

8 List of Exhibits

1. Regional Map
2. Study Area Map with Political Boundaries
3. Physiographic Map
4. Geology Map
5. Groundwater Basins
6. PPHCSD Well Locations
7. Groundwater Level Contour Map – 1985
8. Groundwater Level Contour Map – 2004
9. Groundwater Level Contour Map – 2010

Plate 1. Hydrographs

9 List of Tables

1. Summary of Annual Groundwater Production PPHCSD Wells in the Antelope Valley Groundwater Basin
2. Summary of Monthly Groundwater Production PPHCSD Well No. 14

10 List of Appendices

- A. Groundwater Levels Used for Contour Maps
- B. Individual Well Hydrographs

EXHIBIT "C - PART 2"

Exhibits



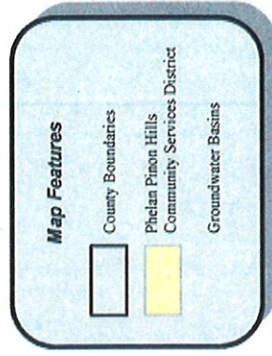
Smith Trager LLP
Phelan Pinon Hills Community Services District

13-Jul-10



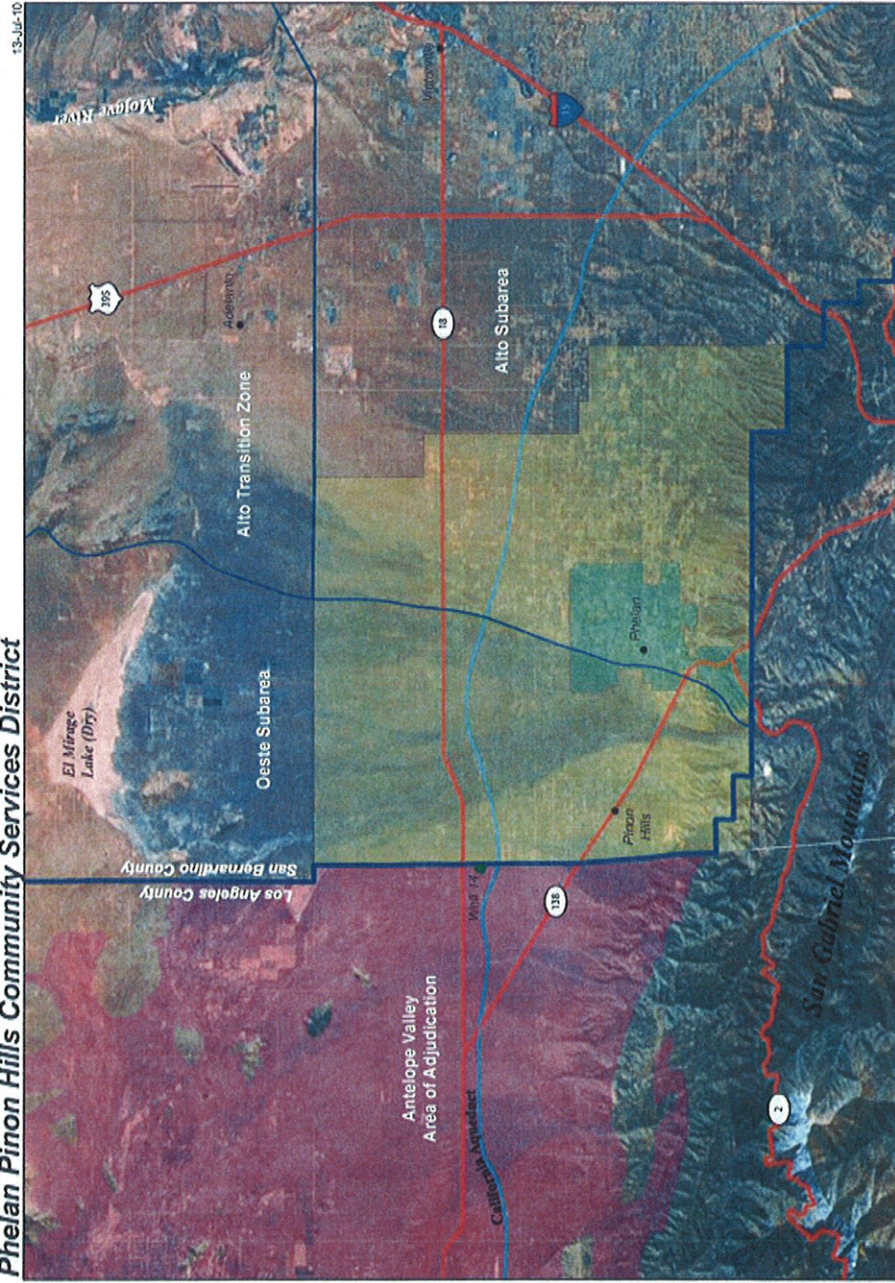
Thomas Harder & Co. ▼
Groundwater Consulting

NAD 83 UTM Zone 11
Central Meridian: -117

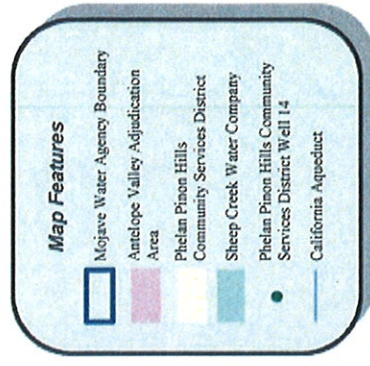
Base map Source: www.esri.com

Regional Map
Figure 1

**Historical Groundwater
Production by the Phelan
Pinon Hills CSD
Antelope Valley Area of Adjudication**



**Smith Trager LLP
Phelan Pinon Hills Community Services District**

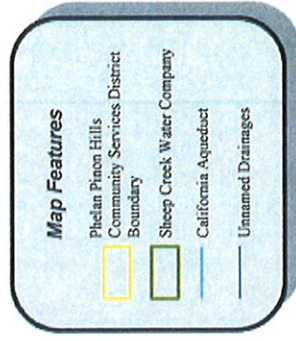


Basemap Source: www.esri.com

**Study Area with
Political Boundaries**
Figure 2

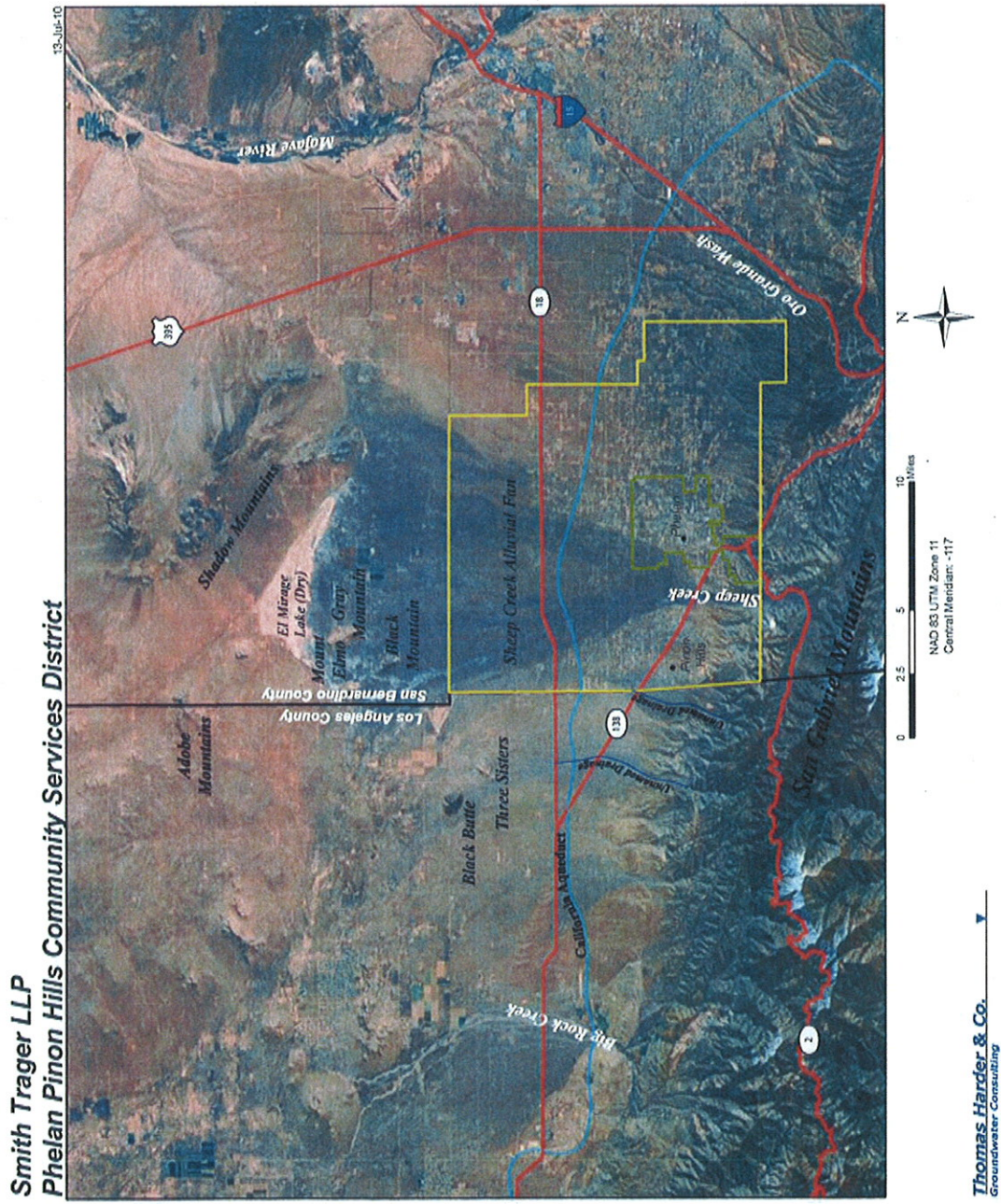
Thomas Harder & Co.
Groundwater Consulting

Historical Groundwater Production by the Phelan Pinon Hills CSD Antelope Valley Area of Adjudication



Basemap Source: www.esri.com

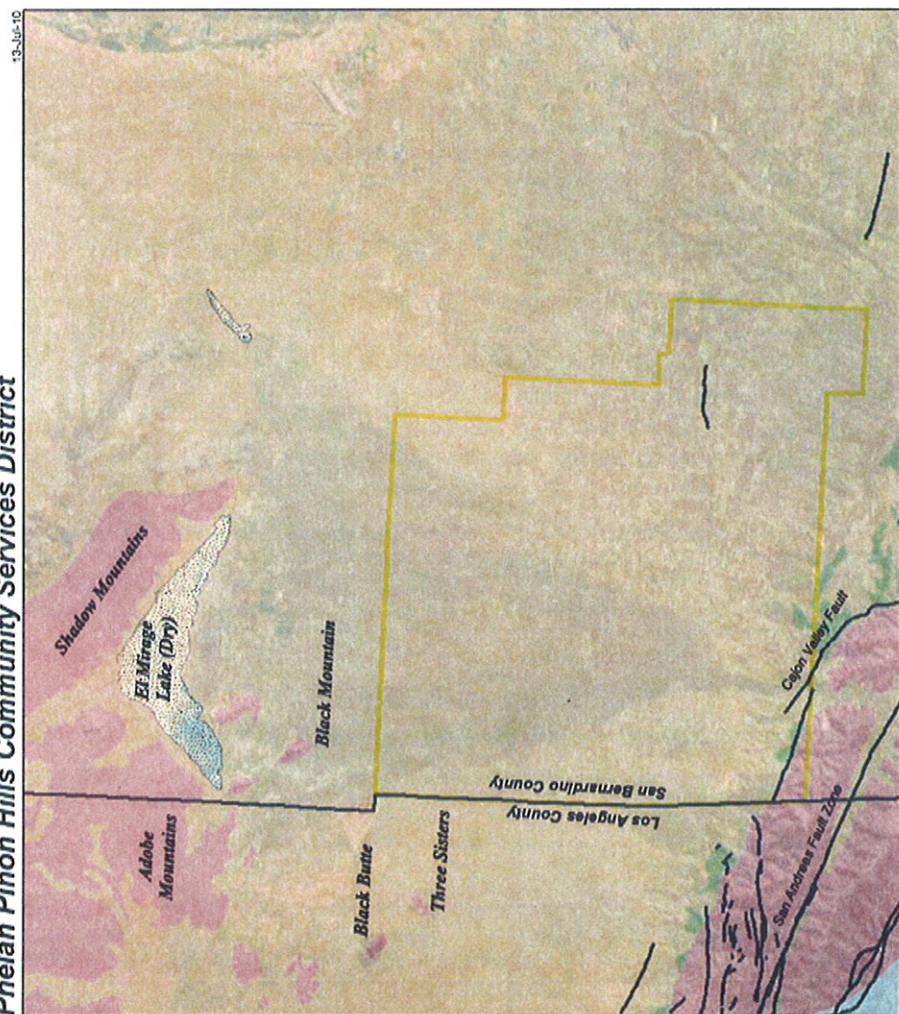
Physiographic Map
Figure 3



Smith Trager LLP
Phelan Pinon Hills Community Services District

Thomas Harder & Co.
Groundwater Consulting

Historical Groundwater Production by the Phelan Pinon Hills CSD Antelope Valley Area of Adjudication



Smith Trager LLP
Phelan Pinon Hills Community Services District



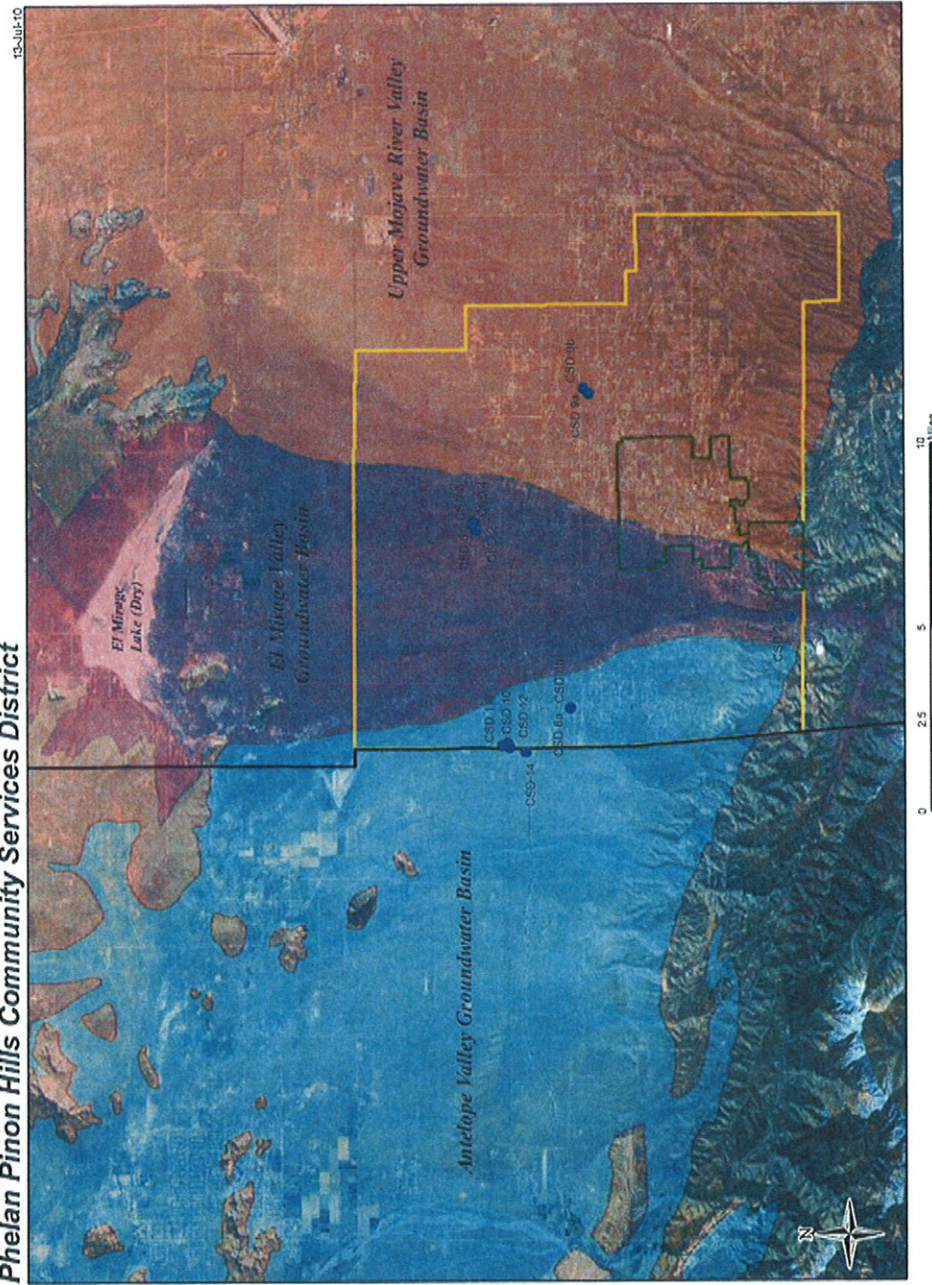
Basemap Source: www.esri.com
Modified from Dibblee (1960), Miller and Bedford (2000), and Morin and Miller (2003).



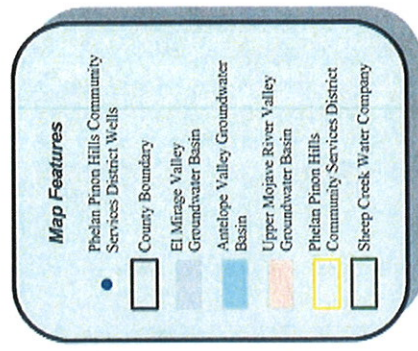
Thomas Harder & Co.
Groundwater Consulting

Geology Map
Figure 4

**Historical Groundwater
Production by the Phelan
Pinon Hills CSD
Antelope Valley Area of Adjudication**



13-Jul-10



Basemap Source: www.esri.com

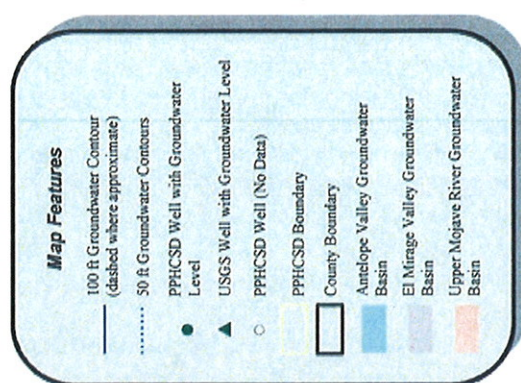


NAD 83 UTM Zone 11
Central Meridian: -117

Thomas Harder & Co.
Groundwater Consulting

Groundwater Basins
Figure 5

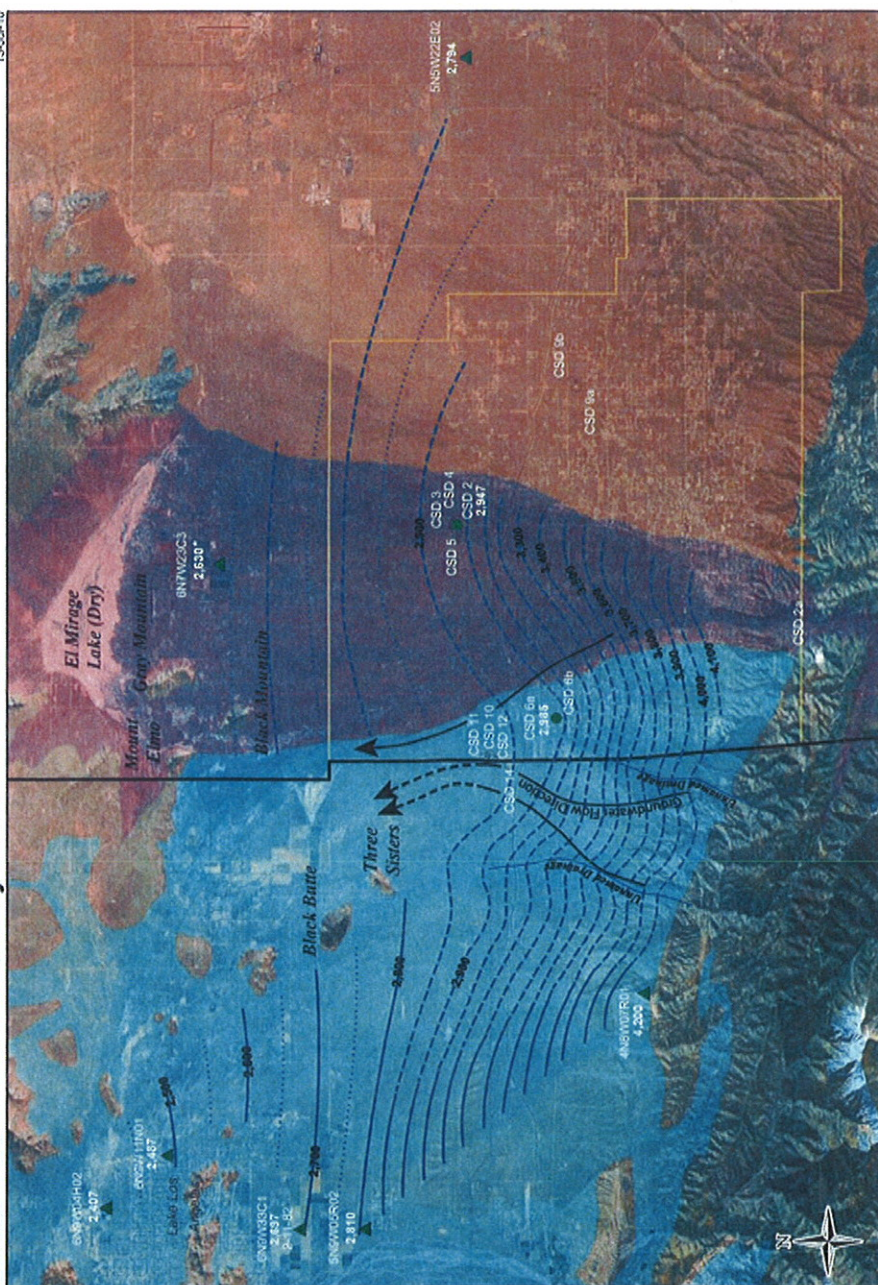
Historical Groundwater Production by the Phelan Pinon Hills CSD Antelope Valley Area of Adjudication



Basemap Source: www.esri.com
 Note: February through September 1985 Data
 * Estimated groundwater elevation based on long-term hydrograph

Groundwater Level Contour Map 1985 Figure 7

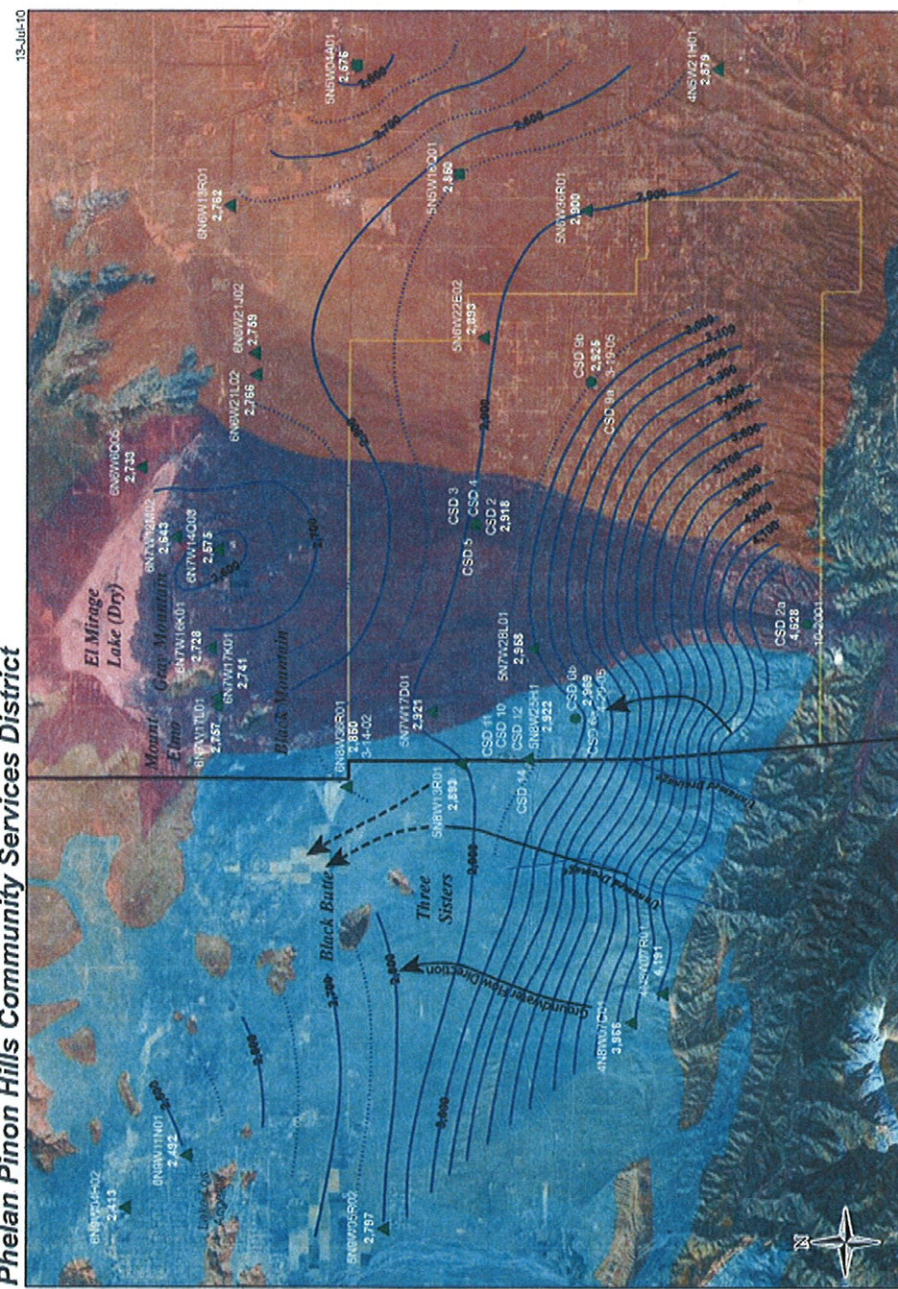
Smith Trager LLP Phelan Pinon Hills Community Services District



Thomas Harder & Co.
Groundwater Consulting

Historical Groundwater Production by the Phelan Pinon Hills CSD Antelope Valley Area of Adjudication

Smith Trager LLP
Phelan Pinon Hills Community Services District



13-Jul-10

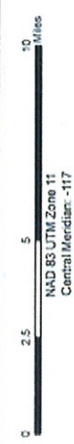
Map Features

- 100 ft Groundwater Contour (dashed where approximate)
- 50 ft Groundwater Contour
- PPHCSD Well with Groundwater Level
- MWA Well with Groundwater Level
- USGS Well with Groundwater Level
- PPHCSD Well (No Data)
- PPHCSD Boundary
- County Boundary
- Antelope Valley Groundwater Basin
- El Mirage Valley Groundwater Basin
- Upper Mojave River Groundwater Basin

Basemap Source: www.esri.com

Note: March 2004 Data

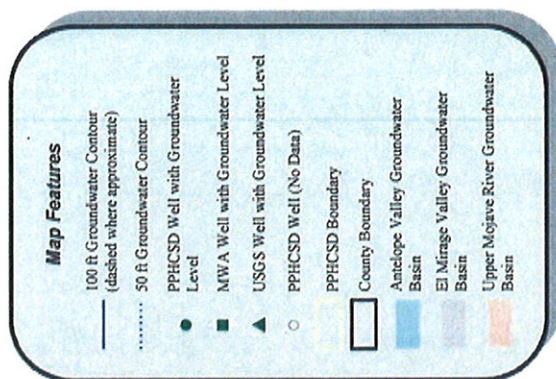
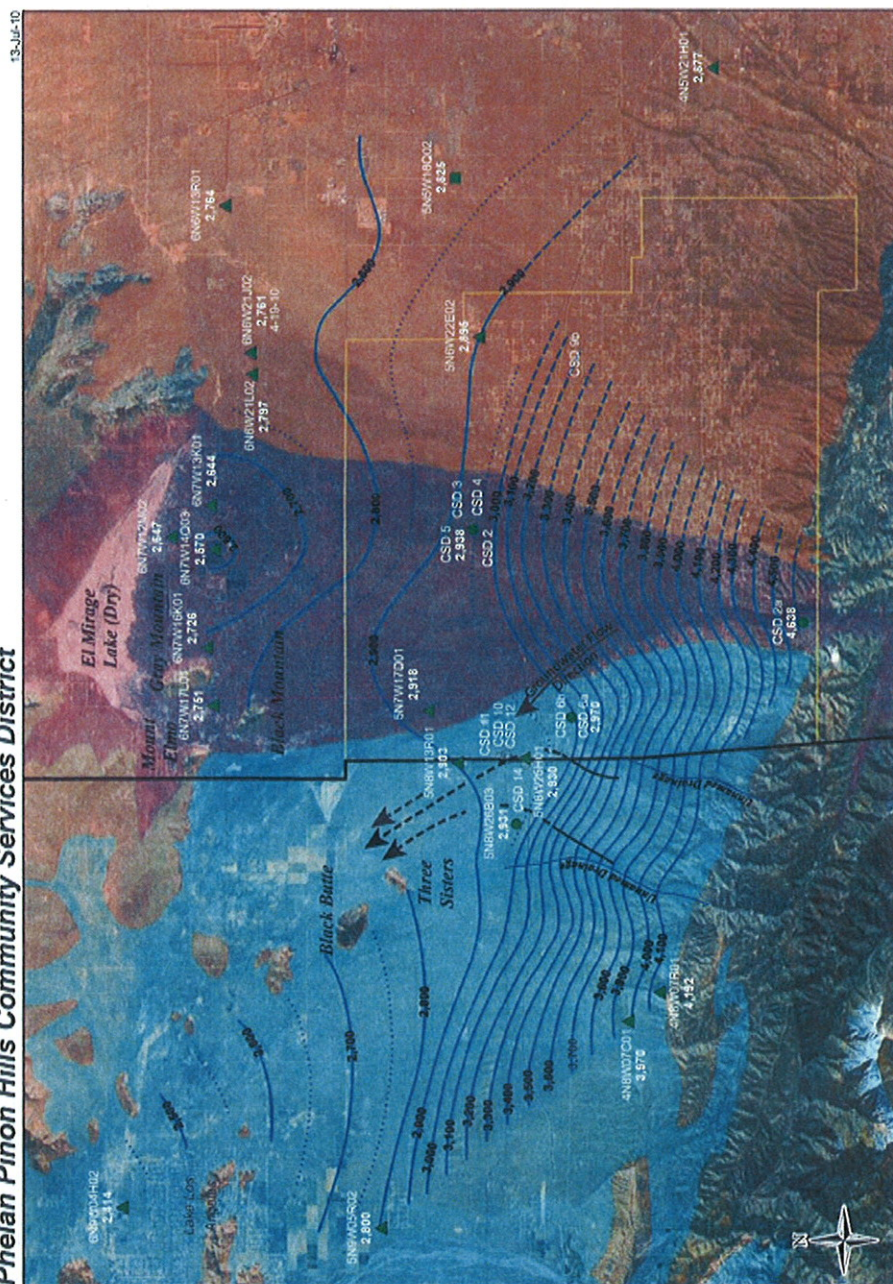
Groundwater Level
Contour Map
2004
Figure 8



Thomas Harder & Co.
Groundwater Consulting

Historical Groundwater Production by the Phelan Pinon Hills CSD Antelope Valley Area of Adjudication

Smith Trager LLP
Phelan Pinon Hills Community Services District

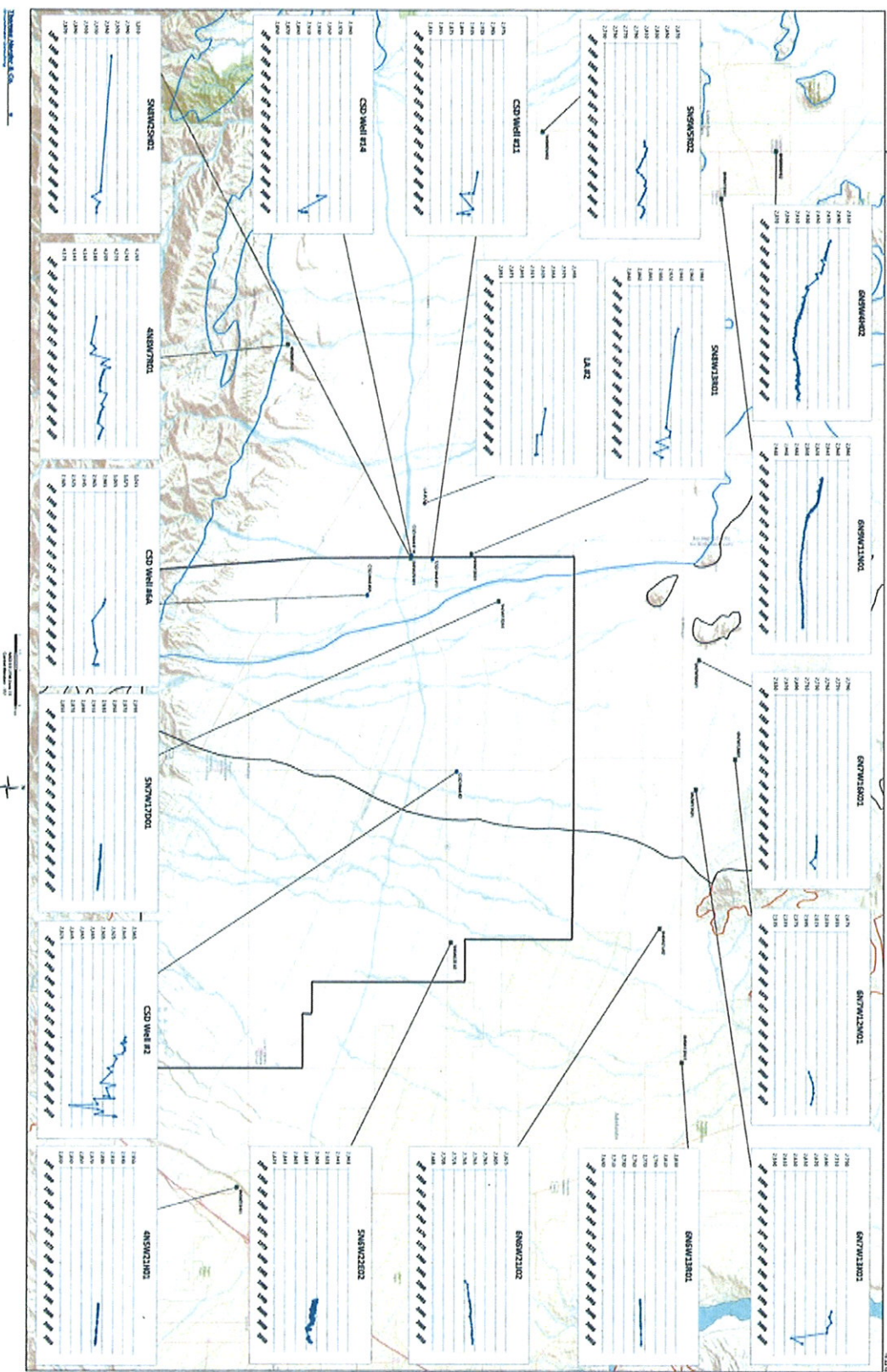


Basemap Source: www.esri.com
Note: March 2010 Data

Groundwater Level
Contour Map
March 2010
Figure 9

0 2.5 5 10 Miles
NAD 83 UTM Zone 11
Central Meridian: -117

Thomas Harder & Co.
Groundwater Consulting



Tables



TABLE 1

**Summary of Annual Groundwater Production
PPHCSD Wells in the Antelope Valley Groundwater Basin**

Year	Groundwater Production (Acre-ft)							Total
	Well 6a	Well 6b	Well 10	Well 11	Well 12	Well 14		
1986	331.00	0.00	0.00	0.00	0.00	0.00	2,317.00	
1987	244.00	0.00	0.00	0.00	0.00	0.00	244.00	
1988	211.77	0.00	0.00	0.00	0.00	0.00	211.77	
1989	170.70	0.00	0.00	0.00	0.00	0.00	170.70	
1990	505.47	0.00	0.00	0.00	0.00	0.00	505.47	
1991	309.85	309.85	0.00	0.00	0.00	0.00	619.70	
1992	326.00	421.48	126.82	0.00	0.00	0.00	874.30	
1993	267.92	380.07	286.91	0.00	0.00	0.00	934.90	
1993-1994	95.00	299.00	286.00	0.00	0.00	0.00	680.00	
1994-1995	245.00	319.00	106.00	0.00	0.00	0.00	670.00	
1995-1996	282.00	363.00	397.00	63.00	0.00	0.00	1,105.00	
1996-1997	244.00	294.00	511.00	85.00	0.00	0.00	1,134.00	
1997-1998	339.00	258.00	443.00	86.00	0.00	0.00	1,126.00	
1998-1999	485.00	354.00	446.00	106.00	0.00	0.00	1,391.00	
1999-2000	449.00	293.00	261.00	56.00	424.00	0.00	1,483.00	
2000-2001	403.00	341.00	95.00	38.00	523.00	0.00	1,400.00	
2001-2002	414.00	294.00	246.00	50.00	705.00	0.00	1,709.00	
2002-2003	315.00	348.00	320.00	74.00	563.00	0.00	1,620.00	
2003-2004	157.00	237.00	94.00	26.00	1,101.00	0.00	1,615.00	
2004-2005	220.00	348.00	265.00	41.00	621.00	0.10	1,495.10	
2005-2006	235.00	155.00	250.00	103.00	584.00	147.86	1,474.86	
2006-2007	275.00	301.00	383.00	191.00	756.00	38.25	1,944.25	
2007-2008	294.00	115.00	188.00	89.00	723.00	377.66	1,786.66	
2008-2009	240.00	381.00	151.00	111.00	619.00	420.78	1,922.78	

Summary of Monthly Groundwater Production
Phelan-Pinon Hills Community Services District
Well No. 14

Year	Month	Monthly Groundwater Production Based on Daily Flow Meter Data (Acre-ft)
2004	March	0.00
	April	0.00
	May	0.00
	June	0.00
	July	0.00
	August	0.00
	September	0.00
	October	0.00
	November	0.00
	December	0.00
	Total 2004	0.00
2005	January	0.00
	February	0.00
	March	0.00
	April	0.00
	May	0.00
	June	0.00
	July	0.00
	August	0.00
	September	0.10
	October	0.49
	November	0.52
	December	0.00
	Total 2005	1.11

Table 2

**Summary of Monthly Groundwater Production
Phelan-Pinon Hills Community Services District
Well No. 14**

Year	Month	Monthly Groundwater Production Based on Daily Flow Meter Data (Acre-ft)
2006	January	0.09
	February	3.05
	March	7.89
	April	8.61
	May	10.18
	June	26.85
	July	37.86
	August	29.94
	September	22.38
	October	13.49
	November	3.81
	December	0.00
	Total 2006	164.15
2007	January	0.00
	February	0.00
	March	0.00
	April	0.00
	May	0.00
	June	1.40
	July	19.55
	August	0.00
	September	0.00
	October	0.00
	November	0.00
	December	0.00
	Total 2007	20.95

Table 2

**Summary of Monthly Groundwater Production
Phelan-Pinon Hills Community Services District
Well No. 14**

Year	Month	Monthly Groundwater Production Based on Daily Flow Meter Data (Acre-ft)
2008	January	0.00
	February	0.00
	March	22.46
	April	78.98
	May	79.41
	June	24.81
	July	49.15
	August	76.99
	September	45.87
	October	50.58
	November	64.96
	December	0.06
	Total 2008	493.27
2009	January	0.00
	February	0.00
	March	0.00
	April	0.00
	May	0.00
	June	9.15
	July	100.66
	August	98.73
	September	96.64
	October	85.04
	November	71.65
	December	96.79
	Total 2009	558.65