

**Southeastern Environmental Consulting Inc.**  
Spence Williams 10411 Marion Martin Rd., Marysville IN 47141  
(812)889-3524 Toll Free 1(877)556-1557

**Soil Evaluation for On-Site Sewage Disposal System**

**Project title:** Tract 4, Bob Shine Property

**By:**

**Date of Evaluation:**

**Client Information**

**Location**

**Name:** IU Foundation, Patrick McAleer

**County:**

**Floyd**

**Address:** Showalter House

**Legal Description:** T. 2S, R. 6E, Sec. 16

P.O. Box 500

**Site Location**

.2 mi. SW of Skyline Dr. On

Bloomington IN 47402

Spickert Knob Rd., south

side of road

**Telephone #**

**Mobile:** (812)327-6135

**Office:** (812)865-0204

**e-mail:**

**Lafayette Township**

**Site Information**

**Landscape Position:** Upland

**Flooding?**

**none**

**Proposed use** 3 BR Home site

**Present land use:** Idle, Grassy lot/Woods

**Disturbed Site?**

**No**

**Similar Soil:**

**Gilwood**

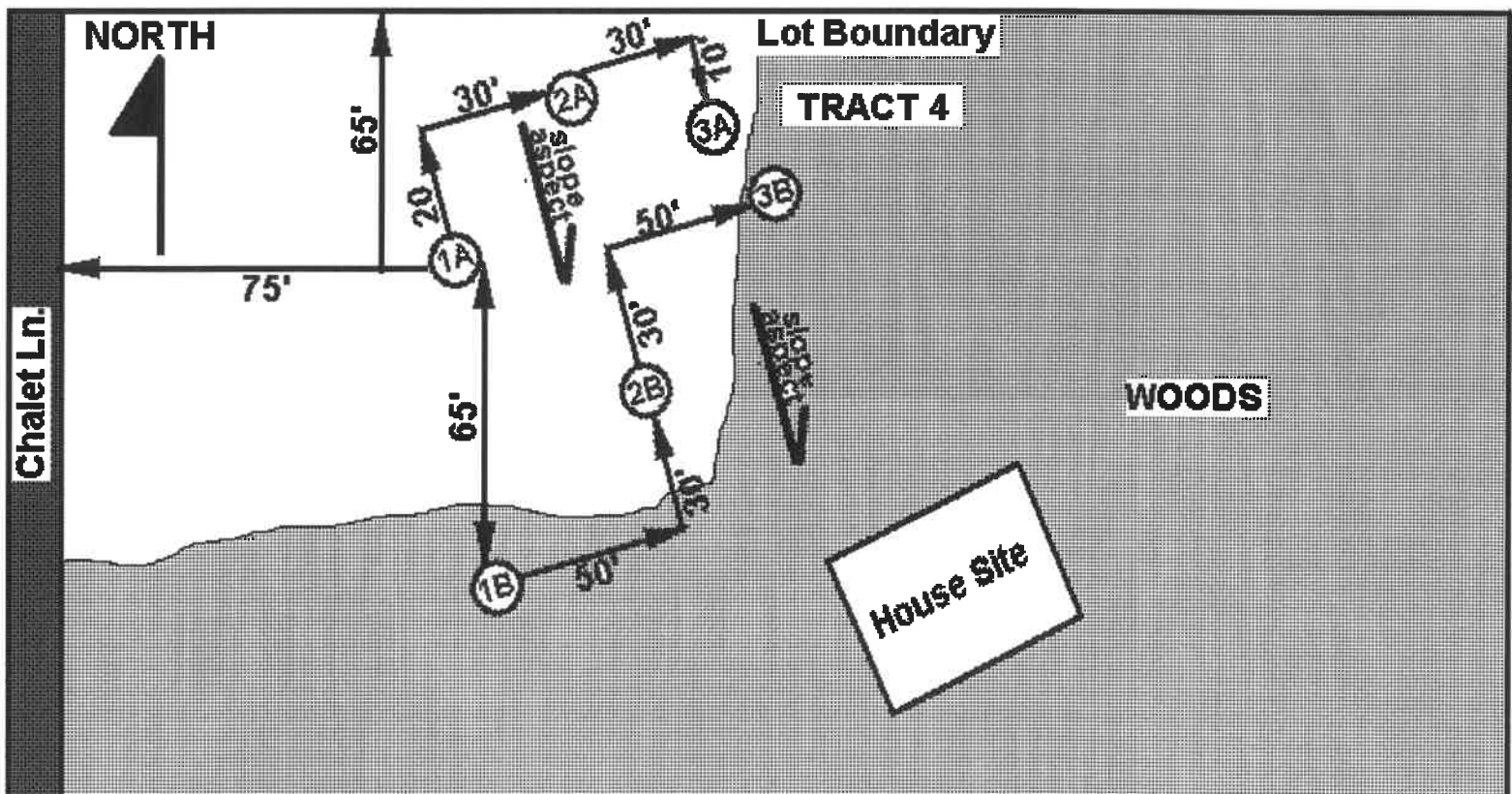
**Subsurface**

**Available Southwest of sites**

**Water source:**

**Rural Water**

**Drain outlet?**



**DETAILED SOIL ANALYSIS FOR: IU Foundation, Tract 4, Bob Shine Prop.**

**Soil Sample #1A**

| Depth | Horizon | Texture | Color    |          |          | Structure |          | Consistency | Coarse Fragments | Parent Material |
|-------|---------|---------|----------|----------|----------|-----------|----------|-------------|------------------|-----------------|
|       |         |         | Matrix   | Mottles  | Coatings | Grade     | Shape    |             |                  |                 |
| 0-3   | Ap      | SiL     | 10YR 3/3 |          |          | Moderate  | Granular | friable     |                  | Loess           |
| 3-11  | BE      | SiL     | 10YR 6/4 |          |          | Weak      | SBK      | friable     |                  |                 |
| 11-25 | 2Bt1    | SiL     | 10YR 5/4 | 10YR 6/3 |          | Moderate  | SBK      | friable     |                  | Siltstone       |
| 25-33 | 2Bt2    | SiCL    | 10YR 6/8 | 10YR 6/1 |          | Moderate  | SBK      | firm        |                  | Residuum        |
| 33-38 | 2Btg    | SiCL    | 10YR 5/2 | 10YR 6/8 |          | Weak      | SBK      | firm        |                  |                 |
| >38   | 2Cr     | Bedrock |          |          |          |           |          |             |                  |                 |
|       |         |         |          |          |          |           |          |             |                  |                 |

\*\*\*Soil color patterns in all profiles are similar to color patterns present in Soil Sample #1 unless indicated in profile description.

**Soil Sample #2A**

| Depth | Horizon | Texture | Color  |         |          | Structure |          | Consistency | Coarse Fragments | Parent Material |
|-------|---------|---------|--------|---------|----------|-----------|----------|-------------|------------------|-----------------|
|       |         |         | Matrix | Mottles | Coatings | Grade     | Shape    |             |                  |                 |
| 0-5   |         | SiL     |        |         |          | Moderate  | Granular | friable     |                  | Loess           |
| 5-11  |         | SiL     |        |         |          | Weak      | SBK      | friable     |                  |                 |
| 11-26 |         | SiCL    |        |         |          | Moderate  | SBK      | firm        |                  | Siltstone       |
| 26-32 |         | SiL     |        |         |          | Moderate  | SBK      | friable     |                  | Residuum        |
| 32-39 |         | SiL     |        |         |          |           | Massive  | friable     |                  |                 |
| >39   |         | Bedrock |        |         |          |           |          |             |                  |                 |
|       |         |         |        |         |          |           |          |             |                  |                 |

**Soil Sample #3A**

| Depth | Horizon | Texture | Color  |         |          | Structure |          | Consistency | Coarse Fragments | Parent Material |
|-------|---------|---------|--------|---------|----------|-----------|----------|-------------|------------------|-----------------|
|       |         |         | Matrix | Mottles | Coatings | Grade     | Shape    |             |                  |                 |
| 0-5   |         | SiL     |        |         |          | Moderate  | Granular | friable     |                  | Loess           |
| 5-23  |         | SiL     |        |         |          | Moderate  | SBK      | friable     |                  |                 |
| 23-31 |         | SiCL    |        |         |          | Moderate  | SBK      | firm        |                  | Siltstone       |
| 31-35 |         | SiCL    |        |         |          | Weak      | SBK      | firm        |                  | Residuum        |
| >35   |         | Bedrock |        |         |          |           | Massive  | friable     |                  |                 |
|       |         |         |        |         |          |           |          |             |                  |                 |
|       |         |         |        |         |          |           |          |             |                  |                 |

**Summary of possible site/soil limitations**

| Sample | Slope | Slope Type | Watertable | Limiting Layer | Depth |
|--------|-------|------------|------------|----------------|-------|
| 1A     | 3-5%  | Shoulder   | 25"        | Bedrock        | 38"   |
| 2A     | 3-5%  | Shoulder   | 26"        | Bedrock        | 39"   |
| 3A     | 3-5%  | Shoulder   | 23"        | Bedrock        | 35"   |

**COMMENTS:**

**DETAILED SOIL ANALYSIS FOR: IU Foundation, Tract 4, Bob Shine Prop.**

**Soil Sample #1B**

| Depth | Horizon | Texture | Color    |          |          | Structure |          | Consistency | Coarse Fragments | Parent Material |
|-------|---------|---------|----------|----------|----------|-----------|----------|-------------|------------------|-----------------|
|       |         |         | Matrix   | Mottles  | Coatings | Grade     | Shape    |             |                  |                 |
| 0-8   | Ap      | SiL     | 10YR 4/3 |          |          | Moderate  | Granular | friable     |                  | Loess           |
| 8-15  | BE      | SiL     | 10YR 5/4 |          |          | Weak      | SBK      | friable     |                  |                 |
| 15-26 | 2Bt1    | SiL     | 10YR 6/4 |          |          | Moderate  | SBK      | friable     |                  | Siltstone       |
| 26-33 | 2Bt2    | SiCL    | 10YR 6/4 | 10YR 6/2 |          | Moderate  | SBK      | firm        |                  | Residuum        |
| 33-41 | 2BC     | SiL     | 10YR 6/8 | 10YR 6/1 |          |           | Massive  | friable     |                  |                 |
| >41   | 2Cr     | Bedrock |          |          |          |           |          |             |                  |                 |
|       |         |         |          |          |          |           |          |             |                  |                 |

\*\*\*Soil color patterns in all profiles are similar to color patterns present in Soil Sample #1 unless indicated in profile description.

**Soil Sample #2B**

| Depth | Horizon | Texture | Color  |         |          | Structure |          | Consistency | Coarse Fragments | Parent Material |
|-------|---------|---------|--------|---------|----------|-----------|----------|-------------|------------------|-----------------|
|       |         |         | Matrix | Mottles | Coatings | Grade     | Shape    |             |                  |                 |
| 0-5   |         | SIL     |        |         |          | Moderate  | Granular | friable     |                  | Loess           |
| 5-14  |         | SIL     |        |         |          | Moderate  | SBK      | friable     |                  |                 |
| 14-23 |         | SiCL    |        |         |          | Moderate  | SBK      | firm        |                  | Siltstone       |
| 23-28 |         | SiL     |        |         |          | Weak      | SBK      | friable     |                  | Residuum        |
| 28-35 |         | SiL     |        |         |          |           | Massive  | friable     |                  |                 |
| >35   |         | Bedrock |        |         |          |           |          |             |                  |                 |
|       |         |         |        |         |          |           |          |             |                  |                 |

**Soil Sample #3B**

| Depth | Horizon | Texture | Color  |         |          | Structure |          | Consistency | Coarse Fragments | Parent Material |
|-------|---------|---------|--------|---------|----------|-----------|----------|-------------|------------------|-----------------|
|       |         |         | Matrix | Mottles | Coatings | Grade     | Shape    |             |                  |                 |
| 0-3   |         | SIL     |        |         |          | Moderate  | Granular | friable     |                  | Loess           |
| 3-15  |         | SIL     |        |         |          | Weak      | SBK      | friable     |                  |                 |
| 15-27 |         | SiL     |        |         |          | Moderate  | SBK      | friable     |                  | Siltstone       |
| 27-34 |         | SiL     |        |         |          |           | Massive  | friable     |                  | Residuum        |
| >34   |         | Bedrock |        |         |          |           |          |             |                  |                 |
|       |         |         |        |         |          |           |          |             |                  |                 |
|       |         |         |        |         |          |           |          |             |                  |                 |

**Summary of possible site/soil limitatons**

| Sample | Slope | Slope Type | Watertable | Limiting Layer | Depth |
|--------|-------|------------|------------|----------------|-------|
| 1B     | 3-5%  | Shoulder   | 27"        | Bedrock        | 41"   |
| 2B     | 3-5%  | Shoulder   | 23"        | Bedrock        | 35"   |
| 3B     | 3-5%  | Shoulder   | 26"        | Bedrock        | 34"   |

**COMMENTS:**