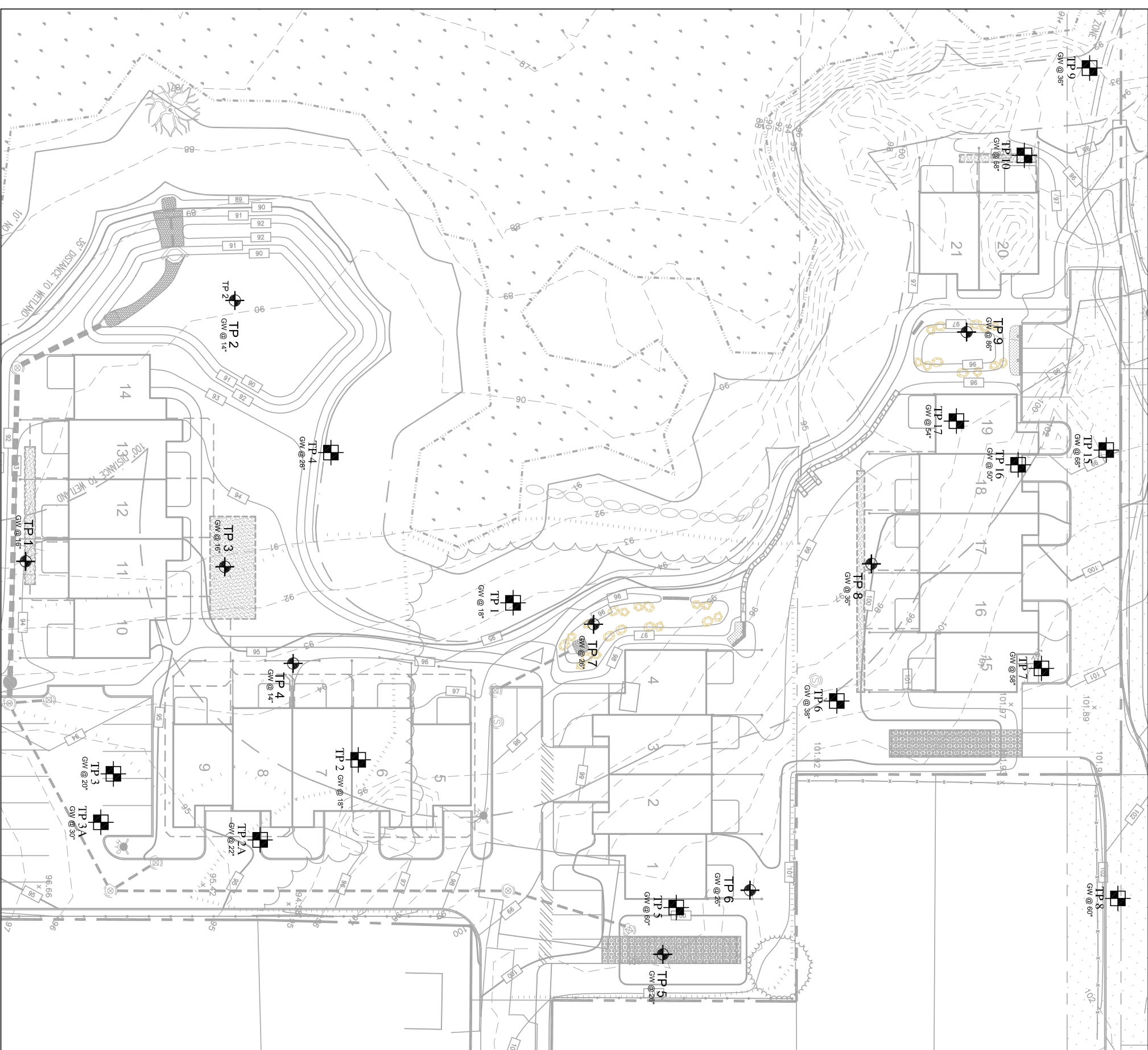
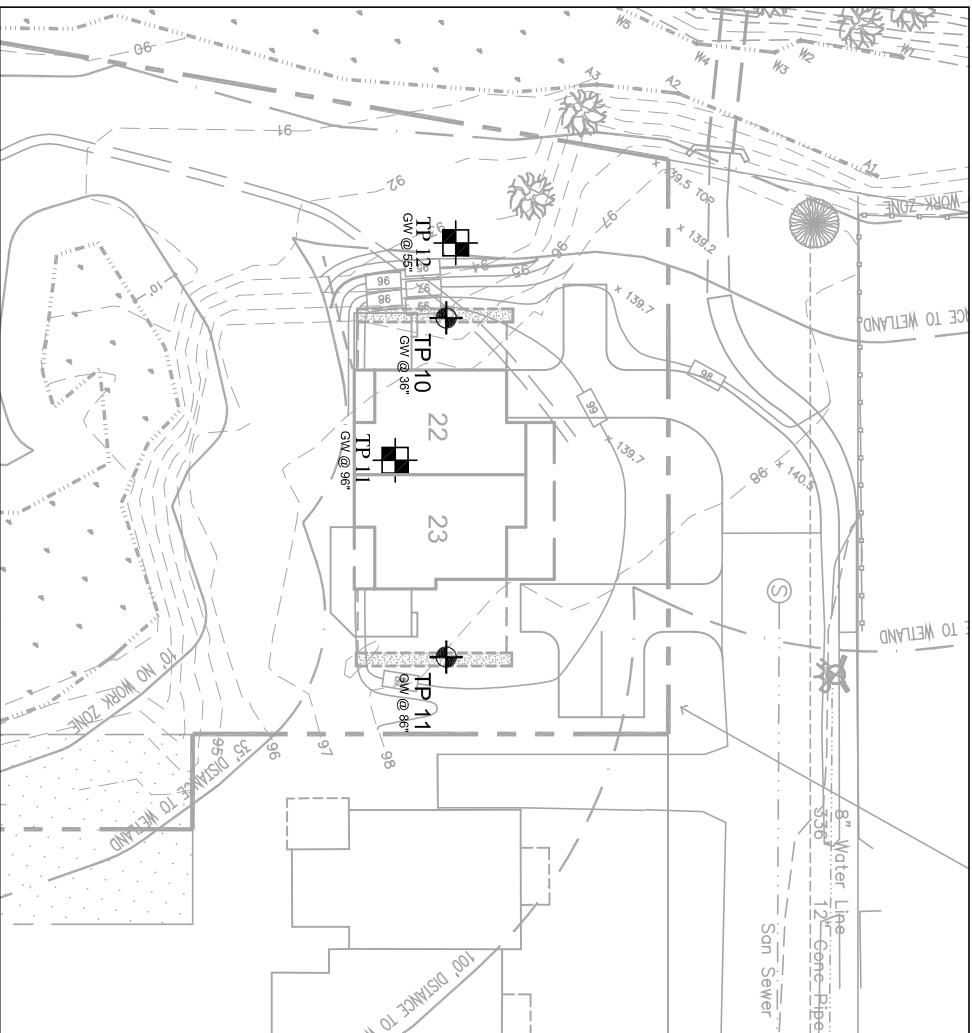
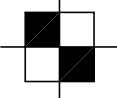

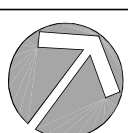


## **Appendix B – Soil Test Pit Information**




  
**TP #**  
 TEST PIT PERFORMED BY THE  
 BERKSHIRE DESIGN GROUP, INC.  
 ON 01/05/07, 01/06/07, and 10/31/07


  
**TP #**  
 TEST PIT PERFORMED BY COLD SPRING  
 ENVIRONMENTALCONSULTANTS INC.  
 ON 03/09/09 and 03/10/09

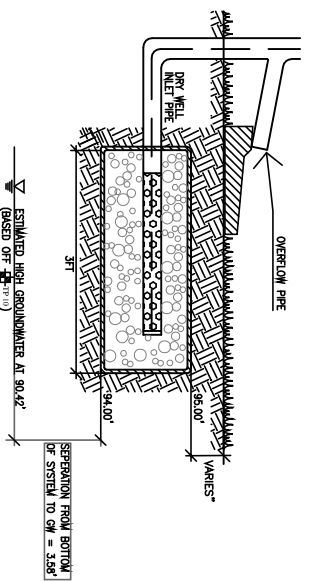



 The Berkshire Design Group, Inc.  
 4 Allen Place Northampton, Massachusetts 01060  
 (413) 582-7000 • FAX (413) 582-7005

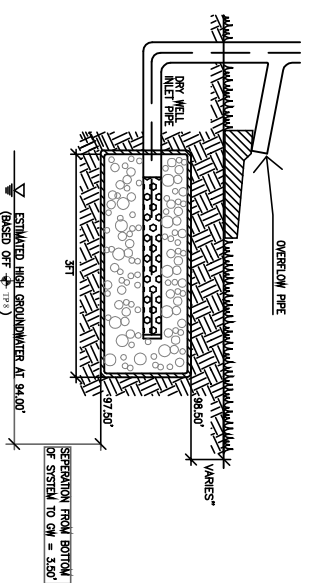
Sheet Title: **Test Pit Locations**  
**North Street Condominiums**  
 NORTHAMPTON MASSACHUSETTS

Reference:  
 Date: 04/14/09  
 Scale: 1"=80'

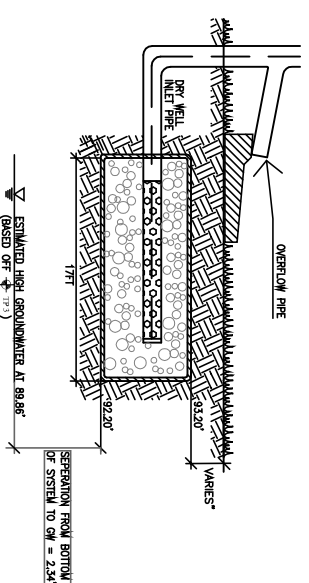
Sheet Number:  
**TP1**



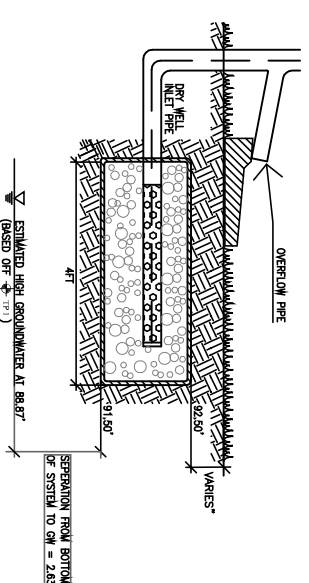
1 Dry Well 1  
Not to Scale  
TP2



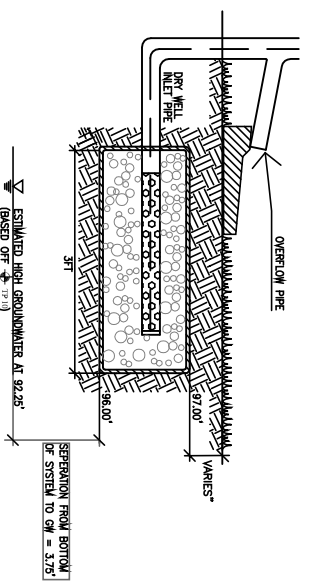
2 Dry Well 2  
Not to Scale  
TP2



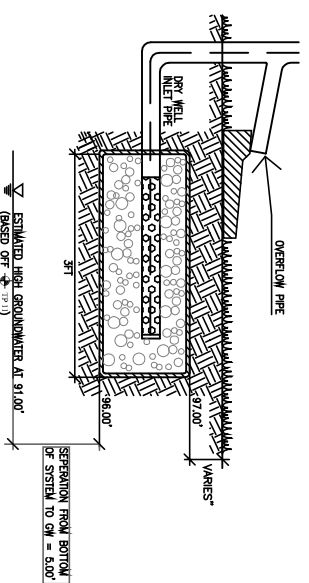
3 Dry Well 3  
Not to Scale  
TP2



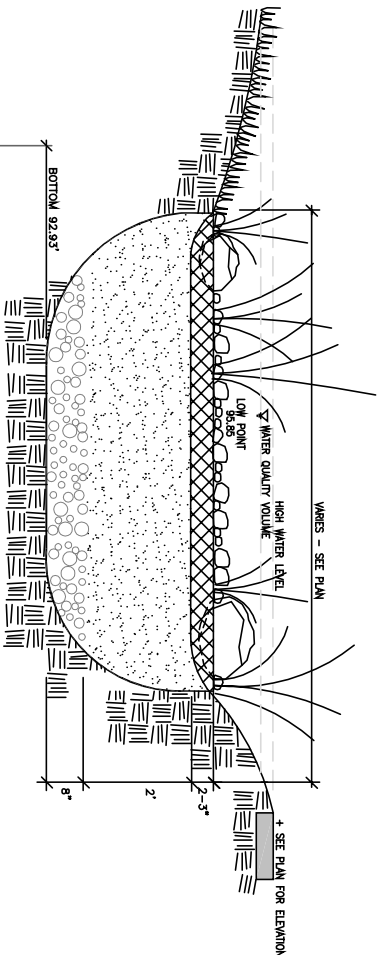
4 Dry Well 4  
Not to Scale  
TP2



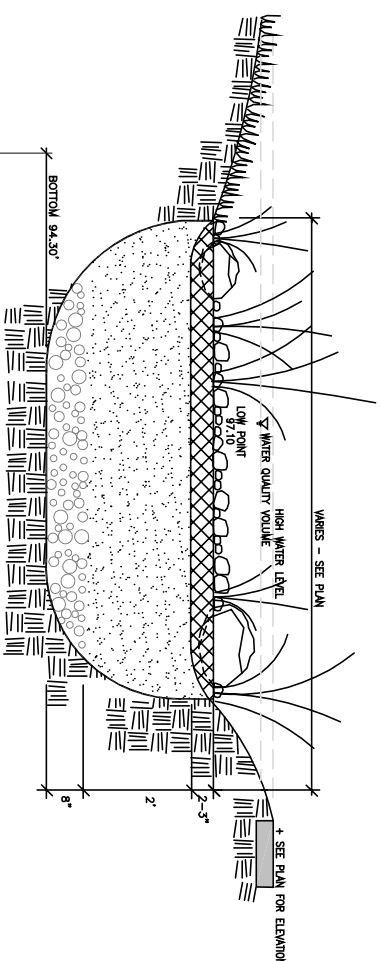
5 Dry Well 5  
Not to Scale  
TP2



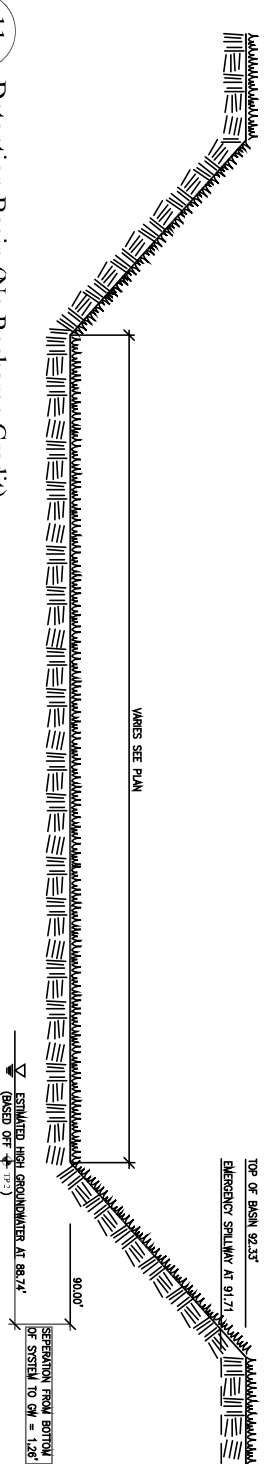
6 Dry Well 6  
Not to Scale  
TP2



9 Rain Garden 1  
Not to Scale  
TP2



10 Rain Garden 2  
Not to Scale  
TP2



11 Detention Basin (No Recharge Credit)  
Not to Scale  
TP2

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 1 Date: 01/05/07 Time: 9:15am Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Lawn Area Slope (%) See Plan Surface Stones n/o

Vegetation grass & some trees

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	_____

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-9"	A	VFSL	10YR3/3	5Y 4/6 <5%	Massive, Friable, roots
9"-21"	B <sub>w</sub>	VFSL	2.5Y4/4	5YR4/6 >10% @18"	Massive, Friable
21"-53"	C <sub>1</sub>	VFSL/ Loam	5Y5/2	5YR4/6 >35%	Massive, friable, stratified FS & Loam, some smearing, somewhat firm
53"-80"	C <sub>2</sub>	SL	10YR4/4	2.5YR3/6 >35% throughout	Massive, friable, sloughing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 80"

Depth to Groundwater: Standing Water in the Hole: 57" @ 15 minutes Weeping from Pit Face: 55"

Estimated Seasonal High Ground Water: 18"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

<b>Note:</b> This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.
---

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 2 Date: 01/05/07 Time: 9:40am Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Norway Spruce

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-12"	A	VFSL	10YR3/3	5Y 4/6 <5%	Massive, Friable, some roots, apparent fill at south end of TP down to 36"
12"-19"	B <sub>w</sub>	VFSL	2.5Y4/4	5YR4/6 >10% @18"	Massive, Friable
19"-45"	C <sub>1</sub>	VFSL/ Loam	5Y5/2	5YR4/6 >35%	Massive, friable, some smearing, somewhat firm, excavation collapsed

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 45"

Depth to Groundwater: Standing Water in the Hole: 40" Weeping from Pit Face: \_\_\_\_\_

Estimated Seasonal High Ground Water: 18"

**Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

<p><b>Note:</b> This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.</p>
--

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 2A Date: 10/31/07 Time: 9:00am Weather P-Cloudy 40 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Norway Spruce

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	_____

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-10"	A	VFSL	10YR3/3	5Y 4/6 <5%	Massive, Friable, some roots
10"-30"	B <sub>w</sub>	VFSL	2.5Y4/4	5YR4/6 >10% @22"	Massive, Friable, roots to 21"
30"-70"	C <sub>1</sub>	VFSL/ Loam	5Y5/2	5YR4/6 >35%	Massive, friable, some smearing, somewhat firm, excavation collapsed, fine sand in lower 12"

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 70"

Depth to Groundwater: Standing Water in the Hole: 66" @ 10 minutes Weeping from Pit Face: 66" (rapid)

Estimated Seasonal High Ground Water: 22"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

<b>Note:</b> This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.
---

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 3 Date: 01/05/07 Time: 10:10am Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Norway Spruce

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-9"	A	VFSL	10YR3/3		Massive, Friable, roots
9"-15"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable, roots
15"-50"	C <sub>1</sub>	VFSL/ Loam	5Y5/2	5YR4/6 >15% @ 20"	Massive, friable, sloughing, stratified FSL & Fine Sand
50"-65"	C <sub>2</sub>	Fine Sand	10YR4/4	2.5YR3/6 >35% throughout	Massive, friable, sloughing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 65"

Depth to Groundwater: Standing Water in the Hole: 61" Weeping from Pit Face: 55"

Estimated Seasonal High Ground Water: 20"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 3A Date: 10/31/08 Time: 9:30am Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Norway Spruce

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-7"	A	VFSL	10YR3/3		Massive, Friable, roots
7"-15"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable, roots
15"-70"	C <sub>1</sub>	VFSL/ Loam	5Y5/2	5YR4/6 >15% @ 30"	Massive, friable, roots down to 20", sloughing, stratified FSL & Fine Sand, fine sand at pit bottom, excavation collapsed

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 70"

Depth to Groundwater: Standing Water in the Hole: 67" @ 5 minutes Weeping from Pit Face: 64" (moderate)

Estimated Seasonal High Ground Water: 30"

#### Percolation Test:

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.



Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 4 Date: 01/05/07 Time: 4:00pm Weather Cloudy 10 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Norway Spruce

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	_____

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-5"	A	VFSL	10YR3/3	5Y 4/6 <5%	Massive, Friable, roots
5"-15"	B <sub>w</sub>	VFSL	2.5Y4/4	5YR4/6 <5% @18"	Massive, Friable, Roots down to 18"
15"-65"	C <sub>1</sub>	FSL	5Y5/2	5YR4/6 >10% @28"	Massive, friable, stratified FSL & Fine Sand, some smearing, somewhat firm

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 65"

Depth to Groundwater: Standing Water in the Hole: 51" Weeping from Pit Face: 48"

Estimated Seasonal High Ground Water: 28"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

<b>Note:</b> This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.
---

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 5 Date: 01/05/07 Time: 3:00pm Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Lawn Area Slope (%) See Plan Surface Stones n/o

Vegetation grass

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-9"	A	VFSL	10YR3/3		Massive, Friable, roots
9"-21"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable
21"-107"	C <sub>1</sub>	VFSL/ Loam	5Y5/2	5YR4/6 >10% @60"	Massive, friable, no cobbles or gravel, stratified VFSL & Fine Sand, some smearing,

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) glaciolacustrine Depth to Bedrock: > 107"

Depth to Groundwater: Standing Water in the Hole: 92" Weeping from Pit Face: 92"

Estimated Seasonal High Ground Water: 60"

#### **Percolation Test:**

**Depth to Perc:** 45"  
**Start Pre-Soak 12":** 3:14  
**End Pre-Soak 12":** 3:36 (8 gals used)  
**Time at 12":** 3:36  
**Time at 9":** 3:42  
**Time at 6":** 4:00  
**Time (9"-6"):** 18 minutes  
**Rate:** 6 min/inch

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 6 Date: 01/05/07 Time: 11:10am Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8"	A	Forest Mat	10YR3/3		Massive, Friable, roots
8"-29"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable
29"-88"	C <sub>1</sub>	FSL	5Y5/2	5YR4/6 Distinct >5% @38"	Massive, friable, stratified FSL and Fine Sand, roots throughout, sloughing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 88"

Depth to Groundwater: Standing Water in the Hole: 79" Weeping from Pit Face: 67" (slow)

Estimated Seasonal High Ground Water: 38"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 7 Date: 01/05/07 Time: 11:45am Weather Clear 10 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8"	A	Forest Mat	10YR3/3		Massive, Friable, roots
8"-19"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable
19"-90"	C <sub>1</sub>	FSL	2.5Y5/3	5YR4/6 Distinct >5% @58"	Massive, friable, stratified FSL and Fine Sand, roots down to 31", sloughing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 90"

Depth to Groundwater: Standing Water in the Hole: 84" Weeping from Pit Face: 84" (slow)

Estimated Seasonal High Ground Water: 58"

#### **Percolation Test:**

**Depth to Perc:** 46"  
**Start Pre-Soak 12":** 12:18  
**End Pre-Soak 12":** 12:33 (18 gals used)  
**Time at 12":** 12:33  
**Time at 9":** 12:36  
**Time at 6":** 12:41  
**Time (9"-6"):** 5 minutes  
**Rate:** < 2 min/inch

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 8 Date: 01/05/07 Time: 1:45pm Weather P-cloudy 10 F

Location (identify on site plan) See Plan

Land Use Old roadway Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	_____

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-15"	Fill				Roadway bed, strong staining at fill/C1 interface (variegated colors)
15"-95"	C <sub>1</sub>	VFSL	2.5Y4/4	5YR4/6 Distinct >5% @60"	Massive, Friable, stratified FSL and Fine Sand

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 108"

Depth to Groundwater: Standing Water in the Hole: 90" Weeping from Pit Face: 69" (slow)

Estimated Seasonal High Ground Water: 60"

**Percolation Test:**

Depth to Perc: 49"  
Start Pre-Soak 12": 2:10  
End Pre-Soak 12": 2:25 (10 gals used)  
Time at 12": 2:25  
Time at 9": 2:30  
Time at 6": 2:36  
Time (9"-6"): 6 minutes  
Rate: 2 min/inch

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 9 Date: 01/05/07 Time: 1:20pm Weather P-cloudy 10 F

Location (identify on site plan) See Plan

Land Use Old roadway Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet Drainage way \_\_\_\_\_ Feet

Possible Wet Area \_\_\_\_\_ Feet Property Line \_\_\_\_\_ Feet

Drinking Water Well \_\_\_\_\_ Feet Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-42"	Fill				Silty sand, debris, concrete, brick

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) \_\_\_\_\_ Depth to Bedrock: > 42"

Depth to Groundwater: Standing Water in the Hole: 36" Weeping from Pit Face: \_\_\_\_\_

Estimated Seasonal High Ground Water: 36"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 10 Date: 01/05/07 Time: 1:30pm Weather P-cloudy 10 F

Location (identify on site plan) See Plan

Land Use wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____ Feet	Drainage way	_____ Feet
Possible Wet Area	_____ Feet	Property Line	_____ Feet
Drinking Water Well	_____ Feet	Other	_____

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-65"	Fill				Silty sand, debris, concrete, brick

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) \_\_\_\_\_ Depth to Bedrock: > 65"

Depth to Groundwater: Standing Water in the Hole: 60" Weeping from Pit Face: 58"

Estimated Seasonal High Ground Water: 58"

**Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 11 Date: 01/06/07 Time: 9:00am Weather P-cloudy 10 F

Location (identify on site plan) See Plan

Land Use wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-25"	Fill <sub>1</sub>	FSL	Brwn		Massive, Friable, roots
25"-105"	Fill <sub>2</sub>	FSL	Drk. Brwn		10% cobbles and gravel, some glass and debris @ 100"

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) \_\_\_\_\_ Depth to Bedrock: > 105"

Depth to Groundwater: Standing Water in the Hole: 96" Weeping from Pit Face: 92" (rapid)

Estimated Seasonal High Ground Water: \_\_\_\_\_

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.



Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 12 Date: 01/06/07 Time: 9:00am Weather P-cloudy 10 F

Location (identify on site plan) See Plan

Land Use wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-36"	Fill	FSL	Brwn		Loose, Friable, some stones, asphalt
36"-46"	Ap/Bw	FSL	Drk. Brwn/ Brown		10% cobbles and gravel, some glass and debris @ 100"
46"-64"	C <sub>1</sub>	FSL	5Y5/2	5YR4/6 Distinct >5% @38"	Massive, friable, stratified FSL and Fine Sand, roots throughout, sloughing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) \_\_\_\_\_ Depth to Bedrock: > 64"

Depth to Groundwater: Standing Water in the Hole: 55" Weeping from Pit Face: 50"

Estimated Seasonal High Ground Water: \_\_\_\_\_

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 13 Date: 10/31/07 Time: 11:50am Weather P-Cloudy 45 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	_____

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-4"	A	FSL			Topsoil, Grass, roots
4"-15"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable
15"-68"	C <sub>1</sub>	LS	2.5Y5/3	5YR4/6 Distinct >5% @54"	Massive, friable, some stratified FSL and Fine Sand, roots down to 24", sloughing
68"-108"	C <sub>2</sub>	LS	5Y4/2	7.5YR5/6 >10% throughout	Mass, firm, some smearing
108"-114"	C <sub>3</sub>	SL	5Y4/2	7.5YR5/6 >10% throughout	Mass, firm, smearing, wet, pockets of loam

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 114"

Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: 96"

Estimated Seasonal High Ground Water: 54"

#### **Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

<b>Note:</b> This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.
---

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 14 Date: 10/31/07 Time: 10:45am Weather P-Cloudy 45 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body _____	Feet	Drainage way _____	Feet
Possible Wet Area _____	Feet	Property Line _____	Feet
Drinking Water Well _____	Feet	Other _____	

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8"	A	Forest Mat	10YR3/3		Massive, Friable, roots
8"-19"	B <sub>w</sub>	VFSL	2.5Y4/4		Massive, Friable
19"-87"	C <sub>1</sub>	FLS	2.5Y5/3	5YR4/6 Distinct >5% @75"	Massive, friable, some stratified FSL and Fine Sand, roots down to 24", sloughing
87-112"	C <sub>2</sub>	FLS	5Y4/2	7.5YR5/6 >10% (from excavator bucket)	Mass, firmer than C1, Wet, smearing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 112"

Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/o

Estimated Seasonal High Ground Water: 75"

**Percolation Test:**

**Depth to Perc:** 42"  
**Start Pre-Soak 12":** 11:01  
**End Pre-Soak 12":** 11:16 (18 gals used)  
**Time at 12":** 11:16  
**Time at 9":** 11:18  
**Time at 6":** 11:21  
**Time (9"-6"):** 3 minutes  
**Rate:** < 2 min/inch

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 15 Date: 10/31/07 Time: 1:00pm Weather P-Cloudy 45 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body	_____	Feet	Drainage way	_____	Feet
Possible Wet Area	_____	Feet	Property Line	_____	Feet
Drinking Water Well	_____	Feet	Other	_____	

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-20"	Fill				Massive, Friable, roots
20"-64"	C <sub>1</sub>	FLS	2.5Y5/3	5YR4/6 Distinct >5% @68"	Massive, friable, some stratified FSL and Fine Sand, roots down to 24", sloughing
64"-106"	C <sub>2</sub>	FLS	5Y4/2	7.5YR5/6 >10% (from excavator bucket)	Mass, firmer than C <sub>1</sub> , Wet, smearing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 106"

Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/o

Estimated Seasonal High Ground Water: 68"

#### Percolation Test:

Depth to Perc:

Start Pre-Soak 12":

End Pre-Soak 12":

Time at 12":

Time at 9":

Time at 6":

Time (9"-6"):

Rate:

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### Test Pits

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 16 Date: 10/31/07 Time: 12:50am Weather P-Cloudy 45 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-31"	Fill				Fill over 2" thick macadam layer @ 31"
31"-50"	C <sub>1</sub>	FSL	10YR5/8		Massive, friable, some stratified FSL and Fine Sand, roots down to 24", sloughing
50"-90"	C <sub>2</sub>	LS	5Y4/2	7.5YR5/6 >10% throughout	Mass, firm, some smearing

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 90"

Depth to Groundwater: Standing Water in the Hole: n/o Weeping from Pit Face: n/o

Estimated Seasonal High Ground Water: 50"

#### Percolation Test:

Depth to Perc:

Start Pre-Soak 12":

End Pre-Soak 12":

Time at 12":

Time at 9":

Time at 6":

Time (9"-6"):

Rate:

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.

Location Address or Lot No. Northern Avenue, Northampton, MA

### *Test Pits*

Performed By M.D'Urso, The Berkshire Design Group Witnessed By: \_\_\_\_\_

Deep Hole Number TP 17 Date: 10/31/07 Time: 1:30pm Weather P-Cloudy 45 F

Location (identify on site plan) See Plan

Land Use Wooded Slope (%) See Plan Surface Stones n/o

Vegetation Mixed deciduous and evergreen

Landform \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from: **See Plan**

Open Water Body \_\_\_\_\_ Feet      Drainage way \_\_\_\_\_ Feet  
Possible Wet Area \_\_\_\_\_ Feet      Property Line \_\_\_\_\_ Feet  
Drinking Water Well \_\_\_\_\_ Feet      Other \_\_\_\_\_ Feet

DEEP OBSERVATION HOLE LOG *					
Depth from Surface(Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-46"	Fill	Silty Sand			Few bricks, cobbles, plastic, roots (new growth)
46"-59"	C <sub>1</sub>	LS	2.5Y5/3	5YR4/6 Distinct >10% throughout	Massive, friable, some stratified FSL and Fine Sand, roots down to 24", sloughing
59"-108"	C <sub>2</sub>	SL	5Y4/2	7.5YR5/6 >35% throughout	Massive, firm, some pockets of loam, smearing, wet @ bottom

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) Glaciolacustrine Depth to Bedrock: > 108"

Depth to Groundwater: Standing Water in the Hole: 6" @ 30 minutes Weeping from Pit Face: 95"

Estimated Seasonal High Ground Water: 54"

**Percolation Test:**

**Depth to Perc:**

**Start Pre-Soak 12":**

**End Pre-Soak 12":**

**Time at 12":**

**Time at 9":**

**Time at 6":**

**Time (9"-6"):**

**Rate:**

**Note:** This test pit was performed for investigation of general soil conditions and should not be used for purposes related to Title 5 and/or soil suitability assessments for on-site sewage disposal.



## COLD SPRING ENVIRONMENTAL CONSULTANTS INC.

- 2IE Site Investigations
- Subsurface Investigations
- Pollution Remediation
- LSP on Staff
- Forensic Septic Investigations

- Percolation Tests
- Septic Designs
- Regulatory Compliance
- Recycling and Solid Waste
- Second Opinions

**March 10, 2009**

**Mr. Doug Kohl  
Kohl Construction  
33 Campus Plaza  
Hadley, MA 01035**

**RE: Test Pit & Soil Evaluation Results  
North Street Property, Northampton, MA  
CSEC Reference File #109-3106-0309**

Dear Mr. Kohl:

**Background:**

Cold Spring Environmental, Inc. was contracted to install test pits and perform soil evaluations (to evaluate development/drainage soil characteristics) at the above referenced property. This work, contracted by you, was to attempt to estimate the suitability of soils at the site for drainage, structural interpretation and review the layout of the parcels relative to the above. A Site Locus Map (Figure 1) is attached with your layout. Location map as Attachment I. The approximate test pit locations are pinned on the plot (Figure 2) to be picked up by your surveyor.

**On Site Field Investigation:**

Test Pit locations were excavated by truck mounted back hoe and track mounted mini excavator at the locations your engineer determined on March 9 & 10, 2009.

Soils were generally either typical lower valley A, B horizons over lacustrine (glacial lake bottom), varved Fine sands and silts or filled areas, stripped of A and B horizons, descending directly into the lacustrine varved fine sands and silts. Soil strata are broken detailed on the Test Pit logs attached with noted Estimated Season High Groundwater (ESHGW) elevations from relative surface datum and summarized for the appropriate locations with some select photos in Attachments II and III.

Please feel free to contact us with any questions you may have.

Sincerely,

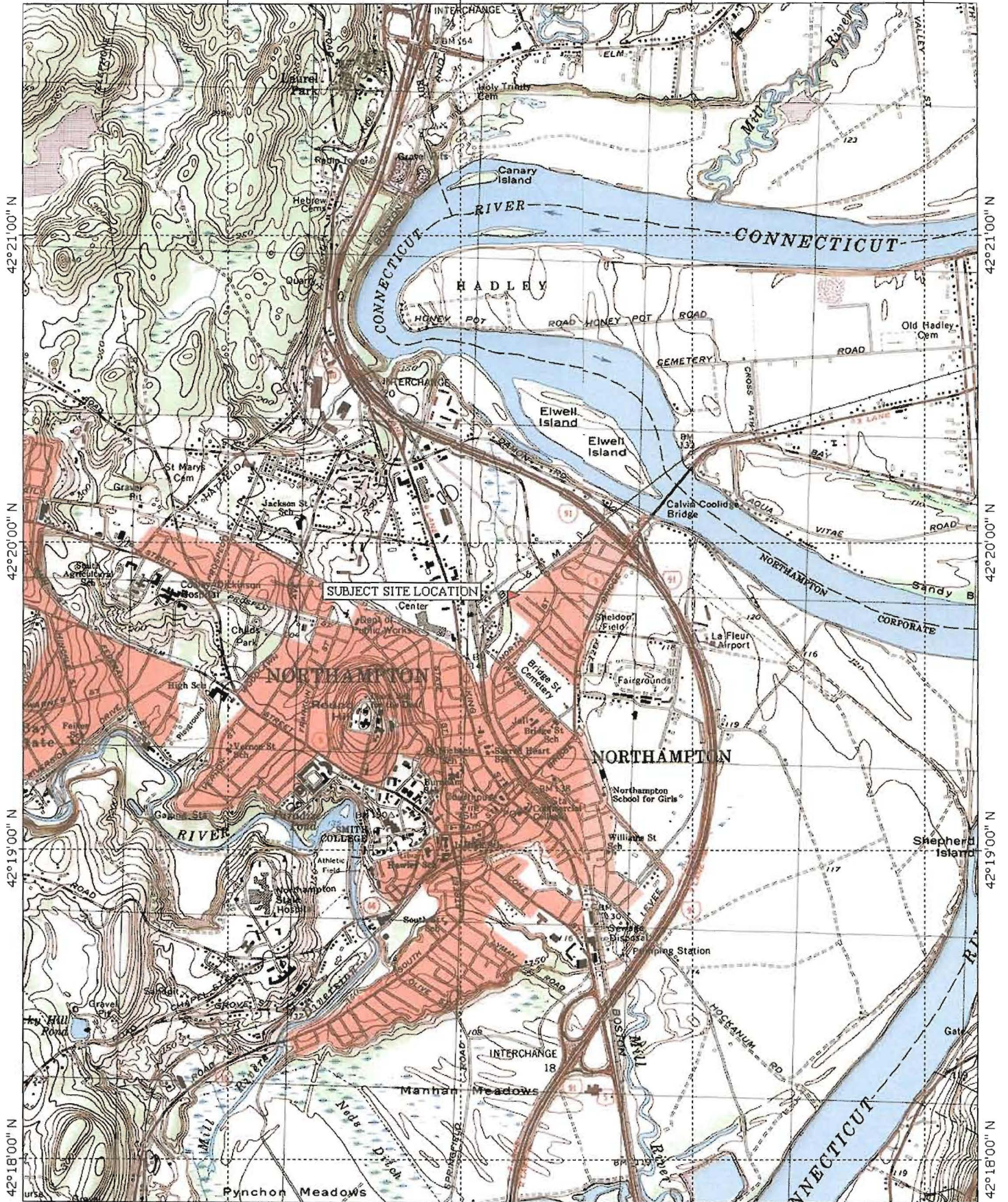
**Cold Spring Environmental Consultants, Inc.**

Alan E. Weiss, M.S.,  
Principal Hydrogeologist  
Licensed Site Professional  
Registered Sanitarian  
MA Soil Evaluator

## **ATTACHMENT I**

Figure 1 Site Locus (USGS), Figure 2: Site Test Pit Plot





42°21'00" N

42°20'00" N

42°19'00" N

42°18'00" N

42°21'00" N

42°20'00" N

42°19'00" N

42°18'00" N

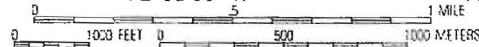
72°39'00" W

72°38'00" W

72°37'00" W

WGS84 72°36'00" W

MN 14 1/2° TN





2

3

4

7

5

6

Fill = 116"

Fill = 30"

8

9

Fill = 92"

Fill = 120"

10

11

**ATTACHMENT II**

Test Pit Logs

**TEST PIT LOGS,**  
**NORTHERN AVE., NORTHAMPTON**  
**03.09&10.2009, AE Weiss, MA Soil Evaluator, MS Hydrogeology**  
**(In order of excavation)**

**Test Pit #:**

<b>#5</b>	0-8"	Af	Sandy Loam 10 yr 2.2	Friable f. sand, fibrous
	8-22"	Bw	Loamy Sand 2.5 y 5.6	F. sand, mod loose & silt
	22-112"	C1	Loamy Sand 2.5y 4.4	F. sand, Little silt, w. sorted Varved, slightly massive

ESHWT = 26" (10% prominent, 2.5y 4.1&7.5 yr 5.8) Weeping=45"-48"

<b>#6</b>	0-7"	Af	Sandy Loam 10 yr 2.2	Friable f. sand, fibrous
	7-20"	Bw	Loamy Sand 2.5 y 5.6	F. sand, mod loose & silt
	20-116"	C1	Loamy Sand 2.5y 4.4	F. sand, Little silt, w. sorted Varved, slightly massive

ESHWT = 26" (10% strong, 2.5y 4.1&7.5 yr 5.8) Weeping=45"-48"

<b>#7</b>	0-6"	Af	Sandy Loam 10 yr 2.2	Friable f. sand, fibrous
<b>Photo</b>	6-20"	Bw	Loamy Sand 2.5 y 5.6	F. sand, mod loose & silt
	20-110"	C1	Loamy Sand 2.5y 4.4	F. sand, Little silt, w. sorted Varved, slightly massive
	110-120"	C2	C. Sand 2.5y 4.6	C. Sand, lense, well sorted.

ESHWT = 26" (>10% strong, 2.5y 4.1&7.5 yr 5.8) Weeping=30"

<b>#4</b>	0-4"	A	Fine Sandy Loam 10 yr 2.2	Friable f. sand, fibrous
	4-14"	Bw	Loamy Sand 2.5 y 5.6	F. sand, mod loose & silt
	14-60+"	C1	Loamy Sand 2.5y 4.3	F. sand, little silt, varved slightly massive

ESHWT =14-16" (>10% strong, 2.5y 4.1&7.5 yr 5.8) Weeping=30"

<b>#3</b>	0-16"	A	Fine Sandy Loam 10 yr 2.2	Moist, fibrous
<b>photo</b>	16-29"	Bw	Loamy Sand 2.5 y 4.3	F. sand, & silt, massive
	29-100"	Cg	Silt Loam 5Gy 5.1	Silt, Little Clay Varved, massive

ESHWT = 16" (>10% strong, 5Gy 5.1& 7.5 yr 5.8) Weeping=30"

<u>#1</u>	0-10	A	Fine Sandy Loam 10 yr 2.2	Moist f. sandy, fibrous
	10-16"	Bw	Loamy Sand 2.5 y 4.3	F. sand, & silt
	16-40"	Cl	Loamy Sand 2.5y 4.4	F. sand & silt, Varved, massive
	40-80"	Cg	Fine Silt Loam 5Gy 5.1	Silt, Massive.Varved
<i>ESHWT = 16" (&gt;10%,strong.5Gy5.1 &amp; 7.5 yr 5.8) Weeping=30"</i>				
<u>#9</u>	0-90"	Af	Fill, sandy, Loose	Mixed gravel, brick asphalt
	90"-100"	Cg	Fine Silt Loam 5Gy 5.1	Silt, Massive.Varved
<i>ESHWT =86" (strong, 5 Gy 4.1&amp; 7.5 yr 5.8) Weeping=90"</i>				
<u>#8</u>	0-24"	Af	Fill, sandy, Loose	Mixed gravel, brick asphalt
	24"-106"	Cg	L. Sand 5Gy 5.1	F. Sand, trace Silt, Varved
<i>ESHWT =36" (strong,2.5 y .4.2&amp; 7.5 yr 5.8) Weeping=90"</i>				
<u>#11</u>	0-142"	Af	Fill, Loose, caving	Mixed gravel, brick asphalt
	142"+	Cg	Fine Silt Loam 5Gy 5.1	Silt, Massive.Varved
<i>ESHWT =86",. Weeping=90"</i>				
<u>#10</u>	0-70"	Af	Fill, loose caving	Mixed gravel, brick asphalt
photo	70"-110"	Cl	L. Sand 2.4 y 3.2	F. Sand, Well Sorted Varved
<i>ESHWT =36" (strong, 5 Gy 4.1&amp; 7.5 yr 5.8) Weeping=48"</i>				
<u>#2</u>	0-10	A	Fine Sandy Loam 10 yr 2.2	Moist f. sandy, fibrous
	10-14"	Bw	Loamy Sand 2.5 y 4.3	F. sand, & silt
	16-40"	Cl	Loamy Sand 2.5y 4.1	F. sand & Little silt, Varved Somewhat massive
<i>ESHWT =14-16" (10% prominent, 2.5 y 4.1&amp; 7.5 yr 5.8) Weeping=30"</i>				

**ATTACHMENT III**

Excavation Photos



Test Pit #7  
march 9, 2009  
North street  
Northampton, MA



Test Pit #3  
march 9, 2009  
North street  
Northampton, MA