APPENDIX I

The following site data forms are designated as "open sites; not sampled." The sites described herein are depicted on the county materials map as a "O".

LEGEND

This symbol on the site data form represents an open site.

This symbol on the site data form represents an area of possible pit expansion.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 20-1 DATE Nov, 1961

MATERIAL Sand and Gravel
COUNTY Summer

LOCATION Sec 19 TWP 33S RANGE 1W

OWNER Joe Baker 0/o Kenneth Baker Rt. 3 Caldwell, Kan.

RENTAL

NATURE OF DEPOSIT Dry
ACCESSIBILITY Good

STATUS OF SITE Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Material</th>
<th>Depth</th>
<th>Depth of</th>
<th>15%</th>
<th>25%</th>
<th>40%</th>
<th>60%</th>
<th>80%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

CORRELATION DATA

 GEOLOGICAL AGE Pleistocene  GEOLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS:

__________________________________________

__________________________________________

__________________________________________

__________________________________________

__________________________________________
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 1054444 DATE May, 1964

MATERIAL Sand and Gravel COUNTY Sumner

LOCATION SURF Sec 19 TWP 31S RANGE 14E


NATURE OF DEPOSIT Dry ACCESSIBILITY Good

STATUS OF SITE Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Site</th>
<th>Bedrock at Botton of Test</th>
<th>Depth of Overburden</th>
<th>Depth of Water</th>
<th>Percent Retained</th>
<th>H</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
<th>50</th>
<th>40</th>
<th>30</th>
<th>20</th>
<th>10</th>
<th>0</th>
</tr>
</thead>
</table>

Correlation Data

GEOLOGICAL AGE Pleistocene GEOLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS

-
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO.  50-3

DATE May, 1964

MATERIAL Sand and Gravel

COUNTY Sumner

LOCATION 542

SEC. 13

TWR. 30S

RANGE 1W

OWNER Jenny Smith

2177 # Riverside Blvd., Wichita, Kansas

ADDRESS

TENANT

NATURE OF DEPOSIT Dry

ACCESSIBILITY Good

STATUS OF SITE Open site; not sampled

EXPLOSION DATA

| Test Data | Material Survey of Data | Depth of Material | Depth of Mould | Period (Min) | 15  | 30  | 45  | 60  | 90  | 120 | 180 | 240 | 300 | 450 | 600 | 1110 | 1110 |
|-----------|-------------------------|-------------------|---------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

CORRELATION DATA

GEOLICAL AGE Pleistocene

GEOLICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS:

Scale: 1" = ¹/₂ Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 51-1
DATE May 14, 1964

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: 51-1
SEC. 27
TWP. 31 S
RANGE 2 W

OWNER: C. B. Castor

TENANT: U.H.

NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good

STATUS OF SITE: Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material</th>
<th>Depth of Material</th>
<th>Depth of Gravel</th>
<th>Per cent Gravel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLICAL AGE: Pleistocene

MATERIAL SIMILAR TO: High terrace

REMARKS:

---

Scale: 1" = 1/2 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 30-6 DATE May, 1964

MATERIAL Sand and Gravel COUNTY Sumner

LOCATION Sec. 1 TWP. 32S RANGE 4W

OWNER Ed. SM, Robert Schmidt CALDWELL, KANSAS

TENANT

NATURE OF DEPOSIT Dry ACCESSIBILITY Good

STATUS OF SITE Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Surface</th>
<th>Depth of</th>
<th>Percent</th>
<th>1/2</th>
<th>1/4</th>
<th>1/8</th>
<th>1/16</th>
<th>1/32</th>
<th>1/64</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLICAL AGE Pleistocene GEOLICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS:


Scale: 1" = 1/2 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. S0-8 Qua. DATE May, 1964

MATERIAL: Sand and Gravel COUNTY: Sumner

LOCATION: " " SEC. 3 TWP. 35S RANGE 1W

OWNER: V. S. Hollingsworth South Haven, Kansas

NATURE OF DEPOSIT: Dry ACCESSIBILITY: Good

STATUS OF SITE: Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Grade</th>
<th>Depth of Material</th>
<th>Depth of Material</th>
<th>Percent Rejected</th>
<th>Unit Cost</th>
<th>P.E.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Grade</th>
<th>Depth of Material</th>
<th>Depth of Material</th>
<th>Percent Rejected</th>
<th>Unit Cost</th>
<th>P.E.</th>
</tr>
</thead>
</table>

CORRELATION DATA

GEOLOGICAL AGE: Pleistocene GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO

REMARKS:

Scale: 1" = 1 MIl.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50+9  DATE  MAY, 1964
MAT: Sand and Gravel  COUNTY: Sumner
LOCATION  NE 3  SEC. 10  TWP 95s  RANGE 1W
OWNER  Harold F. Crou  South Haven, Kansas
TENANT  None  ACCESSIBILITY  Good
NATURE OF DEPOSIT  Dry  STATUS OF SITE  Open site; not sampled

<table>
<thead>
<tr>
<th>Text Sample</th>
<th>Material Present</th>
<th>Depth of Deposit</th>
<th>Depth of Boring</th>
<th>Percent Ranged</th>
<th>Scale</th>
<th>FL</th>
</tr>
</thead>
</table>

EXPLORATION DATA

CORRELATION DATA
GEOL. AGE  Pleistocene  SOURCE  High terrace
MATERIAL  SIMILAR TO

REMARKS:  

---

[Map of site with labeled features such as Farm Site, Road, and Scale: 1" = 1/2 Mile]

---
STATE HIGHWAY COMMISSION OF KANSAS  
MATERIAL SURVEY REPORT

SITE NO. 30-11-16  
DATE May, 1962

MATERIAL: Sand and Gravel  
COUNTY: Harvey

LOCATION:  
SEC. 17  
TWP. 30S  
RANGE 3W

OWNER: John Liddy  
Conway Springs, Kansas

TENANT:  
Address:  

NATURE OF DEPOSIT: Dry  
ACCESSIBILITY: Good

STATUS OF SITE: Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Depth of Drilling</th>
<th>Depth of Section</th>
<th>Percentage</th>
<th>1%</th>
<th>5%</th>
<th>10%</th>
<th>30%</th>
<th>50%</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE: Pliocene  
GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO:  

REMARKS: The Mississippian shale which is overlain by approximately 2 feet of Kansas or Illinoian terrace deposits is being excavated at this site. This material is unsuitable for any kind except surfacing material on low volume traffic roads.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE no. 80-32
DATE May, 1968

MATERIAL Sand and Gravel
COUNTY Sumner

LOCATION SE 1/4 sec. 26 TWP. 35S RANGE 11W


TENANT none

NATURE OF DEPOSIT Dry
ACCESSIBILITY Good

STATUS OF SITE Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Depth of Drill</th>
<th>Depth of Water</th>
<th>Depth of Hole</th>
<th>Percent Water</th>
<th>Percent Gravel</th>
<th>Percent Sand</th>
<th>Percent Silt</th>
<th>Percent Clay</th>
<th>Percent Rock</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE Pleistocene GEOLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS:

[Map showing location with road and farm site indicated]
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 32-13
DATE May, 1964

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: NW 1/4
SEC. 12
TWP. 33 S
RANGE 3W

OWNER: Robert T. Hare
ADDRESS: Conway Springs, Kansas

TENANT: R.T. Hare
ACCESSIBILITY: Good

NATURE OF DEPOSIT: Open site; not sampled
STATUS OF SITE: Open site; not sampled

EXPLANATION DATA

<table>
<thead>
<tr>
<th>Test Run</th>
<th>Material of</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Percent Remaining</th>
<th>Vicinity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Deposit</td>
<td>Corrodes</td>
<td>Deposit</td>
<td></td>
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</tr>
</tbody>
</table>

CREDENETIAL DATA

GEOLOGICAL AGE: Pleistocene
GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO:

REMARKS: Material taken from this pit is from the Kansas or Illinoisan terrace deposits and the underlying Wellington Shale formation. It is unsuitable for use other than surfacing material for township roads.

Scale: 1" = 1/2 Miles
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 36-1h Qd DATE May, 1964

MATERIAL Sand and Gravel COUNTY Greenwood

LOCATION NE ¼ SEC. 11 TWP 33S RANGE 3E

OWNER James W. Porter Mayfield, Kansas

TENANT

NATURE OF DEPOSIT Dry ACCESSIBILITY Good

STATUS OF SITE Open site, not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Accurint of Bottom of Hole</th>
<th>Depth of Layers</th>
<th>Depth of Layers</th>
<th>Depth of Layers</th>
<th>Depth of Layers</th>
<th>Pene of Pedestal</th>
<th>Pene of Pedestal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
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<td>1/4</td>
<td>1/4</td>
<td>1/4</td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLICAL AGE Pleistocene GEOLOGICAL SOURCE High terrace
MATERIAL SIMILAR TO

REMARKS:

---

Scale: 1" = 1/2 Mile
## STATE HIGHWAY COMMISSION OF KANSAS
### MATERIAL SURVEY REPORT

<table>
<thead>
<tr>
<th>Site No.</th>
<th>DATE</th>
<th>Material</th>
<th>County</th>
<th>Location</th>
<th>Owner</th>
<th>Tenant</th>
<th>Nature of Deposit</th>
<th>Accessibility</th>
<th>Status of Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-17</td>
<td>May 1967</td>
<td>Sand and Gravel</td>
<td>Sumner</td>
<td>Sec 9, Twp 32S, Range 1W</td>
<td>Harry Q. Zech</td>
<td></td>
<td>Dry</td>
<td>Good</td>
<td>Open site; not sampled</td>
</tr>
</tbody>
</table>

### EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Material of Grading</th>
<th>Depth of Deposit</th>
<th>Percent Attested</th>
<th>Percent Runoff</th>
<th>Drained</th>
<th>Undrained</th>
<th>LL</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### CORRELATION DATA

Geological Age: Pleistocene  
Geological Source: High terrace  
Material Similar To:  

Remarks:

---

[Scale: 1" = ½ Mile]
SITE NO: 201
DATE: May 1964
MATERIAL: Sand and Gravel
COUNTY: Bourbon
LOCATION: 26T
OWNER: Irl Shore
TENANT: Address
NATURE OF DEPOSIT: Bed
ACCESSIBILITY: Good
STATUS OF SITE: Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Depth of</th>
<th>Material at Depth</th>
<th>Material Description</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Percent</th>
<th>Percent</th>
<th>L.L.</th>
<th>R.I.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft</td>
<td>Over 100</td>
<td>0-100</td>
<td>lb</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLICAL AGE: Recent
GEOLICAL SOURCE: Flood Plain
MATERIAL SIMILAR TO:

REMARKS:

STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50-20 DATE May, 1958
MATERIAL Sand and Gravel COUNTY Summer
LOCATION NE1 SEC. 16 TWP. 13S RANGE 2W
OWNER Max Blum Land 118 W. Popular Wellington, Kansas
TENANT Not sampled
NATURE OF DEPOSIT Dry ACCESSIBILITY Good
STATUS OF SITE Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material</th>
<th>Depth of Materials</th>
<th>Depth of Site</th>
<th>Percent Montana</th>
<th>Percent Portland</th>
<th>Relative Density</th>
<th>Atterberg Limits</th>
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<td></td>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE Pleistocene GEOLOGICAL SOURCE High terrace
MATERIAL SIMILAR TO

REMARKS:

Scaler: 1" = 1/2 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO.

DATE
May, 196-

MATERIAL.
Sand and Gravel

COUNTY
Sumner

LOCATION
56-1
SEC.
18
TWP.
35S
RANGE
1E

OWNER
W. D. Brown

RUNNEMOOR, Kansas

TENANT

ADDRESS

NATURE OF DEPOSIT
Dry

ACCESSIBILITY
Good

STATUS OF SITE
Open site; not sampled

EXPLORATION DATA

| Soil | Material at Bottom of Hole | Depth of Exploration | Depth of Drill | % | \(\%\) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|------|---------------------------|---------------------|----------------|---|------|---|---|---|---|---|---|---|---|---|---|

CORELATION DATA

GEOLOGICAL AGE
Pleistocene

GEOLOGICAL SOURCE
High terrace

MATERIAL SIMILAR TO

REMAGKS:


STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 30+22 Y41  DATE May, 1968
MATERIAL Sand and Gravel  COUNTY: Sumner
LOCATION NW1  SEC. 3  TWP. 31S  RANG. 12E
OWNER W. Wright  LOT S. 5th, Salina, New Mexico
TENANT  NATURE OF DEPOSIT Wet  ACCESSIBILITY Good
STATUS OF SITE: Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom</th>
<th>Depth From Surface</th>
<th>Depth of Material</th>
<th>Half Micron</th>
<th>4</th>
<th>8</th>
<th>16</th>
<th>32</th>
<th>64</th>
<th>128</th>
<th>256</th>
<th>512</th>
<th>1024</th>
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<tr>
<td>1</td>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE Recent  GEOLOGICAL SOURCE Flood Plain
MATERIAL SIMILAR TO

REMARKS:
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50-28
Gal.

DATE May, 1961

MATERIAL Sand and Gravel

COUNTY Sumner

LOCATION

SEC.

WT. 7

TWP. 30S

RANGE 2E

OWNER George Y. Blair

1750 Sunrayt Drive, Riverside Calif.

TELEPHONE

NATURE OF DEPOSIT Not

ACCESSIBILITY Good

STATUS OF SITE Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Hole</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Percent</th>
<th>Grain Size</th>
<th>PI</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Bottom 15 ft.</td>
<td>Bottom 30 ft.</td>
<td>of Core</td>
<td>at Hole</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE Recent

GEOLOGICAL SOURCE Flood Plain

MATERIAL SIMILAR TO

REMARKS:

Scaler: 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50425 DATE May, 1961
MATERIAL: Earth and gravel
COUNTY: Sumner
LOCATION: CSE SEC 33 TWP 33E RANGE 22E
OWNER: Lewis and John Larson
R.F. 2 Oxford, Kansas

TENANT:
NATURE OF DEPOSIT: Clay
ACCESSIBILITY: Good
STATUS OF SITE: Open site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom</th>
<th>Depth</th>
<th>Percent of size</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGY: Age: Pleistocene
Geological Source: High terrace
Material Similar To:

REMARKS: This site has been filled in since being abandoned.
Material from this location was used as subbase material for the Kansas Turnpike.
STATE HIGHWAY COMMISSION OF KANSAS  
MATERIAL SURVEY REPORT  

SITE NO. 30±26  
DATE May, 1964  

MATERIAL: Sand and Gravel  
COUNTY: Sumner  

LOCATION:  
SEC 6  
TWP 36S  
RANG E 2E  

OWNER: Fred Austin Gibson  
Rt. 1  
South Haven, Kansas  

TENANT:  

NATURE OF DEPOSIT: Eas/Day  
ACCESSIBILITY: Good  

STATUS OF SITE: Open site; not sampled  

EXPLORATION DATA  

<table>
<thead>
<tr>
<th>Test hole</th>
<th>Material in Meters Below</th>
<th>Depth of Exploration</th>
<th>Depth of Fill</th>
<th>Percent Hauled</th>
<th>Frac. 1/2</th>
<th>Frac. 1/4</th>
<th>Frac. 3/8</th>
<th>Frac. 1/8</th>
<th>Frac. 1/16</th>
<th>Frac. 1/32</th>
<th>Frac. 1/64</th>
<th>Frac. 1/128</th>
<th>Frac. 1/256</th>
<th>Frac. 1/512</th>
<th>Frac. 1/1024</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

CORRELATION DATA  

GEOL O GICAL AGE: Pleistocene  
GEOL O GICAL SOURCE: High terrace  

MATERI AL SIMILAR TO:  

REMARKS:  

...
STATE HIGHWAY COMMISSION OF KANSAS  
MATERIAL SURVEY REPORT  

SITE NO. 80-27  
DATE May, 1964  

MATERIAL: Sand and gravel  
COUNTY: Sumner  

LOCATION: Sec. 21   
TWP. 33T   
RANGE 2E  

OWNER: Augusta Melick o/b Kenneth Dunbar R.R.2  
ARKANSAS CITY, Kansas  

NATURE OF DEPOSIT: Dry  
ACCESSIBILITY: Good  

STATUS OF SITE: Open site; not sampled  

EXPLORATION DATA  

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Drift of Dunes</th>
<th>Depth at</th>
<th>%</th>
<th>4</th>
<th>10</th>
<th>20</th>
<th>40</th>
<th>50</th>
<th>Drill Point</th>
<th>Shell</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CORRELATION DATA  

GEOLOGICAL AGE: Pleistocene  
GEOLOGICAL SOURCE: High terrace  

MATERIAL SIMILAR TO:  

REMARKS:  

[Diagram of survey results with scale 1" = 1/2 Mile]
APPENDIX II

The following site data forms are designated as “open site; sampled.” The sites described herein are depicted on the county materials maps as a “■”.

**LEGEND**

![Symbol](image)

This symbol on the site data form represents an open site.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50-31 DATE May, 1949
MATERIAL Sand and Gravel COUNTY Sumner
LOCATION NE 1/4 SEC. 19 TWP. 32S RANGE 2W
OWNER Ernest J. Evans Rt. 1 Wellington, Kansas
TENANT
NATURE OF DEPOSIT Dry ACCESSIBILITY Good
STATUS OF SITE Open site; sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Measured Depth</th>
<th>Depth of</th>
<th>Percent Packed</th>
<th>Depth of</th>
<th>Percent Moisture</th>
<th>Bulk</th>
<th>Percent Packed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockville</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1 1/2</td>
<td>6 1/2</td>
<td>4</td>
<td>30</td>
<td>60</td>
<td>20</td>
<td>80</td>
</tr>
</tbody>
</table>

CORRELATION DATA

Geological Age: Pleistocene
Geological Source: High terrace

Material similar to material reported on SHE Form 612, No. 95-11

REMARKS:
Soundness: 0.98
Specific Gravity: 2.56
Weight/Cu. Ft.: 107.4
L.A. Moist (Grading D): 34.9
Strength Ratio (1 Day): 1.23 (3 Day): 1.28

Scale: 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 30-32
Qd

DATE
May, 1948

MATERIAL
Sand and Gravel

COUNTY
Sumner

LOCATION
31, 834
SEC. 16
TWP. 33S
RANGE 2E

OWNER
Louis Reekman
Caldwell, Kansas

EXPLORATION DATA

NATURE OF DEPOSIT
Dry

ACCESSIBILITY
Good

STATUS OF SITE
Open site; sampled

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material</th>
<th>Depth of Material (ft)</th>
<th>Depth of Rule</th>
<th>Percent Rejected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab. No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6778</td>
<td></td>
<td>16 19</td>
<td>40 71</td>
<td>87 22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 10</td>
<td>100 100</td>
<td>100 100</td>
</tr>
</tbody>
</table>

Correlated May, 1959

REMARKS
Soundness 0.28
Specific Gravity 2.51

WEIGHT/CU.FT. 92.5
L.A. Sure (Grading D) 32.6
Absorption 2.35%
Strength Ratio (1 Day) 0.98 (3 Day) 0.96

GEOLOGICAL AGE Pleistocene
GEOLOGICAL SOURCE High terrace
MATERIAL SIMILAR TO material reported on HSC Lab. Sheet No. 6778
**STATE HIGHWAY COMMISSION OF KANSAS**

**MATERIAL SURVEY REPORT**

**SITE NO.**

**DATE**

Mar. 1961

**MATERIAL**  Sand and Gravel

**COUNTY**  Sumner

**LOCATION**  Sec. 36  Twp. 328  Range 28

**OWNER**  D. L. Donley

2002 Ida

Wichita, Kansas

**TENANT**

**NATURE OF DEPOSIT**  Wet

**ACCESSIBILITY**  Good

**STATUS OF SITE**  Open

---

**EXPLORATION DATA**

<table>
<thead>
<tr>
<th>Well</th>
<th>Material</th>
<th>Depth of Coring</th>
<th>Depth of Bentonite</th>
<th>Permeability Test</th>
<th>Test</th>
<th>August, 1961</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab. No.</td>
<td>8592</td>
<td>2 10 35</td>
<td>73 87</td>
<td>91 95</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Lab. No.</td>
<td>18596</td>
<td>3 6</td>
<td>21</td>
<td>68 78</td>
<td>95 99</td>
<td>1</td>
</tr>
<tr>
<td>Lab. No.</td>
<td>12933</td>
<td>3 6 20</td>
<td>76 77</td>
<td>94 96</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Tested August, 1961

**CORRELATION DATA**

**GEOLOGICAL AGE**  Recent

**GEOLOGICAL SOURCE**  Flood Plain

**MATERIAL SIMILAR TO**

material reported on SHC lab sheet Nos. 8592, 18596, 12933

**REMARKS**

- Soundness: 0.97, 0.98, 0.98
- Specific Gravity: 2.62, 2.61, 2.60
- Weight/Cu. Ft.: 131.8, 131.3, 105.76
- L.A. Wear (Grading D): 33.4, 35.3, 36.2
- Absorption: 0.5%, 0.5%, 0.7%
- Strength Ratio: (1 Day) 1.37, 1.53, 1.62, (3 Days) 1.89, 1.62
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50+15 DATE May, 1954

MATERIAL Sand and Gravel COUNTY Summer

LOCATION NE 1 SEC. 3 TWP. 31S RANGE 28

OWNER Mary E. Barner Rt. 1, Baile Plains, Kansas

TENANT

NATURE OF DEPOSIT Open site; sampled (Abandoned)

ACCESSIBILITY Good

STATUS OF SITE

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Material</th>
<th>Depth of pit</th>
<th>Depth of core</th>
<th>Core length</th>
<th>Gradation Factor</th>
<th>Total</th>
<th>Sampled</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Clay</td>
<td>0</td>
<td>24</td>
<td>24</td>
<td>1.38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stockpile</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tested March, 1954

CORRELATION DATA

GEOLoGICAL AGE Recent

GEOLoGICAL SOURCE Flood Plain

MATERIAL SIMILAR TO material reported on SNO Form 619, No. 96-1.

REMARKS: This pit has been silted in, but similar material is available at this site.

Soundness 0.97 L.A. Wear (Grading D) 34.4

Specific Gravity 2.61

Strength Ratio (1 Day) 1.60

WE/CH, Ps, 114.6

(1 Day) 1.43
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 50-76
DATE May, 1951

MATERIAL Sand and Gravel
COUNTY Sumner

LOCATION SW\(^2\), SEc. 6 & NW\(^2\), SEc. 7
TWP... 30S RANGE 2E

OWNER Mulvane Sand and Gravel Co.
Mulvane, Kansas

NATURE OF DEPOSIT Wet
ACCESSIBILITY Good

STATUS OF SITE Open site, sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Depth of No.</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Depth of</th>
<th>Depth of</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>98-98.5</td>
</tr>
</tbody>
</table>

CORRELATION DATA
Tasted March, 1960

GEOLICAL AGE: Recent
GEOLICAL SOURCE: Flood Plain

MATERIAL SIMILAR TO MATERIAL reported on SHC Form 619, Nos. 96-7 and 96-39 and on Lab. Sheet Nos. 1051, 1052, 1053.

REMARKS:
Soundness: 0.98
Specific Gravity: 2.60, 2.62
Weight/Cu. Ft.: 110.96, 110.99
Lab. ~ [{Grade D}] 34.5, 35.1
Absorption: 0.45
Strength Ratio (3 Day): 1.14, 1.15
Strength Ratio (3 Day): 1.14, 1.15

Scaler: 1/2 Mile
STATE HIGHWAY COMMISSION OF KANSAS

MATERIAL SURVEY REPORT

SITE NO. 20-38 Date May, 1964

MATERIAL Sand and Gravel

LOCATION 33

COUNTY Sumner

TOWNSHIP 33

RANGE 2E

OWNER Mildred & Rom Stenberg

Pella Plains, Kansas

AGENCY KAN.

PROPERTY ACCESSIBILITY Good

EXPLORATION DATA

[Table begins]

<table>
<thead>
<tr>
<th>Lab. No.</th>
<th>2H66</th>
<th>Depth of Sample</th>
<th>Moisture</th>
<th>Organic</th>
<th>Density</th>
<th>Permeability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>10</td>
<td>23</td>
<td>10.6</td>
<td>77.9</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>20</td>
<td>22</td>
<td>10.6</td>
<td>77.9</td>
<td></td>
</tr>
</tbody>
</table>

[Table ends]

CORRELATION DATA

ECOLOGICAL AGE Pleistocene

GEOLOGICAL SOURCE Stream terrace

MATERIAL SIMILAR TO material reported on SHP Lab Sheet No. 2H66

[Graph begins]

[Graph ends]

Groundwater 33'

Specific Gravity 2.61

Density/Gr. Pt. 115.0

L. A. Wear (Grading D') 33.3

Absorption O/L

Strength Ratio (3 Day) 1.29 (3 Day) 1.30

Scale: 1" = 1/2 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 201
DATE May, 1954

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: NE 3/4
SEX: 25
TWP: 32S
RANGE: 1W

OWNER: Thomas R. Hennes
 Mt. Ida Wellington, Kansas

TENANT: None
ACCESSIBILITY: Good

NATURE OF DEPOSIT: Dry
STATUS OF SITE: Open Site; Sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Material</th>
<th>Depth of Gravel</th>
<th>Depth of Deposit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Feet</td>
<td>Feet</td>
</tr>
<tr>
<td></td>
<td>ok 1</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>1  5  11 19 24</td>
<td>33 55 68 61</td>
</tr>
<tr>
<td></td>
<td>11 22 9</td>
<td>69</td>
</tr>
</tbody>
</table>

Average: 8

CORRELATION DATA

GEOLOGICAL AGE: Pleistocene
GEOLOGICAL SOURCE: High Terrace

MATERIAL: Similar to material reported on SHC Form 619 No. 96-9 and SHC Lab. Sheet Nos. 619P6 and 62067.

REMARKS: None

Scale: 1" = 1/4 mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 10010 DATE May, 1964
MATERIAL: Sand and Gravel COUNTY: Sumner
LOCATION: NE 1/4 SEC. 22 TWP. 31 S. RANGE 2W
OWNER: Queen Allen
723 S. Washington
Wellington, Ks.

TENANT: Open site - sampled

NATURE OF DEPOSIT: Mat
ACCESSIBILITY: Good

STATUS OF SITE: Open site - sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Site</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Hole (ft)</th>
<th>Depth of Material (ft)</th>
<th>Percent Moisture</th>
<th>Density of Material (pcf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab. No. 273</td>
<td></td>
<td>2</td>
<td>1 11</td>
<td>26.57</td>
<td>85.91 9</td>
</tr>
<tr>
<td>Lab. No. 26788</td>
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<td>2</td>
<td>1 8</td>
<td>39.55</td>
<td>93.77 3</td>
</tr>
<tr>
<td>Lab. No. 28060</td>
<td></td>
<td>3</td>
<td>3</td>
<td>12</td>
<td>28.72</td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLICAL AGE: Recent
GEOLICAL SOURCE: Flood Plain
MATERIAL SIMILAR TO: material reported on SHC Lab Sheet No. 2738 26788 28060

REMARKS:
Soundness: 0.88
Specific Gravity: 2.56
Weight/cu. Ft.: 105.29 105.69
L.A. Mattr (grading D): 33.9
Absorption: 1.12%
Strength Ratio (1 Day): 0.91
Strength Ratio (3 Day): 1.14

Scale: 1" = 1/2 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 80-12

DATE May, 1963

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: NE32 S. 35 T. 33S R. 2W

OWNER: Ralph Erdmey, 1201 Wellington, Kansas

TENANT: 

NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good

STATUS OF SITE: Open site; sampled

### EXPLORATION DATA

| Sample | Materials of Interest | Depth of Material | Depth of Hole | Percent Retained | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 | No. 6 | No. 7 | No. 8 | No. 9 | No. 10 | No. 11 | No. 12 | No. 13 |
|--------|-----------------------|-------------------|--------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30427  |                       |                   |              |                 |       |       |       |       |       |       |       |       |       |       |       |       |
|        |                       |                   |              |                 | 1     | 2     | 8     | 20    | 4     | 6     | 6     | 32    | 26    | 58    | 43    |

Tested September, 1963

### CORRELATION DATA

GEOLOGICAL AGE: Pleistocene
GEOLOGICAL SOURCE: High terrace
MATERIAL SIMILAR TO: material reported on SHC Lab Sheet No. 30427

REMARKS:
- Soundness: 0.99
- Specific Gravity: 2.55
- Weight/Cu. Ft.: 98.83
- L.A. Wear (Grading D): 28.2
- Absorption: 1.7%

Scale: 1" = 1 Mile
Road to Perth
Farmsites

Diagram of survey area and sample locations.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

DATE: Mar. 1964

MATERIAL: Sand and Gravel

LOCATION: Sec. 13, Twp. 128, Range 2E

OWNER: J. L. Cooper

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Lab. No.</th>
<th>Percent Retained</th>
<th>Depth of Hole</th>
<th>Gradation Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>96195</td>
<td>0</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>11</td>
<td>31</td>
</tr>
<tr>
<td></td>
<td></td>
<td>52</td>
<td>31</td>
<td>73</td>
</tr>
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<td></td>
<td>30</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50</td>
<td>90</td>
<td>0</td>
</tr>
</tbody>
</table>

GEOLOGICAL AGE: Recent

GEOLOGICAL SOURCE: Flood Plain

MATERIAL SIMILAR TO: Material reported in SIC Lab. Sheet No. 96195

REMARKS:
- Soundness: 0.99
- Specific Gravity: 2.62
- Weight/Cu.ft.: 114.4
- L.A. Wear (Grading D): 32.2
- Absorption: 0.38
- Strength Ratio (1 Day): 1.67 (3 Day): 1.86

Correlation Data: Tested December, 1956

Geology:
- Soils:
  - Graded:
    - Characteristics: 3.66
  - Tested:
    - Description: December, 1956

Scale: 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

DATE: May, 1965

MATERIAL: Site Sand
COUNTY: Sumner

LOCATION: Sec. 8
TWP.: 35S
Range: 2W

OWNER: Milton B. Green

TENANT: Address

NATURE OF DEPOSIT: Open site, sampled
ACCESSIBILITY: Good

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Lab. No.</th>
<th>2736</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>1</td>
</tr>
<tr>
<td>M2</td>
<td>1</td>
</tr>
<tr>
<td>M3</td>
<td>19</td>
</tr>
<tr>
<td>M4</td>
<td>57</td>
</tr>
<tr>
<td>M5</td>
<td>6</td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOL. AGE: Pleistocene
SOURCE: High terrace

MATERIAL: Similar to material reported on SHO Lab Sheets 2736 and 2737

REMARKS:
- Soundness: 0.96
- Specific Gravity: 2.58
- Weight/Cu. ft.: 101.0
- L.A. Shrinkage (Grading D): 35.2
- Absorption: 1.52%
- Strength Ratio (1 Day): 0.91 (3 Day): 1.2%

TESTED: August, 1958

Diagram:
- Road, School, Farm Site, Scale: 1" = 1/4 Mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 5G-45
DATE May, 1961

MATERIAL Sand and Gravel
COUNTY Sumner

LOCATION 16° 9' 06" N
SEE 92
TWP. 33S
RANGE 2W

OWNER Carl and Martin Forn

TENANT

NATURE OF DEPOSIT Dry
ACCESSIBILITY Good

STATUS OF SITE Open site; sampled

EXPLORATION DATA

| Test | Depth of \
| Rock or | Material | Depth of \
<table>
<thead>
<tr>
<th>Soil</th>
<th>Test Material</th>
<th>Nails</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>Material</td>
<td>Nails</td>
</tr>
<tr>
<td>5G-45</td>
<td>Old</td>
<td>2.5</td>
</tr>
</tbody>
</table>

AVERAGE 2.5 10 20 14 42 74 93 78 6 19

CORRELATION DATA

Tested January, 1959

EARTHAGE Eutectic
ECOLOGICAL SOURCE
MATERIAL SIMILAR TO Material reported on SHC Form 619 No. 96-18

REMARKS

Soundness 0.99
Specific Gravity 2.60
Weight/Cu.Ft. 111.2
L. A. Nare (Grading D) 31.4
Absorption 0.6%

Strength Ratio (3 Day) 1.38 (3 Day) 1.31
APPENDIX III

The following site data forms are designated as "Prospective site; sampled." The sites described herein are depicted on the county materials map as a "\( \heartsuit \)."

**LEGEND**

This symbol on the site data form represents a prospective site; sampled.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 8-46

DATE May, 1964

COUNTY Sumner

LOCATION NW 1/4 SEC. 24 TWP 31S RANGE 3W

OWNER W. F. Higgins

TENANT

NATURE OF DEPOSIT Dry

ACCESSIBILITY Good

STATUS OF SITE Prospective site sampled

EXPLOSION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Surface</th>
<th>Depth of Material</th>
<th>Depth of Hole</th>
<th>Percent Related</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>120</th>
<th>140</th>
<th>160</th>
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</thead>
<tbody>
<tr>
<td>Average</td>
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<td>3.5</td>
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<td>3</td>
<td>10</td>
<td>38</td>
<td>71</td>
<td>79</td>
<td>20</td>
<td>29</td>
<td>16</td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE Fluvial
GEOLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO material reported on SHD Form 619, No. 96-32

REMARKS:

Scale: 1" = 330'
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 903
DATE May, 1966

MATERIAL Mineral Filler
COUNTY Sumner

LOCATION SW 1/4
SEC. 31
TOW. 30S
RANGE 2E

OWNER E. R. Bishop
Belle Plaine, Kansas

TENANT

NATURE OF DEPOSIT Dry
ACCESSIBILITY Fair

STATUS OF SITE Prospective site: sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Depth of Material</th>
<th>Depth of gravel</th>
<th>Percent gravel</th>
<th>Depth of sand</th>
<th>Percent sand</th>
<th>Depth of clay</th>
<th>Percent clay</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

COORELATION DATA

GEOLOGICAL AGE Recent
GEOLOGICAL SOURCE Flood Plain

MATERIAL SIMILAR TO material reported on SHP Form 619 No. 96-17

REMARKS:

Scale: 1" = 1 mile
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 9
DATE May, 1964

MATERIAL Sand and Gravel

LOCATION NW 1/4 (30 Acres)

OWNER Leo Ebenezer

TENANT

NATURE OF DEPOSIT Dry

ACCESSIBILITY Good

STATUS OF SITE Prospective site sampled

EXPLANATION DATA

<table>
<thead>
<tr>
<th>Depth of Hole</th>
<th>Depth of Material</th>
<th>Depth of Rock</th>
<th>Partial Revival</th>
<th>Final Revival</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>11</td>
<td>1</td>
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CORRELATION DATA

GEOLOGICAL AGE Miocene
GEOLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO material reported on SHC Form 619, No. 96-11

REMARKS:

Scale: 1" = 330'
Shelter Belt