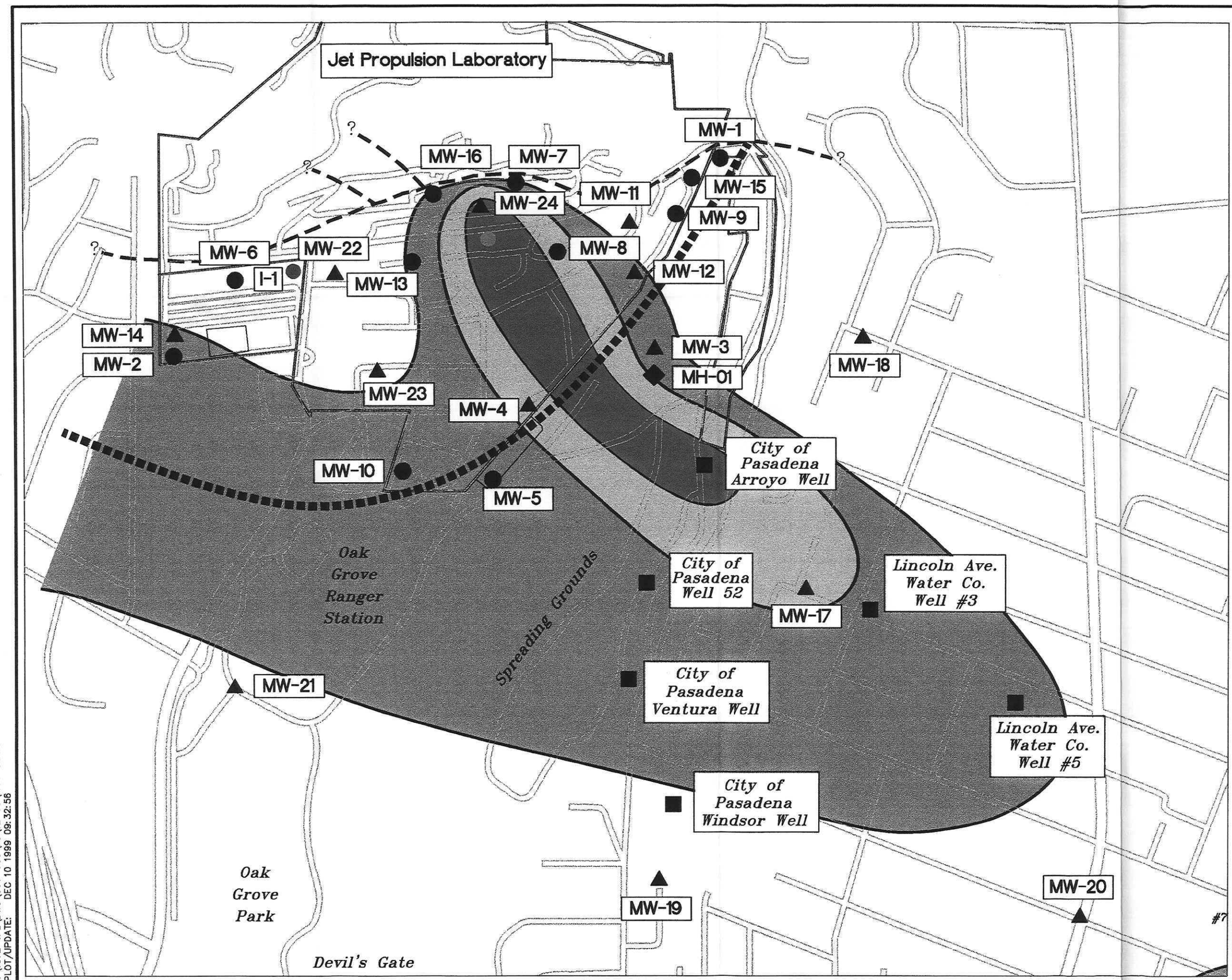
Previous



Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- JPL Thrust Fault
- JPL Property Line

Perchlorate Plume

- Concentrations Between Detection Limit (4.0 μg/L) and IAL (18.0 μg/L)
- Concentrations 18.0 to 100.0 μg/L
- Concentrations 100.0 to 500.0 μg/L
- Extraction Well (500 gpm)
- Infiltration Well (500 gpm)
- Approximate zone of capture [Groundwater within the limits of this countour is captured by the extraction well(s)]

Note: Infiltration was simulated with model layer 1 only.

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

600 300 0 600

SCALE IN FEET

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

FIGURE 4-8

CAPTURE ZONE FOR GROUNDWATER MODEL SIMULATION OF ALTERNATIVE 2: ON-SITE SOURCE REDUCTION
(AQUIFER LAYER 2, MARCH)

Jet Propulsion Laboratory
Pasadena, California

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I:\1572-JPL\DWG\OU1-OU3\FS\12-99\FIG4-8.DWG
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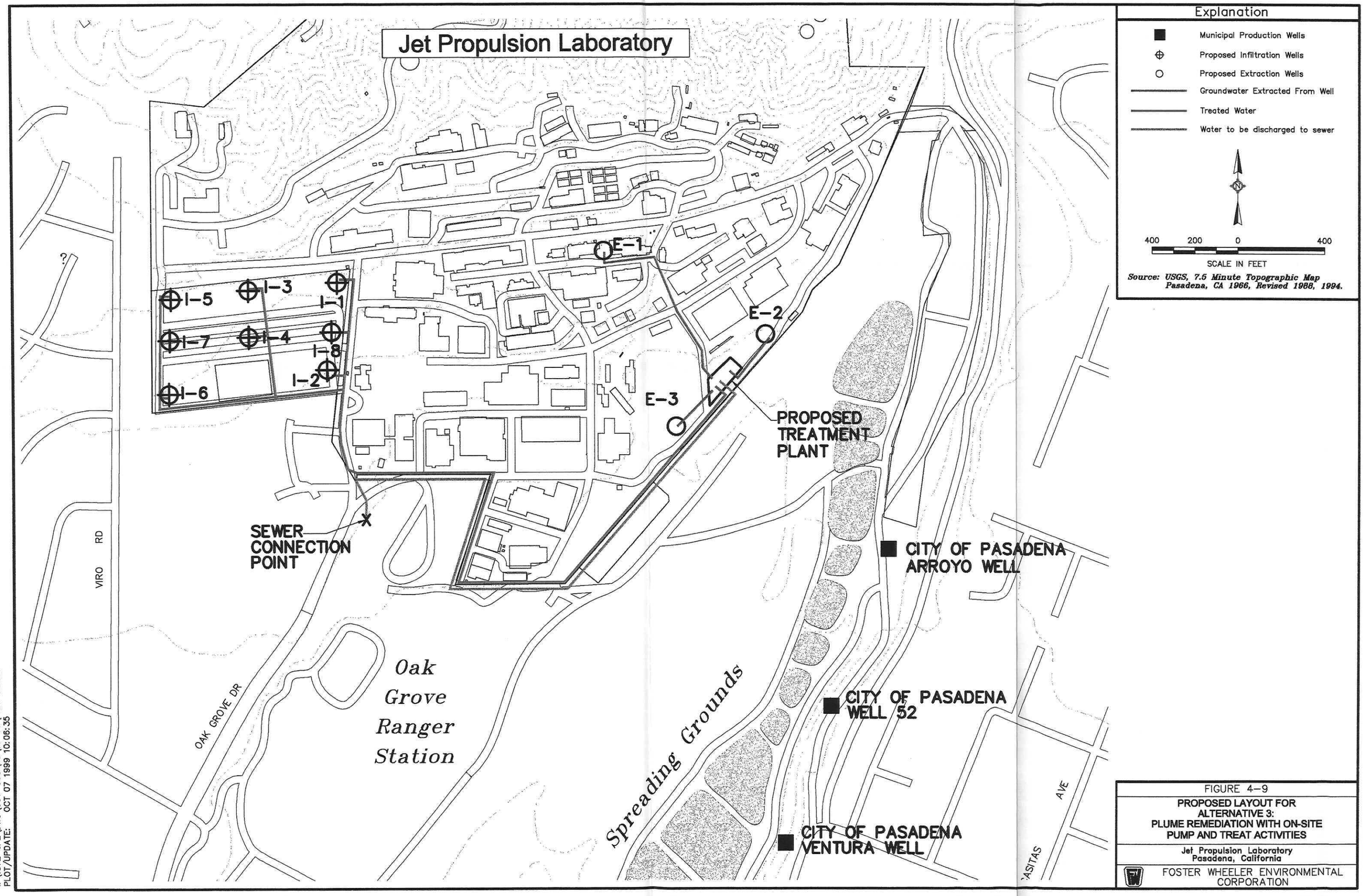

FIGURE 4-9

PROPOSED LAYOUT FOR ALTERNATIVE 3: PLUME REMEDIATION WITH ON-SITE PUMP AND TREAT ACTIVITIES

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I:\1572-JPL\DWG\OU1-OU3\FS\10-99\FIG4-9.DWG
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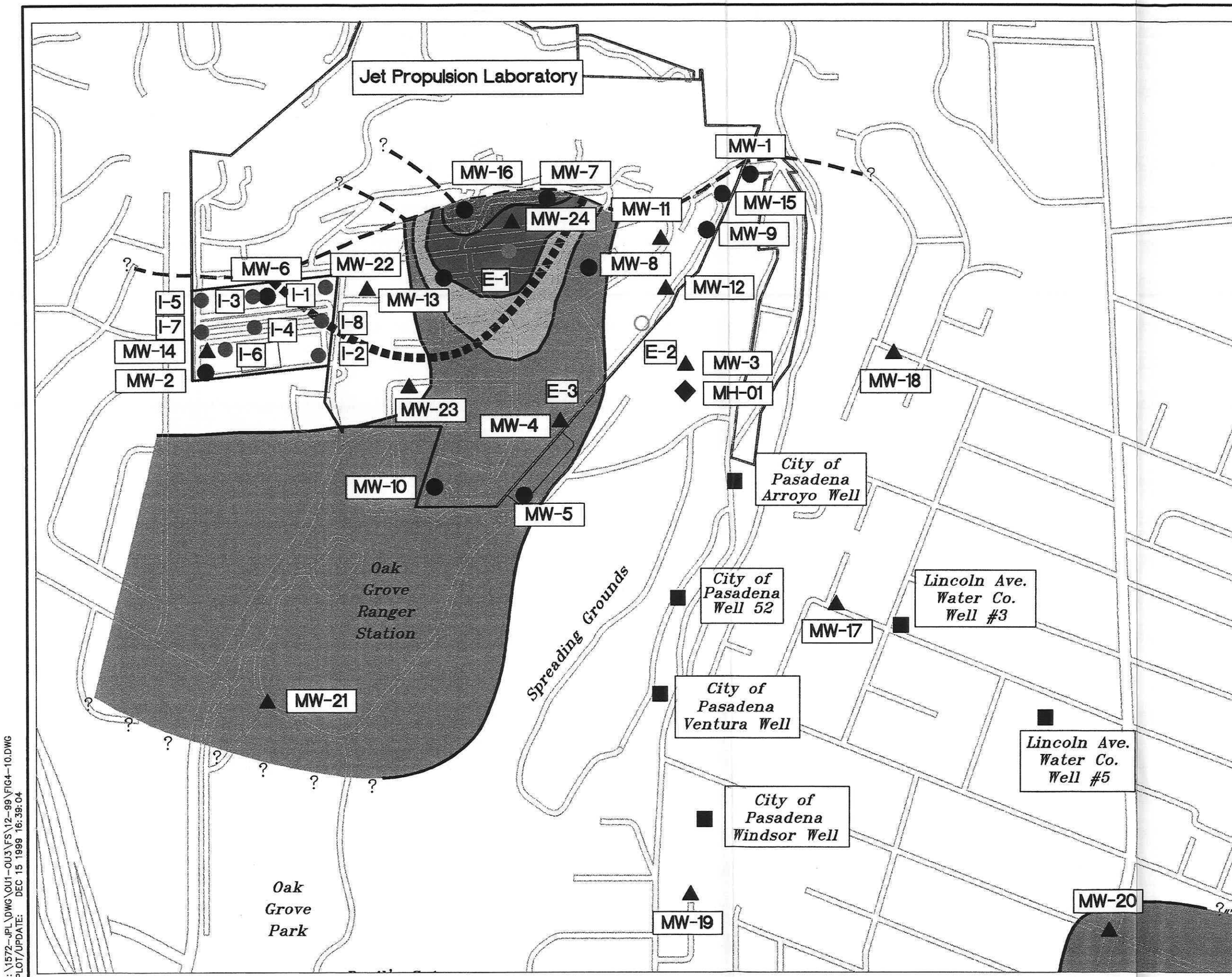

Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- JPL Thrust Fault
- JPL Property Line

Perchlorate Plume

- Concentrations Between Detection Limit (4.0 µg/L) and IAL (18.0 µg/L)
- Concentrations 18.0 to 100.0 µg/L
- Concentrations 100.0 to 500.0 µg/L
- Concentrations Above 500.0 µg/L
- Extraction Wells
- Extraction well not screened in aquifer layer shown. (See notes.)
- Infiltration Well (875 gpm)
- Approximate zone of capture [Groundwater within the limits of this countour is captured by the extraction well(s)]

Note: Infiltration was simulated with model layer 1 only.

Note: Well E-1 extracts 1000gpm from layers 1 and 2; wells E-2 and E-3 extract 3000 gpm from layers 2 and 3.

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

600 300 0 600

SCALE IN FEET

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

FIGURE 4-10

CAPTURE ZONE FOR GROUNDWATER MODEL SIMULATION OF ALTERNATIVE 3: PERCHLORATE PLUME REMEDIATION WITH ON-SITE PUMPING (AQUIFER LAYER 1, SEPTEMBER)

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Pasadena, California

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I:\1572-JPL\DWG\OU1-OU3\FS\12-99\FIG4-10.DWG
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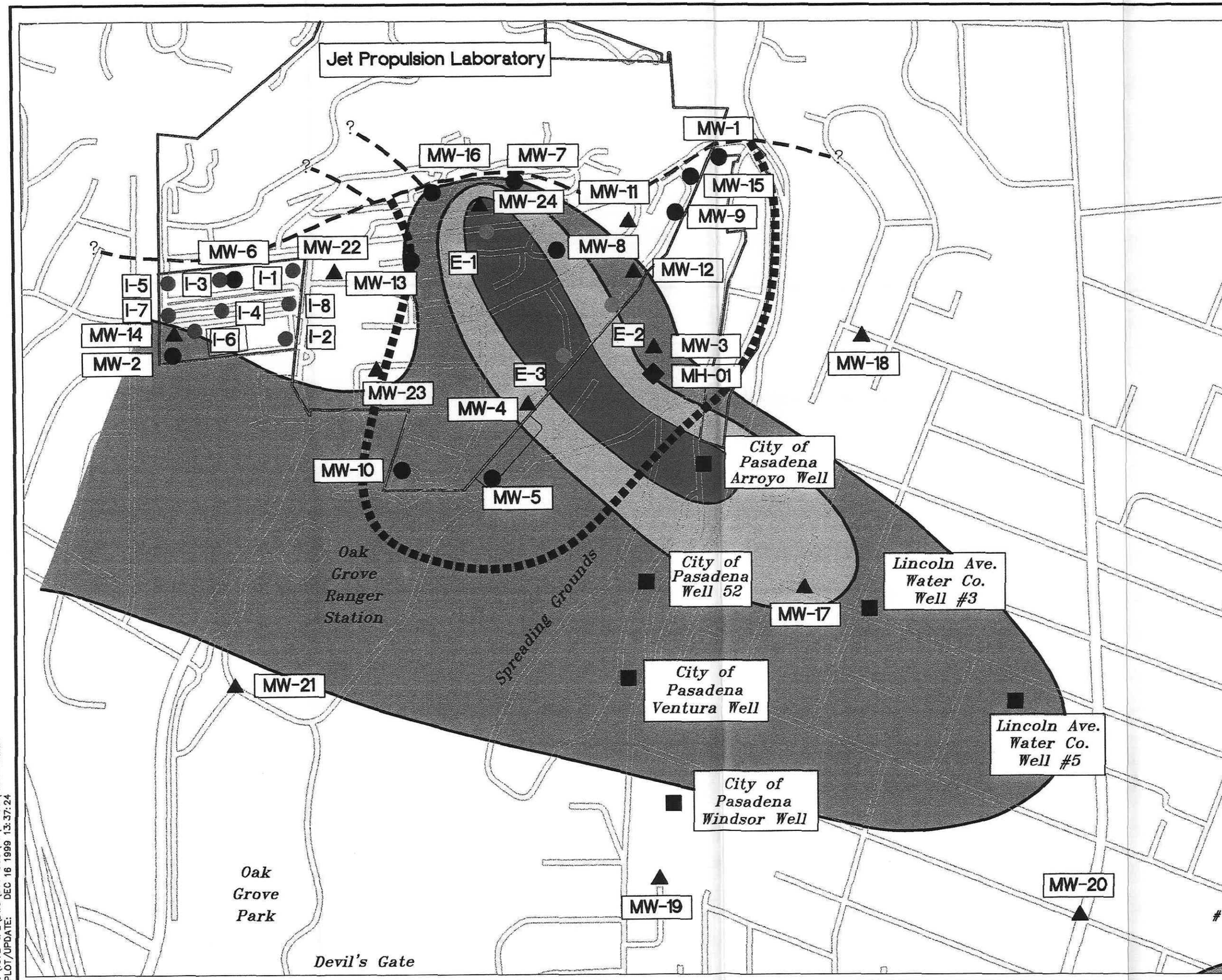

Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- JPL Thrust Fault
- JPL Property Line

Perchlorate Plume

- Concentrations Between Detection Limit (4.0 μg/L) and IAL (18.0 μg/L)
- Concentrations 18.0 to 100.0 μg/L
- Concentrations 100.0 to 500.0 μg/L
- Extraction Well
- Infiltration Well (875 gpm)
- Approximate zone of capture [Groundwater within the limits of this countour is captured by the extraction well(s)]

Note: Infiltration was simulated with model layer 1 only.

Note: Well E-1 extracts 1000gpm from layers 1 and 2; wells E-2 and E-3 extract 3000 gpm from layers 2 and 3.

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

600 300 0 600

SCALE IN FEET

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

FIGURE 4-11

CAPTURE ZONE FOR GROUNDWATER MODEL SIMULATION OF ALTERNATIVE 3: PERCHLORATE PLUME REMEDIATION WITH ON-SITE PUMPING (AQUIFER LAYER 2, SEPTEMBER)

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

I:\1572-JPL\DWG\OU1-OU3\FS\12-99\FIG4-11.DWG
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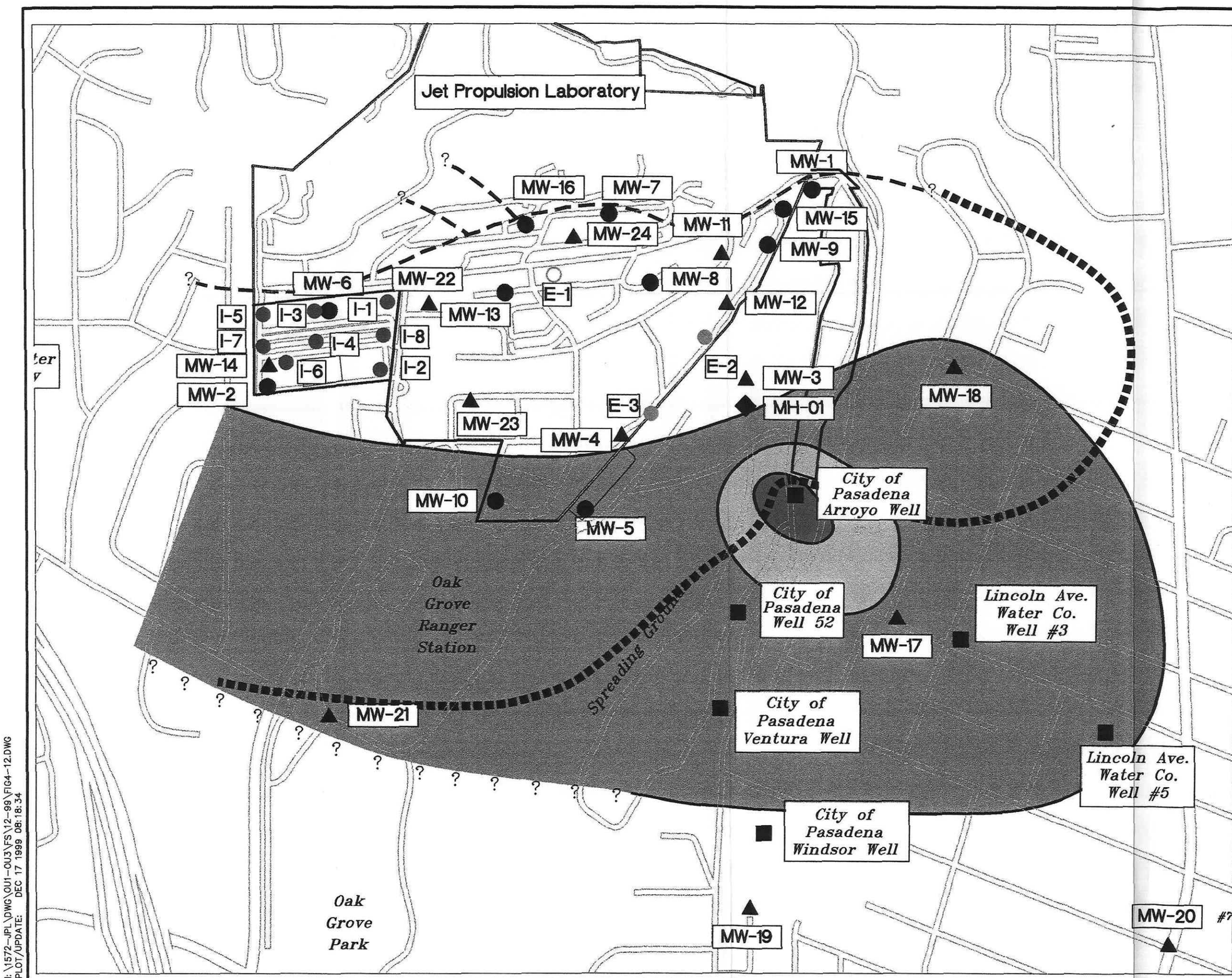
Continue



Explanation

- JPL Shallow Monitoring Wells
- JPL Deep Multi-Port Monitoring Wells
- Municipal Production Wells
- City of Pasadena Monitoring Well
- JPL Thrust Fault
- JPL Property Line

Perchlorate Plume

- Concentrations Between Detection Limit (4.0 µg/L) and IAL (18.0 µg/L)
- Concentrations 18.0 to 100.0 µg/L
- Concentrations 100.0 to 500.0 µg/L
- Extraction Well
- Extraction well not screened in aquifer layer shown. (See notes.)
- Infiltration Well (875 gpm)
- Approximate zone of capture [Groundwater within the limits of this countour is captured by the extraction well(s)]

Note: Infiltration was simulated with model layer 1 only.

Note: Well E-1 extracts 1000gpm from layers 1 and 2; wells E-2 and E-3 extract 3000 gpm from layers 2 and 3.

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

600 300 0 600

SCALE IN FEET

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

FIGURE 4-12

CAPTURE ZONE FOR GROUNDWATER MODEL SIMULATION OF ALTERNATE 3: PERCHLORATE PLUME REMEDIATION WITH ON-SITE PUMPING (AQUIFER LAYER 3, SEPTEMBER)

Jet Propulsion Laboratory
Pasadena, California

FOSTER WHEELER ENVIRONMENTAL CORPORATION

I:\1572-JPL\DWG\OU1-OU3\FS\12-99\FIG4-12.DWG
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