

# Map Unit Description

Weld County, Colorado, Southern Part

## 3 Aquolls and Aquepts, gravelly substratum

### Setting

Elevation: 4000 to 7200 feet  
Mean annual precipitation: 12 to 18 inches  
Mean annual air temperature: 45 to 55 degrees F  
Frost-free period: 80 to 155 days

### Composition

Aquolls and similar soils: 55 percent  
Aquepts, gravelly substratum, and similar soils: 30 percent

### Description of Aquolls

#### Setting

Landform: Swales, streams, flood plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Recent alluvium

#### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Poorly drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.20 to 2.00 in/hr)  
Depth to water table: About 6 to 48 inches  
Frequency of flooding: Frequent  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 8.0 inches)

#### Interpretive Groups

Land capability (non irrigated): 6w  
Ecological site: Salt Meadow (R067BY035CO)

#### Typical Profile

0 to 48 inches: loam  
48 to 60 inches: gravelly sand

### Description of Aquepts, gravelly substratum

#### Setting

Landform: Stream terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Recent alluvium

#### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Poorly drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or very high (0.57 to 19.98 in/hr)  
Depth to water table: About 6 to 24 inches  
Frequency of flooding: Frequent  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.6 inches)

#### Interpretive Groups

Land capability classification (irrigated): 6w  
Land capability (non irrigated): 6w  
Ecological site: Salt Meadow (R067BY035CO)

#### Typical Profile

0 to 48 inches: variable  
48 to 60 inches: very gravelly sand

# Map Unit Description

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68 Ustic Torriorthents, moderately steep

## Setting

Elevation: 4450 to 5100 feet  
Mean annual precipitation: 10 to 16 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 120 to 160 days

## Composition

Ustic torriorthents and similar soils: 85 percent

## Description of Ustic torriorthents

### Setting

Landform: Escarpments, breaks  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Gravelly alluvium

### Properties and Qualities

Slope: 9 to 15 percent  
Drainage class: Excessively drained  
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 1.8 inches)

### Interpretive Groups

Land capability (non irrigated): 7s

### Typical Profile

0 to 10 inches: gravelly sand  
10 to 60 inches: gravelly sand

# Map Unit Description

Weld County, Colorado, Southern Part

76 Vona sandy loam, 1 to 3 percent slopes

## Setting

Elevation: 4600 to 5200 feet  
Mean annual precipitation: 13 to 15 inches  
Mean annual air temperature: 48 to 55 degrees F  
Frost-free period: 130 to 160 days

## Composition

Vona and similar soils: 85 percent  
Minor components: 1 percent

## Description of Vona

### Setting

Landform: Terraces, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium and/or eolian deposits

### Properties and Qualities

Slope: 1 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.8 inches)

### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4e  
Ecological site: Sandy Plains (R067BY024CO)

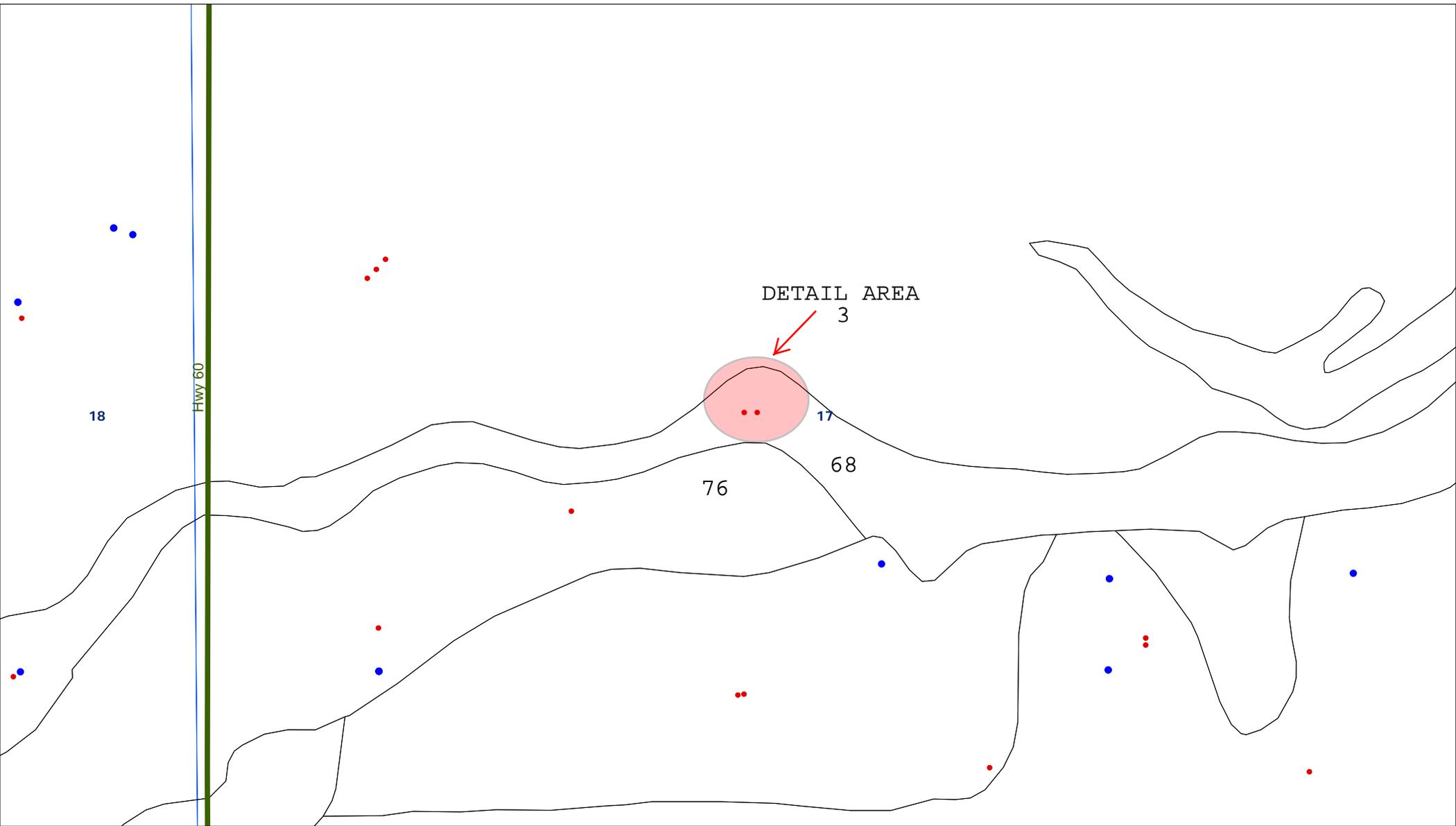
### Typical Profile

0 to 6 inches: sandy loam  
6 to 28 inches: fine sandy loam  
28 to 60 inches: sandy loam

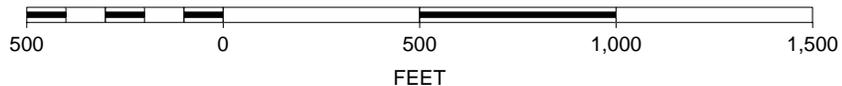
## Minor Components

Aquic haplustolls  
Percent of map unit: 1 percent  
Landform: Swales

3, Aquolls and Aquents, gravelly substratum, 0 to 3% slopes; 68, Ustic Torriorthents, moderately steep, 9 to 15% slopes; 76, Vona sandy loam, 1 to 3 percent slopes



SCALE 1 : 5,831



K. P. Kauffman Company, Inc.  
Front Range #11-17 well pad soils map  
NESW section 17-T4N-R66W  
Weld Co., Colorado

