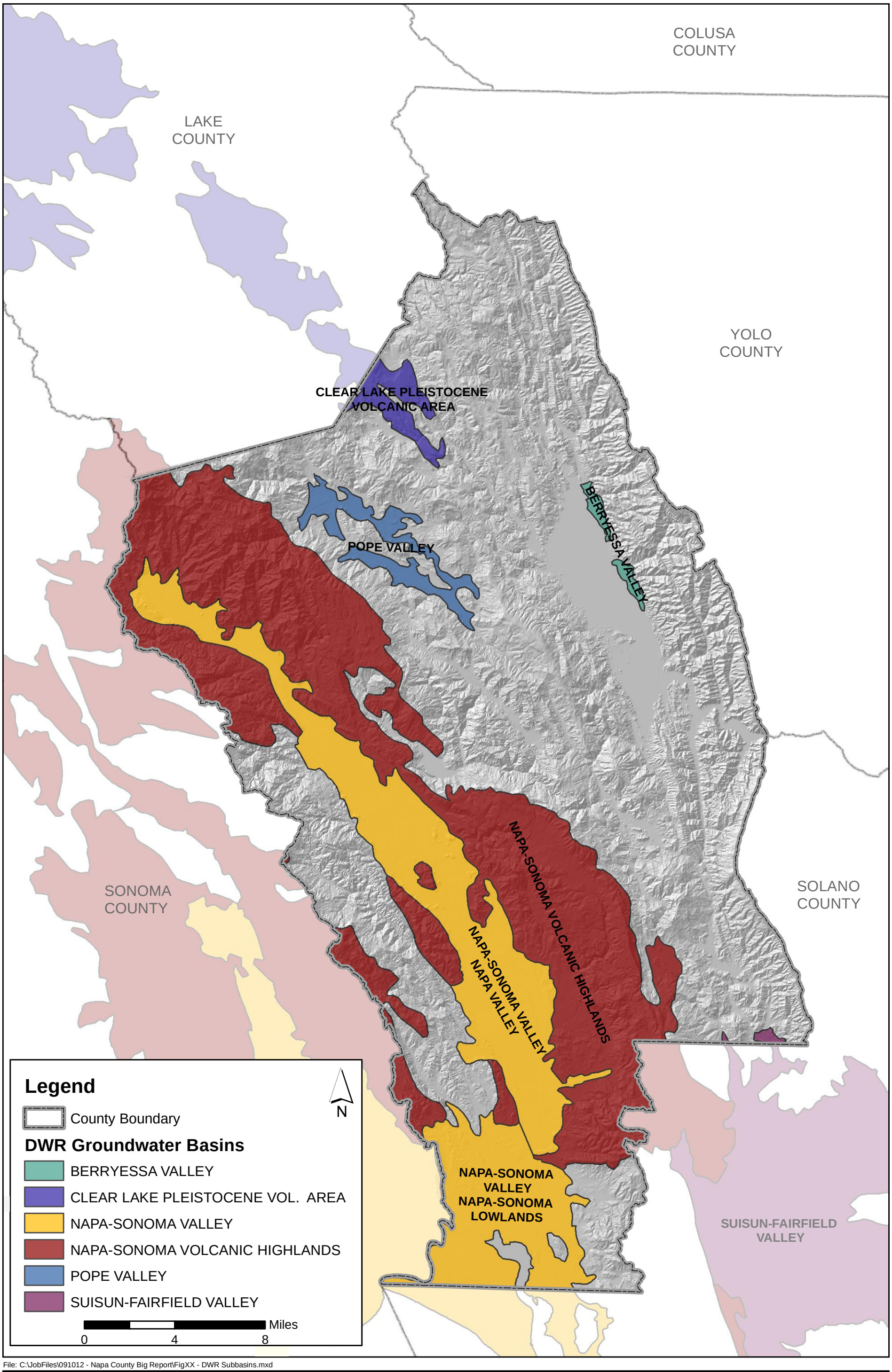
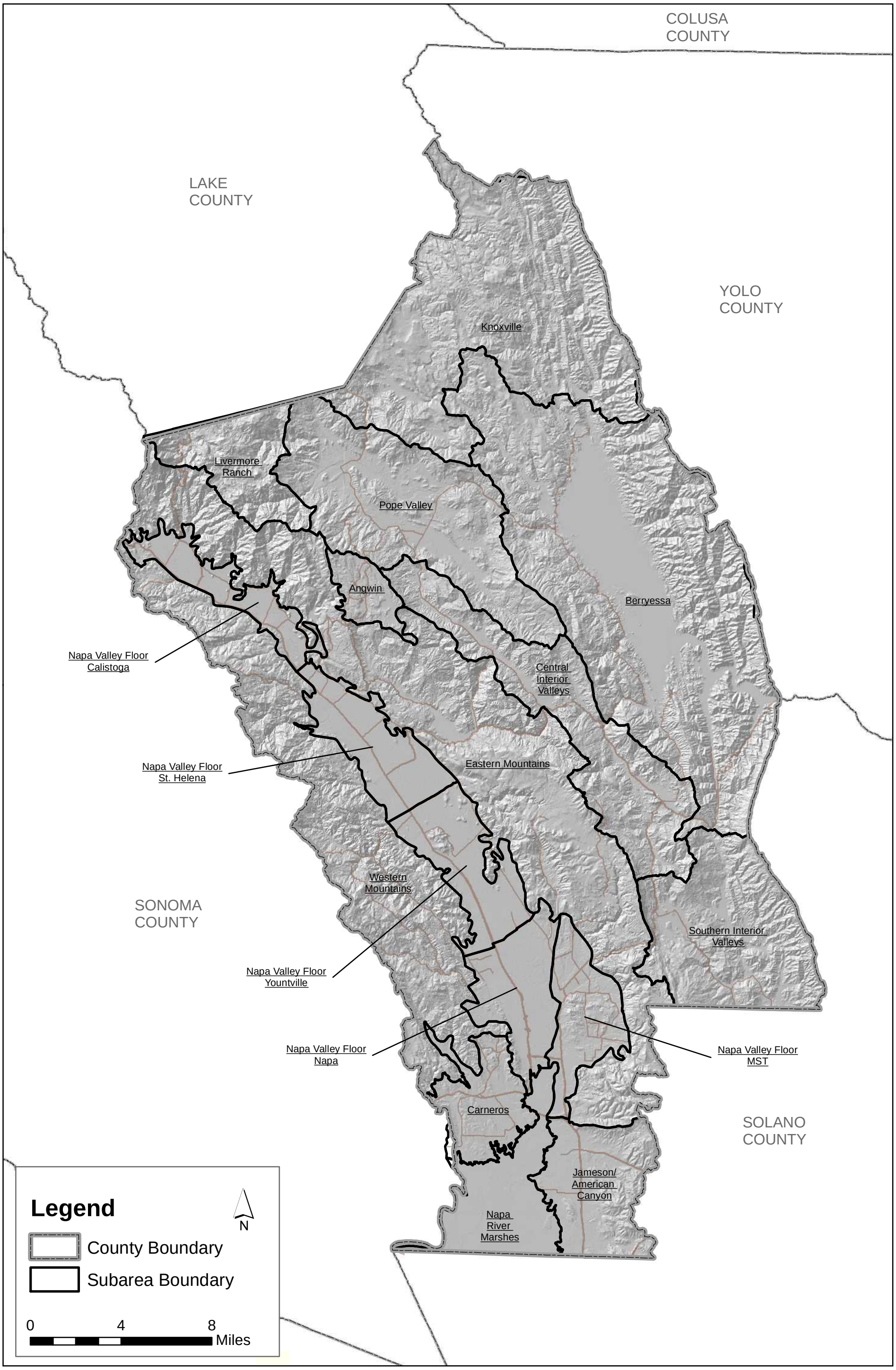
Figures



File: C:\JobFiles\091012 - Napa County Big Report\FigXX - DWR Subbasins.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

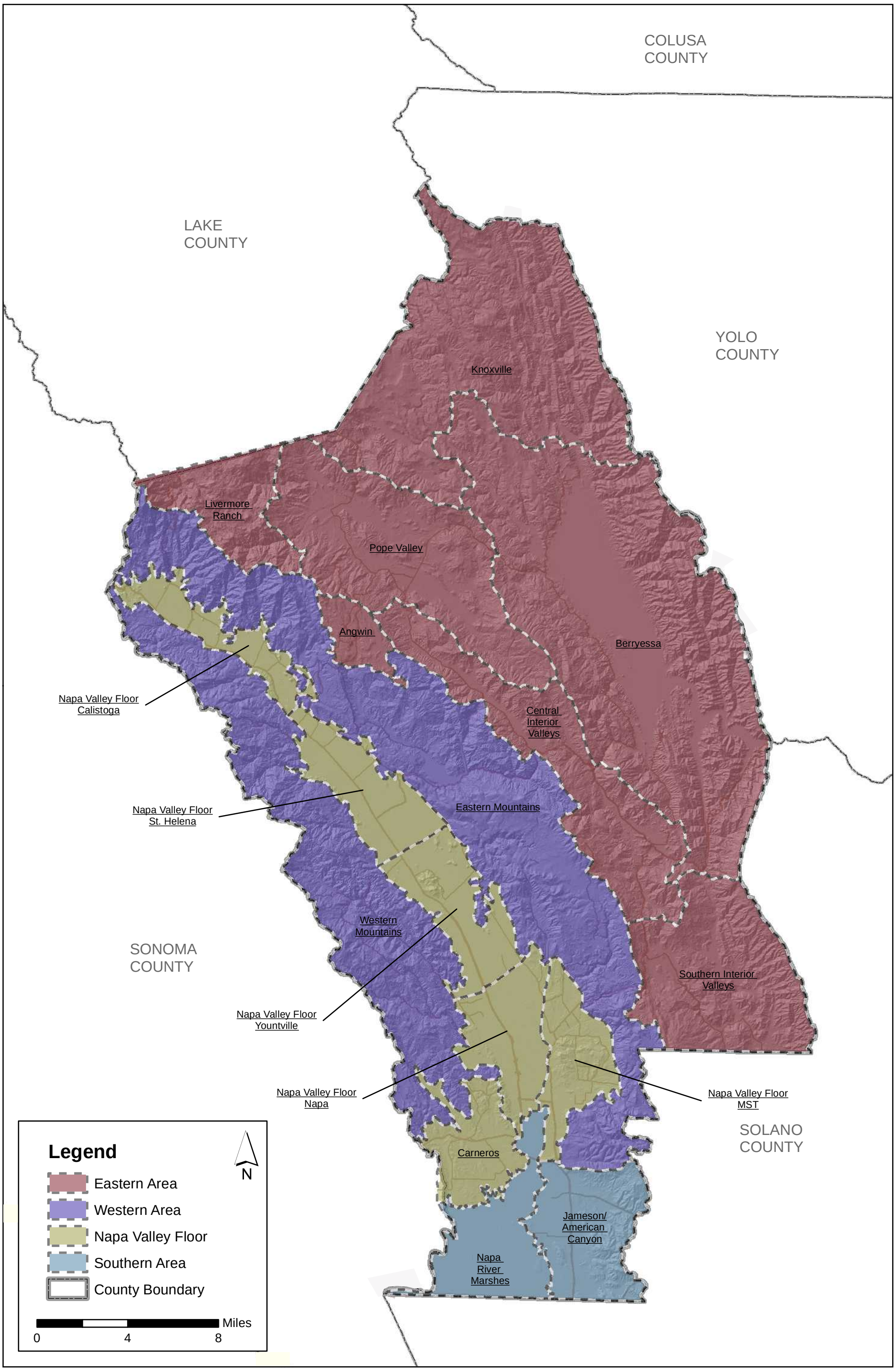
Figure 1.1
Dept. of Water Resources Groundwater Basins and Subbasins
Napa County, CA



File: Z:\Clerical\2009 Job Files\09-012\Report\Figures\Section 1\Fig1_2.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

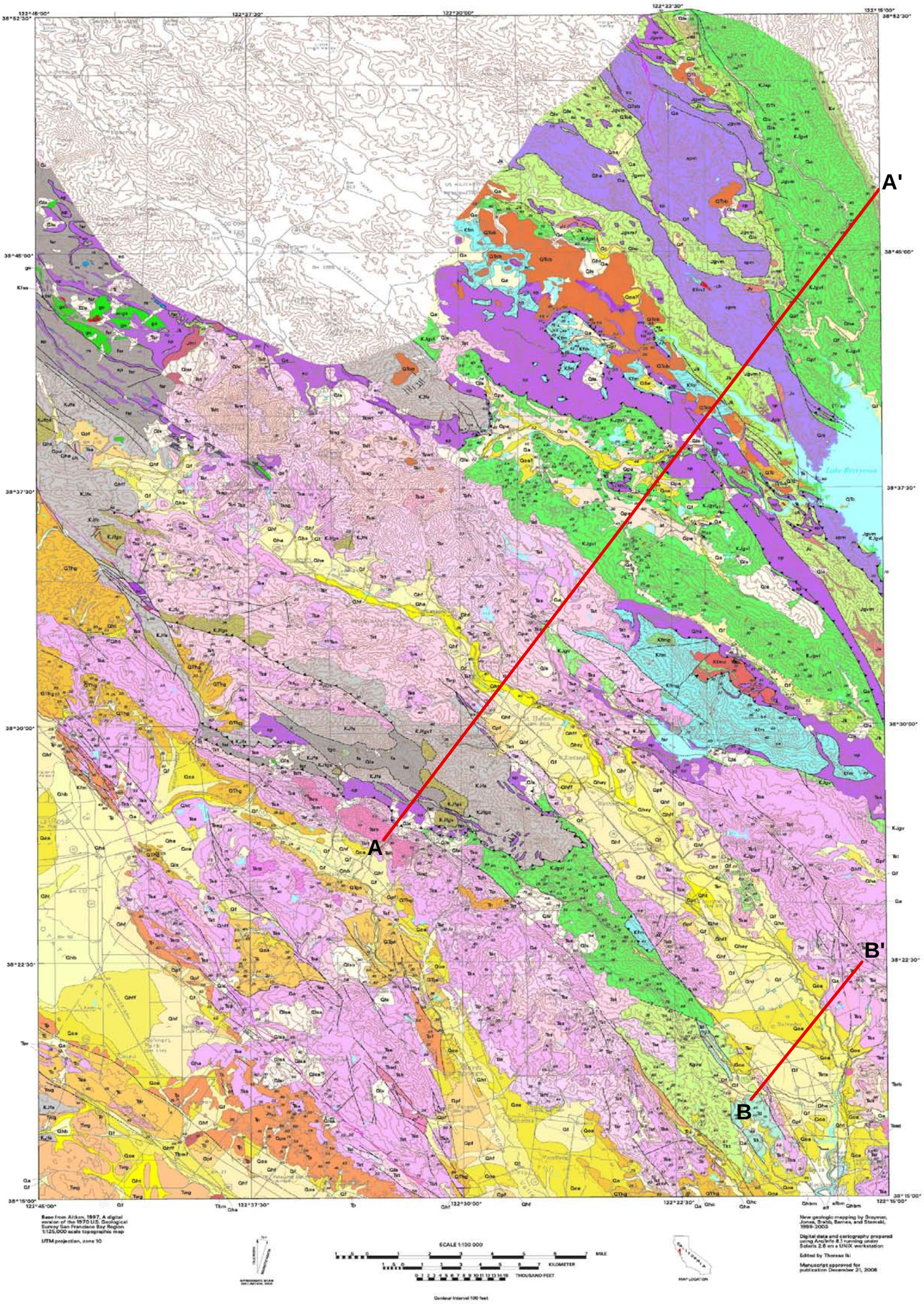
Figure 1.2
Napa County Subareas
Napa County, CA

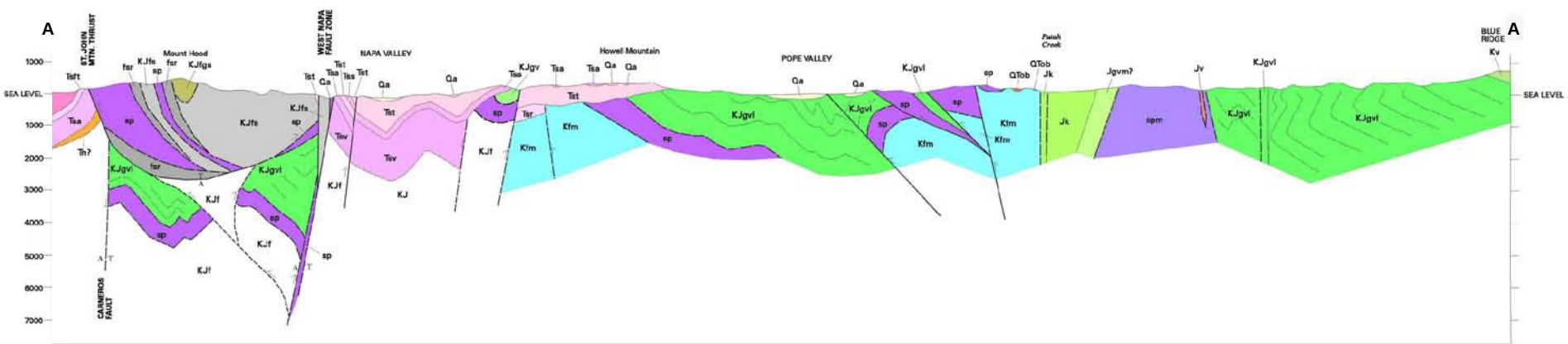


File: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Fig2-2 - Geologic Subareas.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

Figure 2.1
Napa County Geologic Areas
Napa County, CA





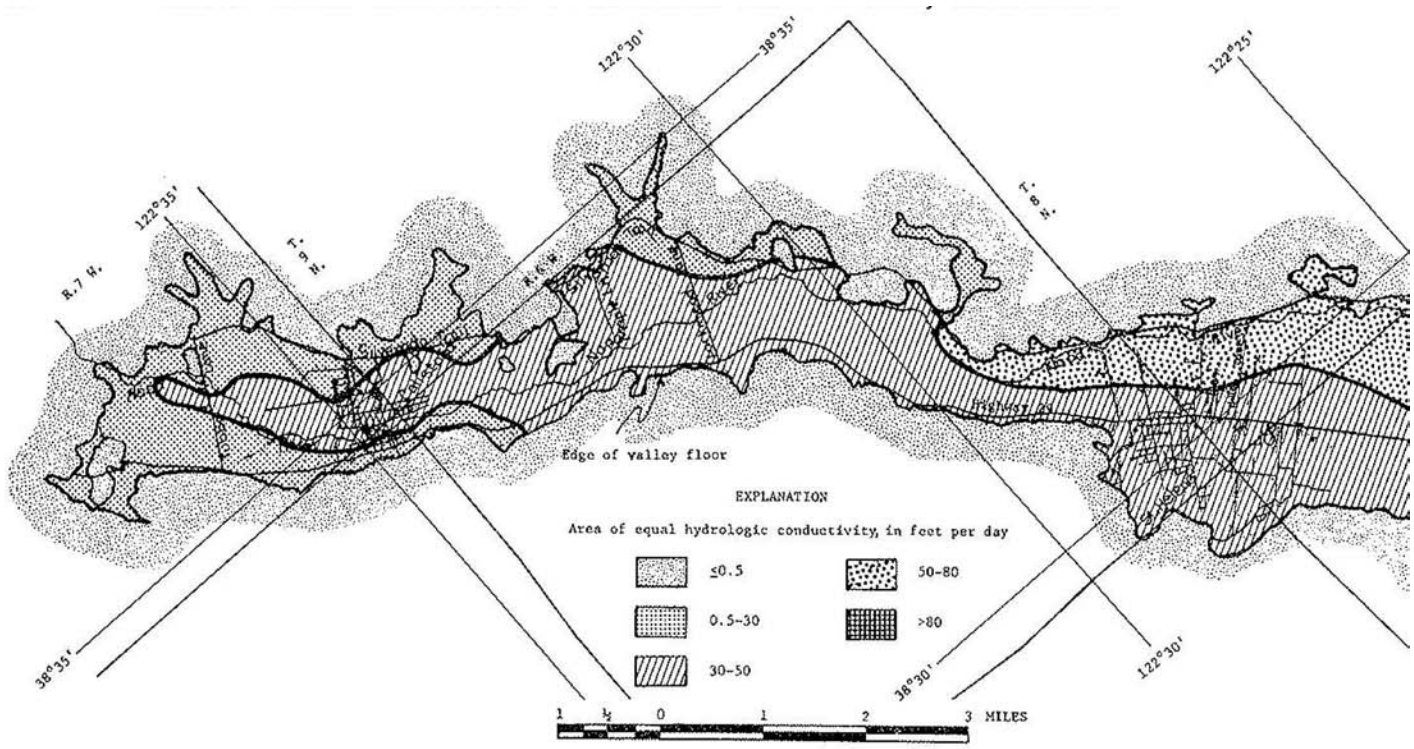
(Graymer, 2003)

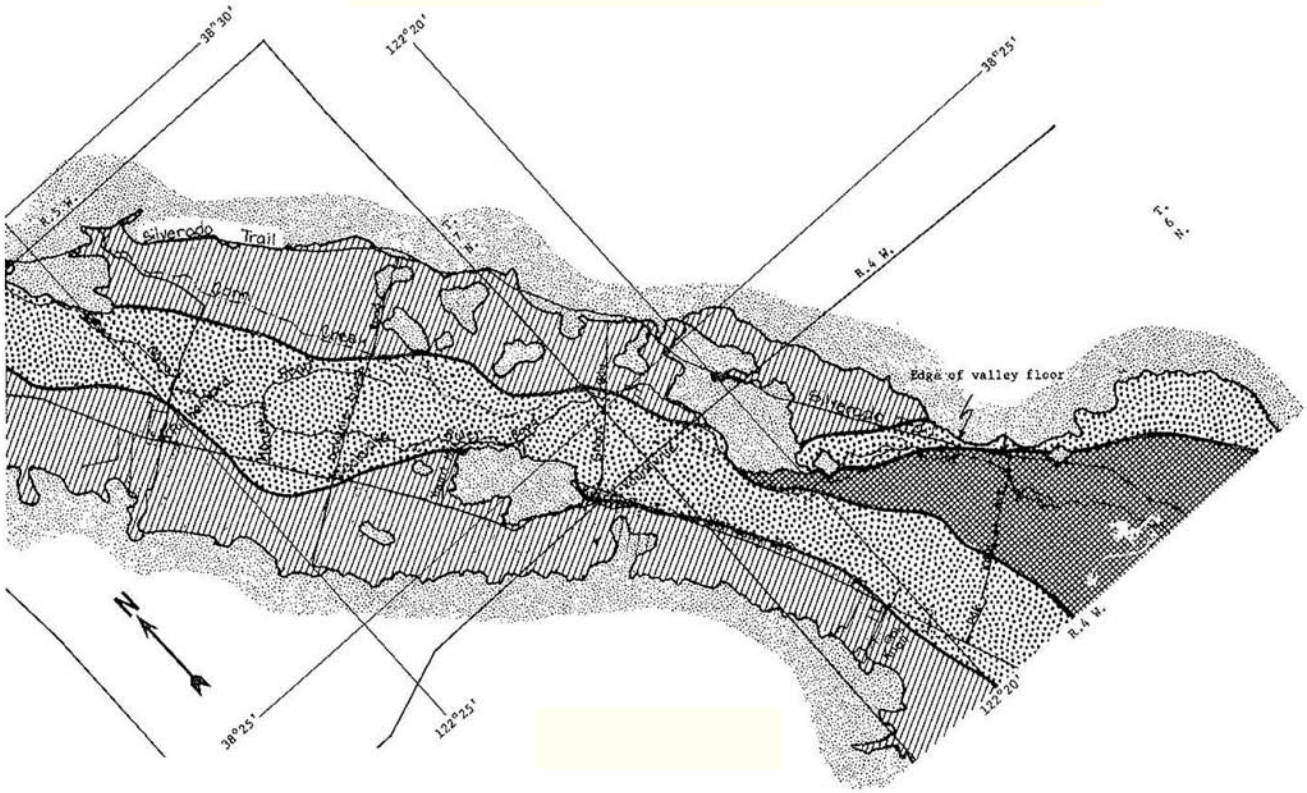
B-B' taken from Kunkel and Upson (1960), Figure 2.5 in this report

FILE: Untitled.mxd Date: 11/14/2008

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

Figure 2.4
Geologic Map and Cross Section of Northern Napa County
Napa, County



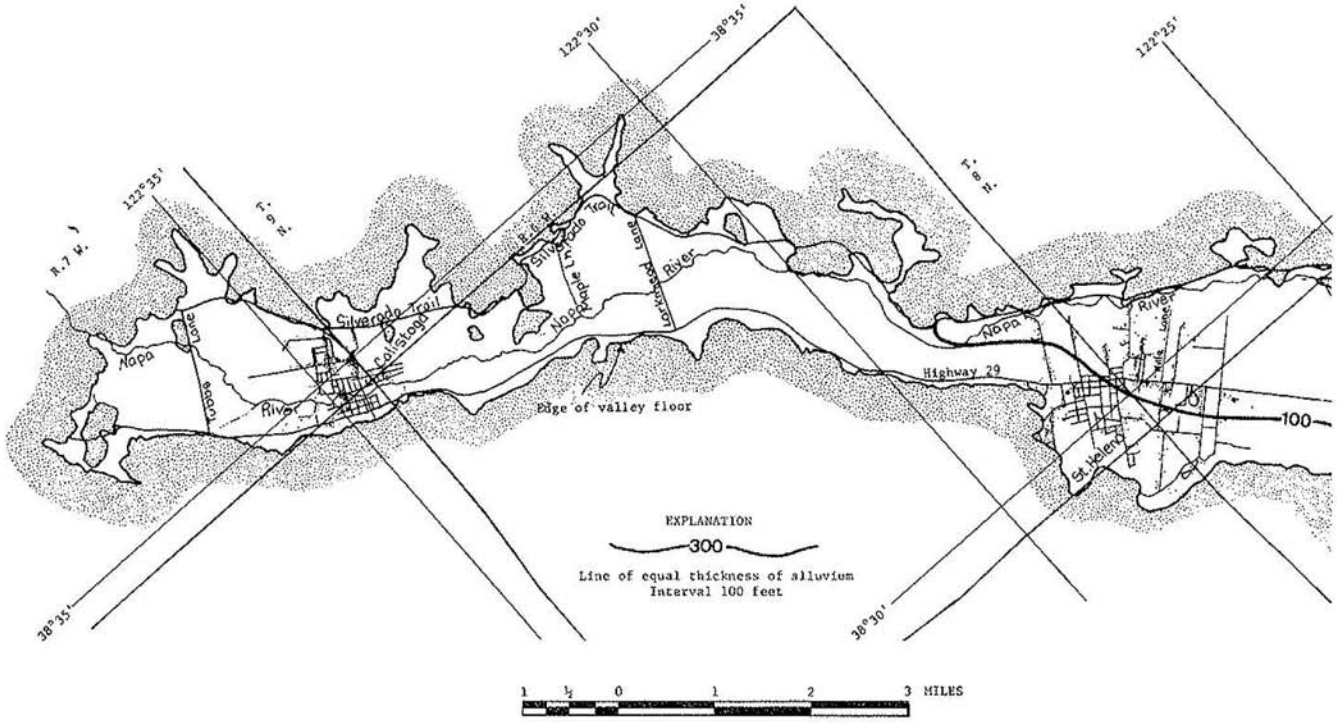


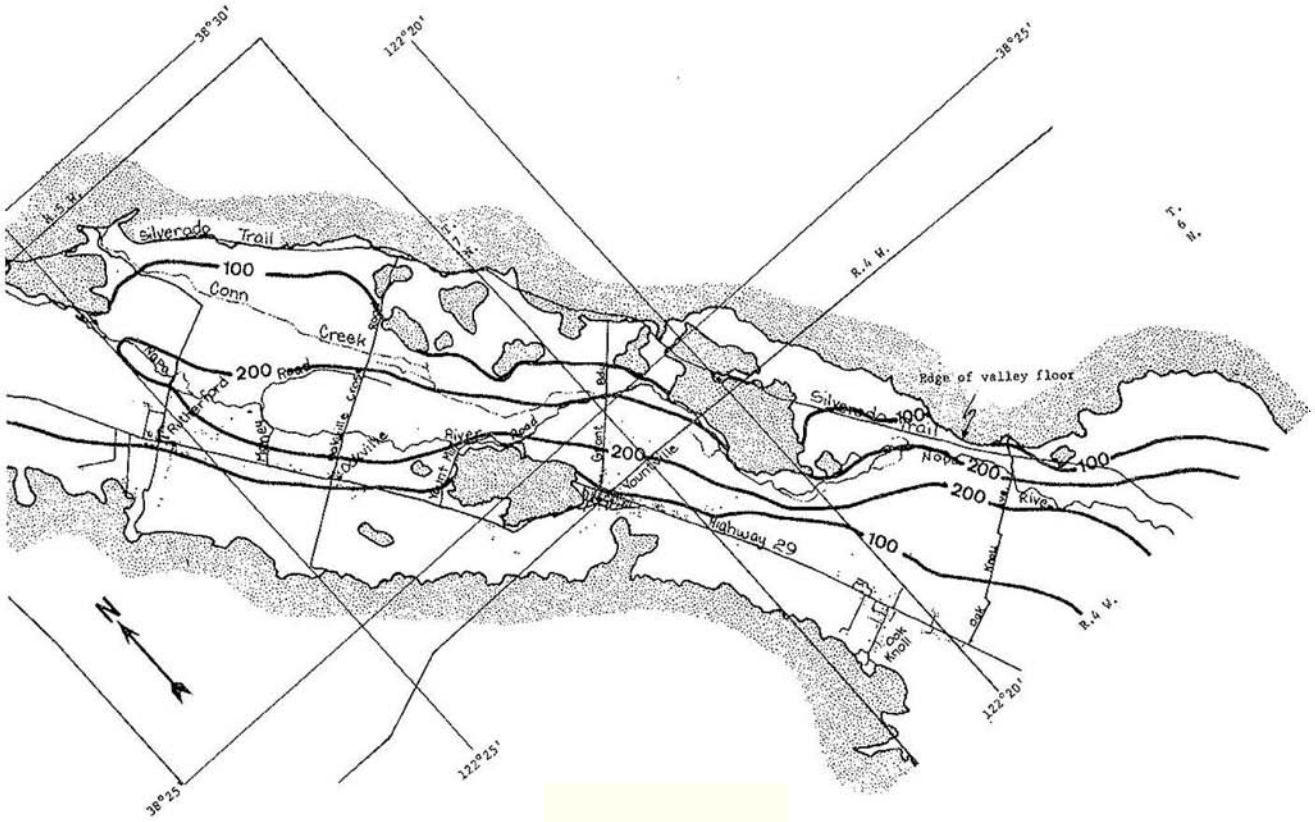
Faye, 1973

C:\JobFiles\091012 - Napa County Big Report\Fig 2.6 Faye K.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

Figure 2.6
Distribution of K in Northern Napa Valley
Napa, CA



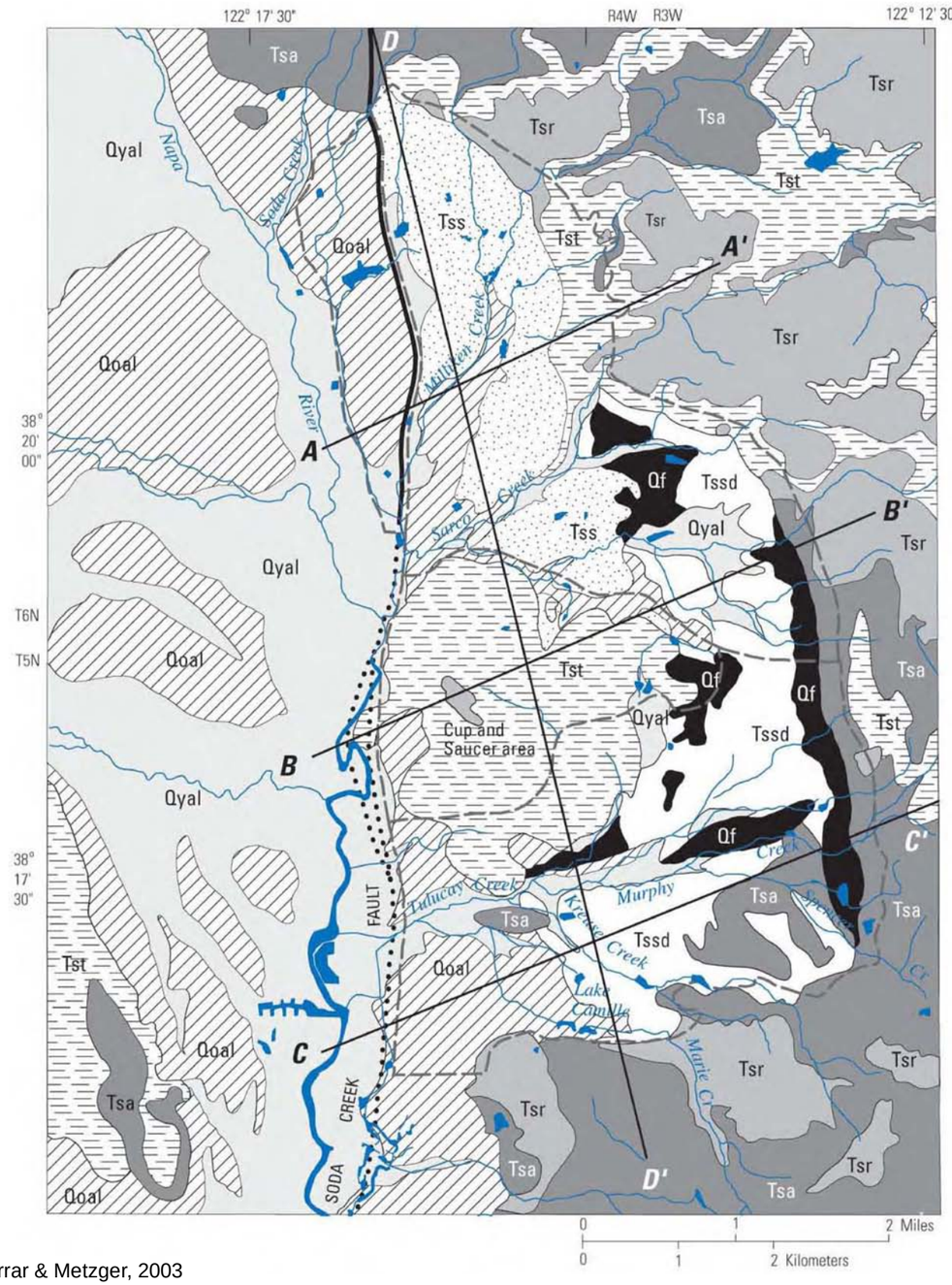


Faye, 1973

C:\JobFiles\091012 - Napa County Big Report\Fig 2.6 Faye Thick.mxd

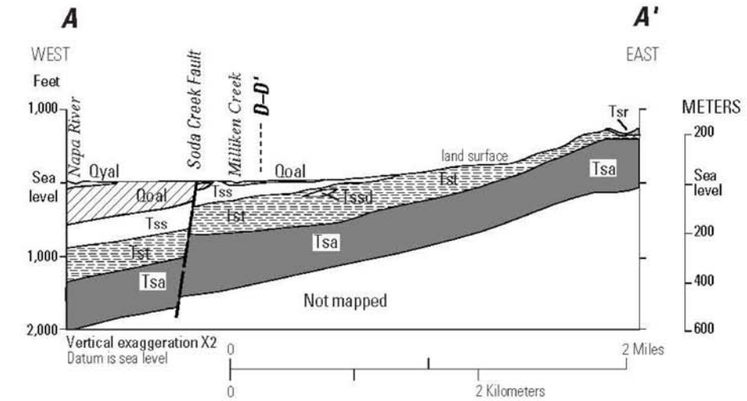
LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

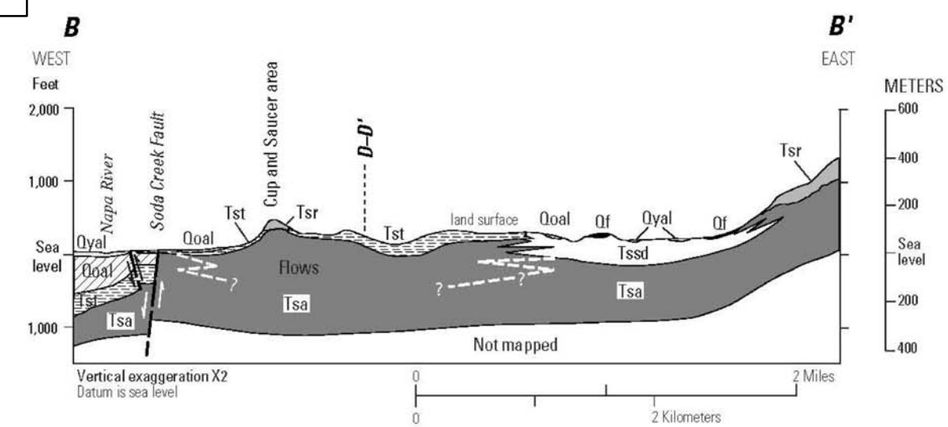
Figure 2.7
Isopach Map for Alluvium in Northern Napa Valley
Napa, CA

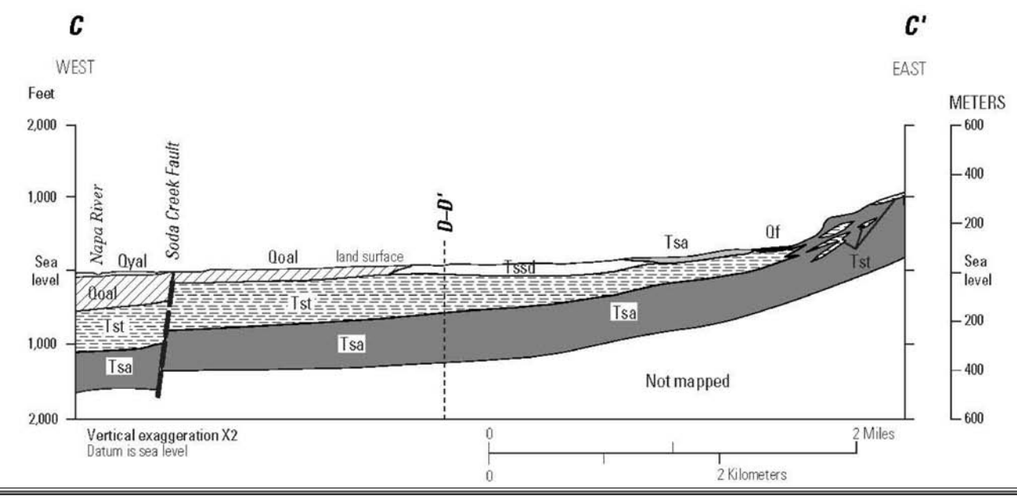


Geologic Units

- Qyal - Younger Alluvium (Quaternary)
- Qoal - Older Alluvium (Quaternary)
- Qf - Alluvial Fan Deposits (Quaternary)
- Tsa - Sonoma Volcanics - Andesitic Member (Tertiary)
- Tsr - Sonoma Volcanics - Ryolitic Member (Tertiary)
- Tst - Sonoma Volcanics - Tuffaceous Member
- Tss - Sonoma Volcanics - Sedimentary Deposits (Tertiary)
- Tssd - Sonoma Volcanics - Diatomaceous Deposits (Tertiary)





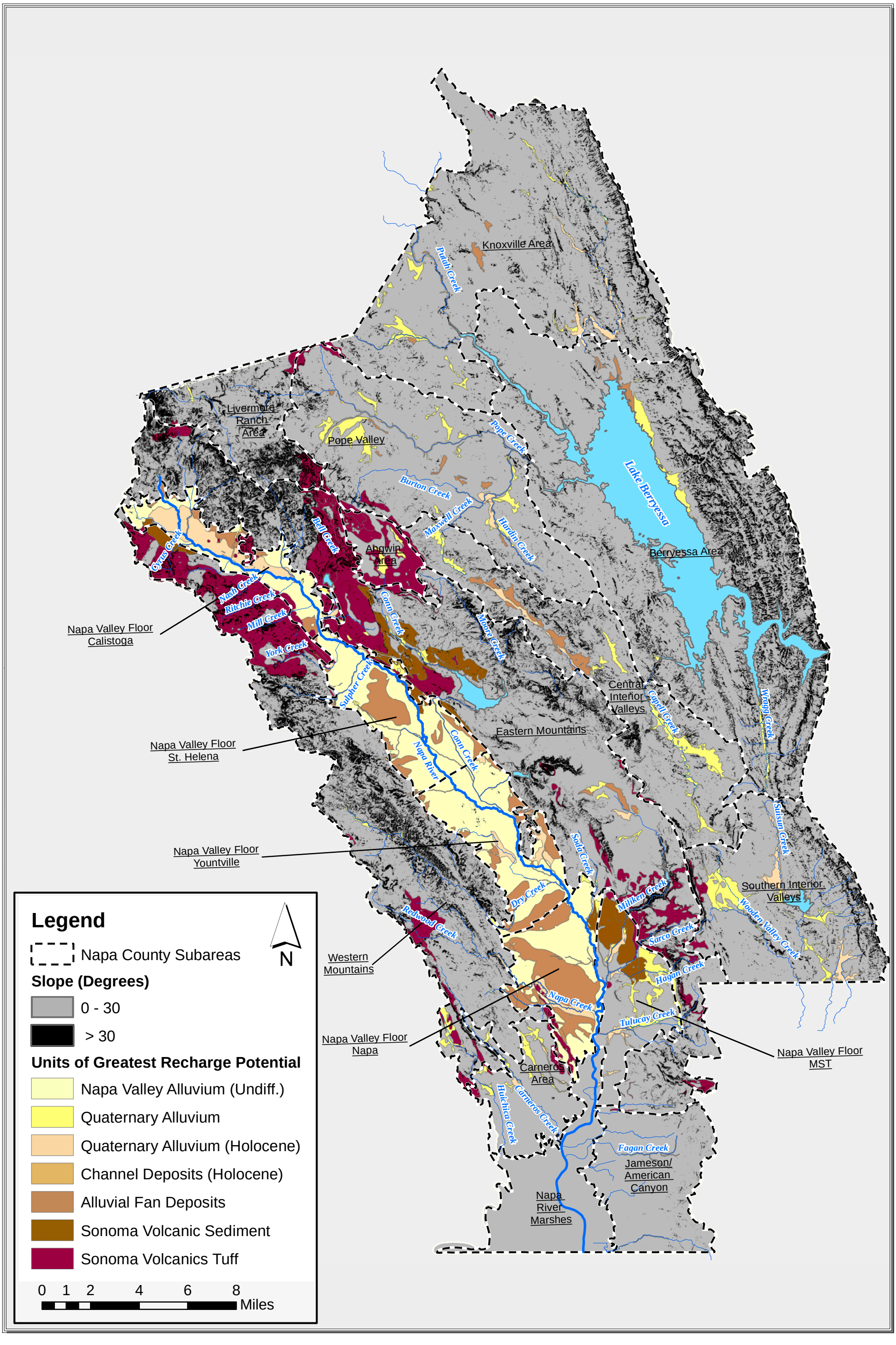


Farrar & Metzger, 2003

File: C:\JobFiles\091012 - Napa County Big Report\Fig 2.8 MST X-sections.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

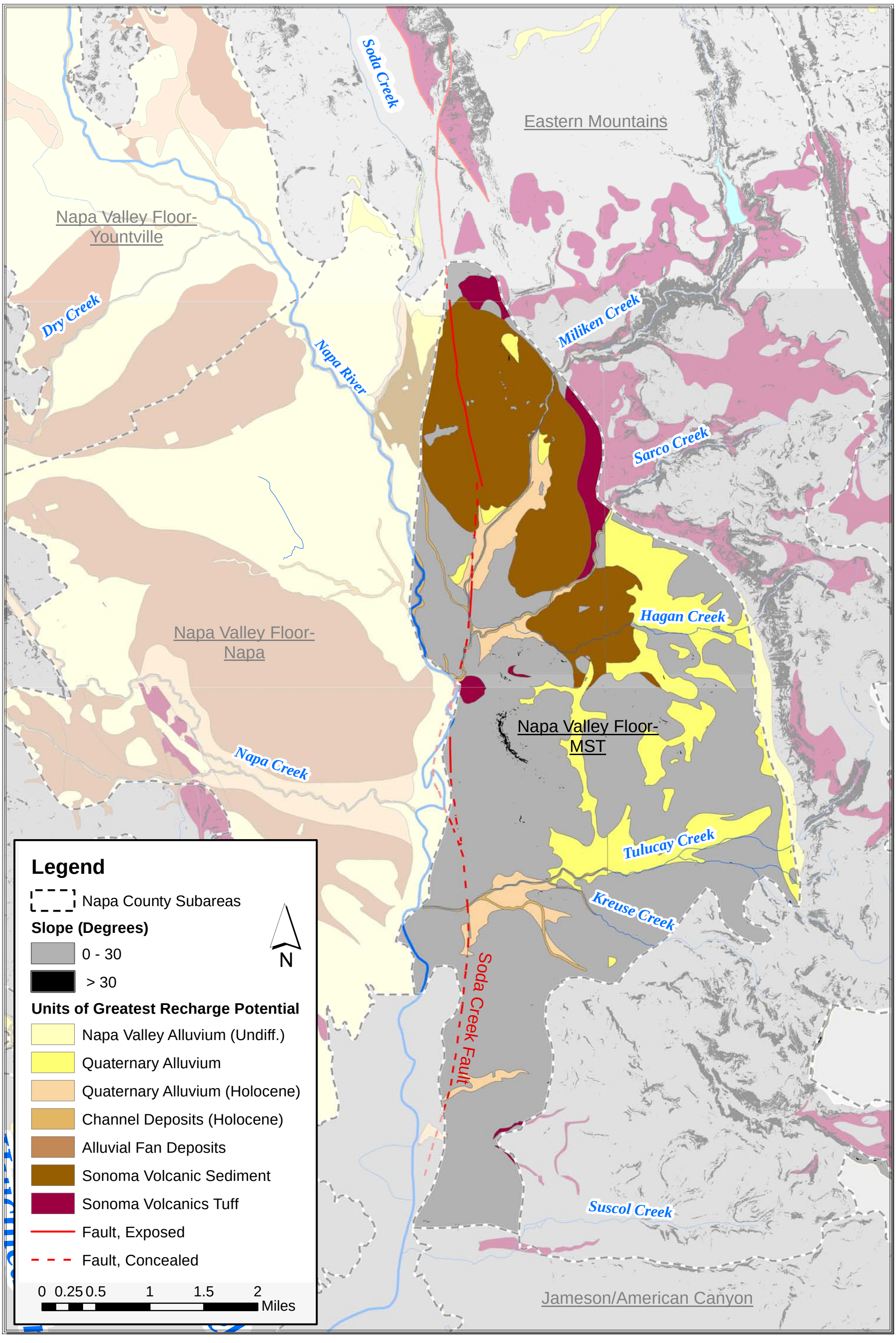
Figure 2.8
Map and Cross Sections of MST
Napa, CA



File: X:\2009 Job Files\09-012\Data\GIS\Recharge\Fig2.6.1-CountyRechargePotential.mxd Date: 9/8/2010

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

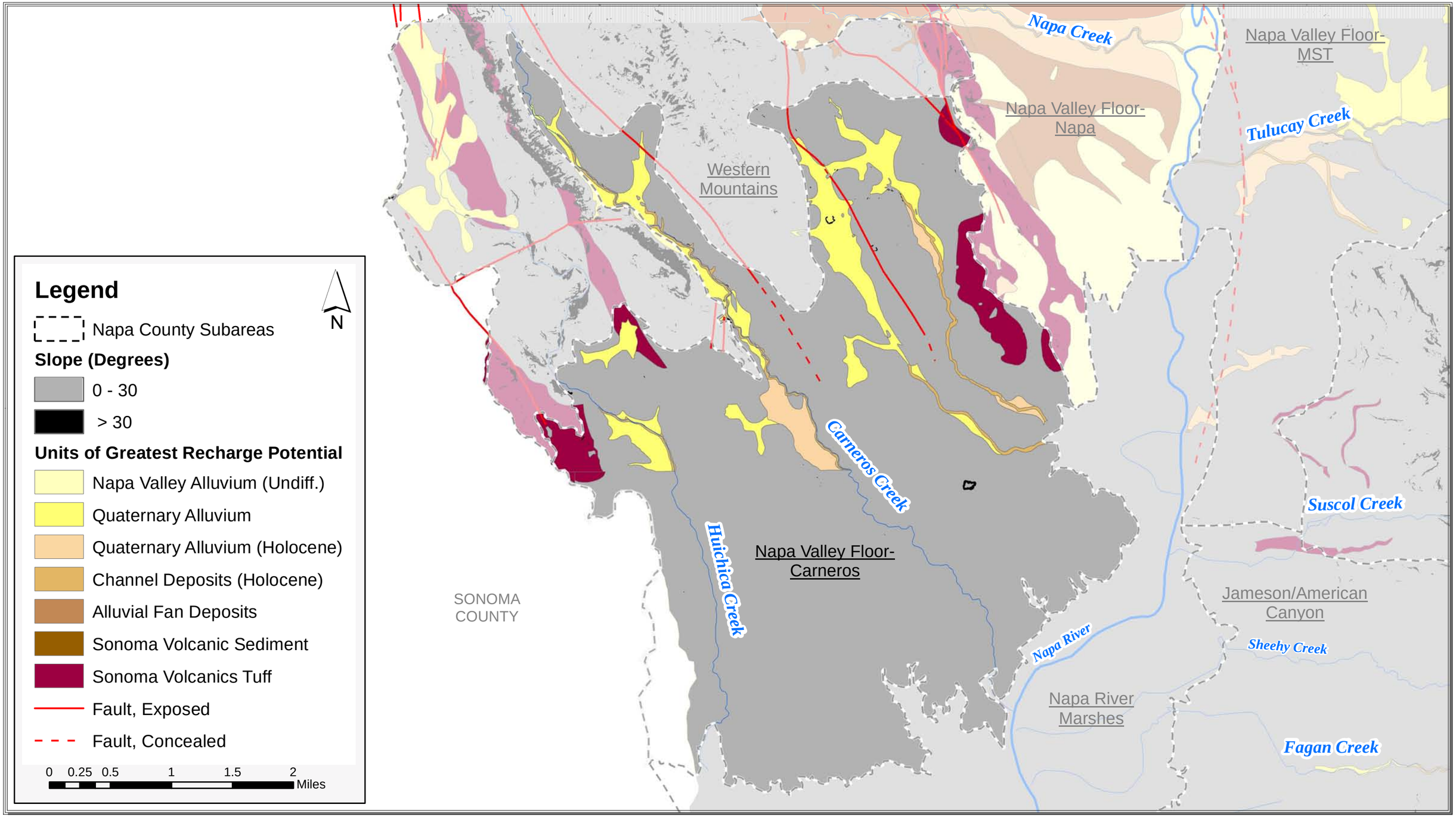
Figure 2.9
Geologic Units of Greatest Recharge Potential
Napa County, CA



File: X:\2009 Job Files\09-012\Data\GIS\Recharge\Fig 2.6.2-MSTRecharge.mxd Date: 9/8/2010

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

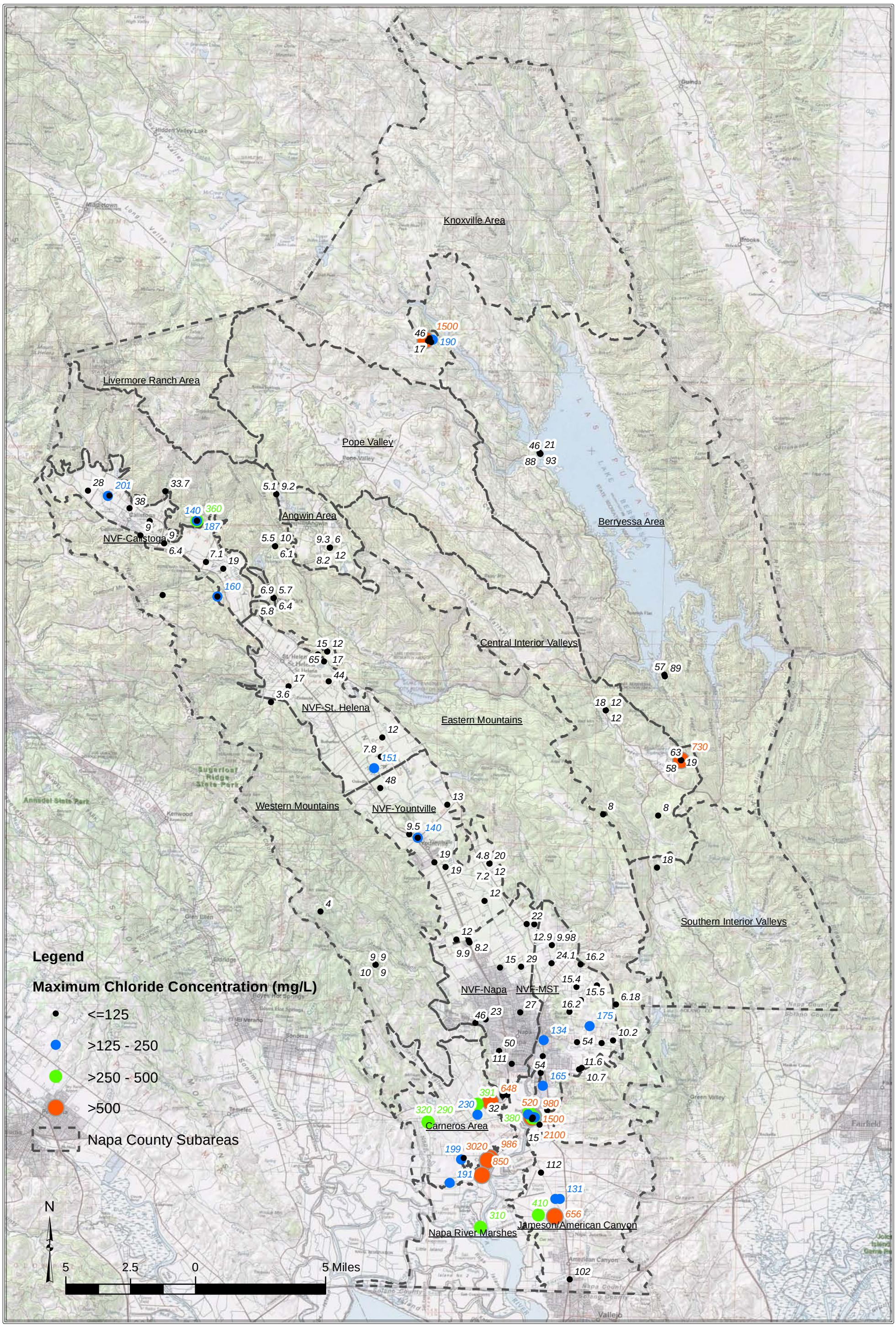
Figure 2.10
Geologic Units of Greatest Recharge Potential - MST
Napa County, CA



File: X:\2009 Job Files\09-012\Data\GIS\Recharge\Fig 2.6.3-CarnerosRecharge.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

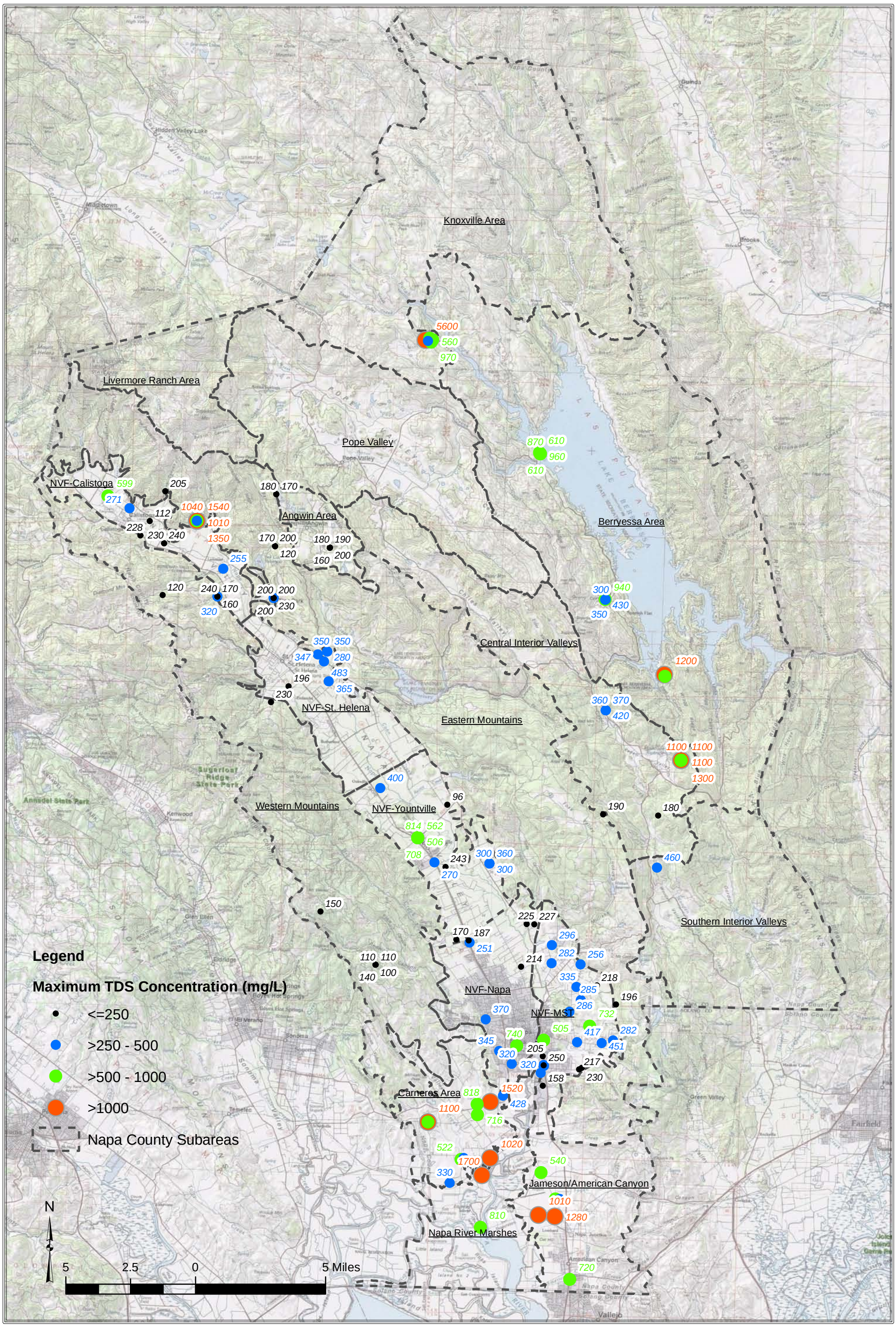
Figure 2.11
Geologic Units of Greatest Recharge Potential - Carneros
Napa County, CA



File: X:\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

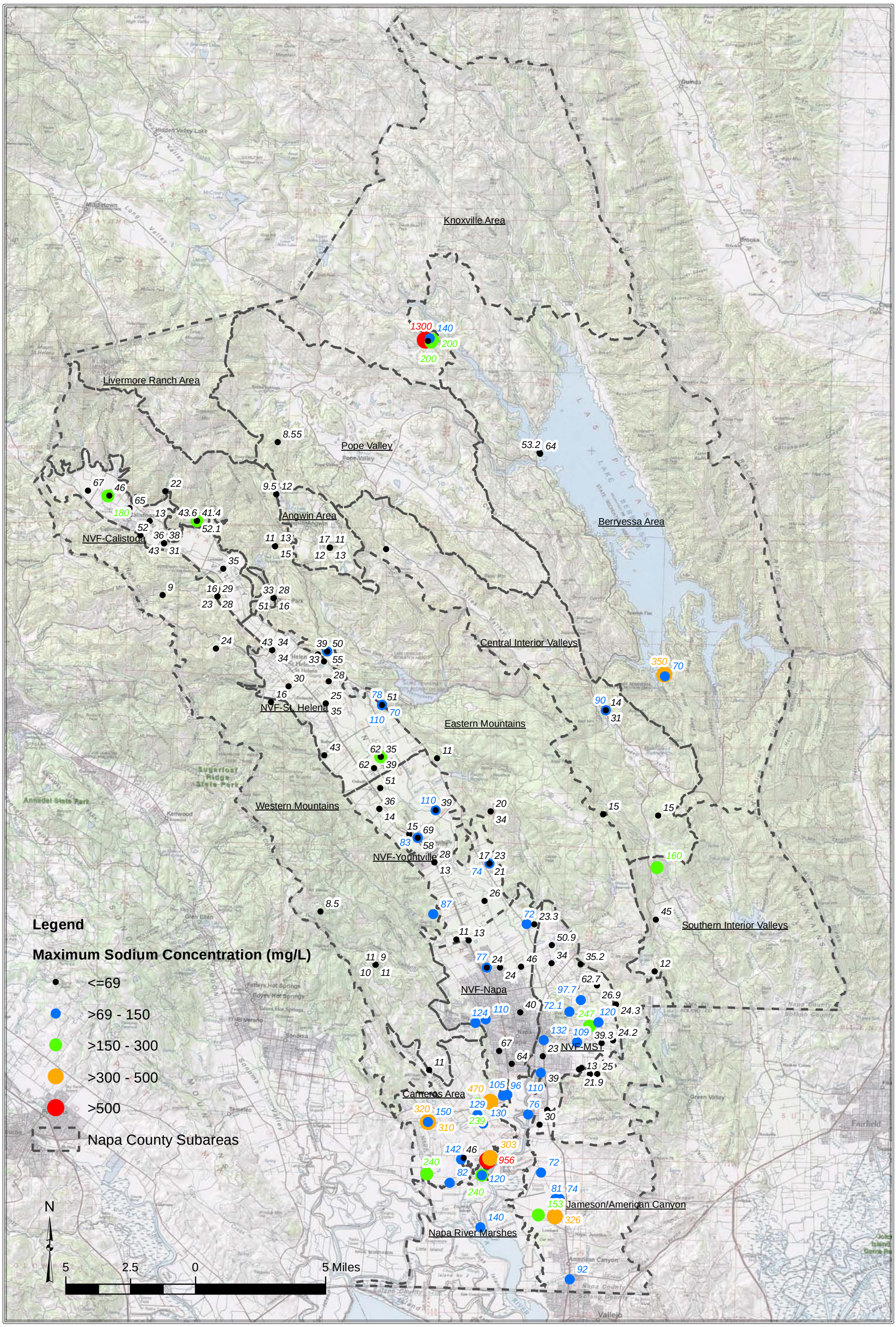
Figure 2.12
Maximum Chloride Concentrations
Groundwater Quality - Napa County



File: X:\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

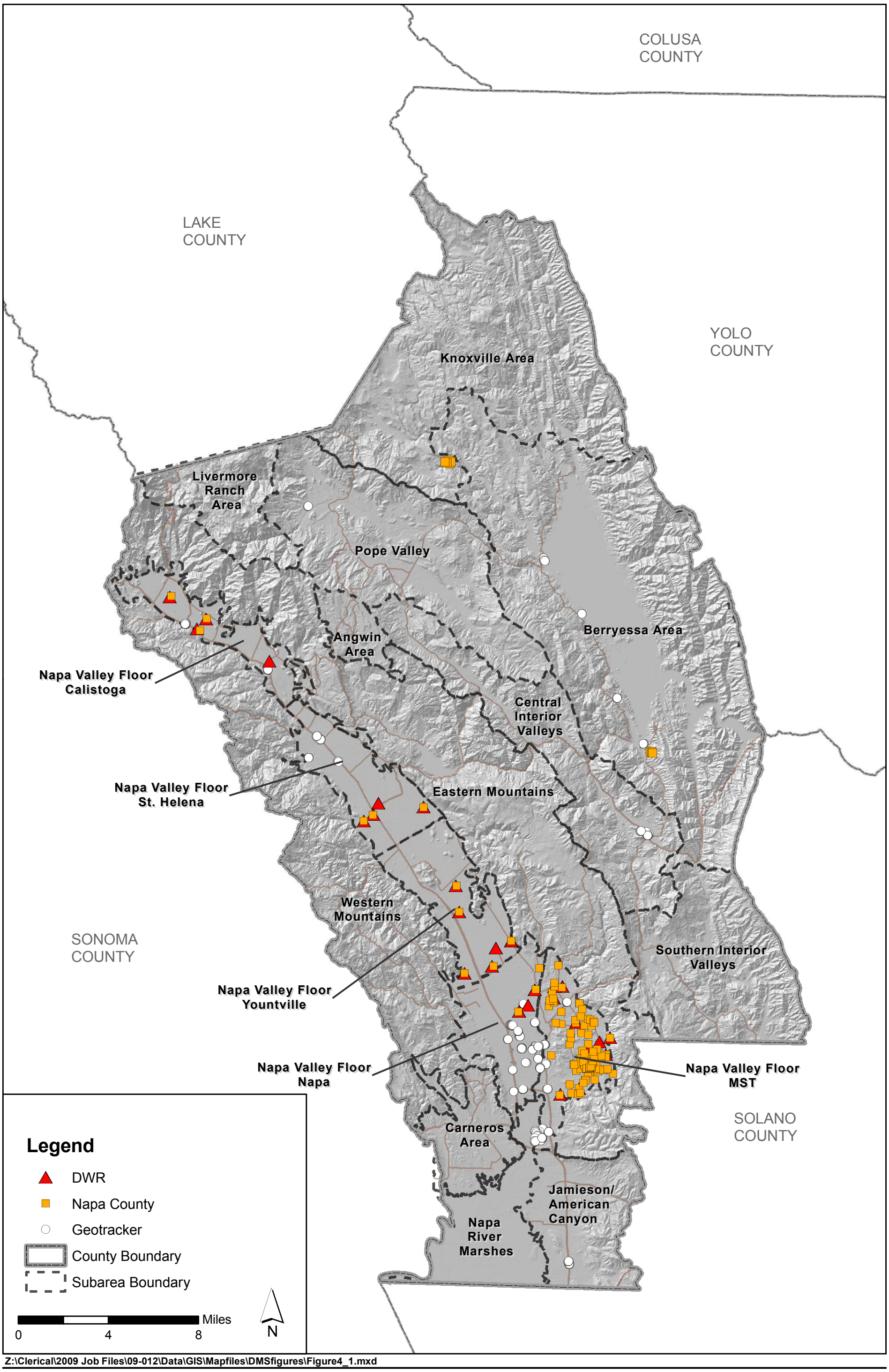
Figure 2.13
Maximum TDS Concentrations
Groundwater Quality - Napa County



File: X:\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

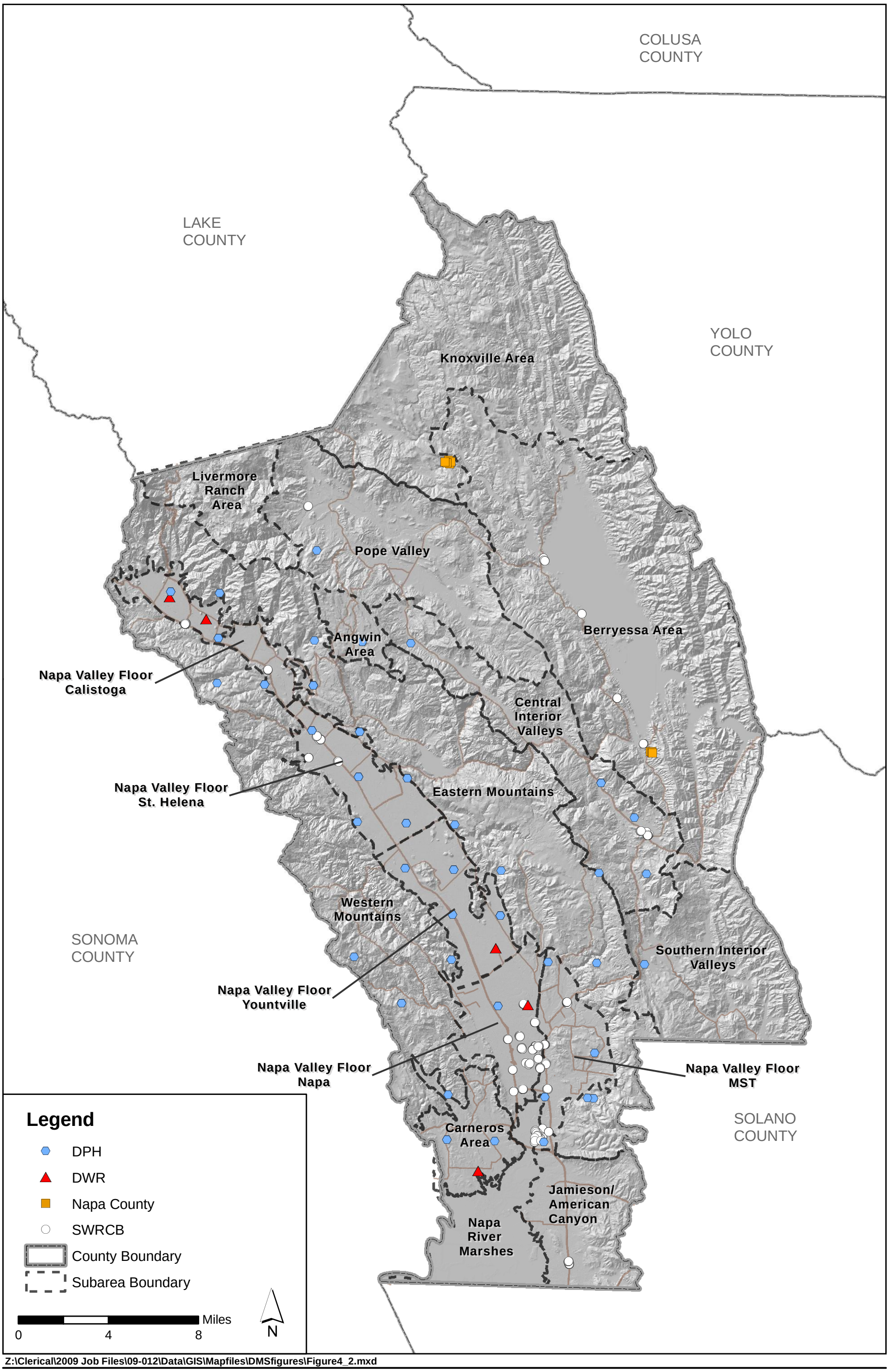
Figure 2.14
Maximum Sodium Concentrations
Groundwater Quality - Napa County



Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\DMSfigures\Figure4_1.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

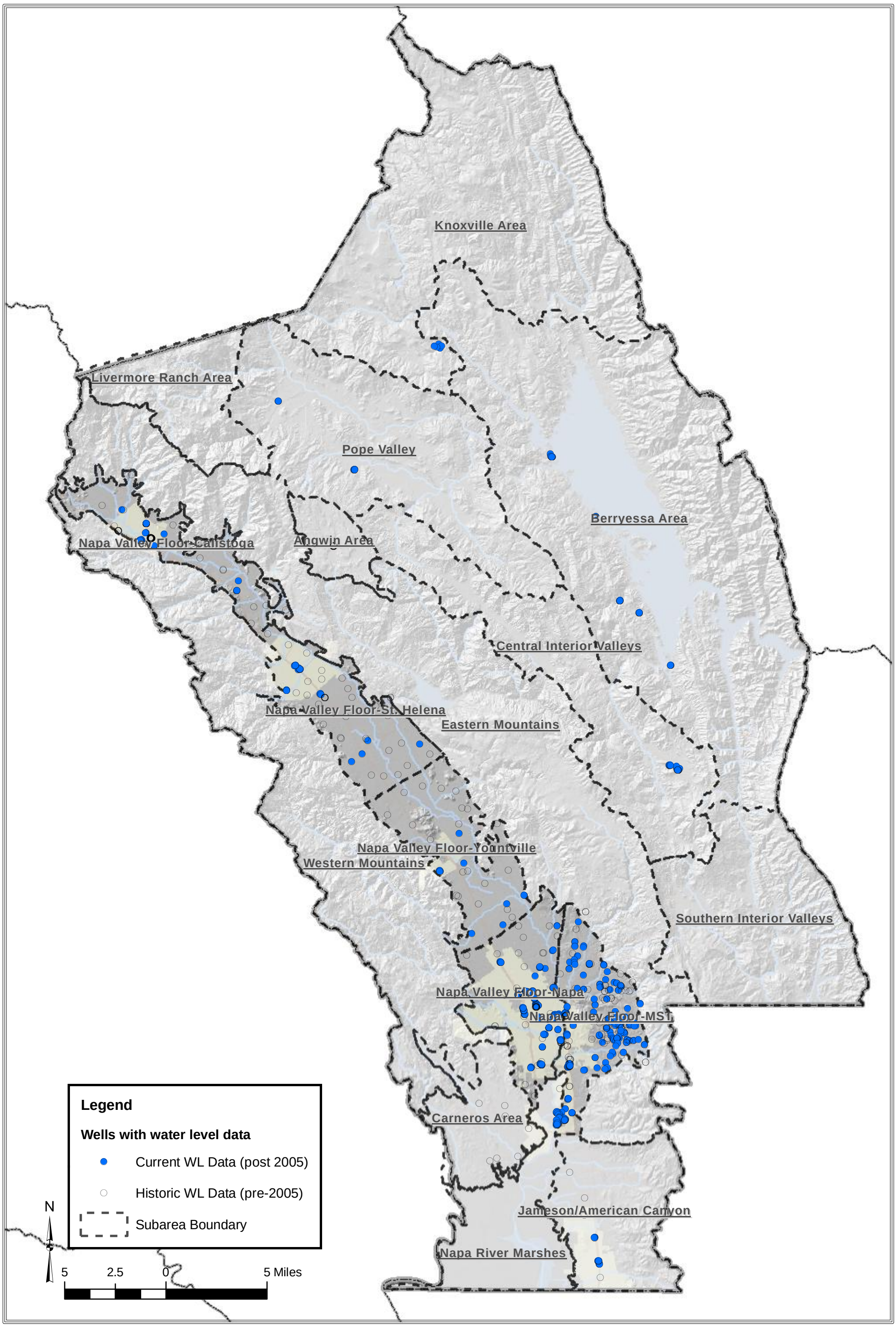
Figure 3.1
Groundwater Level Monitoring Network
Napa County, CA



Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\DMSfigures\Figure4_2.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

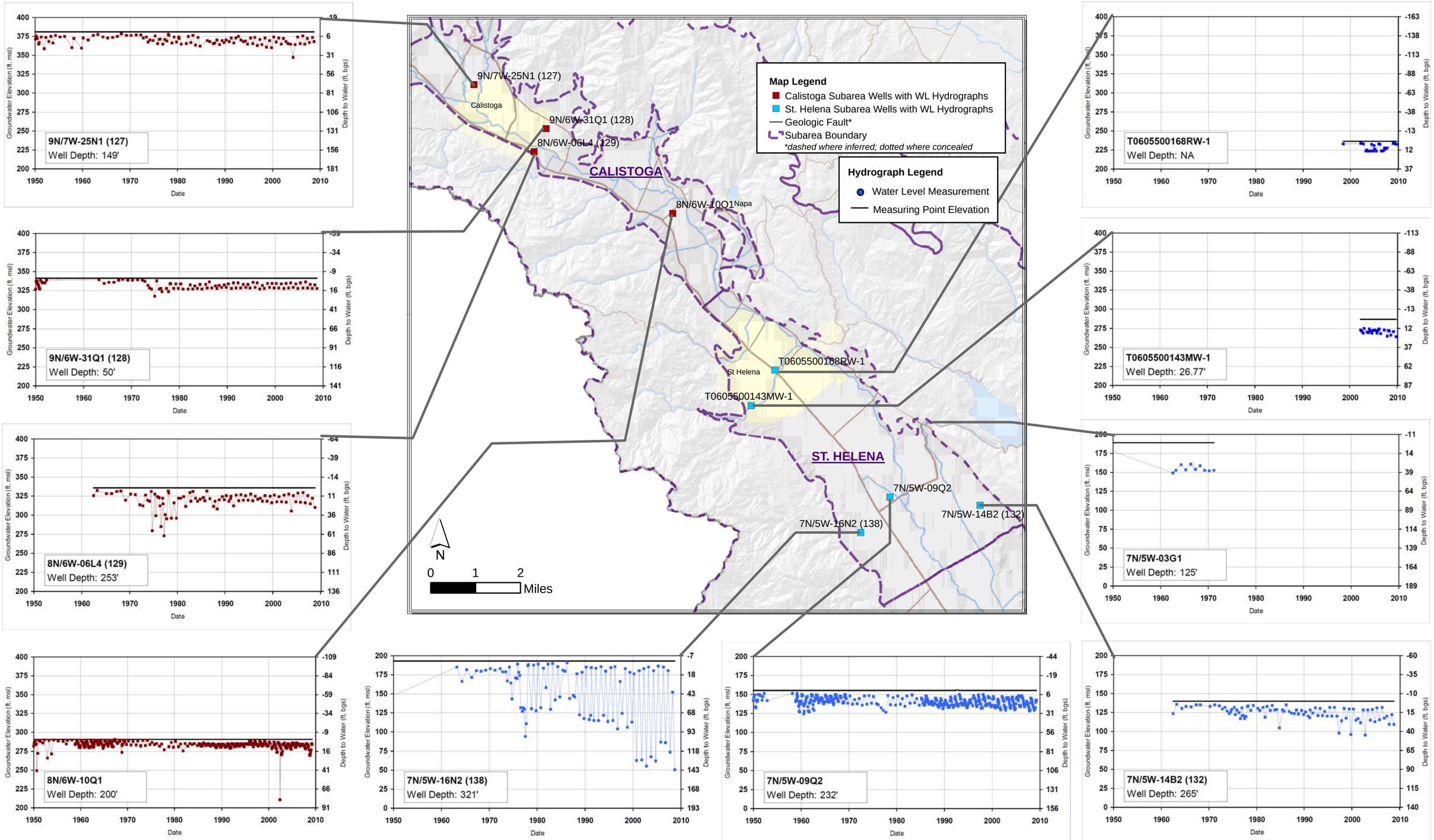
Figure 3.2
Current Groundwater Quality Monitoring Network
Napa County, CA



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\WLWQWellLocations.mxd Date: 9/10/2010

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

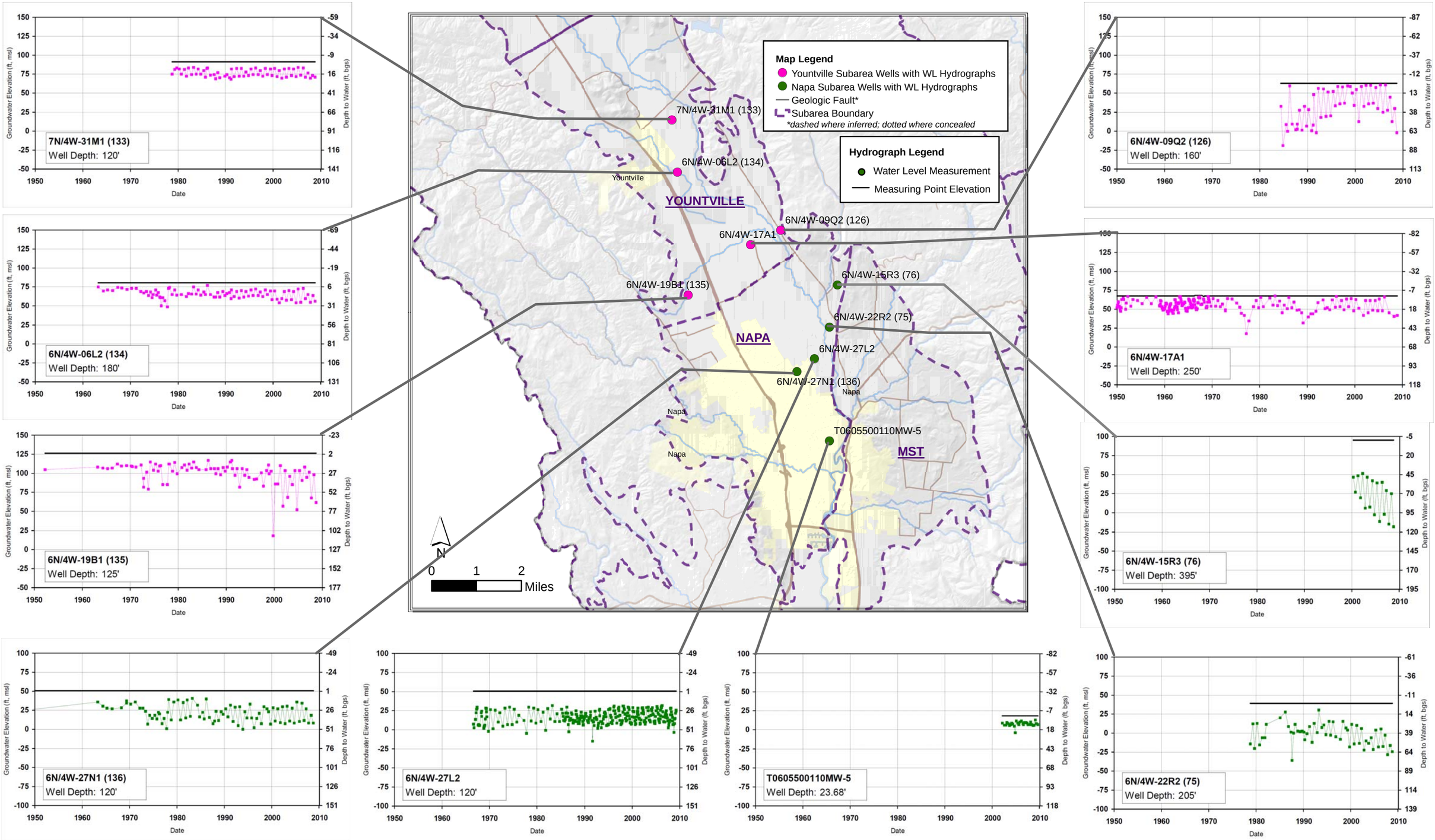
Figure 4.1
Well Location Map
Wells with Water Level Data
Napa County



Path: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\Figure4_2WL_HydrographNorthernNapaValley.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

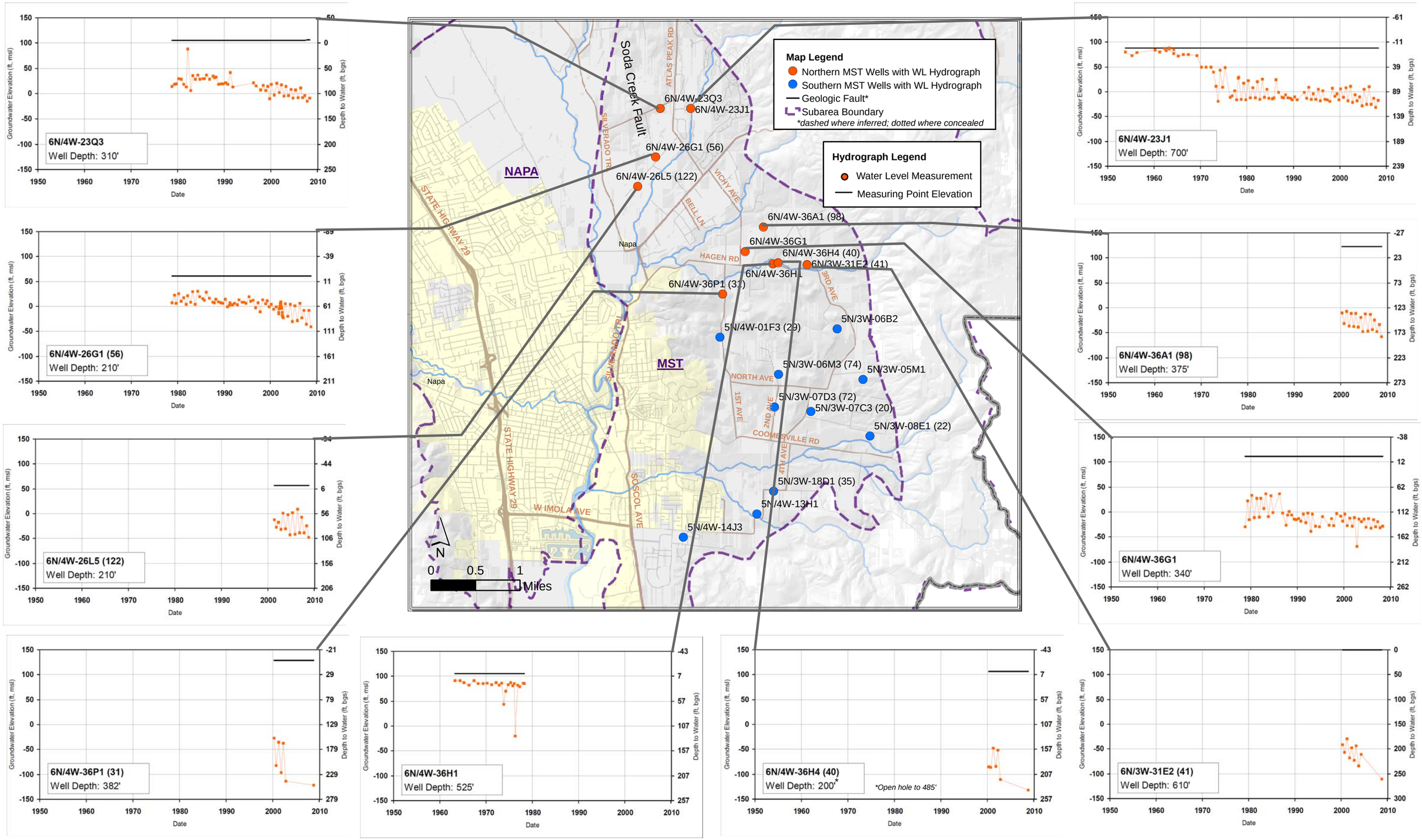
Figure 4.2
Representative Hydrographs for Northern Napa Valley Groundwater Elevations - Napa County



Path: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\Figure4_3WL_HydrographSouthernNapaValley.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

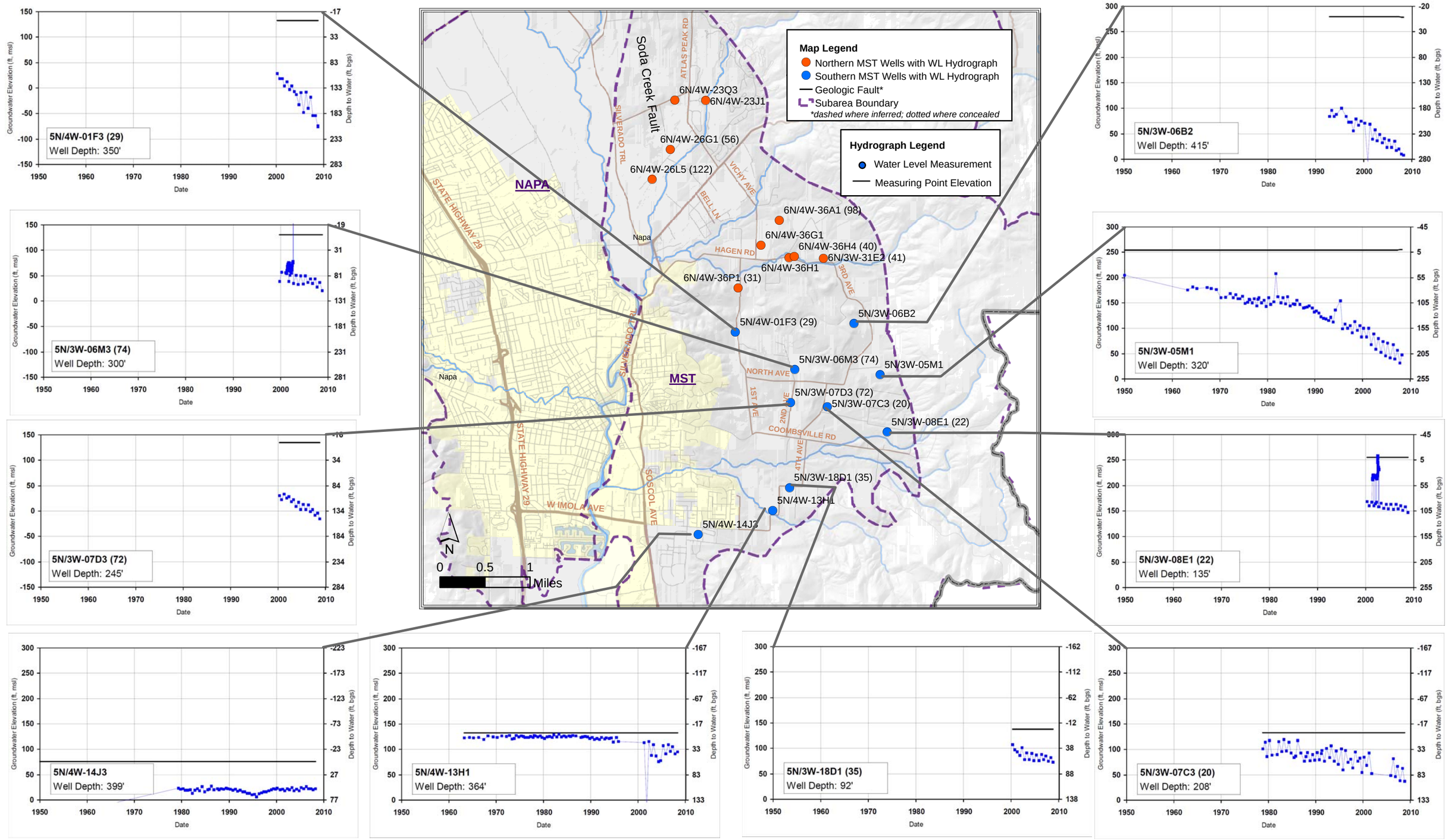
Figure 4.3
Representative Hydrographs for Southern Napa Valley Groundwater Elevations - Napa County



Path: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\Figure4_4WL_HydrographNorthernMST.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

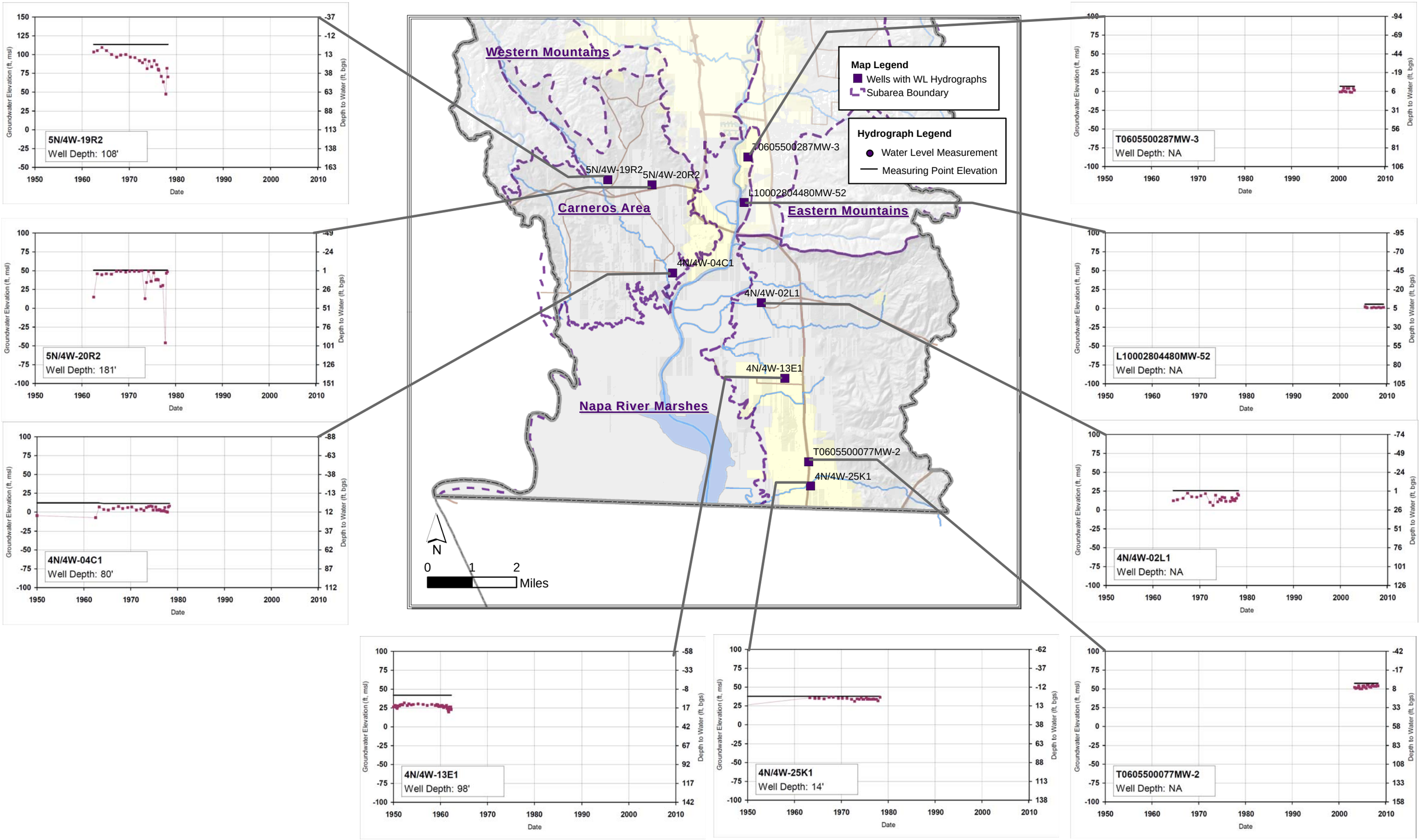
Figure 4.4
Representative Hydrographs for Northern MST Area Groundwater Elevations - Napa County



Path: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\Figure4_5WL_HydrographsSouthernMST.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

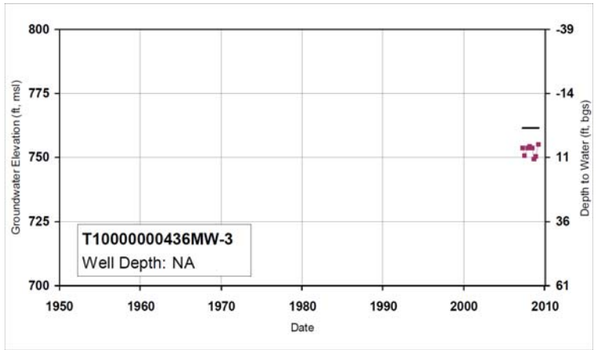
Figure 4.5
Representative Hydrographs for Southern MST Area Groundwater Elevations - Napa County

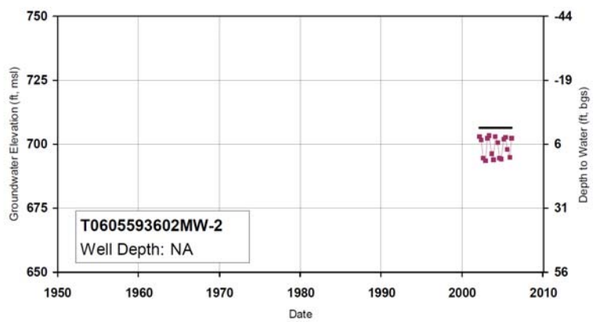


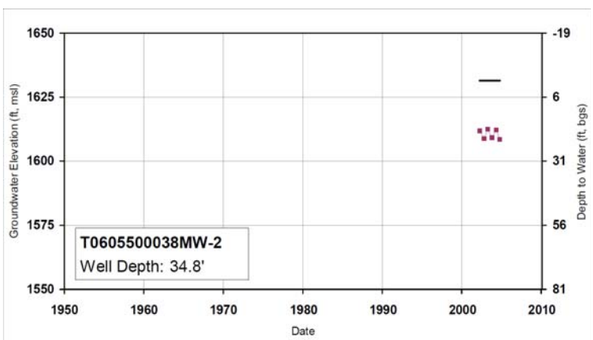
Path: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\Figure4_6WL_HydrographsSouthNapa.mxd

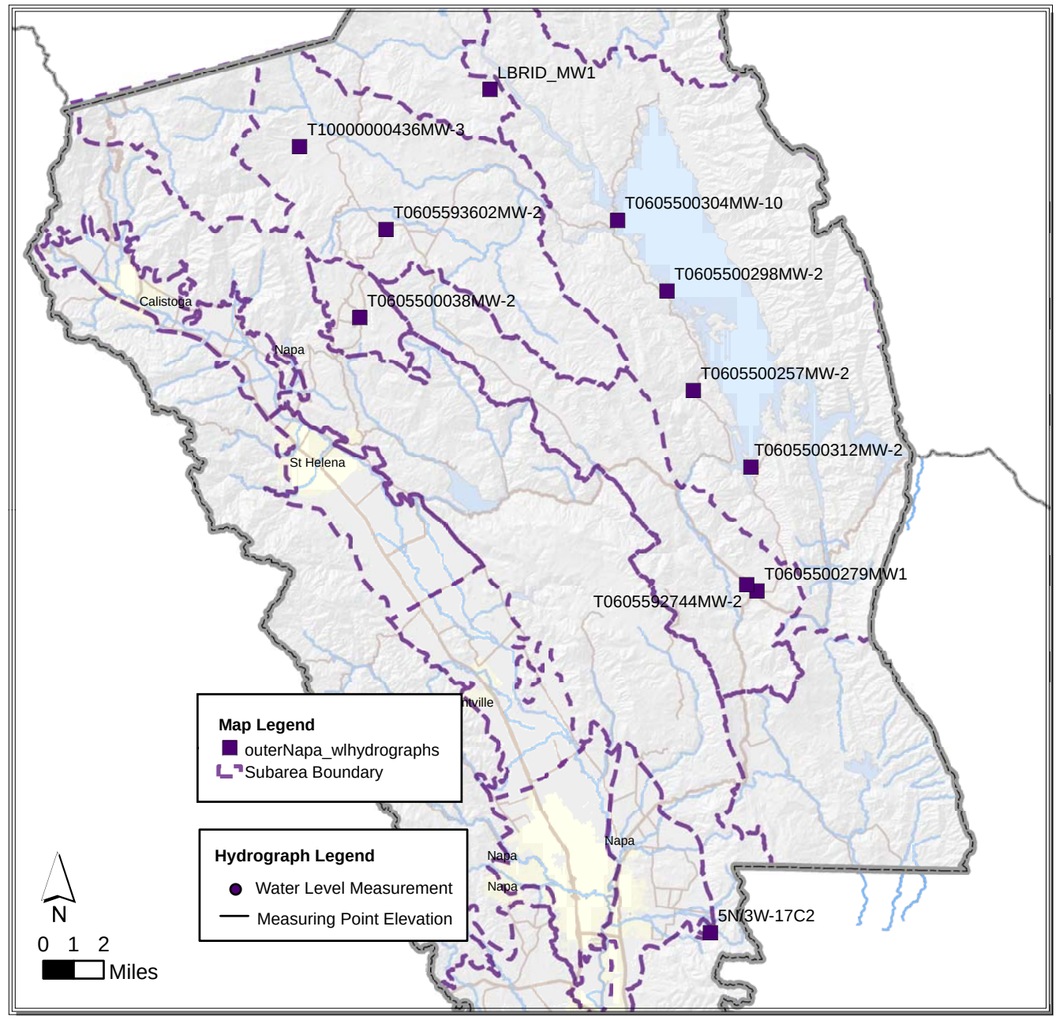
LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

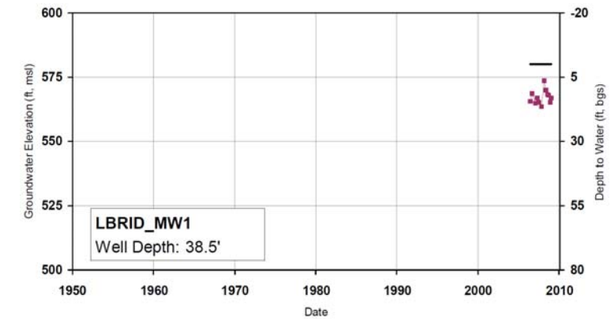
Figure 4.6
Representative Hydrographs for Subareas South of Valley Floor Groundwater Elevations - Napa County

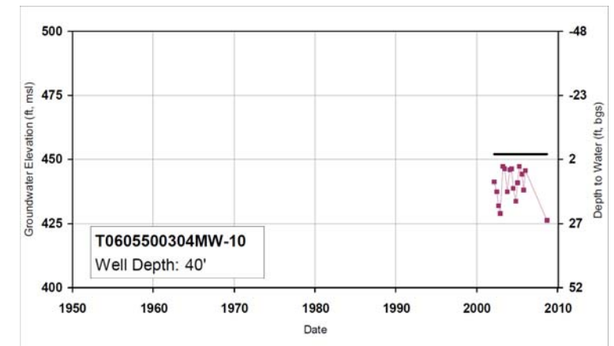


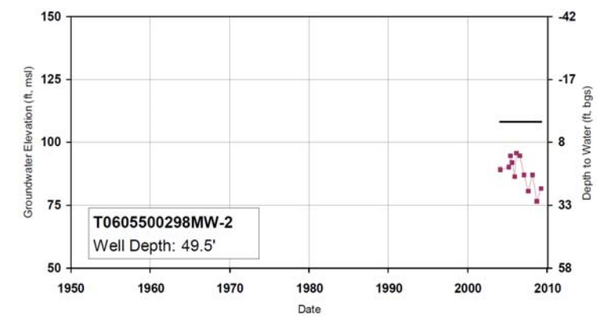


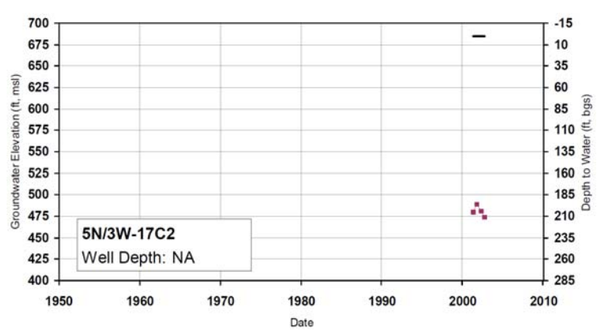


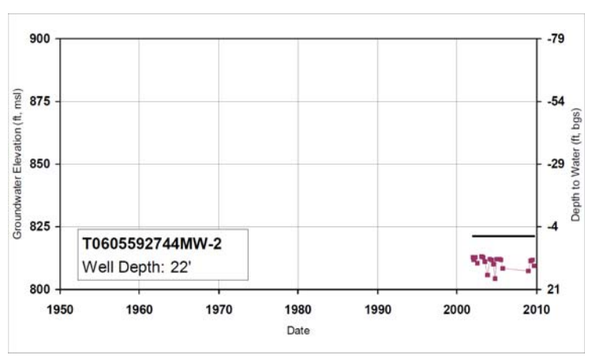


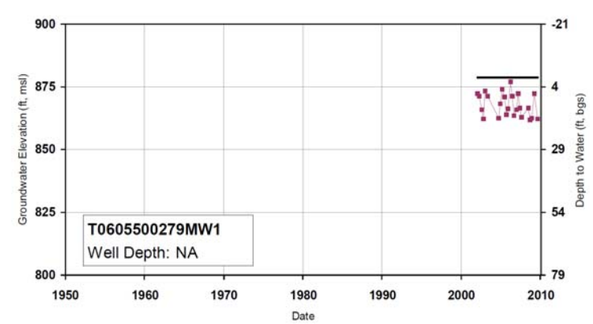


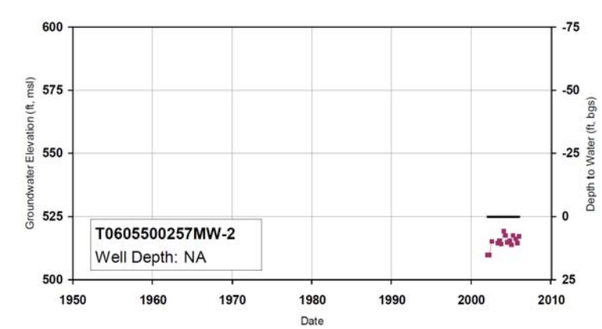








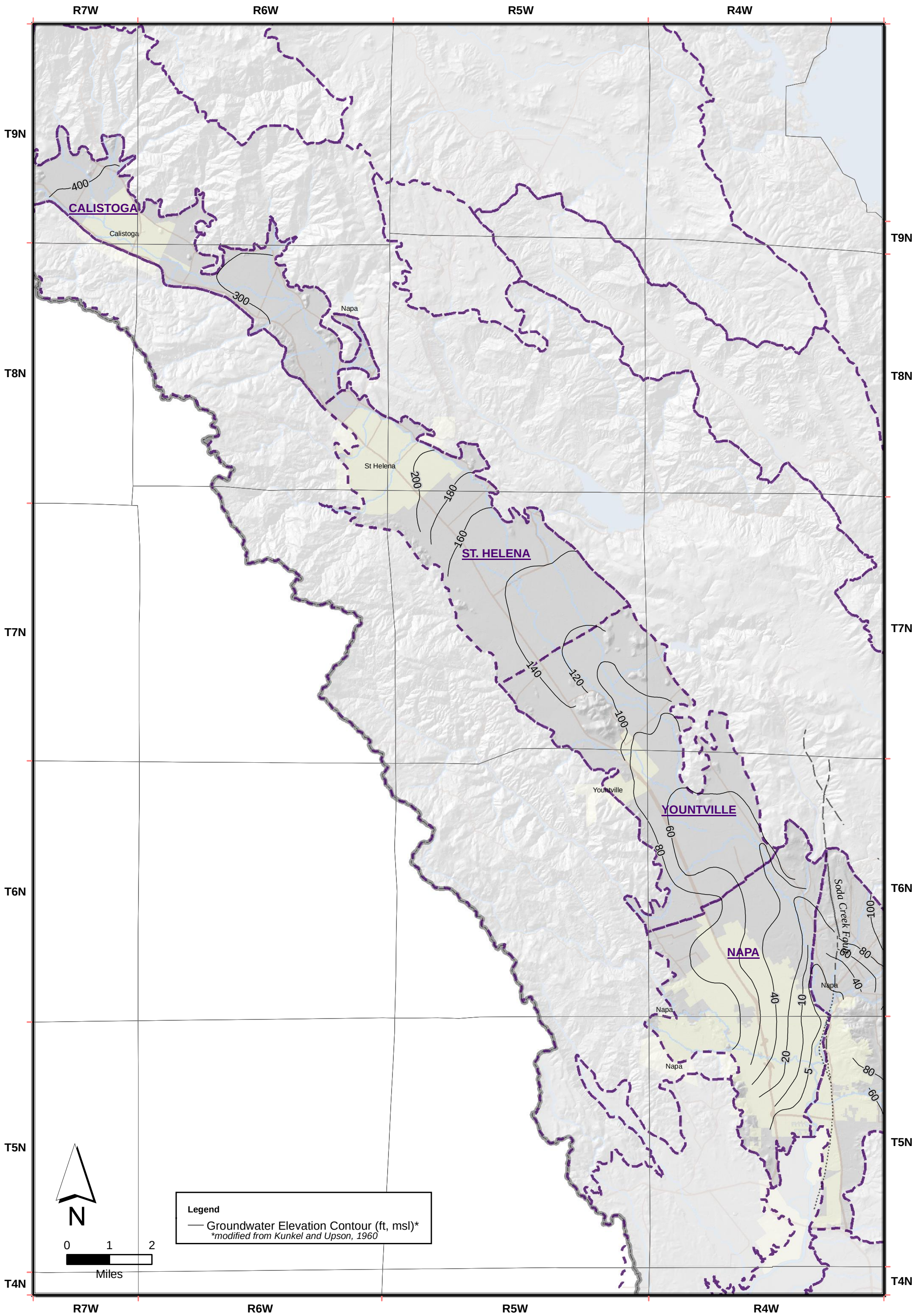




Path: X:\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\Figure4_7WL_HydrographsEastNapa.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

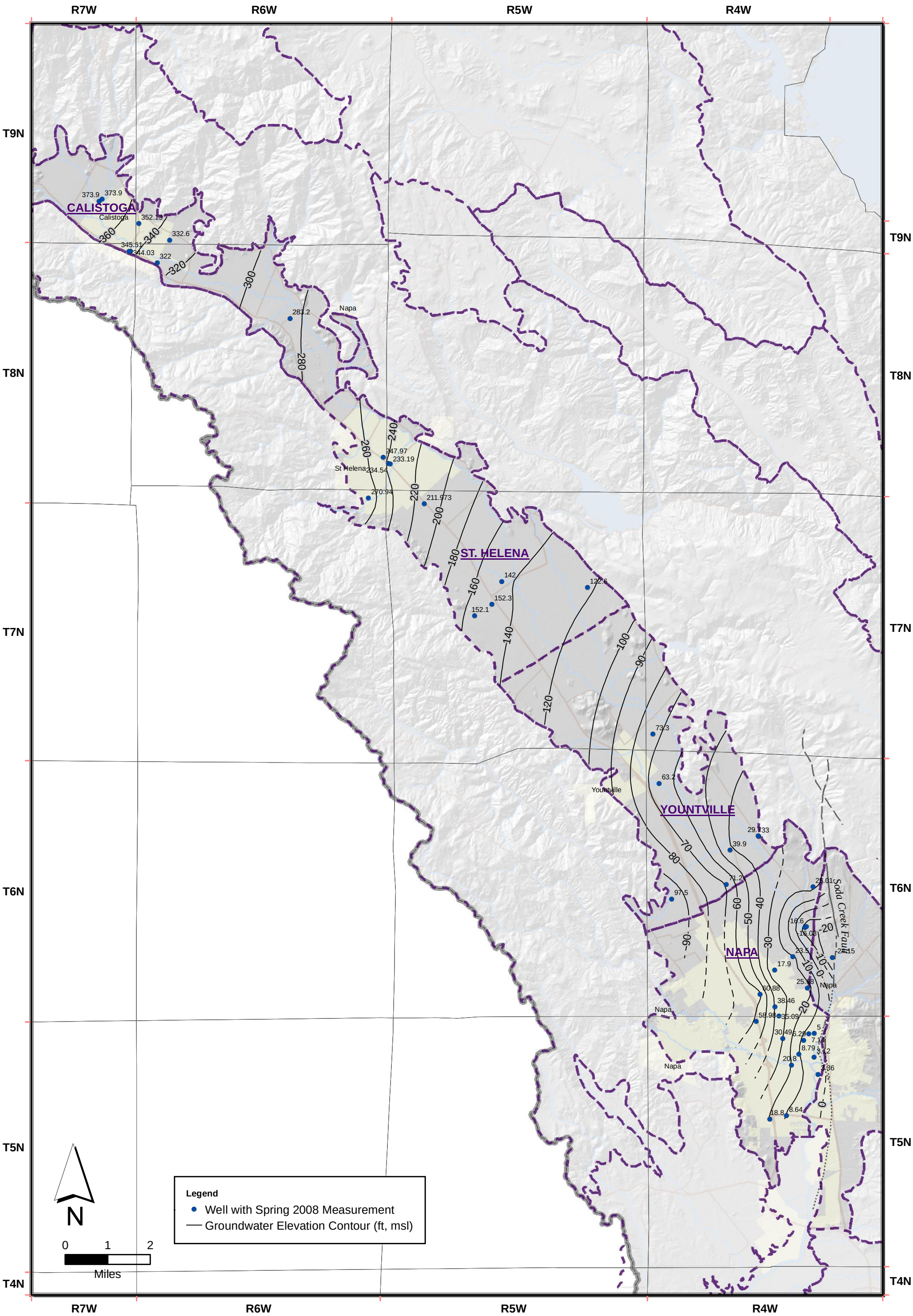
Figure 4.7
Representative Hydrographs for Subareas East of Valley Floor Groundwater Elevations - Napa County



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\NPV_WLcontours.mxd

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

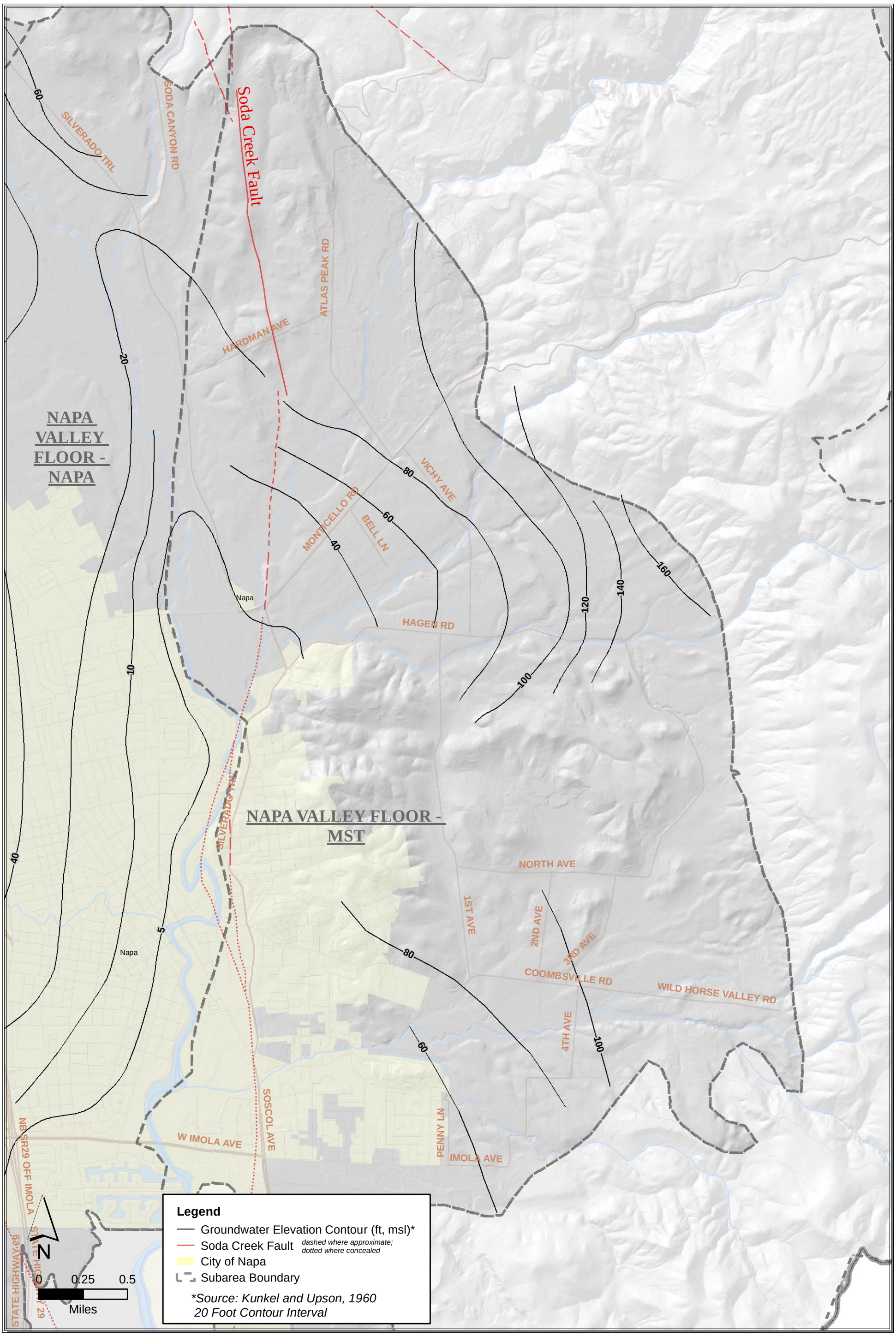
Figure 4.8
Contours of Equal Groundwater Elevation
Napa Valley, 1949/1950



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\NPV_WLcontours_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

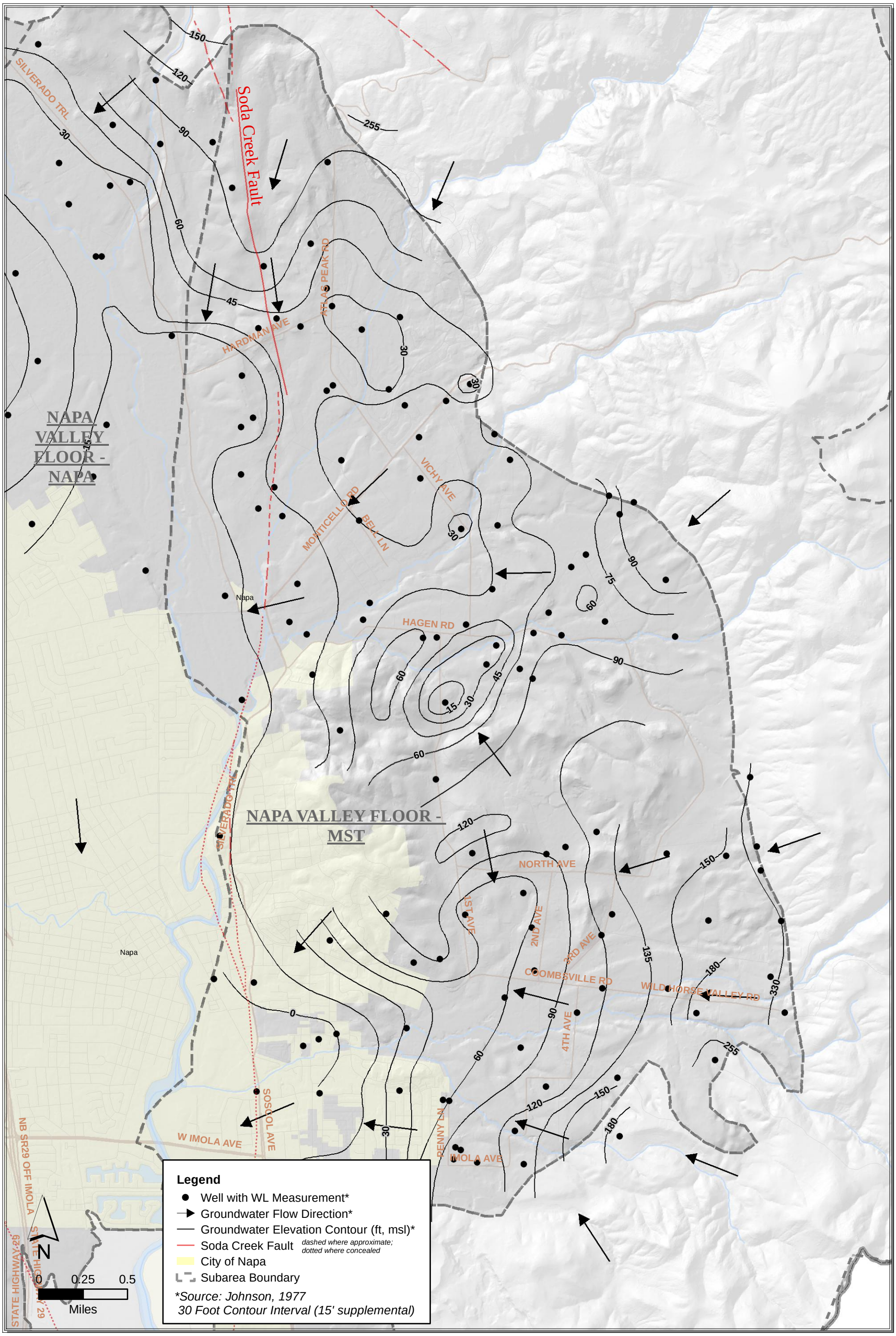
Figure 4.9
Contours of Equal Groundwater Elevation
Napa Valley, Spring 2008



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

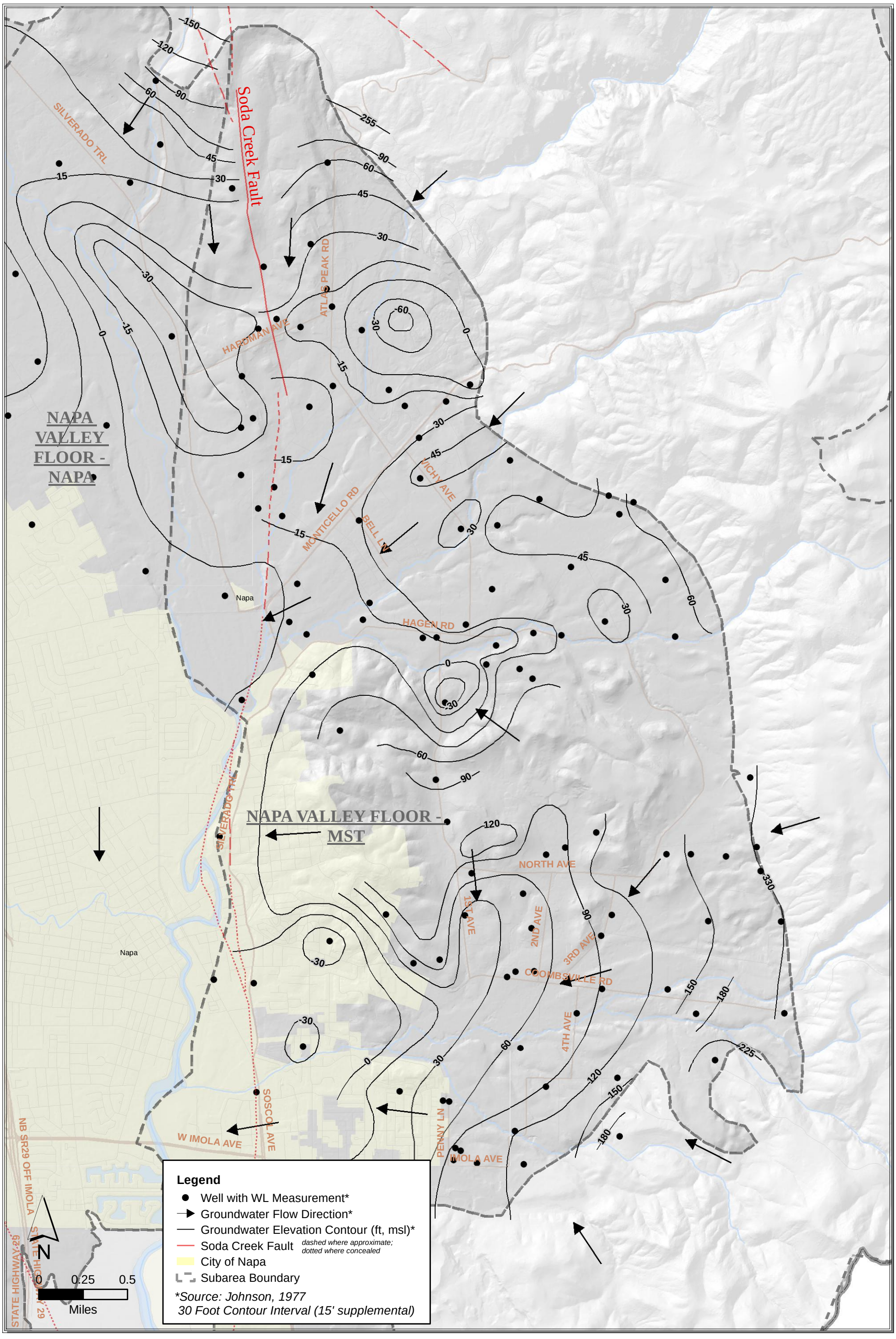
Figure 4.10
Contours of Equal Groundwater Elevation
MST Area, 1949/1950



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

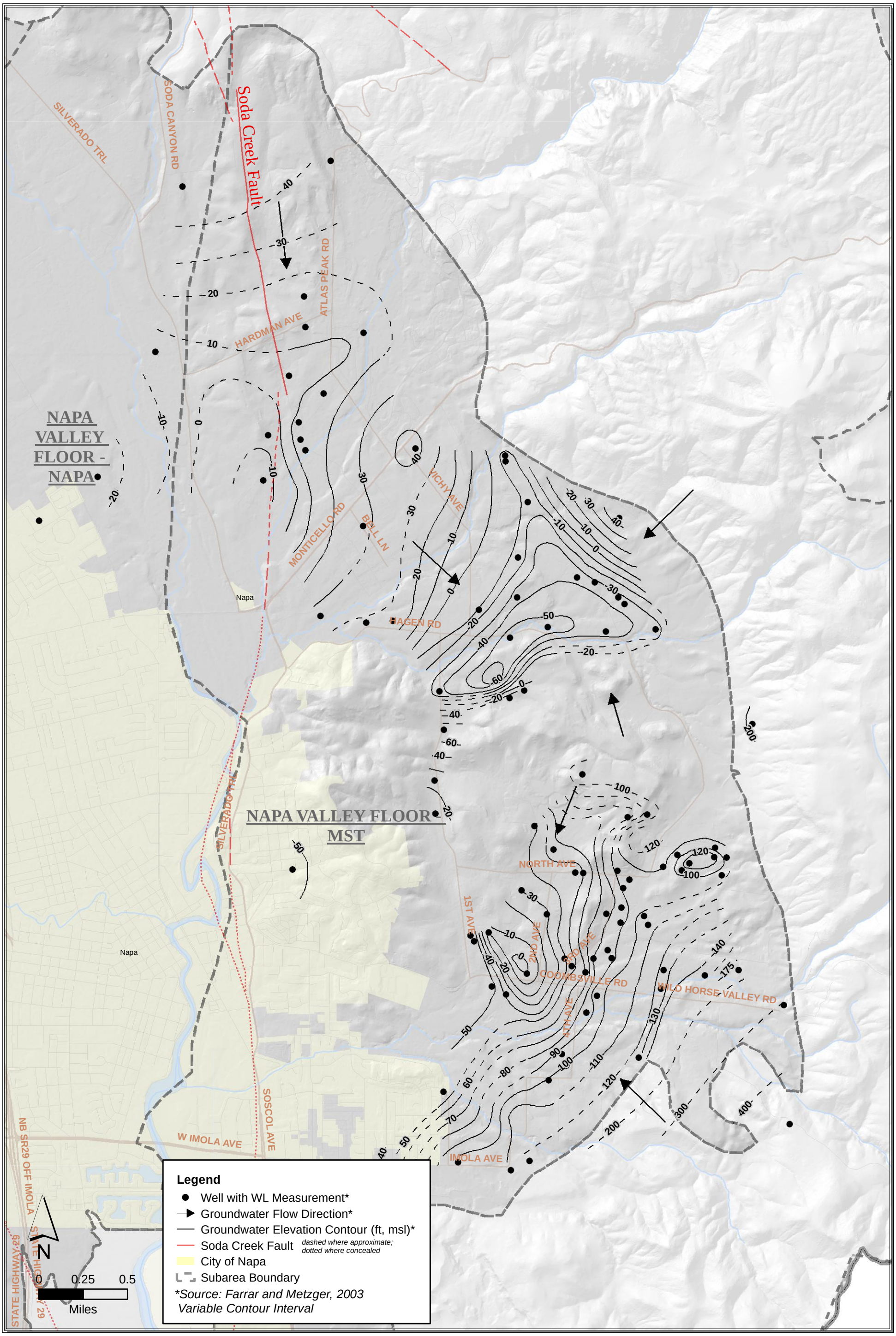
Figure 4.11
Contours of Equal Groundwater Elevation
MST Area, Spring 1975



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

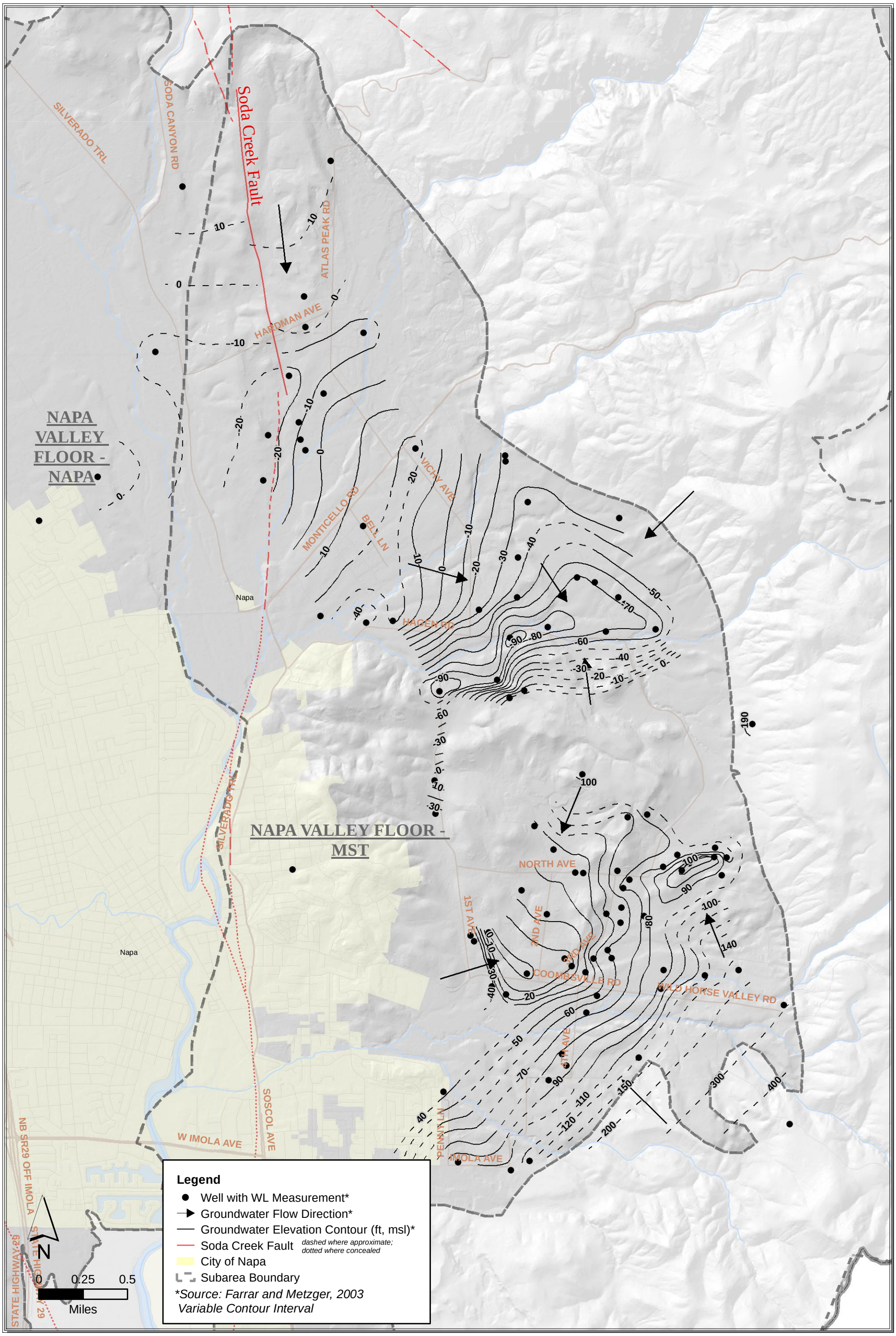
Figure 4.12
Contours of Equal Groundwater Elevation
MST Area, Fall 1975



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

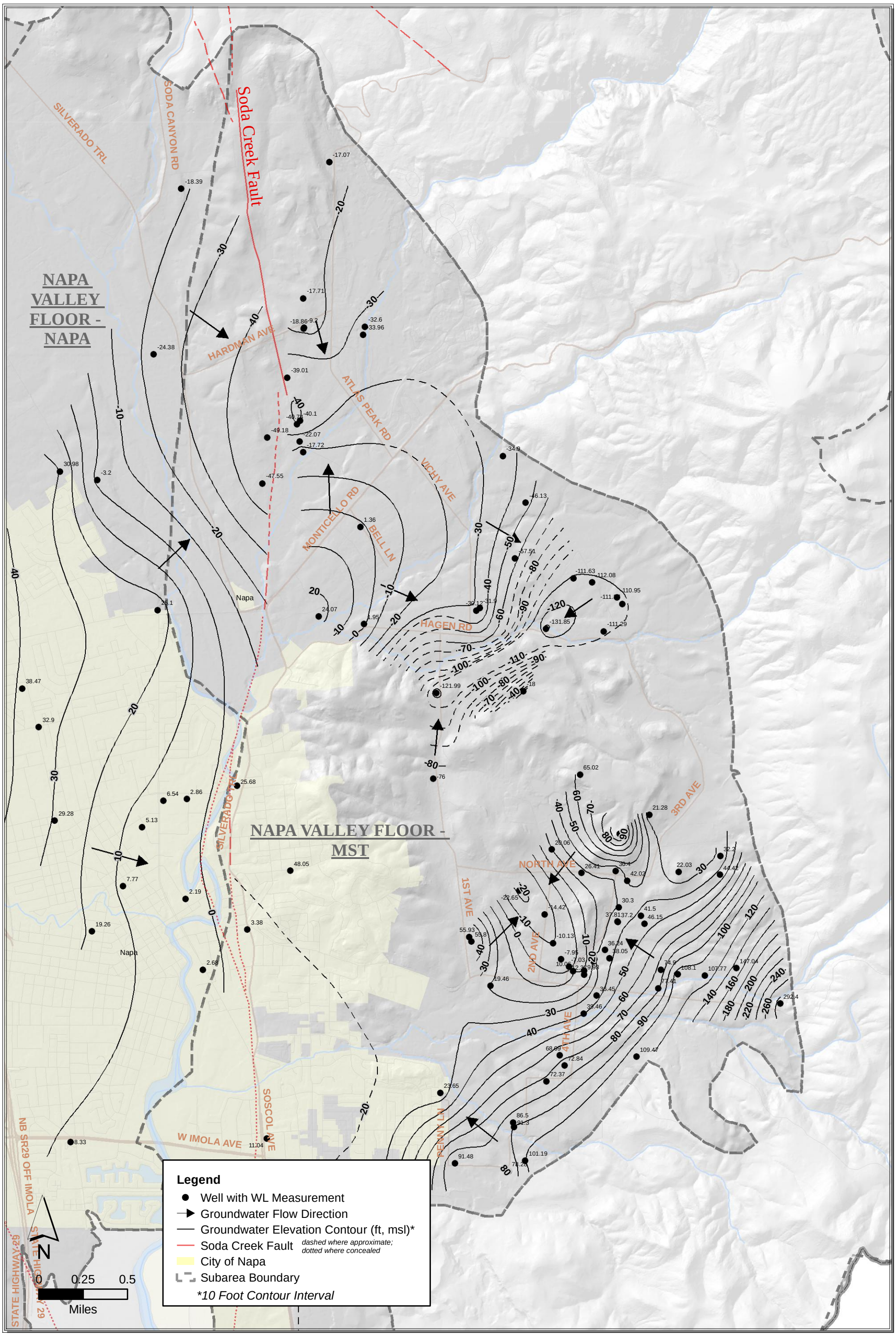
Figure 4.13
Contours of Equal Groundwater Elevation
MST Area, Spring 2002



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

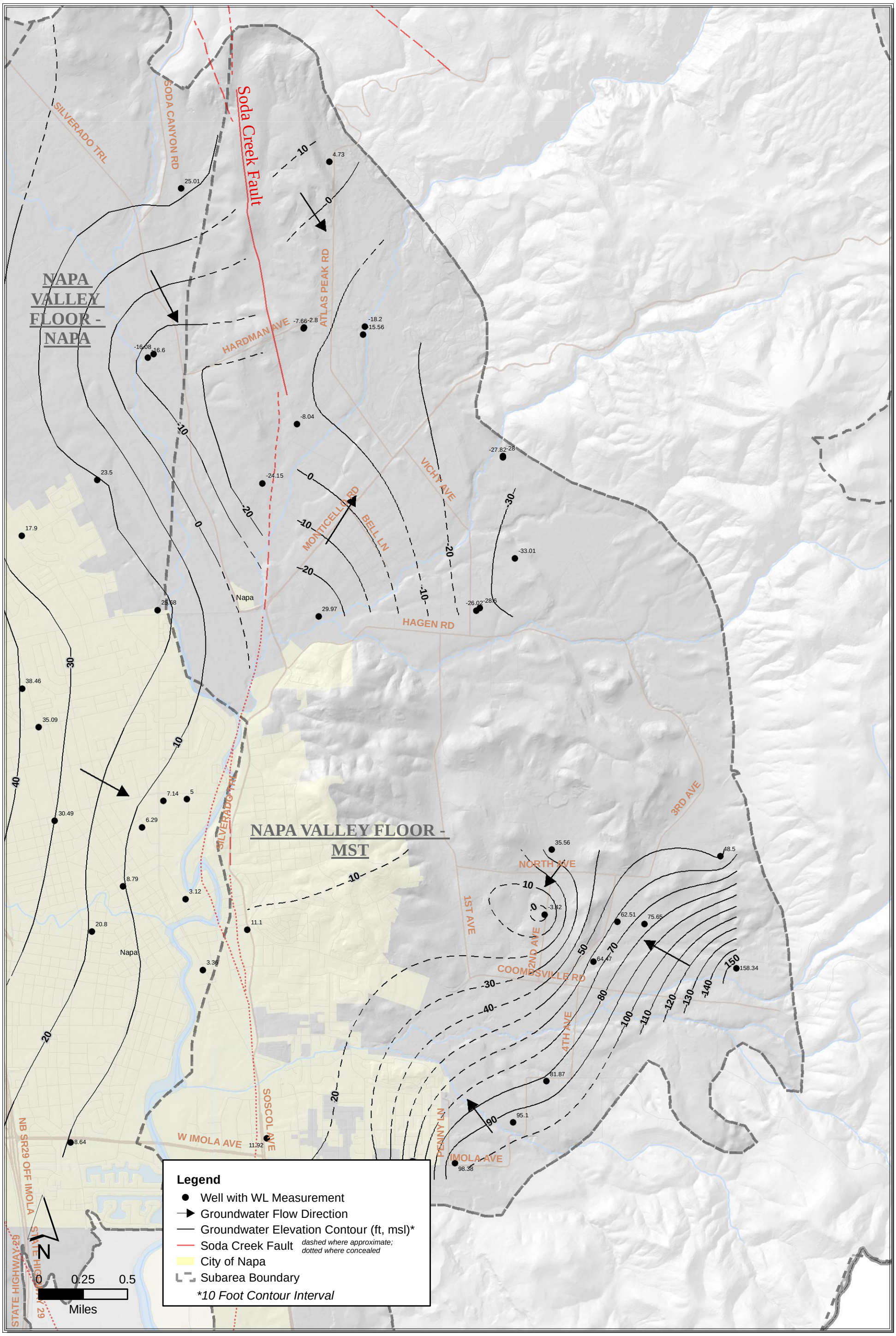
Figure 4.14
Contours of Equal Groundwater Elevation
MST Area, Fall 2001



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

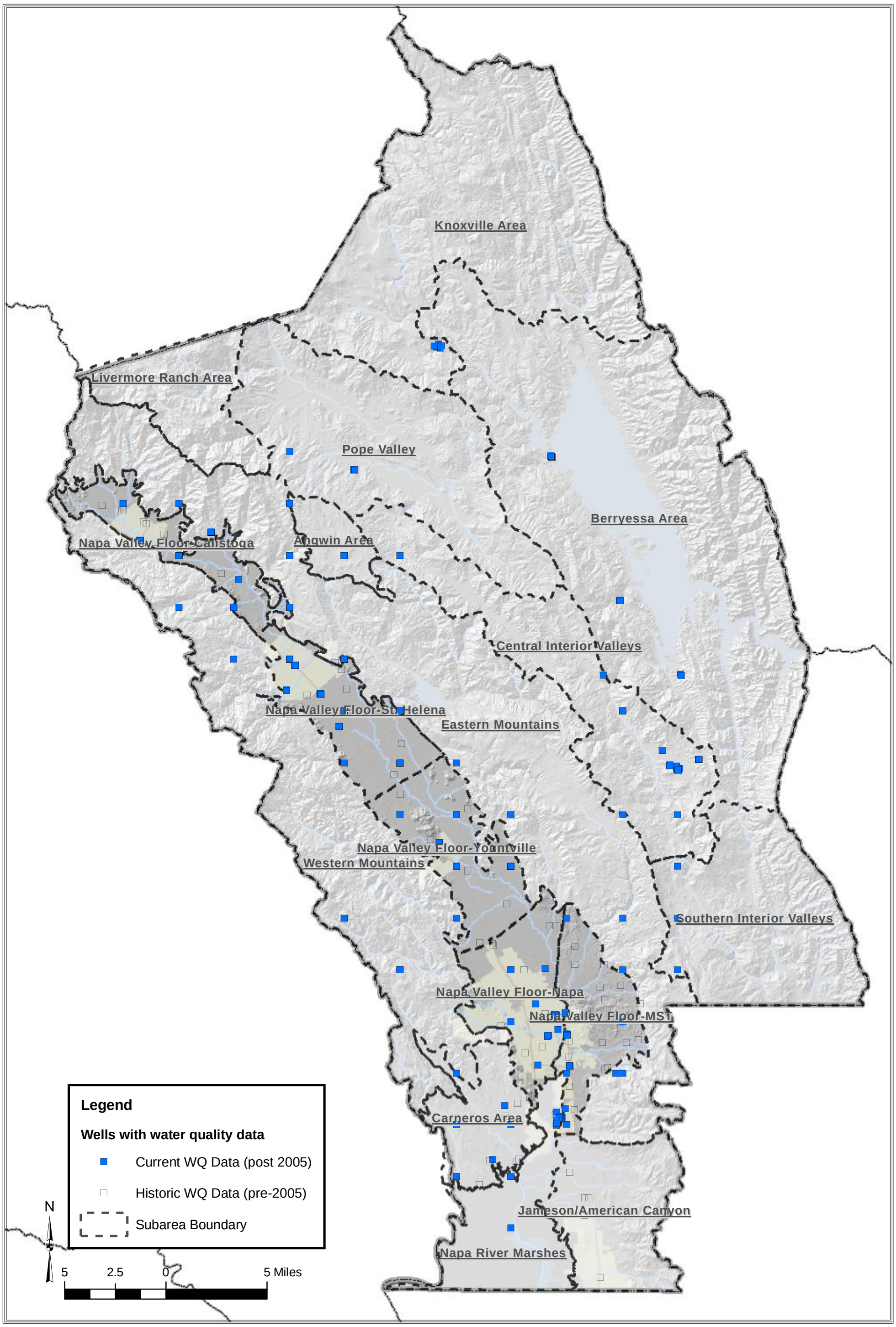
Figure 4.15
Contours of Equal Groundwater Elevation
MST Area, Fall 2008



Path: Z:\Clerical\2009 Job Files\09-012\Data\GIS\Mapfiles\Report\Final\MST_WLcontours_final_final.mxd

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

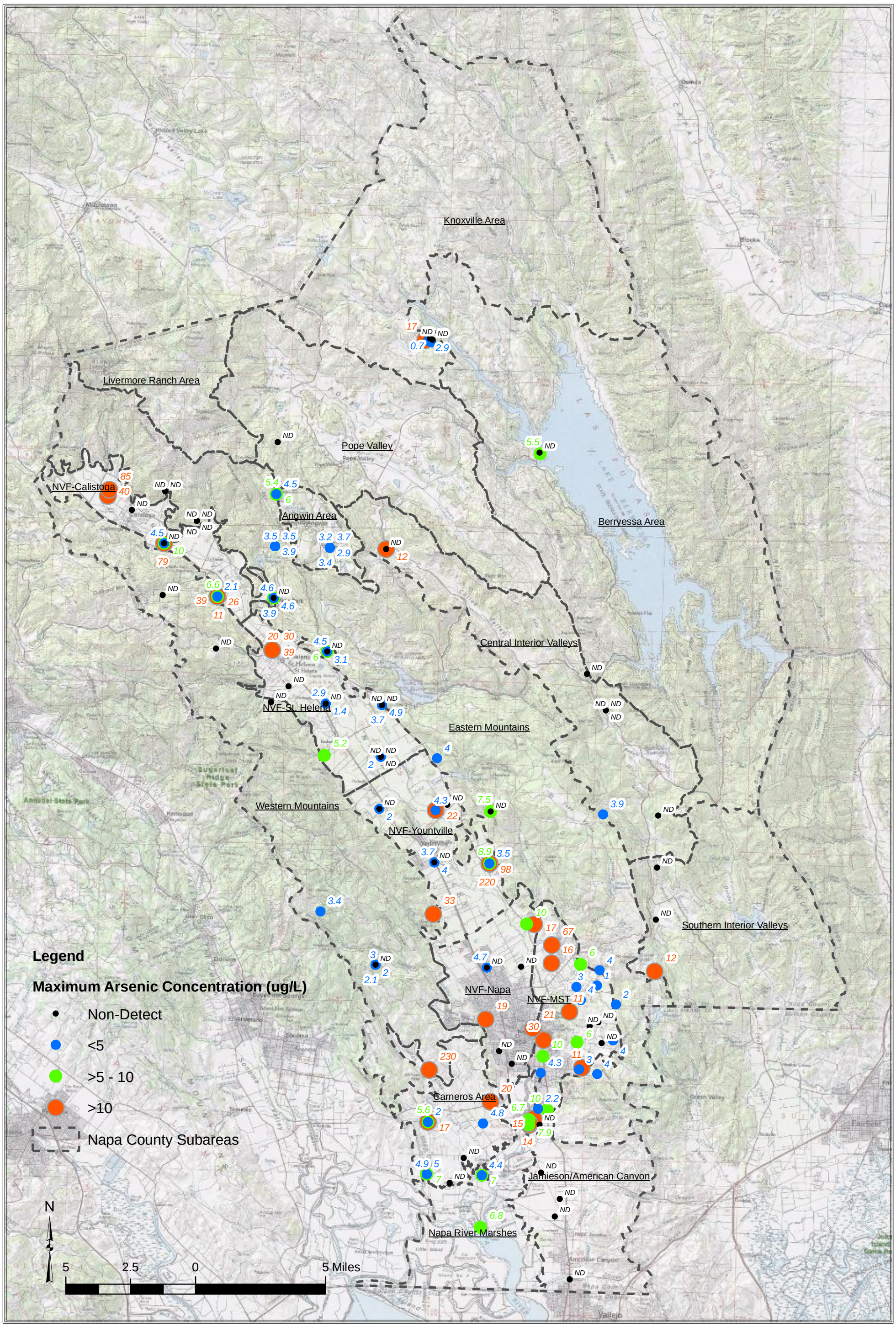
Figure 4.16
Contours of Equal Groundwater Elevation
MST Area, Spring 2008



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\WLWQWellLocations.mxd Date: 9/10/2010

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

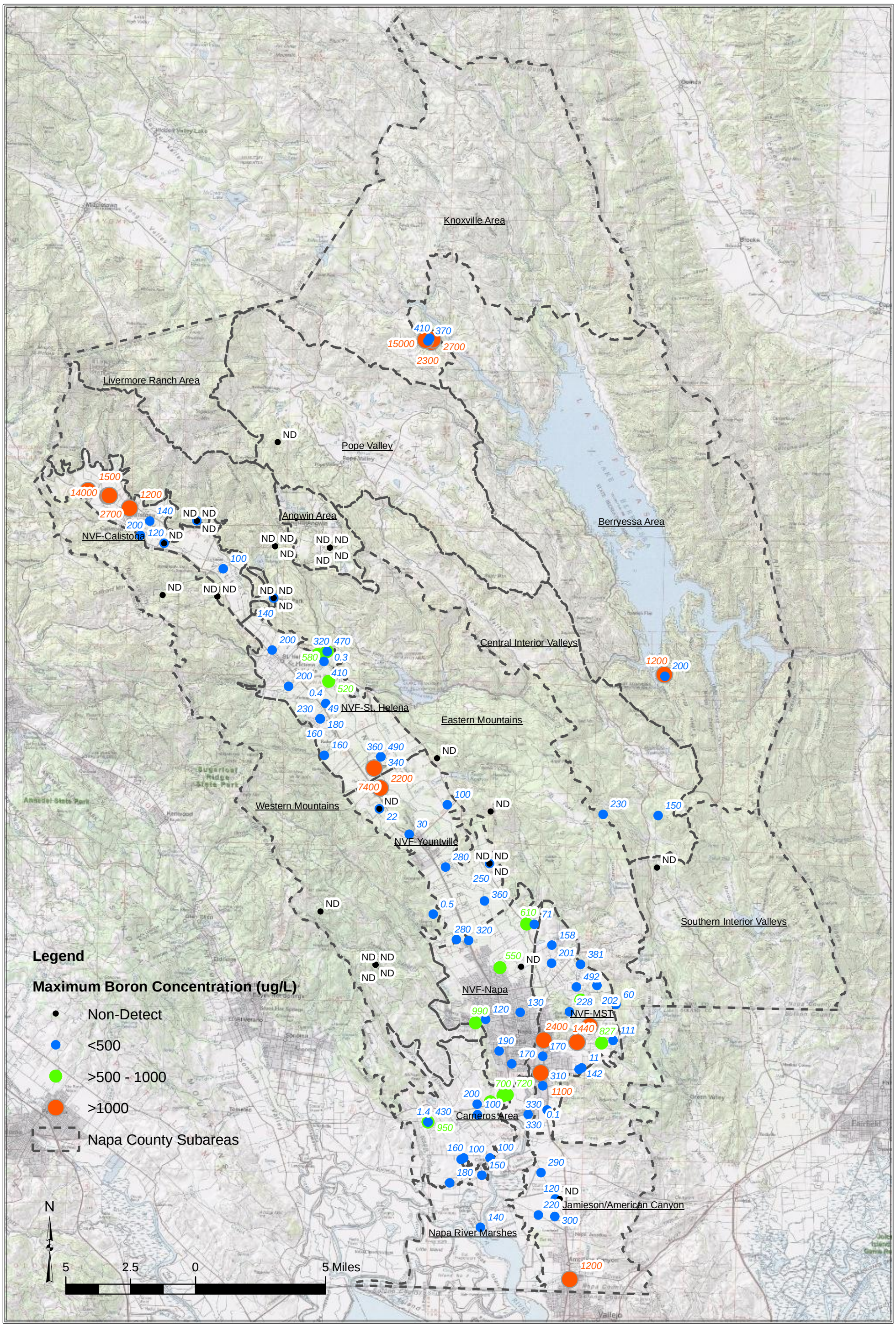
Figure 4.17
Well Location Map
Wells with Water Quality Data
Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

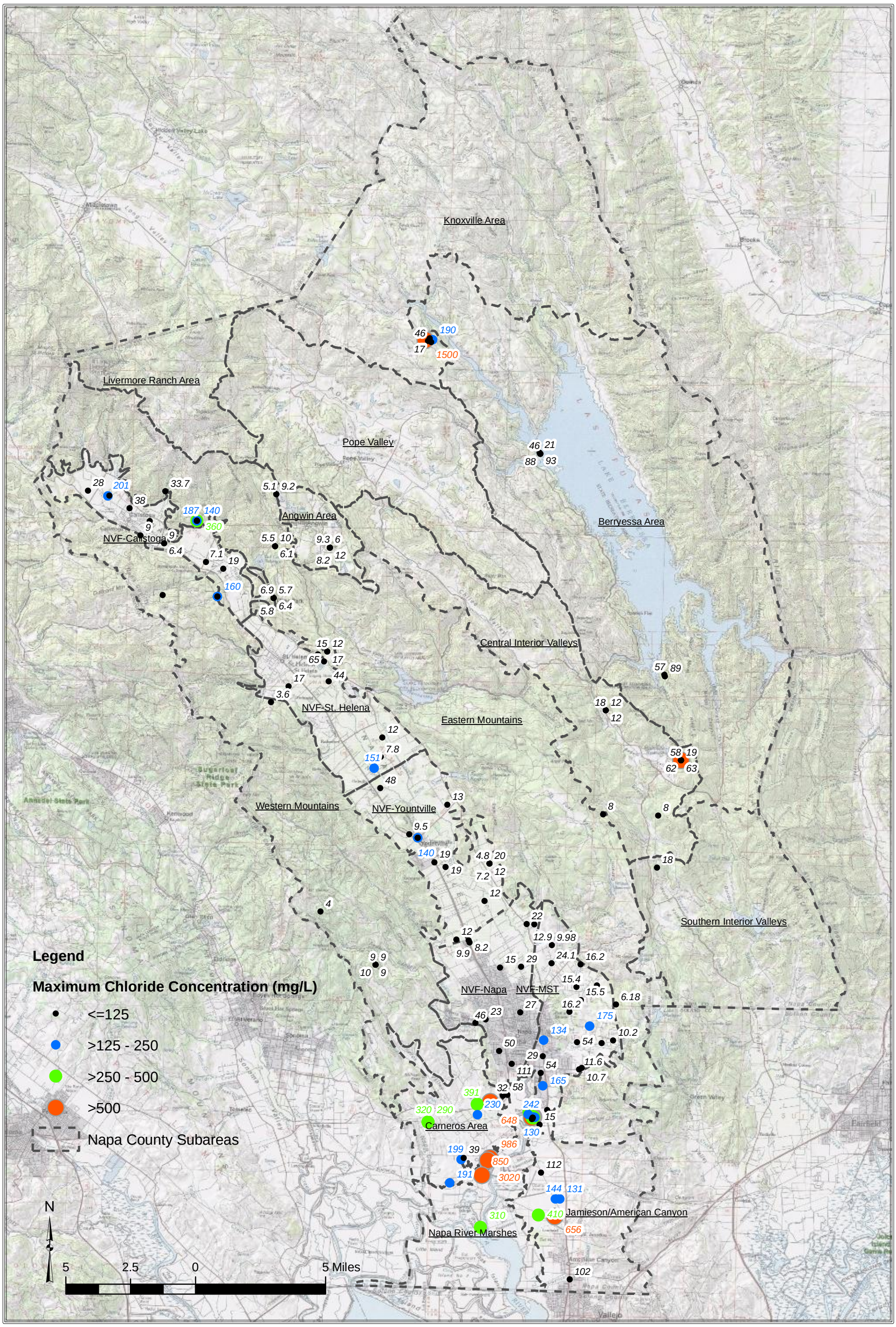
Figure 4.18
Maximum Arsenic Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

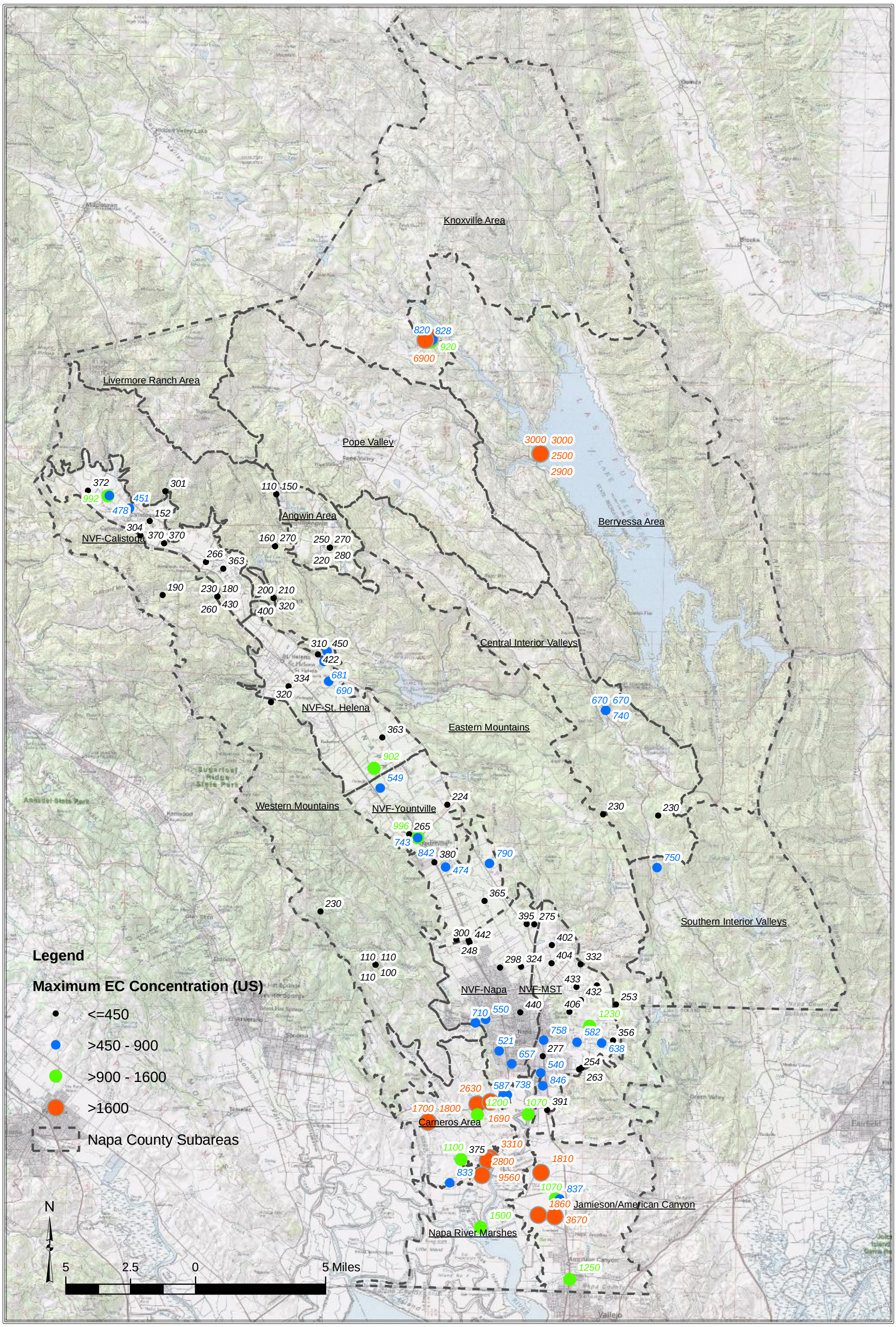
Figure 4.19
Maximum Boron Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

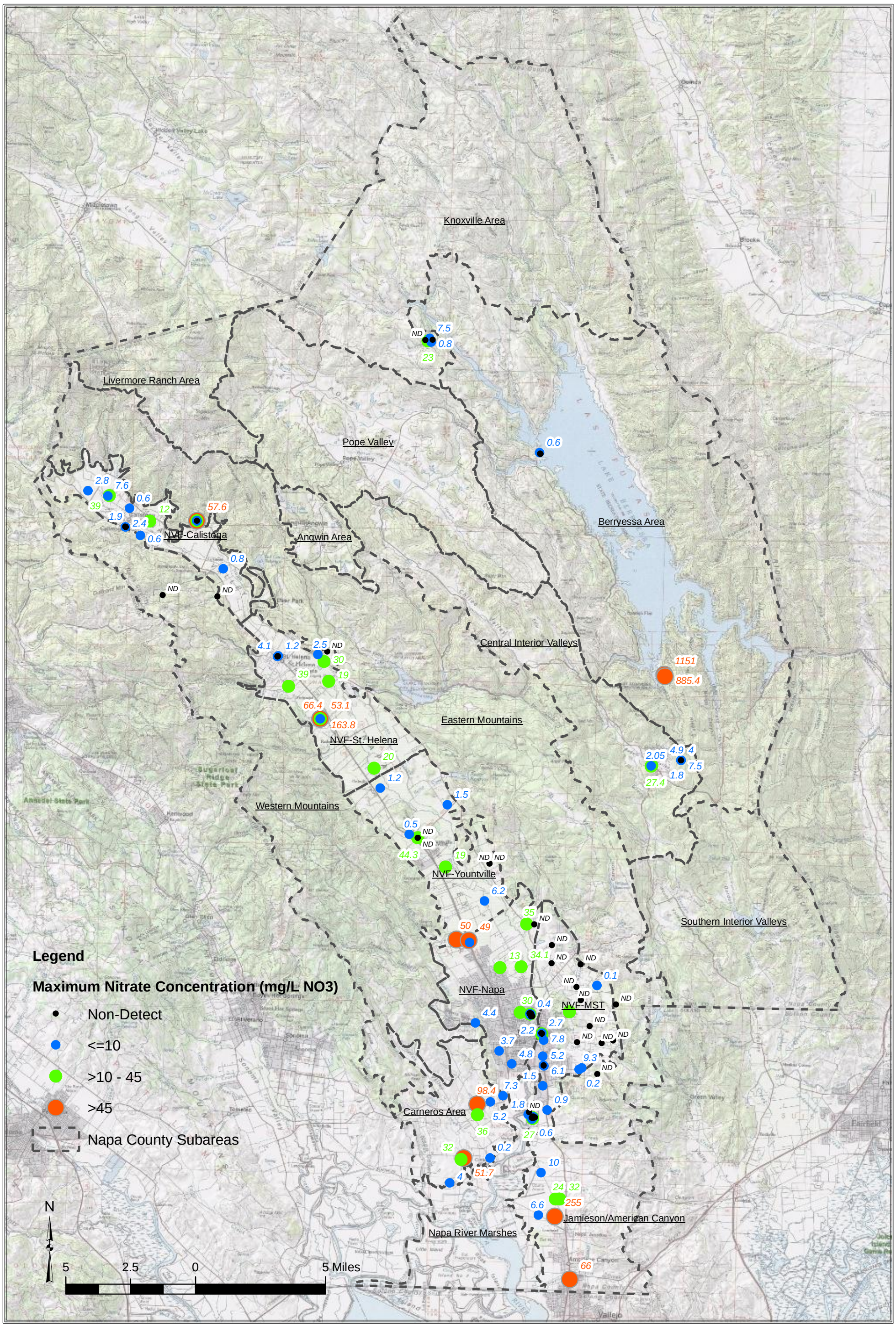
Figure 4.20
Maximum Chloride Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

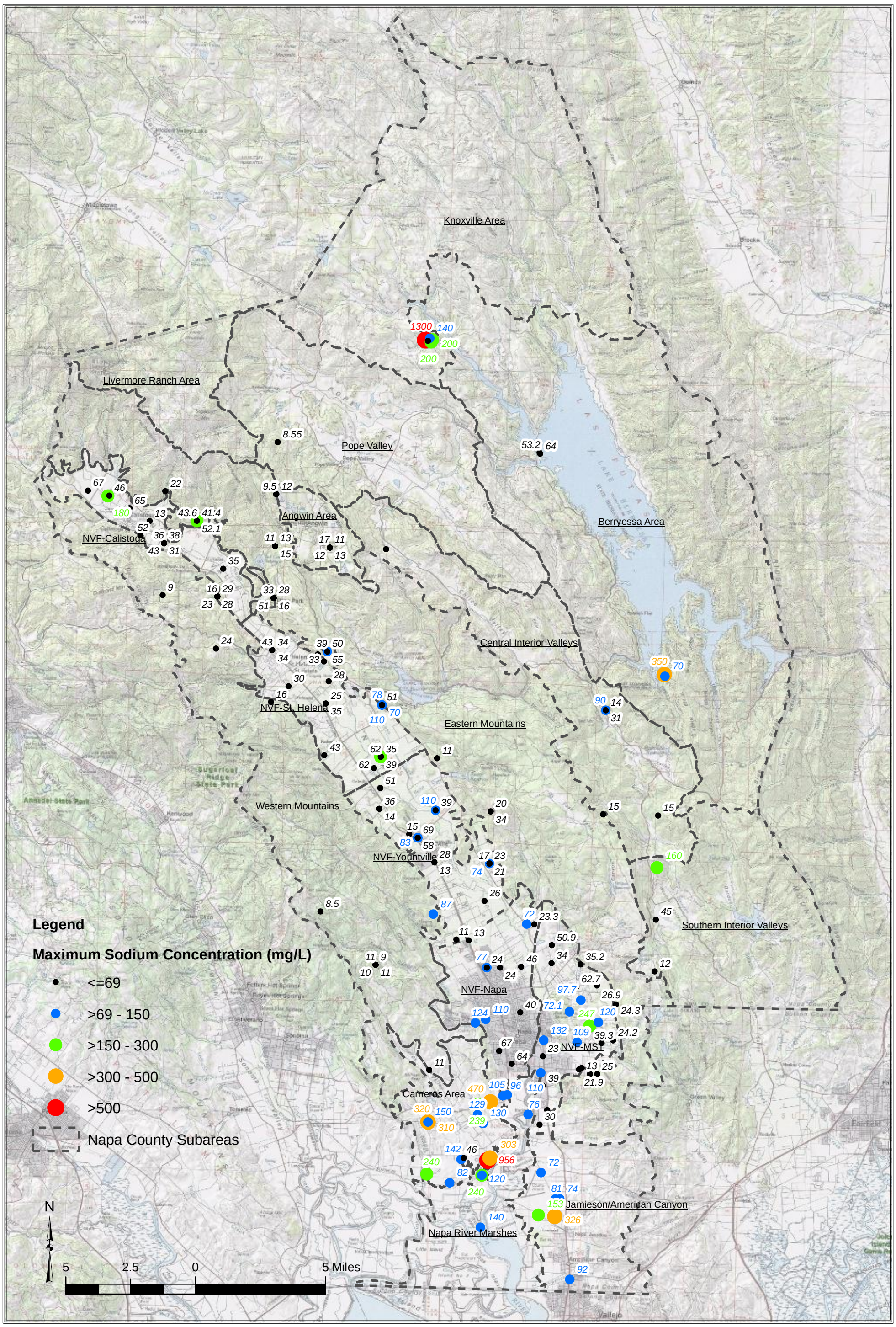
Figure 4.21
Maximum EC Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

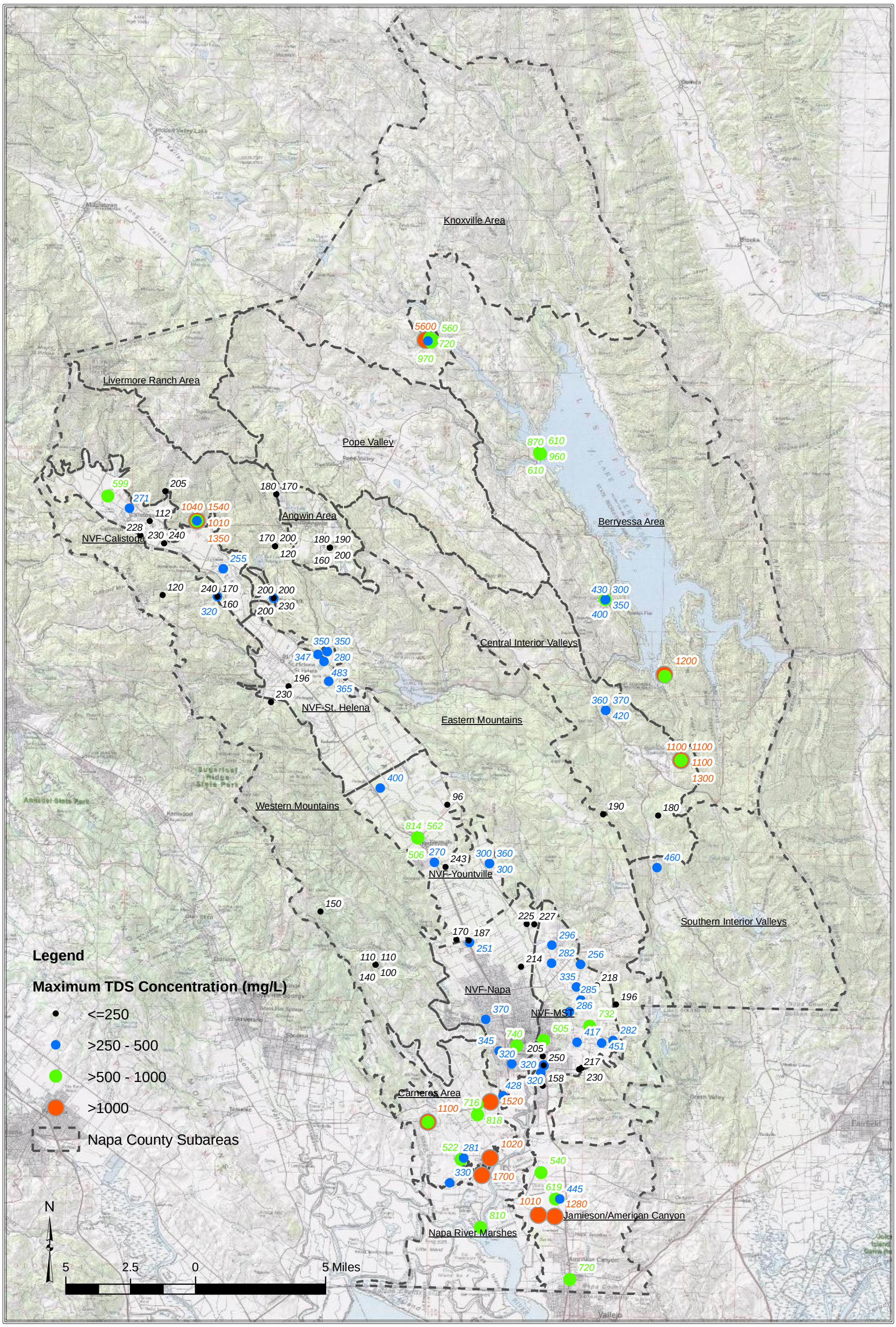
Figure 4.22
Maximum Nitrate Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

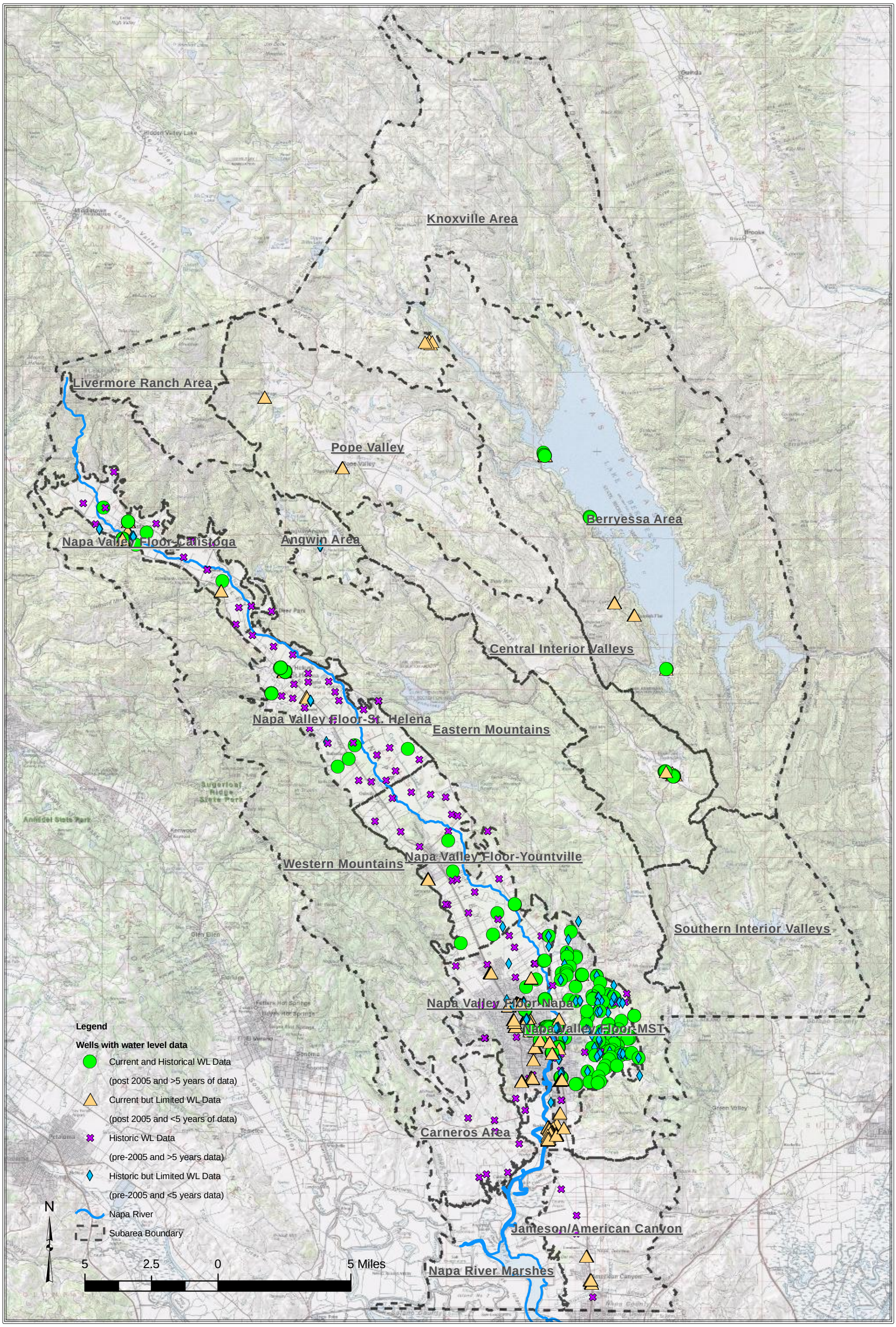
Figure 4.23
Maximum Sodium Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\Napa_Arc\Napa.mxd Date: 9/1/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

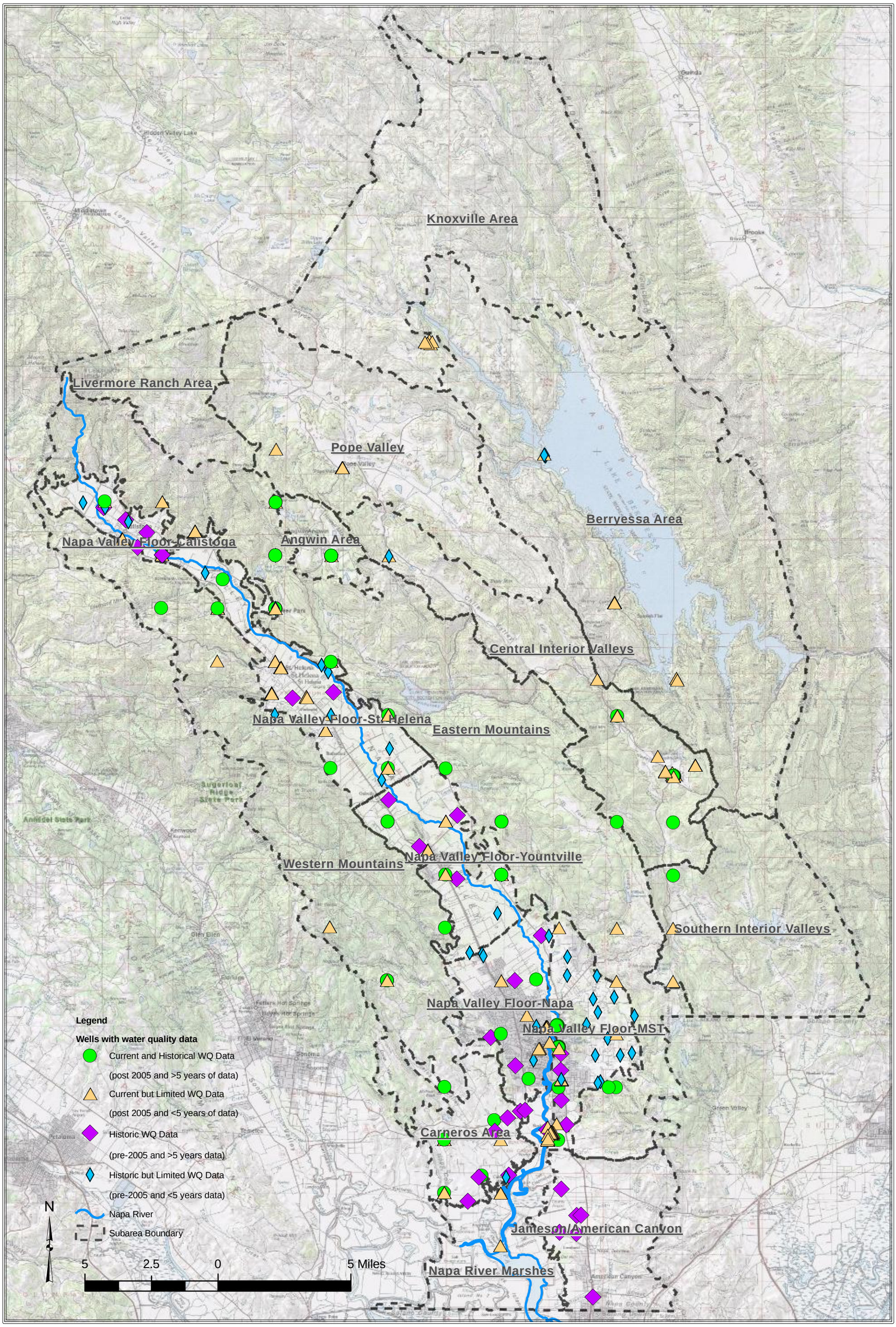
Figure 4.24
Maximum TDS Concentrations
Groundwater Quality - Napa County



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\WLWQDataAvail.mxd Date: 9/10/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

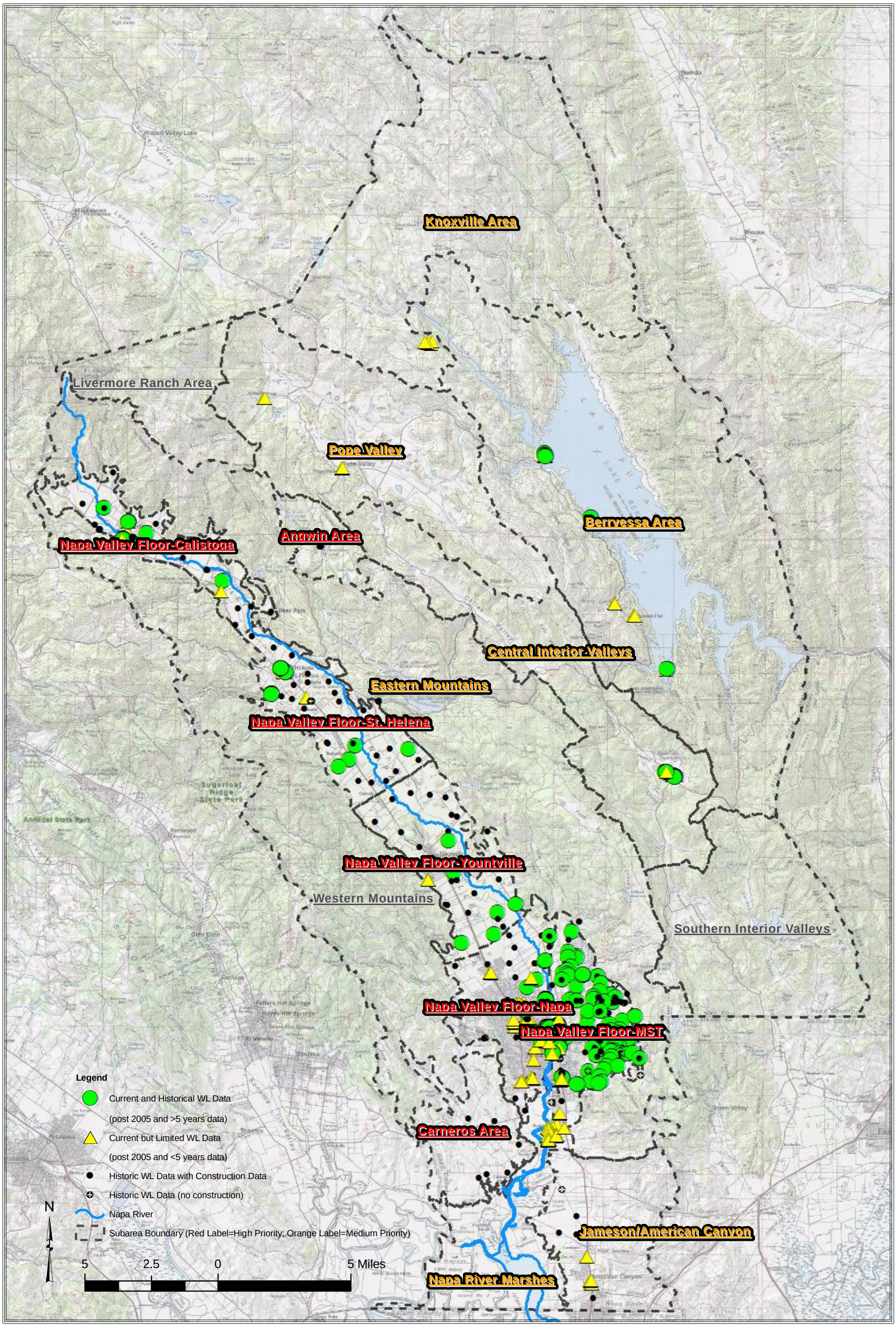
Figure 5.1
Groundwater Level Data Availability



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\WLWQDataAvail.mxd Date: 9/10/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

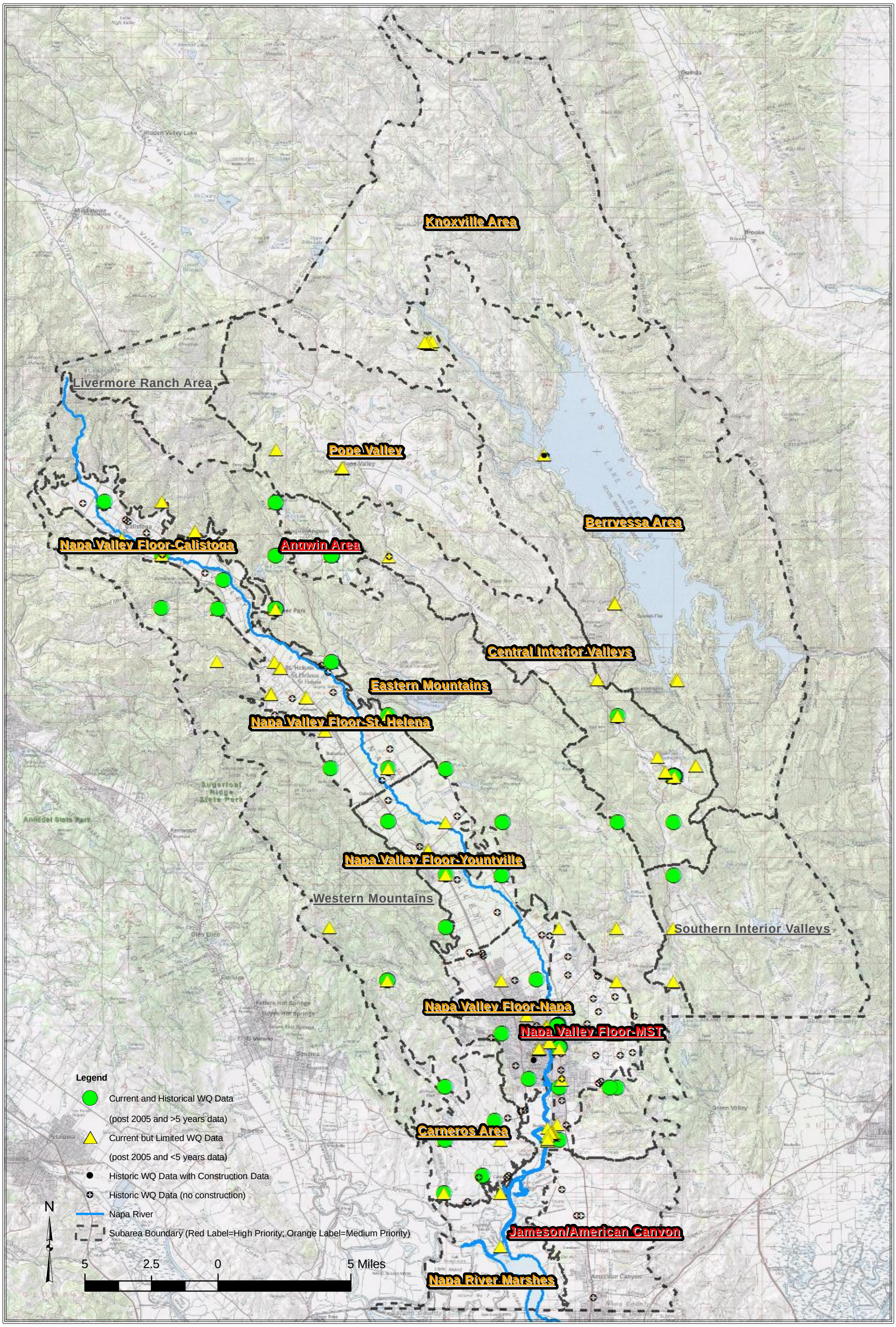
Figure 5.2
Groundwater Quality Data Availability



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\WLWQDataFutureMon.mxd Date: 9/10/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI
CONSULTING ENGINEERS

Figure 5.3
Groundwater Level Monitoring
Priority Areas



FILE: \\server_pe2900\Clerical\2009 Job Files\09-012\Report\BDworking\WLWQDataFutureMon.mxd Date: 9/10/2010 DATE: 2/17/2006 1:18:55 PM

LUHDORFF & SCALMANINI CONSULTING ENGINEERS

Figure 5.4
Groundwater Quality Monitoring Priority Areas