PROSPECTIVE MATERIALS SITES; SAMPLED

Legend

- Trail or lane
- Road
- Railroad
- Hedge or trees
- Major streams
- Intermittent streams
- Pond or lake

- Open materials sites; sampled
- Open materials sites; not sampled
- Prospective materials sites; sampled
- Prospective materials sites; not sampled
- Center of section
- Dwelling
- Cemetery
- School
- Church
- Town or city
MATERIAL SITE DATA FORM

LS+1
Ps

Site No.:                    Date: November 30, 1978

Material: Limestone          County: Allen

Location: W23 NEL5           Sec.: 26

Twp.: 23S                 Range: 17E

Owner: Don A. Canady        Box 128  La Harpe, KS 66751

Nature of Deposit: Dry      Accessibility: Good

Site Located on Plate: 1

Status of Site: Open Materials Site; Sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1/2</th>
<th>3/8</th>
<th>4</th>
<th>8</th>
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<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>LL</th>
<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age: Pennsylvanian

Geological Source: Stanton Limestone Fm; Stoner Ls, Mbr.

Material Similar To: KDOT Lab No. 74-667

KDOTT Materials Department Site No. 1-35

Specific Gravity (Sat.) 2.59, 2.60 (Dry) 2.51, 2.54

Los Angeles Wear 31(B)

Absorption 3.0, 2.1

Soundness 0.96

Wt. Cu. Ft. Str. Ratio

Remarks: Aerial Photo No. AL 14-21

Scale: 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

Site No. LS+2

Date November 30, 1978

Material Limestone

County Allen

Location NE3, NE3 Sec. 27 Twp. 23S Range 18E

Owner John W. & Olive L. Carpenter

Moran, KS 66755

Name of Deposit Dry

Accessibility Good

Site Located on Plate I

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1%</th>
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<th>200</th>
<th>G.F.</th>
<th>L.L.</th>
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</thead>
</table>

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Stanton Limestone Fm., Captain Creek Ls. Mbr.

KDOT Lab No.'s. 22060, 22680, 27087, 65-124

KDOT Materials Department Site No. 1-25

Specific Gravity (Sat.) 2.65, 2.65, 2.54, 2.66 (Dry) 2.65, 2.65, 2.46, 2.54

Los Angeles Wear 27.0 (B) 26.7 (B) 31.9 (C) 27.5 (B)

Absorption 1.39, 1.02, 3.17, 2.42 Soundness 0.97, 0.97, 0.99, 0.99

Wt. Cu. Ft. Str. Ratio


Periodic portable crushing operation. Aerial photo No. AL 14-17

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

Site No. LS+3

Date November 30, 1978

Material Limestone

County Allen

Location NW4, SW4 Sec. 20 Twp. 23S Range 19E

Owner Rollin & Ina Strickler R.R. 2 Colony, KS 66015

Nature of Deposit Dry

Accessibility Good

Site Located on Plate I

Status of Site Open Materials Site: Sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
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<th>Depth of Material</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.L.</th>
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</table>

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Plattsburg Limestone Fm., Spring Hill Ls. Mbr.

Material Similar To KDOT Lab No.’s 69-2335, 69-3169

KDOT Materials Department Site No. I-32

Specific Gravity (Sat.) 2.60, 2.60 (Dry) 2.54, 2.55

Los Angeles Wear 35.3(B), 32.4(B)

Absorption 2.70, 2.18

Soundness 0.98, 0.97

Wt. Cu. Ft. ____________________________

Str. Ratio ____________________________

Remarks Quarry located 3 mi. South and 1 mi. East of Colony, KS

Periodic portable crushing operation. Aerial Photo No. AL 14-14
MATERIAL SITE DATA FORM

Site No. LS+4

Date November 30, 1978

Material Limestone

County Allen

Location SE 1/4, SW 1/4 Sec. 5 Twp. 24S Range 19E

Owner George, William & Edith Thohoff 115 Sycamore Iola, KS 66749

Nature of Deposit Dry

Accessibility Good

Site Located on Map I

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Plattsburg Limestone Fm; Spring Hill Ls. Mbr.

Material Similar To KDOT Lab No. 68-577 KDOT Materials Department Site No. 1-31

Specific Gravity (Sat.) 2.64 (Dry) 2.60

Los Angeles Wear 30.1(B)

Absorption 1.66 Soundness 0.96

Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 4 mi. North & 3 mi. East of Iola, KS

Periodic portable crushing operation. Aerial Photo No. AL 14-31

Scale: 1 Inch = 1/4 Mile
**MATERIAL SITE DATA FORM**

**Site No.**

**Date**

November 30, 1978

**Material**

Limestone

**County**

Allen

**Location**

NEs, SEs

Sec. 5 Twp. 24S Range 19E

**Owner**

Larry, Sally, Darrell & Nancy Monfort R.R.2 Iola, KS 66749

**Nature of Deposit**

Dry

**Accessibility**

Good

**Site Located on Plate**

I

**Status of Site**

Open Materials Site; Sampled

---

**EXPLORATION DATA**

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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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</table>

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**CORRELATION DATA**

**Geological Age**

Pennsylvanian

**Geological Source**

Pittsburg Limestone Fm; Spring Hill Ls, Mbr.

**Material Similar To**

KDOT Lab. No.s 92878 and 21154

KDOT Materials Department Site No. 1-20

**Specific Gravity (Sat.)**

2.62, 2.60

2.56, 2.54

**Los Angeles Wear**

28.4(B) 30.2(B)

**Absorption**

2.11, 2.34

0.94, 0.92

**Wt. Cu. Ft.**

---

**Str. Ratio**

---

**Remarks**

Quarry located 3 mi. North and 4.5 mi. East of Iola.

Periodic portable crushing operation, Aerial Photo No. AL 14-31
MATERIAL SITE DATA FORM

Site No. LS+6
Fi

Date November 30, 1978

Material Limestone
County Allen

Location NE¼, SE¼ Sec. 14 Twp. 24S Range 19E

Owner Leo & Annie C. Smart Rt. 1 La Harpe, KS 66751

Nature of Deposit Dry
Accessibility Good

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1/2</th>
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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To KDOT Lab No.'s 24094, 38415
KDOT Materials Department Site No. 1-27

Specific Gravity (Sat) 2.56, 2.56 (Dry) 2.49, 2.49

Los Angeles Wear 36.0(B), 32.5(B)

Absorption 3.11, 2.98 Soundness 0.98, 0.99

Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 1 mi. East and 2½ mi. North of La Harpe, KS
Periodic portable crushing operations. Aerial Photo No. AL 14-52
Material Site Data Form

Site No. LS+7

Date November 30, 1978

Material Limestone

County Allen

Location NW¼, SW¼ Sec. 2 Twp. 24S Range 20E

Owner Bess Baker R.R. 1 Moran, KS 66755

Nature of Deposit Dry

Accessibility Good

Site Located on Plate II

Status of Site Open Materials Site; Sampled

Exploration Data

<table>
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<tr>
<th>Test Hole</th>
<th>Material of Bottom of Hole</th>
<th>Depth of Overburden</th>
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</table>

Correlation Data

Geological Age Pennsylvania

Geological Source Iola Limestone Fm.; Raytown Ls. Mbr.

Material Similar To KDOT Lab No.'s 22761, 24253, 25391, 32267

KDOT Materials Department Site No. 1-26

Specific Gravity (Sat) 2.55, 2.54, 2.54, 2.55; (Dry) 2.47, 2.45, 2.46, 2.47

Los Angeles Wear 34.5(B) 34.4(B) 34.7(B) 34.2(B)

Absorption 3.09, 3.45, 3.19, 3.07

Soundness 0.98, 0.99, 0.99, 0.98

Wt. Cu. Ft. 13

Str. Ratio 1


Portable crushing operation. Aerial Photo No. AL 14-37

Scale: 1 Inch = ½ Mile
MATERIAL SITE DATA FORM

Site No. LS+8  

Date November 30, 1978

Material Limestone  

County Allen

Location SE1/4, NE1/4  

Sec. 9  

Twp. 25S  

Range 18E

Owner Dale E. & Jacqueline Webb  

Box 77  

Iola, KS 66749

Nature of Deposit Dry  

Accessibility Good  

Site Located on Plate III

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1 1/2 | 1 3/4 | 3/8 | 1 1/4 | 1 1/8 | 1 1/2 | 3 1/2 | 5 1/2 | 7 1/2 | 1 3/8 | 1 15/32 | 1 1/2 | 1 3/16 | 1 1/16 | 1 5/32 | 1 7/64 | Wash 200 | G.F. | LL | P.I. |
|-----------|---------------------------|---------------------|-------------------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           |                           |                     |                   |       |       |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm.-Raytown Limestone Mbr.

Material Similar To KDOT Lab No. 77-441 KDOT Materials Department  

Site No. 1-37

Specific Gravity (Sat) 2.57  

(Dry) 2.50

Los Angeles Wear 36(B)

Absorption 2.8  

Soundness 0.99

Wt. Cu. Ft. Str. Ratio

Remarks Quarry located Southwest of Iola on US-169

Periodic portable crushing operation. Aerial Photo No. AL 14-98
MATERIAL SITE DATA FORM

Site No. LS+9  

Date November 30, 1978  

Material Limestone  

County Allen  

4th Location NE  

Sec. 2 Twp. 25S Range 18E  

Owner Iola Industries Inc. C/O Iola State Bank Iola, KS 66749  

Nature of Deposit Dry  

Accessibility Good  

Site Located on Plate III  

Status of Site Open Materials Site; Sampled  

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>50</th>
<th>100</th>
<th>Wash</th>
<th>C.F.</th>
<th>LL</th>
<th>P.L.</th>
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</table>

CORRELATION DATA

Geological Age Pennsylvanian  

Geological Source Iola Limestone Fm.-Raytown Limestone Mbr.  

Material Similar To KDOT Lab No. 73-2942 KDOT Materials Department Site No. 1-34  

Specific Gravity (Sat.) 2.55, 2.57 (Dry) 2.46, 2.51  

Los Angeles Wear 36(B)  

Absorption 3.5, 2.5  

Wt. Cu. Ft.  

Str. Ratio  

Remarks  

*WS NE 4 Sec. 1 Twp 25S Range 18E  

*St SE 4 Sec. 35 Twp 24S Range 18E Aerial Photo No. AL 14-68  

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

Site No. LS+10  
Date November 30, 1978  

Material Limestone  
County Allen  

Location SW4 Sec. 33 Twp. 24S Range 19E  
Owner Darrel Stokes Rt. 3 Iola, Kansas 66749  
Name Dry  
Address Good  
Accessibility Site Located on Plate III  
Status of Site Open Materials Site; Sampled  

EXPLORATION DATA

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<th>Test Hole</th>
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CORRELATION DATA

Geological Age Pennsylvanian  
Geological Source Iola Limestone Fm.-Raytown Limestone Mbr.  
Material Similar To KDOT Lab No. 77-495 KDOT Materials Department Site No. 1-38  
Specific Gravity (Sat.) 2.56, 2.60 (Dry) 2.48, 2.54  
Los Angeles Wear 37(B)  
Absorption 3.1 2.2 Soundness 0.99  
Wt. Cu. Ft.  
Str. Ratio  
Remarks Aerial Photo No. AL 14-72  

Scale: 1 Inch = 1/4 Mile
MATERIAL SITE DATA FORM

Site No. LS+11
Date November 30, 1978

Material: Limestone
County: Allen

Location: SW1/4, NW1/4
Sec. 34
Twp. 24S
Range 19E

Owner: Howard Nelson
Rt. 2
La Harpe, KS 66751

Nature of Deposit: Dry
Accessibility: Good
Site Located on Plate III

Status of Site: Open Materials Site; Sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Material</th>
<th>1/2</th>
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<th>Wash</th>
<th>G.F.</th>
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<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age: Pennsylvanian
Geological Source: Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To: KDOT Lab No.'s 68-816 68-817 69-160 69-159
KDOT Materials Department Site No. 1-29

Specific Gravity (Sat.) 2.58, 2.58, 2.56, 2.57
(Dry) 2.52, 2.50, 2.49, 2.50

Los Angeles Wear: 32.4(B), 35.2(B), 35.8(B), 35.0(B)

Absorption: 2.40, 2.46, 3.11, 2.63
Soundness: 0.99, 0.98, 0.97, 0.98

Wt. Cu. Ft. ____________________ Str. Ratio ____________________

Remarks: Quarry located 1 mi. West and ½ mi. South of La Harpe, KS
Aerial Photo No. AL-14-72

Scale: 1 inch = 1/2 mile
MATERIAL SITE DATA FORM

LS+12
Fi

Site No. ___________________________ Date ___________________________

November 30, 1978

Limestone
County
Allen

Material ___________ County ___________

Location E23, NE4 Sec. 2 Twp. 25S Range 19E

Allen Co. Allen Co. Courthouse Iola, KS 66749

Owner ___________ name ___________

Dry Address ___________ Site Located on Plate ___________

Nature of Deposit Accessibility

Good

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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<th>Test</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
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CORRELATION DATA

Pennsylvanian
Geological Age

Iola Limestone Fm. - Raytown Ls. Mbr.
Geological Source

KDOT Lab No.'s 1413 and 21501
Material Similar To

KDOT Materials Department Site No. 1-17

Specific Gravity (Sat.) 2.52, 2.55
(Dry) 2.42, 2.47

Los Angeles Wear 36.0, 37.5

Absorption 4.06, 3.15

Soundness 0.94, 0.97

Wt. Cu. Ft. Str. Ratio

Remarks Presently used as a county landfill and quarry.

Aerial Photo No. AL 14-72

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

LS+13

Site No. ____________________ Date November 30, 1978

Material Limestone

County Allen

Location SE 1/4, SW 1/4

Sec. 25 Twp. 24S Range 20E

Owner Florence & Nelson et al. La Harpe, KS 66751

Nature of Deposit Dry

Accessibility Good

Status of Site Open Materials Site: Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1/2 | 1/4 | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | LL | P.I. |
|-----------|---------------------------|---------------------|------------------|-----|-----|-----|---|---|----|----|----|-----|------|-----|-----|-----|-----|

CORRELATION DATA

Geological Age Pennsylvania

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To KDOT Lab No. 73-328

KDOT Materials Department Site No. I-21

Specific Gravity (Sat.) 2.56, 2.61

(Dry) 2.48, 2.56

Los Angeles Wear 37(B)

Absorption 3.30, 1.83

Soundness 0.97

Wt. Cu. Ft. ____________

Str. Ratio ____________

Remarks Quarry located 0.5 mi. North of Moran, KS.

Periodic portable crushing operation. Aerial Photo No. AL 14-79
MATERIAL SITE DATA FORM

Site No. LS+14 \[14\] Ft
Date November 30, 1978

Material Limestone
County Allen

Location NWP3, SWP3 Sec. 32 Twp. 26 Range 18

Owner John A. & Ethel E. Thurman Rt.2 Chanute, KS 66720

Nature of Deposit Dry
Accessibility Good

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
<th>Material of Bottom of Hole</th>
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<th>Wash 200</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To KDOT Lab No. 71-3192 KDOT Materials

Department Site No. 1-33

Specific Gravity (Sat.) 2.57, 2.62 (Dry) 2.49, 2.58

Los Angeles Wear 45

Absorption 3.08, 1.63 Soundness .98

Wt. Cu. Ft. Str. Ratio

Remarks Abandoned

Aerial Photo No. AL 14-178
MATERIAL SITE DATA FORM

Site No. LS+15  
Date November 30, 1978

Material Limestone  
County Allen

Location SW1/4, SE1/4 Sec. 14  
Twp. 26S Range 18E

Owner George Karl & Emma W. Nordt 1220 Signor Humboldt, KS 66748

Nature of Deposit Dry  
Accessibility Good Site Located on Plate V

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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<th>8</th>
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<th>30</th>
<th>50</th>
<th>100</th>
<th>Wash</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.L.</th>
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</table>

CORRELATION DATA

Geological Age Pennsylvanian  
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To KDOT Lab No.s 31395 & 38417

KDOT Materials Department Site No. 1-28

Specific Gravity (Sat.) 2.56, 2.59 (Dry) 2.49, 2.53

Los Angeles Wear 36.3(B), 32.9(B)

Absorption 2.93, 2.29  
Soundness 0.96, 0.99

Wt. Cu. Ft. --  
SIr. Ratio --

Remarks Aerial Photo No. AL 14-149

Scale: 1 inch = ¼ Mile
MATERIAL SITE DATA FORM

Site No. LS+16 Pi
Date November 30, 1978
Material Limestone
County Allen
Location NE 4, NE 4 Sec. 18 Twp. 26S Range 19E
Owner Merle E. & Eileen Mudler Rt. 2 Humboldt, KS 66748
Name Dry Address Good Site Located on Plate V
Nature of Deposit Open Materials Site; Sampled
Status of Site

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
Material Similar To KDOT Lab No. 84886
KDOT Materials Department Site No. 1-23
Specific Gravity (Sat.) 2.57 (Dry) 2.50
Los Angeles Wear 34.2(B)
Absorption 2.60 Soundness 0.97
Wt. Cu. Ft. Str. Ratio
Remarks Aerial Photo No. AL 14-150

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

Site No. LS+17

Date November 30, 1978

Material Limestone

County Allen

Location SE 1/4, SW 1/4 Sec. 32 Twp. 25S Range 19E

Owner Andrew H. & Mary R. Setter Rt. 2 Humboldt, KS 66748

Nature of Deposit Dry Accessibility Good Site Located on Plate

Status of Site Open Materials Site; Sampled

EXPLORATION DATA

<table>
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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>1 1/2</th>
<th>3/8</th>
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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To KDOT Lab No. 68-578

KDOT Materials Department Site No. 1-30

Specific Gravity (Sat.) 2.57 (Dry) 2.49

Los Angeles Wear 38.4(B)

Absorption 3.10 Soundness 0.98

Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 5 mi. East & 0.5 mi. North of Humboldt, KS

Periodic portable crushing operation. Aerial Photo No. AL 14-111

Scale: 1 inch = 1/2 mile
MATERIAL SITE DATA FORM

Site No. LS+18
Date November 30, 1978

Material Limestone
County Allen

Location Sec. 9
Twp. 26S
Range 19E

Owner John Keith Croisant
4411 Gardendale Apt. 42
San Antonio, TX 78240

Nature of Deposit Dry
Accessibility Good
Status of Site Open Materials Site; Sampled

EXPLORATION DATA

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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>3/8</th>
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<th>Wash 200</th>
<th>G.F.</th>
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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
Material Similar To KDOT Lab No. 74-2161
KDOT Materials Department Site No. 1-36

Specific Gravity (Sat.) 2.60 (Dry) 2.53
Los Angeles Wear 34(B)
Absorption 2.7 Soundness 0.99

Wt. Cu. Ft. Str. Ratio

Remarks Quarry located 5 mi. East, 1 1/2 mi. South, 1/4 mi. East of Humboldt, KS
Periodic portable crushing operation. Aerial Photo No. AL 14-133

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

LS+19

Date: November 30, 1978

Site No. ___________________________

Material: Limestone

County: Allen

Location: SW1/4, NW1/4 Sec. 3 Twp. 26S Range 19E

Owner: Andrew H. & Mary R. Setter Rt.2 Humboldt, KS 66748

Nature of Deposit: Dry

Accessibility: Good

Site Located on Plate: V

Status of Site: Open Materials Site; Sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1 1/2</th>
<th>3 1/2</th>
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<th>50</th>
<th>100</th>
<th>Wash</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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<table>
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<th>Geological Age</th>
<th>Geological Source</th>
<th>Material Similar To</th>
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<tbody>
<tr>
<td>Pennsylvanian</td>
<td>Iola Limestone Fm. - Raytown Ls. Mbr.</td>
<td>KDOT Lab No.s 19614, 19922, 21565, 32266</td>
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<th>Specific Gravity (Sat)</th>
<th>Specific Gravity (Dry)</th>
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<tbody>
<tr>
<td>2.51, 2.53, 2.52</td>
<td>2.43, 2.45, 2.44</td>
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</table>

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<tr>
<th>Los Angeles Wear</th>
<th>Absorption</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.4(B) 39.3(B) 33.6(B) 37.7(B)</td>
<td>3.39, 3.41, 3.23</td>
</tr>
</tbody>
</table>

Soundness: 0.98, 0.98, 0.98

Wt. Cu. Ft. Str. Ratios

OPEN MATERIALS SITES; NOT SAMPLED

LEGEND

Trail or lane
Road
Railroad
Hedge or trees
Major streams
Intermittent streams
Pond or lake

Open materials sites; sampled
Open materials sites; not sampled
Prospective materials sites; sampled
Prospective materials sites; not sampled
Center of section
Dwelling
Cemetery
School
Church
Town or city
**MATERIAL SITE DATA FORM**

**Site No.** LS+20  
**Date** November 30, 1978  
**Material** Limestone  
**County** Allen  
**Location** NW¼, NW¼  
**Sec.** 19  
**Twp.** 24S  
**Range** 18E  
**Owner** Carl R. & Loeva B. Beaty  
**R.R.** 1  
**Iola, KS** 66749  
**Nature of Deposit** Dry  
**Accessibility** Good  
**Site Located on Plate** I  
**Status of Site** Open Materials Site; Not Sampled

### EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | LL | PI |
|-----------|---------------------------|---------------------|------------------|----|---|-----|---|---|----|----|----|----|------|------|-----|----|----|
|           |                           |                     |                  |    |   |     |   |   |    |    |    |     |       |      |     |    |    |
|           |                           |                     |                  |    |   |     |   |   |    |    |    |     |       |      |     |    |    |
|           |                           |                     |                  |    |   |     |   |   |    |    |    |     |       |      |     |    |    |
|           |                           |                     |                  |    |   |     |   |   |    |    |    |     |       |      |     |    |    |

### CORRELATION DATA

**Geological Age** Pennsylvanian  
**Geological Source** Stanton Limestone Formation - Stoner Ls, Mbr.  
**Material Similar To**  
**Specific Gravity (Sat.)**  
**Los Angeles Wear**  
**Absorption**  
**Soundness**  
**Wt. Cu. Ft.**  
**Str. Ratio**  
**Remarks** Aerial Photo No. AL 14-60

Scale: 1 inch = ¼ mile
MATERIAL SITE DATA FORM

Site No. LS+21  Date November 30, 1978
Material Limestone  County Allen
Location NW 4, NW 4  Sec. 20  Twp. 24S  Range 18E
Owner Kimbell D. Diehl  Rt. 3  Iola, KS 66749
Nature of Deposit Dry  Accessibility Good  Site Located on Plate I
Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1%</th>
<th>4%</th>
<th>8%</th>
<th>16%</th>
<th>30%</th>
<th>50%</th>
<th>Wash</th>
<th>G.F.</th>
<th>LL</th>
<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age Pennsylvania
Geological Source Plattsburg Limestone Fm. - Spring Hill Ls, Mbr.
Material Similar To

Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption
Soundness
Wt. Cu. Ft.
Str. Ratio
Remarks Aerial Photo No. AL 14-59

Scale: 1 inch = 1/2 mile
MATERIAL SITE DATA FORM

CG+22
Qtu

November 30, 1978

Site No. Date

Chert Gravel

County

Allen

Location

NW\(\frac{1}{4}\), SW\(\frac{1}{4}\)

Sec. 27

Twp. 23S

Range 18E

Owner

Dr. F. X. Lenski 703 S. Cottonwood Iola, KS 66749

Name

Address

Dry

Accessibility

Good

Site Located on Plate

I

Nature of Deposit

Status of Site

Open Materials Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1\(\frac{1}{2}\) | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.I. | P.I. |
|-----------|---------------------------|---------------------|------------------|-------------|-----|---|---|---|----|----|----|-----|------|------|------|-----|

CORRELATION DATA

Geological Age

Quaternary

Geological Source

Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.)

(Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

Remarks

Difficult to saw if used in concrete

Aerial Photo No. AL 14-17

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

Site No.  LS+23  
Date  November 30, 1978  
Material  Limestone  
County  Allen  
Location  SW 1/4, SE 1/4  Sec. 27  Twp. 23S  Range 18E  
Owner  Ervin M. & Nora L. Renelin  R.R.2 Iola, KS 66749  
Nature of Deposit  Dry  
Accessibility  Good  Site Located on Plate I  
Status of Site  Open Materials Site; Not Sampled  

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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CORRELATION DATA

Geological Age  Pennsylvanian  
Geological Source  Stanton Limestone Fm. - Stoner Ls. Mbr.  
Material Similar To  
Specific Gravity (Sat.)  (Dry)  
Los Angeles Wear  
Absorption  
Soundness  
Wt. Cu. Ft.  
Str. Ratio  
Remarks  Aerial Photo No. AL 14-17  

Scale: 1 inch = 1/4 Mile
**MATERIAL SITE DATA FORM**

**LS+24**

**Site No.**

**Material**
Limestone

**County**
Allen

**Location**
NE\(\frac{1}{4}\), SE\(\frac{1}{4}\)
Sec. 3
Twp. 24S
Range 20E

**Owner**
Francis & Martin Maca
R.R.3, Box 27
Yukon, OK 73099

**Nature of Deposit**
Dry

**Accessibility**
Good

**Status of Site**
Open Materials Site; Not Sampled

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**EXPLORATION DATA**

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<th>Depth of Over. Burden</th>
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**CORRELATION DATA**

**Geological Age**
Pennsylvanian

**Geological Source**
Iola Limestone Fm. - Raytown Ls. Mbr.

**Material Similar To**

Specific Gravity (Sol.)
(Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

Remarks

Aerial Photo No. AL 14-37

---

Scale: 1 Inch = \(\frac{1}{4}\) Mile
MATERIAL SITE DATA FORM

LS + 25
F1

Site No. Date November 30, 1978

Material Limestone County Allen

Location SW1 Sec. 23 Twp. 23S Range 20E

Owner Ira W. Jr. & Shirley Ann Anderson R.R.1 Bronson, KS 66716

Nature of Deposit Dry Accessibility Good Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1/2 | 3/8 | 1 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.L. | P.I. |
|-----------|----------------------------|---------------------|------------------|-----|-----|---|---|---|---|---|---|---|-----|------|------|------|-----|

CORRELATION DATA

Geological Age Pennsylvania

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

Remarks Aerial Photo No. AL 14-7
MATERIAL SITE DATA FORM

LS+26

Site No. Date November 30, 1978

Limestone

Material County Allen

NW SE Sec. 13 Twp. 24S Range 20E

Location

Lester F. & Edith P. Coles La Harpe, KS 66751

Owner

Dry Good

Nature of Deposit Accessibility Site Located on Plate II

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Over-Burden | Depth of Material | 1/8 3/16 1/4 3/8 1 4 8 12 30 50 100 Wash 200 G.F. L.L. P.I. |
|-----------|----------------------------|----------------------|------------------|----------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|

CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Aerial Photo No. AL 14-47

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

LS+28  

Site No.  

Date  November 30, 1978  

Material  Limestone  

County  Allen  

Location  NE 1/4, SE 1/4  

Sec.  9  

Twp.  24S  

Range  21E  

Owner  George & Gertrude Meuves  

Rt. 1  

Kincaid, KS 66039  

Nature of Deposit  Dry  

Accessibility  Good  

Site Located on Plate  II  

Status of Site  Open Materials Site; Not Sampled  

EXPLORATION DATA

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<tr>
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<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>Wash 200</th>
<th>G.F.</th>
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CORRELATION DATA

Geological Age  Pennsylvanian  

Geological Source  Dennis Limestone Fm. - Winterset Ls. Mbr.  

Material Similar To  

Specific Gravity (Sat)  (Dry)  

Los Angeles Wear  

Absorption  

Soundness  

Wt. Cu. Ft.  

Str. Ratio  

Abandoned  

Remarks  Aerial Photo No. AL 14-40  

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

Site No. LS+29  Ps  Date November 30, 1978

Material Limestone  County Allen

Location SW 1/4, SE 1/4  Sec. 25  Twp. 24S  Range 17E

Owner Lawrence A. & Marjorie M. Kramer  R.R. 1  Iola, KS  66749

Nature of Deposit Dry  Accessibility Good  Site Located on Plate III

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>¼</th>
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<th>4</th>
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<th>30</th>
<th>50</th>
<th>100</th>
<th>Wash</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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CORRELATION DATA

Geological Age Pennsylvania

Geological Source Stanton Limestone Fm. - Stoner Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Wt. Cu. Ft.

Str. Ratio

Remarks Aerial Photo No. AL 14-65

Scale: 1 inch = 3½ mile
MATERIAL SITE DATA FORM

CG+30
Otto

Date       November 30, 1978

Material           Chert Gravel
County            Allen

Location           SW\(\frac{1}{4}\), SE\(\frac{3}{4}\)
Sec.              31
Twp.             24S
Range            18E

Owner           Anna Waber C/O James T. Waber
Address        2324 Hartzell St. Evanston, IL

Nature of Deposit     Dry
Accessibility      Good
Site Located on Plate   III 60201

Status of Site       Open Materials Site; Not Sampled

EXPLORATION DATA

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<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>1/4</th>
<th>3/8</th>
<th>4</th>
<th>8</th>
<th>16</th>
<th>30</th>
<th>50</th>
<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>LL</th>
<th>P.I.</th>
</tr>
</thead>
</table>

CORRELATION DATA

Geological Age    Quaternary
Geological Source  Undifferentiated Quaternary Terrace

Material Similar To  

Specific Gravity (Sat.)  (Dry)

Los Angeles Wear  

Absorption  

Soundness  

Wt. Cu. Ft.  

Str. Ratio  

Remarks  

Aerial Photo No. AL 14-65

Scale: 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

CG+31
Qtu

Date
November 30, 1978

Chert Gravel

County
Allen

Location
NE 1/4
Sec.
6
Twp.
25S
Range
18E

Owner
Claude Lee & Nellie Nola Falley
R.R.1 Iola, KS 66749

Nature of Deposit
Dry

Accessibility
Good

Site Located on Plate
III

Status of Site
Open Material Site; Not Sampled

EXPLORATION DATA

<table>
<thead>
<tr>
<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
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<th>1/4</th>
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<th>50</th>
<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
<th>P.I.</th>
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</table>

CORRELATION DATA

Geological Age
Quaternary

Geological Source
Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.)
(Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

Difficult to saw when used in concrete.

Remarks
Aerial Photo No. AL 14-65

Scale: 1 inch = 1/4 Mile
MATERIAL SITE DATA FORM

Site No. LS+32  
Date November 30, 1978  
Material Limestone  
County Allen  
Location SW₁/₄, SE₁/₄, SE₁/₄, SW₁/₄ Sec. 9  
Twp. 25S Range 18E  
Owner Frances Louise Sandlin  
Box 232 Iola, KS 66749  
Nature of Deposit Dry  
Accessibility Good  
Site Located on Plate III  
Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Test Hole</th>
<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
<th>Depth of Material</th>
<th>1 1/2</th>
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<th>Wash</th>
<th>G.F.</th>
<th>LL</th>
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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu. Ft. Str. Ratio
Remarks Aerial Photo No. AL 14-98

Scale: 1 Inch = ½ Mile
MATERIAL SITE DATA FORM

Site No. LS+33
Material Limestone
Location Sec. 9 Twp. 25S Range 18E
Owner Kenneth A. & Retabess Ling
Date November 30, 1978
County Allen
Nature of Deposit Dry
Status of Site Open Materials Site; Not Sampled
Accessibility Good

EXPLORATION DATA

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<th>Material at Bottom of Hole</th>
<th>Depth of Overburden</th>
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<th>30</th>
<th>50</th>
<th>100</th>
<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
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CORRELATION DATA

Geological Age Pennsylvania
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu. Fr. Str. Ratio
Remarks Aerial Photo No. AL 14-98
MATERIAL SITE DATA FORM

Site No. CG+34  Date November 30, 1978
Material Chert Gravel
County Allen
Location SW 1/4 Sec. 27  Twp. 24S  Range 18E
Owner Carl C. Conger  Address Iola, KS 66749
Nature of Deposit Wet  Accessibility Site Located on Plate
Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Depth of Over. Burden</th>
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<th>Wash 200</th>
<th>G.F.</th>
<th>L.L.</th>
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CORRELATION DATA

Geological Age Quaternary
Geological Source Quaternary Alluvium
Material Similar To

Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu. Ft. Str. Ratio
Remarks Abandoned

Aerial Photo No. AL 14-58

Scale: 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

Site No. LS+35   Date November 30, 1978

Material Limestone   County Allen

Location NE 1/4, SE 1/4, SE 1/4 Sec. 11 Twp. 25S Range 19E

Owner Elmer & Ruth McEndree Rt. 1 La Harpe, KS 66751

Nature of Deposit Dry   Accessibility Good   Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian
Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption  Soundness
Wt. Cu. Ft.  Str. Ratio

Remarks Aerial Photo No. AL 14-92
MATERIAL SITE DATA FORM

Site No. LS+36
Fi Date November 30, 1978

Material Limestone County Allen

Location NW 3, NW 5 Sec. 31 Twp. 24S Range 21E

Owner Fred W. Sager Rt. Moran, KS 66755

Nature of Deposit Dry Accessibility Good Site Located on Plate IV

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>G.F.</th>
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CORRELATION DATA

Geological Age Pennsylvania

Geological Source Iola Limestone Fm. - Raytown Ls, Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Abandoned

Aerial Photo No. AL 14-79
MATERIAL SITE DATA FORM

CG+37
Otu

Date November 30, 1978

Chert Gravel
County Allen

Location SW ¼
Sec. 11
Twp. 26S
Range 17E

Owner Roberta M. Lesh
104 JJ Covenry Manor Lawrence, KS 66044

Nature of Deposit
Dry
Accessibility
Good
Site Located on Plate
V

Status of Site
Open Materials Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1½ | ¾ | 3/8 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.L. | P.L. |
|-----------|---------------------------|---------------------|-------------------|-----|---|-----|---|---|----|----|----|-----|-------|------|------|------|-----|
|           |                           |                     |                   |     |   |     |   |   |     |    |    |     |       |       |      |      |     |
|           |                           |                     |                   |     |   |     |   |   |     |    |    |     |       |       |      |      |     |
|           |                           |                     |                   |     |   |     |   |   |     |    |    |     |       |       |      |      |     |

CORRELATION DATA

Geological Age Quaternary

Geological Source Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Aerial Photo No. AL 14-140
MATERIAL SITE DATA FORM

CG+38
0tu
Chert Gravel

Date
November 30, 1978

County
Allen

Location
NWL
Sec. 11
Twp. 26S
Range 17E

Owner
L. Lavilla Mann
1604 E. Ceader
Olathe, KS 66061

Nature of Deposit
Dry
Accessibility
Good
Site Located on Plate

Status of Site
Open Material Site; Not Sampled

EXPLORATION DATA

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<th>Depth of Overburden</th>
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CORRELATION DATA

Geological Age
Quaternary

Geological Source
Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.)
(Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

Remarks
Aerial Photo No. AL 14-140

Scale: 1 inch = ¼ Mile
MATERIAL SITE DATA FORM

Site No. LS+39  
Date November 30, 1978

Material Limestone  
County Allen

Location N23° SE34  
Sec. 12  
Twp. 26S  
Range 17E

Owner Margaret L. & Homer A. Smith  
320 S, 5th Humboldt, KS

Nature of Deposit Dry  
Accessibility Good  
Site Located on Plate V 66/48

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm., - Raytown Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Aerial Photo No. AL 14-140
MATERIAL SITE DATA FORM

CG+40
0tu

Date: November 30, 1978

Site No.       Date            Material       County

Chert Gravel   Allen

Location

SW1/4 Sec. 30 Twp. 26S Range 18E

Owner

Harold E. Larson Rt. 2 Box 143 Chanute, KS 66720

Nature of Deposit

Dry

Accessibility

Good

Site Located on Plate

V

Status of Site

Open Materials Site: Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age

Quaternary

Geological Source

Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Abandoned

Aerial Photo No. AL 14-179

Scale: 1 Inch = 1/2 Mile
MATERIAL SITE DATA FORM

Site No. LS+41  
Material Limestone  
Location SE^4, NW^2  
Owner Monarch Cement Co., Inc. Humboldt, KS 66748  
Nature of Deposit Dry  
Status of Site Open Materials Site; Not Sampled  

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian  
Geological Source Iola Limestone Fm. - Raytown Ls., Mbr.  
Material Similar To  
Specific Gravity (Sat.) (Dry)  
Los Angeles Wear  
Absorption Soundness  
Wt. Cu. Ft. Sh. Ratio  
Remarks Aerial Photo No. AL 14-137  

Scale: 1 inch = 1/2 Mile
MATERIAL SITE DATA FORM

Site No. LS+42
Fi

Date November 30, 1978

Material Limestone

County Allen

Location *E\textsubscript{1/2}, N\textsubscript{3/4}, N\textsubscript{3/4} Sec. 16 Twp. 26S Range 18E

Owner Monarch Cement Co., Inc. Humboldt, KS 66748

Name Address

Nature of Deposit Dry

Accessibility Good

Site Located on Plate V

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To

Specific Gravity (Sat.)  (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks *Location E\textsubscript{1/2}, S\textsubscript{3/4}, SW\textsubscript{3/4} Sec. 9 T26S, R18E

*Location W\textsubscript{3/4}, SW\textsubscript{3/4} Sec. 10 T26S, R18E Aerial Photo No. AL 14-147

Scale: 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

Site No. LS+43

Date November 30, 1973

County Allen

Material Limestone

Location NE1/4, SE1/4, SE1/4, NE1/4 Sec. 16 Twp. 26S Range 18E

Owner Monarch Cement Co., Inc. Humboldt, KS 66748

Nature of Deposit Dry

Accessibility Good

Status of Site Open Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Pennsylvanian

Geological Source Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks Aerial Photo No. AL 14-147

Scale: 1 inch = 1/2 Mile
**MATERIAL SITE DATA FORM**

- **Site No.**: LS+44
- **Date**: November 30, 1978
- **Material**: Limestone
- **County**: Allen
- **Location**: NWPw, SE 1/4, Sec. 10, Twp 26S, Range 18E
- **Owner**: Monarch Cement Co., Inc.
- **Address**: Humboldt, KS 66748
- **Nature of Deposit**: Dry
- **Accessibility**: Good
- **Site Status**: Open Materials Site; Not Sampled

**EXPLORATION DATA**

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**CORRELATION DATA**

- **Geological Age**: Pennsylvanian
- **Geological Source**: Iola Limestone F.M., Raytown Ls. Mbr.
- **Material Similar To**
- **Specific Gravity (Sat.)**: (Dry)
- **Los Angeles Wear**
- **Absorption**
- **Soundness**
- **Wt. Cu. Ft.**
- **Str. Ratio**
- **Remarks**

Aerial Photo No. AL 14-136

Scale: 1 in = 1/2 Mile
MATERIAL SITE DATA FORM

LS+45

Site No. | Date
--------|--------
        | November 30, 1978

Material: Limestone
County: Allen

Location: NE 1/4, NE 1/4
Sec. 11
Twp. 26S
Range 18E

Owner: Raymond Francis & Pauline Ann Riebel
Rt. 1 Humboldt, KS

Nature of Deposit: Dry
Accessibility: Good
Site Located on Plate: V

Status of Site: Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>G.F.</th>
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CORRELATION DATA

Geological Age: Pennsylvania

Geological Source: Iola Limestone Fm. - Raytown Ls. Mbr.

Material Similar To:

Specific Gravity (Sat): (Dry)

Los Angeles Wear:

Absorption:

Wt. Cu. Fr.:

Str. Ratio:

Remarks:

Aerial Photo No. AL 14-136

Scale: 1 inch = 1/4 mile
MATERIAL SITE DATA FORM

LS+46

Date: November 30, 1978

Material: Limestone
County: Allen

Location: SE1/4, SE1/4 Sec. 32 Twp. 25S Range 19E

Owner: Andrew H. & Mary R. Setter
Address: R.2 Humboldt, KS 66748

Nature of Deposit: Dry
Accessibility: Good
Site Located on Plate: V

Status of Site: Open Materials Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1 1/2 | 3/4 | 3/8 | 1 | 2 | 3 | 6 | 10 | 30 | 50 | 100 | Wash | G.F. | LL | P.I. |
|-----------|---------------------------|---------------------|------------------|-------|----|----|---|---|---|---|----|----|----|----|-----|------|-----|----|-----|
|           |                           |                     |                  |       |   |   |   |   |   |   |    |    |    |    |     |      |     |    |     |

CORRELATION DATA

Geological Age: Pennsylvania

Geological Source: Iola Limestone Fm. - Raytown Ls, Mbr.

Material Similar To: ____________________________

Specific Gravity (Sat.) (Dry): __________________

Los Angeles Wear: _____________________________

Absorption: _____________________________
Soundness: _____________________________

Wt. Cu. Ft.: _____________________________
Str. Ratio: _____________________________

Remarks: _____________________________

Aerial Photo No. AL 14-111

Scale: 1 inch = ¼ mile
MATERIAL SITE DATA FORM

Site No.  LS+47
Date  November 30, 1978

Material  Limestone
County  Allen
Location  NW 1/4, NW 1/4
Sec.  29  Twp.  26S  Range  20E
Owner  Harold Whitaker  R.R. 2  Elsmore, KS  66732
Nature of Deposit  Dry
Accessibility  Good
Site Located on Plate  VI
Status of Site  Open Materials Site; Not Sampled

EXPLORATION DATA

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<th>Material at Bottom of Hole</th>
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CORRELATION DATA

Geological Age  Pennsylvanian
Geological Source  Dennis Limestone Fm. - Winterset Ls. Mbr.
Material Similar To
Specific Gravity (Sat.)  [Dry]
Los Angeles Wear
Absorption  Soundness
Wt. Cu. Ft.  Str. Ratio
Remarks  Abandoned

Aerial Photo No. AL 14-170

Scale: 1 inch = ½ Mile
MATERIAL SITE DATA FORM

LS+48

Site No.  Date  November 30, 1978
Pd

Material  County  Allen
Limestone

Location  Sec.  16  Twp.  26S  Range  20E
SE 1/4, NW 1/4

Owner  Name  Phone  Address
Gerald E. & LaVance Johnson  R.R.1  Elsmore, KS 66732

Nature of Deposit  Accessibility  Site Located on Plate
Dry  Good  VI

Status of Site  Open Materials Site; Not Sampled

EXPLORATION DATA

| Test | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1/2 | 1/4 | 3/8 | 1/4 | 4 | 8 | 16 | 30 | 50 | 100 | Wash | G.F. | L.L. | P.I. |
|------|---------------------------|--------------------|-------------------|-----|-----|-----|-----|---|---|----|----|----|----|------|------|-----|-----|-----|
|      |                           |                    |                   |     |     |     |     |   |   |     |    |    |     |       |      |     |     |     |
|      |                           |                    |                   |     |     |     |     |   |   |     |    |    |     |       |      |     |     |     |
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|      |                           |                    |                   |     |     |     |     |   |   |     |    |    |     |       |      |     |     |     |

CORRELATION DATA

Pennsylvanian

Geological Age

Dennis Limestone Fm. - Winterset Ls, Mbr.

Geological Source

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption

Soundness

Wt. Cu. Ft.

Str. Ratio

Remarks

Aerial Photo No. AL 14-156

Scale: 1 inch = 1/4 mile
**MATERIAL SITE DATA FORM**

**LS+49**

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**Material**

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**Owner**

| Caroline Ashby Colwell | R.R.1 | Moran, KS 66755 |

**Nature of Deposit**

| Dry | Good |

**Accessibility**

| VI |

**Status of Site**

| Open Materials Site; Not Sampled |

### EXPLORATION DATA

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### CORRELATION DATA

**Geological Age**

| Pennsylvanian |

**Geological Source**

| Dennis Ls. Fm. - Winterset Ls. Mbr. |

**Material Similar To**

|                               |

**Specific Gravity (Sat)**

| (Dry) | |

**Los Angeles Wear**

| Soundness |

**Absorption**

| Str. Ratio |

**Wt. Cu. Ft.**

| Abandoned |

**Remarks**

| Aerial Photo No. AL 14-121 |

Scale: 1 inch = 1/4 Mile
PROSPECTIVE MATERIALS SITES; NOT SAMPLED

LEGEND

======== Trail or lane

Road

Railroad

Hedge or trees

Name

Major streams

Intermittent streams

Pond or lake

□ Open materials sites; sampled

● Open materials sites; not sampled

▼ Prospective materials sites; sampled

● Prospective materials sites; not sampled

⊙ Center of section

□ Dwelling

➕ Cemetery

flags School

⇧ Church

boxed Town or city
MATERIAL SITE DATA FORM

Site No. CG+50
Qtu

Date November 30, 1978

Material Chert Gravel
County Allen

Location Sec. 22 Twp. 23 Range 18

Owner Phillip E. Monfort P.O. Box 567 216 W. St. Waitsburg, Wash

Nature of Deposit Dry
Accessibility Good

Site Located on Plate I 99361

Status of Site Prospective Materials Site; Not Sampled

EXPLORATION DATA

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CORRELATION DATA

Geological Age Quaternary
Geological Source Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.) (Dry)

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Aerial Photo No. AL 14-17

Scale: 1 inch = ¼ mile
MATERIAL SITE DATA FORM

Site No. CG+51
Material Chert Gravel
Location NW 34, NW 35 Sec. 35
Owner Willard Carlson

Date November 30, 1978
County Allen
Twp. 26
Range 17
Address Chanute, KS 66720
Nature of Deposit Dry
Accessibility Good

Status of Site Prospective Materials Site; Not Sampled

EXPLORATION DATA

| Test Hole | Material at Bottom of Hole | Depth of Overburden | Depth of Material | 1/8 | ⅜ | ⅝ | 1 | 4 | 8 | 16 | 30 | 50 | 100 | Wash 200 | G.F. | L.L. | P.I. |
|-----------|---------------------------|---------------------|-------------------|-----|---|---|---|---|---|----|----|----|----|------|------|-----|-----|-----|

CORRELATION DATA

Geological Age Quaternary
Geological Source Undifferentiated Quaternary Terrace
Material Similar To
Specific Gravity (Sat.) (Dry)
Los Angeles Wear
Absorption Soundness
Wt. Cu. Ft. Str. Ratio
Remarks

Aerial Photo No. AL 14-180
MATERIAL SITE DATA FORM

CG+52
Qtu

Site No. Date November 30, 1978

Chert Gravel
Material Allen

Country

SE1/4, NW1/4 Sec. 36 Twp. 26 Range 17
Location

Edward F. Offenbaker 903 S. Lincoln Chanute, KS
Owner name address

Dry Good Site Located on Plate V
Nature of Deposit Accessibility

Prospective Materials Site; Not Sampled Status of Site

EXPLORATION DATA

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CORRELATION DATA

Geological Age Quaternary

Geological Source Undifferentiated Quaternary Terrace

Material Similar To

Specific Gravity (Sat.) [Dry]

Los Angeles Wear

Absorption Soundness

Wt. Cu. Ft. Str. Ratio

Remarks

Aerial Photo No. AL 14-180

Scale: 1 inch = ¼ Mile

Neosho County
GLOSSARY


Absorption: Determined by tests performed in accordance with A.A.S.H.O. designation T85.

Aggregate: Any of several hard, inert, construction materials (such as sand, gravel, shells, slag, crushed stone, or other mineral material), or combinations thereof, used by mixing of various-sized fragments with a cementing or bituminous material to form concrete of bituminous mix.

Alluvium: A deposit of clay, silt, sand, or gravel deposited by a stream or other body of running water.

Aquifer: A body of rock that includes sufficient saturated permeable material to conduct ground water and to yield economically significant quantities of ground water to wells and springs.

Bedded: A characteristic of some rock units which shows distinct layers due to the manner in which they were deposited.

Chat: Crushed gangue remaining after the extraction of lead and zinc materials.

Chert: A dull, flint-like siliceous rock.

Construction aggregate: Processed rock that will meet standard specifications for concrete and bituminous construction.

Consolidated deposit: A deposit of limestone, shale, or sandstone. In Kansas, this term generally applies to rock older than Pliocene age.

Cross bedding: Term applied to sedimentary deposits whose bedding is inclined at various angles to the stratification.

Dolomitic limestone: A limestone in which the mineral dolomite (CaMg(CO3)2) is conspicuous but calcite is more abundant.

Exposure patterns: Topographic features formed on the land surface by the exposure of geologic units.

Fine sand: An aggregate of consolidated minerals or rock particles, the dimensions of which are less than 0.05 of a millimeter and not more than 0.42 of a millimeter. The term refers to size of grain and not to composition; however, since most sands are composed of quartz and feldspar, and the term is used without qualifications, a siliceous composition is implied.
**Formation:** A persistent body of rocks, having easily recognizable upper and lower boundaries that can be traced in the field without recourse to detailed paleontologic or petrologic analysis, and large enough to be represented on a geologic map as a practical or convenient unit for mapping and description.

**Fossil:** Any remains, trace, or imprint of a plant or animal that has been preserved, by natural processes, in the Earth's crust since some past geologic time.

**Geologic Era:** Largest unit of geologic time (e.g. Paleozoic, Mesozoic and Cenozoic).

**Geologic process:** Term pertaining to erosion, deposition, and diastrophic methods by which the Earth's surface has been shaped.

**Geologic system:** A term that refers to rocks or deposits that were laid down during a particular geologic period (e.g. the Pennsylvanian, Permian, and Quaternary).

**Geologic unit:** A general term used to denote a geologic formation, member, or unconsolidated deposit.

**Gradation factor:** The value obtained by adding the percentages of material retained on the 1½", 3/4", 3/8", 4, 8, 16, 30, 50 and 100 sieves, respectively and dividing the sum by 100.


**Ground-water:** That part of the subsurface water that is the zone of saturation, including underground streams.

**Hiatus:** A break or interruption in the continuity of the geologic record.

**Igneous rocks:** Rocks produced from molten or partly molten material.

**Light type surfacing:** A surface course constructed from aggregate which is not bound by water, cement, or bituminous material.

**Liquid limit:** The water-content boundary between the semiliquid and the plastic states of sediment. Determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

**Lithology:** Physical properties of rocks such as grain size, mineral content, and color.

**Los Angeles wear:** Determined by tests performed in accordance with A.A.S.H.O. designation T96 as modified by section 1001 of the State Highway Commission of Kansas Standard Specifications, 1973 edition.

**Marine deposits:** Deposits laid down in a sea.

**Material source bed:** A geologic unit from which construction material is being or can be produced.
Member: A division of a formation, generally of distinct lithologic character or of only local extent.

Oolitic limestone: A textural term for rock containing small, rounded grains that resemble fish eggs.

Open materials site: A pit or quarry from which material is produced for possible construction purposes.

Physiographic division: A division of the state, based on general geologic and/or geographic features.

Plasticity index: The water-content range of a soil at which it is plastic; determined by tests performed in accordance with the Kansas Test Method KT-10 of the State Highway Commission of Kansas Construction Manual, Part V, 1969 edition.

Pleistocene Series: Deposits laid down during the Pleistocene Epoch.

Prospective materials site: A location where the geologic conditions are favorable for finding and producing construction aggregate.

Residual soil: In place soil material resulting from the decomposition of rock.


Specific gravity: Determined by tests performed in accordance with A.A.S.H.O. designation T84 for fine aggregate and T85 for coarse aggregate.

Stereogram: A stereoscopic pair of photographs correctly oriented and mounted for viewing with a stereoscope.

Stratigraphic position: The vertical position of a geologic unit in relation to other geologic units.

Stream meander: One of a series of beds or curves in the course of a stream caused by lateral movement of a stream in its valley.

Strength ratio: Determined by tests performed in accordance with A.A.S.H.O. designation T19.

Unconsolidated deposits: A sediment that is loosely arranged or unstratified, or whose particles are not cemented together, occurring either at the surface or at depth.

Vadose: Water above the permanent groundwater level.

Wash: (Material passing the No. 200 sieve). Determined by tests performed in accordance with A.A.S.H.O. designation T11.

Weathering: The disintegration (physical change) or decomposition (chemical change) of rock by atmospheric agents.

Weight per cubic foot: Determined by tests performed in accordance with A.A.S.H.O. designation T19.
Selected References


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** In Progress  

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