JPLF4-7.DWG

Jet Propulsion Laboratory

MW-1 N/A
MW-7 N/A
MW-16 N/A
MW-15 N/A
MW-11 5: --
MW-24 Not Installed
MW-9 N/A
MW-6 N/A
MW-8 N/A
MW-12 5: 3.4
MW-22 Not Installed
MW-13 N/A
MW-14 4: -- 5: --
MW-3 4: -- 5: --
MW-18 4: 2.2 5: --
MW-2
MW-23 Not Installed
MH-01
MW-4 5: --
MW-10 N/A
MW-5 N/A

La Canada Irrigation District Wells
Well #1: -- *3/97
Well #6: Not in Service

Valley Water Company Wells
Well #3: -- *8/96
Well #2: -- *8/96
Well #4: -- *8/96
Well #1: -- *8/96

City of Pasadena Arroyo Well
4.7 *9/96

City of Pasadena Well 52
0.7 *9/96

MW-17 4: -- 5: --

Lincoln Ave. Water Co. Well #3
0.9 *9/96

City of Pasadena Ventura Well
-- *11/96

Lincoln Ave. Water Co. Well #5
0.6 *8/96

City of Pasadena Windsor Well
-- *7/96

MW-21 4: -- 5: --

MW-19 4: 0.5 5: --

MW-20 3: -- 4: --

Rubio Cañon Land and Water Co. Wells
Well #4: -- *12/94
Well #7: -- *12/94

Las Flores Water Co. Well #2
-- *12/96

Oak Grove Ranger Station

Oak Grove Park

Devil's Gate Reservoir

Spreading Grounds

GOULD AVE
HAMPTON RD
CROWN
VIRO RD
OAK GROVE DR
FOOTHILL FWY
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
VENTURA ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- 4: Screen Number for Wells in this Aquifer Layer
- -- Not Detected (< 0.5 µg/L)
- N/A Not Applicable
- *12/94 Date Represents Nearest Sampling Event with Respect to JPL Sampling Round.
- JPL Thrust Fault
- JPL Property Line
- Concentrations 0.5 to 5.0 µg/L (MCL: 0.5 µg/L)

Note: Distinctions between concentration (color) contours may become less clear in black and white photocopies. Refer to the original color figure for best resolution.

N

800 400 0 800
SCALE IN FEET

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

FIGURE 4-8

CARBON TETRACHLORIDE
AQUIFER LAYER 3

August – September 1996

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

1-12-99

JPLF4-8.DWG

Jet Propulsion Laboratory

MW-1 N/A
MW-2
MW-3 4: --- 5: ---
MW-4 5: ---
MW-5 N/A
MW-6 N/A
MW-7 N/A
MW-8 N/A
MW-9 N/A
MW-10 N/A
MW-11 5: ---
MW-12 5: 1.3
MW-13 N/A
MW-14 4: --- 5: ---
MW-15 N/A
MW-16 N/A
MW-17 4: --- 5: ---
MW-18 4: 2.6 5: ---
MW-19 4: --- 5: ---
MW-20 3: --- 4: --- 5: ---
MW-21 4: --- 5: ---
MW-22 4: --- 5: ---
MW-23 4: --- 5: ---
MW-24 4: --- 5: ---
MH-01

La Canada Irrigation District Wells
Well #1: --- *3/97
Well #6: Not in Service

Valley Water Company Wells
Well #3: --- *9/97
Well #2: --- *9/97
Well #4: --- *7/97
Well #1: --- *8/97

City of Pasadena Arroyo Well
4.7 *6/97

City of Pasadena Well 52
0.7 *1/98

City of Pasadena Ventura Well
--- *10/97

City of Pasadena Windsor Well
--- *9/97

Lincoln Ave. Water Co. Well #3
0.8 *1/98

Lincoln Ave. Water Co. Well #5
--- *6/97

Rubio Cañon Land and Water Co. Wells
Well #4: --- *12/94
Well #7: --- *12/97

Las Flores Water Co. Well #2
--- *1/98

Oak Grove Ranger Station

Oak Grove Park

Devil's Gate Reservoir

Spreading Grounds

GOULD AVE
HAMPTON RD
CROWN
VIRO RD
OAK GROVE DR
FOOTHILL FWY
LINCOLN AVE
ALTADENA DR
HARRIET ST
MARIPOSA DR
CASITAS
VENTURA ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

#6 #1 #3 #2 #4 #1 #4 #7

Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- 4: Screen Number for Wells in this Aquifer Layer
- --- Not Detected (< 0.5 µg/L)
- N/A Not Applicable
- *12/94 Date Represents Nearest Sampling Event with Respect to JPL Sampling Round.
- JPL Thrust Fault
- JPL Property Line
- Concentrations 0.5 to 5.0 µg/L (MCL: 0.5 µg/L)

Note: Distinctions between concentration (color) contours may become less clear in black and white photocopies. Refer to the original color figure for best resolution.

N

800 400 0 800
SCALE IN FEET

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

FIGURE 4-9

CARBON TETRACHLORIDE AQUIFER LAYER 3

January – February 1998

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

1-12-99

JPLF4-9.DWG

Jet Propulsion Laboratory

MW-1 ---
MW-7 39.0
MW-16 33.0
MW-11 1: ---
MW-15 ---
MW-24 Not Installed
MW-9 ---
MW-6 ---
MW-8 4.6
MW-12 1: ---
MW-13 47.0
MW-22 Not Installed
MW-14 N/A
MW-3 1: ---
MH-01
MW-2
MW-23 Not Installed
MW-4 1: ---
MW-18 1: --- 2: ---
MW-10 18.0
MW-5 ---
MW-17 1: ---
MW-21 1: 33.0
MW-19 1: ---
1: ---

La Canada Irrigation District Wells
Well #1: --- *3/97
Well #6: Not in Service

Valley Water Company Wells
Well #3: --- *9/96
Well #2: 0.8 *9/96
Well #4: 3.6 *8/96
Well #1: 4.5 *8/96

City of Pasadena Arroyo Well N/A
City of Pasadena Well 52 N/A
Lincoln Ave. Water Co. Well #3 N/A
City of Pasadena Ventura Well N/A
Lincoln Ave. Water Co. Well #5 N/A
City of Pasadena Windsor Well N/A
Las Flores Water Co. Well #2 --- *12/96
Rubio Cañon Land and Water Co. Wells
Well #4: --- *12/94
Well #7: --- *12/94

Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir

GOULD AVE
HAMPTON RD
CROWN
VIRO RD
OAK GROVE DR
FOOTHILL FWY
ALTADENA DR
LINCOLN AVE
Grounds
HARRIET ST
MARIPOSA DR
CASITAS AVE
VENTURA ST
FIGUEROA
WINDSOR AVE
CROSBY STREET

Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- 1: Screen Number for Wells in this Aquifer Layer
- --- Not Detected (< 0.5 µg/L)
- N/A Not Applicable
- *12/94 Date Represents Nearest Sampling Event with Respect to JPL Sampling Round.
- JPL Thrust Fault
- JPL Property Line
- Concentrations Between Detection Limit (0.5 µg/L) & MCL 5.0 µg/L
- Concentrations 5.0 to 20.0 µg/L
- Concentrations Above 20.0 µg/L

Note: Distinctions between concentration (color) contours may become less clear in black and white photocopies. Refer to the original color figure for best resolution.

N

800 400 0 800
SCALE IN FEET

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

FIGURE 4-10

TRICHLOROETHENE IN AQUIFER LAYER 1

August – September 1996

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

1-12-99

Continue

JPLF4-10.DWG

Jet Propulsion Laboratory

MW-7 24.0
MW-16 3.5
MW-11 1: --
MW-24 1: 15.0
MW-6 --
MW-13 5.2
MW-8 1.3
MW-22 1: --
MW-14 1: --
MW-2
MW-23 1: 4.2
MW-4 1: --
MW-10 1.1
MW-5 --
MW-21 1: 16.0
MW-1 --
MW-15 --
MW-9 --
MW-12 1: --
MW-3 1: --
MH-01
MW-18 1: NS 2: --
MW-17 --
MW-19 1: --
MW-20 1: --

La Canada Irrigation District Wells
Well #1: -- *3/97
Well #6: Not in Service

Valley Water Company Wells
Well #3: -- *9/97
Well #2: 1.0 *9/97
Well #4: 2.6 *7/97
Well #1: 3.5 *7/97

City of Pasadena Arroyo Well N/A
City of Pasadena Well 52 N/A
City of Pasadena Ventura Well N/A
City of Pasadena Windsor Well N/A
Lincoln Ave. Water Co. Well #3 N/A
Lincoln Ave. Water Co. Well #5 N/A
Las Flores Water Co. Well #2 -- *1/98
Rubio Cañon Land and Water Co. Wells
Well #4: -- *12/94
Well #7: -- *12/94

Oak Grove Ranger Station
Oak Grove Park
Devil's Gate Reservoir
Spreading Grounds

GOULD AVE
HAMPTON RD
CROWN
VIRO RD
OAK GROVE DR
FOOTHILL FWY
ALTADENA DR
LINCOLN AVE
CASITAS AVE
HARRIET ST
MARIPOSA DR
VENTURA ST
WINDSOR AVE
FIGUEROA
CROSBY STREET

Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- 1: Screen Number for Wells in this Aquifer Layer
- -- Not Detected (< 0.5 µg/L)
- N/A Not Applicable
- NS Not Sampled
- *12/94 Date Represents Nearest Sampling Event with Respect to JPL Sampling Round.
- JPL Thrust Fault
- JPL Property Line
- Concentrations Between Detection Limit (0.5 µg/L) & MCL (5.0 µg/L)
- Concentrations 5.0 to 20.0 µg/L
- Concentrations Above 20.0 µg/L

Note: Distinctions between concentration (color) contours may become less clear in black and white photocopies. Refer to the original color figure for best resolution.

N

800 400 0 800
SCALE IN FEET

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

12-11-98

FIGURE 4-11

TRICHLOROETHENE
AQUIFER LAYER 1

January - February 1998

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION