<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0-4.4</td>
<td>22 inches of ASPHALTIC CEMENT CONCRETE</td>
</tr>
<tr>
<td>5.6-11.7</td>
<td>5 inches of 1&quot; stone, tight gravel, brown, w/w (S55)</td>
</tr>
<tr>
<td>12.0-75.0</td>
<td>Field measurements</td>
</tr>
</tbody>
</table>

End of Boring at 10 ft.

**BORING COORDINATES**

- Drilling Company: Sholes Drilling
- Field Force: J. Luikens
- Boring Method: 2 Univ. SPM
- Hammer Type: Automatic
- Bored with: Cutting/Points
- Date Started: 08/05/06
- Date Completed: 08/31/06
- Checked By: J. S. Sebby

**Somat Engineering Inc.**

Detroit River International Crossing

Proposed Plaza Area Boring

Detroit, MI

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**GROUNDWATER READINGS**

- First Encounter: None
- Drawdown: None
- Remarks: None

---

**GROUNDWATER READINGS**

- First Encounter: None
- Drawdown: None
- Remarks: None

---

**GROUNDWATER READINGS**

Date Started: 08/05/06
Date Completed: 08/31/06
Checked By: J. S. Sebby

**Somat Engineering Inc.**

Detroit River International Crossing

Proposed Plaza Area Boring

Detroit, MI
### Appendix F: Geotechnical

#### Boring Report for Detroit River International Crossing

**Project No.: 050692A**
- **Date:** 8/25/2006
- **Log of Test Boring:** B-70, B-71

| BORING COORDINATES | Drilling Company: Shobe Drilling
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dated Rig: 25</td>
</tr>
<tr>
<td></td>
<td>Engineer on Rig: J. Lukasik</td>
</tr>
<tr>
<td></td>
<td>Method: Vertical</td>
</tr>
<tr>
<td>END OF BORING</td>
<td></td>
</tr>
</tbody>
</table>

#### Field Data

**Log of Test Boring B-70**

<table>
<thead>
<tr>
<th>SAMPLE NO.</th>
<th>DEPTH (FT)</th>
<th>SAMPLE WEIGHT (LB)</th>
<th>CONCENTRATION (%)</th>
<th>DENSED CONSISTENCY</th>
<th>DRY DENSITY (lb/ft³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8501</td>
<td>10-80</td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8502</td>
<td>5-60</td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- F11: Medium dense to dense sandy loam, fine sand and gravel, some cobbles (50%)
- End of Boring at 10 ft.

**Laboratory Data**

- Soil Sample Analysis
- Density Testing
- Moisture Content

**Groundwater Reactions**

- First Encounter: None
- Upon Completion: None

---

**Log of Test Boring B-71**

<table>
<thead>
<tr>
<th>SAMPLE NO.</th>
<th>DEPTH (FT)</th>
<th>SAMPLE WEIGHT (LB)</th>
<th>CONCENTRATION (%)</th>
<th>DENSED CONSISTENCY</th>
<th>DRY DENSITY (lb/ft³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5501</td>
<td>6-60</td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5502</td>
<td>3-50</td>
<td>2.5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- F11: Loose fine sand, trace alluvial gravel, light brown, moist (SPT)
- End of Boring at 5 ft. Boring line terminated as an apparent obstruction

---

**Somat Engineering Inc.**

**Detroit River International Crossing**

**Project:** Proposed Plaza Area Boring

**Detroit, MI**
## Appendix F: Geotechnical

**Detroit River International Crossing**

**Conceptual Engineering Report**

**PROJECT NO.** C050202A  **DATE** 5/17/2007  **LOG OF TEST BORING** B-102

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SOIL PROFILE</th>
<th>FIELD DATA</th>
<th>LABORATORY DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td><strong>Soft Muck</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.00</td>
<td><strong>Clayey Sand</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.50</td>
<td><strong>Sand</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.00</td>
<td><strong>Silt</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.00</td>
<td><strong>Clay</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

End of Boring at 10 ft.

**BORING COORDINATES**

Drilling Company: Shobe Drilling
Driller: D. C. D.
Engineer on Rig: R. A.
Drilling Method: 2 In. cast-in-place

**GROUNDWATER READING**

First Encountered at 4.0 ft
Upon Completion at 3.0 ft

**Somat Engineering Inc.**

Detroit River International Crossing

Proposed Plaza Area Borings

Detroit, Michigan

---

**PROJECT NO.** C050202A  **DATE** 5/17/2007  **LOG OF TEST BORING** B-103

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SOIL PROFILE</th>
<th>FIELD DATA</th>
<th>LABORATORY DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td><strong>Soft Muck</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.00</td>
<td><strong>Clayey Sand</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.50</td>
<td><strong>Sand</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.00</td>
<td><strong>Silt</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.00</td>
<td><strong>Clay</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

End of Boring at 10 ft.

**BORING COORDINATES**

Drilling Company: Shobe Drilling
Driller: D. C. D.
Engineer on Rig: R. A.
Drilling Method: 2 In. cast-in-place

**GROUNDWATER READING**

First Encountered at 4.0 ft
Upon Completion at 3.0 ft

**Somat Engineering Inc.**

Detroit River International Crossing

Proposed Plaza Area Borings

Detroit, Michigan

---

**Page F-24**
### Detroit River International Crossing

**Conceptual Engineering Report**

**Appendix F: Geotechnical**

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**PROJECT NO. C05002A**

**DATE: 5/17/2007**

**LOG OF TEST BORING B-104**

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>3.5</th>
<th>5.5</th>
<th>7.5</th>
<th>9.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL TYPE</td>
<td>FILL - Mixed sandy sand and gravel, black, brown, mixed (SPG)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DENSITY (PSF)</td>
<td>120</td>
<td>110</td>
<td>100</td>
<td>90</td>
</tr>
</tbody>
</table>

**BORING COORDINATES**

Drilling Company: Strata Drilling

**GROUNDWATER READINGS**

- First Encounter: none
- Last Encounter: none

**Somat Engineering Inc.**

Detroit River International Crossing

Project: Proposed Plaza Area Borings

Detroit, Michigan

---

**PROJECT NO. C05002A**

**DATE: 5/17/2007**

**LOG OF TEST BORING B-105**

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>4.5</th>
<th>6.5</th>
<th>8.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOIL TYPE</td>
<td>FILL - Mixed silt and gravel, brown, mixed (SPG)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DENSITY (PSF)</td>
<td>150</td>
<td>140</td>
<td>130</td>
</tr>
</tbody>
</table>

**BORING COORDINATES**

Drilling Company: Strata Drilling

**GROUNDWATER READINGS**

- First Encounter: none
- Last Encounter: none

**Somat Engineering Inc.**

Detroit River International Crossing

Project: Proposed Plaza Area Borings

Detroit, Michigan

---

**End of Boring at 10 ft.**

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**End of Boring at 15 ft.**

---

**End of Boring at 20 ft.**

---

**End of Boring at 25 ft.**

---

**End of Boring at 30 ft.**

---

**End of Boring at 35 ft.**

---

**End of Boring at 40 ft.**

---

**End of Boring at 45 ft.**

---

**End of Boring at 50 ft.**