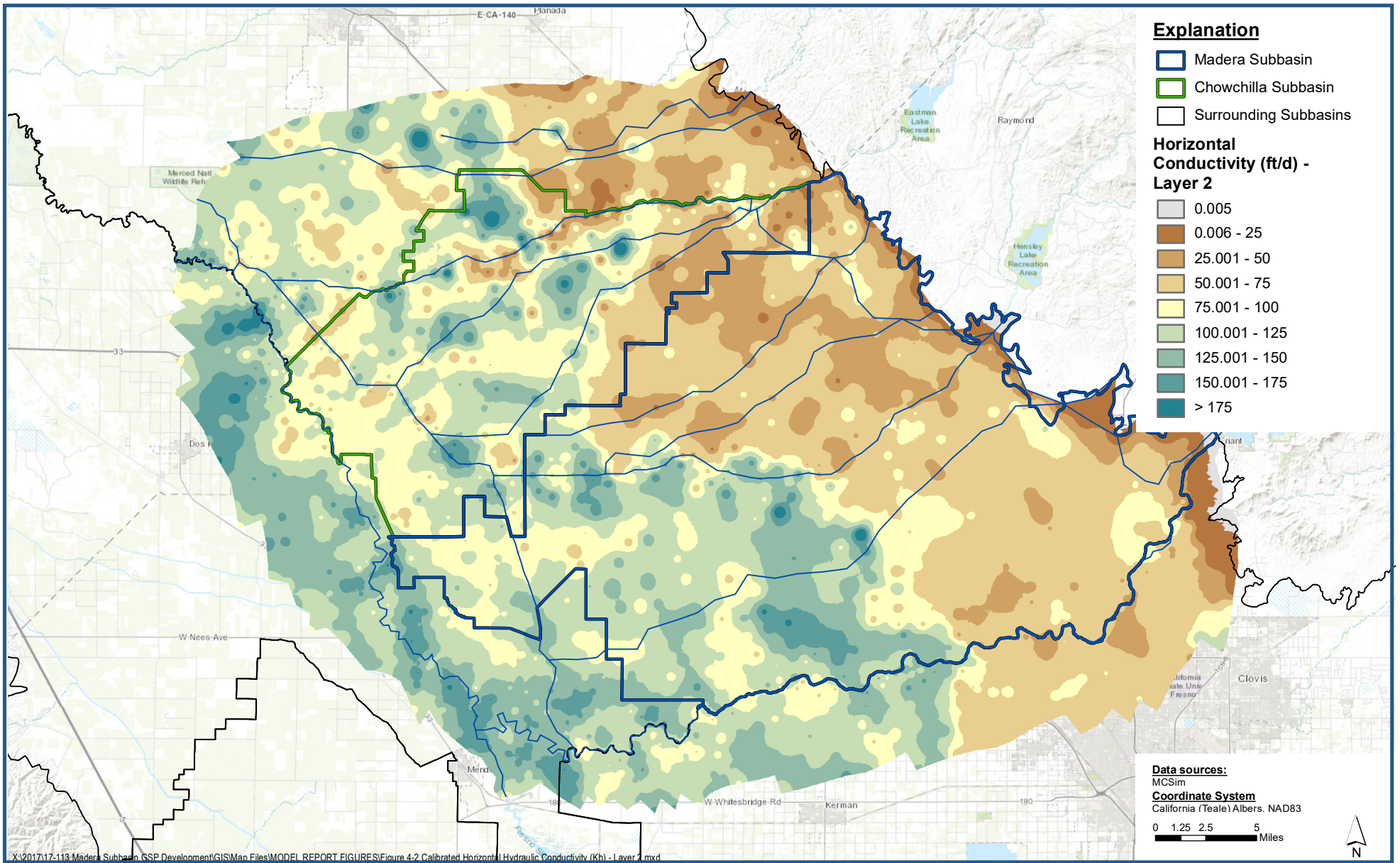


### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 1

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

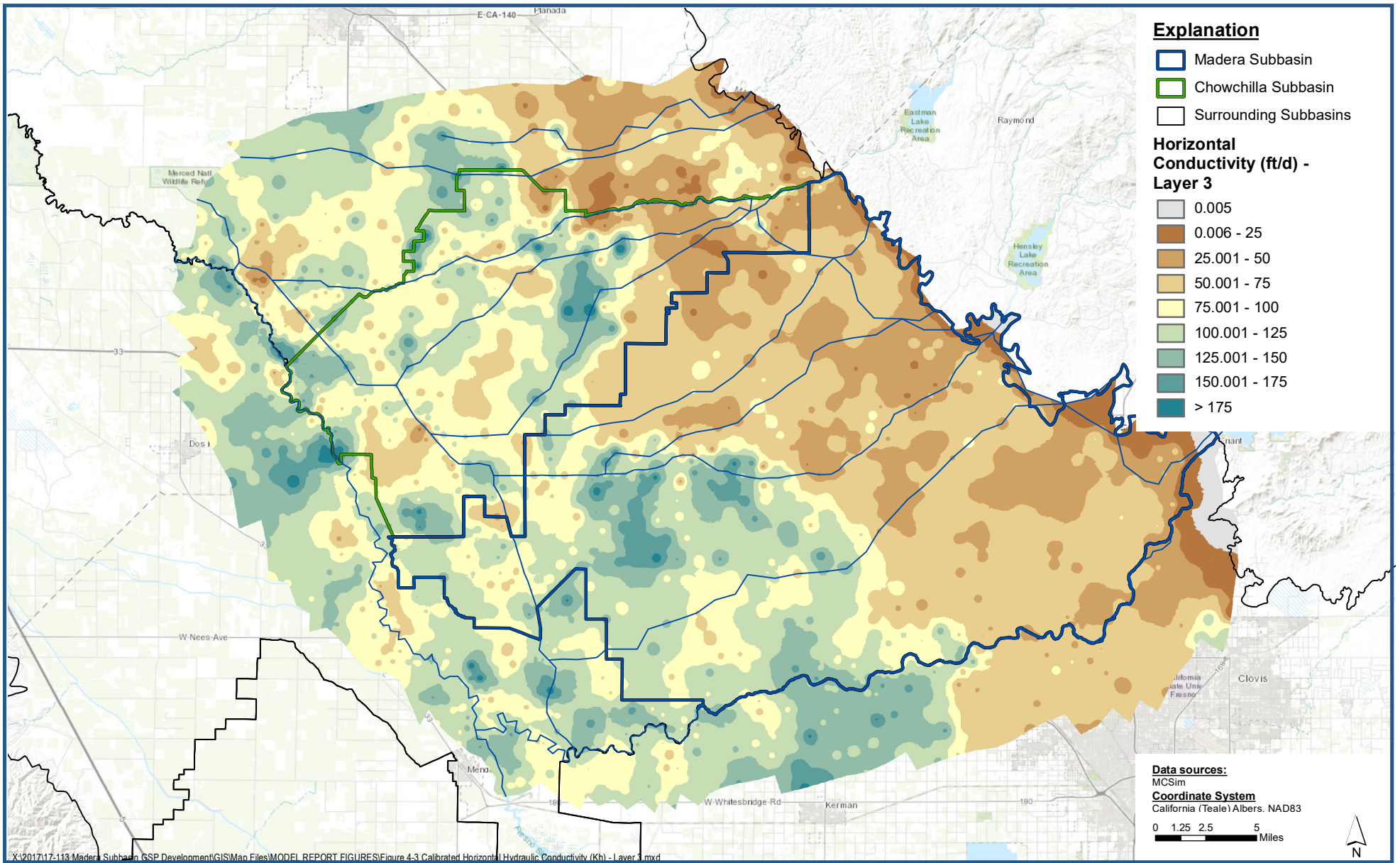
Figure 4-1



### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 2

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

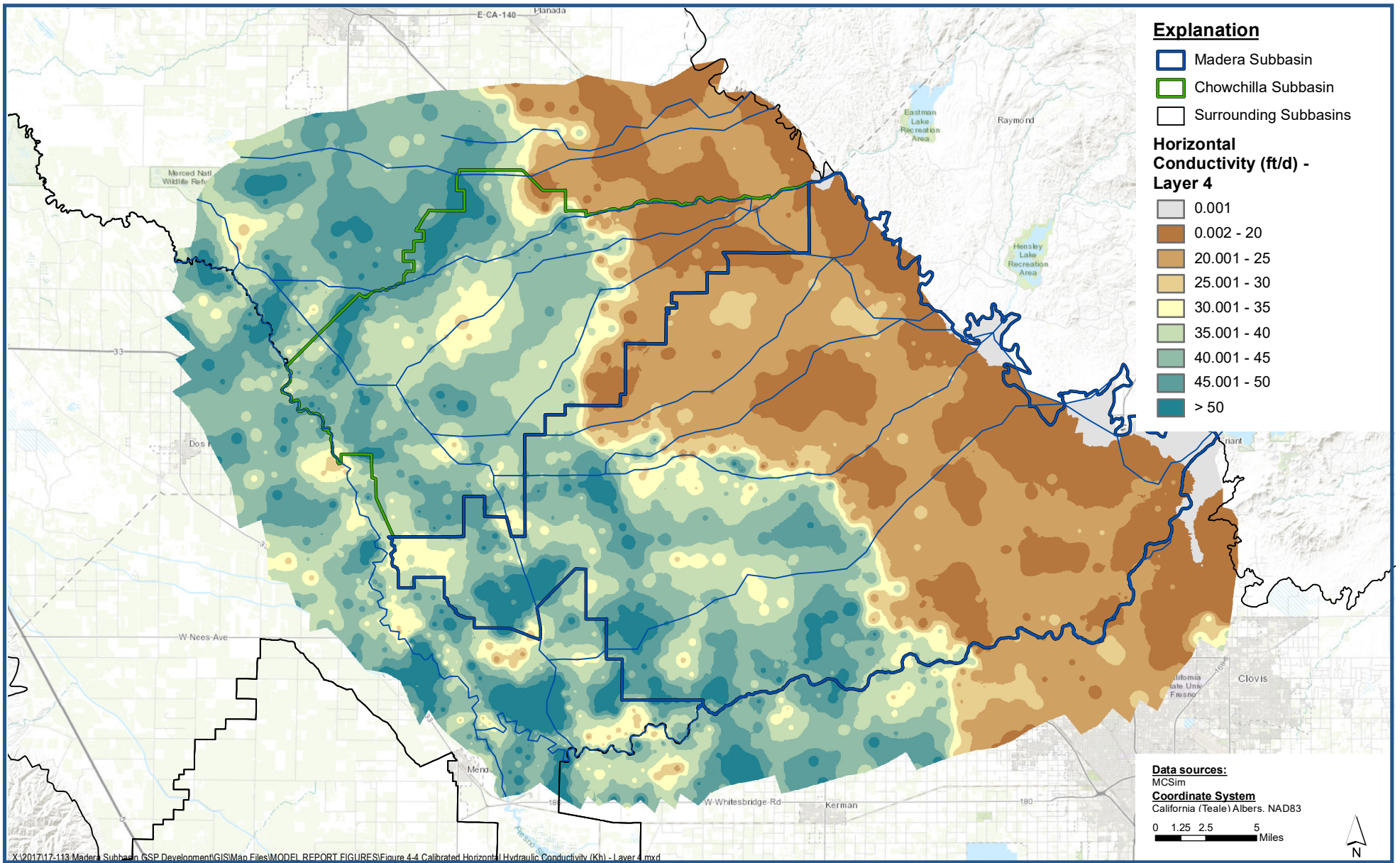
Figure 4-2



### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 3

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

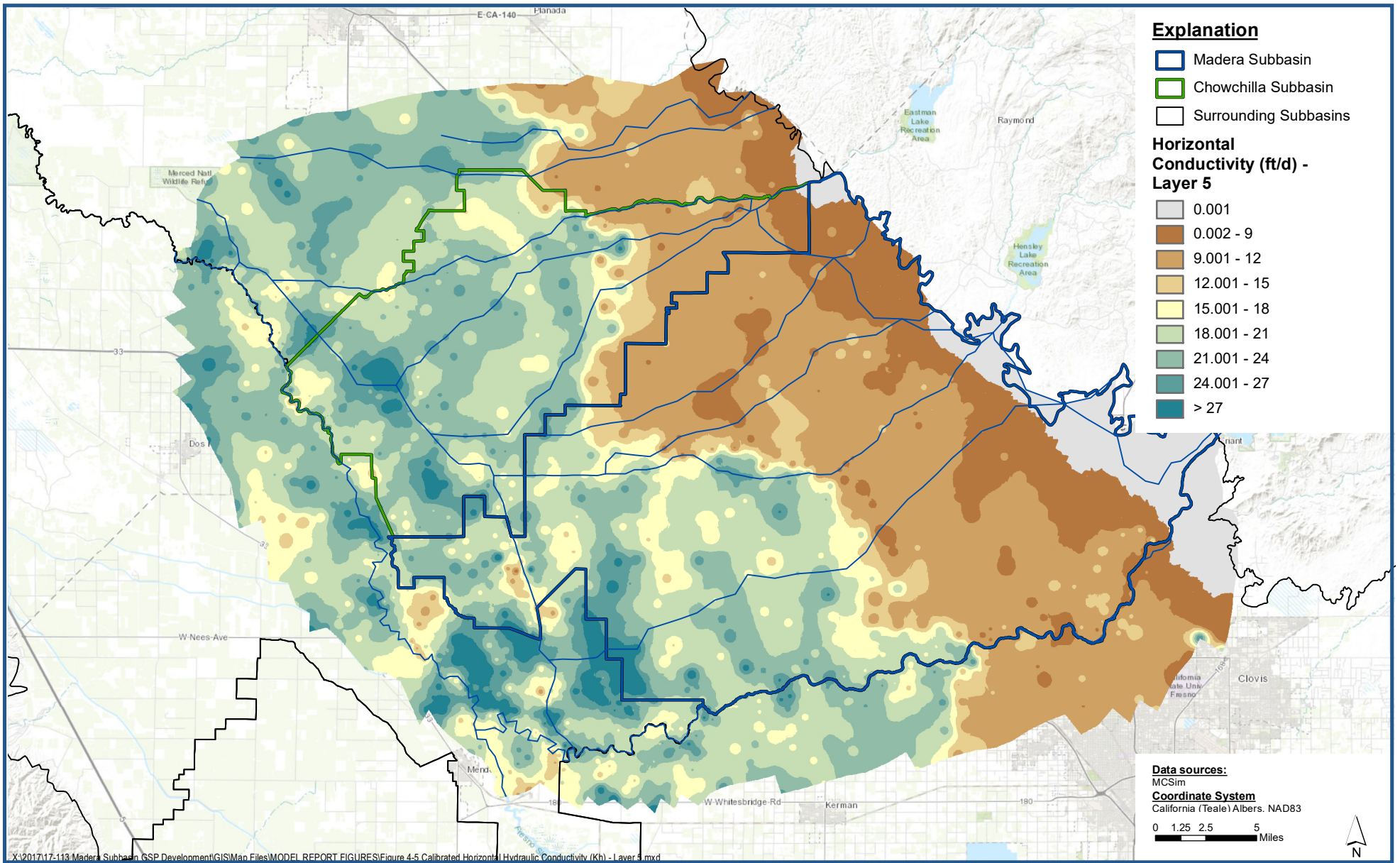
Figure 4-3



### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 4

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

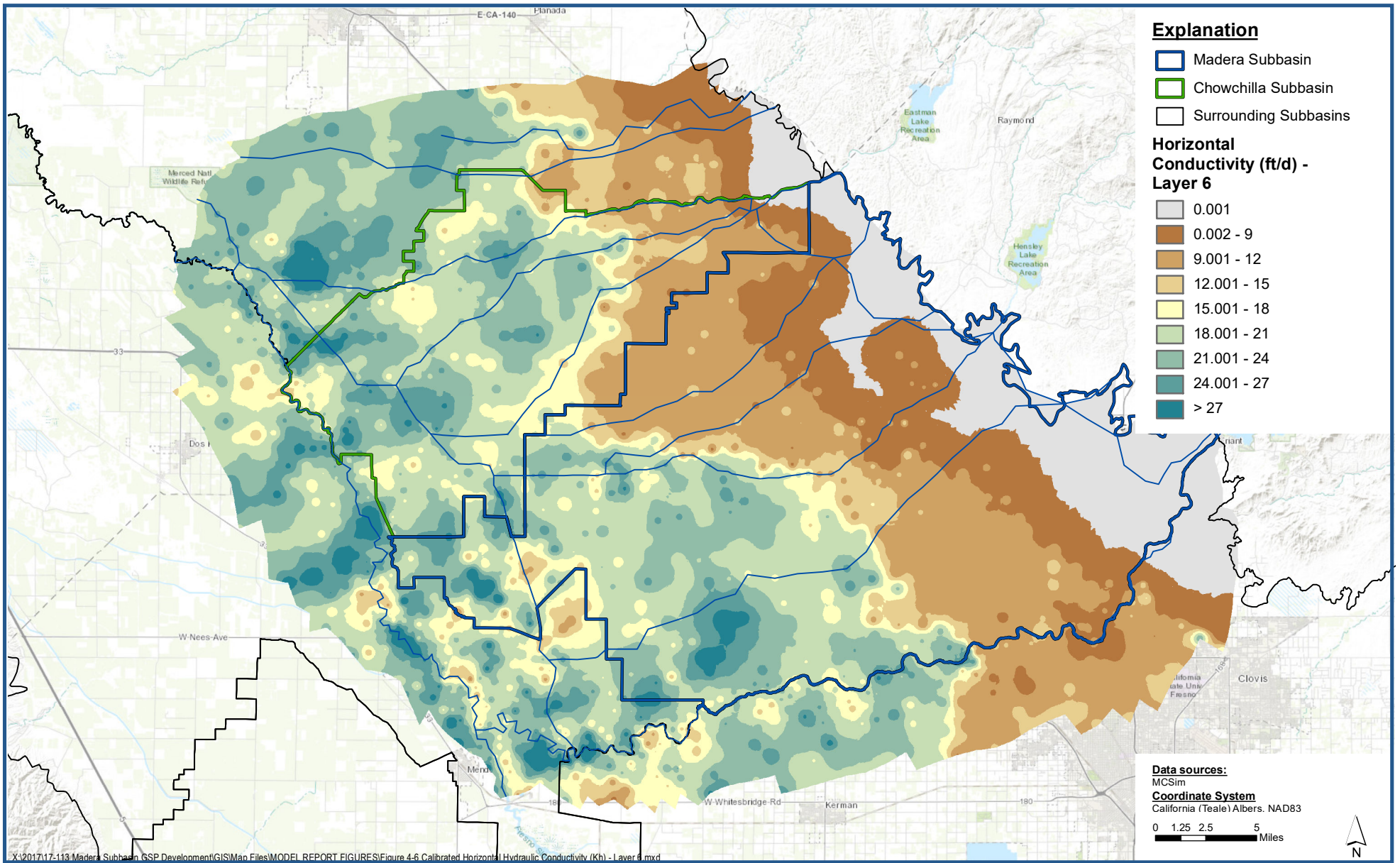
Figure 4-4



### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 5

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

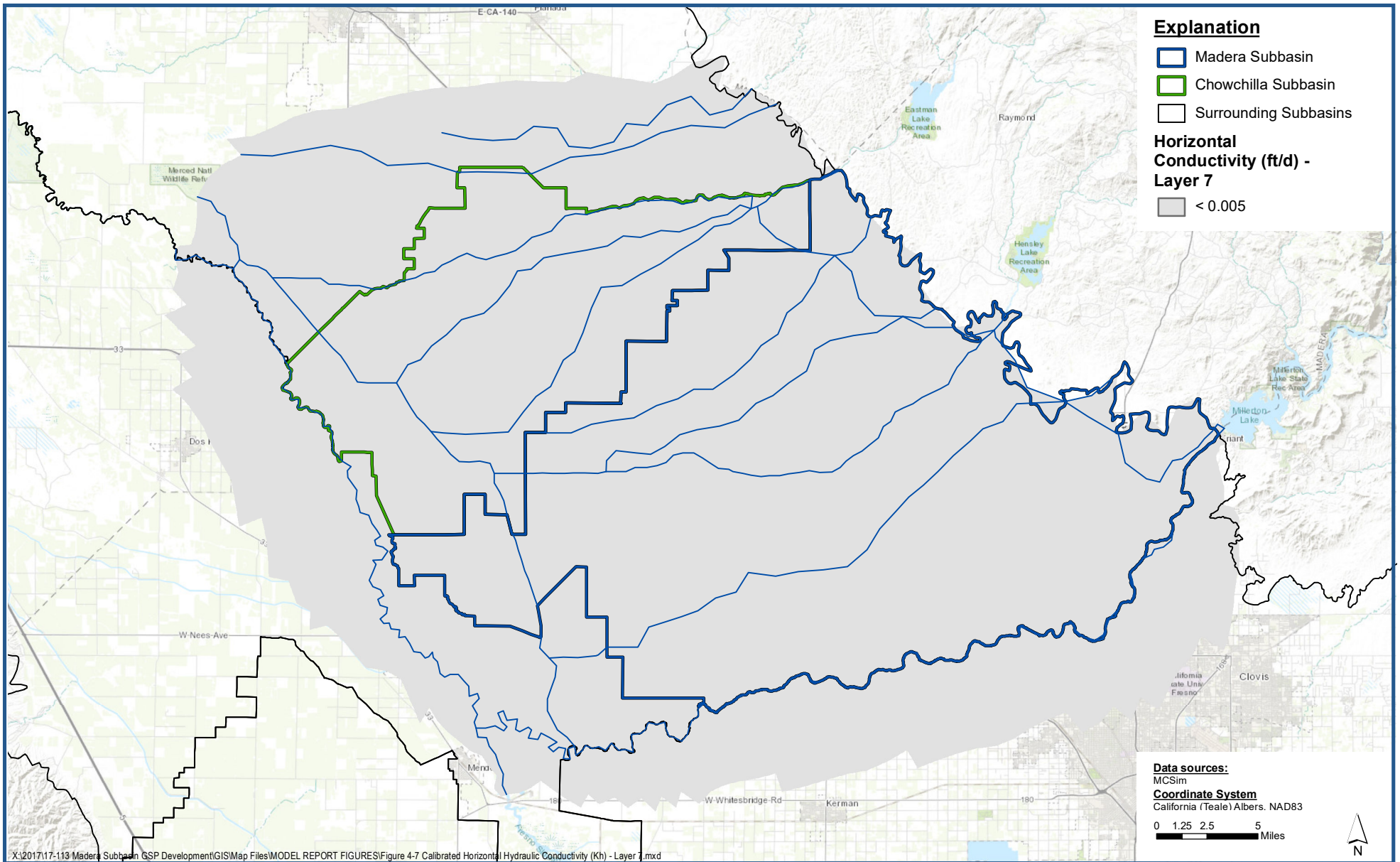
Figure 4-5



### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 6

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

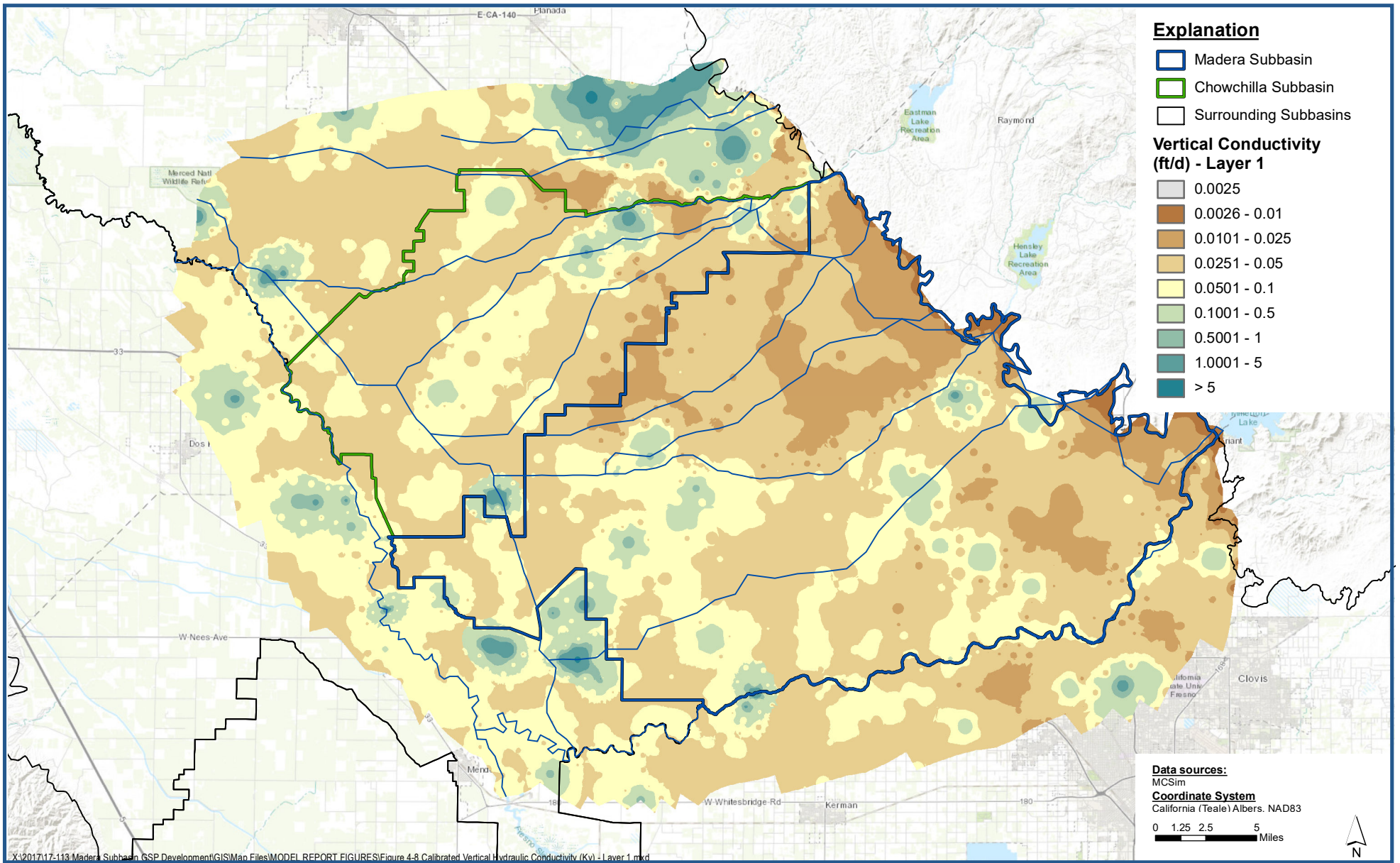
Figure 4-6



### Calibrated Horizontal Hydraulic Conductivity (Kh) - Layer 7

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-7

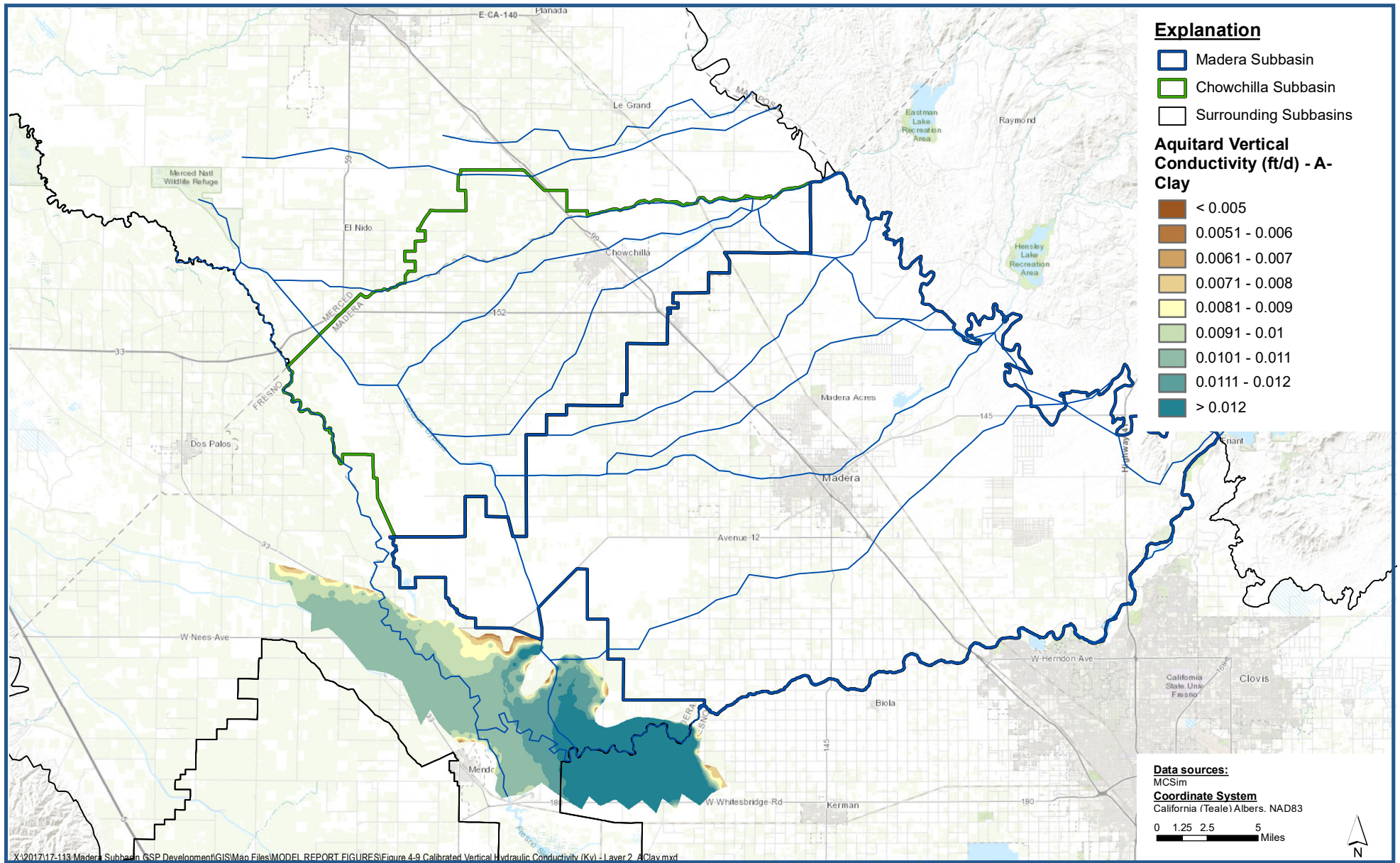


### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 1

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-8

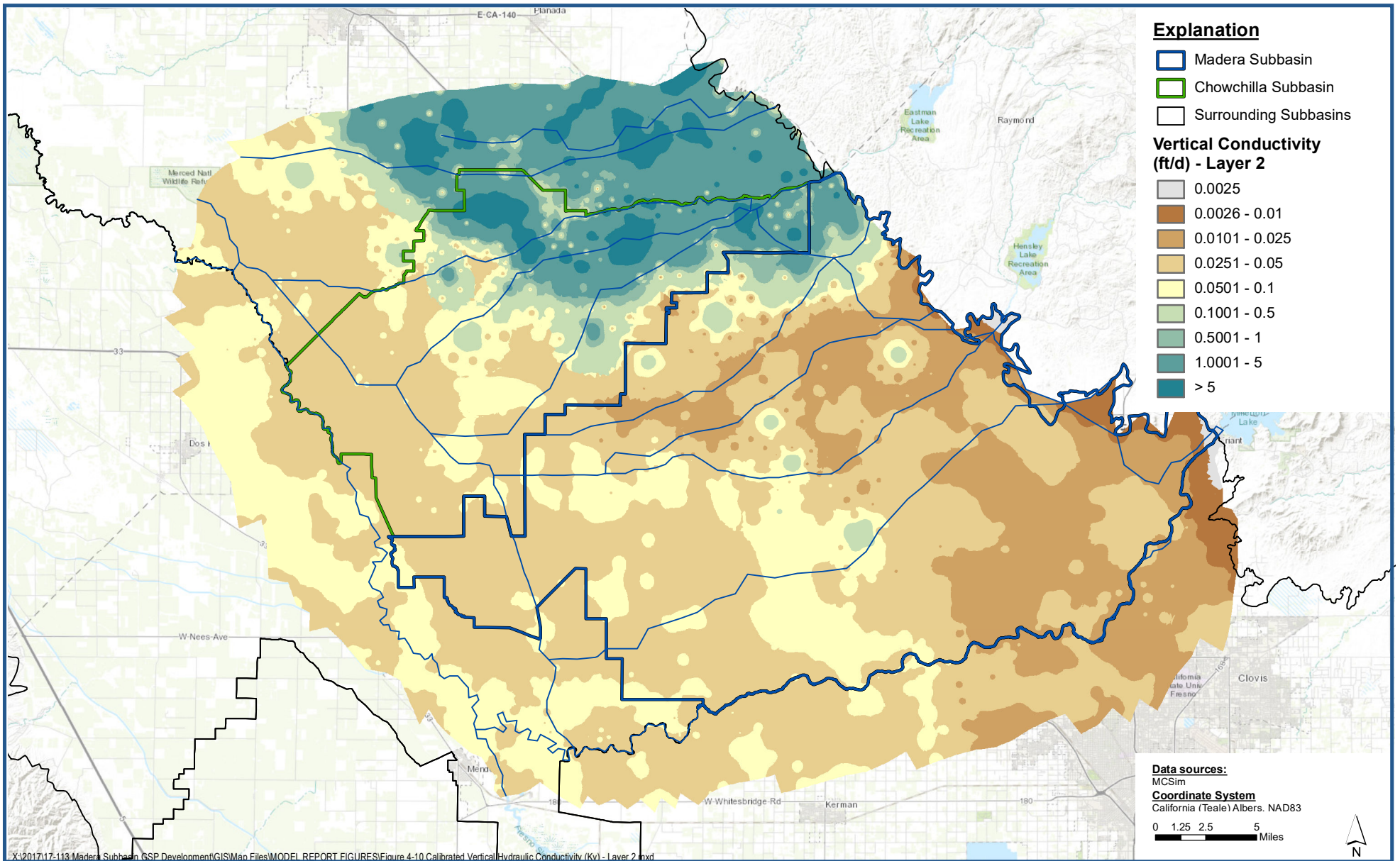




### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 2 Aquitard (A-Clay)

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

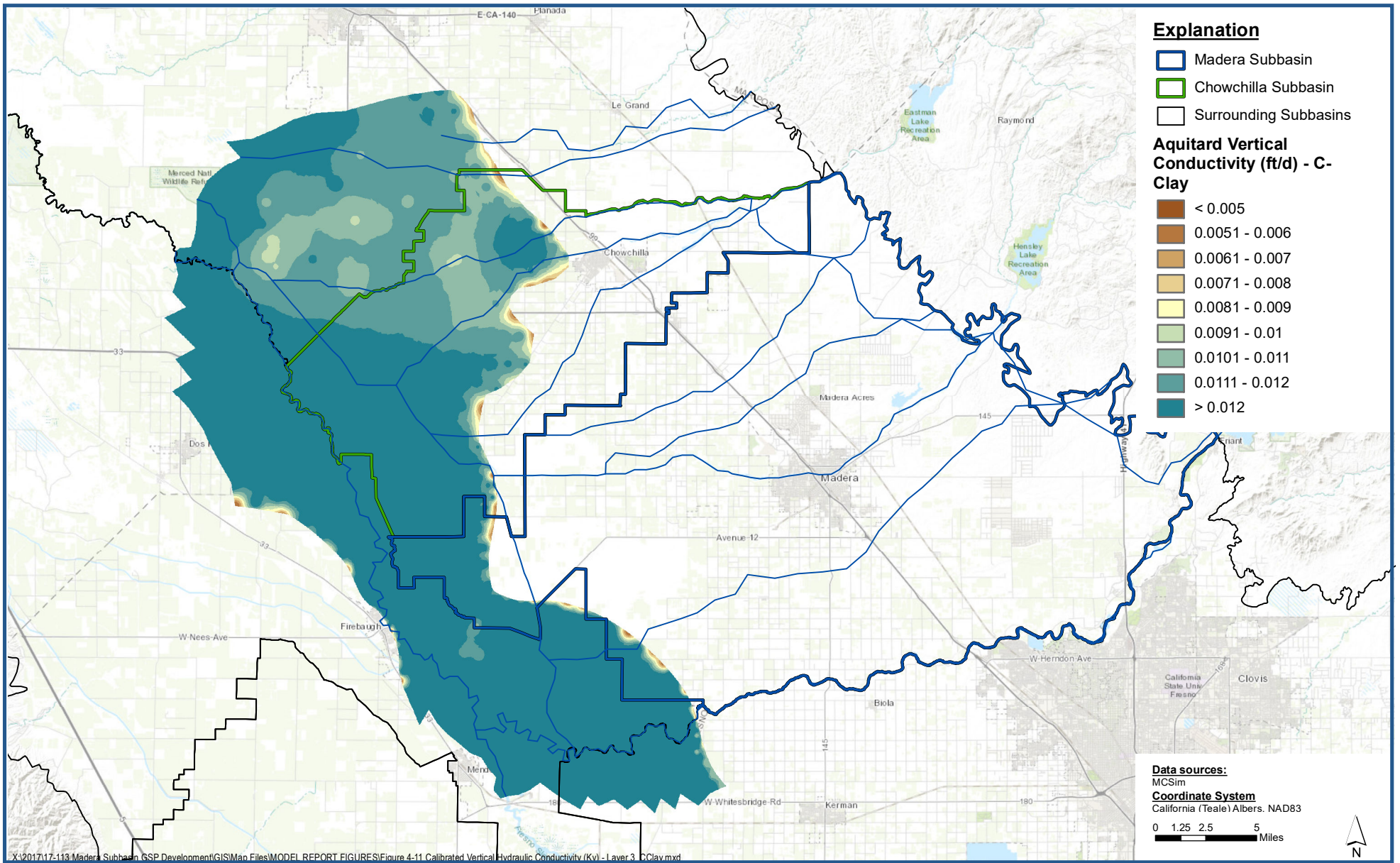
Figure 4-9



### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 2

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

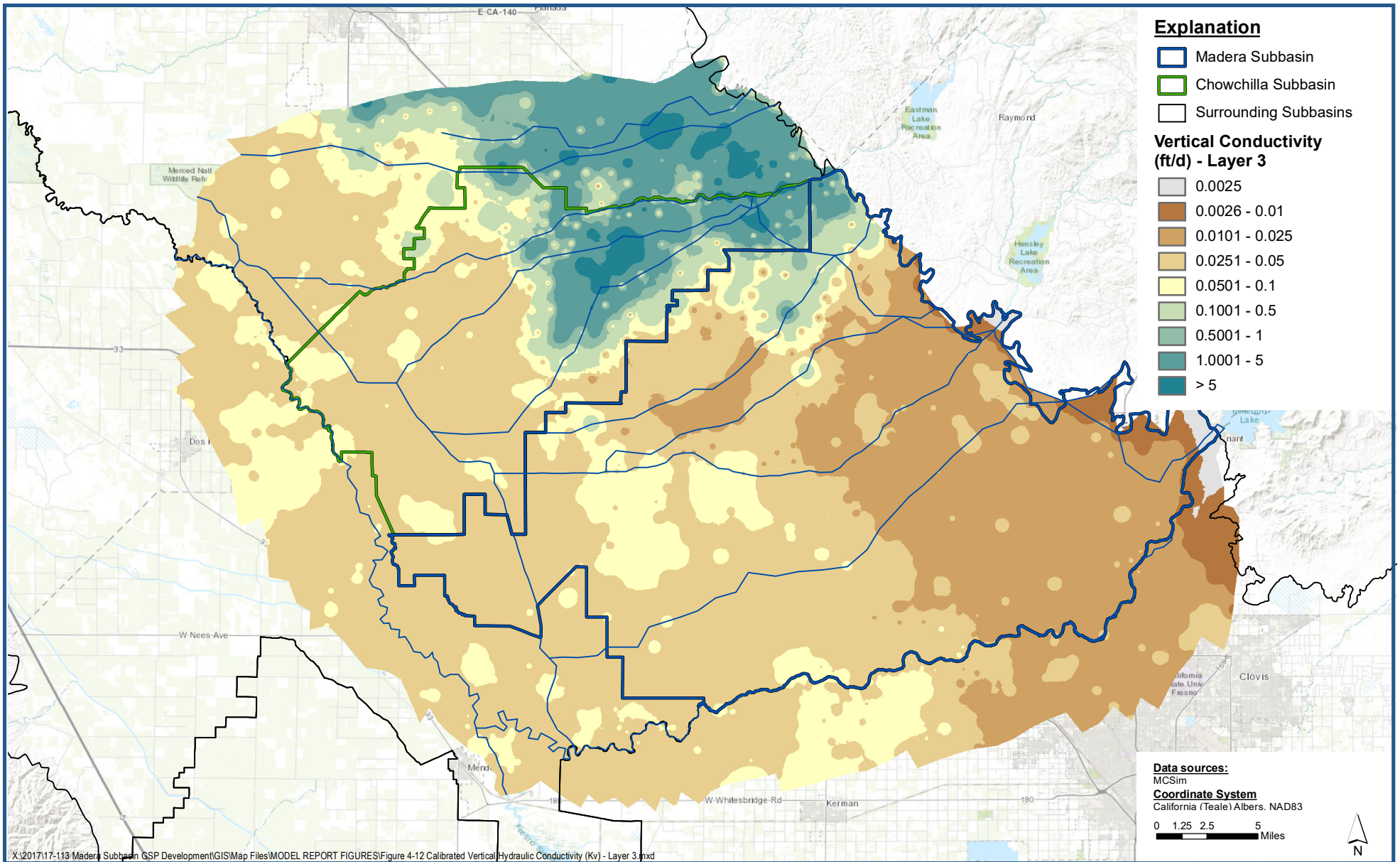
Figure 4-10



**Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 3 Aquitard (C-Clay)**

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

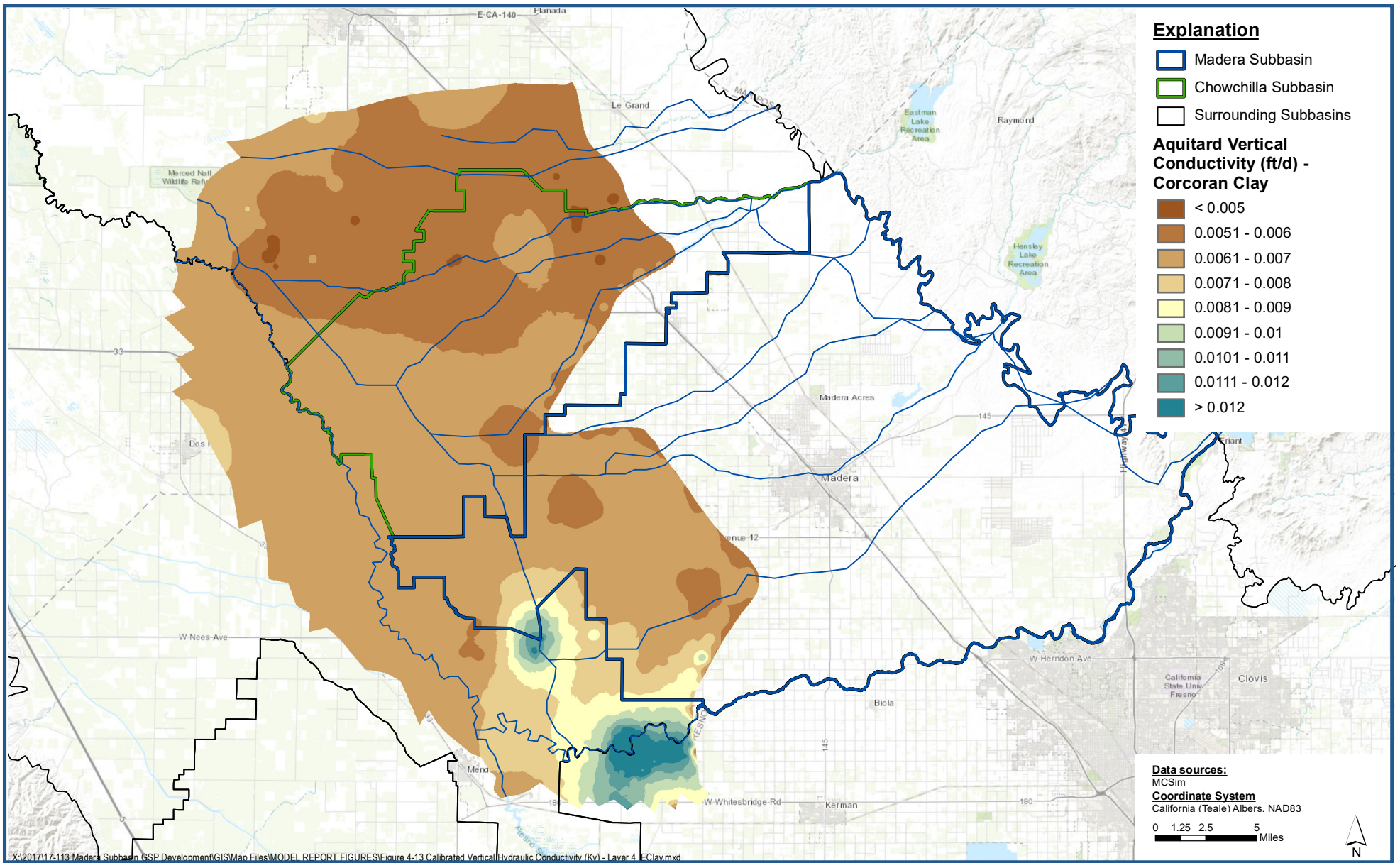
**Figure 4-11**



### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 3

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

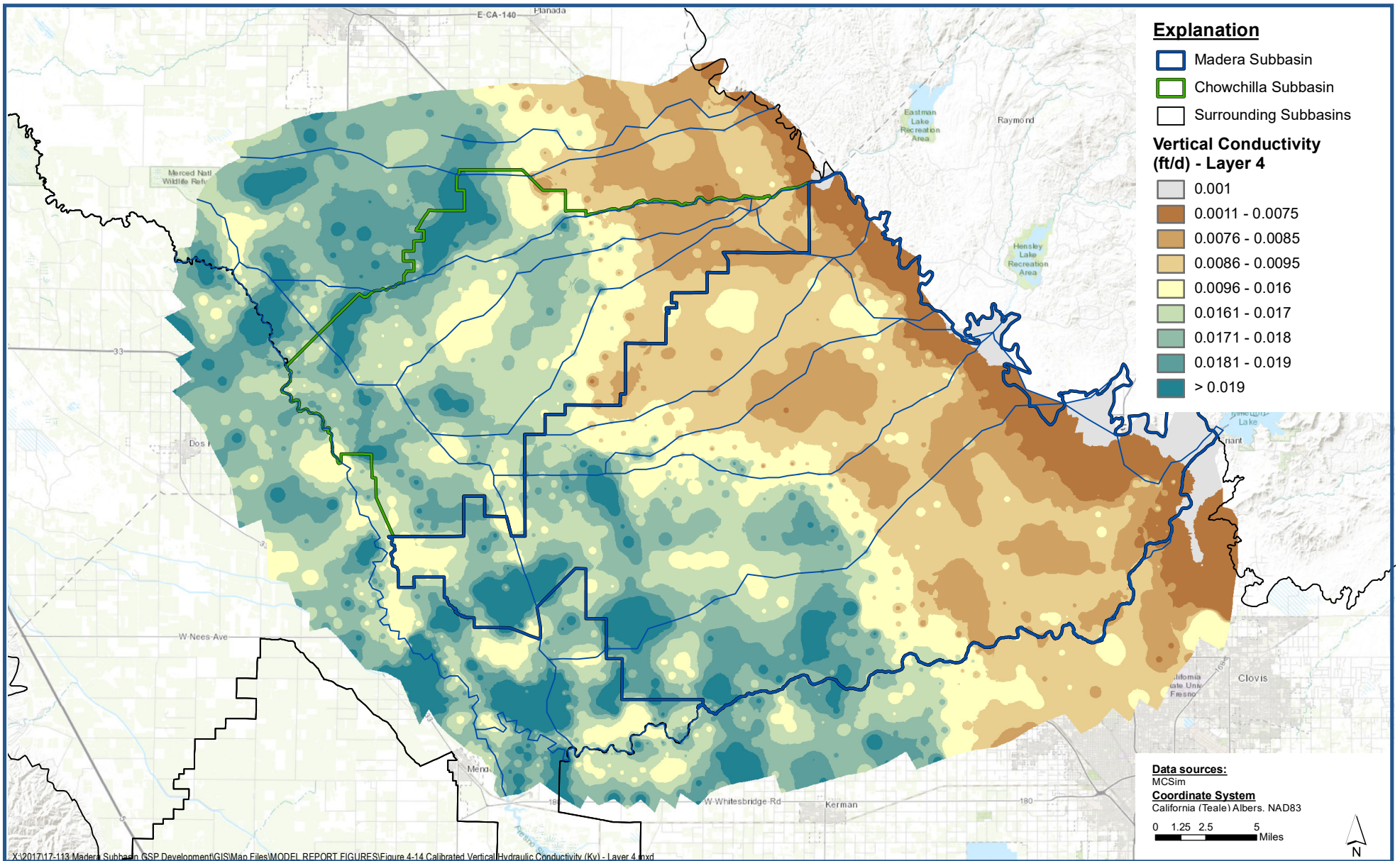
Figure 4-12



### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 4 Aquitard (Corcoran Clay)

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

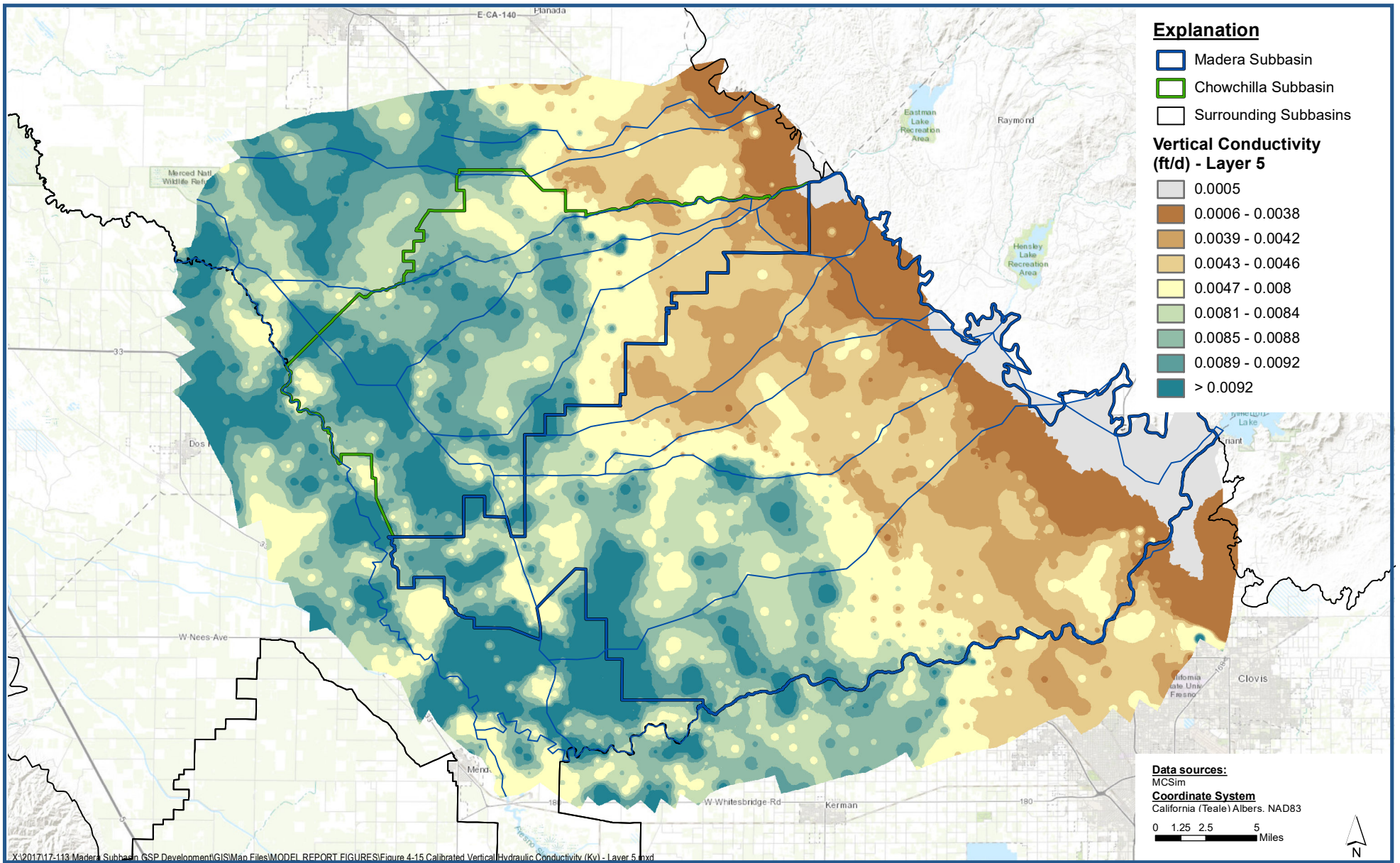
Figure 4-13



### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 4

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

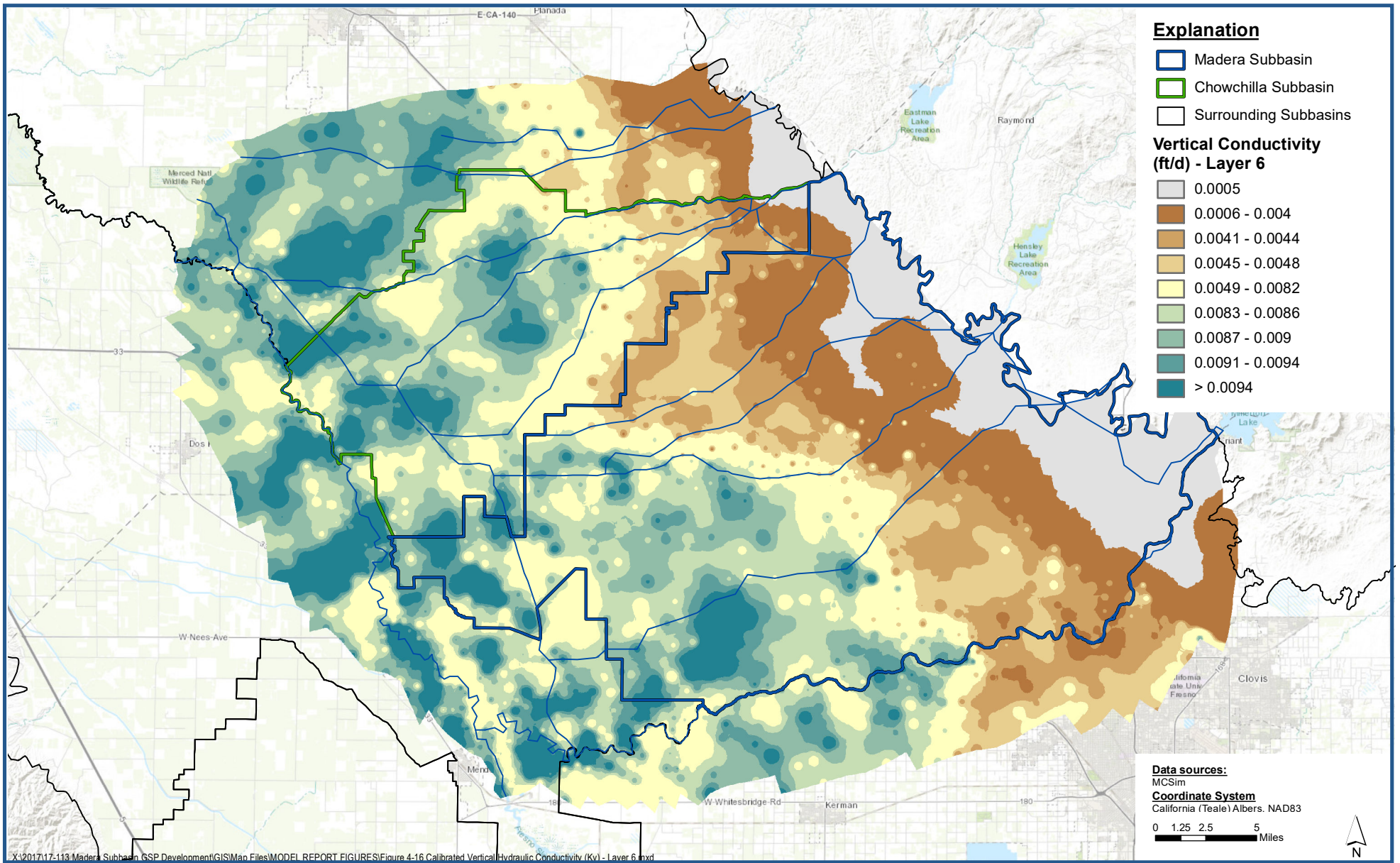
Figure 4-14



### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 5

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-15

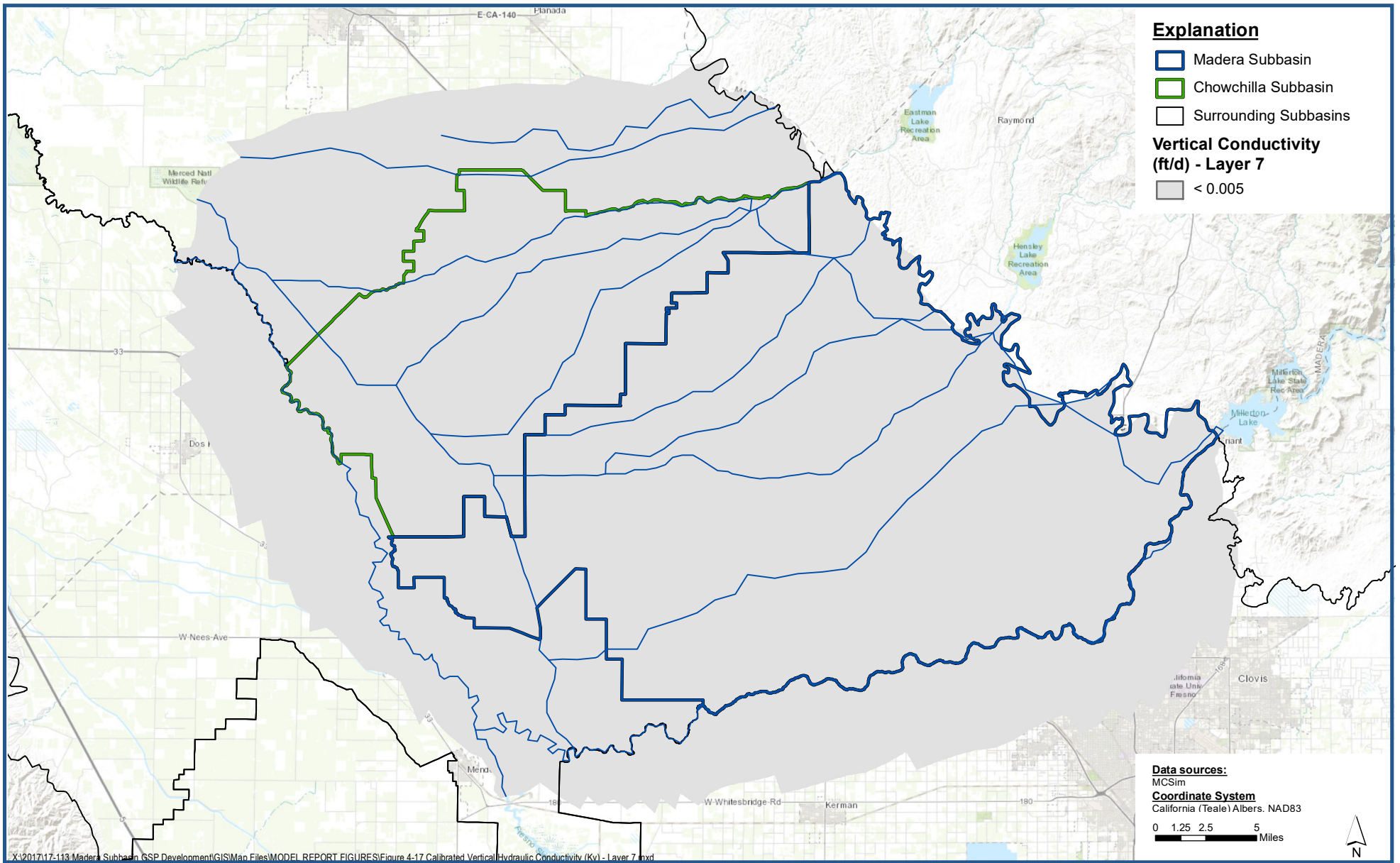


### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 6

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-16

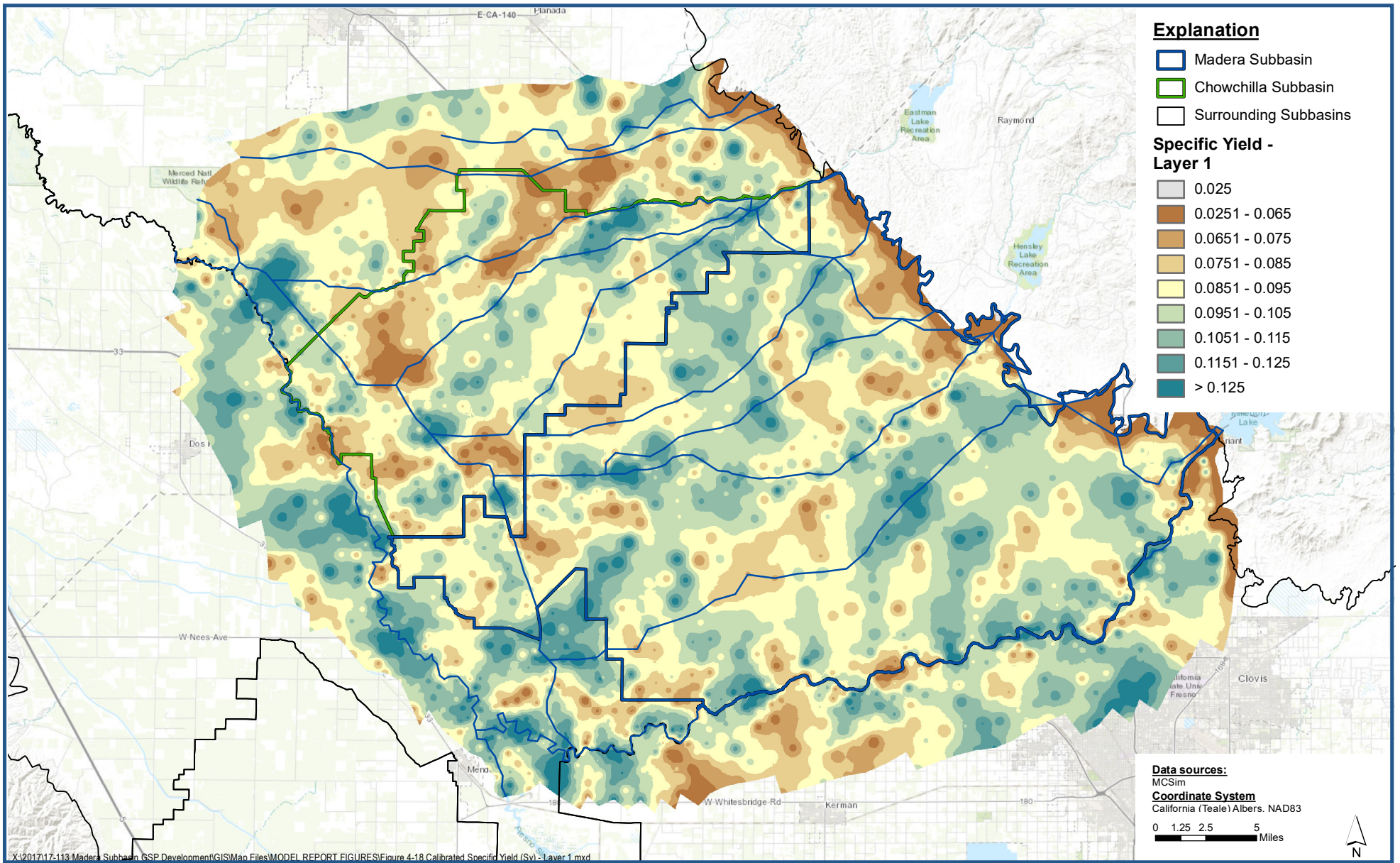




### Calibrated Vertical Hydraulic Conductivity (Kv) - Layer 7

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

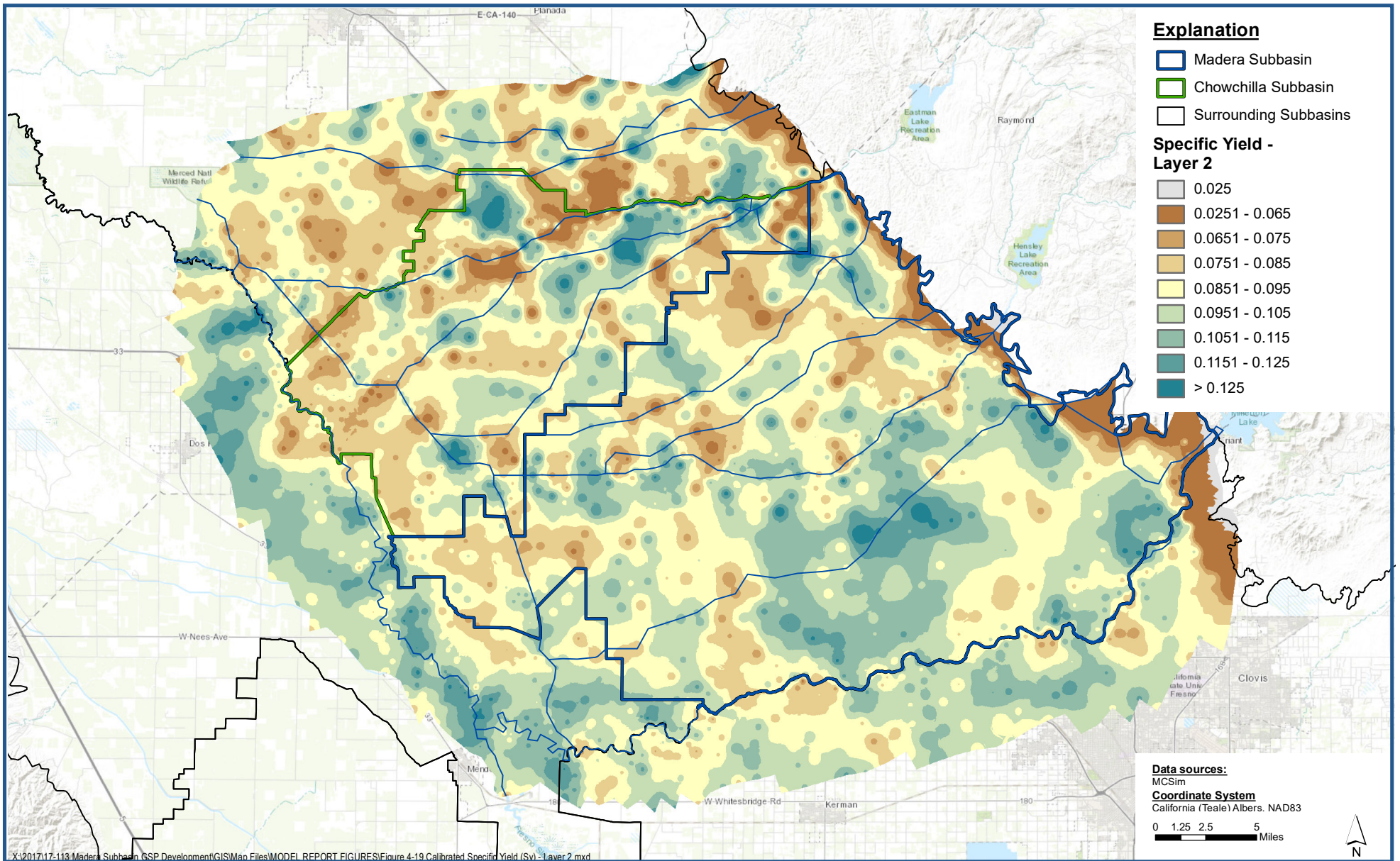
Figure 4-17



### Calibrated Specific Yield (Sy) - Layer 1

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

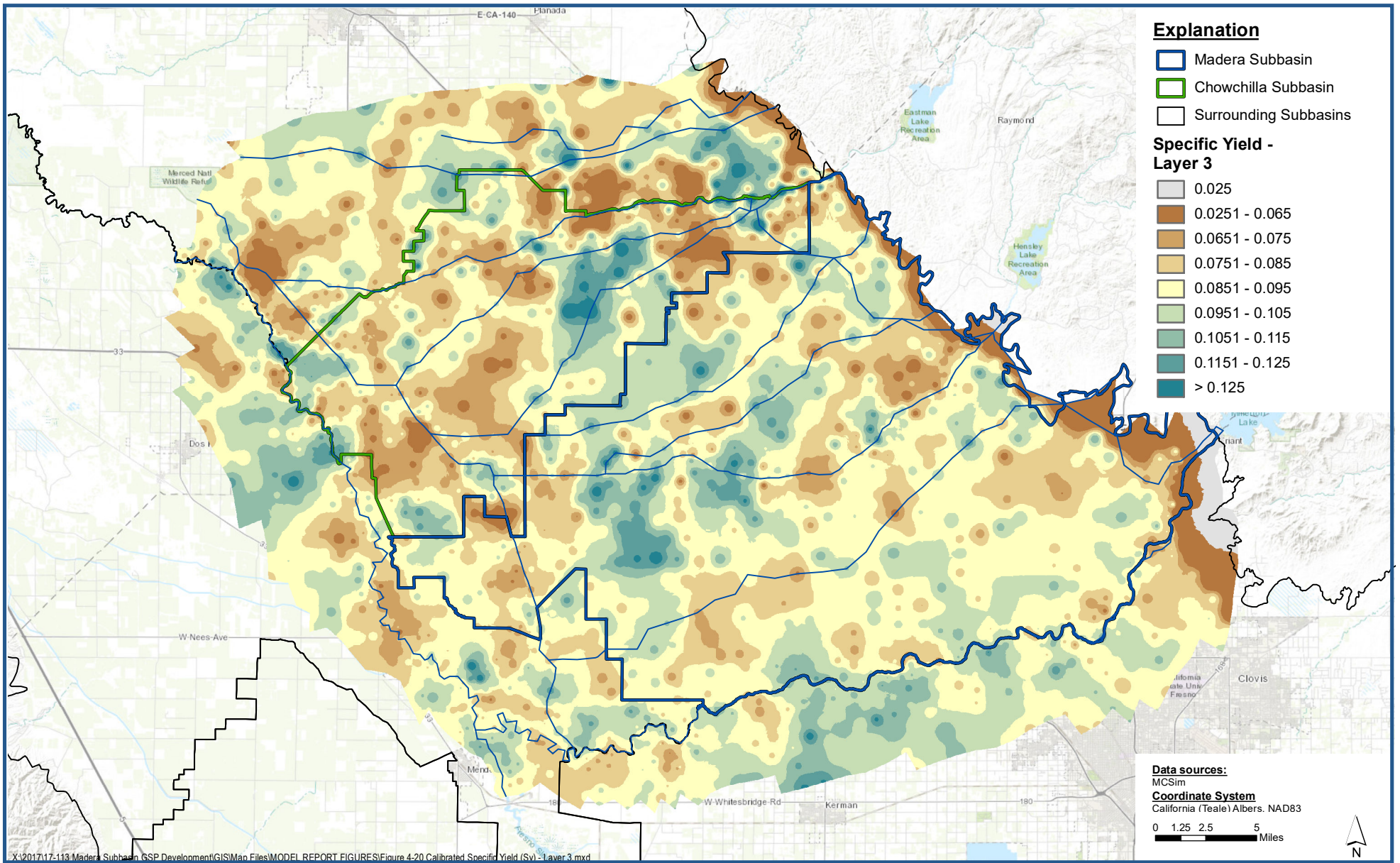
Figure 4-18



### Calibrated Specific Yield (Sy) - Layer 2

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

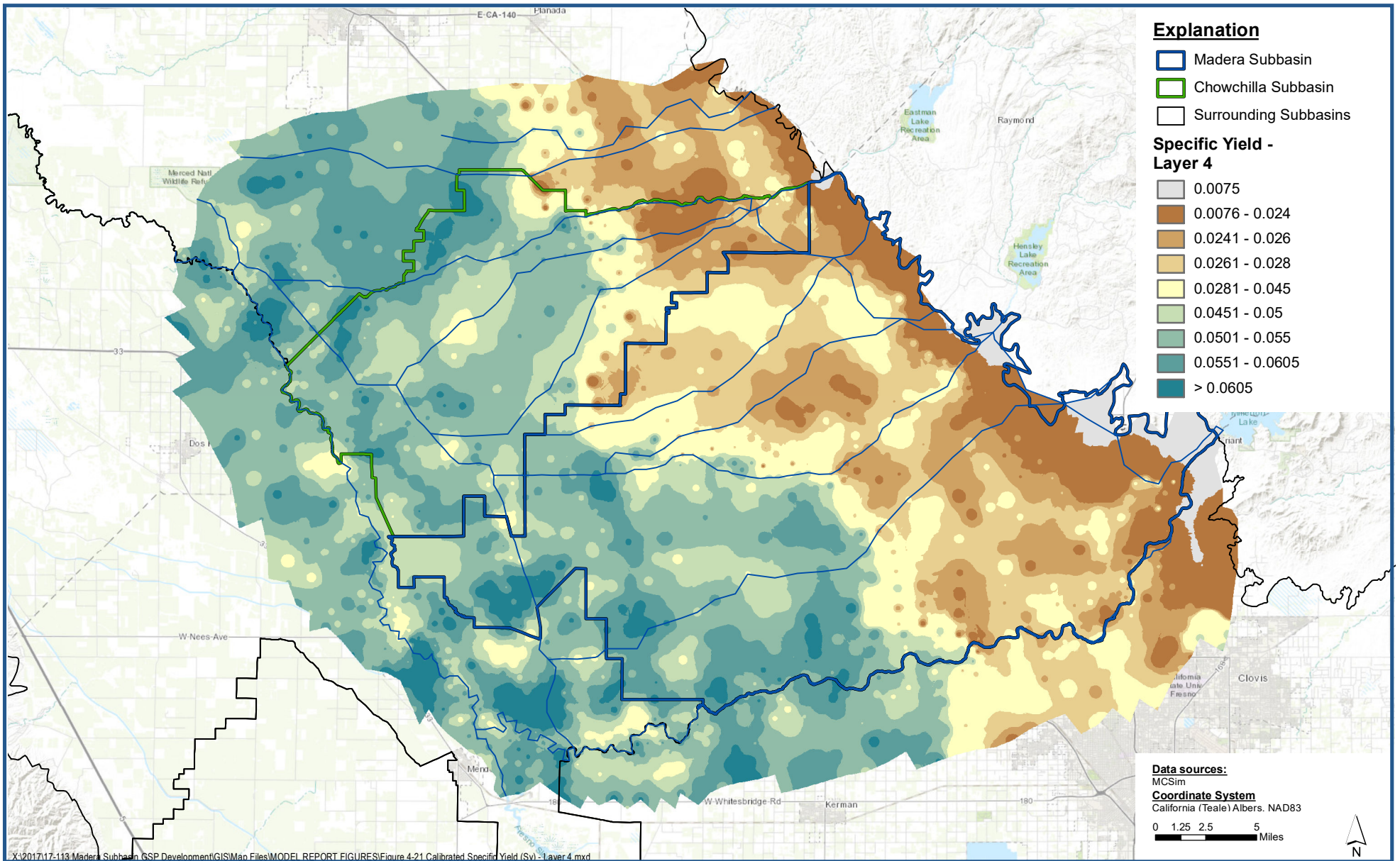
Figure 4-19



### Calibrated Specific Yield (Sy) - Layer 3

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

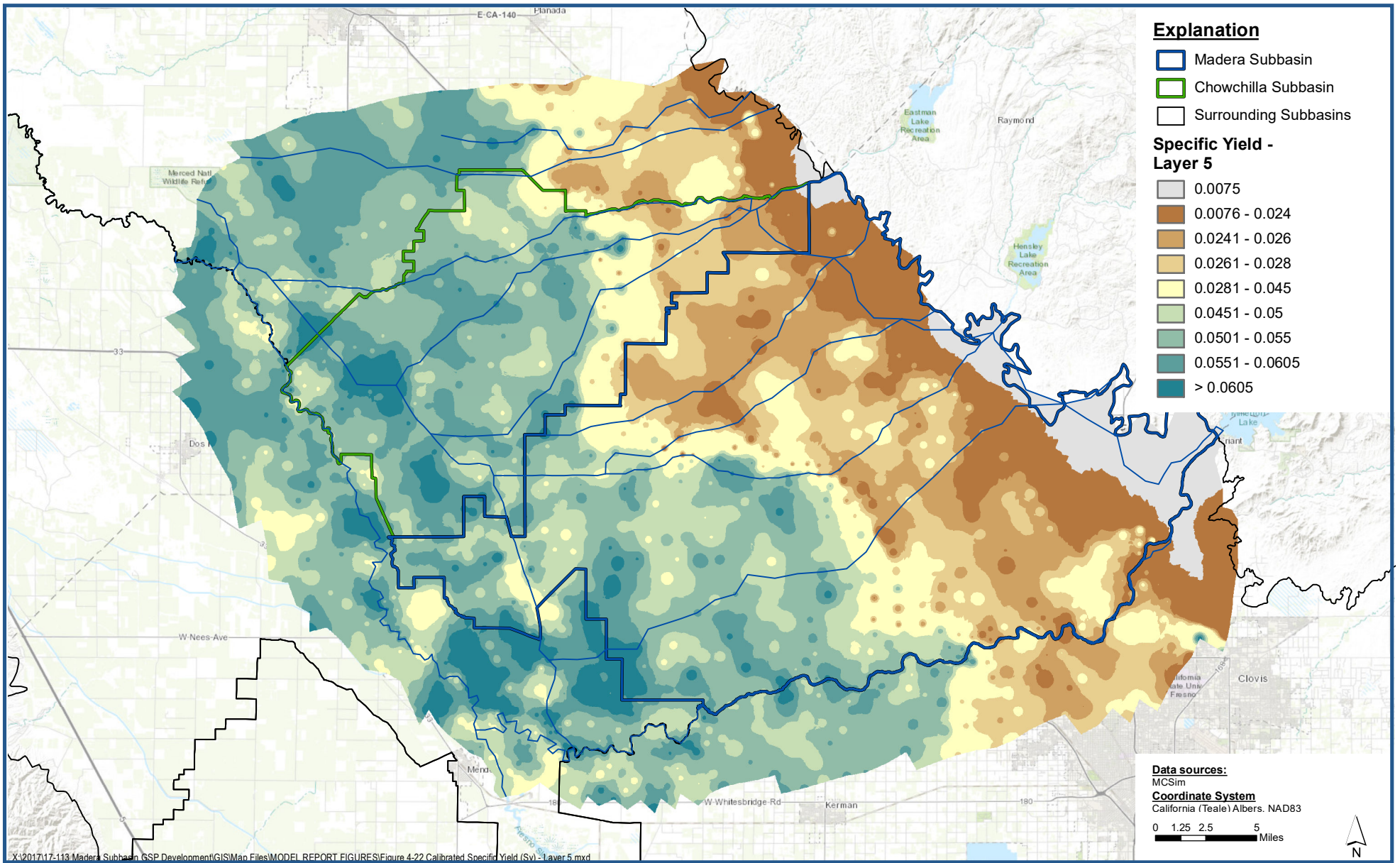
Figure 4-20



### Calibrated Specific Yield (Sy) - Layer 4

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

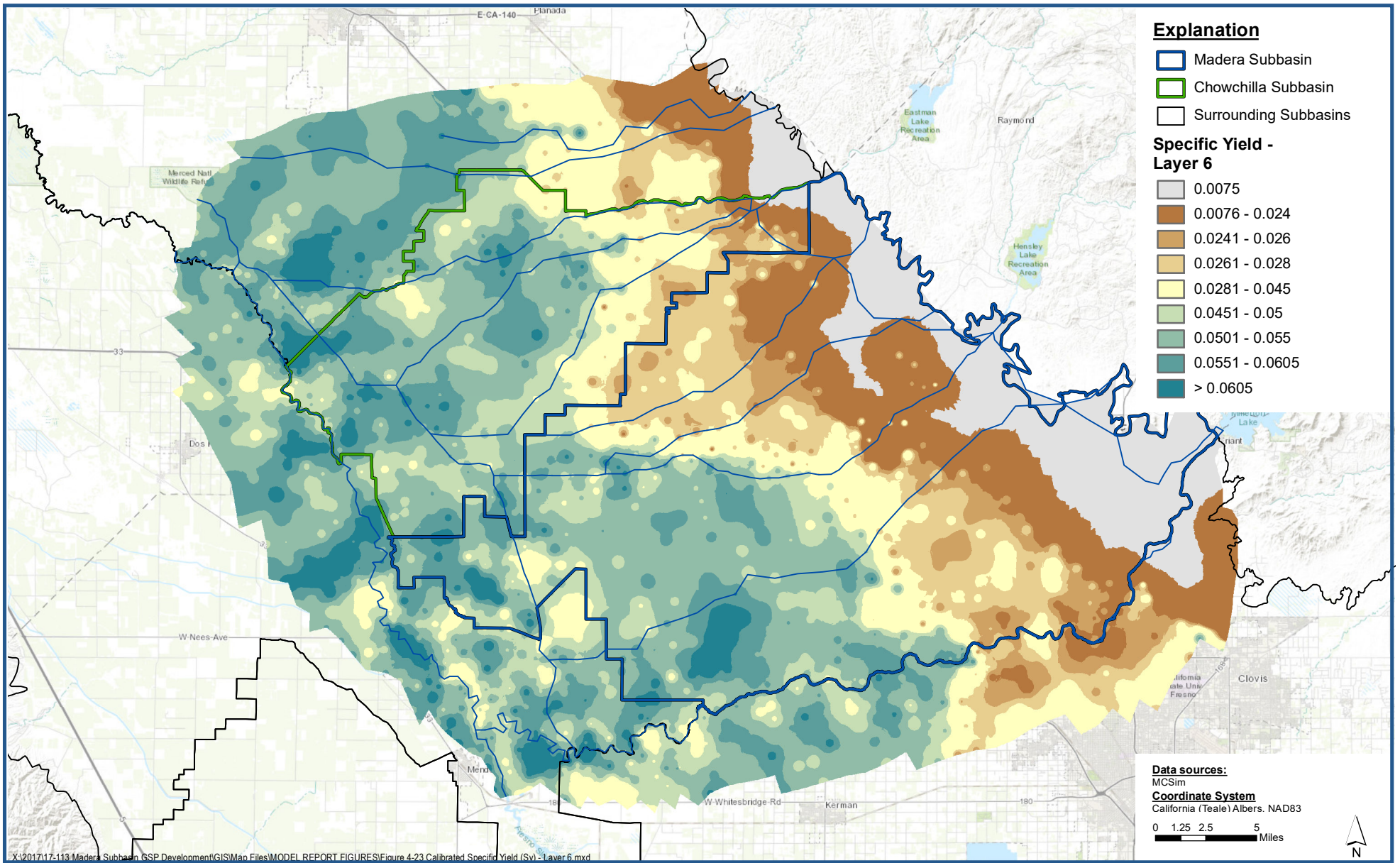
Figure 4-21



### Calibrated Specific Yield (Sy) - Layer 5

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

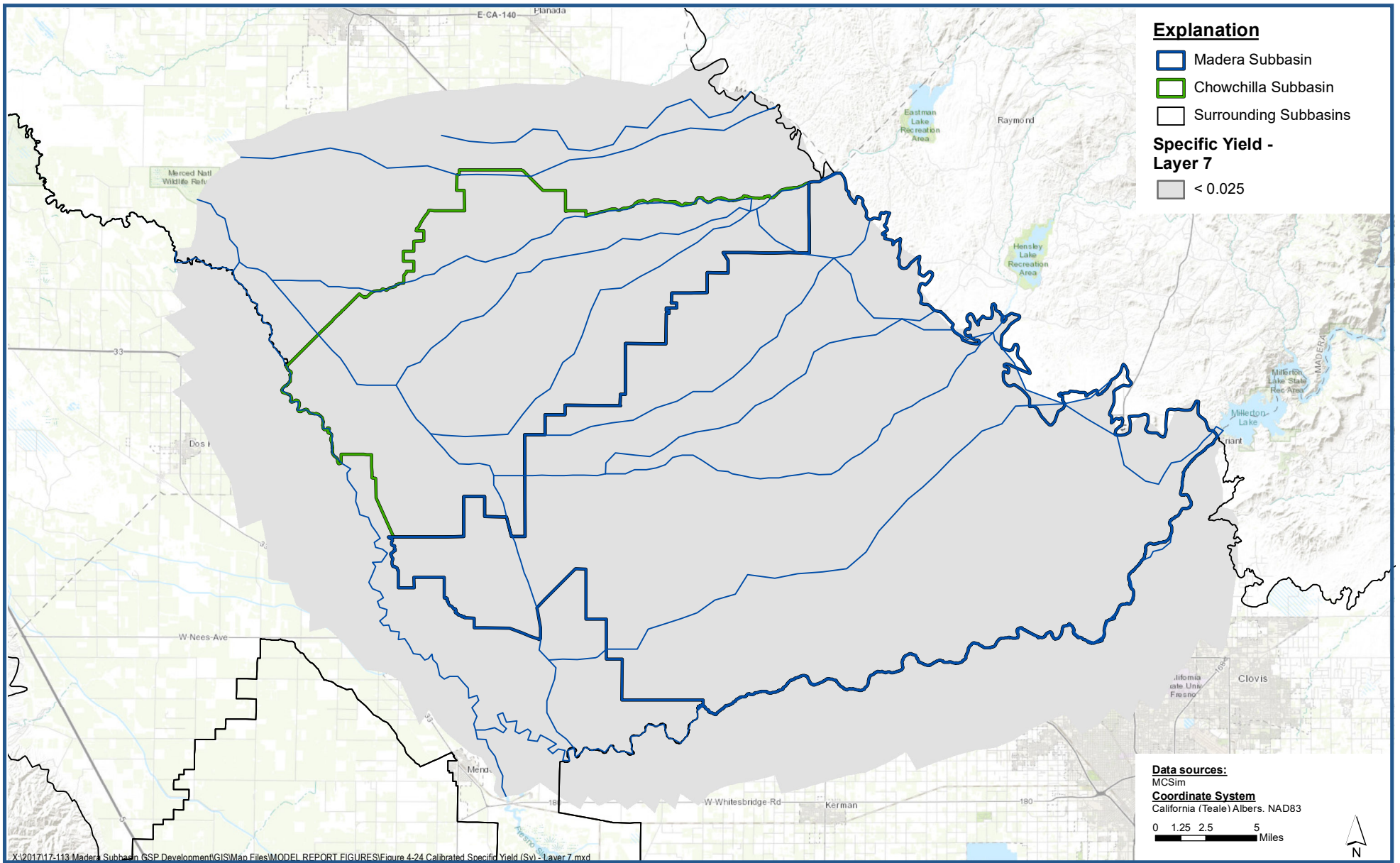
Figure 4-22



### Calibrated Specific Yield (Sy) - Layer 6

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-23

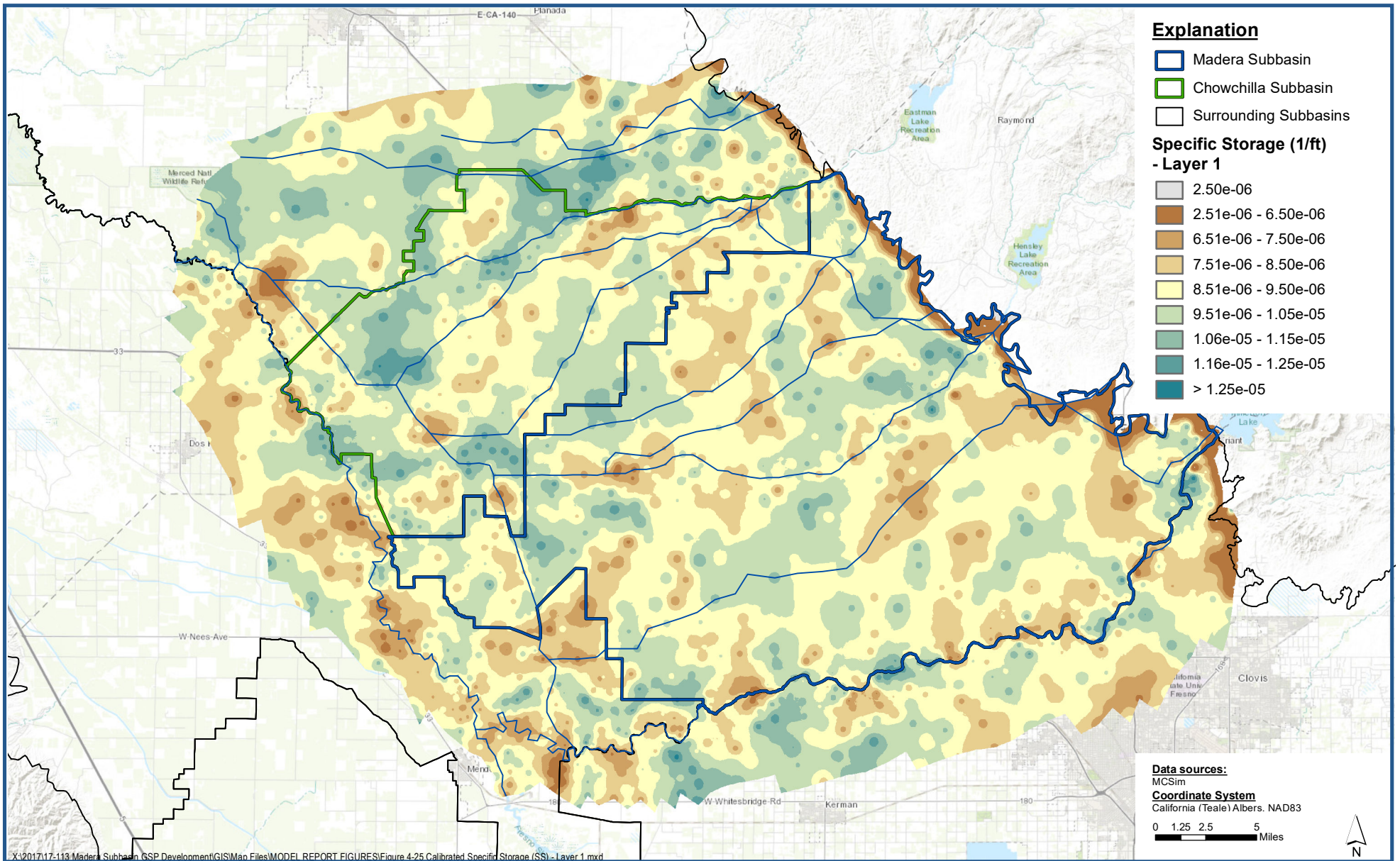


### Calibrated Specific Yield (Sy) - Layer 7

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-24

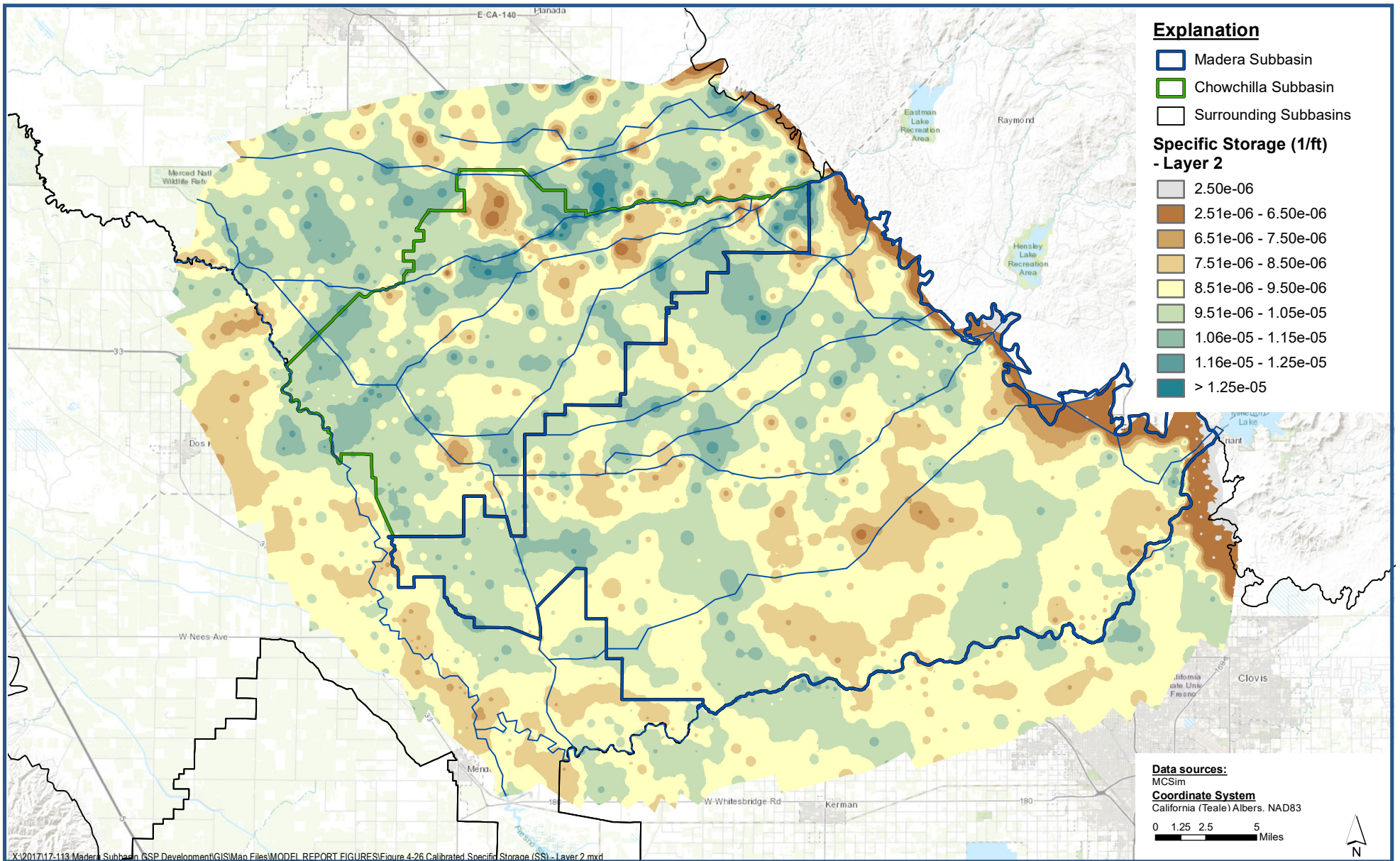




### Calibrated Specific Storage (SS) - Layer 1

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

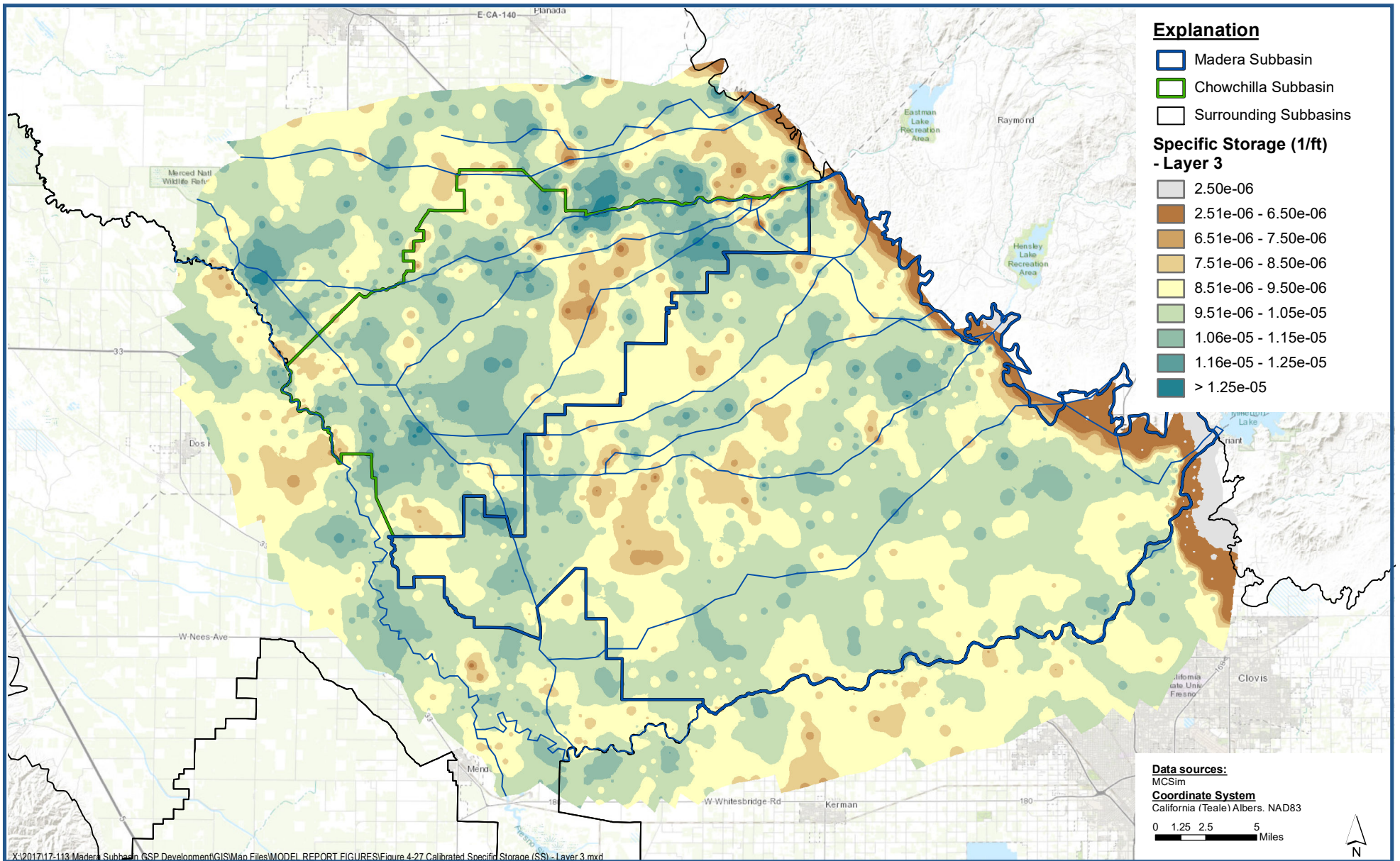
Figure 4-25



### Calibrated Specific Storage (SS) - Layer 2

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

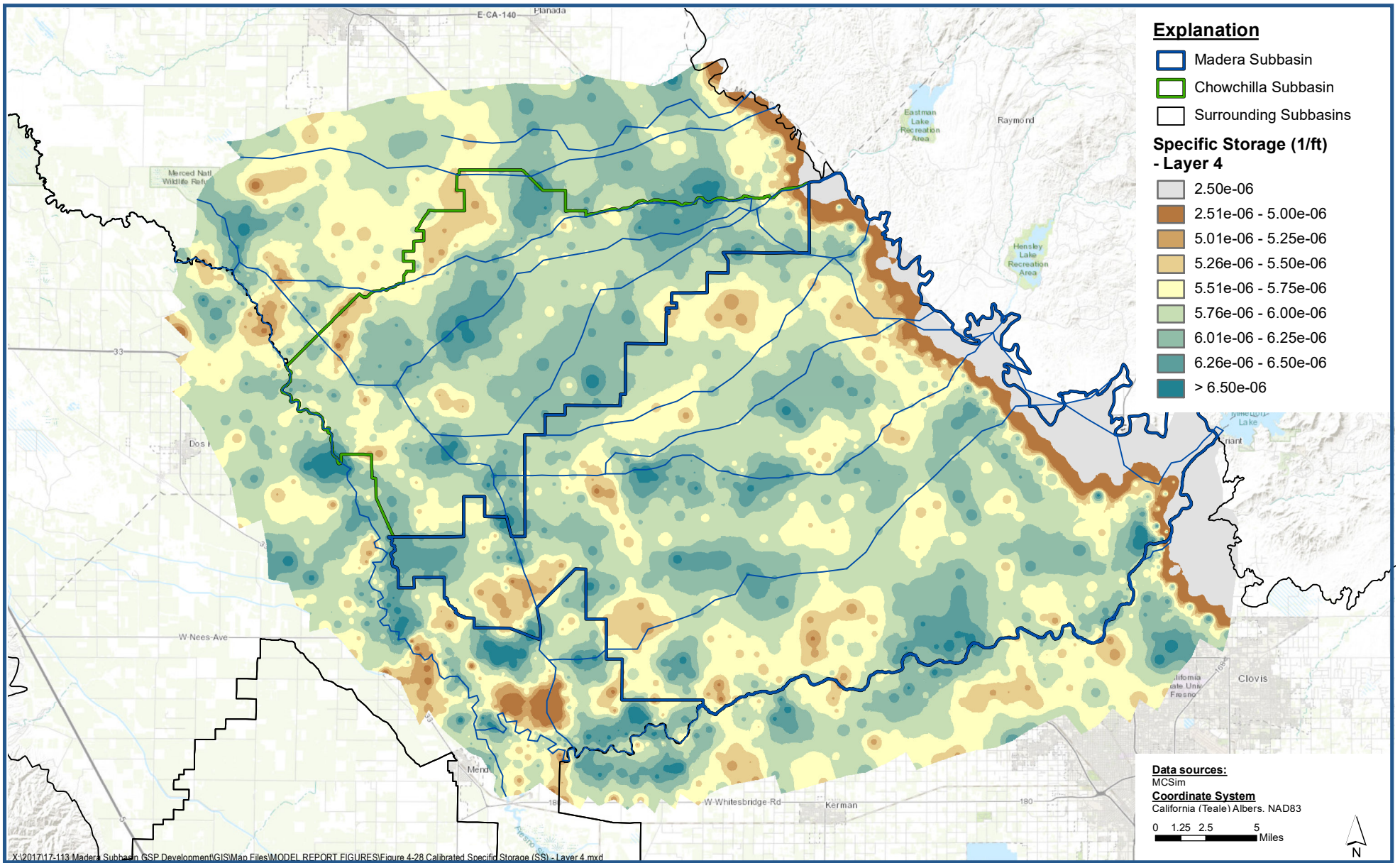
Figure 4-26



### Calibrated Specific Storage (SS) - Layer 3

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

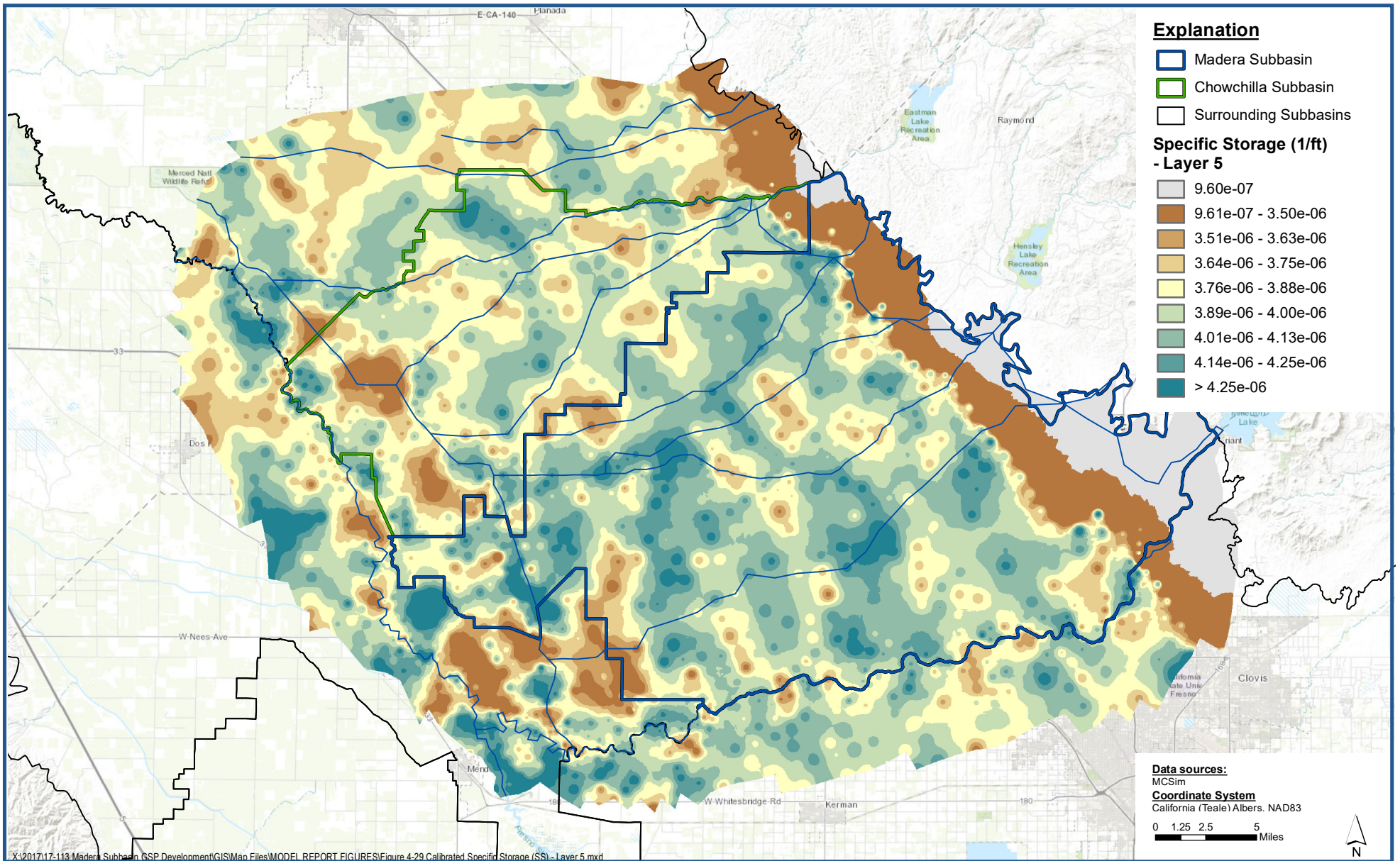
Figure 4-27



### Calibrated Specific Storage (SS) - Layer 4

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

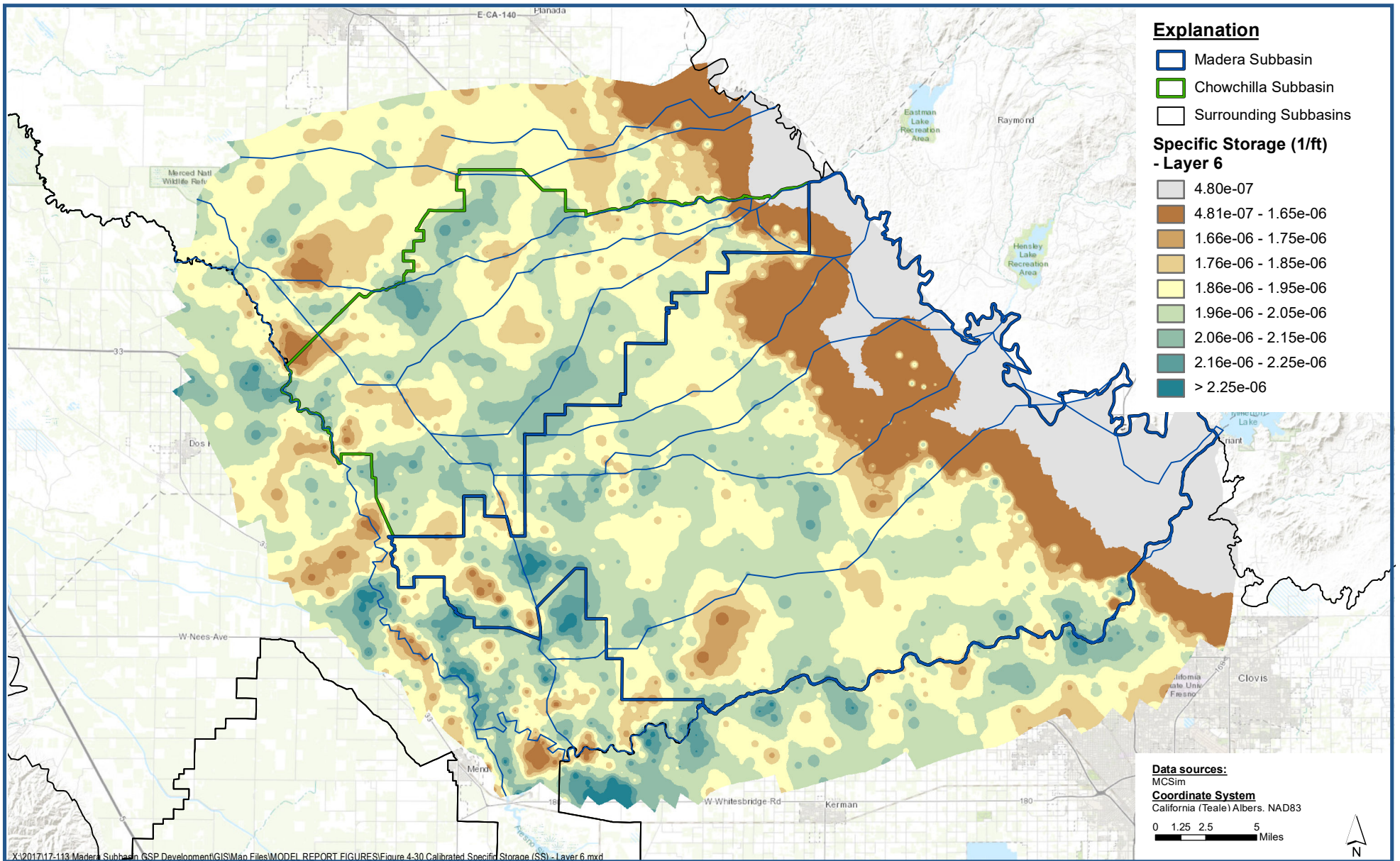
Figure 4-28



### Calibrated Specific Storage (SS) - Layer 5

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

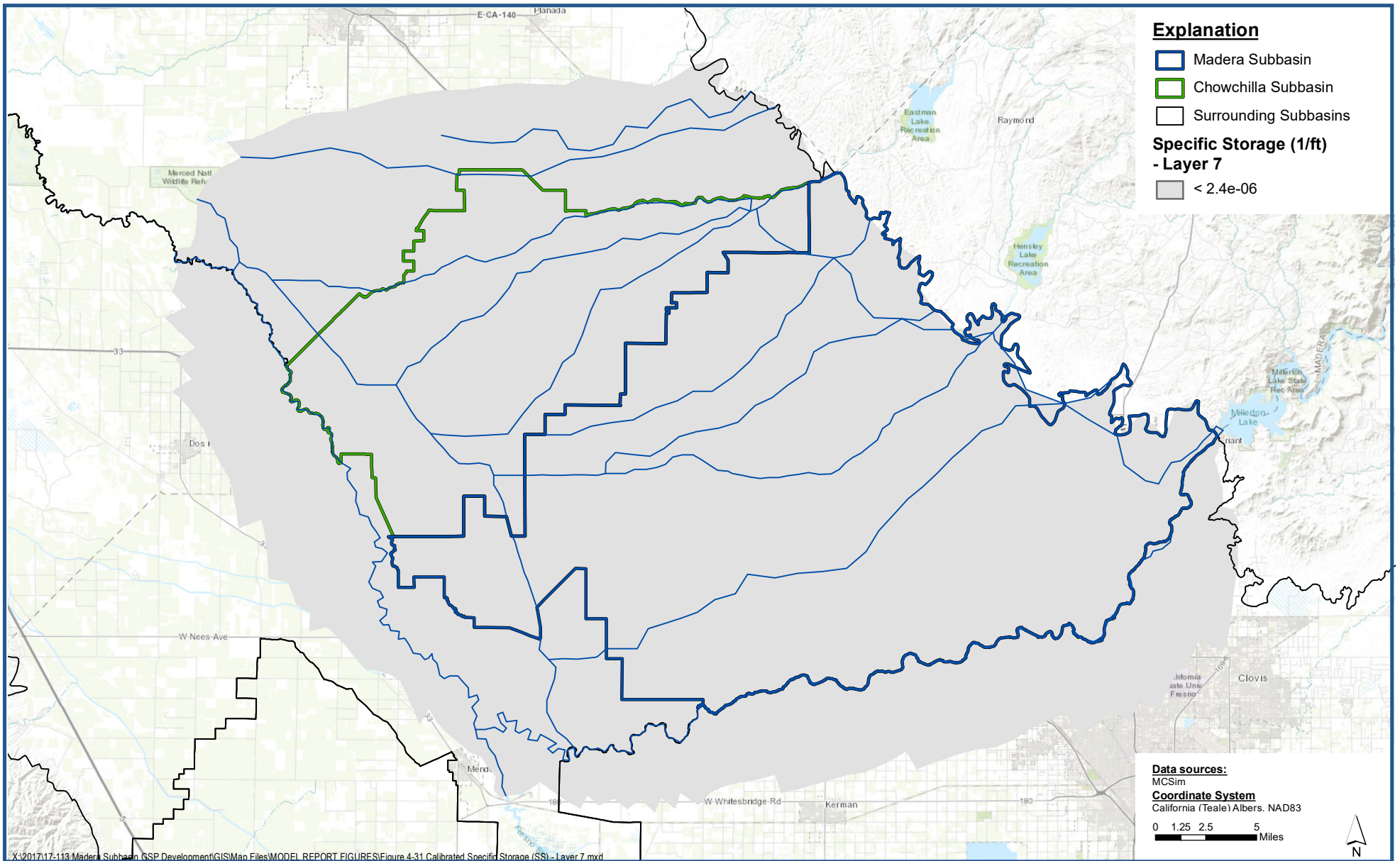
Figure 4-29



### Calibrated Specific Storage (SS) - Layer 6

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

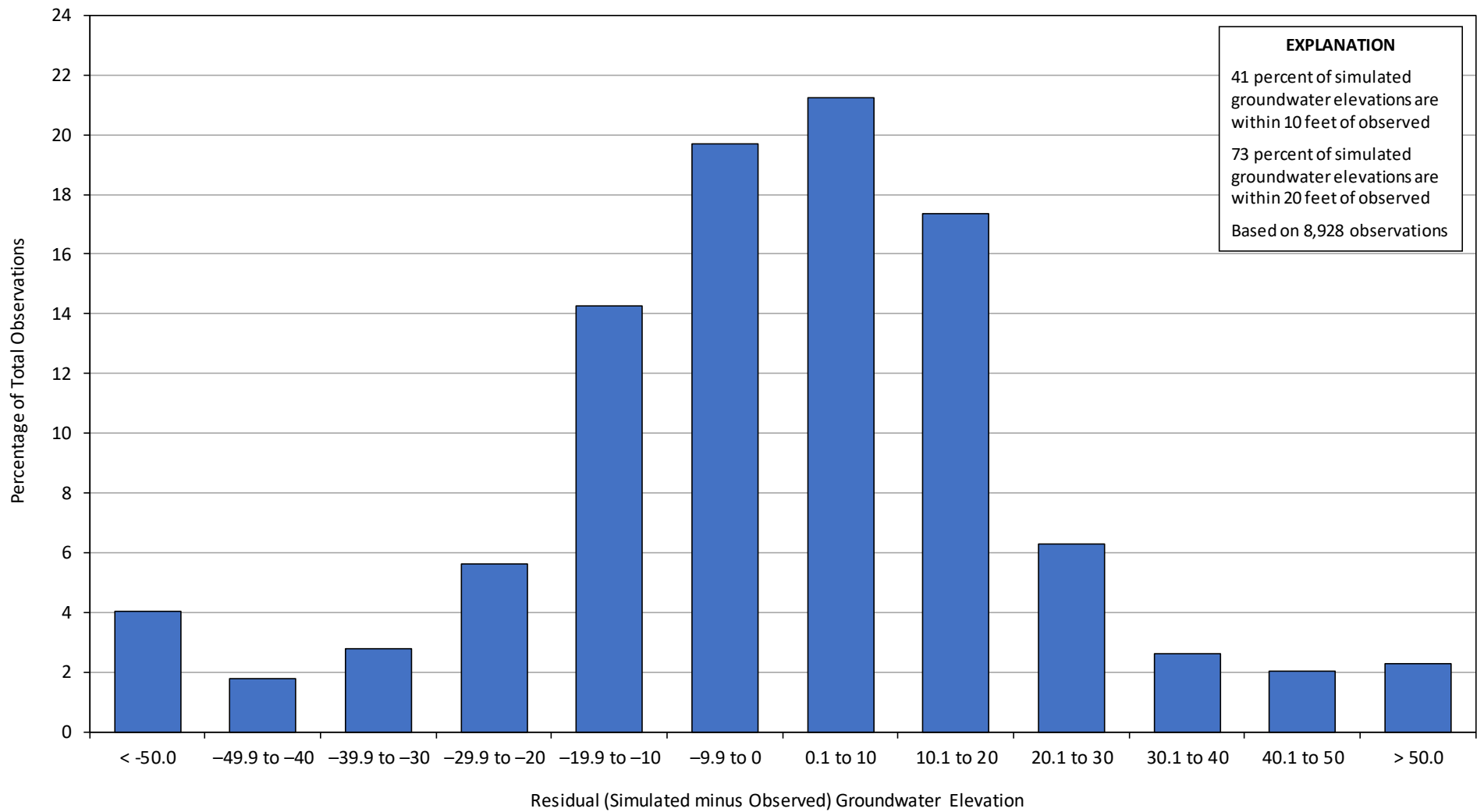
Figure 4-30



### Calibrated Specific Storage (SS) - Layer 7

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-31



X:\2017\17-113 Madera Subbasin GSP Development\GIS\Map Files\MODEL REPORT FIGURES\Figure 4-32 Histogram of Residual (Simulated minus Observed) Groundwater Elevations for All Observations.mxd

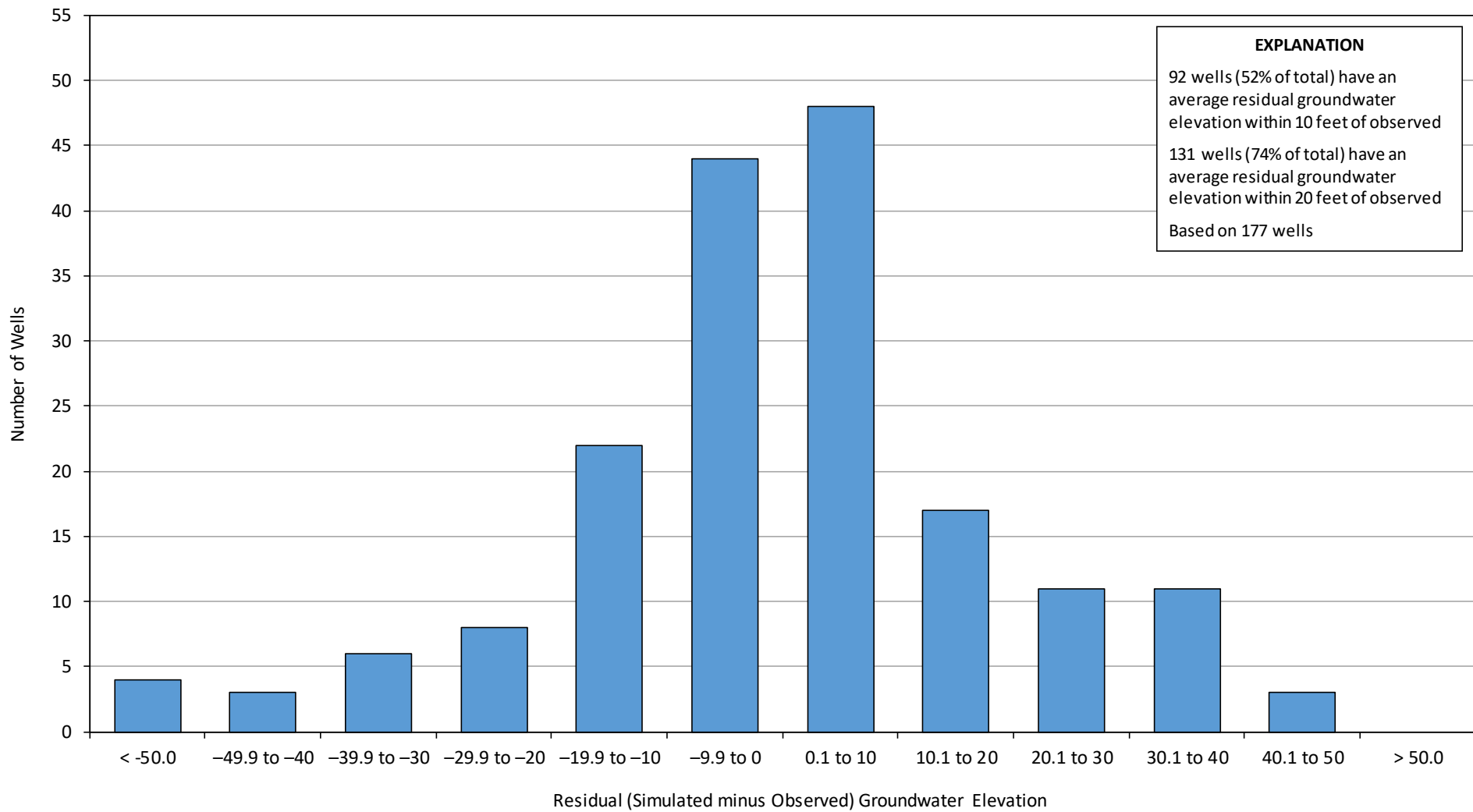


### Histogram of Residual (Simulated minus Observed) Groundwater Elevations for All Observations

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
 Madera County

Figure 4-32





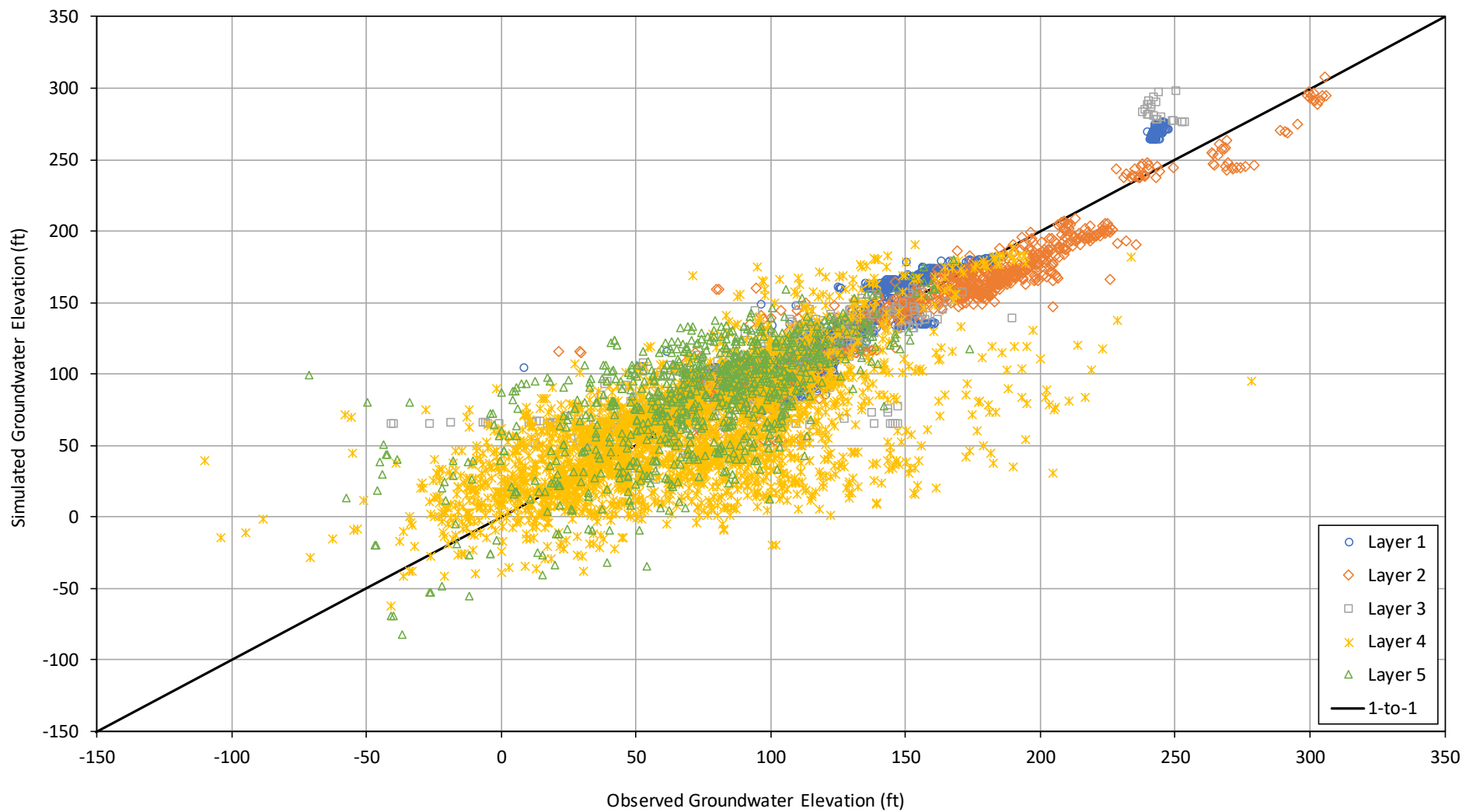
X:\2017\117-113 Madera Subbasin GSP Development\GIS\Map Files\MODEL REPORT FIGURES\Figure 4-33 Histogram of Average Residual (Simulated minus Observed) Groundwater Elevation by Well.mxd



### Histogram of Average Residual (Simulated minus Observed) Groundwater Elevation by Well

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
 Madera County

Figure 4-33



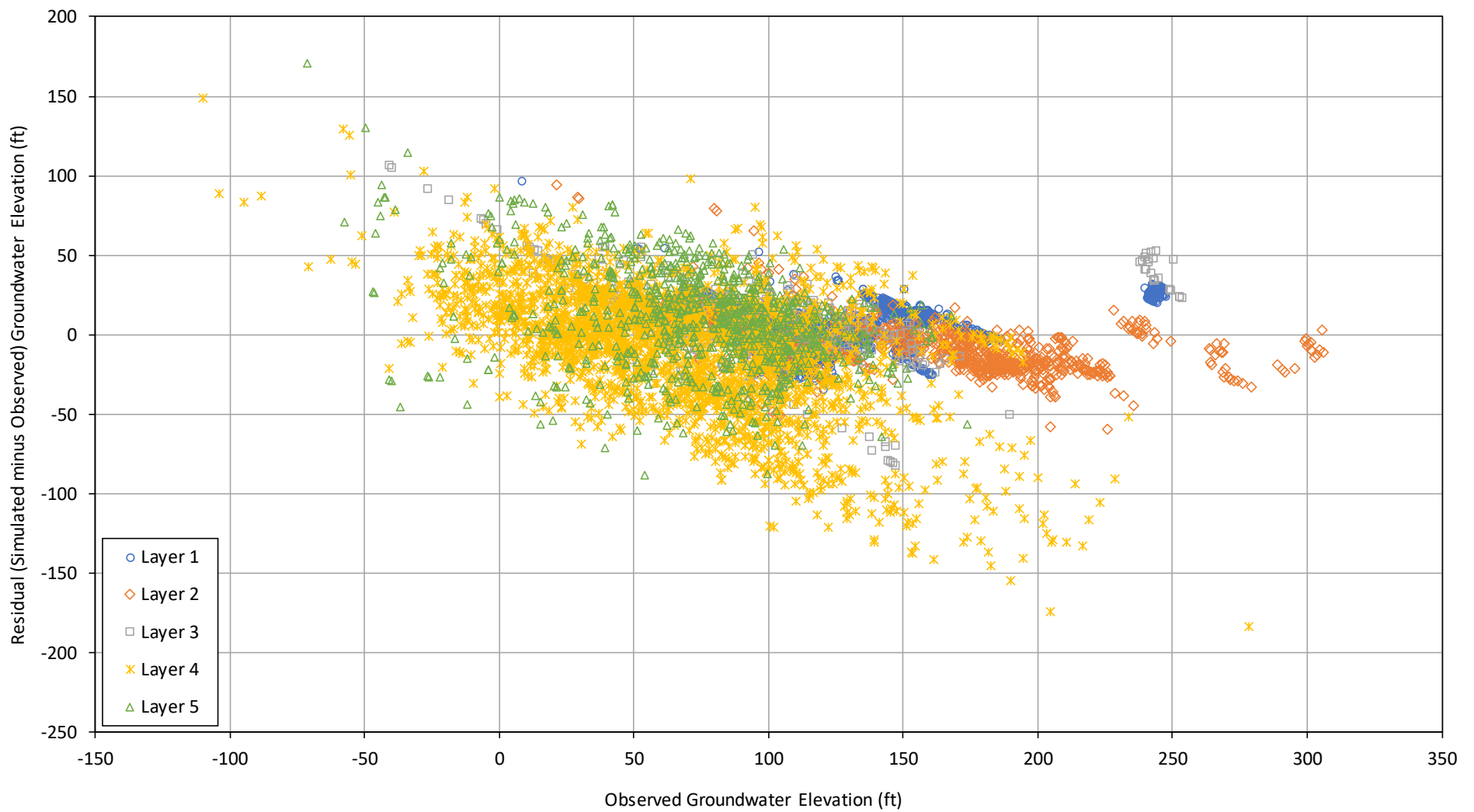
X:\2017\117-113 Madera Subbasin GSP Development\GIS\Map Files\MODEL REPORT FIGURES\Figure 4-34 Simulated vs. Observed Groundwater Elevations, By Layer.mxd



### Simulated vs. Observed Groundwater Elevations, By Layer

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-34



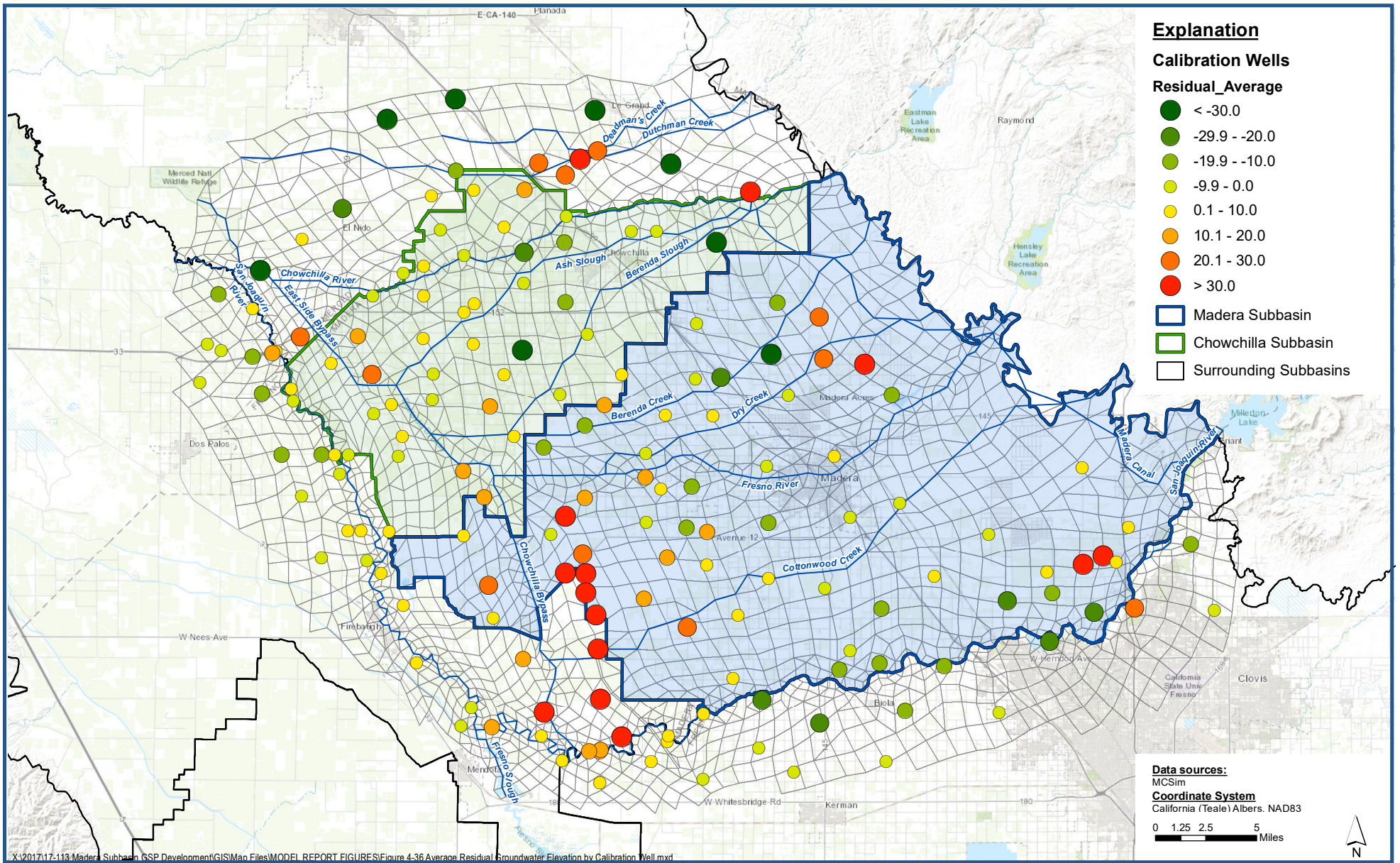
X:\2017\17-113 Madera Subbasin GSP Development\GIS\Map Files\MODEL REPORT FIGURES\Figure 4-35 Residual (Simulated minus Observed) vs. Observed Groundwater Elevations, By Layer.mxd



### Residual (Simulated minus Observed) vs. Observed Groundwater Elevations, By Layer

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

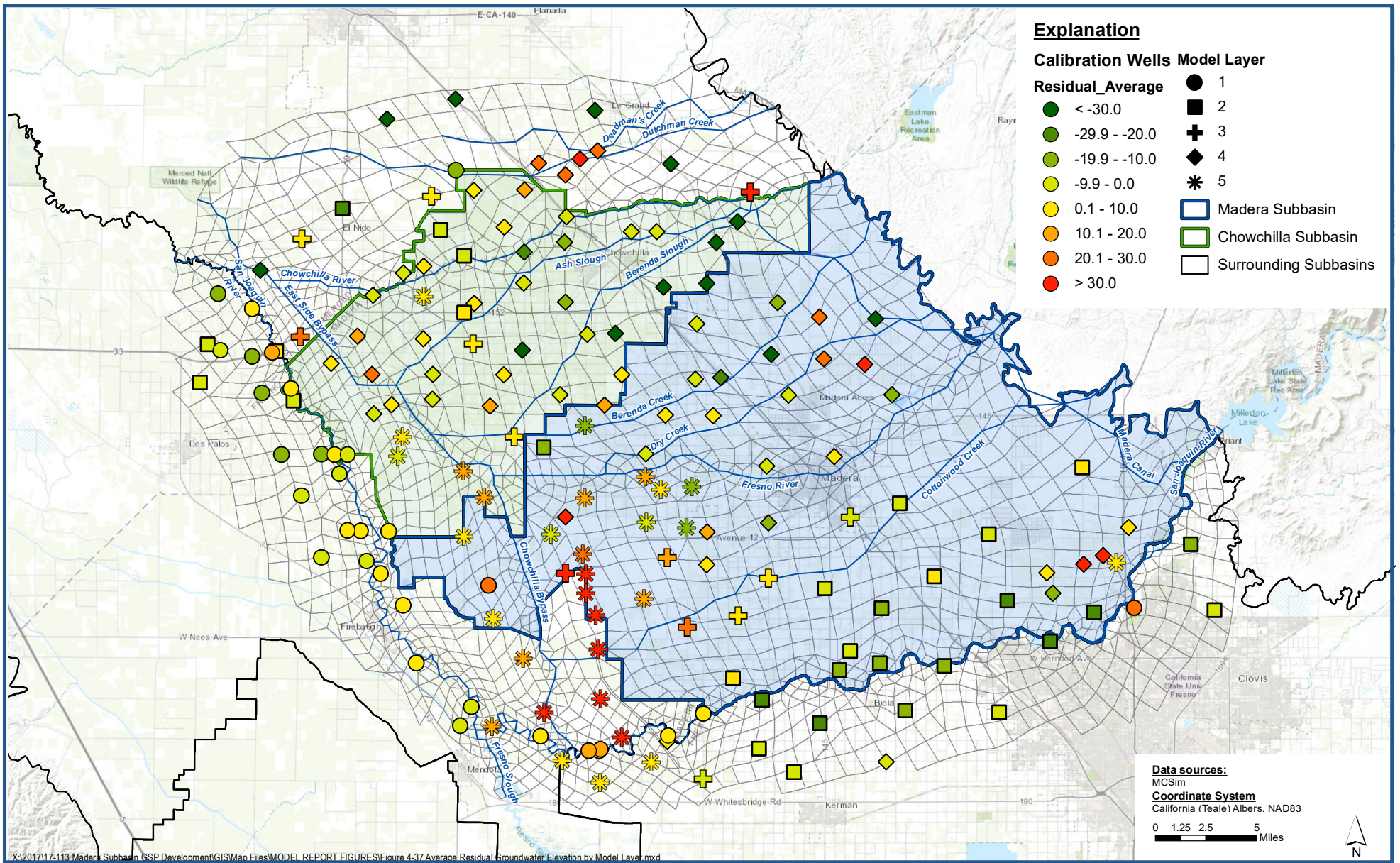
Figure 4-35



### Average Residual Groundwater Elevation by Calibration Well

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

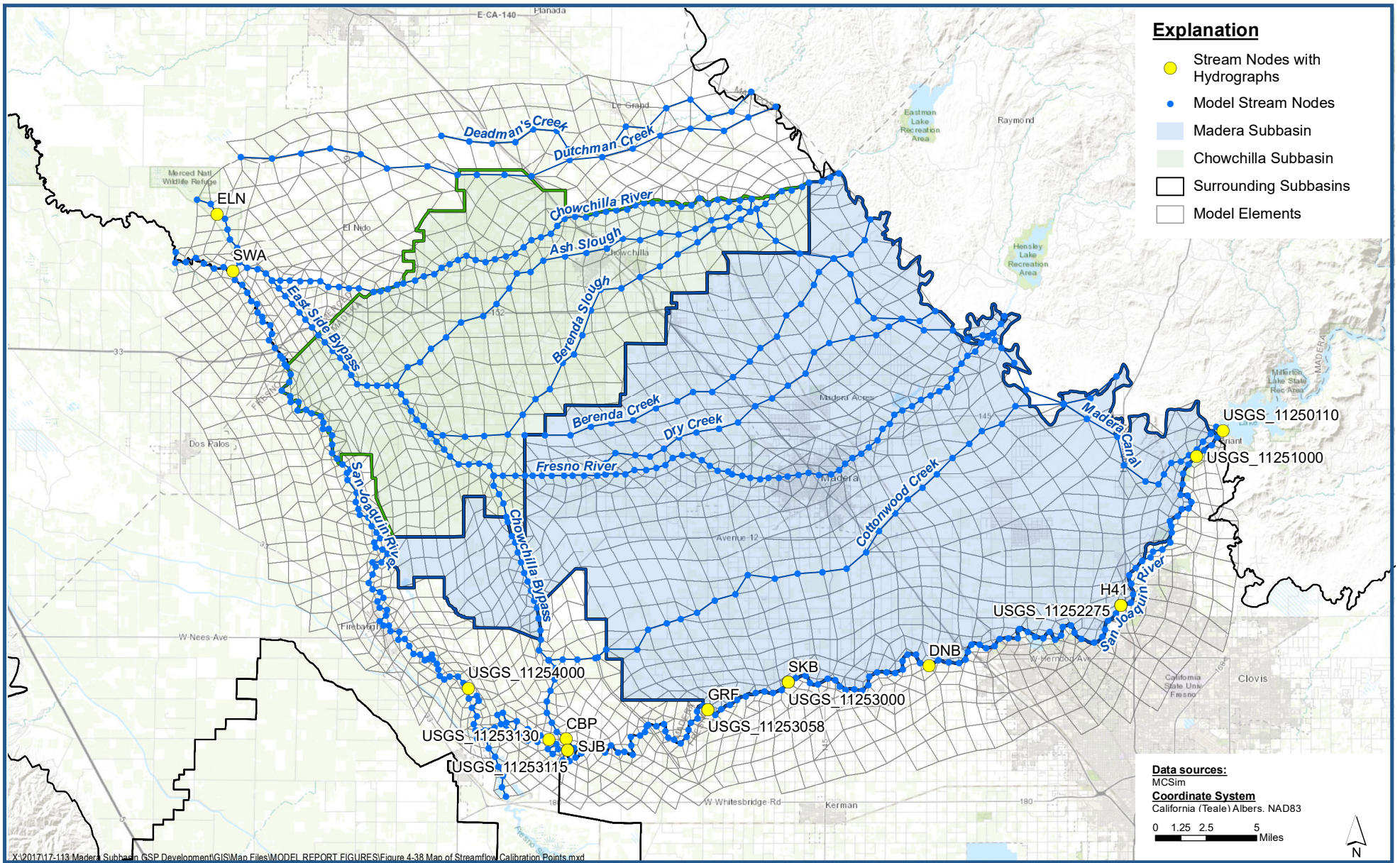
Figure 4-36



### Average Residual Groundwater Elevation by Model Layer

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-37



### Map of Streamflow Calibration Points

Madera-Chowchilla Groundwater-Surface Water Simulation Model (MCSim) Report  
Madera County

Figure 4-38