

Jet Propulsion Laboratory

Oak Grove Ranger Station

Oak Grove Park

Devil's Gate Reservoir

Spreading Grounds

FIGUEROA

CROSBY STREET

GOULD AVE

HAMPTON RD

CROWN

VIRO RD

OAK GROVE DR

WINDSOR AVE

FIGUEROA

CROSBY STREET

LINCOLN AVE

HARRIET ST

VENTURA ST

MARIPOSA DR

OLIVE AVE

GLENROSE AVE

W CALAVERAS ST

LCID#6

LCID#1

VWC#3

VWC#2

VWC#1

VWC#4

9/18/03 --

9/2/03 --

MW-14

2: 4.6

3: 0.8

MW-22

2: --

3: --

MW-24

2: 0.6

3: --

MW-11

2: --

3: --

MW-12

2: --

3: --

MW-4

2: 0.6

3: --

MW-23

2: 0.5

3: --

MW-3

2: 0.3J

3: --

MW-18

3: 0.4J

MW-21

2: 0.3J

3: 0.7

MW-17

2: 6.2

3: 3.1

MW-19

2: 0.3J

3: 0.3J

MW-20

2: --

LAWC#3

LAWC#5

RCL&W#4

LFWC#2

9/22/03 --

RCL&W#7

Arroyo Well

Well 52

Ventura Well

Windsor Well

FOOTHILL FWY

ALTADENA DR

CASITAS AVE

FIGURE 3-5
CONTOURS OF TRICHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 2

Jet Propulsion Laboratory
Pasadena, California



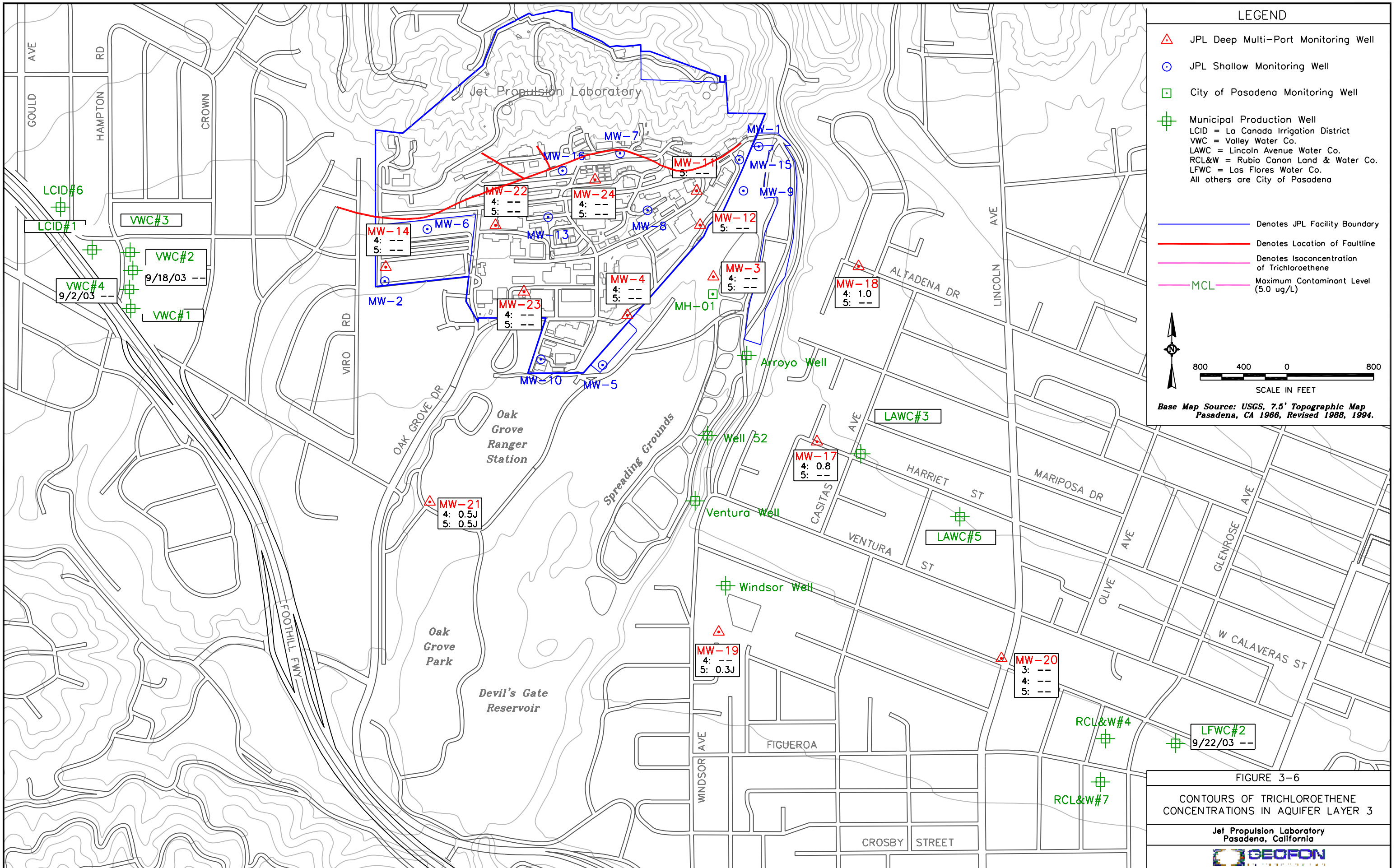
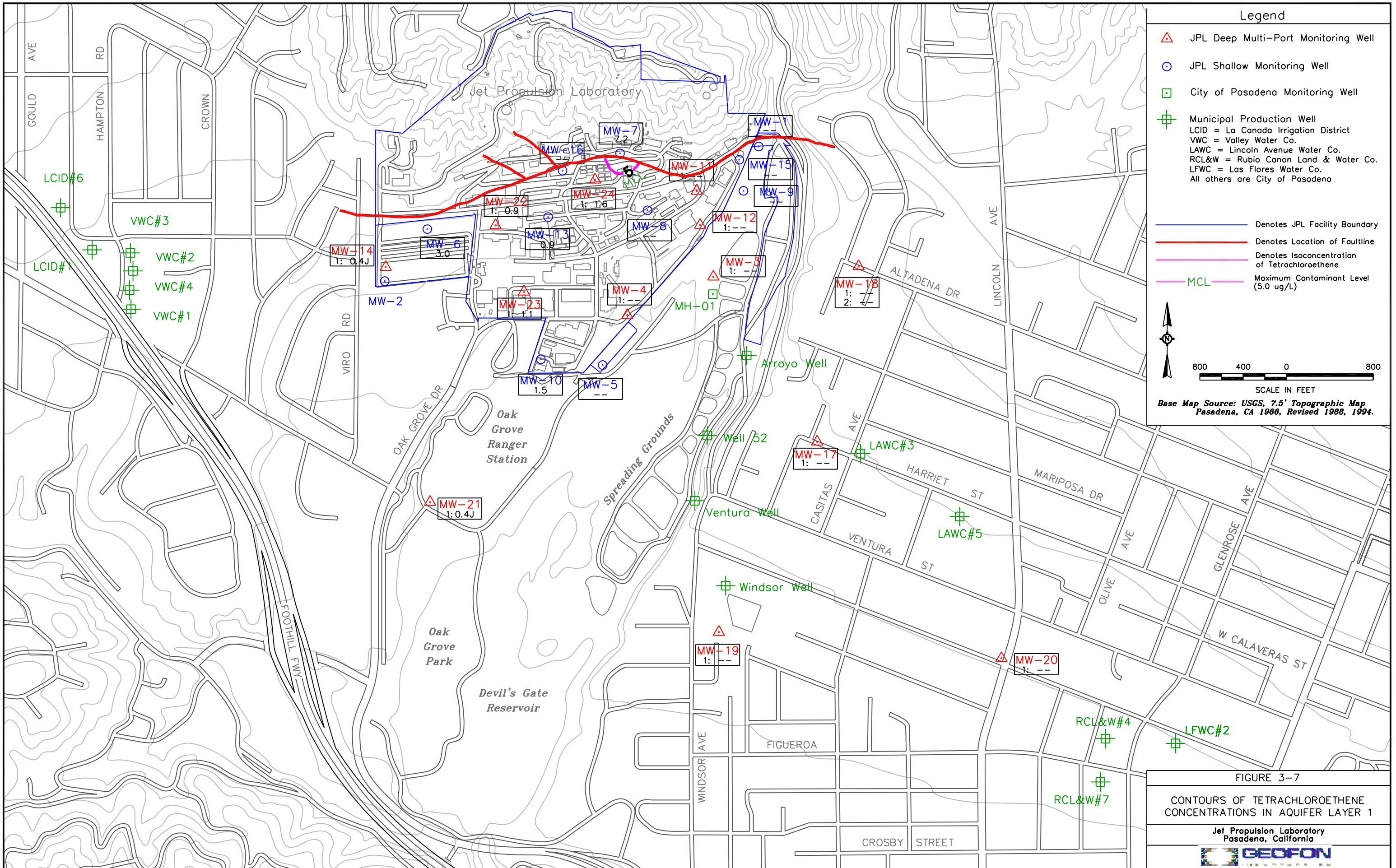


FIGURE 3-6

CONTOURS OF TRICHLOROETHENE CONCENTRATIONS IN AQUIFER LAYER 3

Jet Propulsion Laboratory Pasadena, California

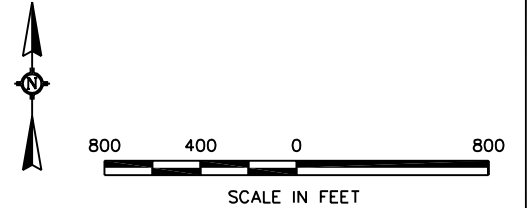




Legend

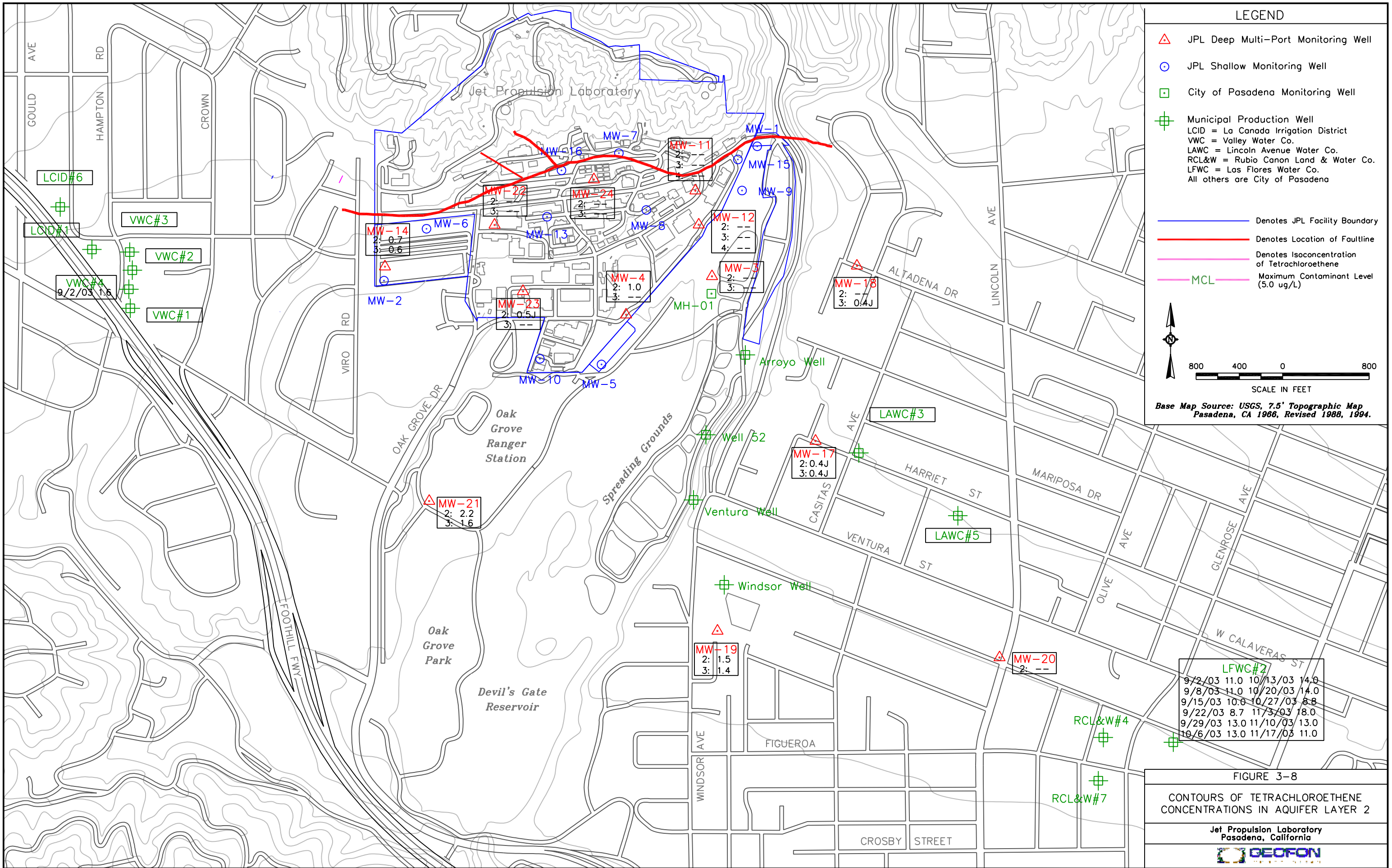
- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAW = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Tetrachloroethene
- MCL
 Maximum Contaminant Level (5.0 ug/L)



Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1968, Revised 1988, 1994.

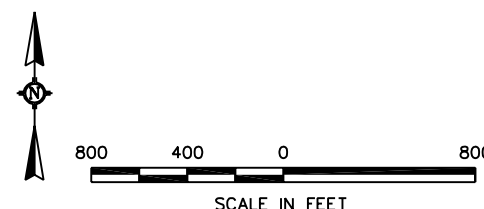
FIGURE 3-7
 CONTOURS OF TETRACHLOROETHENE
 CONCENTRATIONS IN AQUIFER LAYER 1
 Jet Propulsion Laboratory
 Pasadena, California



LEGEND

- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAWC = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

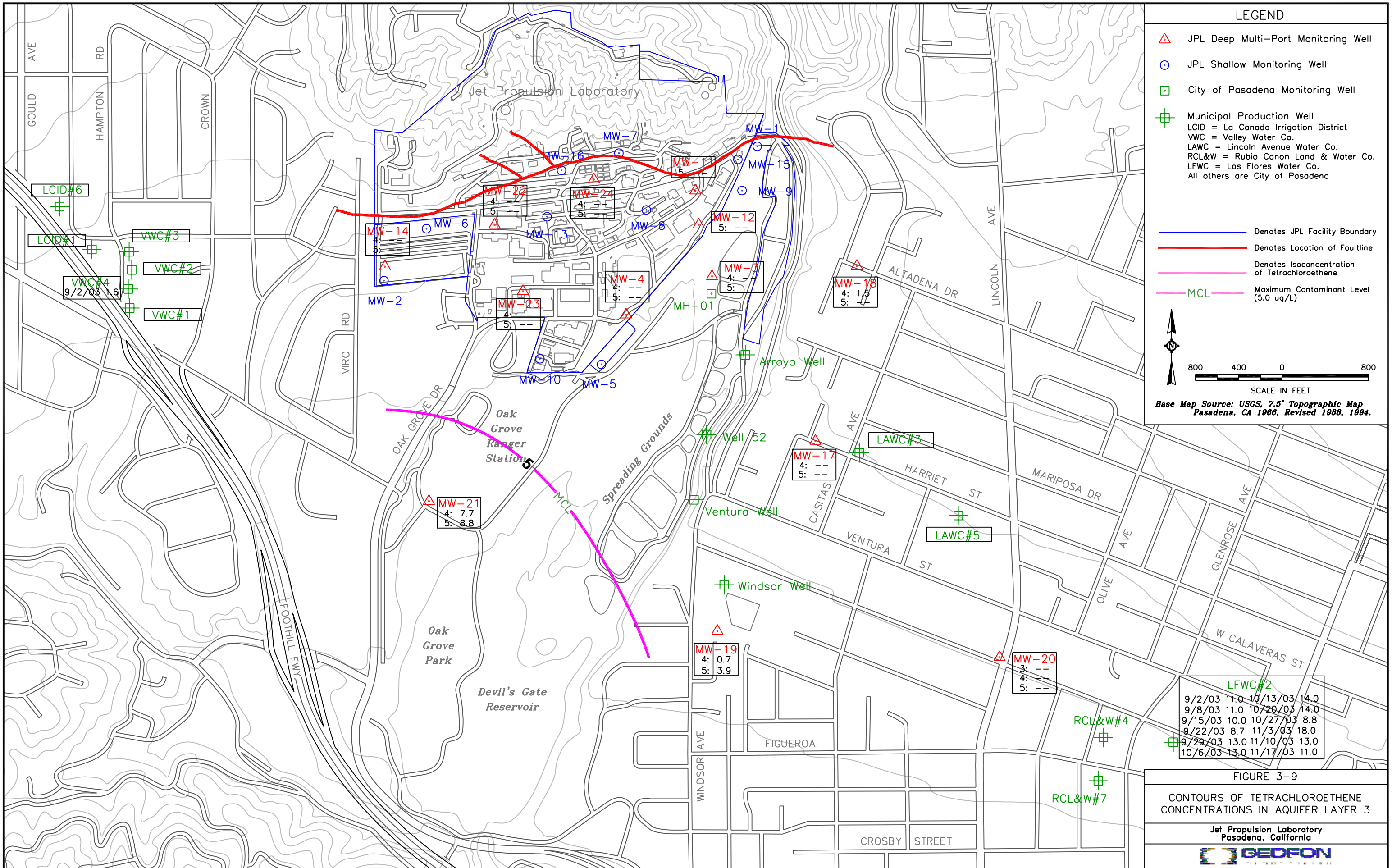
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Tetrachloroethene
- MCL Maximum Contaminant Level (5.0 ug/L)



Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1968, Revised 1988, 1994.

LFWC#2					
9/2/03	11.0	10/13/03	14.0		
9/8/03	11.0	10/20/03	14.0		
9/15/03	10.6	10/27/03	8.8		
9/22/03	8.7	11/3/03	18.0		
9/29/03	13.0	11/10/03	13.0		
10/6/03	13.0	11/17/03	11.0		

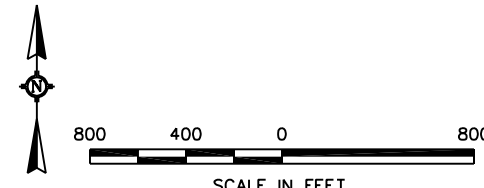
FIGURE 3-8
 CONTOURS OF TETRACHLOROETHENE
 CONCENTRATIONS IN AQUIFER LAYER 2



LEGEND

- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well
 LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAW = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

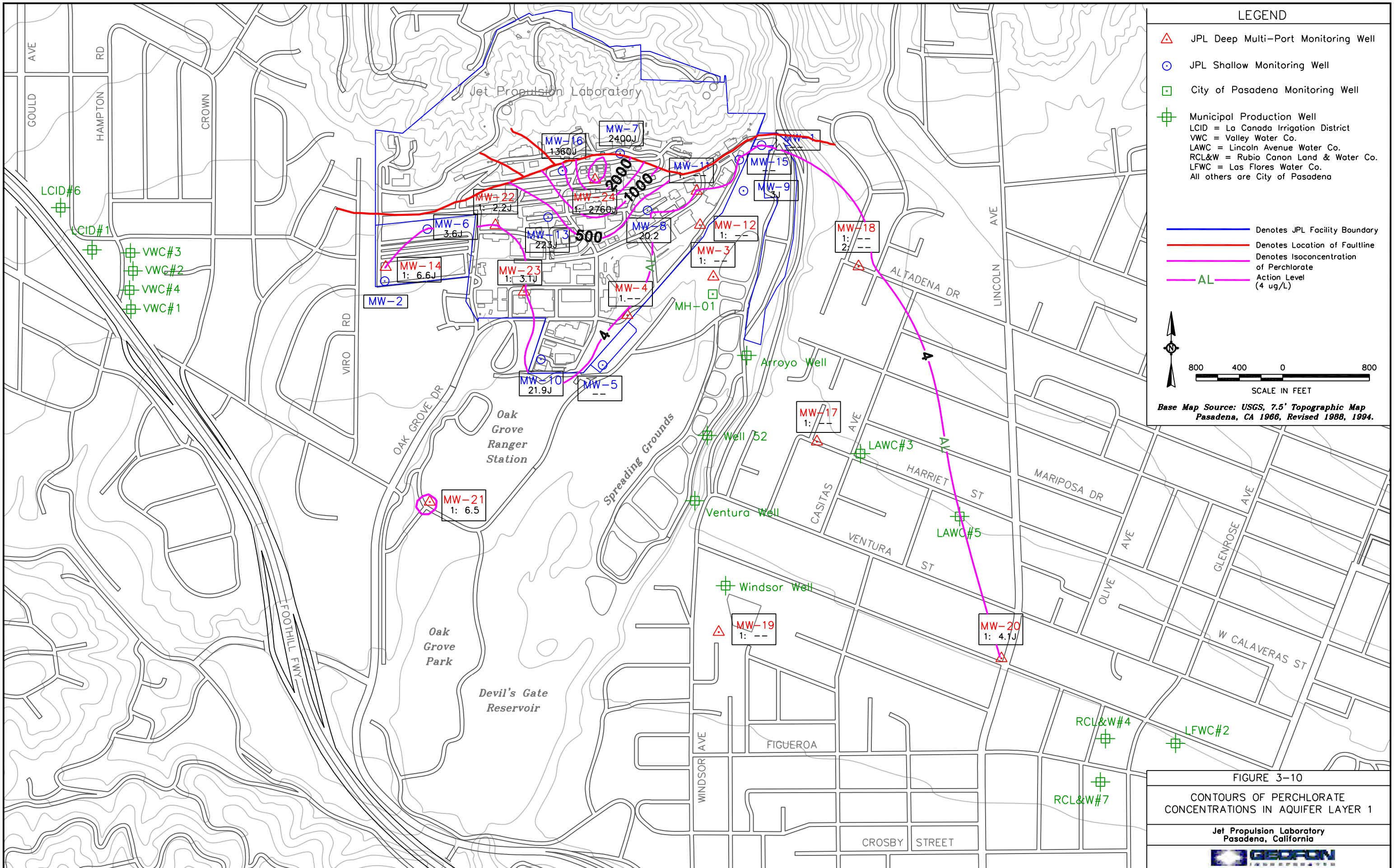
- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Tetrachloroethene
- MCL Maximum Contaminant Level (5.0 ug/L)

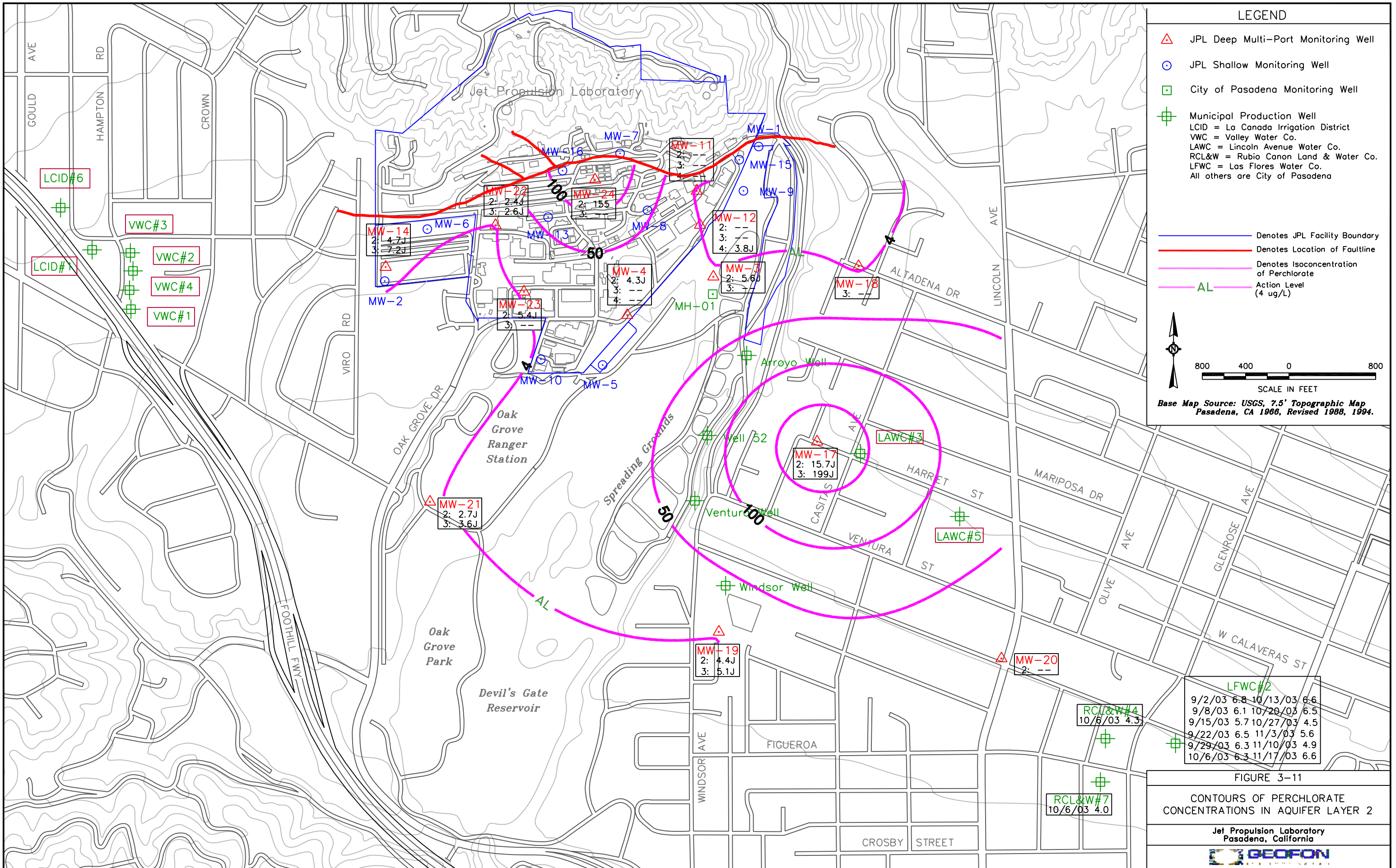


Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1966, Revised 1988, 1994.

LFWC#2			
9/2/03	11.0	10/13/03	14.0
9/8/03	11.0	10/29/03	14.0
9/15/03	10.0	10/27/03	8.8
9/22/03	8.7	11/3/03	18.0
9/29/03	13.0	11/10/03	13.0
10/6/03	13.0	11/17/03	11.0

FIGURE 3-9
 CONTOURS OF TETRACHLOROETHENE
 CONCENTRATIONS IN AQUIFER LAYER 3





LEGEND

- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well

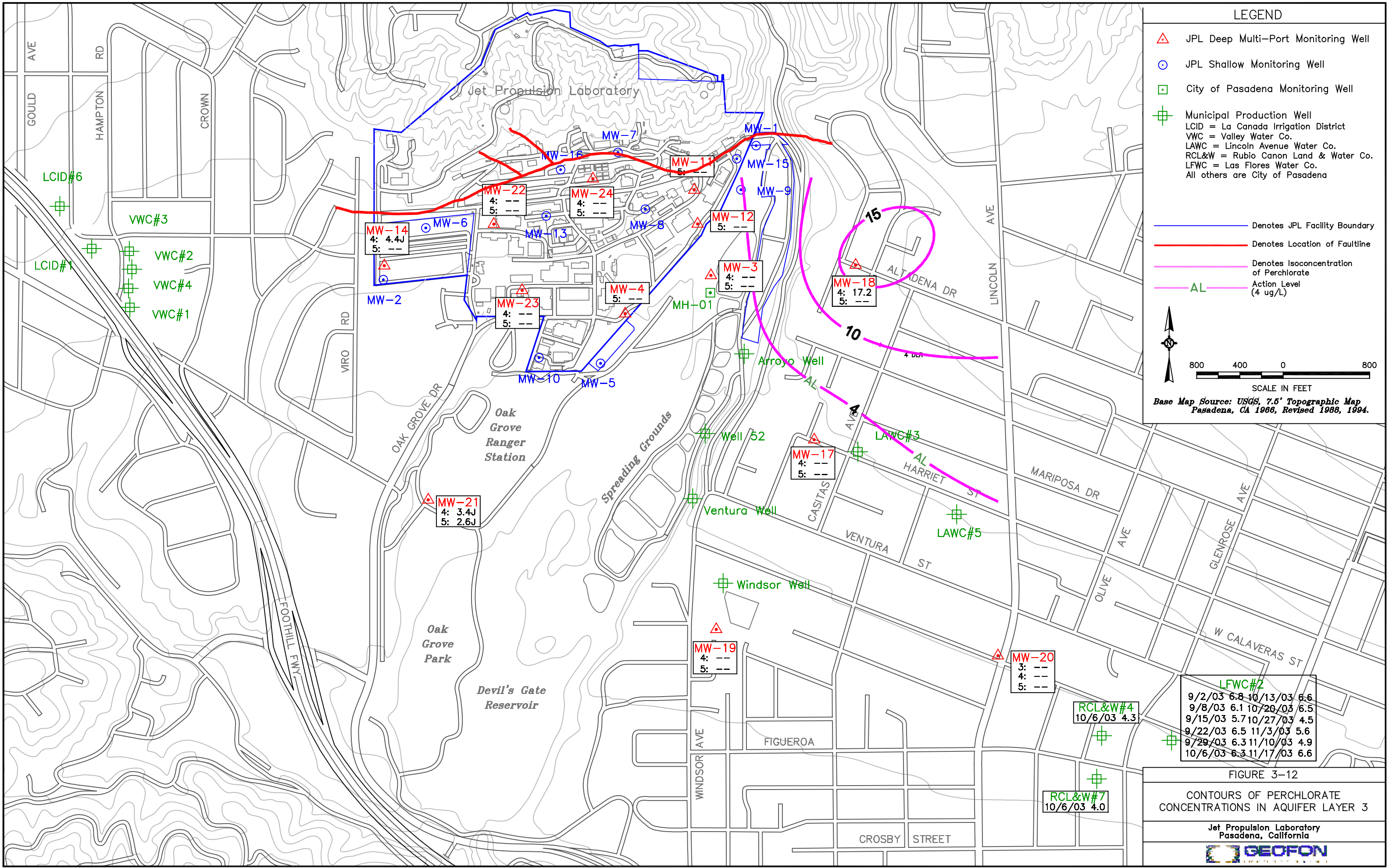
LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAWG = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Perchlorate
- AL Action Level (4 ug/L)

800 400 0 800
 SCALE IN FEET
 Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1968, Revised 1988, 1994.

Well ID	Date	Concentration (ug/L)
LFWC#2	9/2/03	6.8
	10/13/03	6.6
	9/8/03	6.1
	10/20/03	6.5
	9/15/03	5.7
	10/27/03	4.5
RCL&W#4	10/6/03	4.3
	9/22/03	6.5
	11/3/03	5.6
	9/29/03	6.3
11/10/03	4.9	
	10/6/03	6.3
11/17/03	6.6	

FIGURE 3-11
 CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 2
 Jet Propulsion Laboratory Pasadena, California



LEGEND

- △ JPL Deep Multi-Port Monitoring Well
- JPL Shallow Monitoring Well
- City of Pasadena Monitoring Well
- ⊕ Municipal Production Well

LCID = La Canada Irrigation District
 VWC = Valley Water Co.
 LAWC = Lincoln Avenue Water Co.
 RCL&W = Rubio Canon Land & Water Co.
 LFWC = Las Flores Water Co.
 All others are City of Pasadena

- Denotes JPL Facility Boundary
- Denotes Location of Faultline
- Denotes Isoconcentration of Perchlorate
- AL Action Level (4 ug/L)

800 400 0 800
 SCALE IN FEET
 Base Map Source: USGS, 7.5' Topographic Map Pasadena, CA 1986, Revised 1988, 1994.

Well ID	Date	Concentration (ug/L)
LFWC#2	9/2/03	6.8
	10/13/03	6.6
	9/8/03	6.1
	10/20/03	6.5
	9/15/03	5.7
	10/27/03	4.5
RCL&W#4	9/22/03	6.5
	11/3/03	5.6
	9/29/03	6.3
	11/10/03	4.9
RCL&W#7	10/6/03	4.3
	10/6/03	4.0

FIGURE 3-12
 CONTOURS OF PERCHLORATE CONCENTRATIONS IN AQUIFER LAYER 3
 Jet Propulsion Laboratory
 Pasadena, California