APPENDIX IV

The following site data forms are designated as "prospective site, not sampled." The sites described herein are depicted on the county materials map as a "●".

LEGEND

This symbol on the site data form represents a prospective site; not sampled.
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

DATE: May, 1942

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: Sec. 17
TWP 34S
RANGE 2E

OWNER: C.R. Critt
5622 E. Douglas, Wichita, Kansas

TENANT: None

NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good

STATUS OF SITE: Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Date</th>
<th>Material</th>
<th>Depth of Drift</th>
<th>Depth of Rock</th>
<th>Rock Type</th>
<th>Percent</th>
<th>Rock Finish</th>
<th>Percent</th>
<th>5</th>
<th>7</th>
<th>10</th>
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<th>30</th>
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<td></td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE: Pleistocene
GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO

REMARKS:

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

SITE NO. 30+52
DATE May, 1964

MATERIAL Sand and Gravel
COUNTY Summer

LOCATION E2, SE4
SEC. 16
TWP. 33 S
RANGE 2E

OWNER Wayne T. Walter
7160 East Kincaid, Wichita, Kansas

TENANT

NATURE OF DEPOSIT Dry
ACCESSIBILITY Good

STATUS OF SITE Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material Below</th>
<th>Depth of Material</th>
<th>Depth of Hole</th>
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<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE Pleistocene
GEOLOGICAL SOURCE High terrace
MATERIAL SIMILAR TO

REMARKS


_scale: 1" = ½ mile_
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. SDH54 DATE May, 1964

MATERIAL Sand and Gravel COUNTY Sumner

LOCATION wt SEC 30 TWP 31S RANGE W

OWNER Trustees Baptist Church 4.5 Arthur Pank, Argonia, Kansas

TENTANT Men

NATURE OF DEPOSIT Dry ACCESSIBILITY Good

STATUS OF SITE Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Date</th>
<th>Initial Test Depth</th>
<th>Depth of Water Table</th>
<th>Depth of Handholes</th>
<th>Percent Gravel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

CORRELATION DATA

GEOLLOGICAL AGE Pleistocene GEOLLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS

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

SITE NO. 1E70-0968 DATE May, 1964

MATERIAL: Sand and Gravel COUNTY: Sumner

LOCATION: N 23' SEC. 31 TWP 31 JS RANGE 1W

OWNER: Hedrika Baker ADDRESS: Caldwell, Kansas

TENANT: Dry ACCESSIBILITY: Good

NATURE OF DEPOSIT: Prospective site; not sampled

STATUS OF SITE: 

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Site</th>
<th>Depth of Gravel</th>
<th>Depth of Water</th>
<th>Undrained Water Table</th>
<th>Depth of Foundation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site 1</td>
<td>10 ft</td>
<td>5 ft</td>
<td>2 ft</td>
<td>20 ft</td>
<td>Gravel</td>
</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE: Pleistocene 
GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO 

REMARKS: 

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

SITE NO. 50-51
DATE May, 1954

MATERIAL Sanded Gravel

COUNTY Summer

LOCATION NE 1/4 SEC. 5 TWP. 32S RANGE 1/4

OWNER Odis M. Nystrom

ARLY, Kansas

STATUS OF SITE Prospective site; not sampled

NATURE OF DEPOSIT DRY ACCESSIBILITY Good

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material Size</th>
<th>Depth of Material</th>
<th>Depth of Aggregate</th>
<th>Percent Bedded</th>
<th>Depth of Base</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOL OLOGICAL AGE Pleistocene

GEOL OLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO

REMARKS: 

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

SITE NO. 80-57
DATE May, 1961

MATERIAL Sand and Gravel

LOCATION Sec. 19 Twp. 34S Range 1W

OWNER Jon. Baker c/o Kenneth Baker Ph. 3 Caldwell, Kansas

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Depth of Bedding</th>
<th>Depth of Bedding</th>
<th>Depth of Soil</th>
<th>Percent Finished</th>
</tr>
</thead>
</table>

ACCESSIBILITY Good

STATUS OF SITE Prospective sites not sampled

CORRELATION DATA

GEOLOGICAL AGE Pleistocene
GEOLOGICAL SOURCE High terrace
MATERIAL SIMILAR TO

REMARKS:

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

SITE NO.     DATE     May, 1964
MATERIAL     Sand and Gravel
COUNTY      Sumner
LOCATION     SE 1/2, NW 1/4
OWNER     Henry Volavka
County      Caldwell, Kansas
Personnel     Jerome Volavka
Address      Milan, Kansas

NATURE OF DEPOSIT     Dry
ACCESSIBILITY     Good
STATUS OF SITE     Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Depth of Material</th>
<th>Depth of Gravel</th>
<th>Depth of Sands</th>
<th>1/2</th>
<th>1/3</th>
<th>1/4</th>
<th>1/8</th>
<th>1/16</th>
<th>1/32</th>
<th>1/64</th>
<th>1/128</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE     Pleistocene
GEOLOGICAL SOURCE     High terrane
MATERIAL SIMILAR TO     

REMARKS:

---

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

SITE NO. 80-59
DATE May, 1964

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: Sec. 1
THREE 320 H

OWNER: W. S. E. E. E. V. J. E. A.

NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good

STATUS OF SITE: Prospective site; not sampled

EXPLOSION DATA

<table>
<thead>
<tr>
<th>Test Site</th>
<th>Material at Surface</th>
<th>Depth of Material</th>
<th>Depth of Water</th>
<th>Depth of Water</th>
<th>Parent Material</th>
<th>Percent Blasting</th>
<th>Reach 250</th>
<th>Reach 1,000</th>
<th>Reach 2,500</th>
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<td>0</td>
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</tbody>
</table>

CORRELATION DATA

GEOLOGICAL AGE: Pleistocene
GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO: material found in site 80-59. It may be visually inspected at this location.

REMARKS: This site is expected to contain from four to five feet of clay bound sand and gravel.

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

SITE NO. 50-61
DATE May, 1969

MATERIAL Sand and Gravel
COUNTY Sumner

LOCATION NW
SEC. 26
TWP. 33 R. RANGE 1W

OWNER Mc. C. B. Castor
4747 High Street, Denver, Colorado

OWNER Mc. Louise Fritz
Argonia, Kansas

NATURE OF DEPOSIT FY
ACCESSIBILITY Good

STATUS OF SITE Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Depth of</th>
<th>Material</th>
<th>Moisture</th>
<th>Depth of</th>
<th>Total Percent</th>
<th>10</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>110 psi</th>
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</thead>
<tbody>
<tr>
<td>2 ft</td>
<td></td>
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<td>4 ft</td>
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</tbody>
</table>

CONCLUSION DATA

GEOLICAL AGE Pleistocene

GEOLICAL SOURCE High terrace

MATERIAL SIMILAR TO material in site 50-61. It may be visually inspected at this location.

REMARKS:

---

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

SITE NO. SK-63a
DATE May, 1964

MATERIAL: Sand and Gravel
COUNTY: Sumner

LOCATION: N:\, Sec. 2, Twp. 32S, Range 18W

OWNER: E.L. Clingan, Claypool, Arkansas
Owner Address: 111-12, Ft. Smith, Arkansas
Owner Address: 701-14, Ft. Worth, Arkansas
Owner Address: 701-14, Ft. Worth, Arkansas

NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good
STATUS OF SITE: Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Site</th>
<th>Max. Depth of Exploration (ft)</th>
<th>Max. Depth of Materials (ft)</th>
<th>Depth of Site (ft)</th>
<th>Percent Rakin</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

CORRELATION DATA

GEOLICAL AGE: Pleistocene
GEOLICAL SOURCE: High terrace

MATERIAL SIMILAR TO material in site. The material may be visually inspected at this location.

REMARKS:

---

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

SITE NO. 50x51
DATE May, 1961

MATERIAL: Sand
COUNTY: Smoak

LOCATION: 62
SEC: 11
TWP: 33
RANGE: 17

OWNER: Henry Sambait
Locality: Haplar, Kansas

TENANT: eas.

NATURE OF DEPOSIT: dry
ACCESSIBILITY: Good

STATUS OF SITE: Prospective site; not sampled

EXPLORATION DATA

| Depth | Bedrock | Depth | Depth
<table>
<thead>
<tr>
<th></th>
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<tr>
<td>123</td>
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<td>789</td>
<td>234</td>
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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. 9071   DATE May, 1964
MATERIAL Sand and gravel
LOCATION W½   SEC. 29   TWP. 335   RANGE 2W
OWNER Carl and Martin Kern
TENANT
NATURE OF DEPOSIT Dry
ACCESSIBILITY Good
STATUS OF SITE Prospective site not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Horiz.</th>
<th>Material in Hole</th>
<th>Depth of Material</th>
<th>%</th>
<th>1/2</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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<th>12</th>
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CORRELATION DATA

GEOLOGICAL AGE Pleistocene  GEOLOGICAL SOURCE High terrace
MATERIAL SIMILAR TO material in site Okt.

REMARKS:


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

SITE NO. SG-72 DATE May 1954

MATERIAL Sand and Gravel COUNTY Sumner

LOCATION NW1/4 SW1/4 SEC. 19 TWP. 33S RANGE 27W

OWNER Bernadine Ethel Barnes Rt. 3 Wellington, Kansas

TENANT

NATURE OF DEPOSIT Dry

ACCESSIBILITY Good

STATUS OF SITE Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Exp. Date</th>
<th>Material</th>
<th>Depth of Deposit (ft.)</th>
<th>Depth of Gravel (ft.)</th>
<th>Percent Gravel</th>
<th>Value</th>
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</table>

CORRELATION DATA

GEOLOGICAL AGE Pleistocene
GEOLOGICAL SOURCE High terrace

MATERIAL SIMILAR TO Material in site

REMARKS:

_________________________

_________________________
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 73-71
DATE May, 1964

MATERIAL: Sand and Gravel
COUNTY: Summer

LOCATION: R4, Sec 19
TWP: 33S
RANGE: 27W

OWNER: Louis Eckerman
Calhoun, Kansas

TENANT: None

NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Fair

STATUES OF SITE: Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test No.</th>
<th>Depth</th>
<th>Depth of Gravel</th>
<th>Percent of Gravel</th>
<th>Under</th>
<th>15</th>
<th>10</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>30</th>
<th>40</th>
<th>50</th>
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</tbody>
</table>

CONCLUSION DATA

GEOLOGICAL AGE: Pleistocene
GEOLOGICAL SOURCE: High terrace

MATERIAL SIMILAR TO: Material in site 70-71

REMARKS:"
STATE HIGHWAY COMMISSION OF KANSAS
MATERIAL SURVEY REPORT

SITE NO. 2074
MATERIAL Sand and Gravel
LOCATION Sec. 35
OWNERS: Robert M. Banks, South Haven, Kansas
NATURE OF DEPOSIT: Dry
ACCESSIBILITY: Good
STATUS OF SITE: Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Date</th>
<th>Material at Station M.D.</th>
<th>Depth of Cut (in)</th>
<th>Depth of Fill (in)</th>
<th>Percent Hardness</th>
<th>Total Test</th>
<th>Rock</th>
<th>No. 1</th>
<th>No. 2</th>
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<tbody>
<tr>
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</tbody>
</table>

CORRELATION DATA

GEOLLOGICAL AGE: Pleistocene
GEOLLOGICAL SOURCE: High terrace
MATERIAL: SIMILAR TO

REMARKS:

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

FILE NO. 90-74
DATE May, 1964

MATERIAL Sand and Gravel
COUNTY Sumner

LOCATION N1, SE1
SEC. 25
TWP. 12S R4E

OWNER Robert M. Hackney
Rt. 3, Wellington, Kansas

RENT

NATURE OF DEPOSIT
Dry

ACCESSIBILITY
Good

STATUS OF SITE Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Net Area</th>
<th>Percent of Total</th>
<th>Depth of Drilling</th>
<th>Depth of Drilling</th>
<th>Depth of Drilling</th>
</tr>
</thead>
<tbody>
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</table>

CORRELATION DATA

GEOLICAL AGE: Pleistocene

GEOLICAL SOURCE: High terrace

MATERIAL SIMILAR TO

REMARKS:


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

SITE NO. 30+81 ORI
DATE May, 1964

MATERIAL Sand and Gravel
COUNTY Sumner

LOCATION Sec. 6 Twp. 36S Range 28E

OWNER W. R. Swain 807 W. 18th St., Kansas City, Mo. Geuda Springs, Kansas
GEOLOGICAL AGE Pleistocene GEOLOGICAL SOURCE High terrace

NATURE OF DEPOSIT Dry ACCESSIBILITY Good

STATUS OF SITE Prospective site; not sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test</th>
<th>Depth 1/2 25 50 100 Footed</th>
<th>Depth at 4 8 10 16 30 40 50 600</th>
<th>N120 E112</th>
</tr>
</thead>
</table>

CORRELATION DATA

MATERIAL SIMILAR TO

REMARKS:

Scale: 1" = 1/2 Mile
SUMNER COUNTY MATERIALS MAP

LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (See Appendix I)
- Open site; sampled (See Appendix II)
- Prospective site; sampled (See Appendix III)
- Prospective site; not sampled (See Appendix IV)

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Sh</th>
<th>S</th>
<th>FS</th>
<th>SG</th>
<th>MF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shale</td>
<td>Sand</td>
<td>Fine Sand</td>
<td>Sand and Gravel</td>
<td>Mineral Filler</td>
</tr>
</tbody>
</table>

- Estimated Quantity:
  - + indicates more than 20,000 cubic yards
  - - indicates less than 20,000 cubic yards

- Site Data Sheet Number
- Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

- Qal: Alluvium
- Qds: Dune Sand
- Qtw: Wisconsinan Terrace Deposits
- Qki: Kansan or Illinoian Terrace Deposits
- Qn: Nebraskan Terrace Deposits
- Pn: Minneshe Shale Formation
- Rw: Wellington Shale Formation
- Not Mapped

Scale: 1 0 1 2 3 4 miles

prepared by the
STATE HIGHWAY COMMISSION OF KANSAS
in cooperation with the
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
SUMNER COUNTY MATERIALS MAP

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (See Appendix I)
- Open site; sampled (See Appendix II)
- Prospective site; sampled (See Appendix III)
- Prospective site; not sampled (See Appendix IV)

Material Type
- Sh Shale
- S Sand
- FS Fine Sand
- SG Sand and Gravel
- MF Mineral Filler

Estimated Quantity
- indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Site Data Sheet Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Qal Alluvium
Qds Dune Sand
Qtw Wisconsinan Terrace Deposits
Qth Kansan or Illinoian Terrace Deposits
On Nebraskan Terrace Deposits
Not Mapped
Not Mapped
Pn Minnesocah Shale Formation
Pw Wellington Shale Formation

Scale:
1 0 1 2 3 4 miles

prepared by the
STATE HIGHWAY COMMISSION OF KANSAS
in cooperation with the
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
SUMNER COUNTY MATERIALS MAP

LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (See Appendix I)
- Open site; sampled (See Appendix II)
- Prospective site; sampled (See Appendix III)
- Prospective site; not sampled (See Appendix IV)

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Sh</td>
<td>Shale</td>
</tr>
<tr>
<td>S</td>
<td>Sand</td>
</tr>
<tr>
<td>FS</td>
<td>Fine Sand</td>
</tr>
<tr>
<td>SG</td>
<td>Sand and Gravel</td>
</tr>
<tr>
<td>MF</td>
<td>Mineral Filler</td>
</tr>
</tbody>
</table>

Estimated Quantity
- Indicates more than 20,000 cubic yards
- Indicates less than 20,000 cubic yards

Site Data Sheet Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

- Qal Alluvium
- Qds Dune Sand
- Qtw Wisconsinan Terrace Deposits
- Qki Kansan or Illinoisan Terrace Deposits
- Ntn Nebraskan Terrace Deposits
- Nm Mapped
- Pn Minnesaunder Shale Formation
- Fw Wellington Shale Formation

Scale: 1 0 1 2 3 4 miles

prepared by the
STATE HIGHWAY COMMISSION OF KANSAS
in cooperation with the
U.S. DEPARTMENT OF COMMERCER
BUREAU OF PUBLIC ROADS
SUMNER COUNTY MATERIALS MAP

EXPLANATION OF MATERIALS SITE DESIGNATIONS

○ Open site; not sampled (See Appendix I)
☐ Open site; sampled (See Appendix II)
▲ Prospective site; sampled (See Appendix III)
○ Prospective site; not sampled (See Appendix IV)

Material Type
- Sh Shale
- S Sand
- FS Fine Sand
- SG Sand and Gravel
- MF Mineral Filler

Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Table: Site Data Sheet Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Qal Alluvium
Qde Dune Sand
Qtw Wisconsinan Terrace Deposits
Qkl Kansan or Illinoian Terrace Deposits
Qn Nebraskan Terrace Deposits
Pn Ninnescah Shale Formation
Pw Wellington Shale Formation

Scale:

1 2 3 4 miles

prepared by the
STATE HIGHWAY COMMISSION OF KANSAS
in cooperation with the
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
SUMNER COUNTY MATERIALS MAP

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (See Appendix I)
- Open site; sampled (See Appendix II)
- Prospective site; sampled (See Appendix III)
- Prospective site; not sampled (See Appendix IV)

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sh</td>
<td>Shale</td>
</tr>
<tr>
<td>S</td>
<td>Sand</td>
</tr>
<tr>
<td>FS</td>
<td>Fine Sand</td>
</tr>
<tr>
<td>SG</td>
<td>Sand and Gravel</td>
</tr>
<tr>
<td>MF</td>
<td>Mineral Filler</td>
</tr>
<tr>
<td>SQ+19</td>
<td>Estimated Quantity</td>
</tr>
<tr>
<td>Qki</td>
<td>Geologic Age and Unit</td>
</tr>
</tbody>
</table>

EXPLANATION OF MAP SYMBOLS

- Qa1 Alluvium
- Qds Dune Sand
- Qtw Wisconsinan Terrace Deposits
- Qki Kansas or Illinoisan Terrace Deposits
- Qn Nebraskan Terrace Deposits
- Not Mapped
- Pn Nimneshc Shale Formation
- Pw Wellington Shale Formation

Scale: 1 0 1 2 3 4 miles

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SUMNER COUNTY MATERIALS MAP

LEGEND

EXPLANATION OF MATERIALS SITE DESIGNATIONS

- Open site; not sampled (See Appendix I)
- Open site; sampled (See Appendix II)
- Prospective site; sampled (See Appendix III)
- Prospective site; not sampled (See Appendix IV)

Material Type
- Sh: Shale
- S: Sand
- FS: Fine Sand
- SG: Sand and Gravel
- MF: Mineral Filler

Estimated Quantity
+ indicates more than 20,000 cubic yards
- indicates less than 20,000 cubic yards

Site Data Sheet Number

Geologic Age and Unit

EXPLANATION OF MAP SYMBOLS

Qal: Alluvium
Qns: Dune Sand
Qtw: Wisconsinan Terrace Deposits
Qki: Kansan or Illinoian Terrace Deposits

Qn: Nebraskan Terrace Deposits
Not Mapped
Pn: Ninnescah Shale Formation
Pw: Wellington Shale Formation

Scale: 1 0 1 2 3 4 miles

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