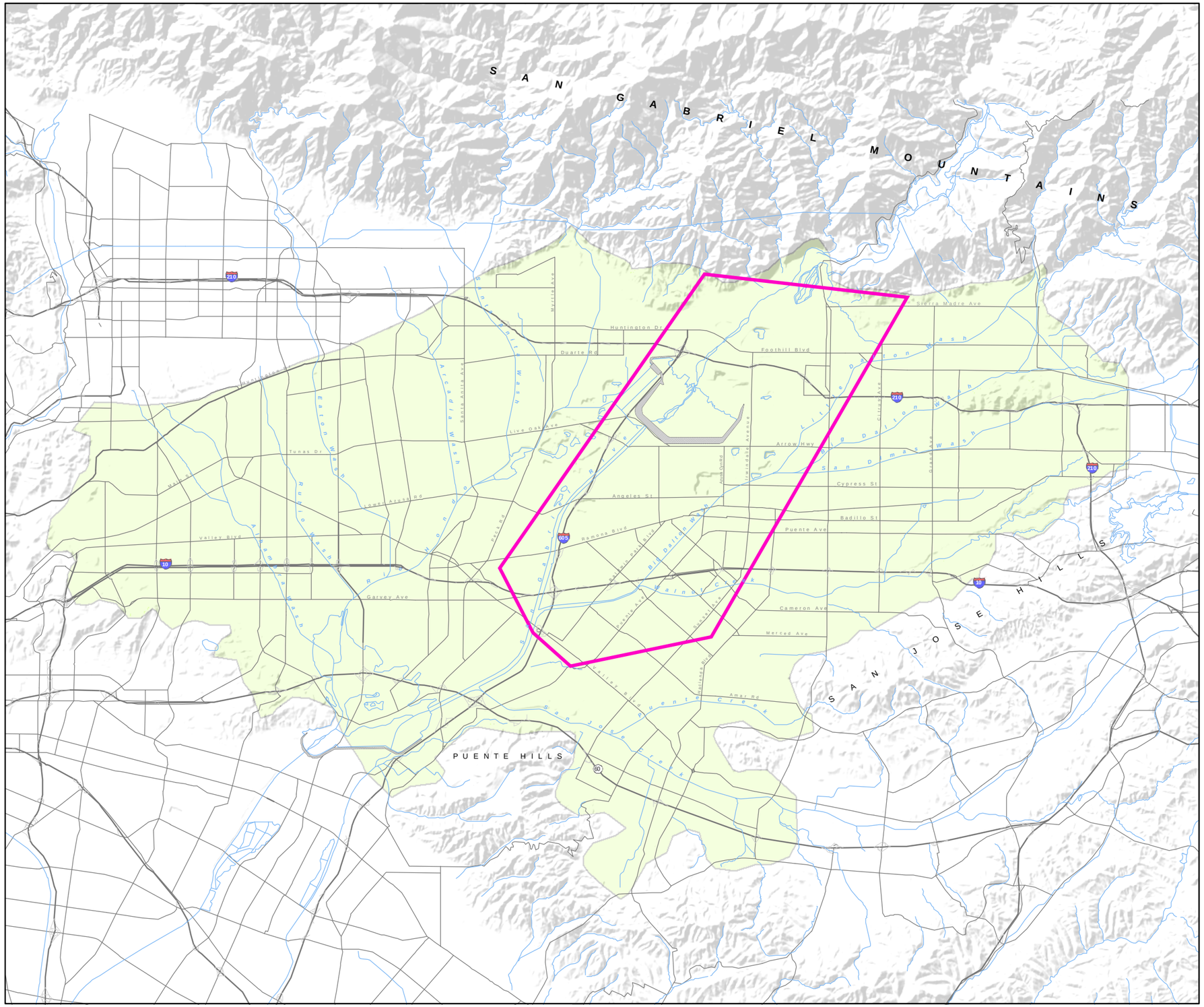
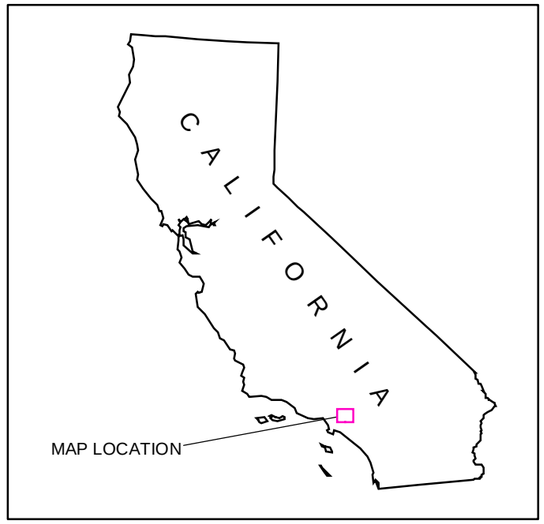




EXPLANATION

Approximate BPOU boundary

Extent of BPOU groundwater model

11,000 0 11,000

SCALE IN FEET

N

BPOU LOCATION MAP

Baldwin Park Operable Unit

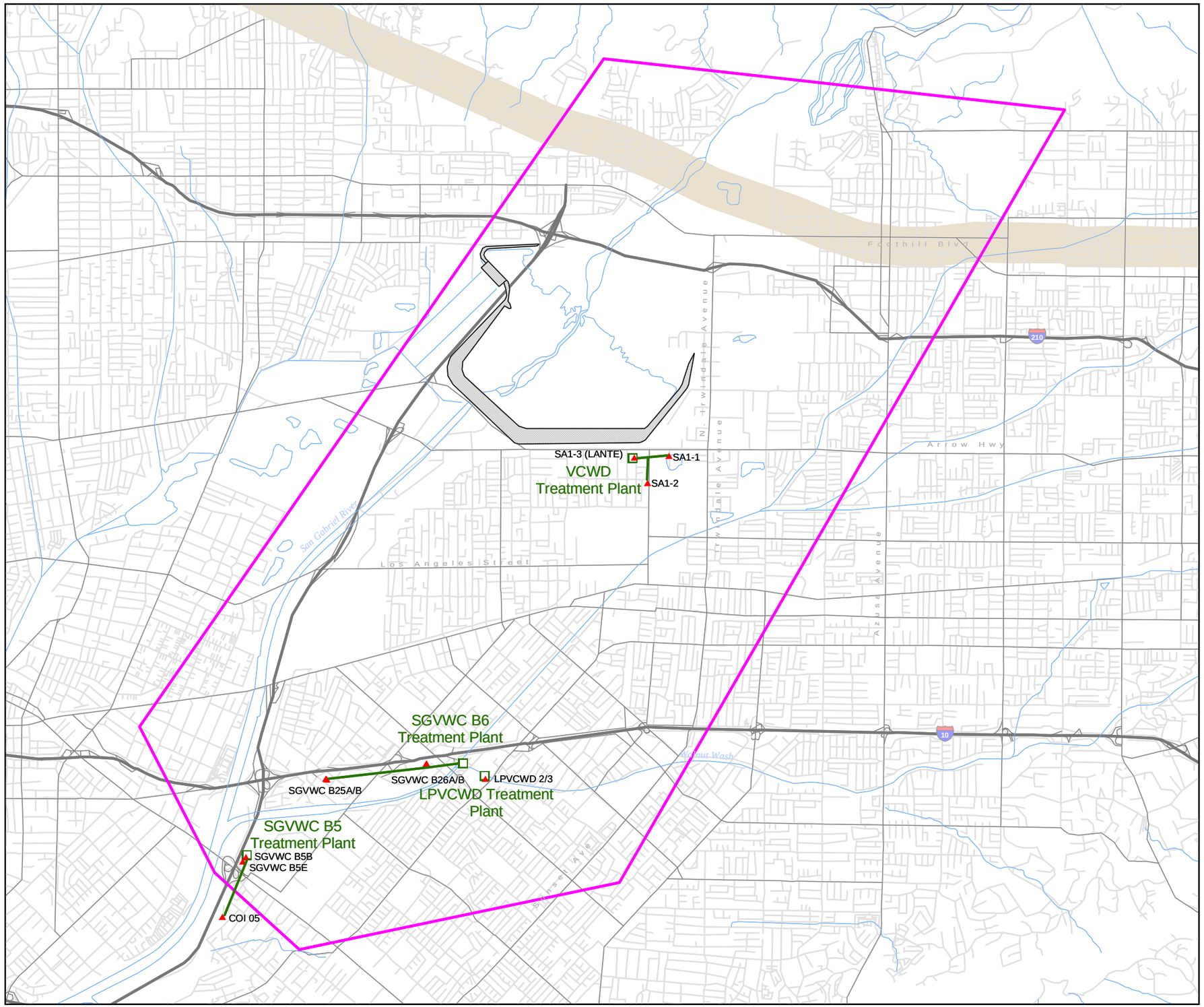
San Gabriel Valley, California

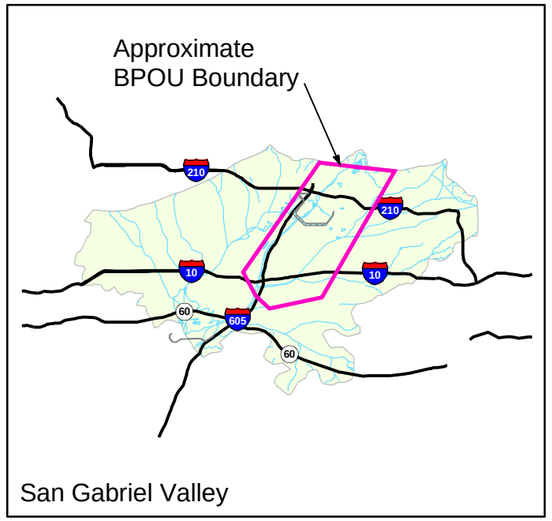
AMEC Geomatrix

Project No. 7190

Figure **1-1**

\\DENI-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual_Report-Maps\20081-01_BPOU_LocationMap.mxd





EXPLANATION

- Extraction well
- Treatment plant
- Raw water pipeline
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU PROJECT INFRASTRUCTURE MAP

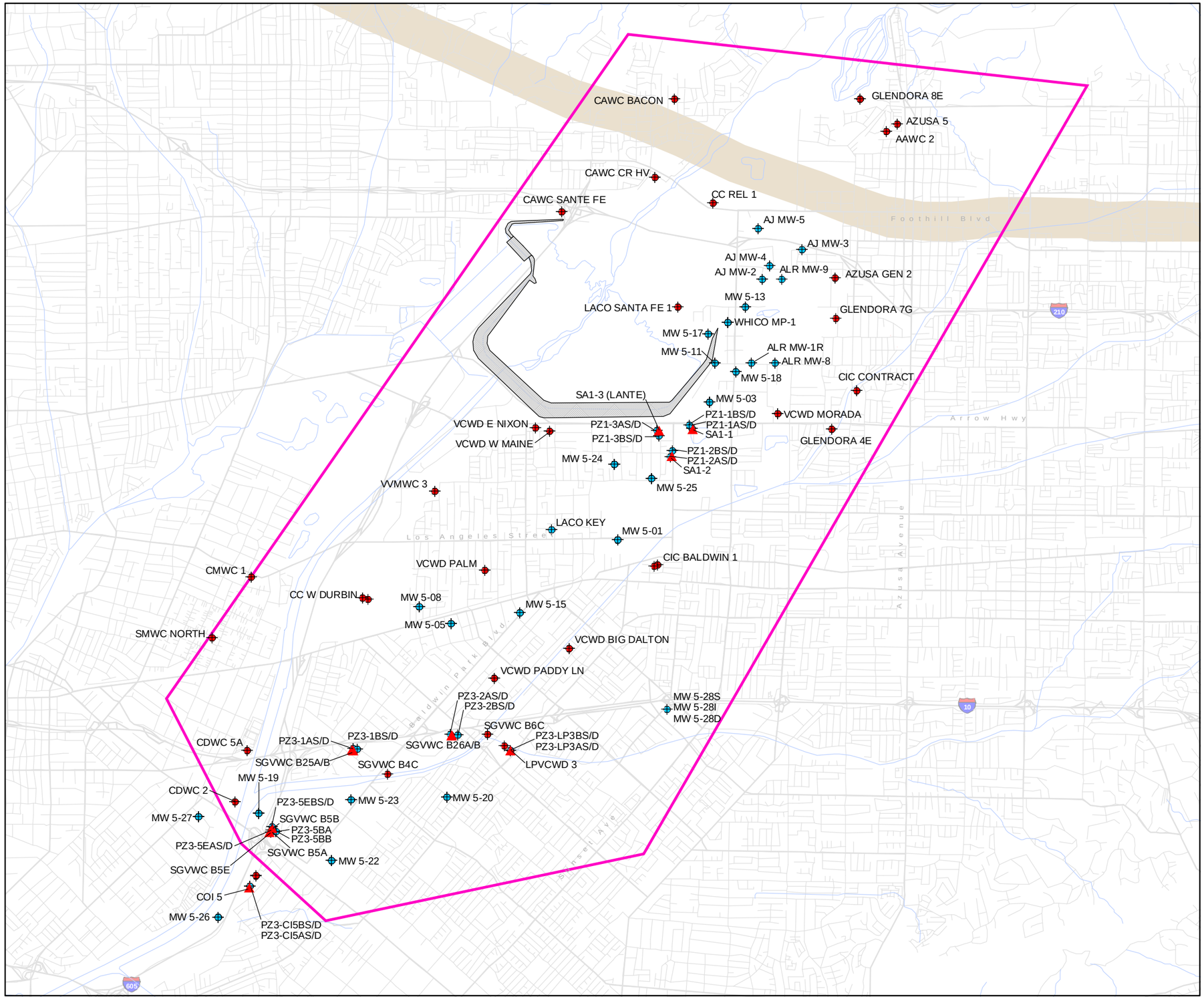
Baldwin Park Operable Unit
San Gabriel Valley, California

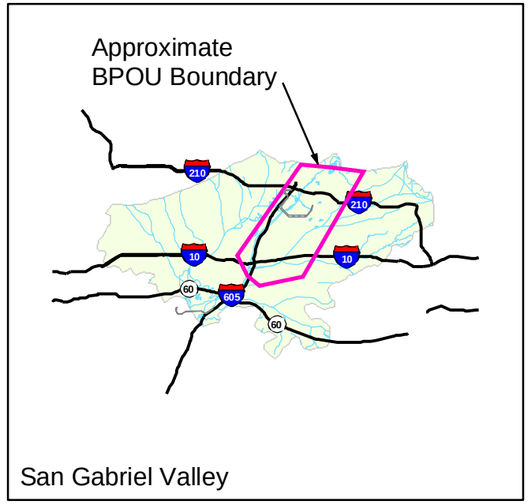
AMEC Geomatrix

Project No. 7190

Figure **1-2**

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual_Report-Maps\20081-02_BPOU_Infrastructure.mxd





EXPLANATION

- Multiport or monitoring well
- Extraction well
- Production well
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU-WIDE POTENTIOMETRIC MONITORING NETWORK

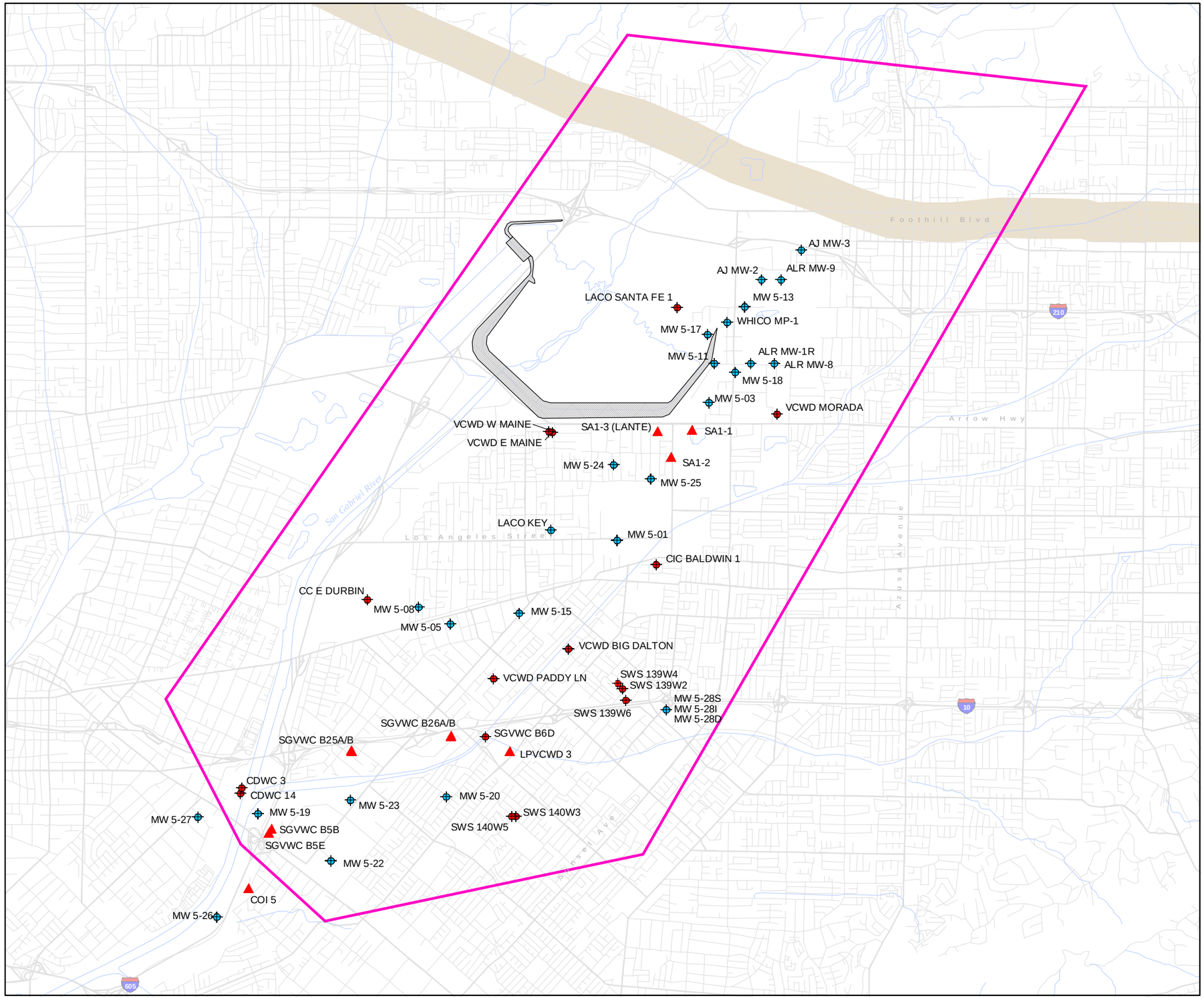
Baldwin Park Operable Unit
San Gabriel Valley, California

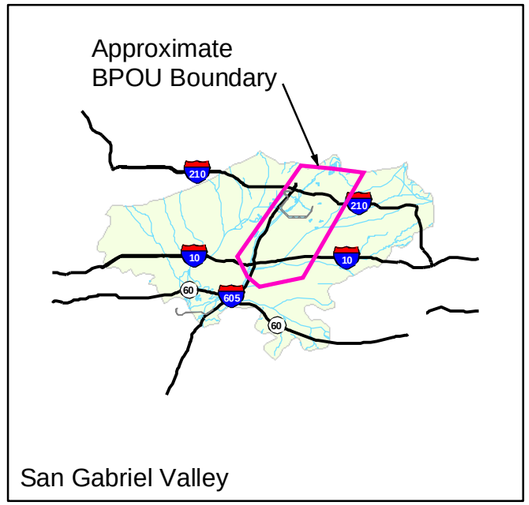
AMEC Geomatrix

Project No. 7190

Figure 3-1

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual_Report-Maps\2008\3-01_Pot_network_map.mxd





EXPLANATION

- Multiport or monitoring well
- Extraction well
- Production well
- Approximate BPOU boundary
- Duarte Fault Zone

5,000 0 5,000

SCALE IN FEET

N

BPOU-WIDE GROUNDWATER QUALITY MONITORING NETWORK

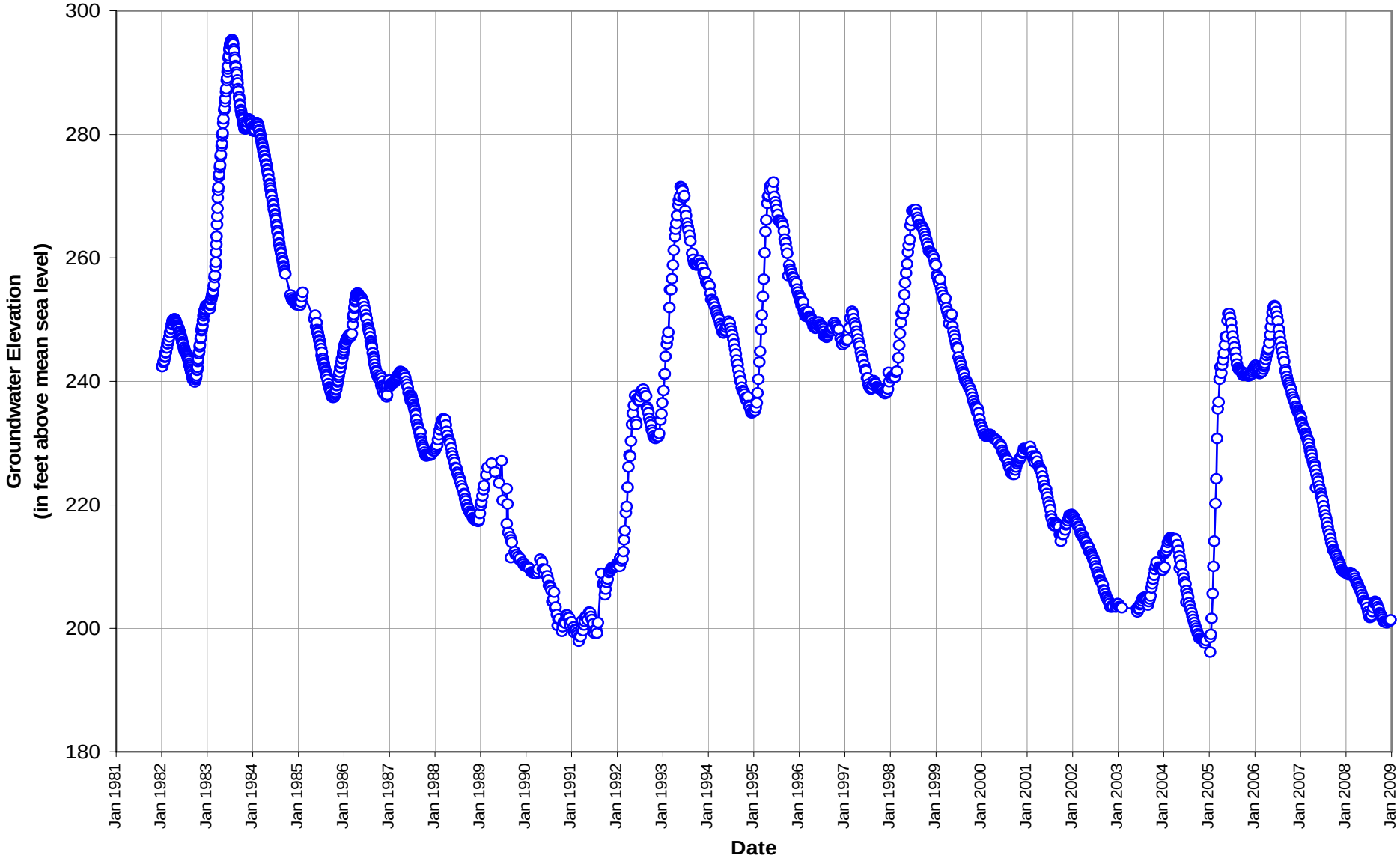
Baldwin Park Operable Unit
San Gabriel Valley, California

AMEC Geomatrix

Project No. 7190

Figure 3-2

\\DEN1-FS1\GIS\Projects\Aerojet_7190\GIS_maps\Annual_Report-Maps\20083-02_Qual_network_map.mxd

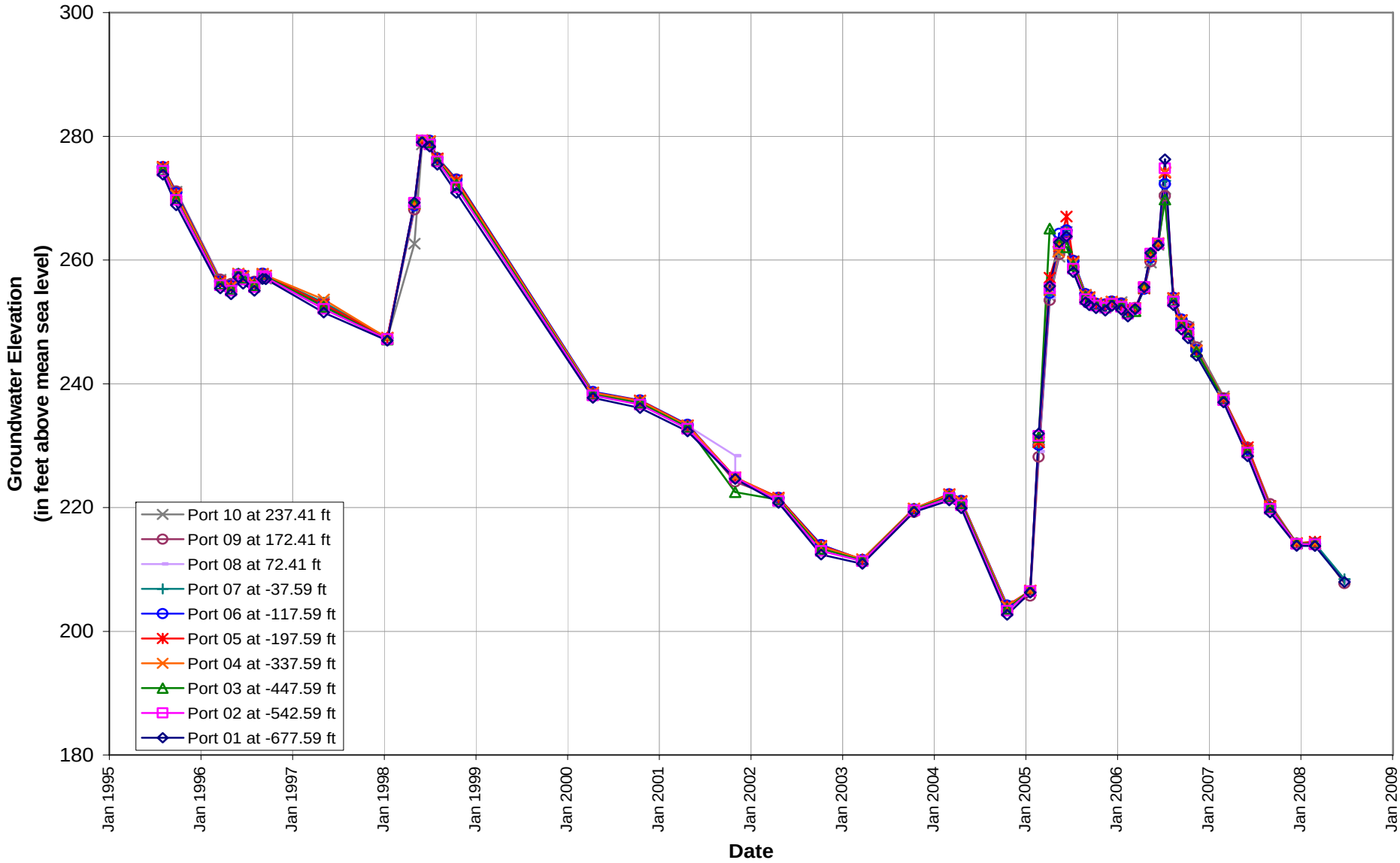


AMEC Geomatrix

LACO KEY WELL HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. 7190

Figure **5-1**

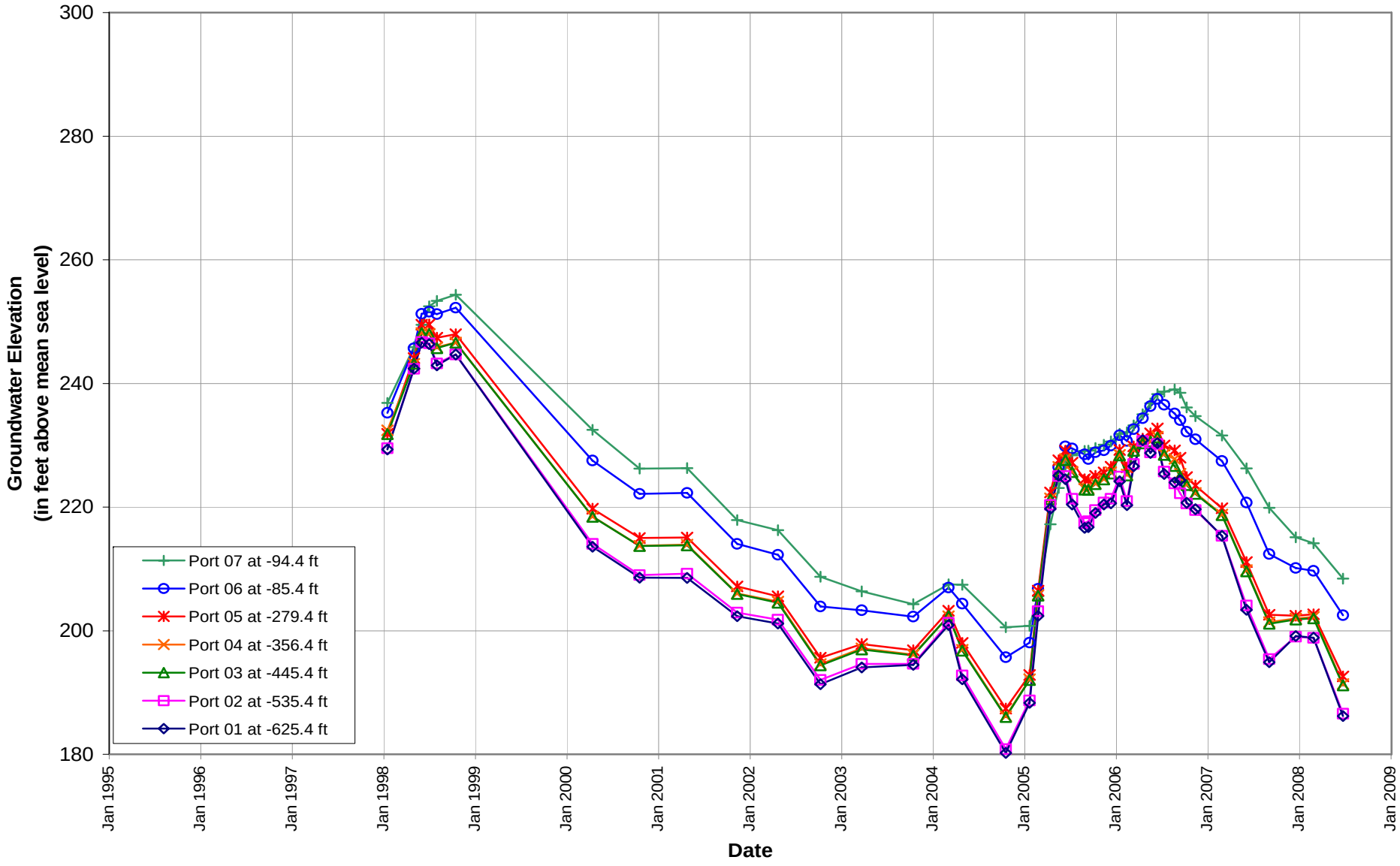


AMEC Geomatrix

MW 5-03 WELL HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. 7190

Figure **5-2**

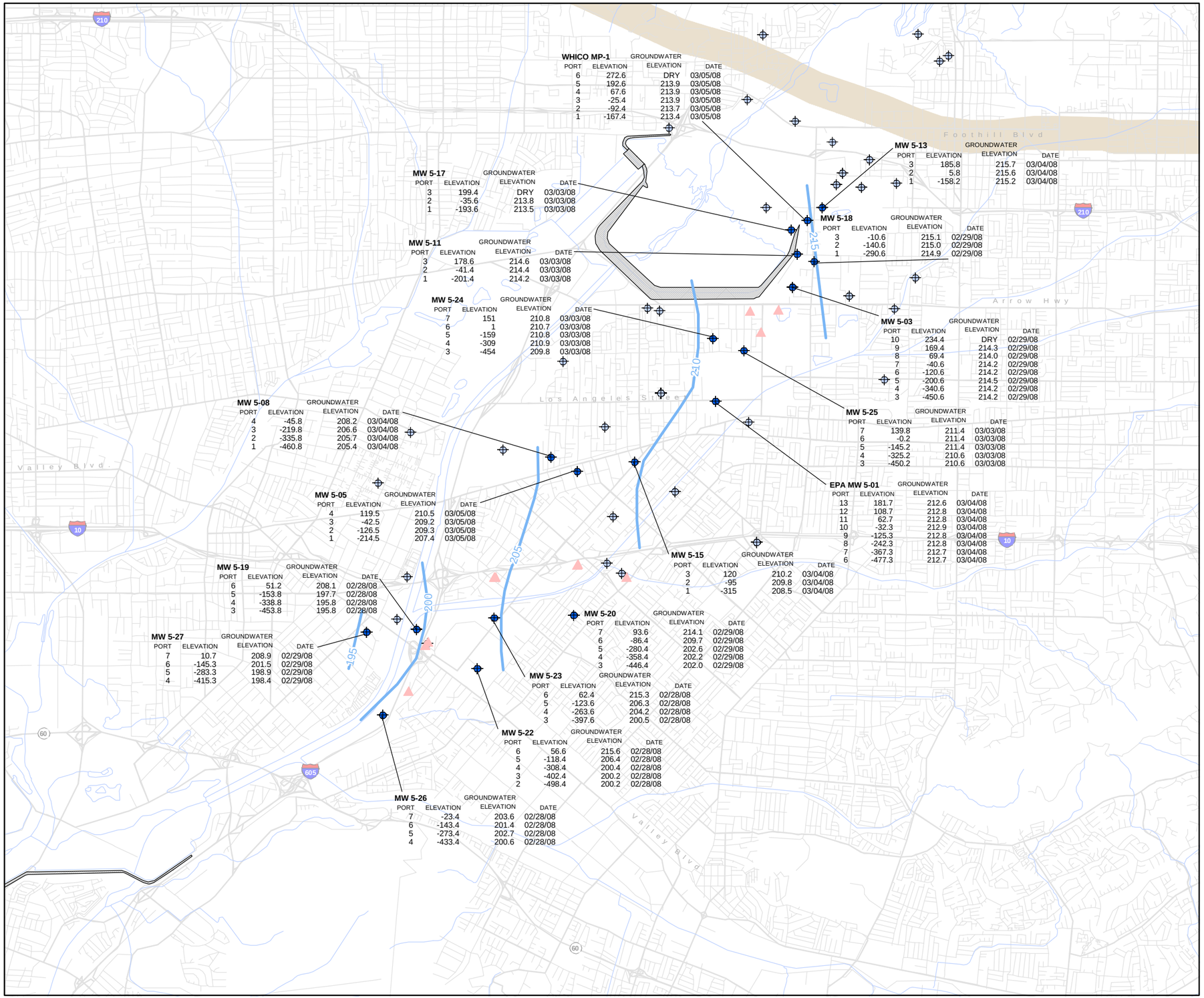


AMEC Geomatrix

MW 5-20 WELL HYDROGRAPH
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No. 7190

Figure **5-3**



WHICO MP-1

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	272.6	DRY	03/05/08
5	192.6	213.9	03/05/08
4	67.6	213.9	03/05/08
3	-25.4	213.9	03/05/08
2	-92.4	213.7	03/05/08
1	-167.4	213.4	03/05/08

MW 5-13

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	185.8	215.7	03/04/08
2	5.8	215.6	03/04/08
1	-158.2	215.2	03/04/08

MW 5-17

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	199.4	DRY	03/03/08
2	-35.6	213.8	03/03/08
1	-193.6	213.5	03/03/08

MW 5-18

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	-10.6	215.1	02/29/08
2	-140.6	215.0	02/29/08
1	-290.6	214.9	02/29/08

MW 5-11

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	178.6	214.6	03/03/08
2	-41.4	214.4	03/03/08
1	-201.4	214.2	03/03/08

MW 5-24

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	151	210.8	03/03/08
6	1	210.7	03/03/08
5	-159	210.8	03/03/08
4	-309	210.9	03/03/08
3	-454	209.8	03/03/08

MW 5-03

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
10	234.4	DRY	02/29/08
9	169.4	214.3	02/29/08
8	69.4	214.0	02/29/08
7	-40.6	214.2	02/29/08
6	-120.6	214.2	02/29/08
5	-200.6	214.5	02/29/08
4	-340.6	214.2	02/29/08
3	-450.6	214.2	02/29/08

MW 5-08

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	-45.8	208.2	03/04/08
3	-219.8	206.6	03/04/08
2	-335.8	205.7	03/04/08
1	-460.8	205.4	03/04/08

MW 5-25

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	139.8	211.4	03/03/08
6	-0.2	211.4	03/03/08
5	-145.2	211.4	03/03/08
4	-325.2	210.6	03/03/08
3	-450.2	210.6	03/03/08

EPA MW 5-01

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
13	181.7	212.6	03/04/08
12	108.7	212.8	03/04/08
11	62.7	212.8	03/04/08
10	-32.3	212.9	03/04/08
9	-125.3	212.8	03/04/08
8	-242.3	212.8	03/04/08
7	-367.3	212.7	03/04/08
6	-477.3	212.7	03/04/08

MW 5-05

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	119.5	210.5	03/05/08
3	-42.5	209.2	03/05/08
2	-126.5	209.3	03/05/08
1	-214.5	207.4	03/05/08

MW 5-15

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	120	210.2	03/04/08
2	-95	209.8	03/04/08
1	-315	208.5	03/04/08

MW 5-19

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	51.2	208.1	02/28/08
5	-153.8	197.7	02/28/08
4	-338.8	195.8	02/28/08
3	-453.8	195.8	02/28/08

MW 5-20

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	93.6	214.1	02/29/08
6	-86.4	209.7	02/29/08
5	-280.4	202.6	02/29/08
4	-358.4	202.2	02/29/08
3	-446.4	202.0	02/29/08

MW 5-27

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	10.7	208.9	02/29/08
6	-145.3	201.5	02/29/08
5	-283.3	198.9	02/29/08
4	-415.3	198.4	02/29/08

MW 5-23

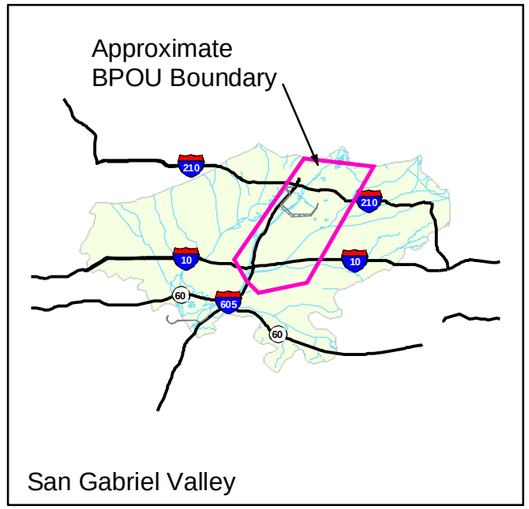
PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	62.4	215.3	02/28/08
5	-123.6	206.3	02/28/08
4	-263.6	204.2	02/28/08
3	-397.6	200.5	02/28/08

MW 5-22

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	56.6	215.6	02/28/08
5	-118.4	206.4	02/28/08
4	-308.4	200.4	02/28/08
3	-402.4	200.2	02/28/08
2	-498.4	200.2	02/28/08

MW 5-26

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	-23.4	203.6	02/28/08
6	-143.4	201.4	02/28/08
5	-273.4	202.7	02/28/08
4	-433.4	200.6	02/28/08



EXPLANATION

- Multiport well
- Monitoring, multiport, or production well (not included in contouring)
- Extraction well (not included in contouring)
- 215 Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet
- Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during February and March 2008 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

5,000 0 5,000
Feet

N

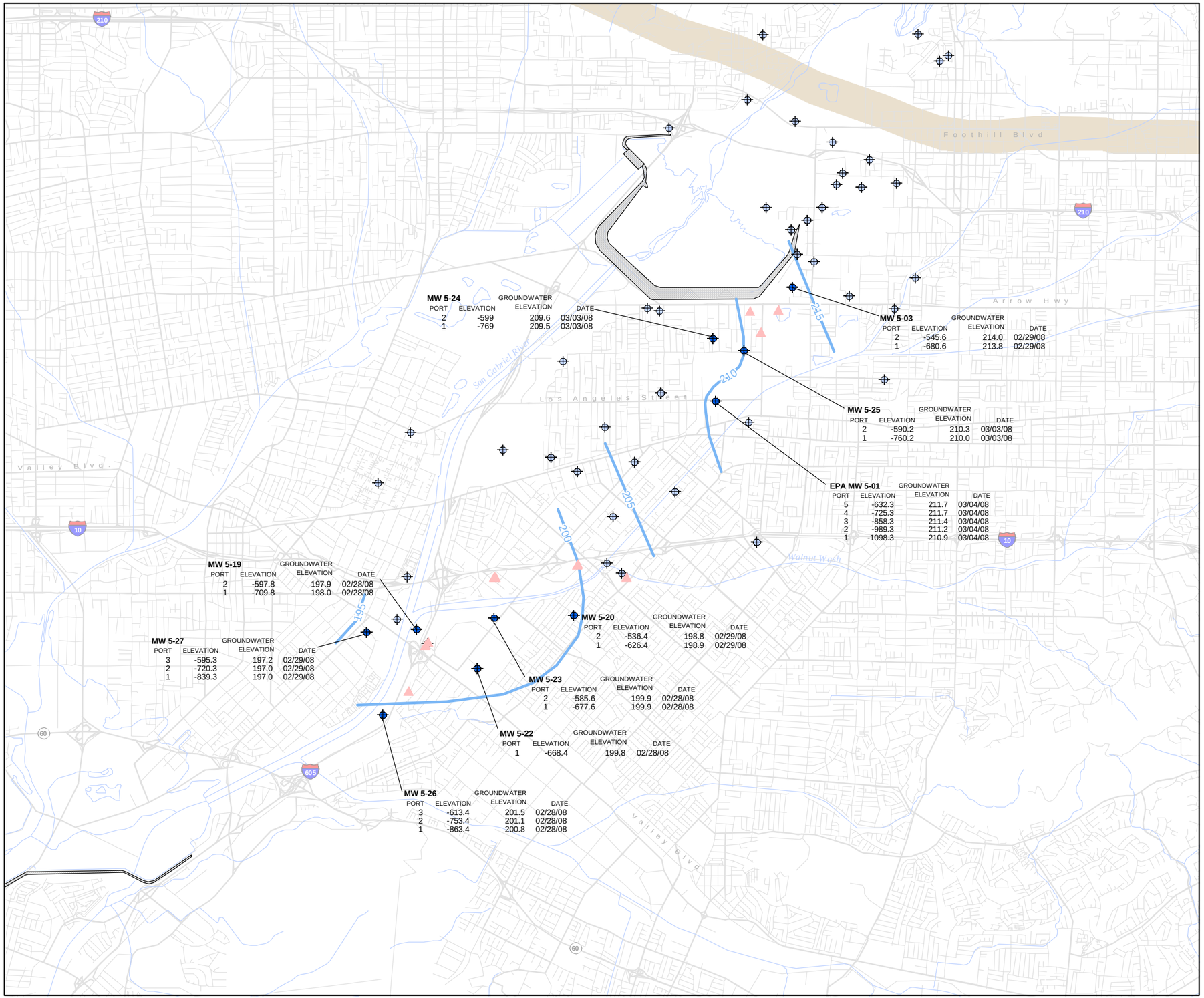
GENERALIZED FEBRUARY-MARCH
POTENTIOMETRIC SURFACE
ABOVE -500 FEET MSL
Baldwin Park Operable Unit
San Gabriel Valley, California

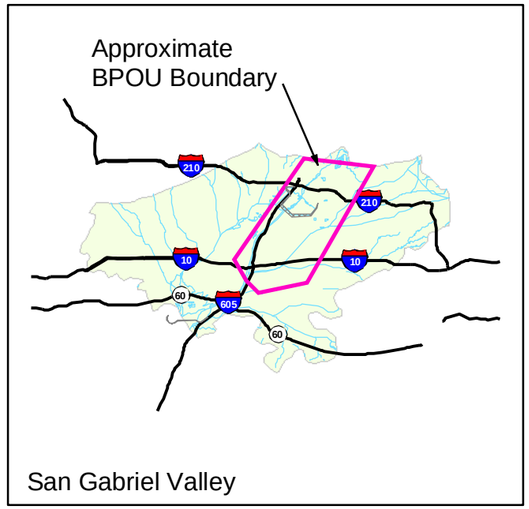
AMEC Geomatrix

Project No. 7190

Figure 5-4

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report-Water Levels\200805-04 FEB-MARCH GW Elevations above -500MSL.mxd





EXPLANATION

- Multiport well
- Monitoring, multiport, or production well (not included in contouring)
- Extraction well (not included in contouring)
- 215 Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet
- Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during February and March 2008 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

5,000 0 5,000
Feet

N

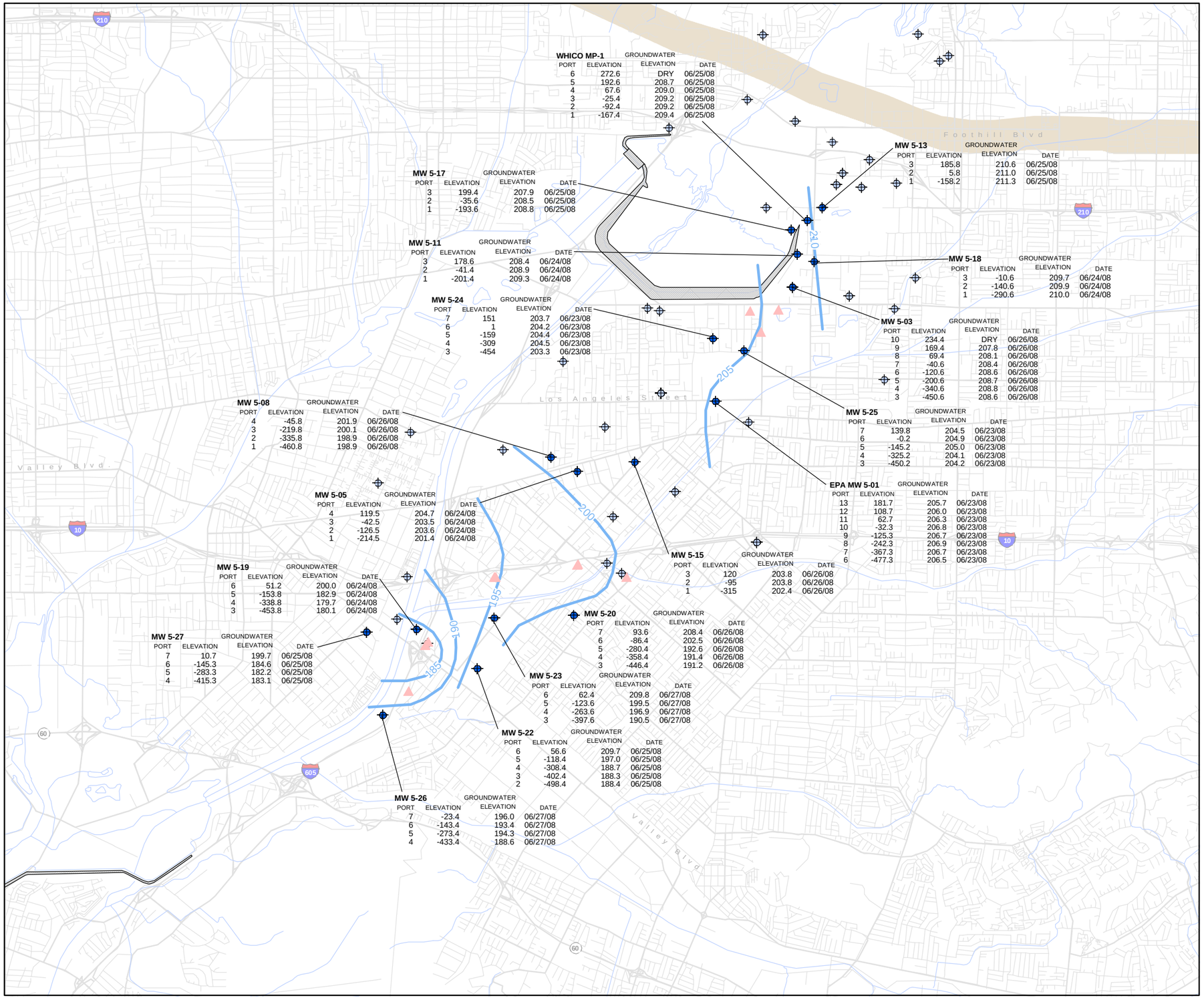
GENERALIZED FEBRUARY-MARCH
POTENTIOMETRIC SURFACE
BELOW -500 FEET MSL
Baldwin Park Operable Unit
San Gabriel Valley, California

AMEC Geomatrix

Project No. 7190

Figure 5-5

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report-Water Levels\2008\5-05 FEB-MARCH GW Elevations below -500MSL.mxd



WHICO MP-1

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	272.6	DRY	06/25/08
5	192.6	208.7	06/25/08
4	67.6	209.0	06/25/08
3	-25.4	209.2	06/25/08
2	-92.4	209.2	06/25/08
1	-167.4	209.4	06/25/08

MW 5-13

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	185.8	210.6	06/25/08
2	5.8	211.0	06/25/08
1	-158.2	211.3	06/25/08

MW 5-17

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	199.4	207.9	06/25/08
2	-35.6	208.5	06/25/08
1	-193.6	208.8	06/25/08

MW 5-11

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	178.6	208.4	06/24/08
2	-41.4	208.9	06/24/08
1	-201.4	209.3	06/24/08

MW 5-18

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	-10.6	209.7	06/24/08
2	-140.6	209.9	06/24/08
1	-290.6	210.0	06/24/08

MW 5-24

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	151	203.7	06/23/08
6	1	204.2	06/23/08
5	-159	204.4	06/23/08
4	-309	204.5	06/23/08
3	-454	203.3	06/23/08

MW 5-03

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
10	234.4	DRY	06/26/08
9	169.4	207.8	06/26/08
8	69.4	208.1	06/26/08
7	-40.6	208.4	06/26/08
6	-120.6	208.6	06/26/08
5	-200.6	208.7	06/26/08
4	-340.6	208.8	06/26/08
3	-450.6	208.6	06/26/08

MW 5-08

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	-45.8	201.9	06/26/08
3	-219.8	200.1	06/26/08
2	-335.8	198.9	06/26/08
1	-460.8	198.9	06/26/08

MW 5-25

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	139.8	204.5	06/23/08
6	-0.2	204.9	06/23/08
5	-145.2	205.0	06/23/08
4	-325.2	204.1	06/23/08
3	-450.2	204.2	06/23/08

EPA MW 5-01

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
13	181.7	205.7	06/23/08
12	108.7	206.0	06/23/08
11	62.7	206.3	06/23/08
10	-32.3	206.8	06/23/08
9	-125.3	206.7	06/23/08
8	-242.3	206.9	06/23/08
7	-367.3	206.7	06/23/08
6	-477.3	206.5	06/23/08

MW 5-05

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
4	119.5	204.7	06/24/08
3	-42.5	203.5	06/24/08
2	-126.5	203.6	06/24/08
1	-214.5	201.4	06/24/08

MW 5-15

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
3	120	203.8	06/26/08
2	-95	203.8	06/26/08
1	-315	202.4	06/26/08

MW 5-19

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	51.2	200.0	06/24/08
5	-153.8	182.9	06/24/08
4	-338.8	179.7	06/24/08
3	-453.8	180.1	06/24/08

MW 5-20

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	93.6	208.4	06/26/08
6	-86.4	202.5	06/26/08
5	-280.4	192.6	06/26/08
4	-358.4	191.4	06/26/08
3	-446.4	191.2	06/26/08

MW 5-27

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	10.7	199.7	06/25/08
6	-145.3	184.6	06/25/08
5	-283.3	182.2	06/25/08
4	-415.3	183.1	06/25/08

MW 5-23

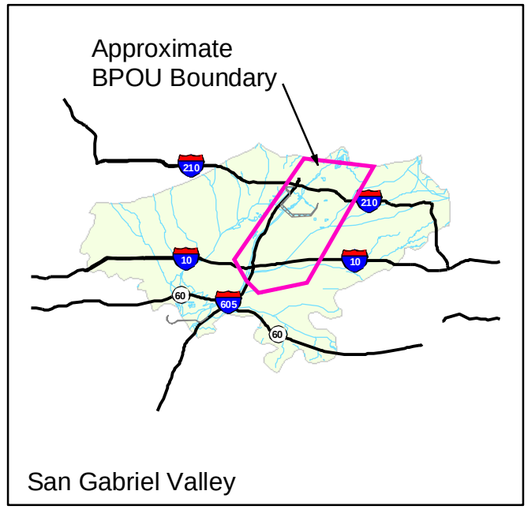
PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	62.4	209.8	06/27/08
5	-123.6	199.5	06/27/08
4	-263.6	196.9	06/27/08
3	-397.6	190.5	06/27/08

MW 5-22

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
6	56.6	209.7	06/25/08
5	-118.4	197.0	06/25/08
4	-308.4	188.7	06/25/08
3	-402.4	188.3	06/25/08
2	-498.4	188.4	06/25/08

MW 5-26

PORT	ELEVATION	GROUNDWATER ELEVATION	DATE
7	-23.4	196.0	06/27/08
6	-143.4	193.4	06/27/08
5	-273.4	194.3	06/27/08
4	-433.4	188.6	06/27/08



EXPLANATION

- Multiport well
- Monitoring, multiport, or production well (not included in contouring)
- Extraction well (not included in contouring)
- 215 Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet
- Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during June 2008 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

5,000 0 5,000
Feet

N

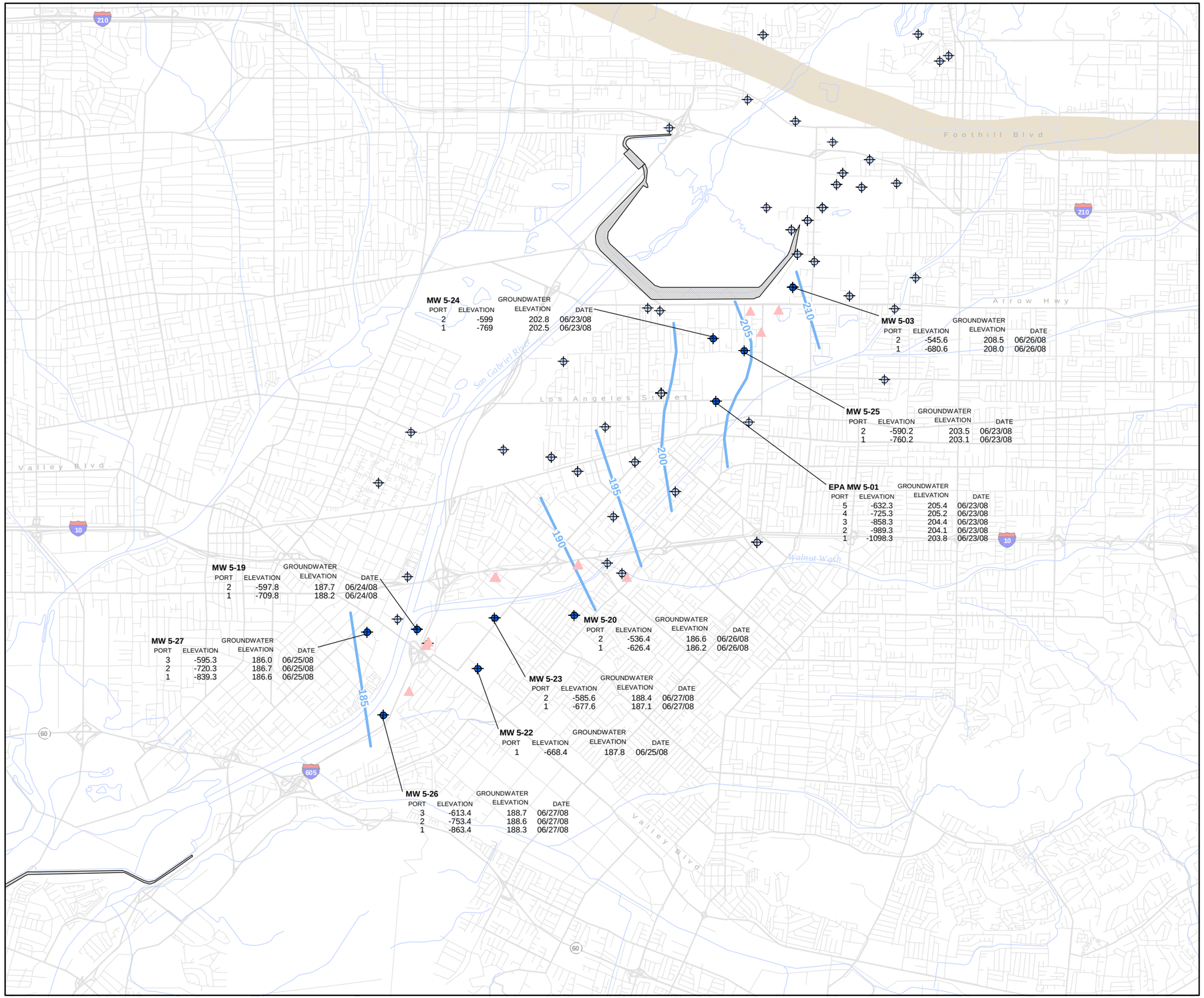
GENERALIZED JUNE POTENTIOMETRIC SURFACE ABOVE -500 FEET MSL
Baldwin Park Operable Unit
San Gabriel Valley, California

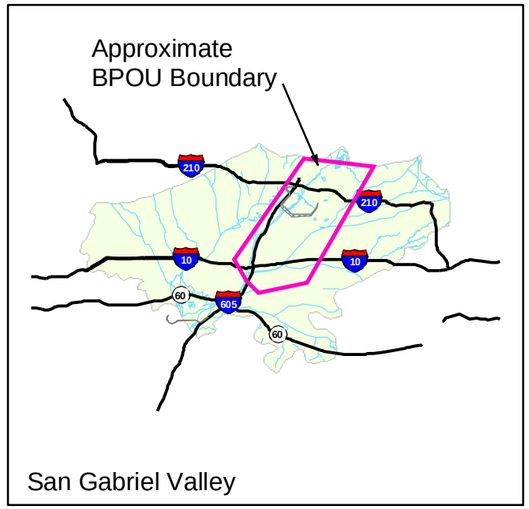
AMEC Geomatrix

Project No. 7190

Figure 5-6

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report-Water Levels\2008\5-06 JUNE GW Elevations above -500MSL.mxd





EXPLANATION

- Multiport well
- Monitoring, multiport, or production well (not included in contouring)
- Extraction well (not included in contouring)
- 215 Potentiometric surface contour (elevation in feet above mean sea level) Contour interval 5 feet
- Duarte Fault Zone

NOTES:

1. The potentiometric contours shown represent interpreted groundwater elevations based on water levels measured in the wells during June 2008 as part of the Performance Standards Evaluation Plan. The interpreted contours should not be assumed to represent the precise groundwater elevation at any point along the contour line.

5,000 0 5,000
Feet

N

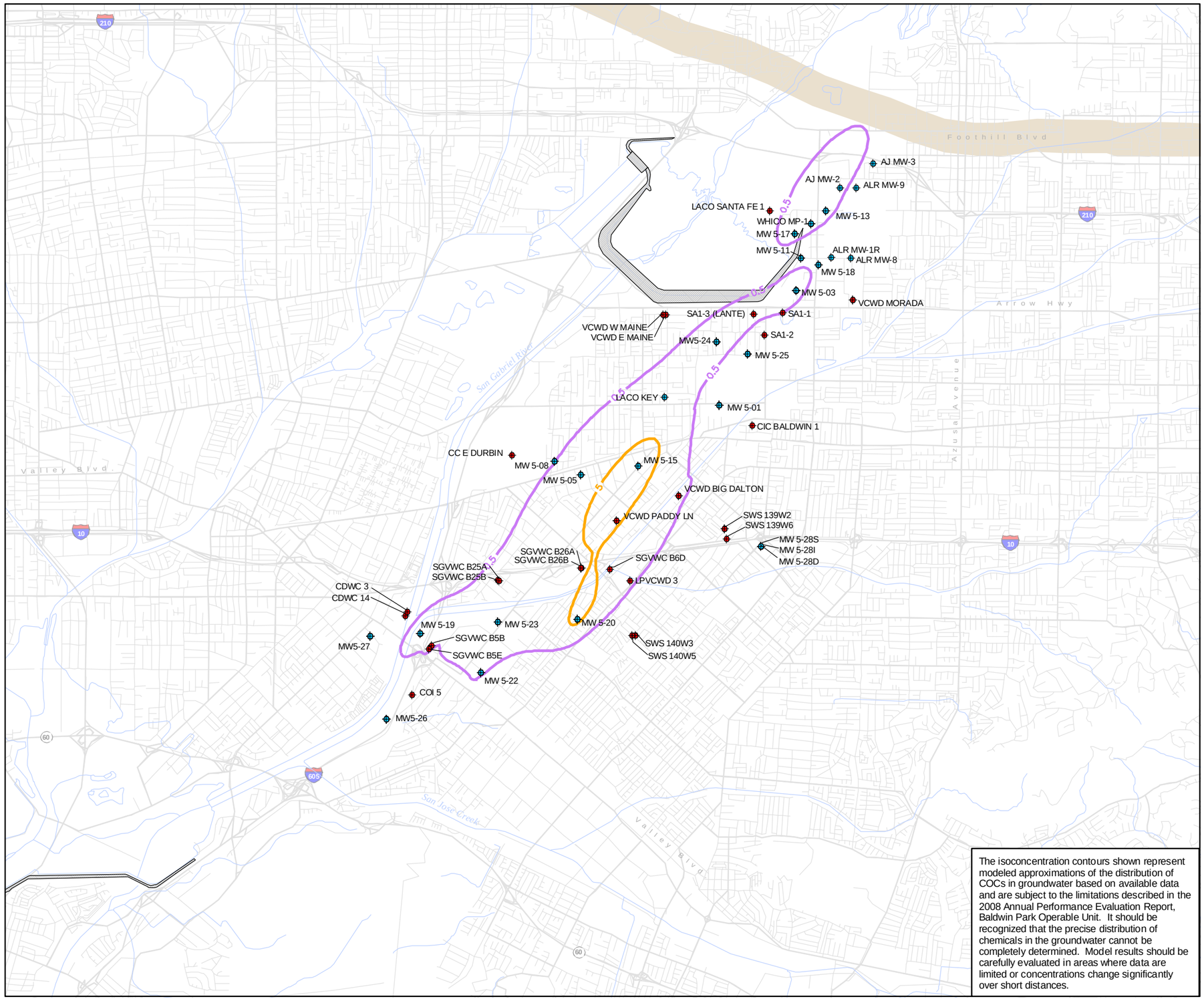
GENERALIZED JUNE POTENTIOMETRIC SURFACE BELOW -500 FEET MSL
Baldwin Park Operable Unit
San Gabriel Valley, California

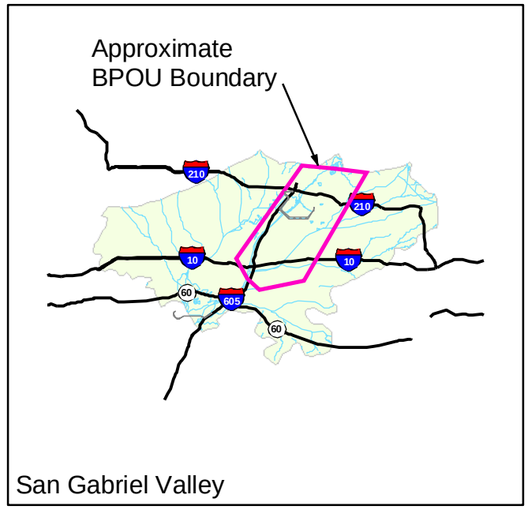
AMEC Geomatrix

Project No. 7190

Figure 5-7

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report-Water Levels\20085-07 JUNE GW Elevations below -500MSL.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- 1,2-Dichloroethane isoconcentration contour (0.5 ug/L)
- 1,2-Dichloroethane isoconcentration contour (5 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

N

5,500 0 5,500

SCALE IN FEET

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

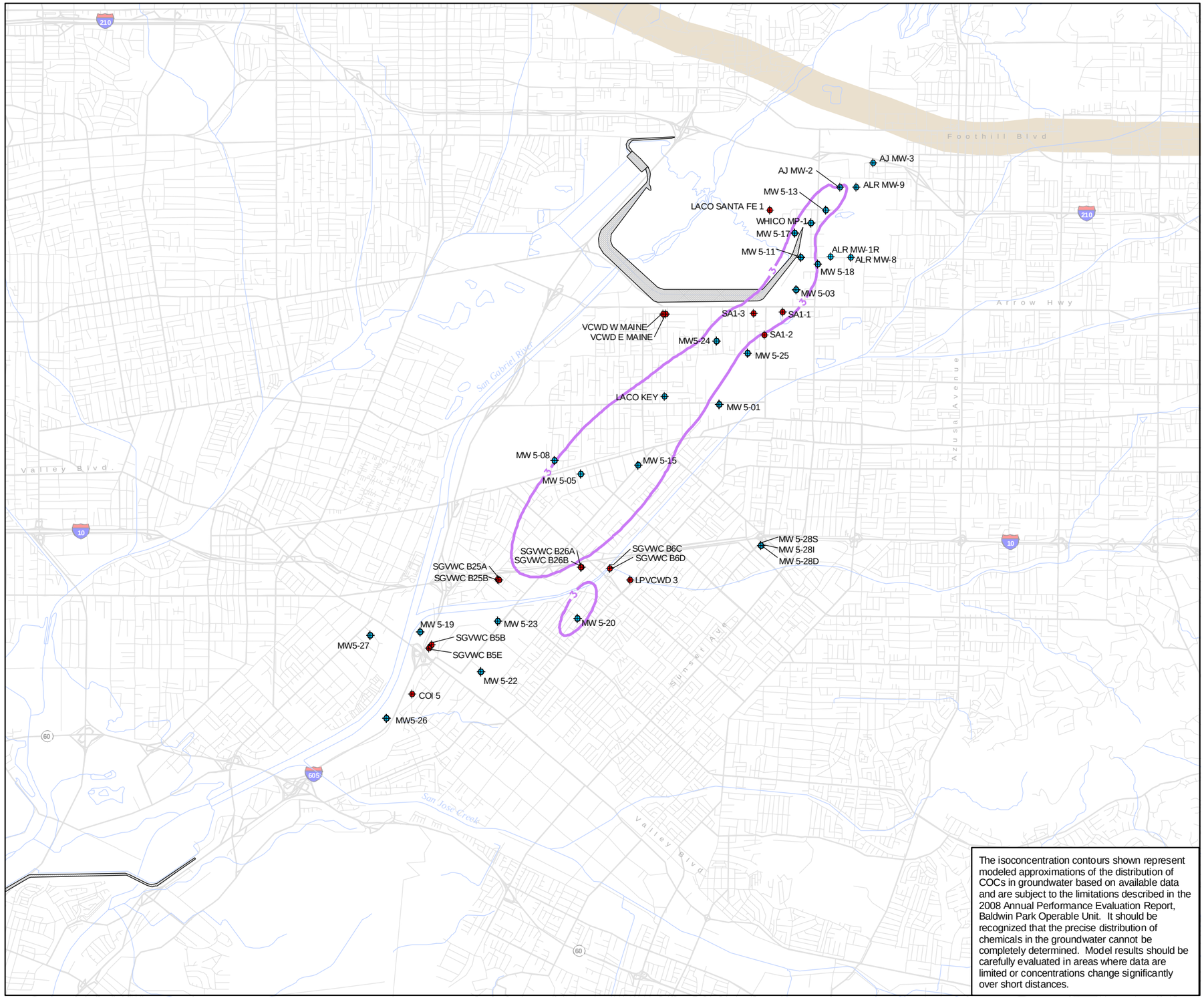
GENERALIZED DISTRIBUTION OF
1,2-DICHLOROETHANE
IN GROUNDWATER, 2008
Baldwin Park Operable Unit
San Gabriel Valley, California

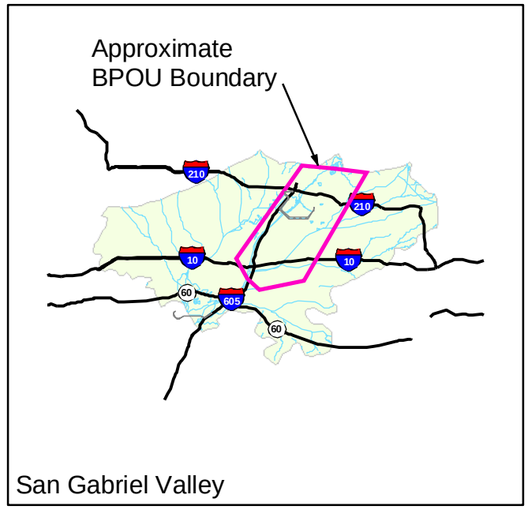
AMEC Geomatrix

Project No. 7190

Figure 5-8

\\DEN1-FS1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Generalized C Distributions\2008\5-08_Gen_Dist_12DCA.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- 1,4-Dioxane isoconcentration contour (3 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,500 0 5,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

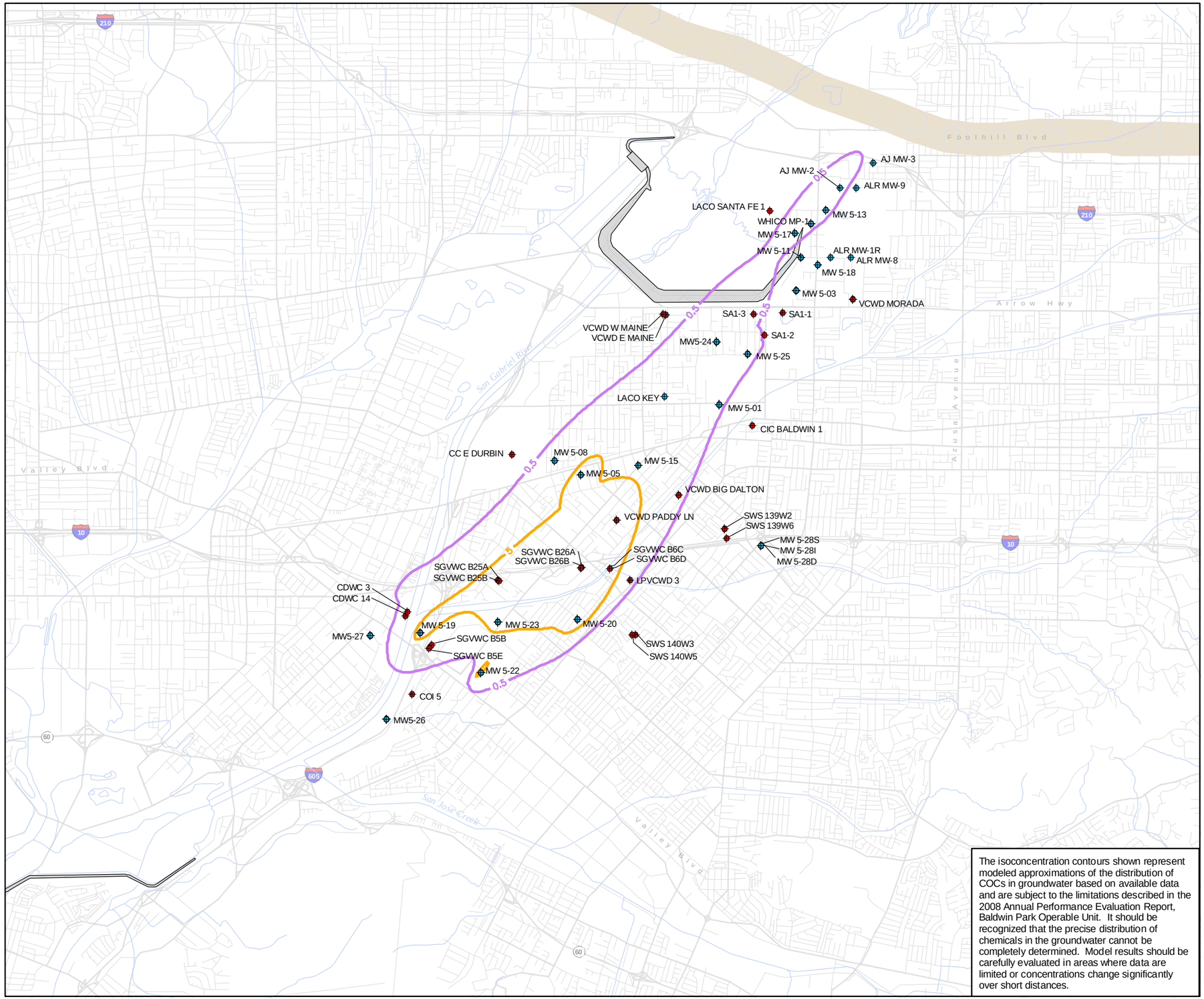
GENERALIZED DISTRIBUTION OF
1,4-DIOXANE
IN GROUNDWATER, 2008
Baldwin Park Operable Unit
San Gabriel Valley, California

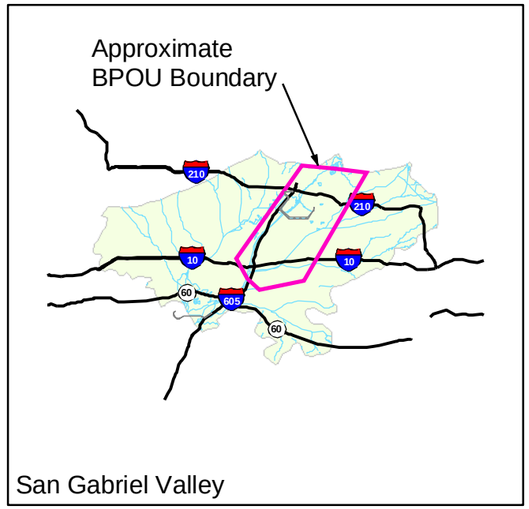
AMEC Geomatrix

Project No. 7190

Figure **5-9**

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual Report Generalized C Distributions\20085-09_Gen_Dist_14Dioxane.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Carbon tetrachloride isoconcentration contour (0.5 ug/L)
- Carbon tetrachloride isoconcentration contour (5 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

N

5,500 0 5,500

SCALE IN FEET

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF CARBON TETRACHLORIDE IN GROUNDWATER, 2008

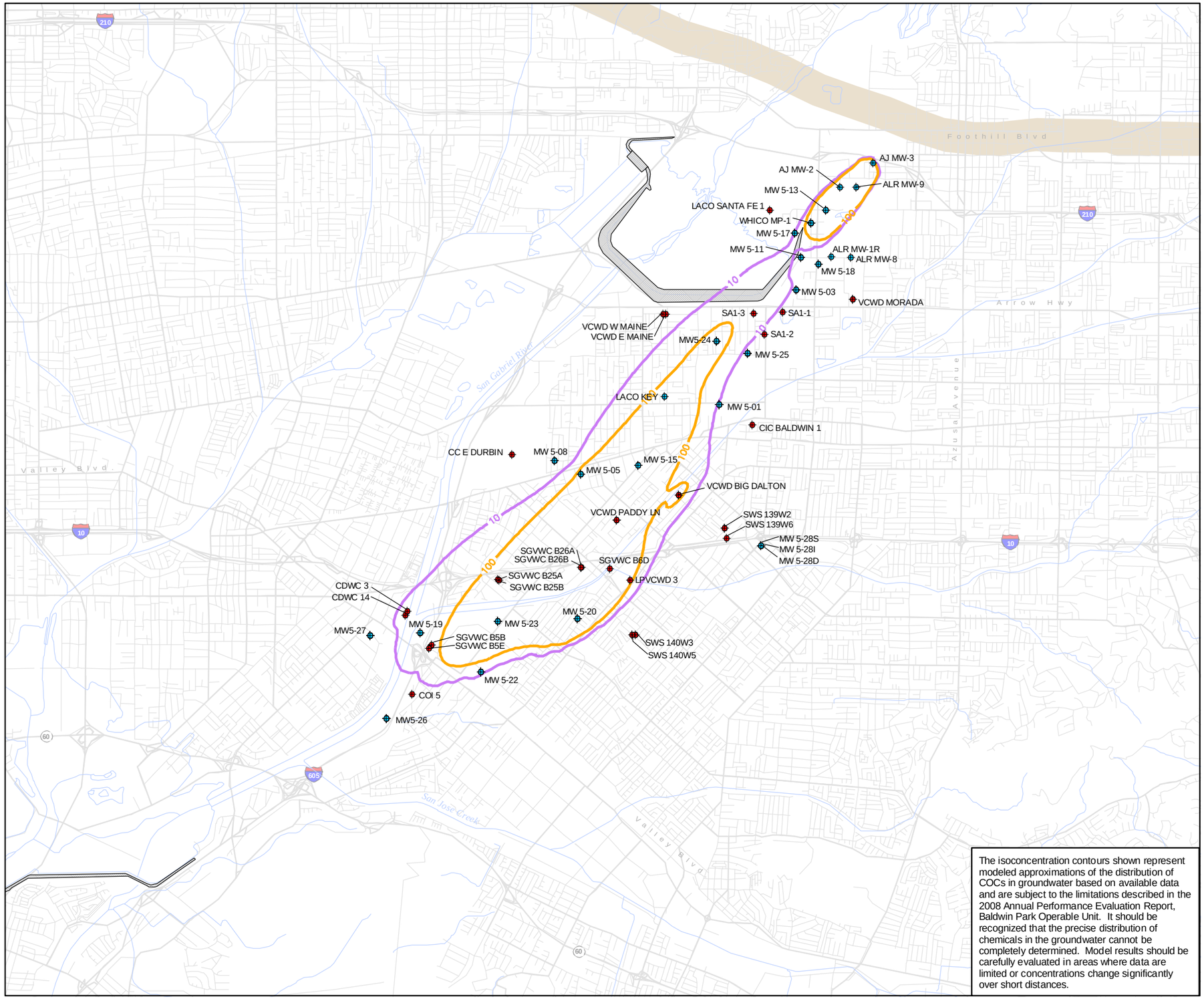
Baldwin Park Operable Unit
San Gabriel Valley, California

AMEC Geomatrix

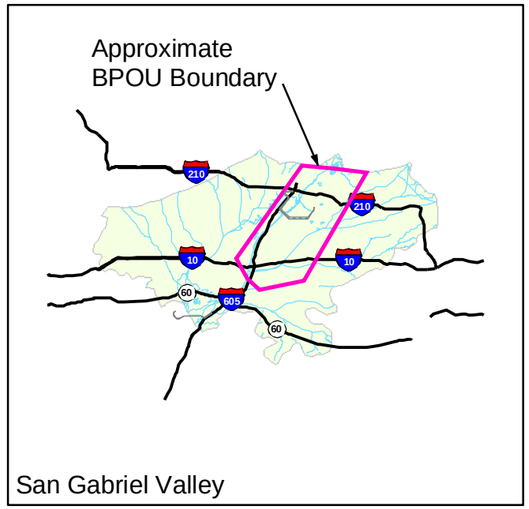
Project No. 7190

Figure 5-10

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual Report Generalized C Distributions\20085-10_Gen_Dist_CTC.mxd



The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.



EXPLANATION

- Production well
- Monitoring or multiport well
- N-Nitrosodimethylamine isoconcentration contour (10 ng/L)
- N-Nitrosodimethylamine isoconcentration contour (100 ng/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,500 0 5,500

SCALE IN FEET

N

GENERALIZED DISTRIBUTION OF
N-NITROSODIMETHYLAMINE
IN GROUNDWATER, 2008

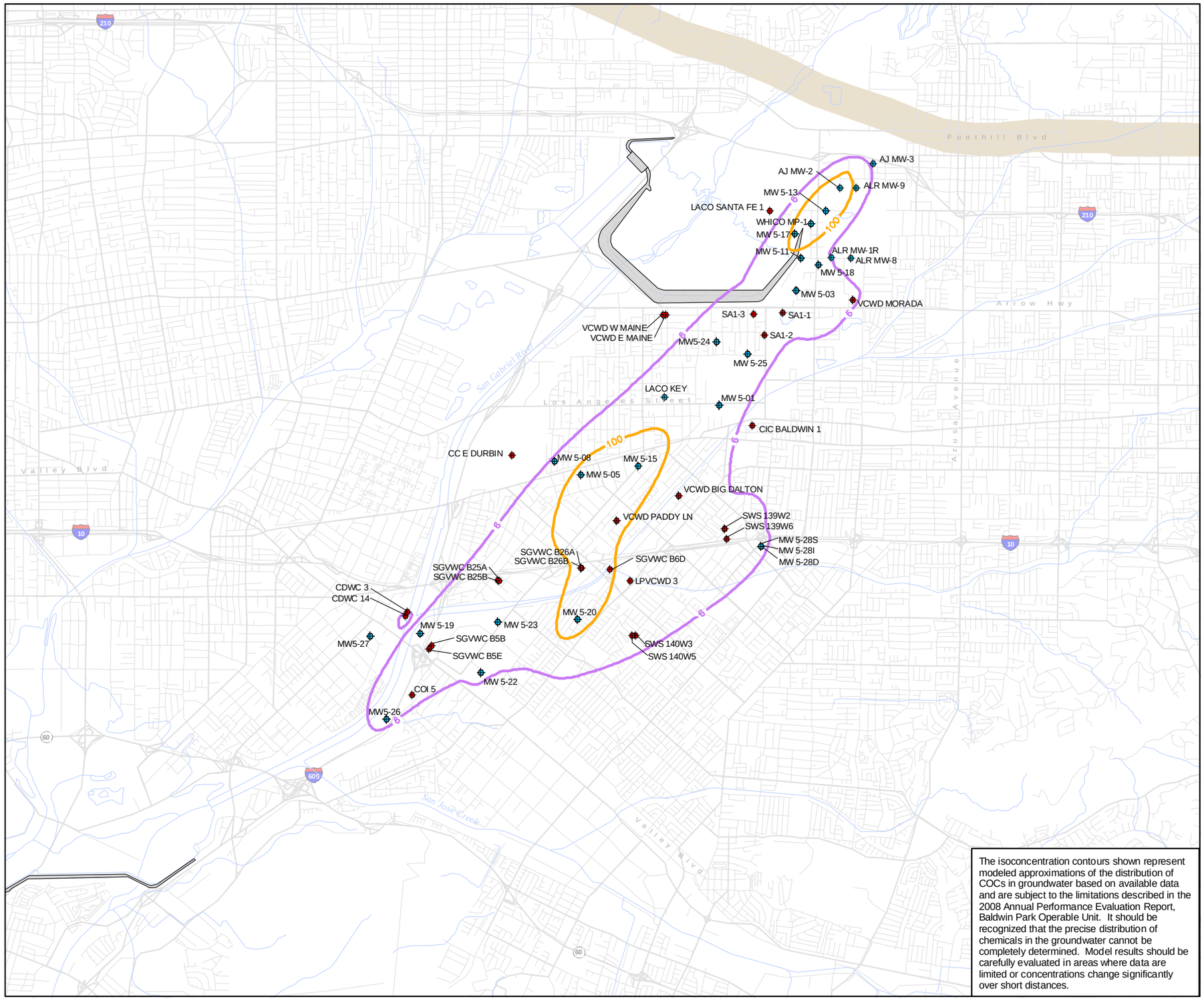
Baldwin Park Operable Unit
San Gabriel Valley, California

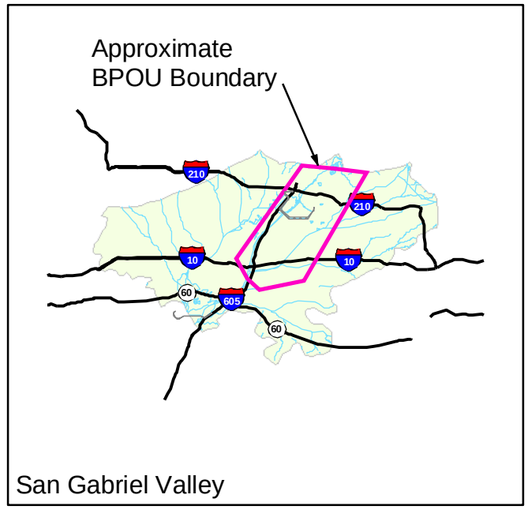
AMEC Geomatrix

Project No. 7190

Figure **5-11**

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual Report Generalized C Distributions\20085-11_Gen_Dist_NDMA.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Perchlorate isoconcentration contour (6 ug/L)
- Perchlorate isoconcentration contour (100 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,500 0 5,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF PERCHLORATE IN GROUNDWATER, 2008

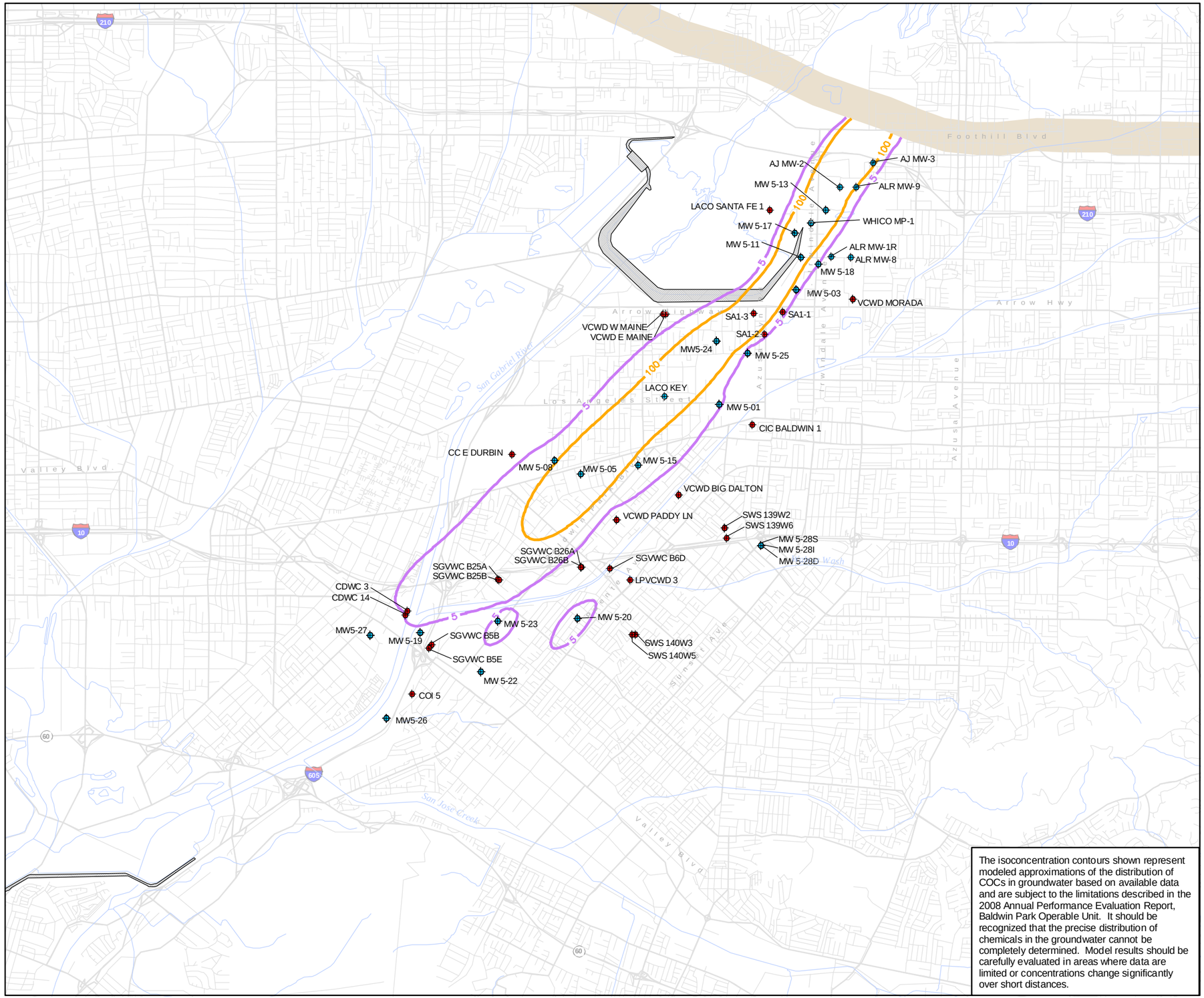
Baldwin Park Operable Unit
San Gabriel Valley, California

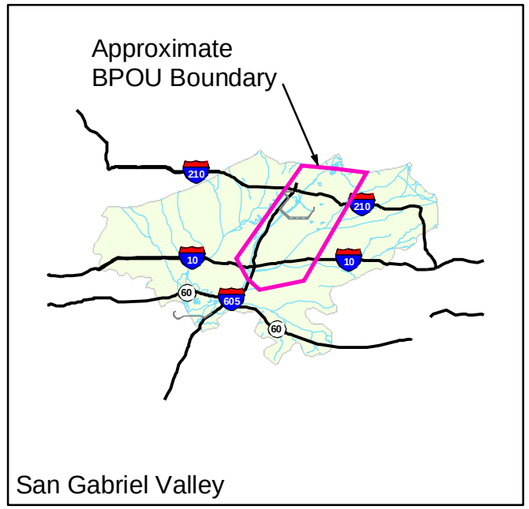
AMEC Geomatrix

Project No. 7190

Figure 5-12

\\DEN1-FS1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Generalized C Distributions\20085-12_Gen_Dist_Perchlorate.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Tetrachloroethene isoconcentration contour (5 ug/L)
- Tetrachloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

N

5,500 0 5,500

SCALE IN FEET

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF TETRACHLOROETHENE IN GROUNDWATER, 2008

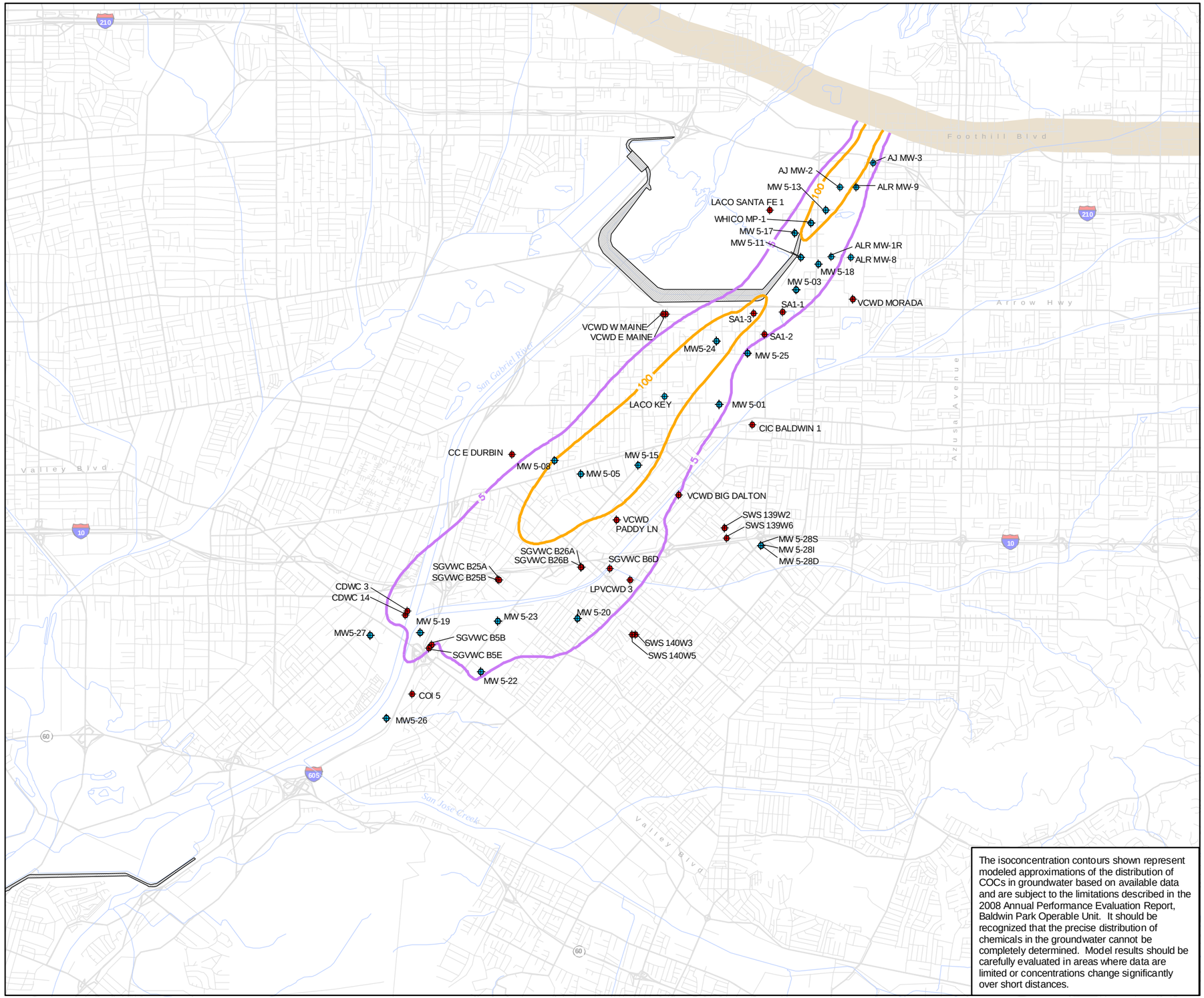
Baldwin Park Operable Unit
San Gabriel Valley, California

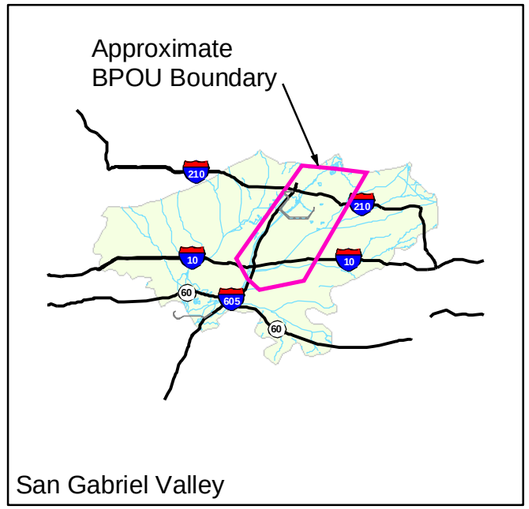
AMEC Geomatrix

Project No. 7190

Figure 5-13

\\DEN1-FS1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Generalized C Distributions\2008\5-13_Gen_Dist_PCE.mxd





EXPLANATION

- Production well
- Monitoring or multiport well
- Trichloroethene isoconcentration contour (5 ug/L)
- Trichloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. The isoconcentration contours represent the extimated maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision®.

5,500 0 5,500

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

GENERALIZED DISTRIBUTION OF TRICHLOROETHENE IN GROUNDWATER, 2008

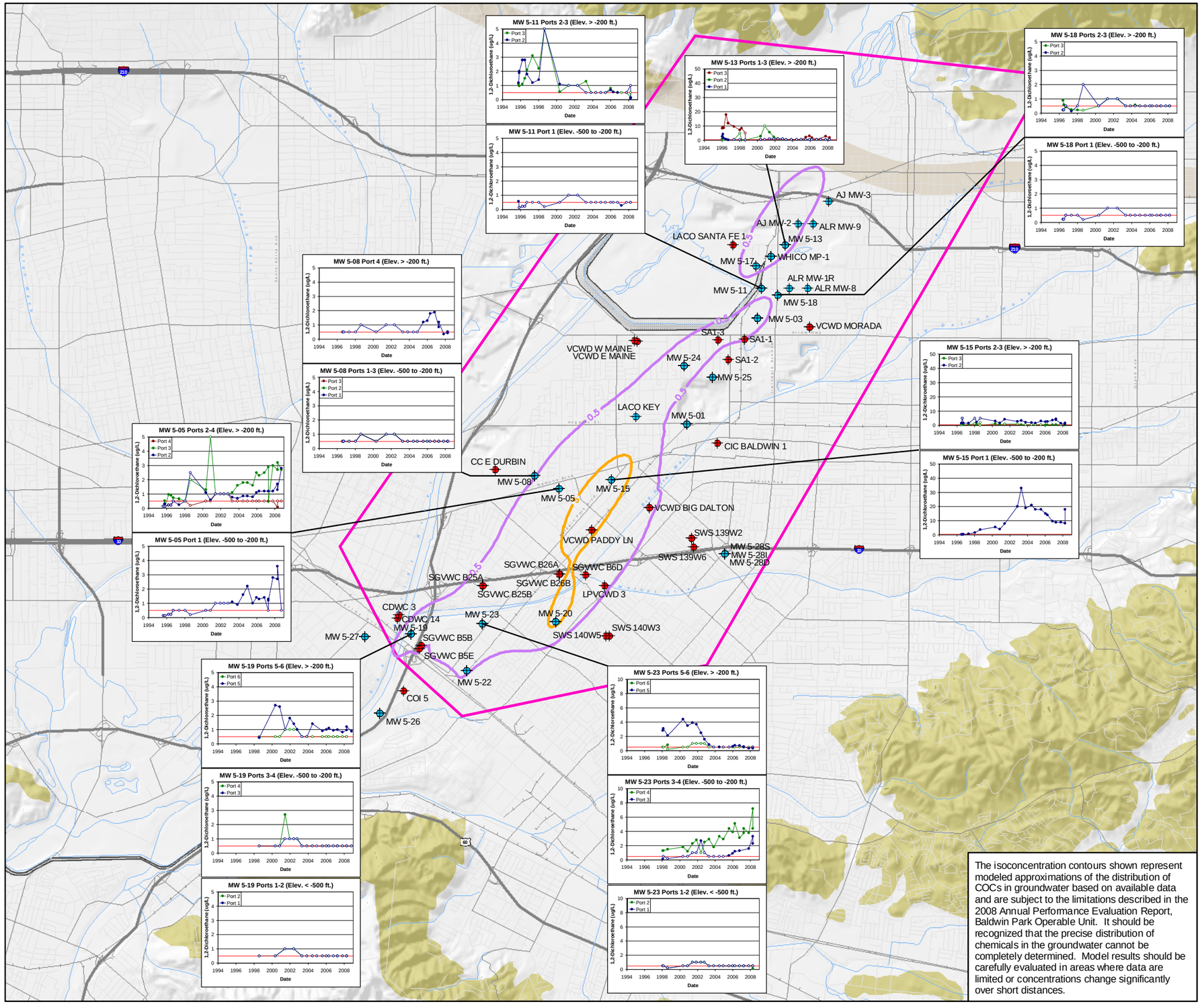
Baldwin Park Operable Unit
San Gabriel Valley, California

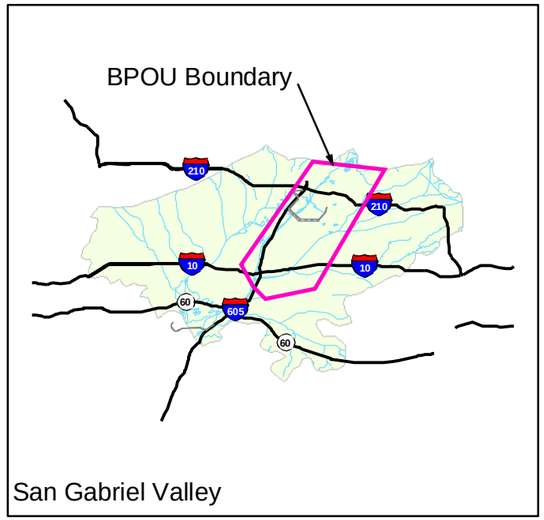
AMEC Geomatrix

Project No. 7190

Figure 5-14

\\DEN1-FS1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Generalized C Distributions\20085-14_Gen_Dist_TCE.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- 1,2-Dichloroethane isoconcentration contour (0.5 ug/L)
- 1,2-Dichloroethane isoconcentration contour (5 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR 1,2-DICHLOROETHANE IN GROUNDWATER, 2008

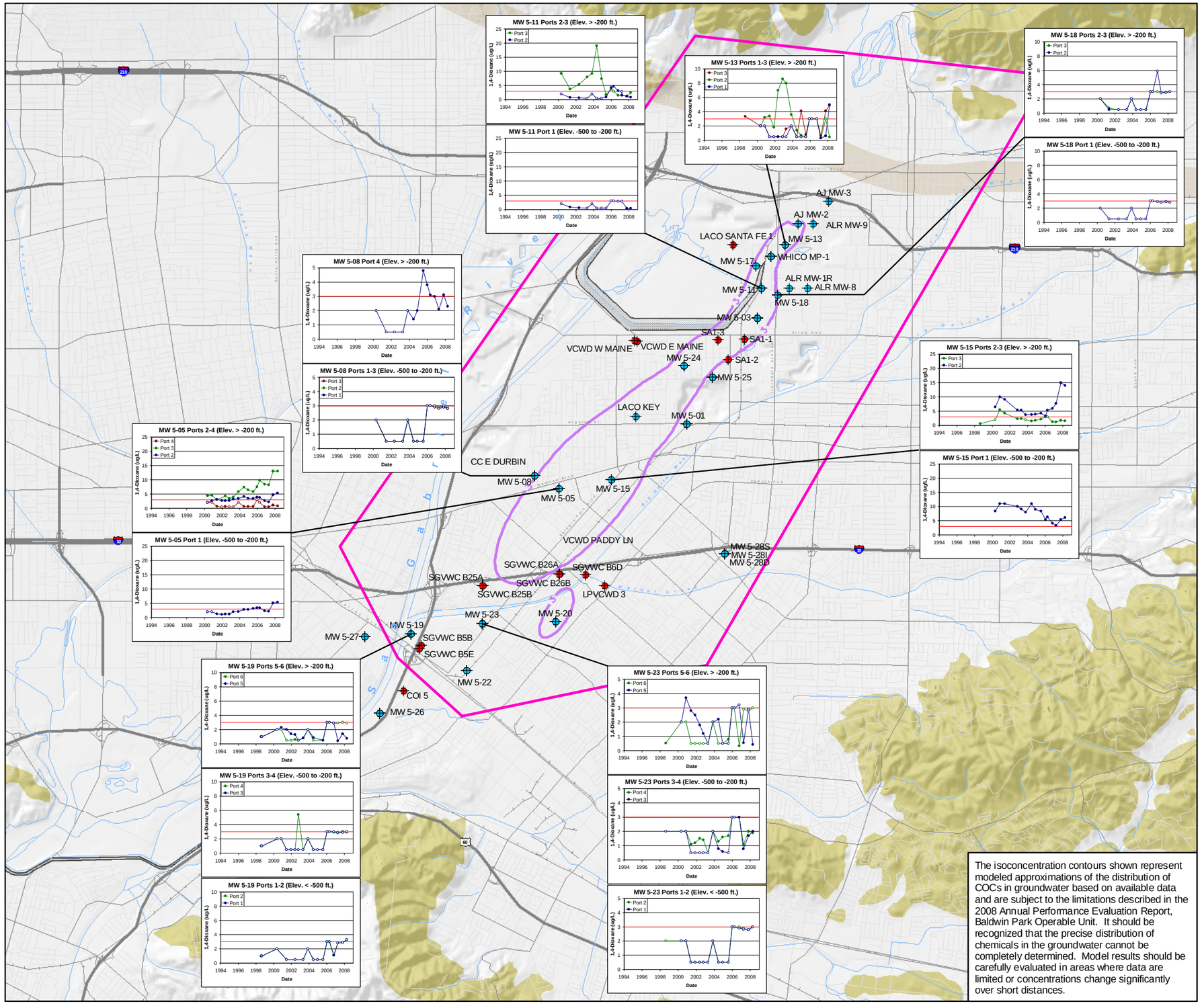
Baldwin Park Operable Unit
San Gabriel Valley, California

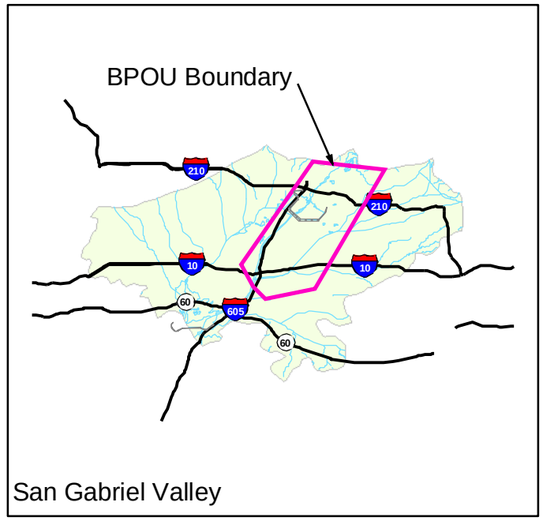
AMEC Geomatrix

Project No. 7190

Figure 5-15

\\DENI-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report TvsC\2008\5-15 12-DCA TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- 1,4-Dioxane isoconcentration contour (3 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the NL of 3 ug/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR 1,4-DIOXANE IN GROUNDWATER, 2008

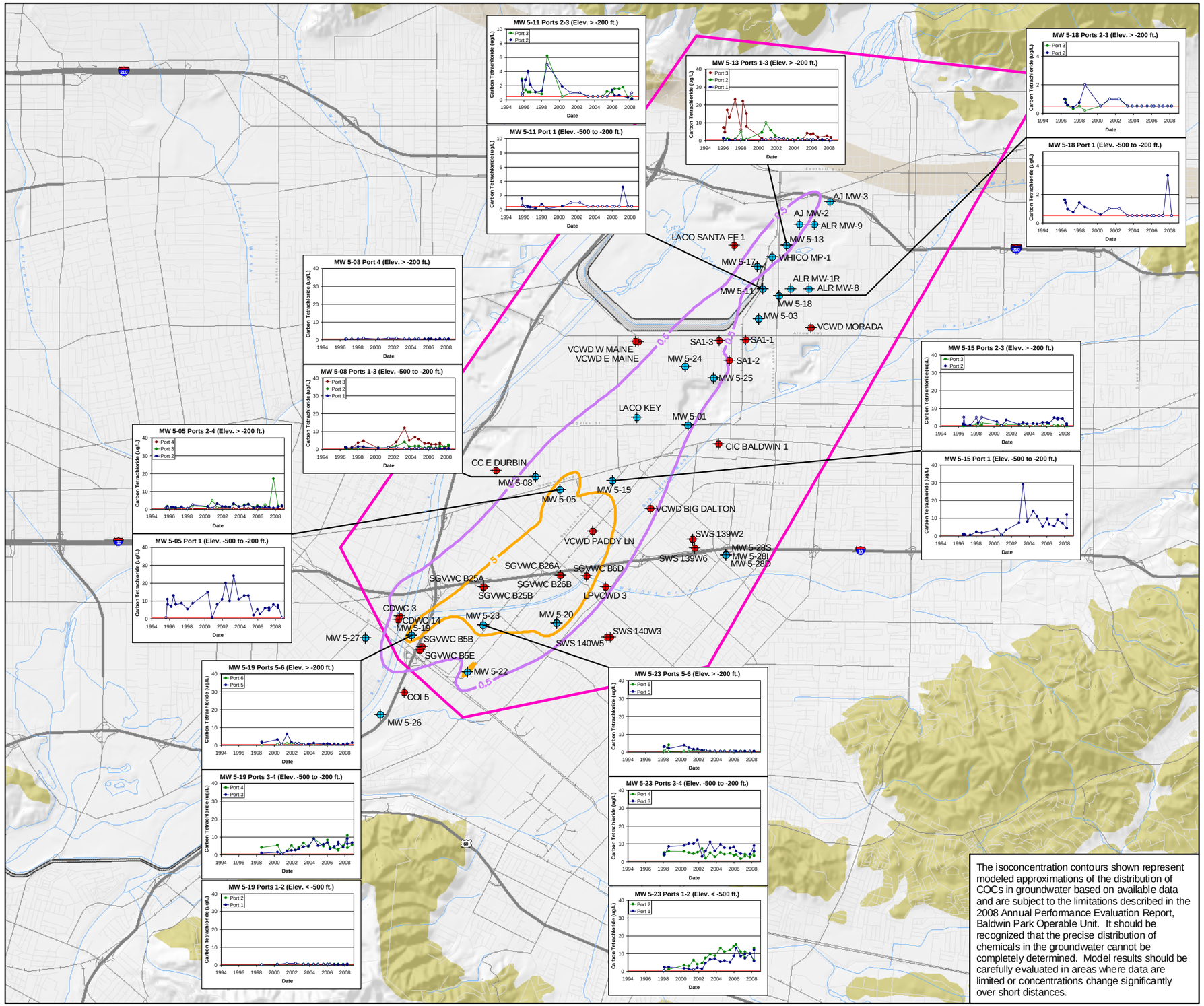
Baldwin Park Operable Unit
San Gabriel Valley, California

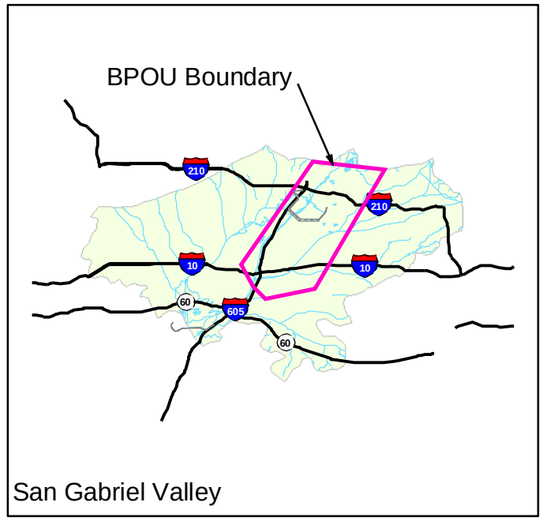
AMEC Geomatrix

Project No. 7190

Figure 5-16

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report TvsC\2008\5-16 14-DIOX TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Carbon tetrachloride isoconcentration contour (0.5 ug/L)
- Carbon tetrachloride isoconcentration contour (5 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 0.5 ug/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR CARBON TETRACHLORIDE IN GROUNDWATER, 2008

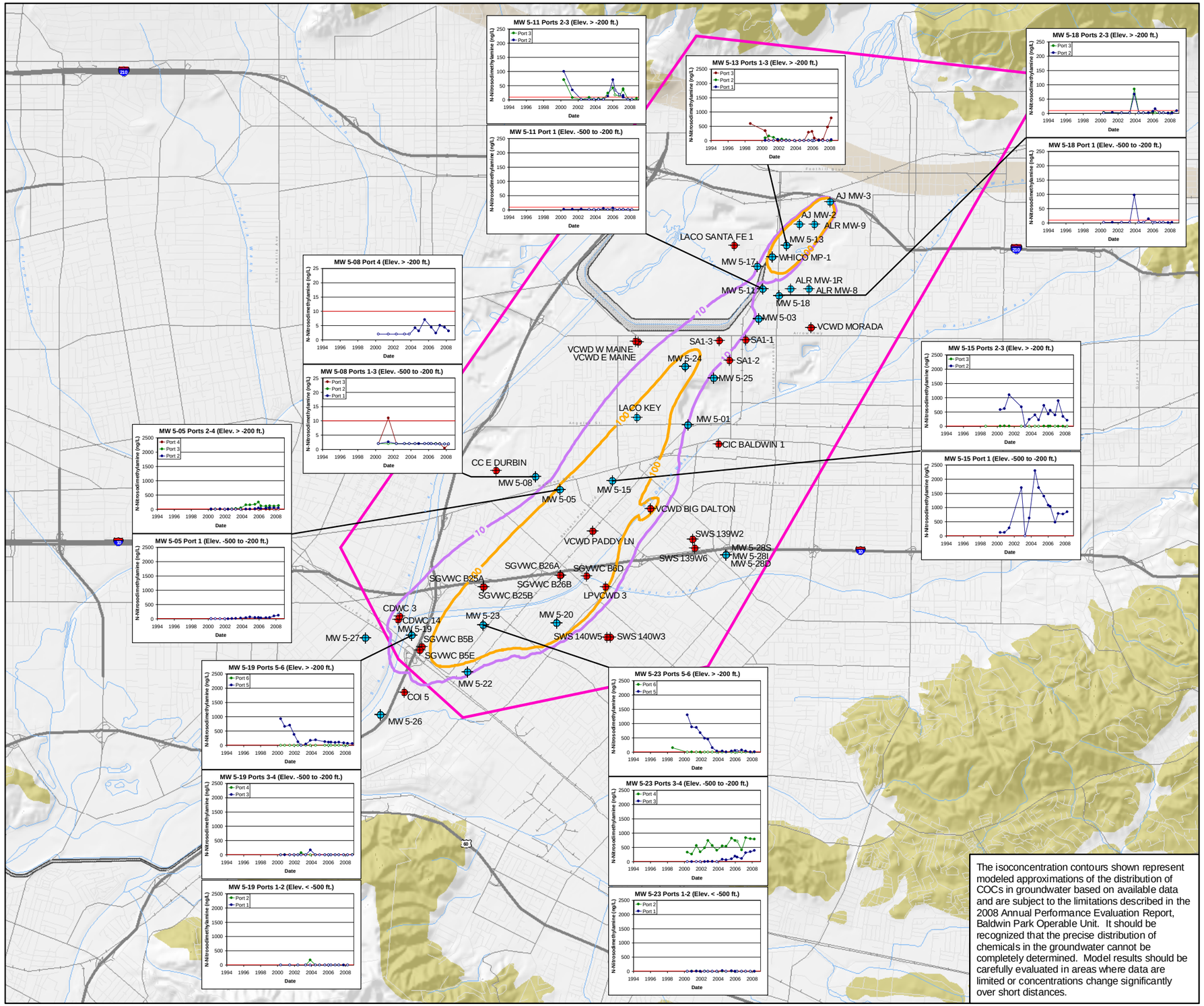
Baldwin Park Operable Unit
San Gabriel Valley, California

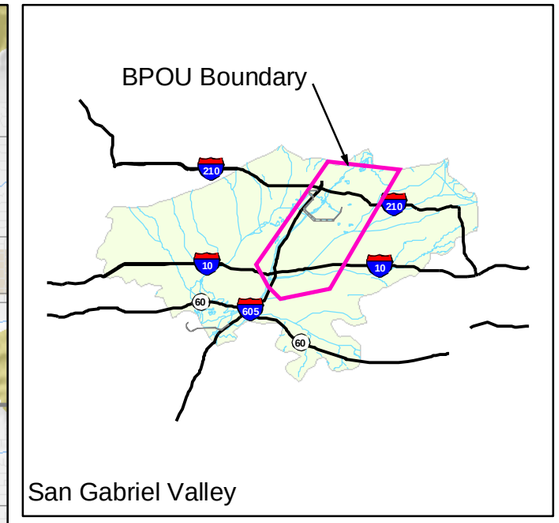
AMEC Geomatrix

Project No. 7190

Figure 5-17

\\DEN1-FS1\GIS\Projects\Aerojet_7190\GIS_maps\Annual Report Tvs\C120815-17_CTC_TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- N-nitrosodimethylamine isoconcentration contour (10 ng/L)
- N-nitrosodimethylamine isoconcentration contour (100 ng/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the NL of 10 ng/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR N-NITROSODIMETHYLAMINE IN GROUNDWATER, 2008

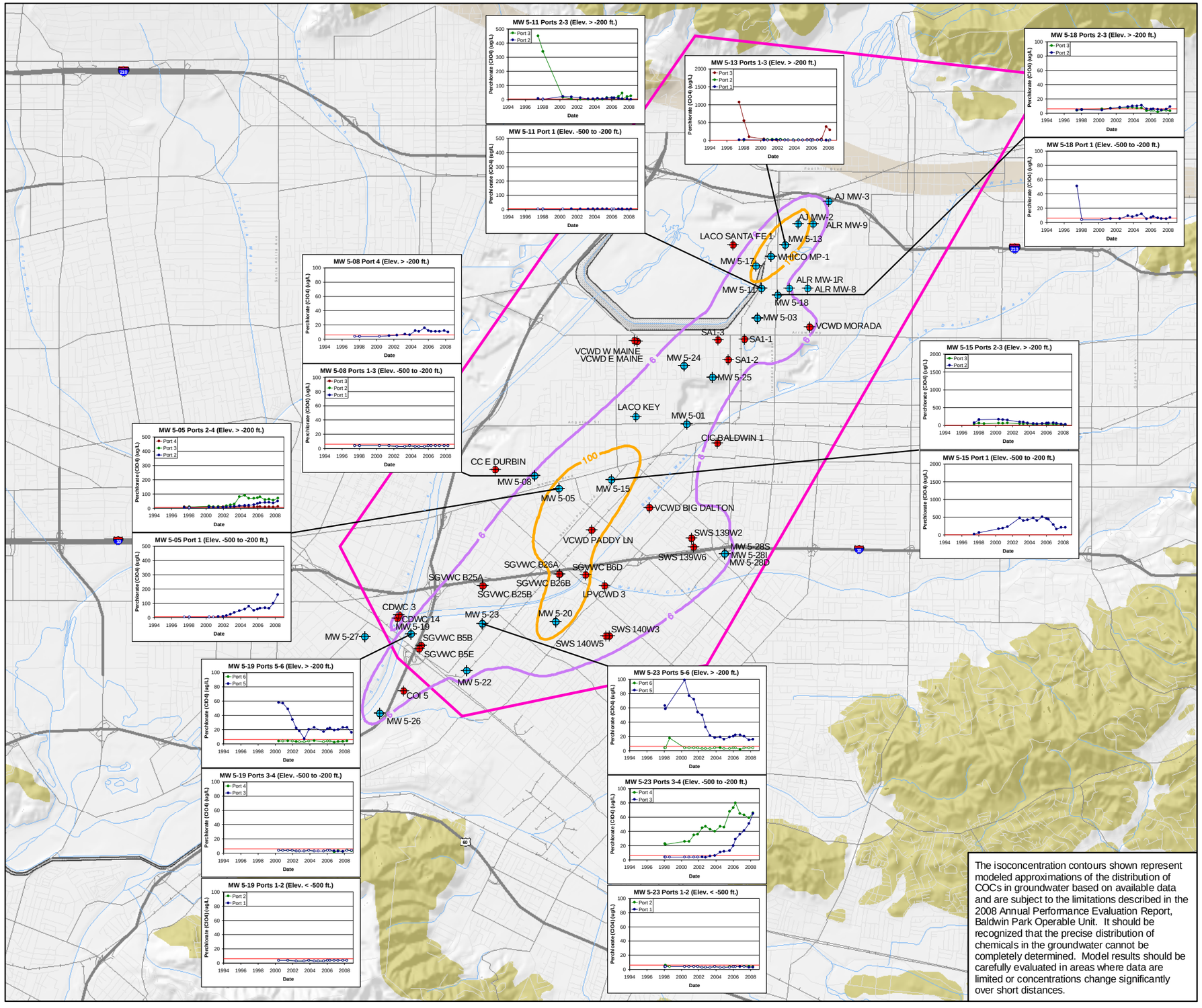
Baldwin Park Operable Unit
San Gabriel Valley, California

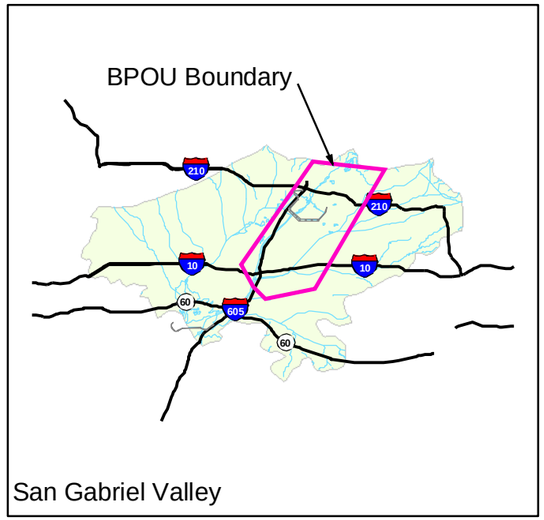
AMEC Geomatrix

Project No. 7190

Figure 5-18

\\DEN1-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report TvsC\20085-18 NDMA TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Perchlorate isoconcentration contour (6 ug/L)
- Perchlorate isoconcentration contour (100 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 6 ug/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR PERCHLORATE IN GROUNDWATER, 2008

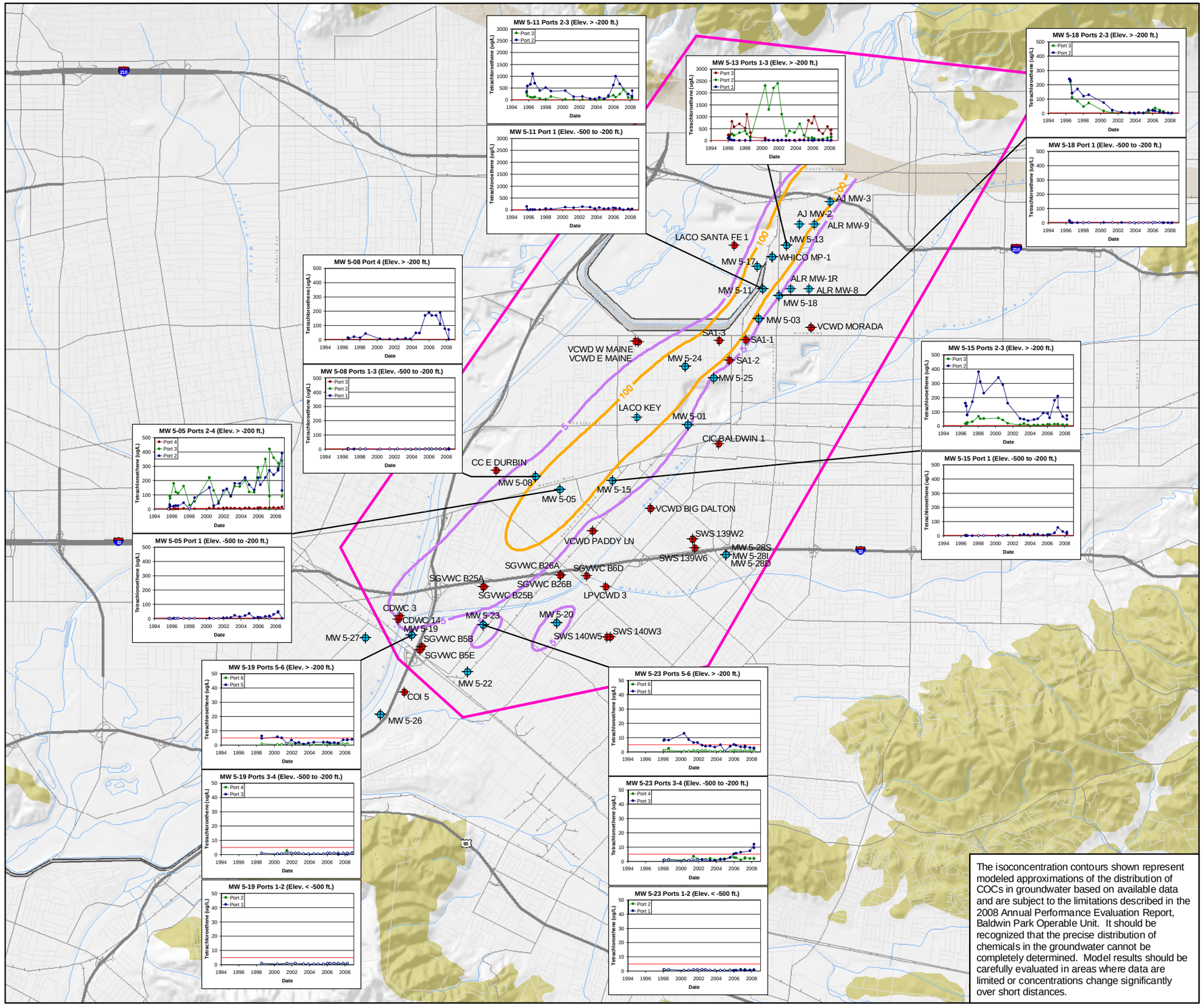
Baldwin Park Operable Unit
San Gabriel Valley, California

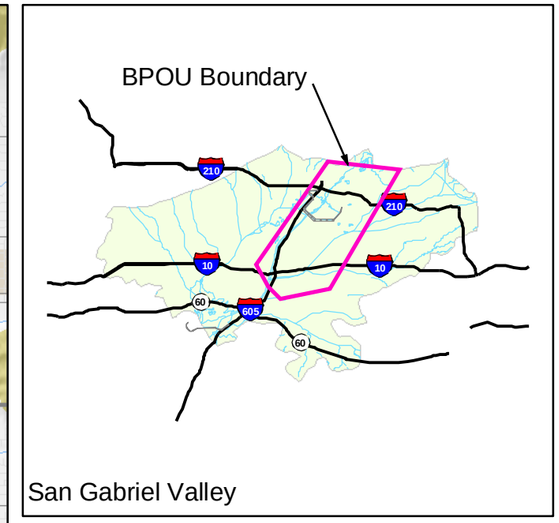
AMEC Geomatrix

Project No. 7190

Figure 5-19

\\DENI-FS1\GIS\Projects\Aerojet 7190\GIS maps\Annual Report TvsC\2008\5-19 Perchlorate TvC.mxd





Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Tetrachloroethene isoconcentration contour (5 ug/L)
- Tetrachloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 5 ug/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

N

The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.

TIME-CONCENTRATION TRENDS FOR TETRACHLOROETHENE IN GROUNDWATER, 2008

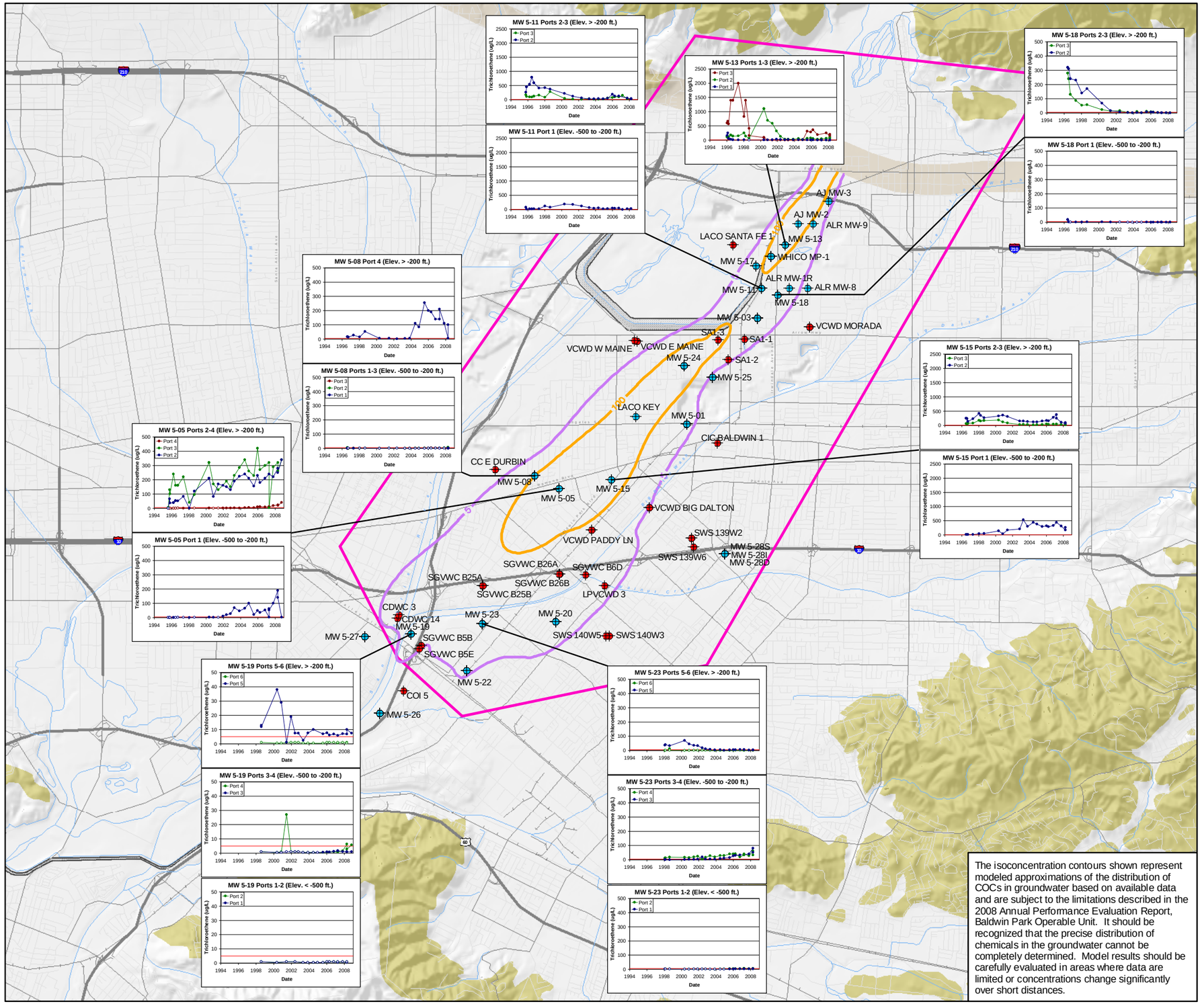
Baldwin Park Operable Unit
San Gabriel Valley, California

AMEC Geomatrix

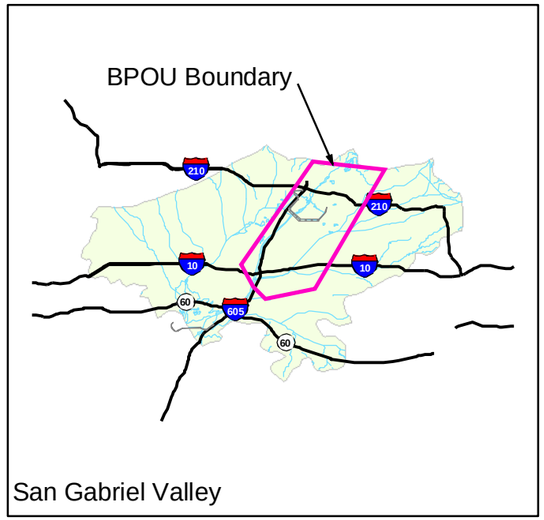
Project No. 7190

Figure 5-20

\\DENI-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual Report Tvs\C\2008\5-20_PCE_TVC.mxd



The isoconcentration contours shown represent modeled approximations of the distribution of COCs in groundwater based on available data and are subject to the limitations described in the 2008 Annual Performance Evaluation Report, Baldwin Park Operable Unit. It should be recognized that the precise distribution of chemicals in the groundwater cannot be completely determined. Model results should be carefully evaluated in areas where data are limited or concentrations change significantly over short distances.



Explanation

- Extraction or Production Well
- Monitoring or Multiport Well
- BPOU Boundary
- Trichloroethene isoconcentration contour (5 ug/L)
- Trichloroethene isoconcentration contour (100 ug/L)
- Duarte Fault Zone

Horizontal red line on each graph represents the MCL of 5 ug/L

NOTES:

1. Data from the period modeled were used to create a three-dimensional isoconcentration shell of the contaminant. This map represents the maximum extent of contours of equal concentration at all elevations.
2. The isoconcentration contours were generated using the three-dimensional geospatial modeling software, EarthVision.

5,000 0 5,000

SCALE IN FEET

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TIME-CONCENTRATION TRENDS FOR TRICHLOROETHENE IN GROUNDWATER, 2008

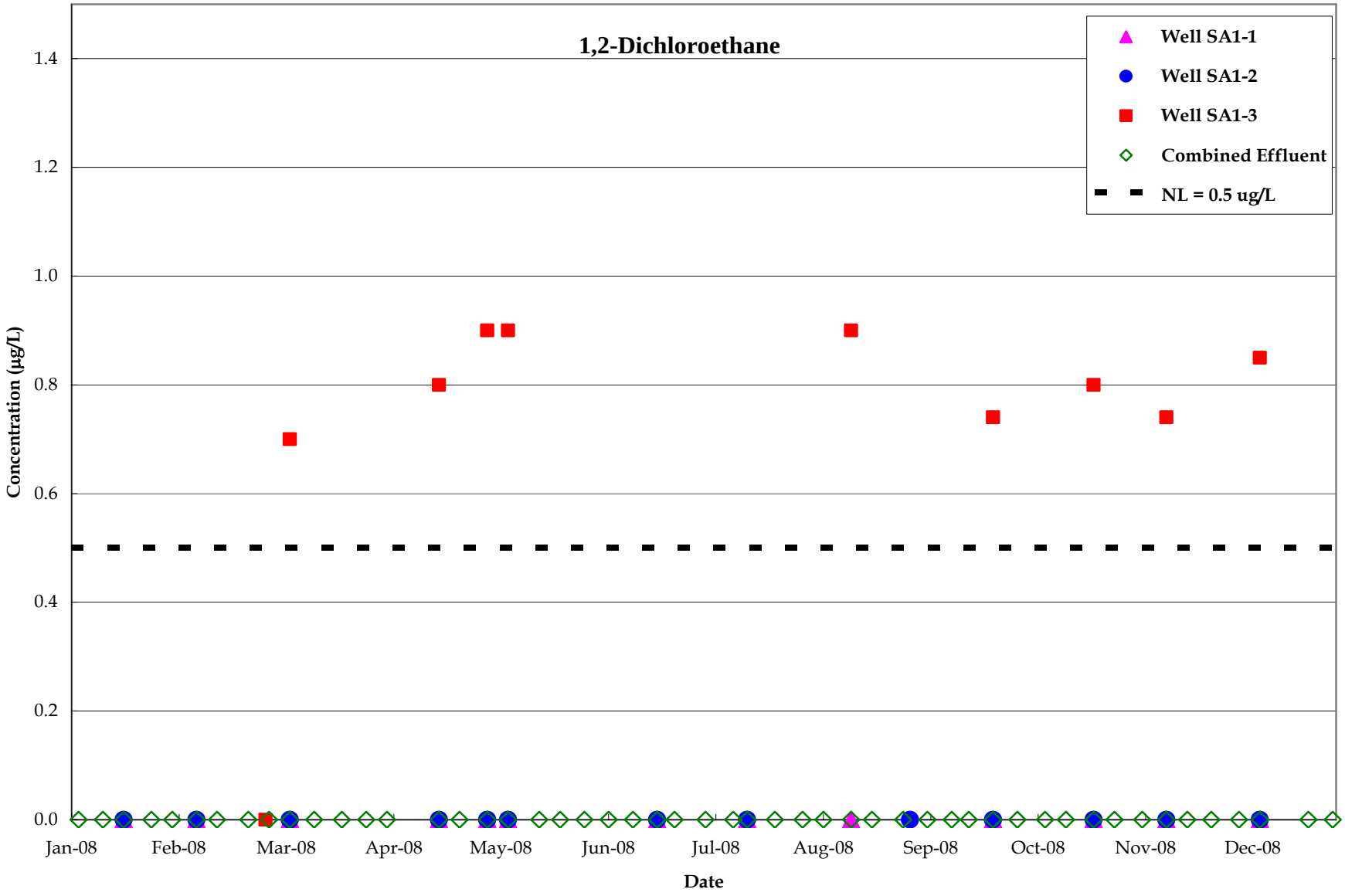
Baldwin Park Operable Unit
San Gabriel Valley, California

AMEC Geomatrix

Project No. 7190

Figure 5-21

\\DENI-FS1\GIS\Projects\Aerojet 7190\GIS_maps\Annual Report TvsC\2008\5-21_TCE_TvC.mxd

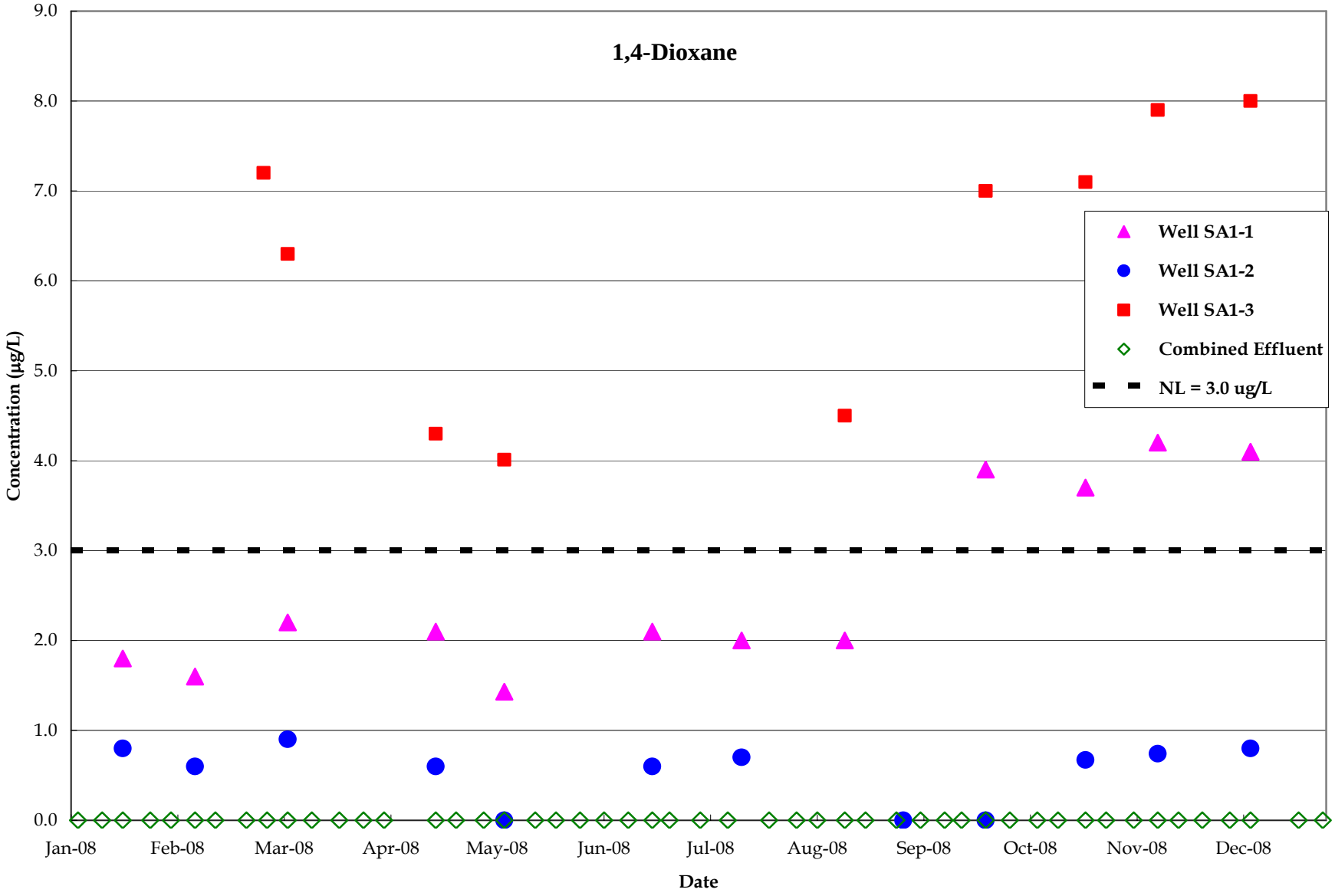


ERM

1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-1

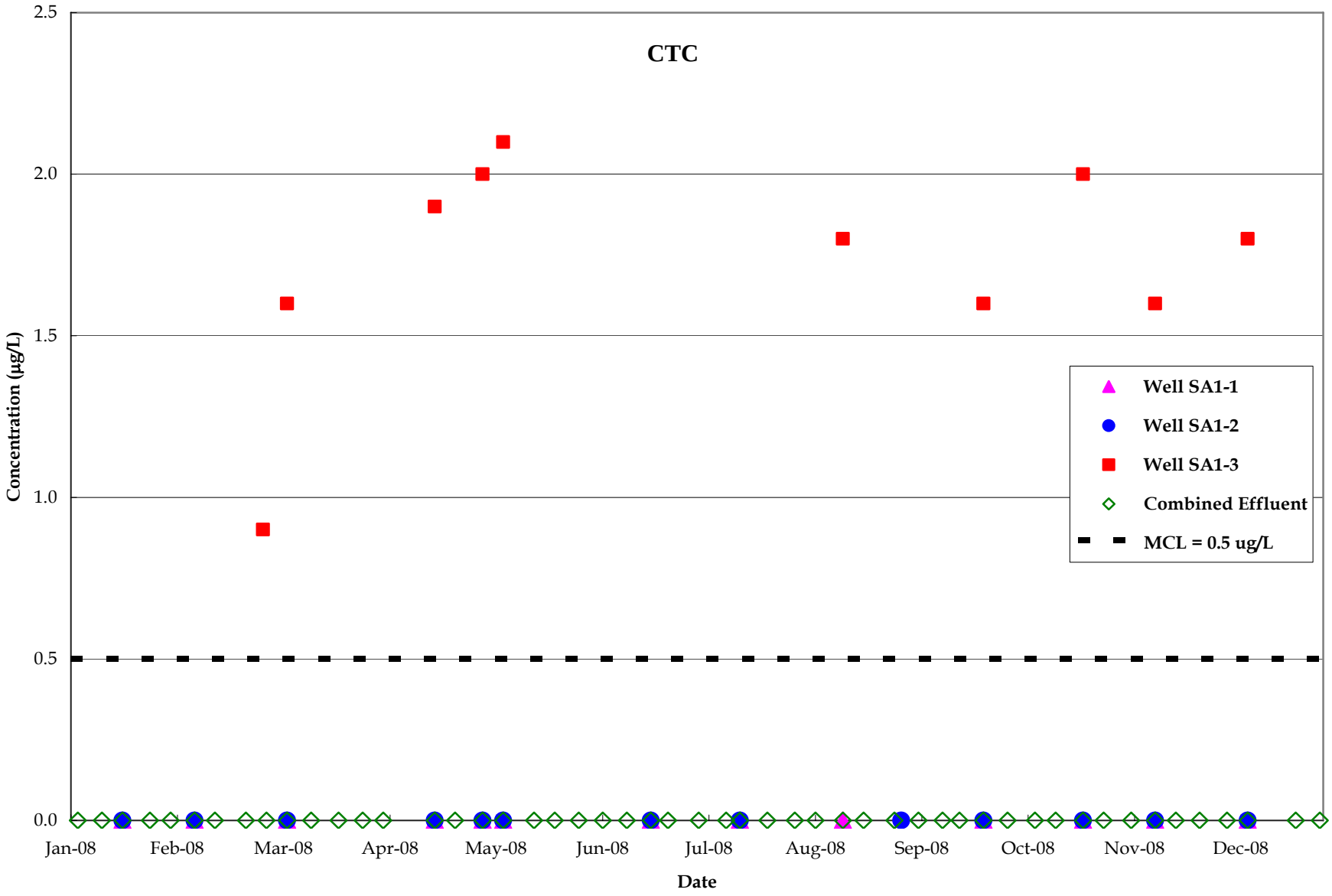


ERM

1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-2

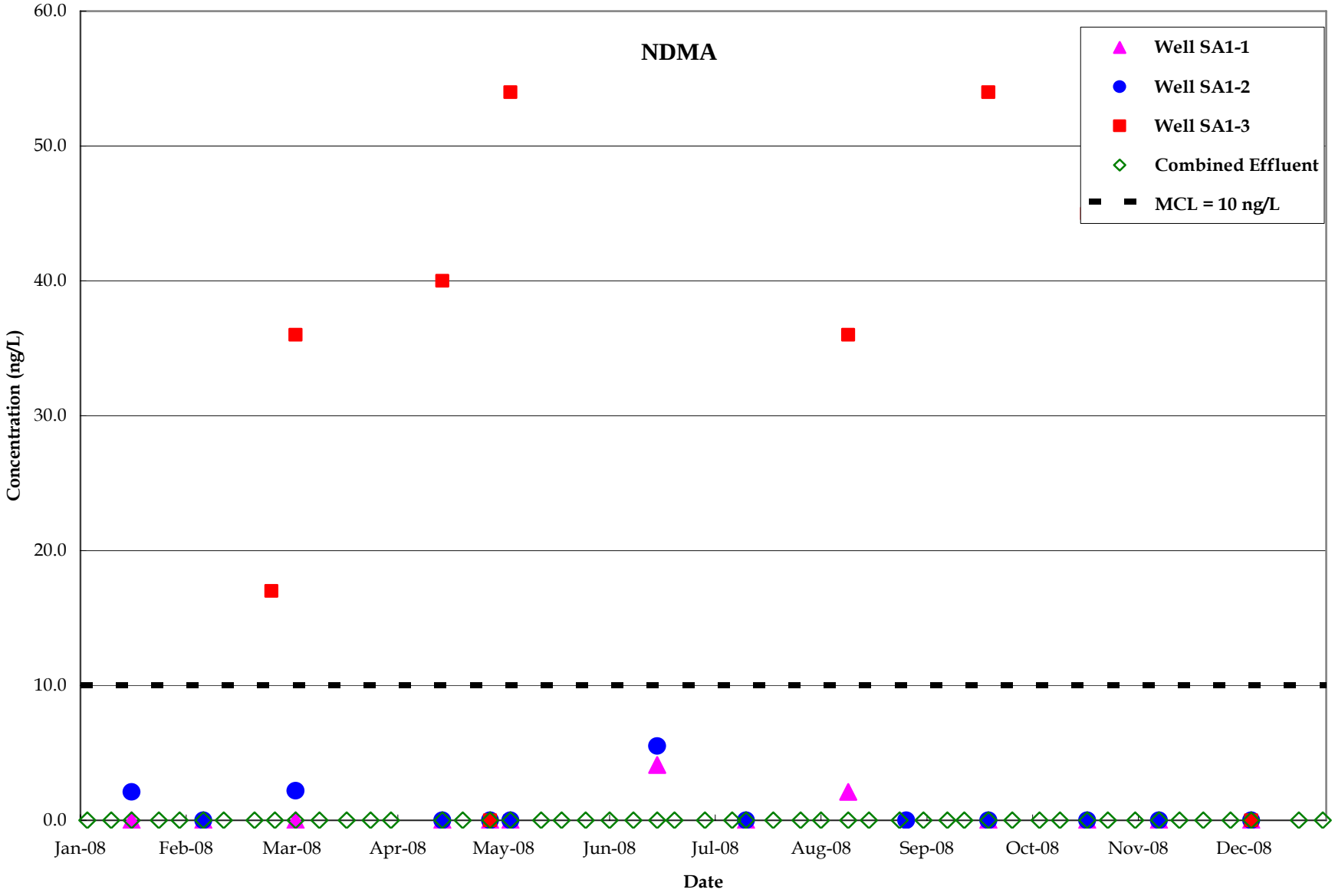


ERM

CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-3

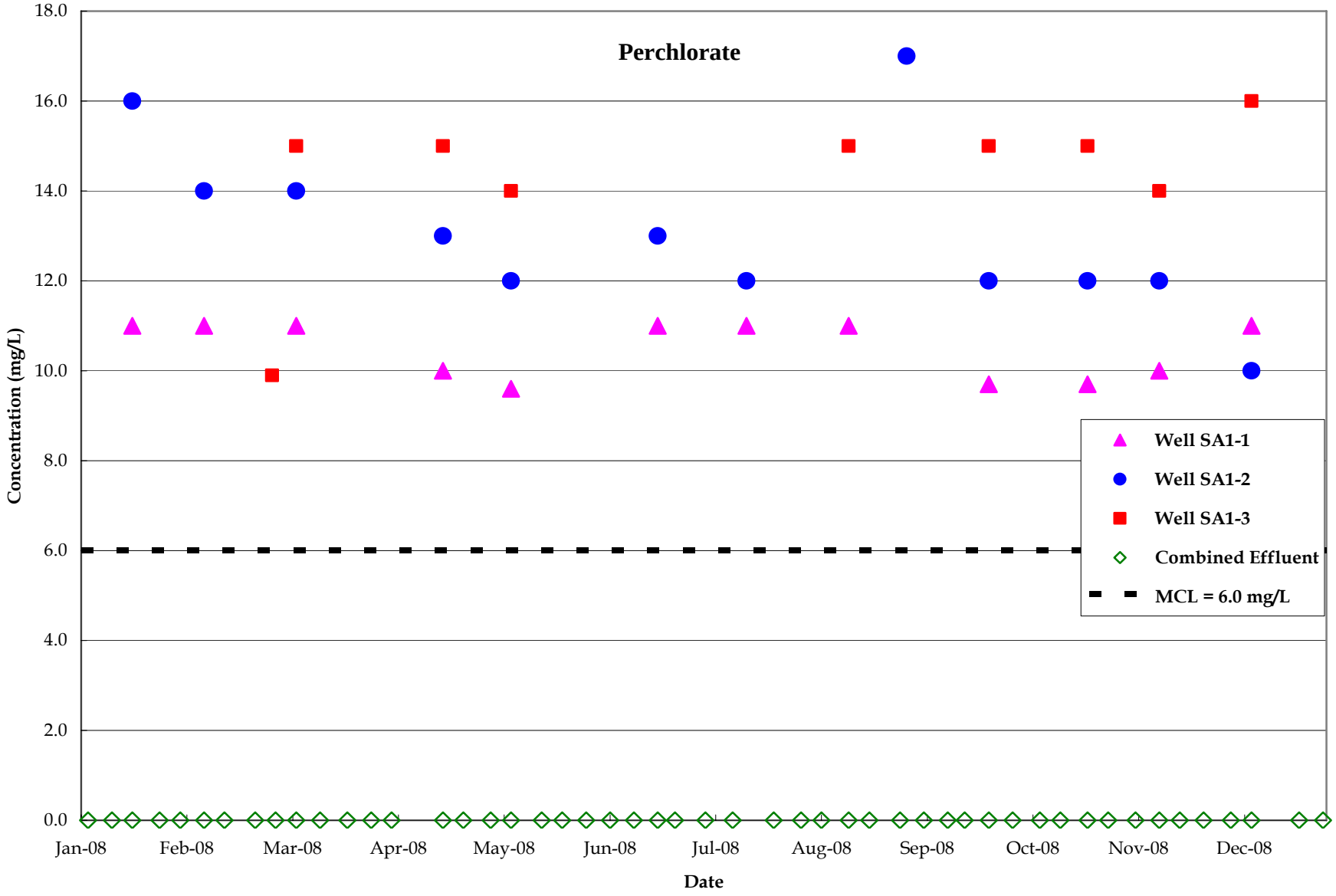


ERM

N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-4

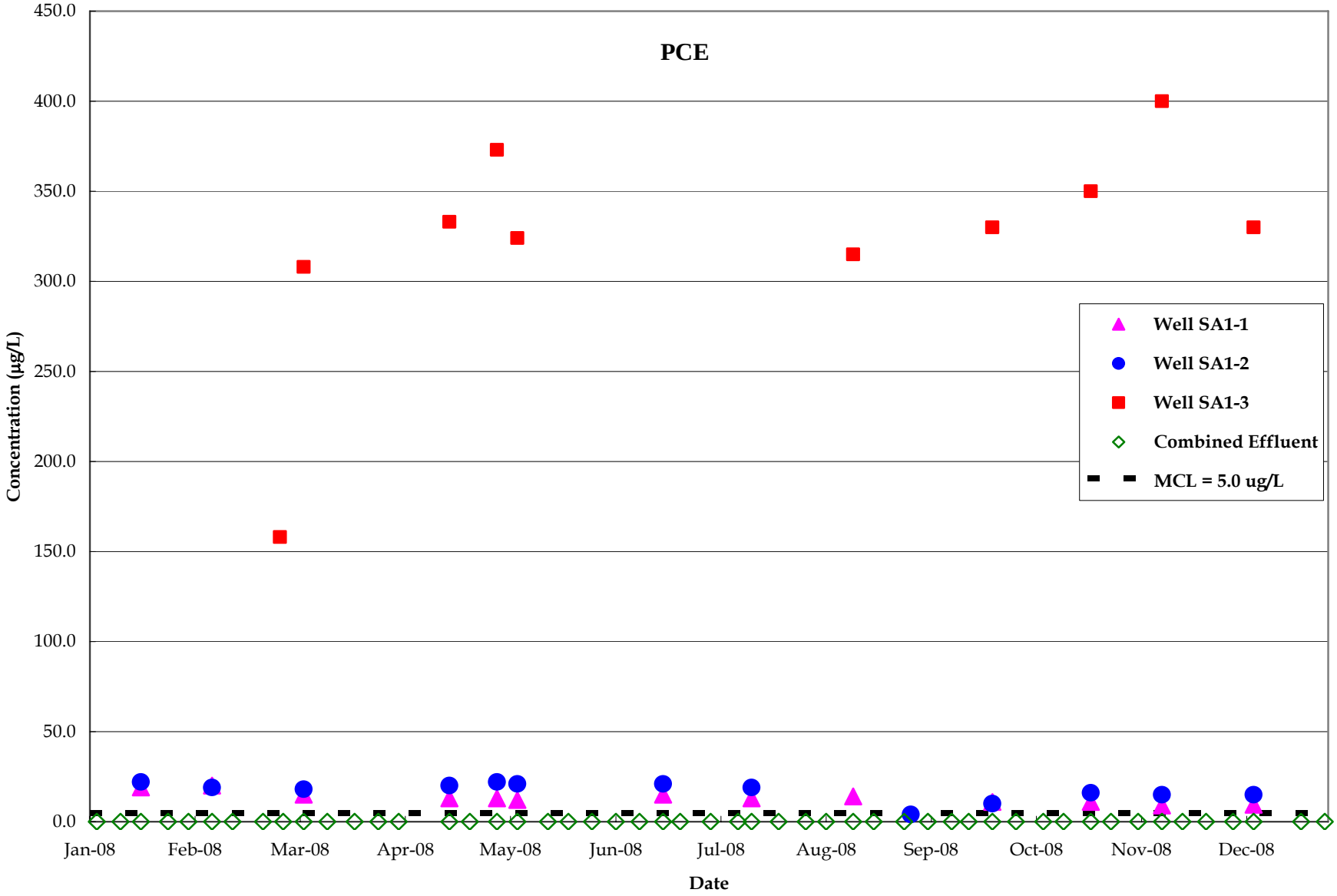


ERM

PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-5

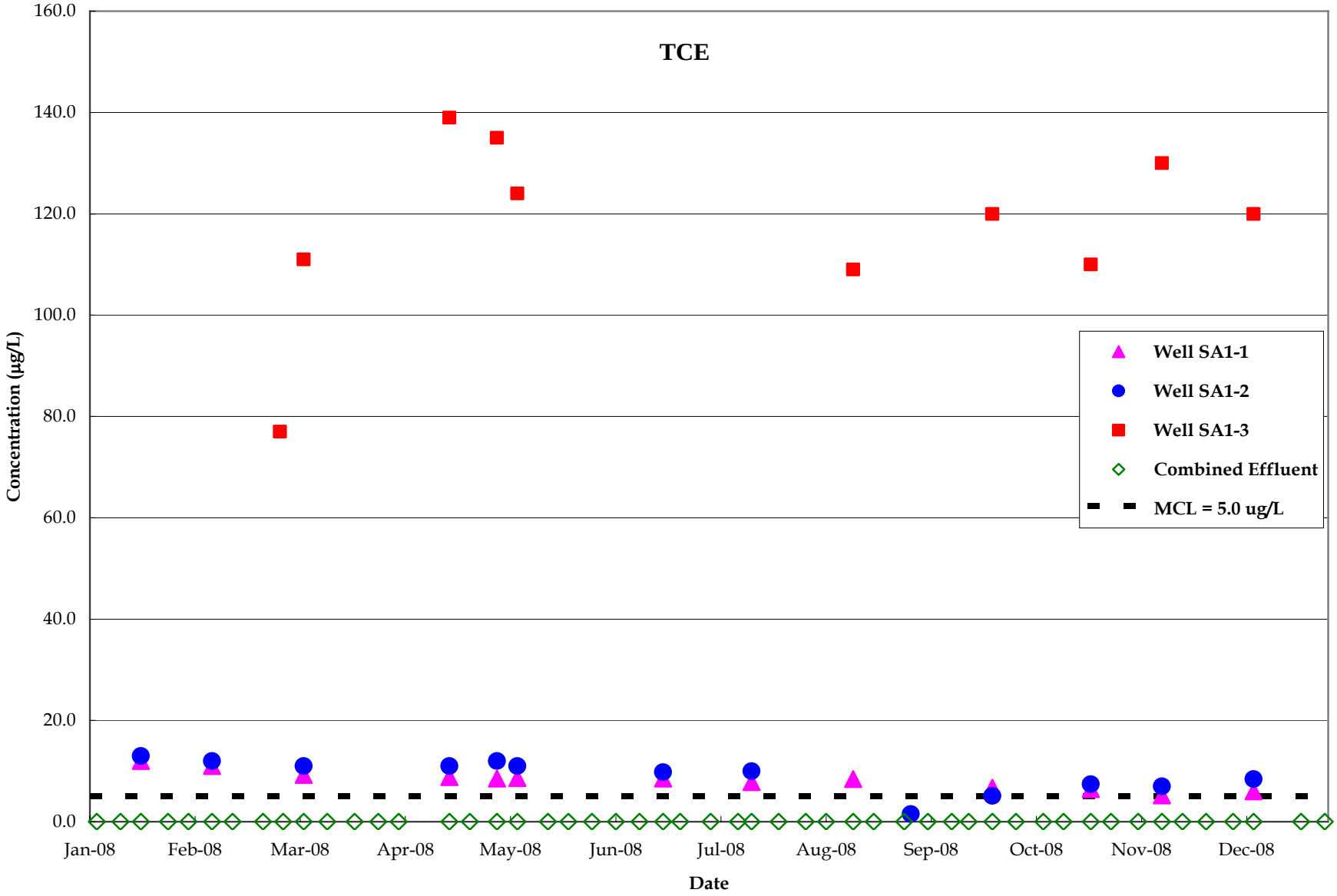


ERM

TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-6

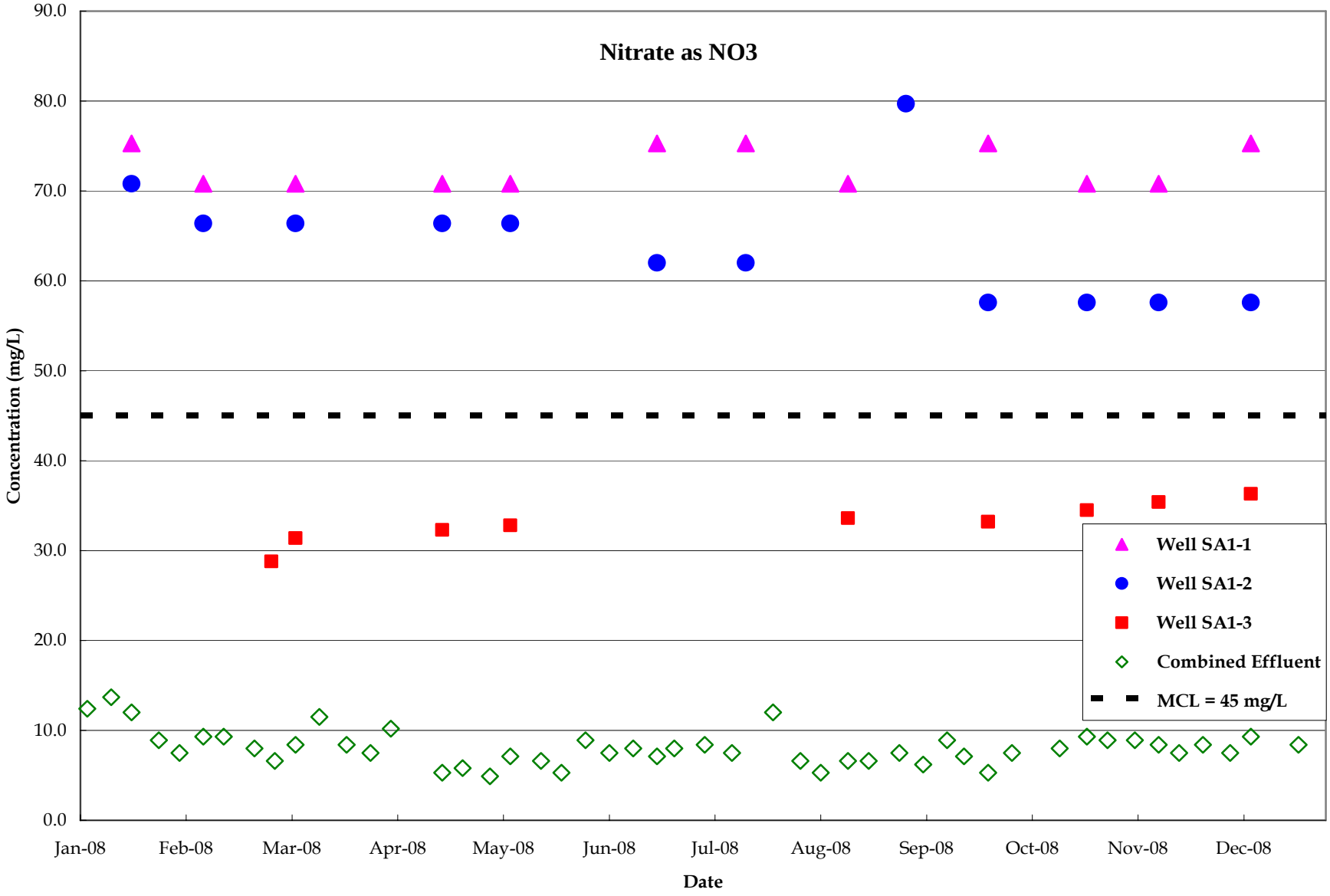


ERM

TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-7

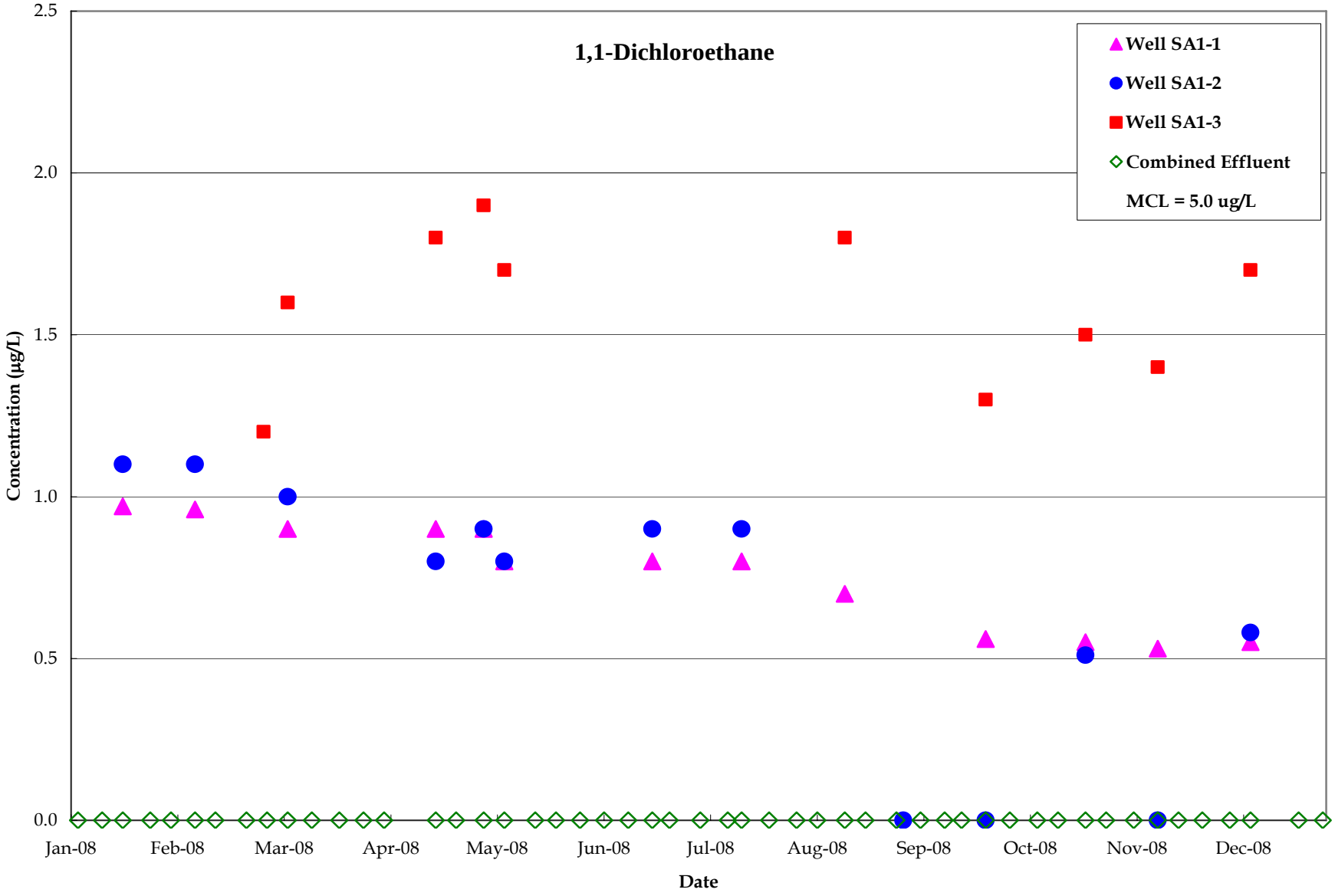


ERM

NITRATE (NO3) CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-8

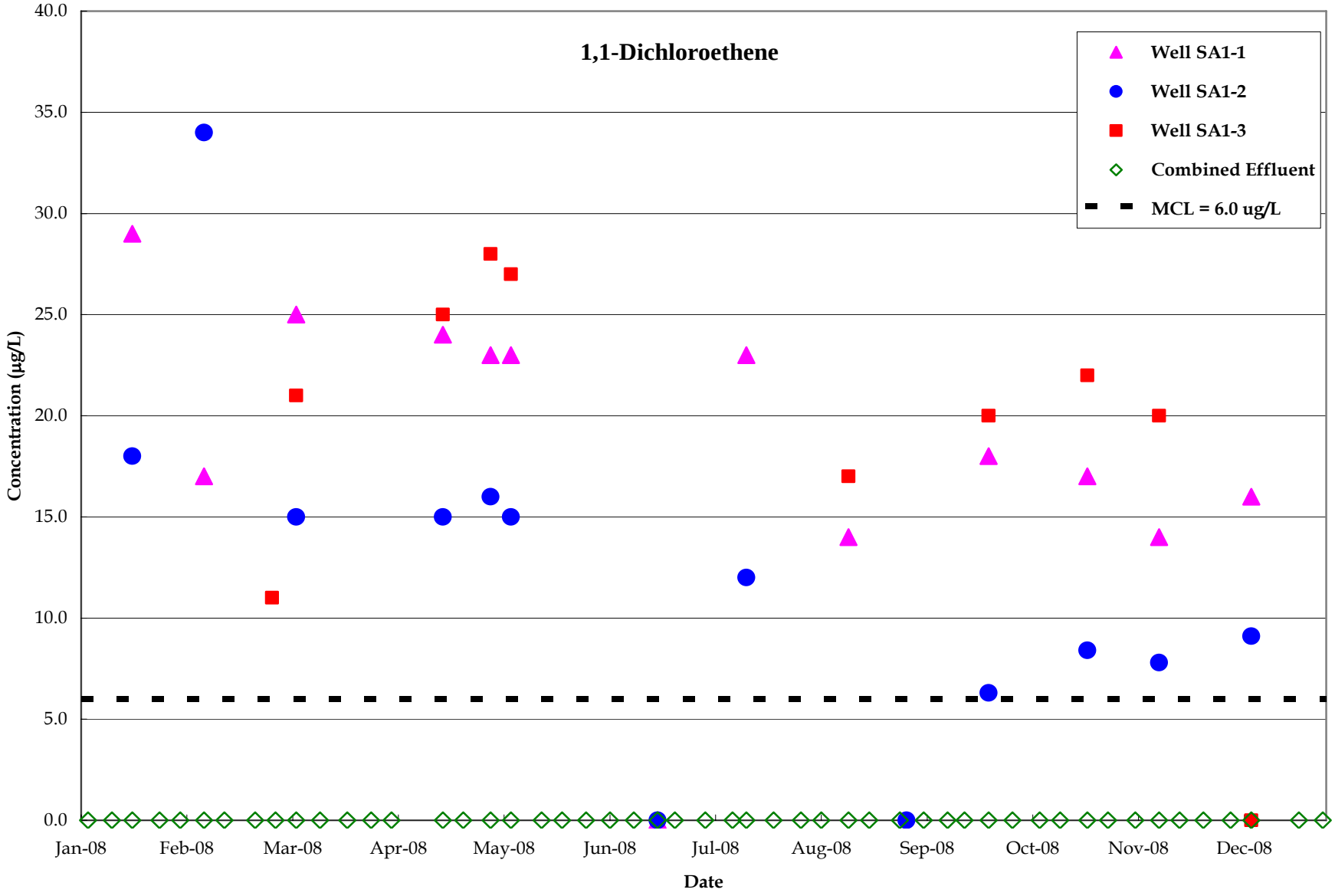


ERM

1,1-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-9

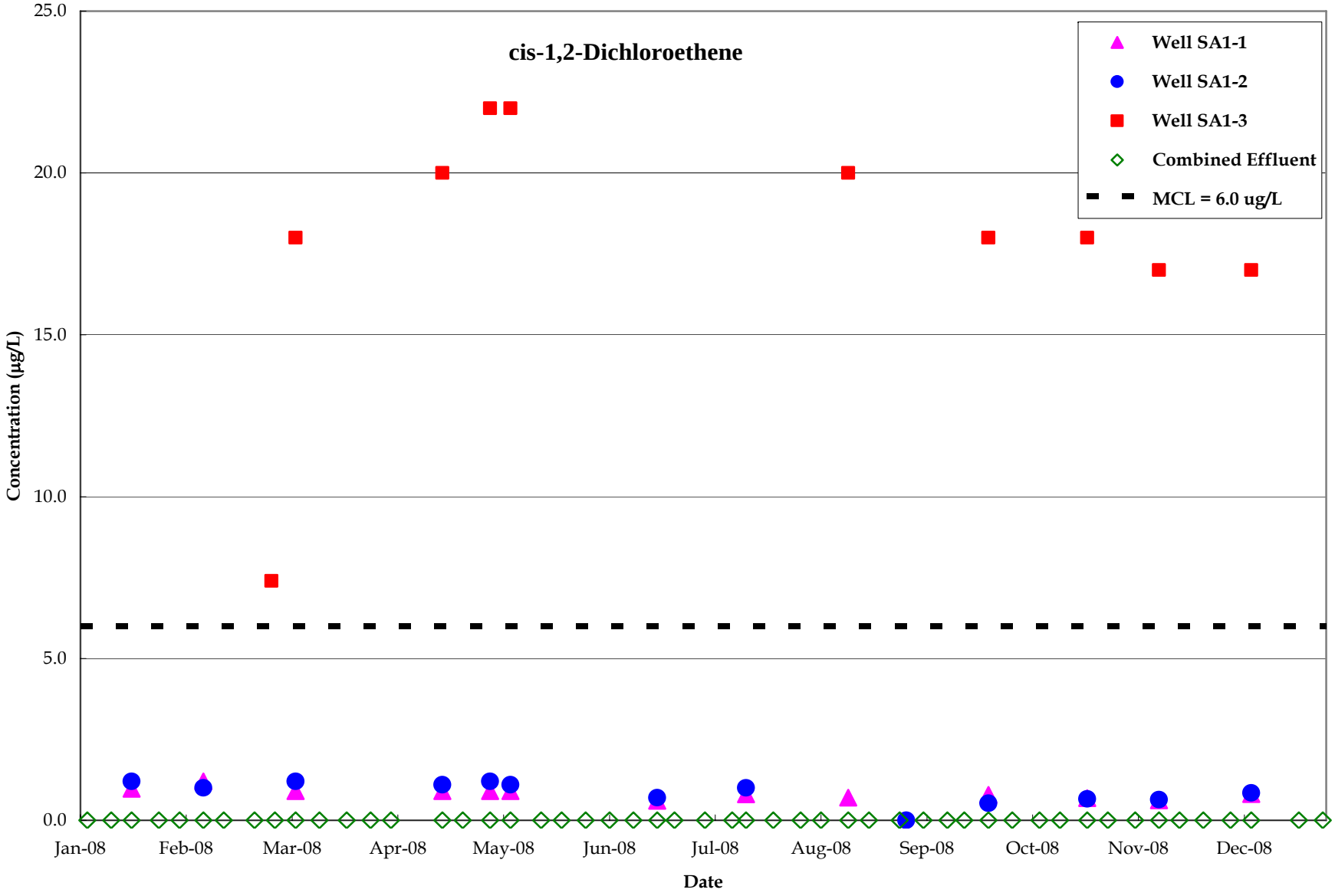


ERM

1,1-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-10

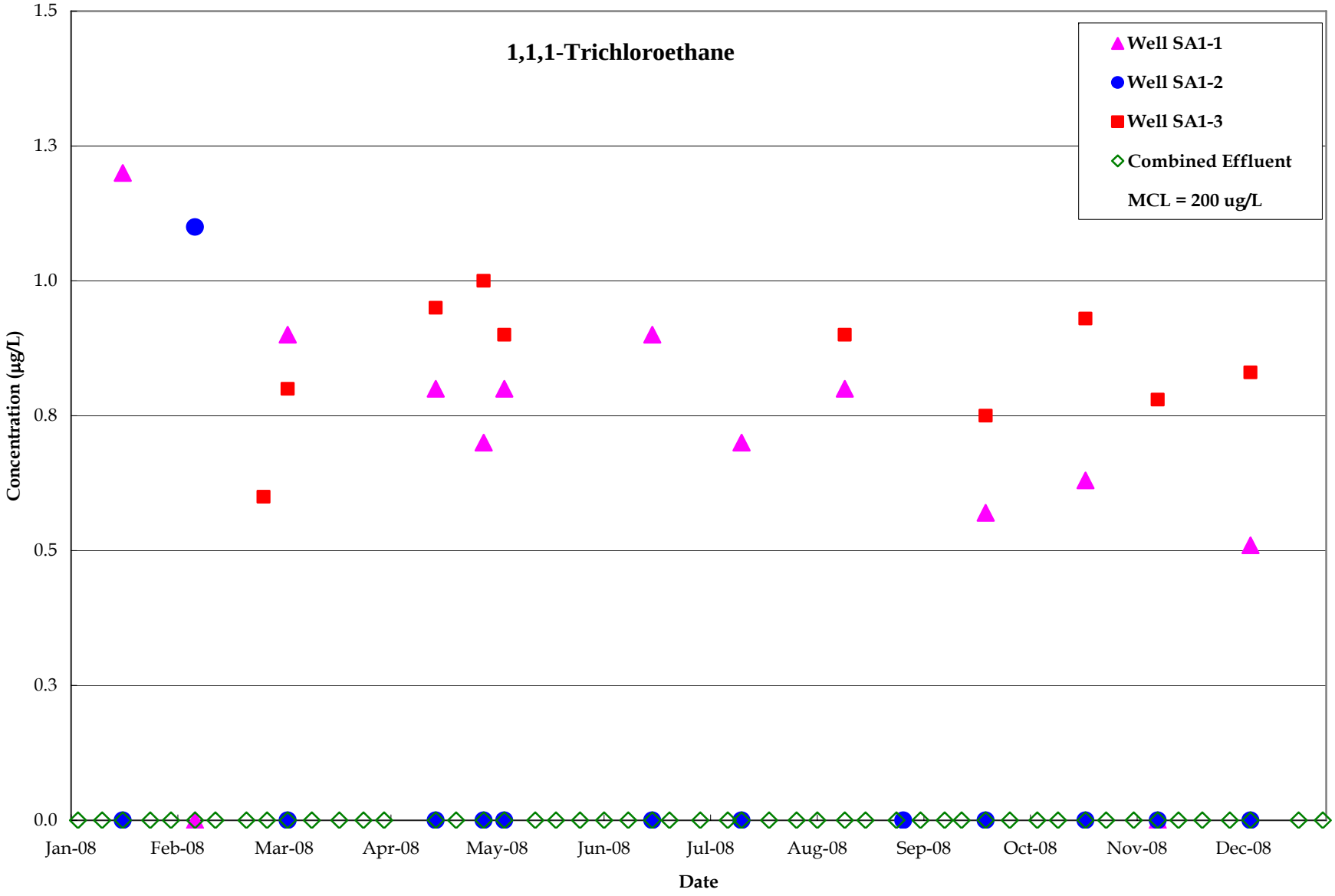


ERM

CIS-1,2-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-11

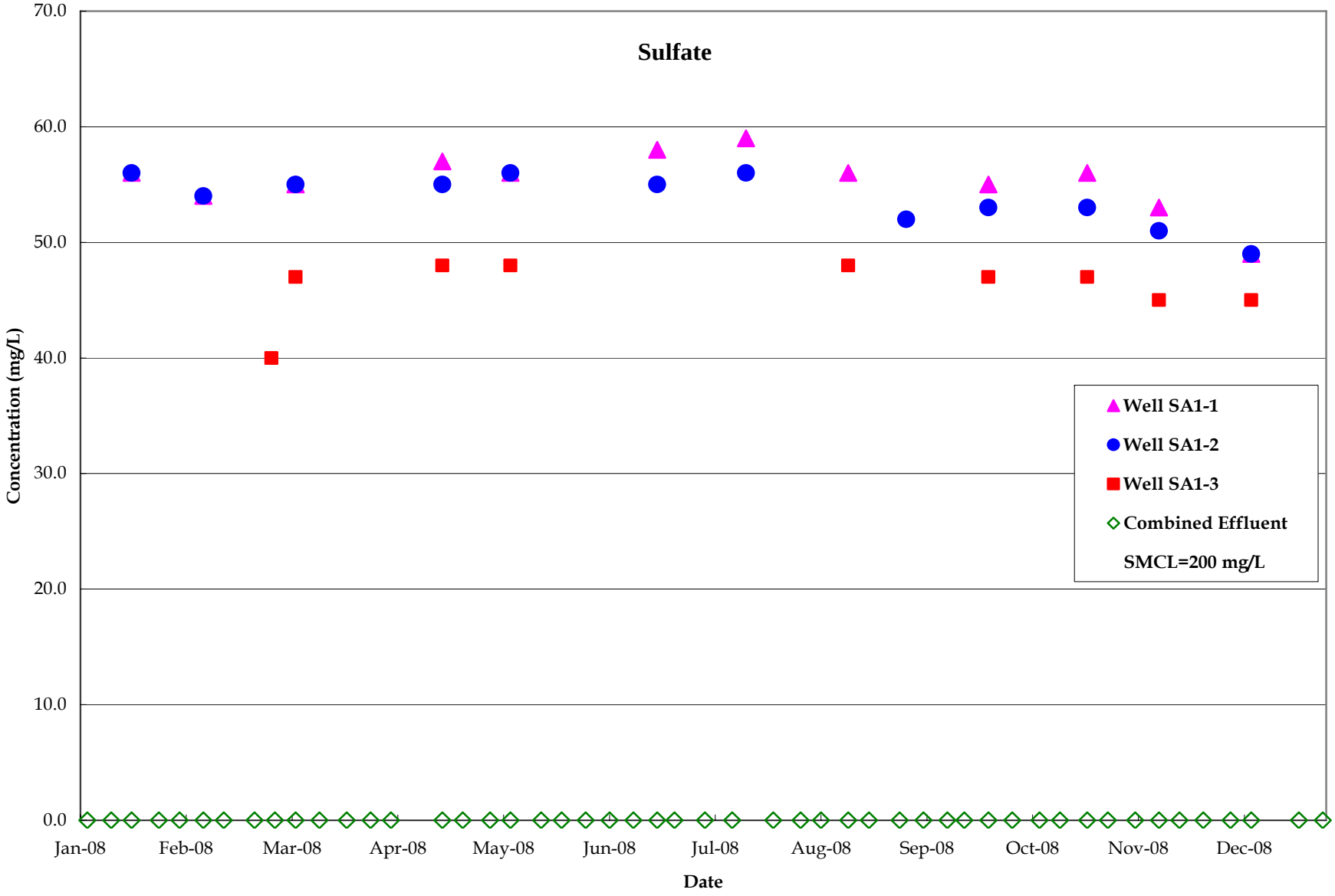


ERM

1,1,1-TRICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-12

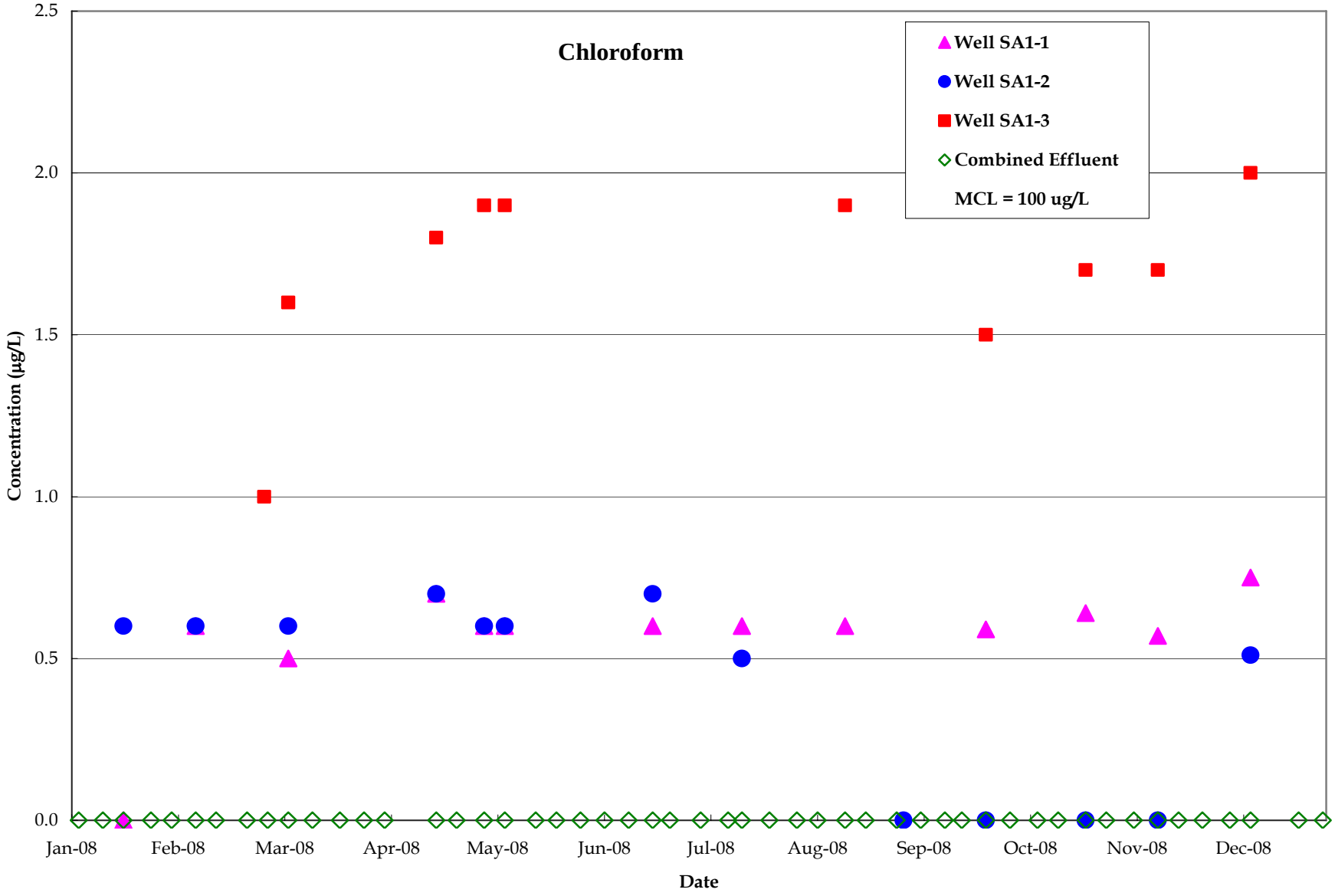


ERM

SULFATE CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-13

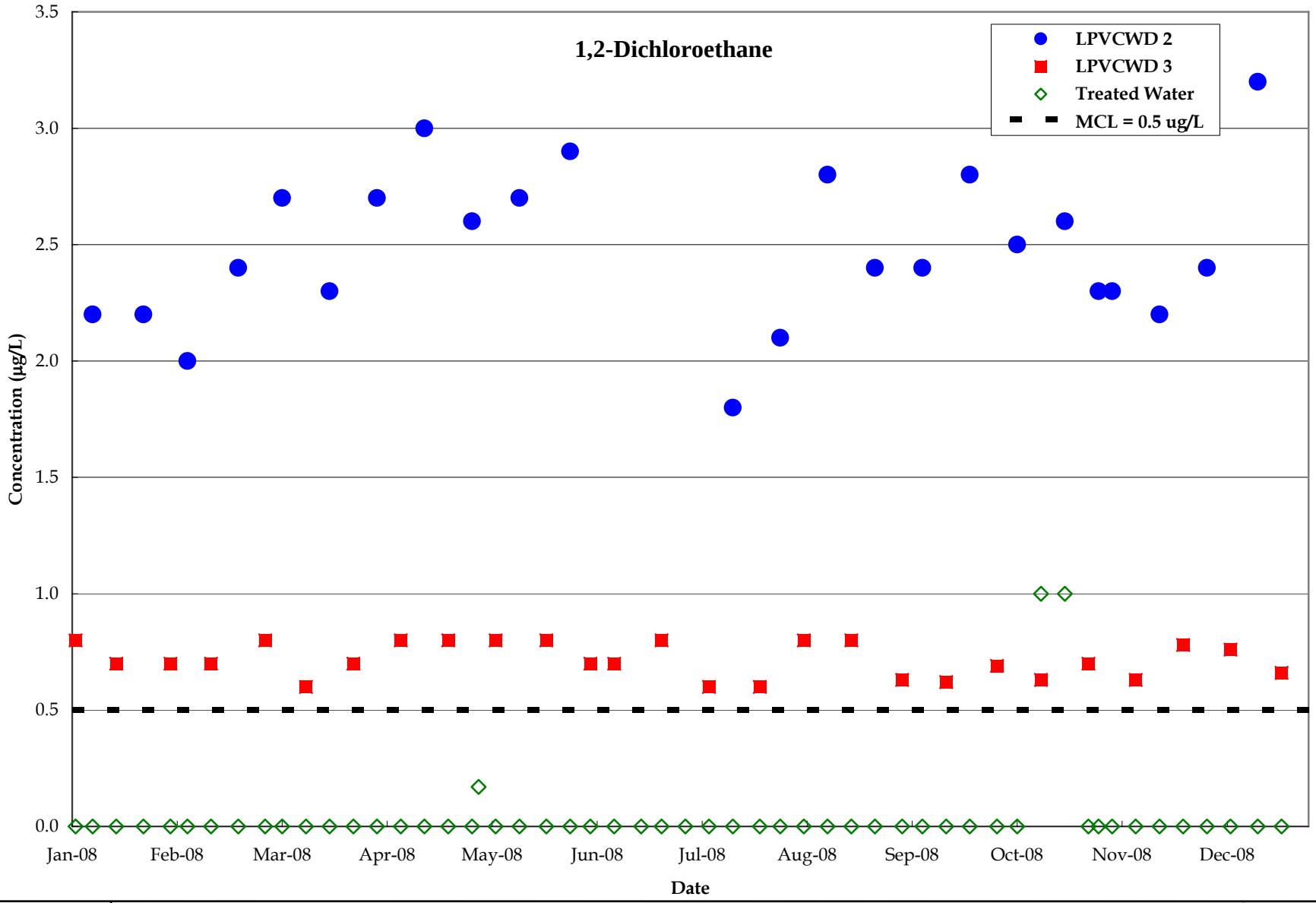


ERM

CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR
VALLEY COUNTY WATER DISTRICT LANTE TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-14



ERM

1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
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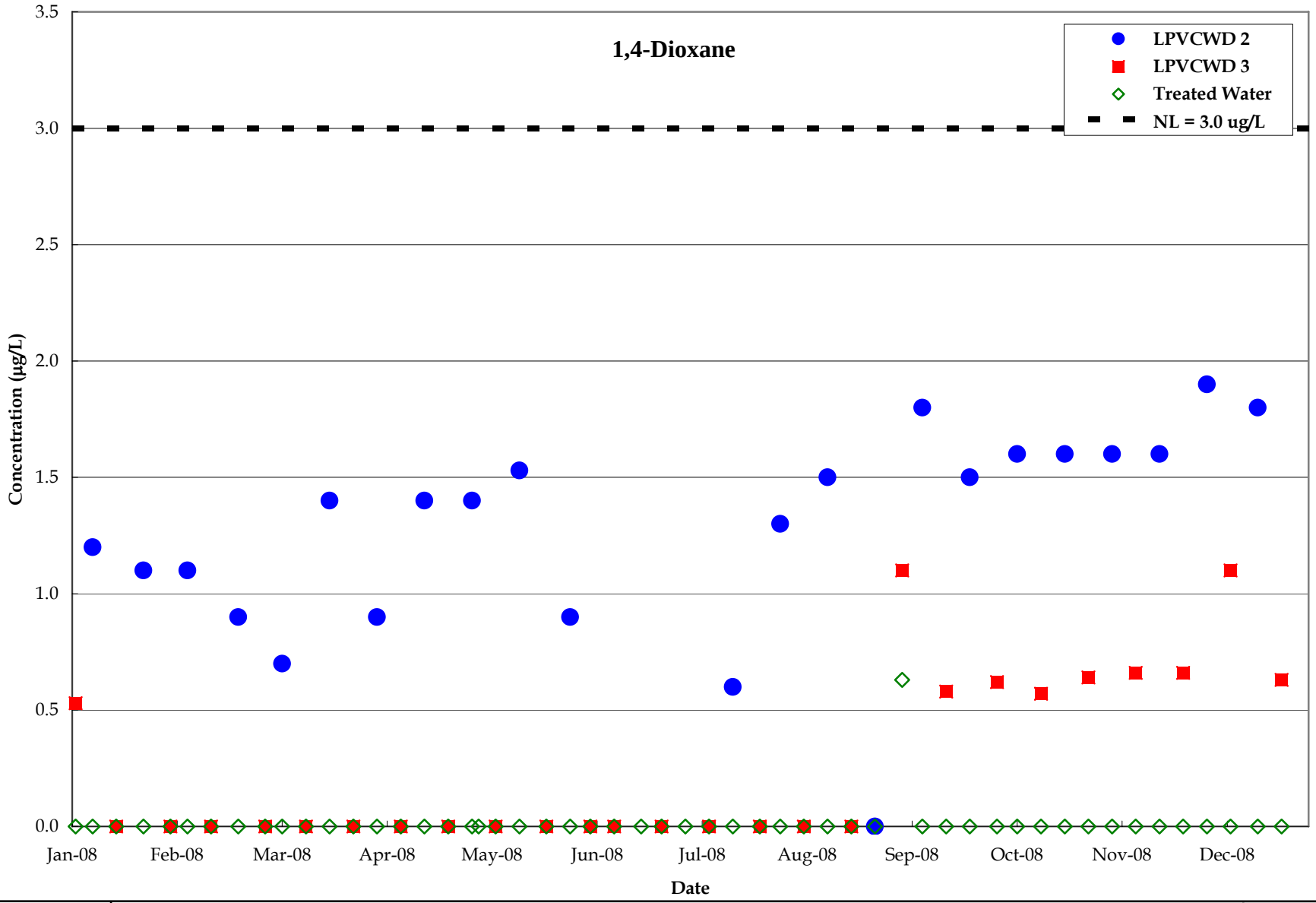
Figure
6-15

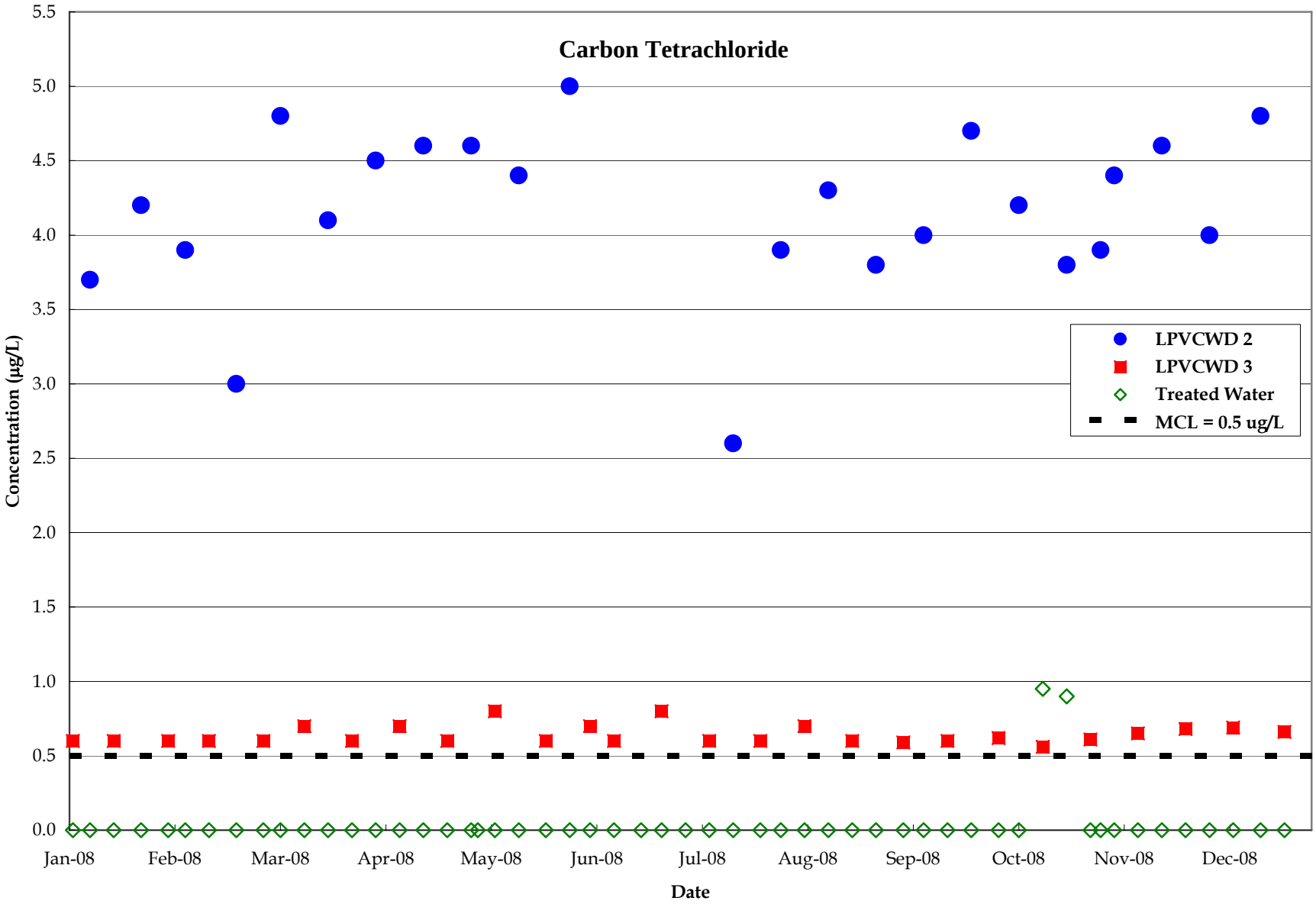


ERM

1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-16

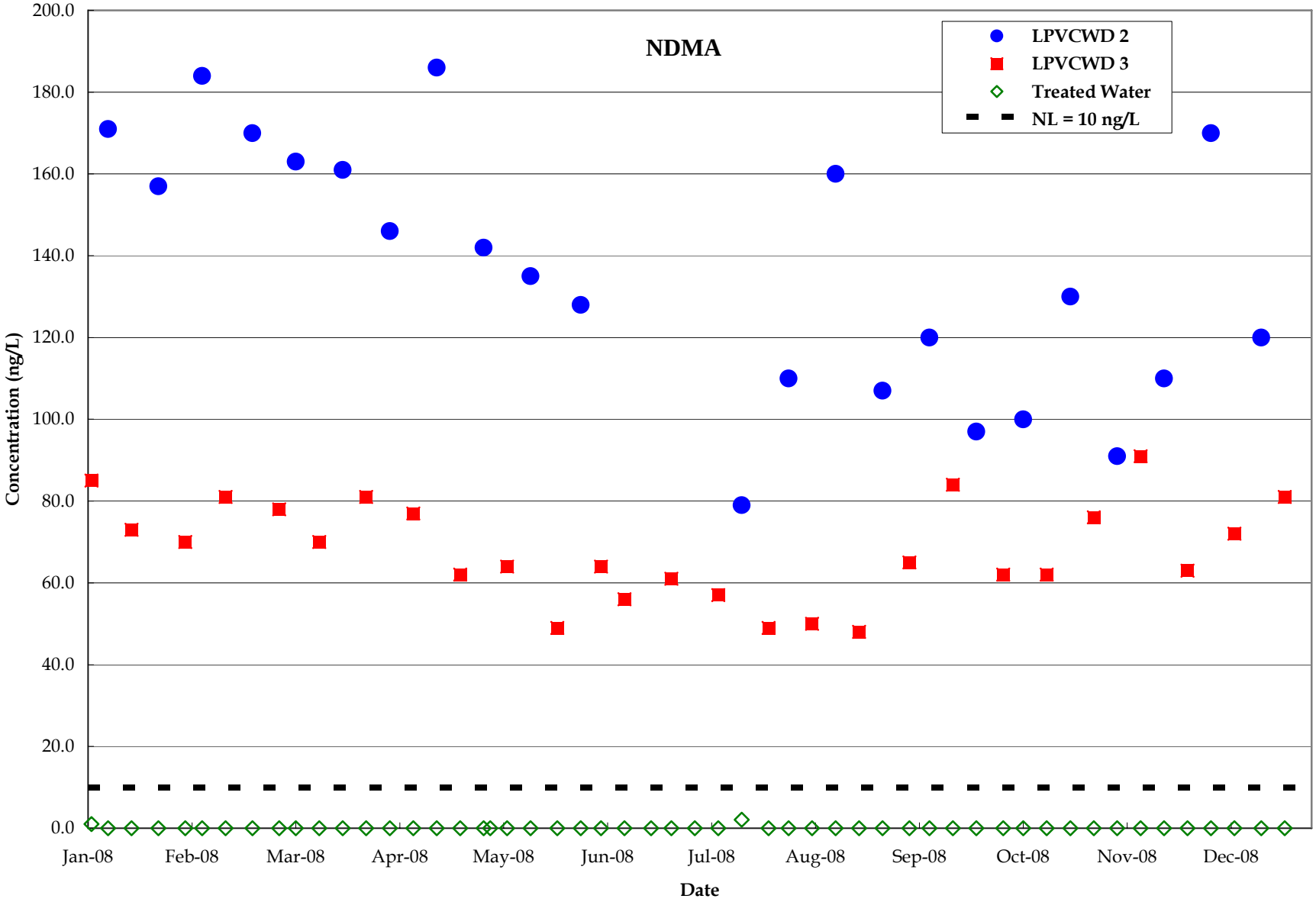


ERM

CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-17

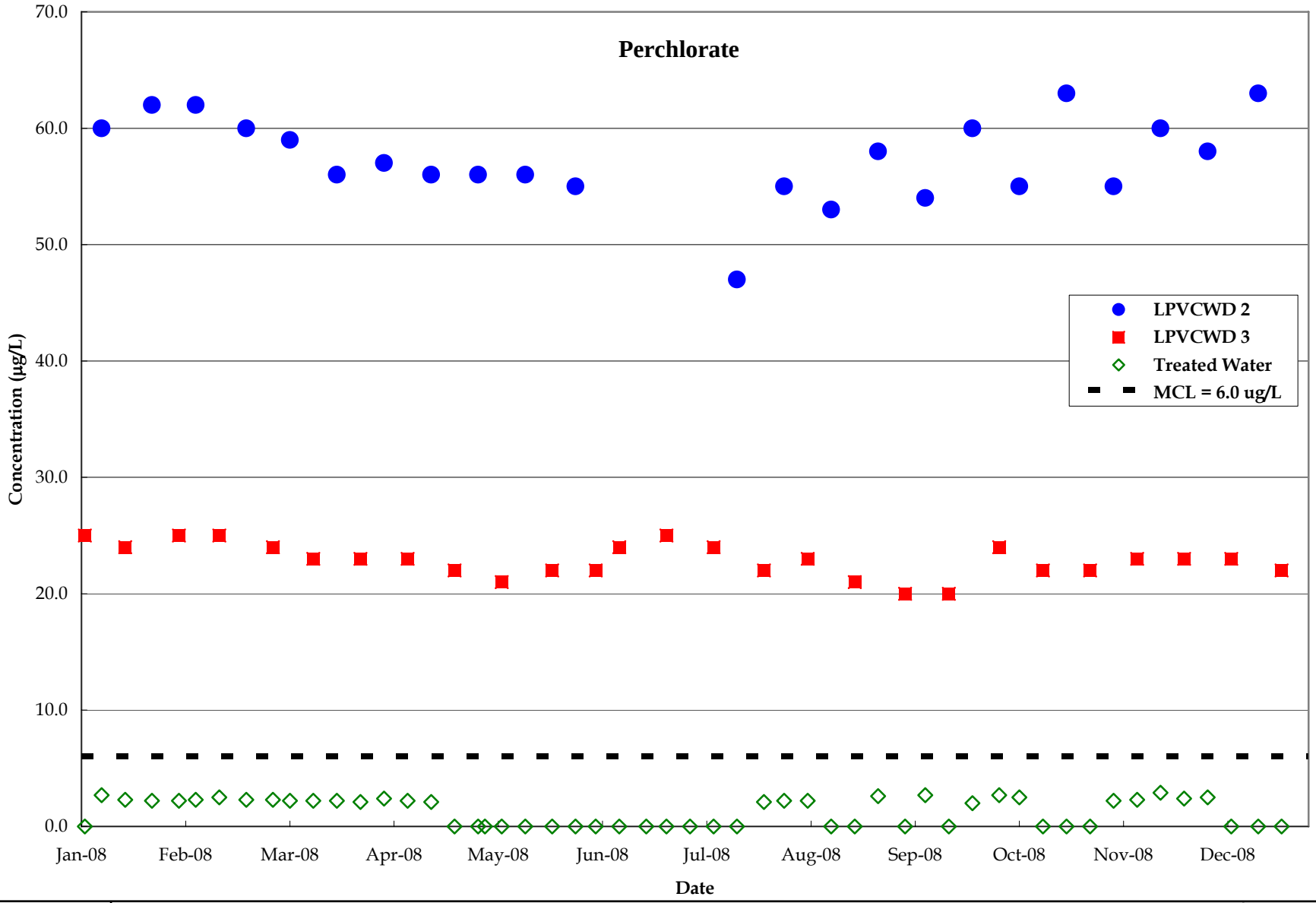


ERM

N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-18

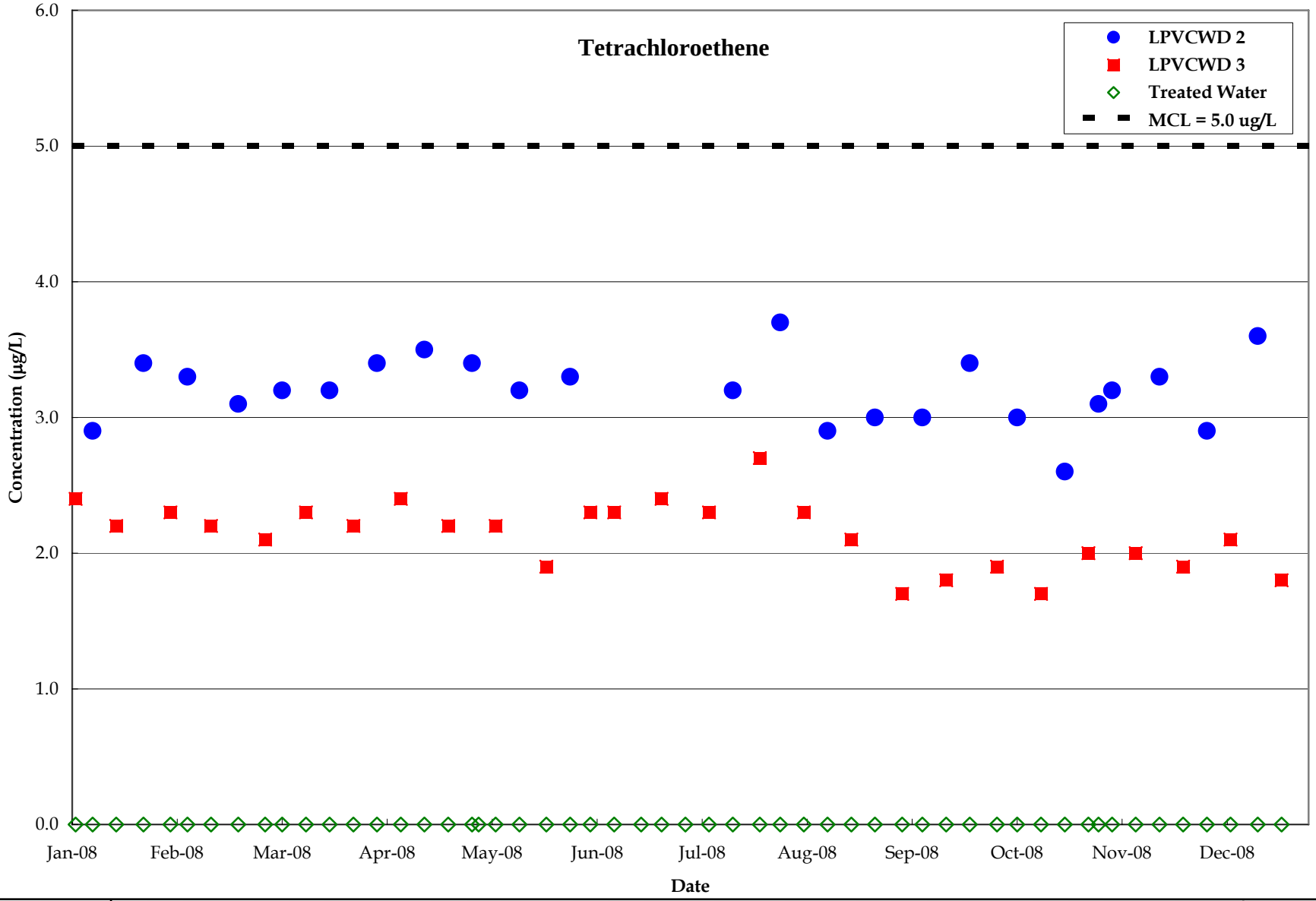


ERM

PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2007)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-19

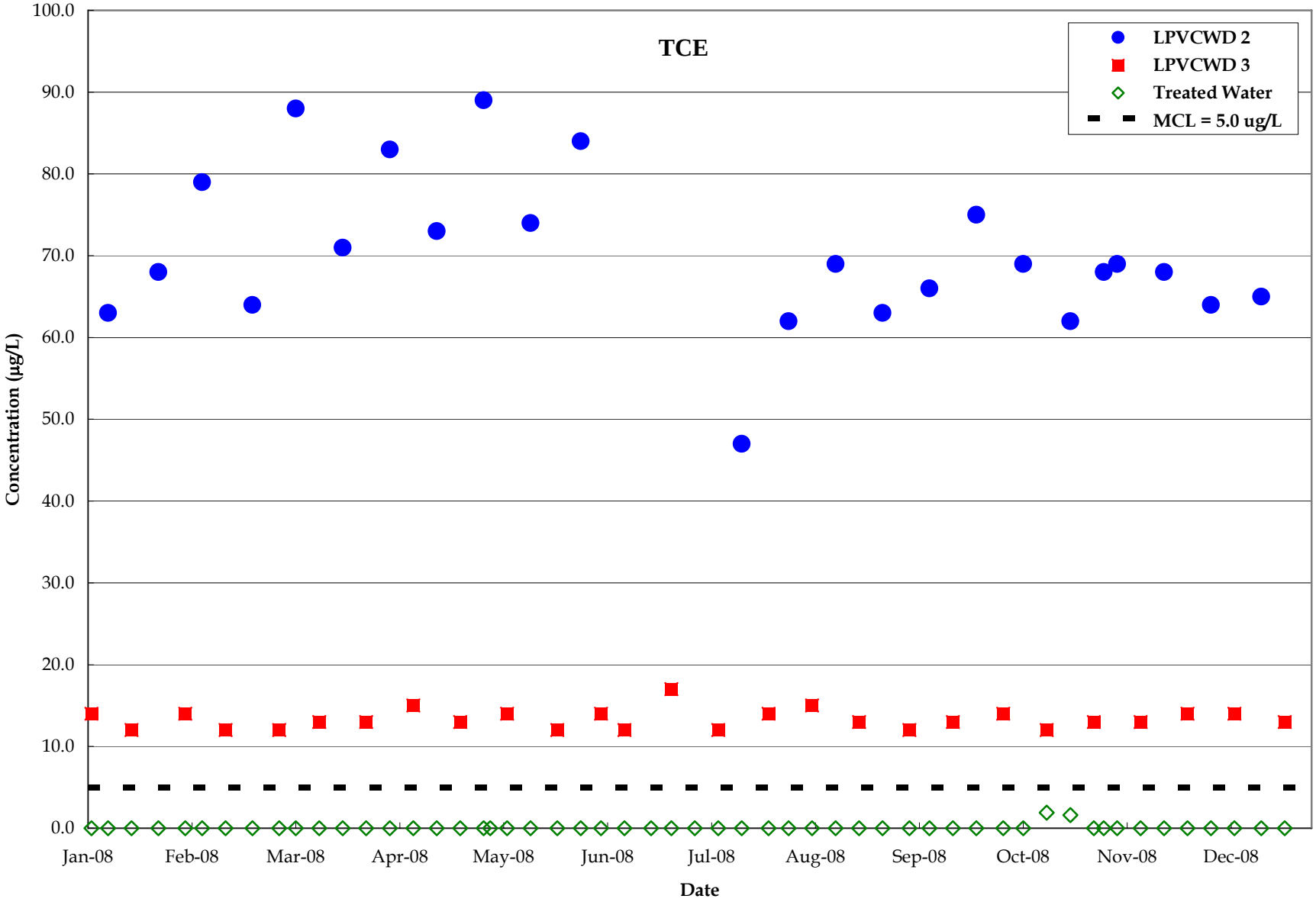


ERM

TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-20

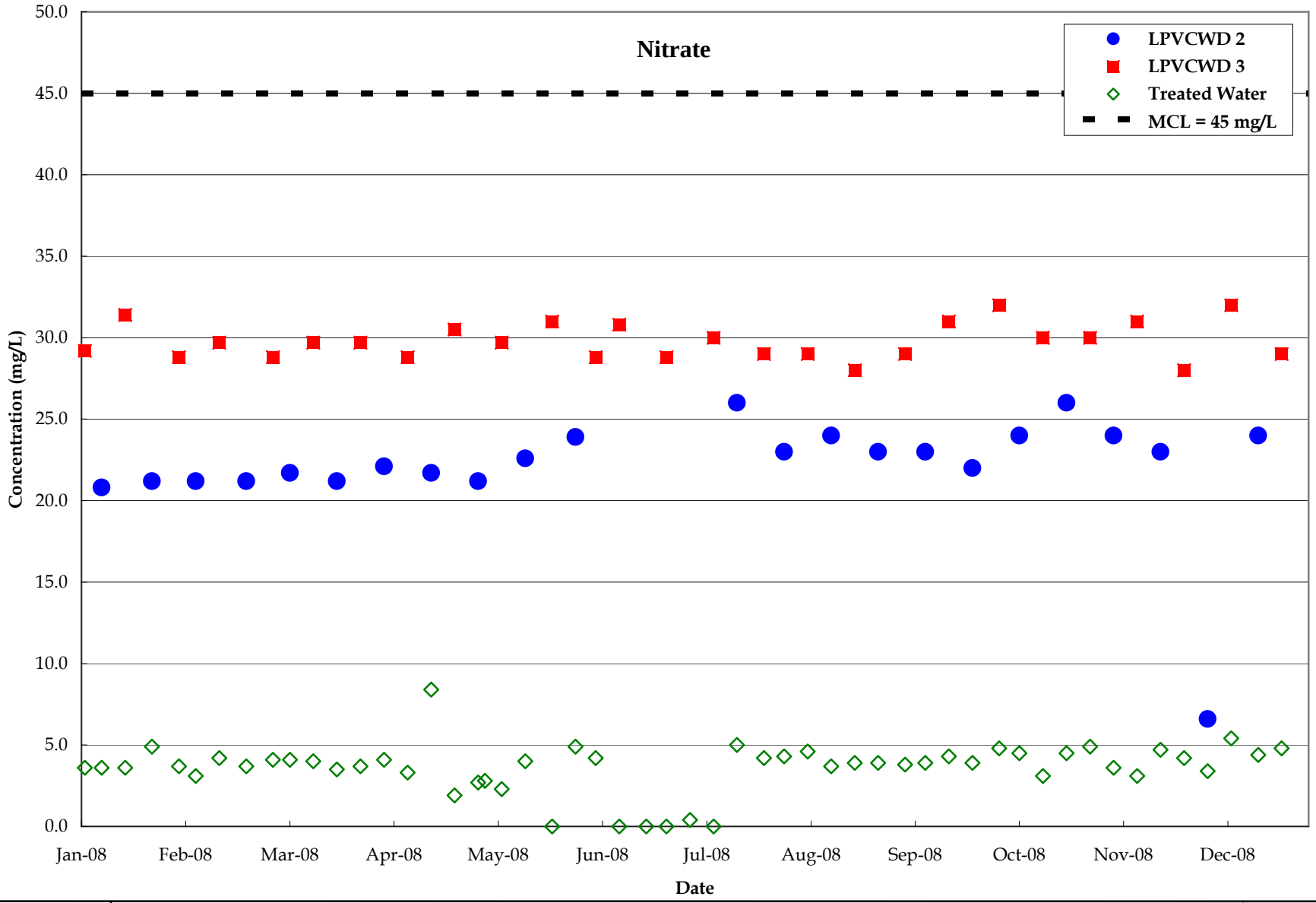


ERM

TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-21

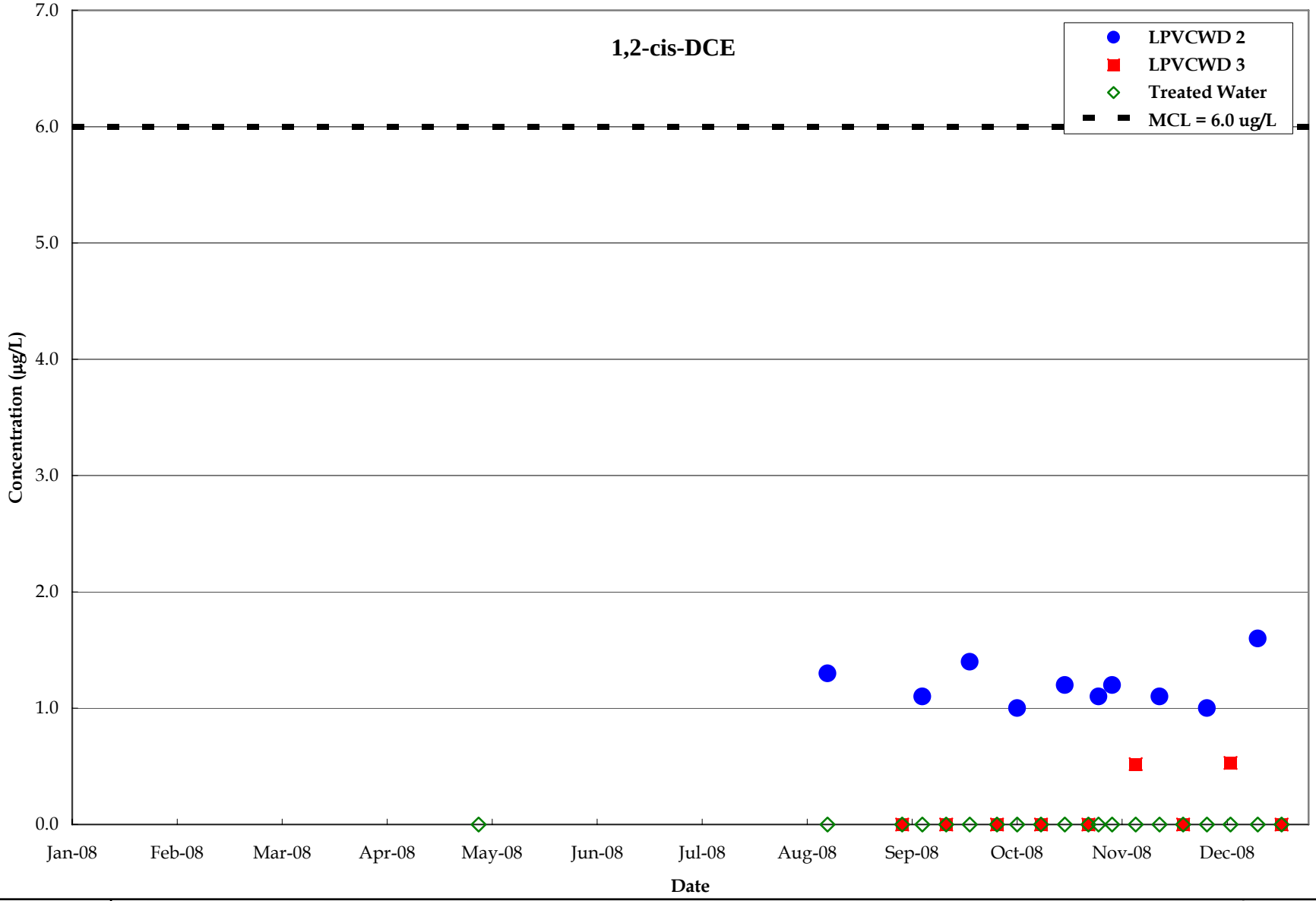


ERM

NITRATE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-22

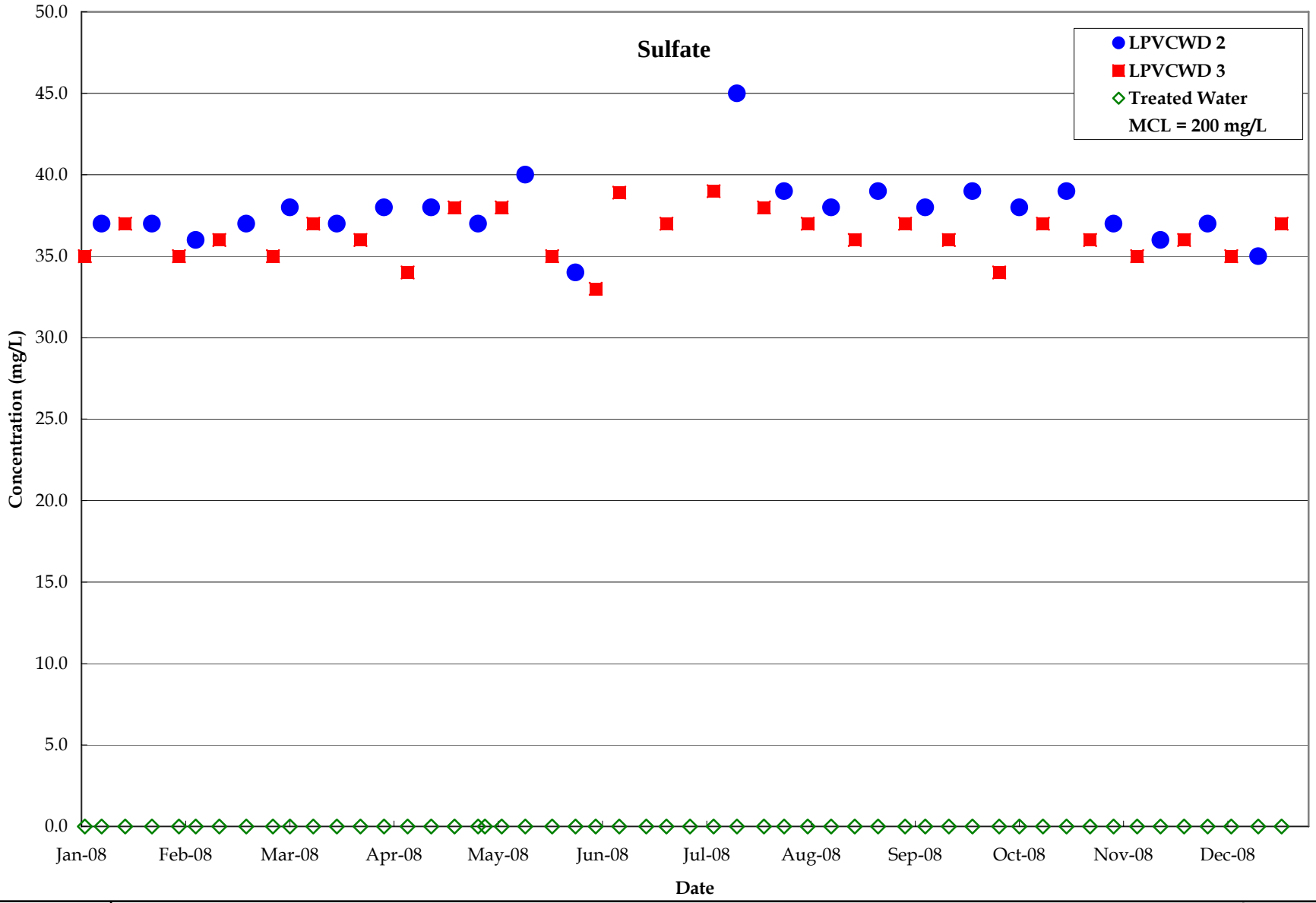


ERM

CIS-1,2-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-23

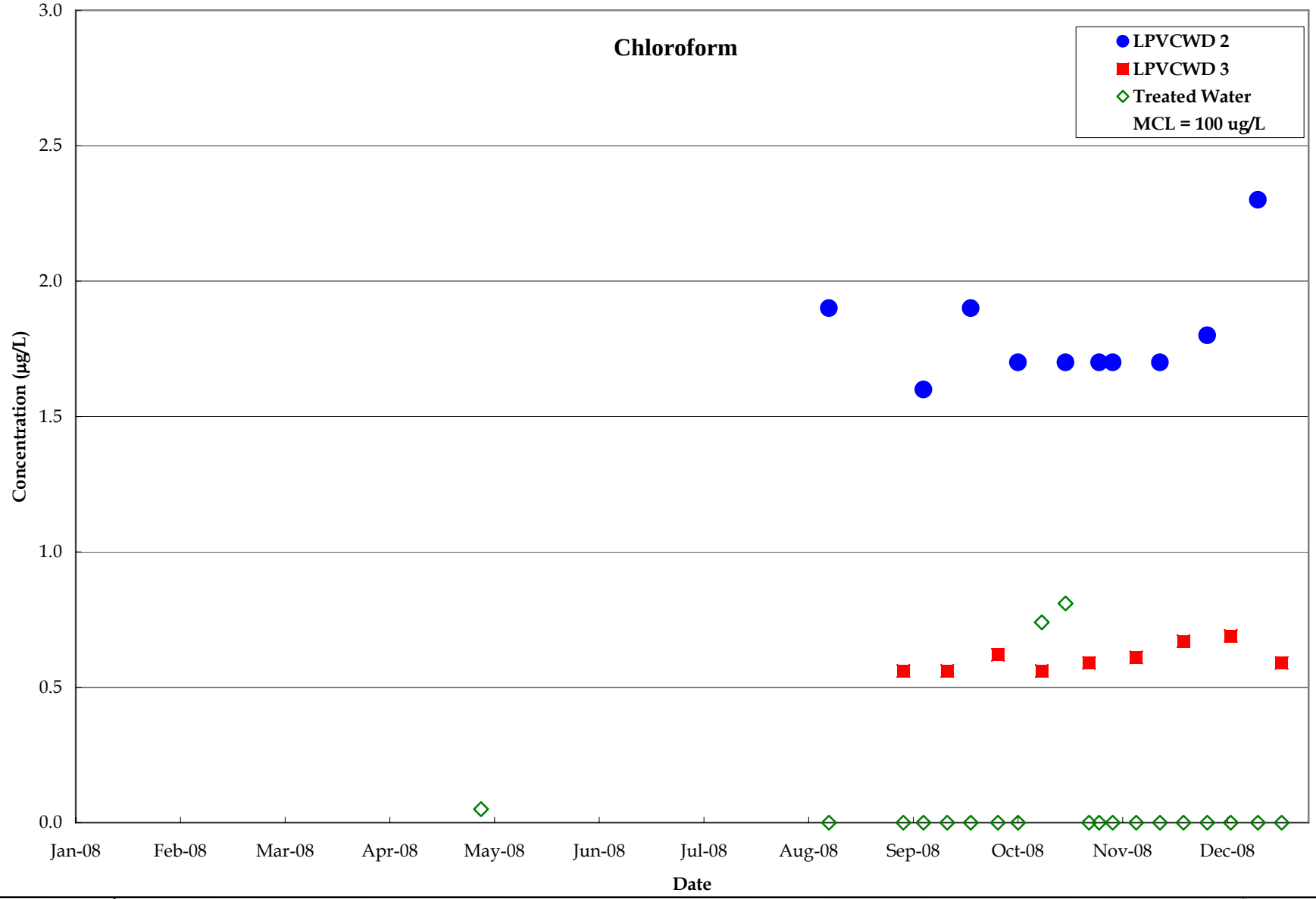


ERM

SULFATE CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-24

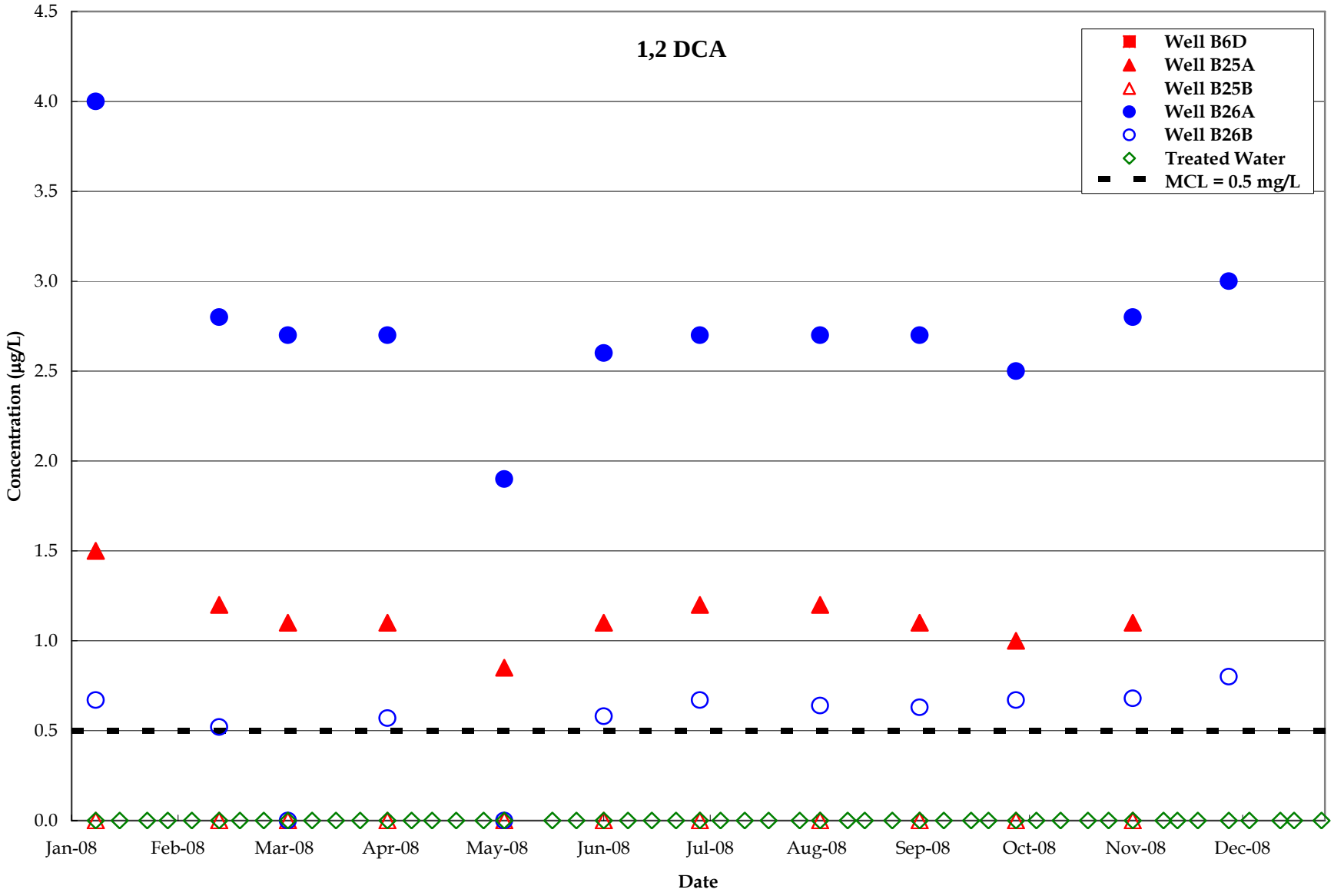


ERM

CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR
LA PUENTE VALLEY COUNTY WATER DISTRICT TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-25

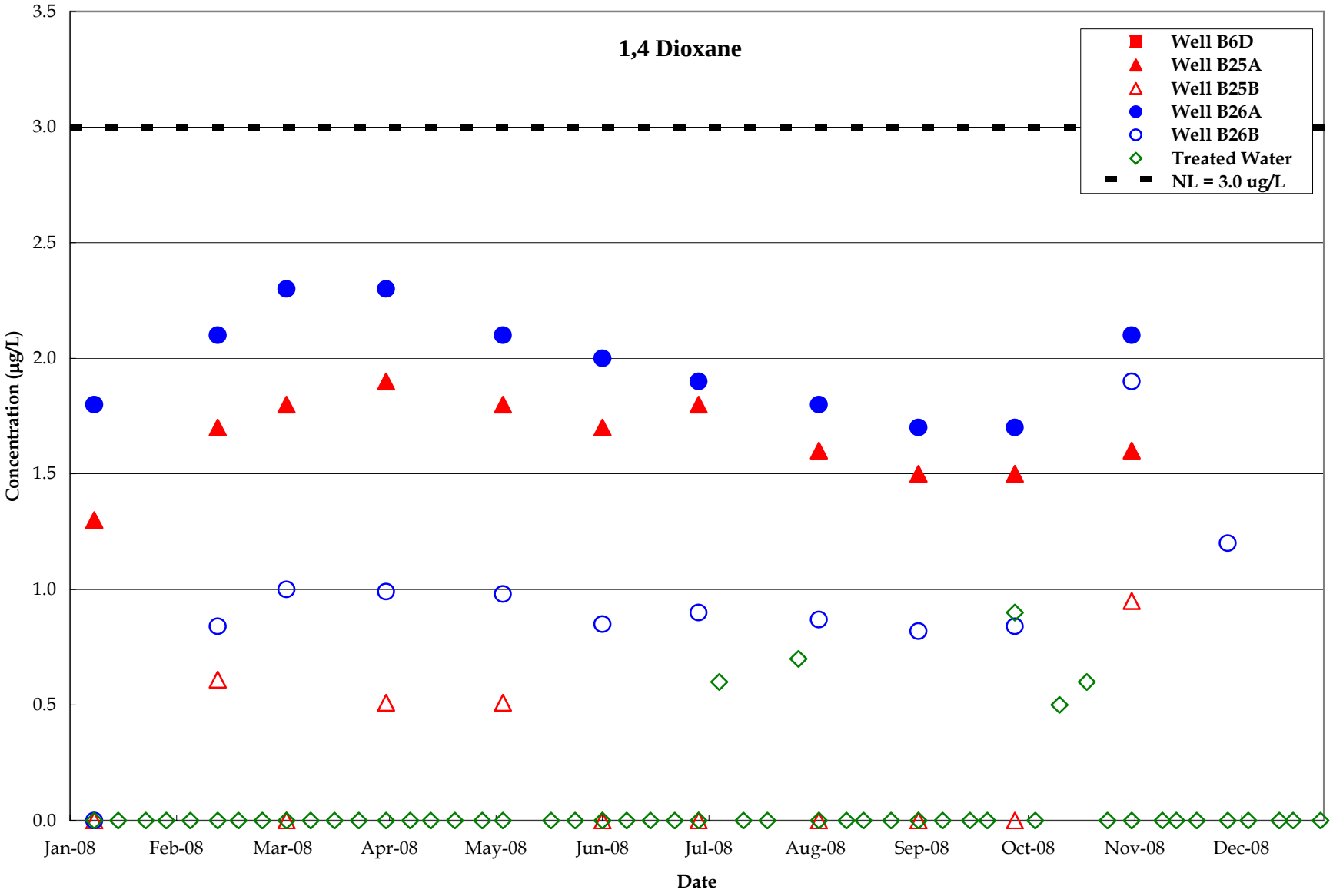


ERM

1,2-DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-26



ERM

1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
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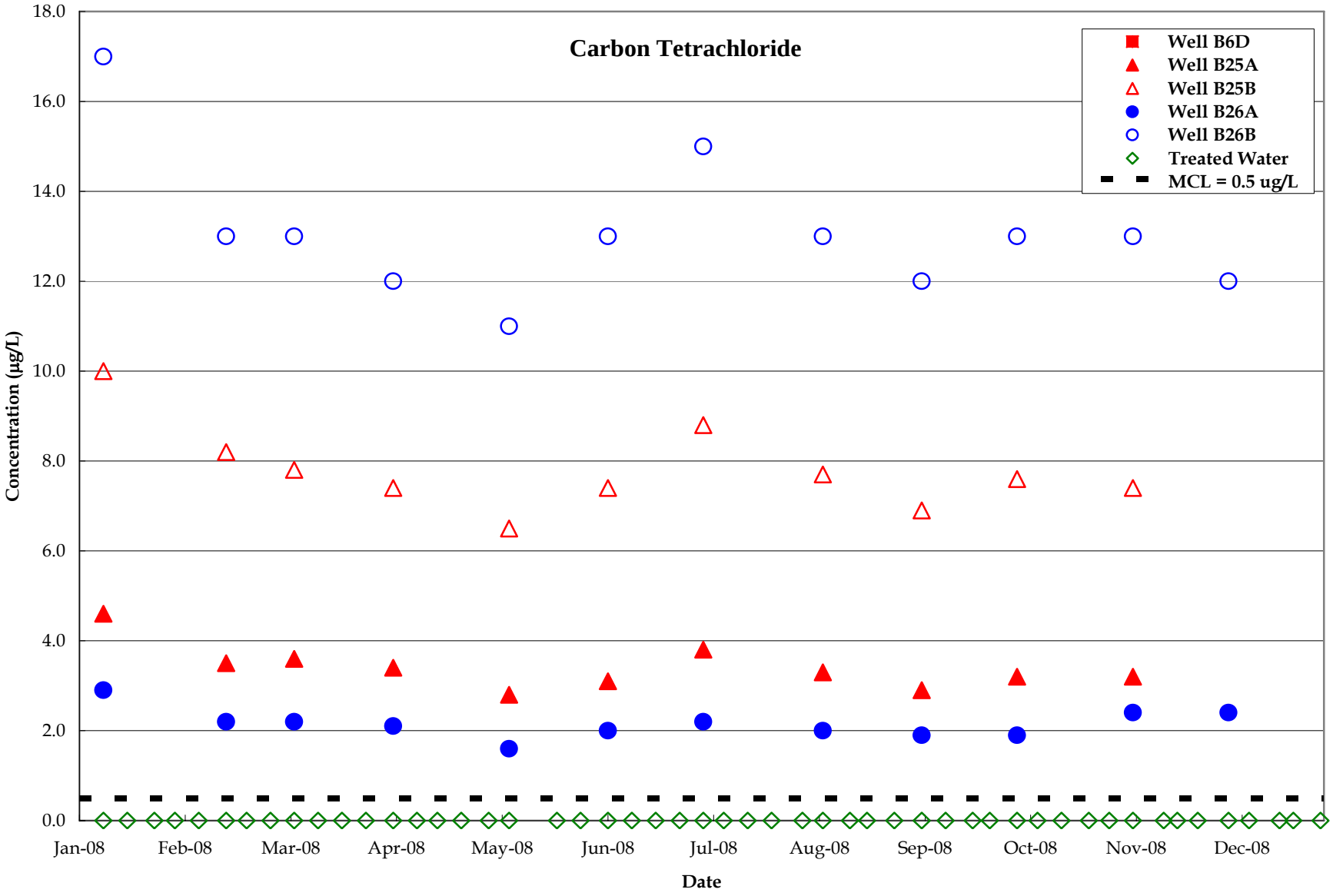
Figure
6-27



ERM

CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
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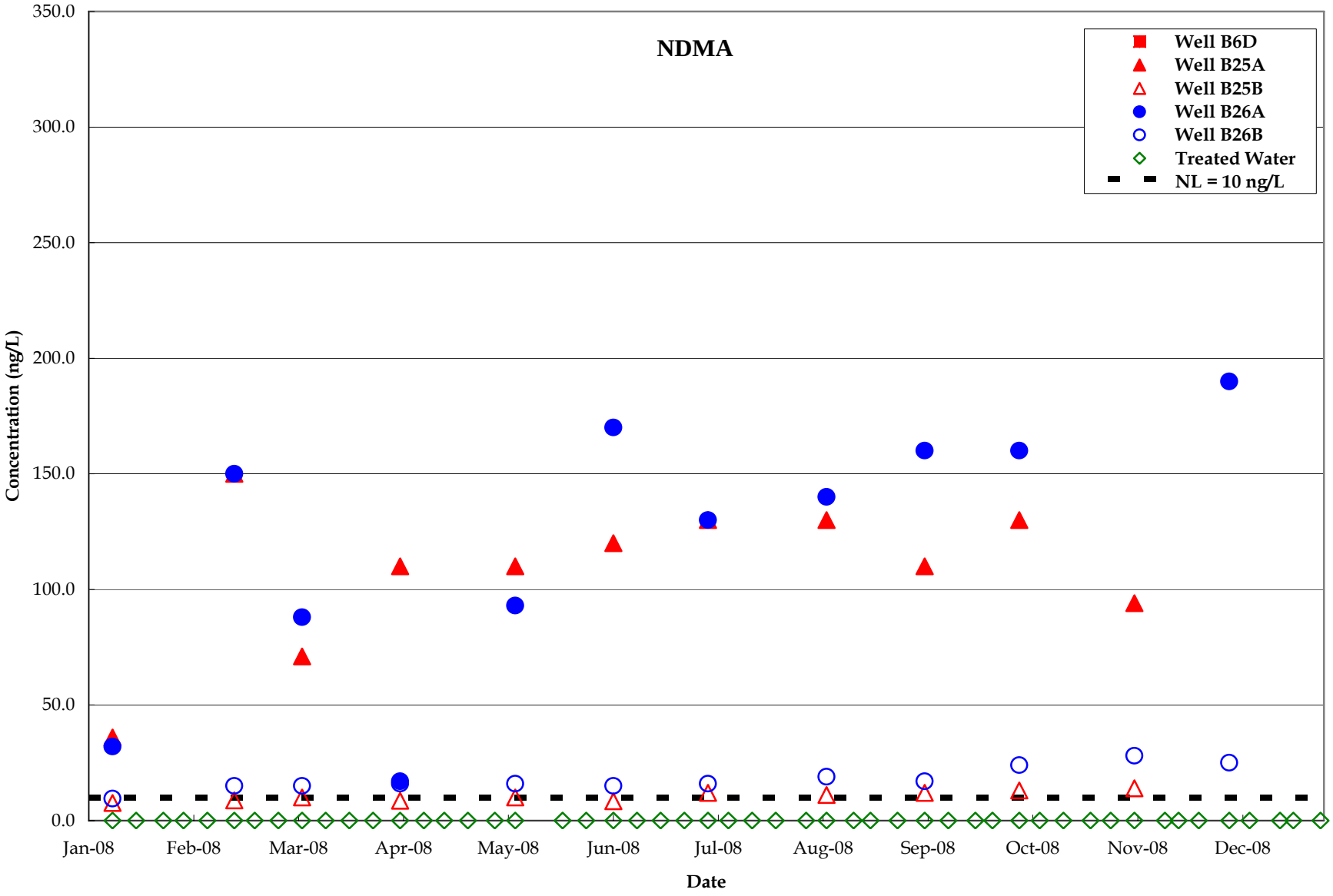
Figure
6-28

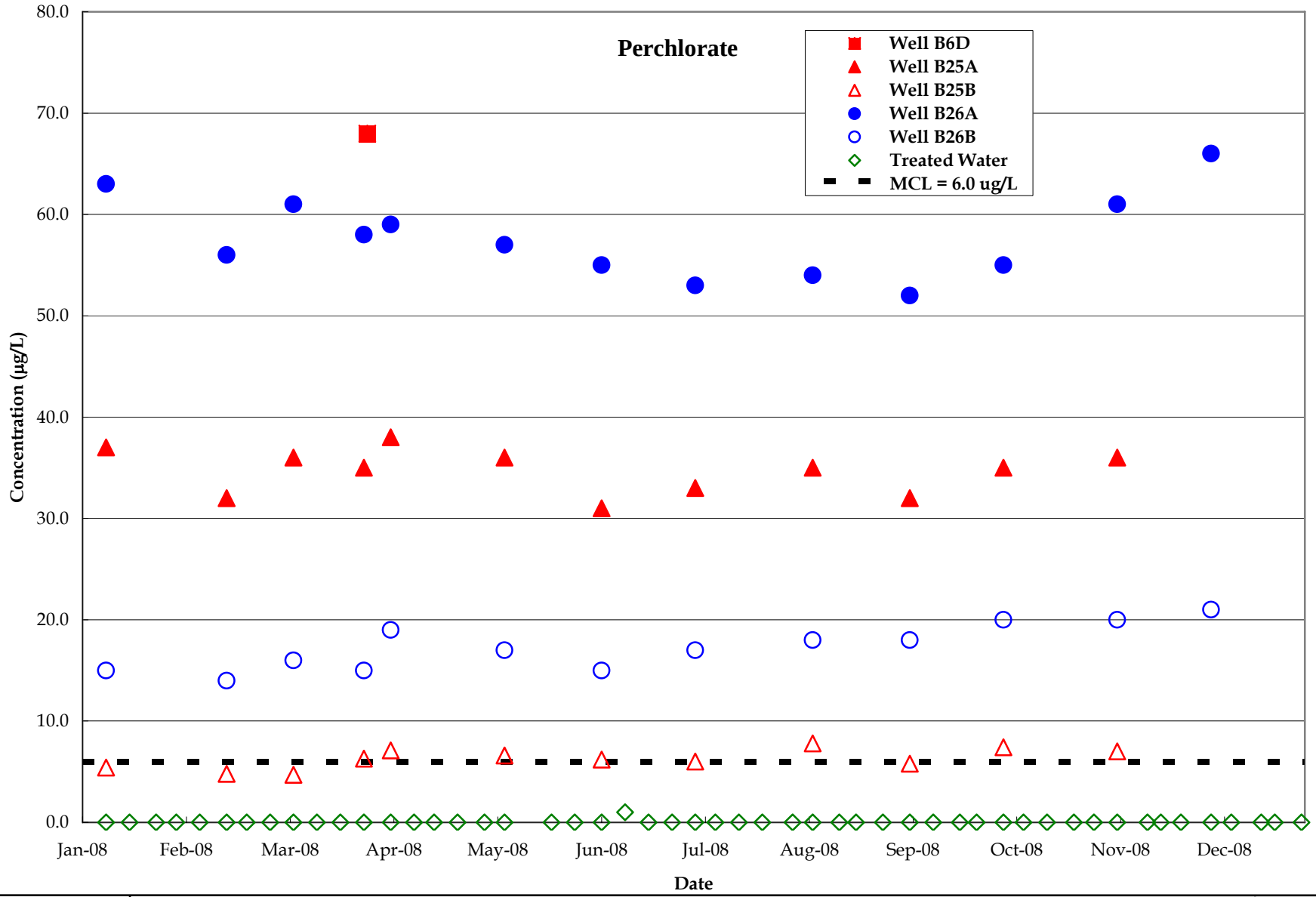


ERM

N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-29

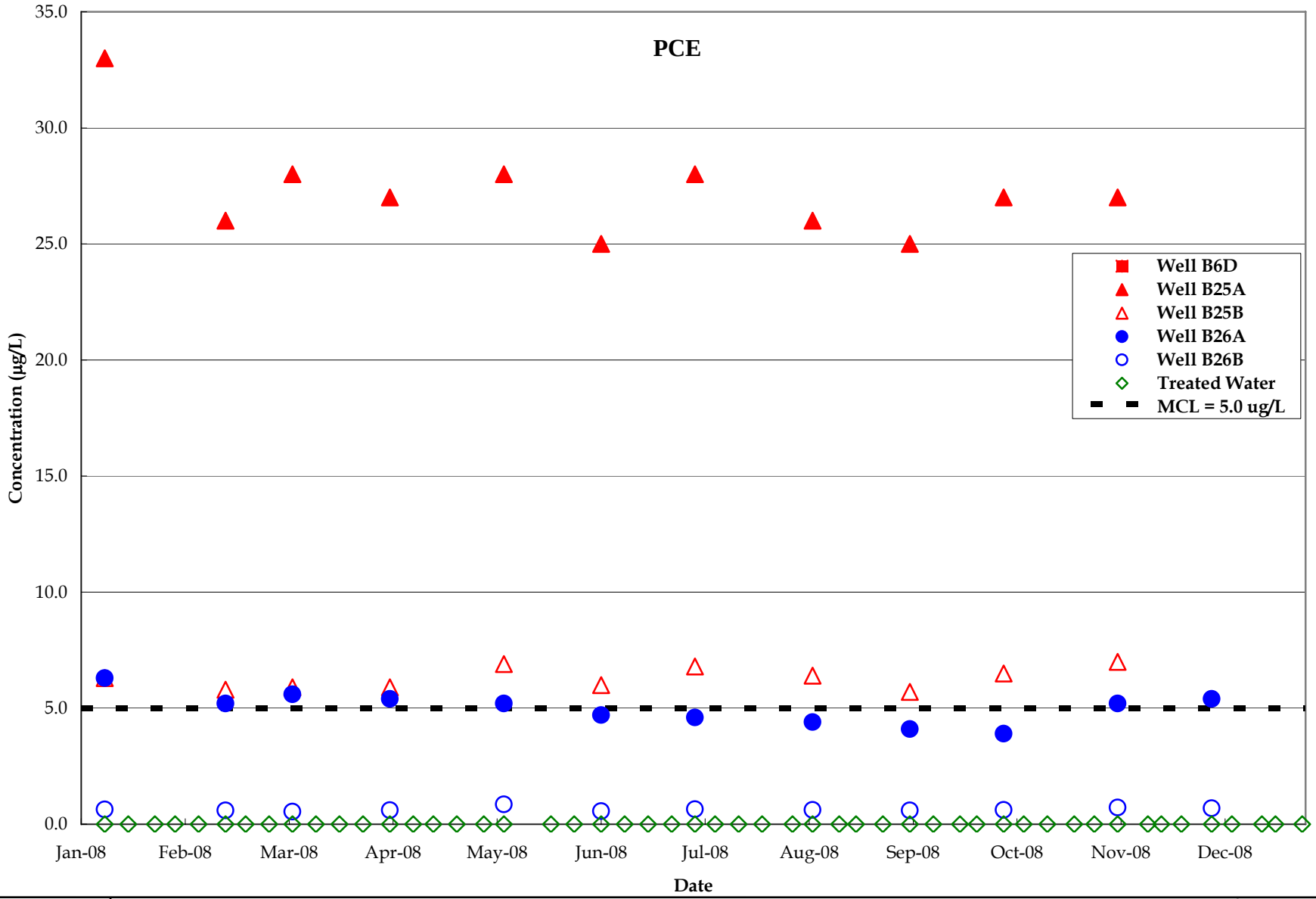


ERM

PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-30

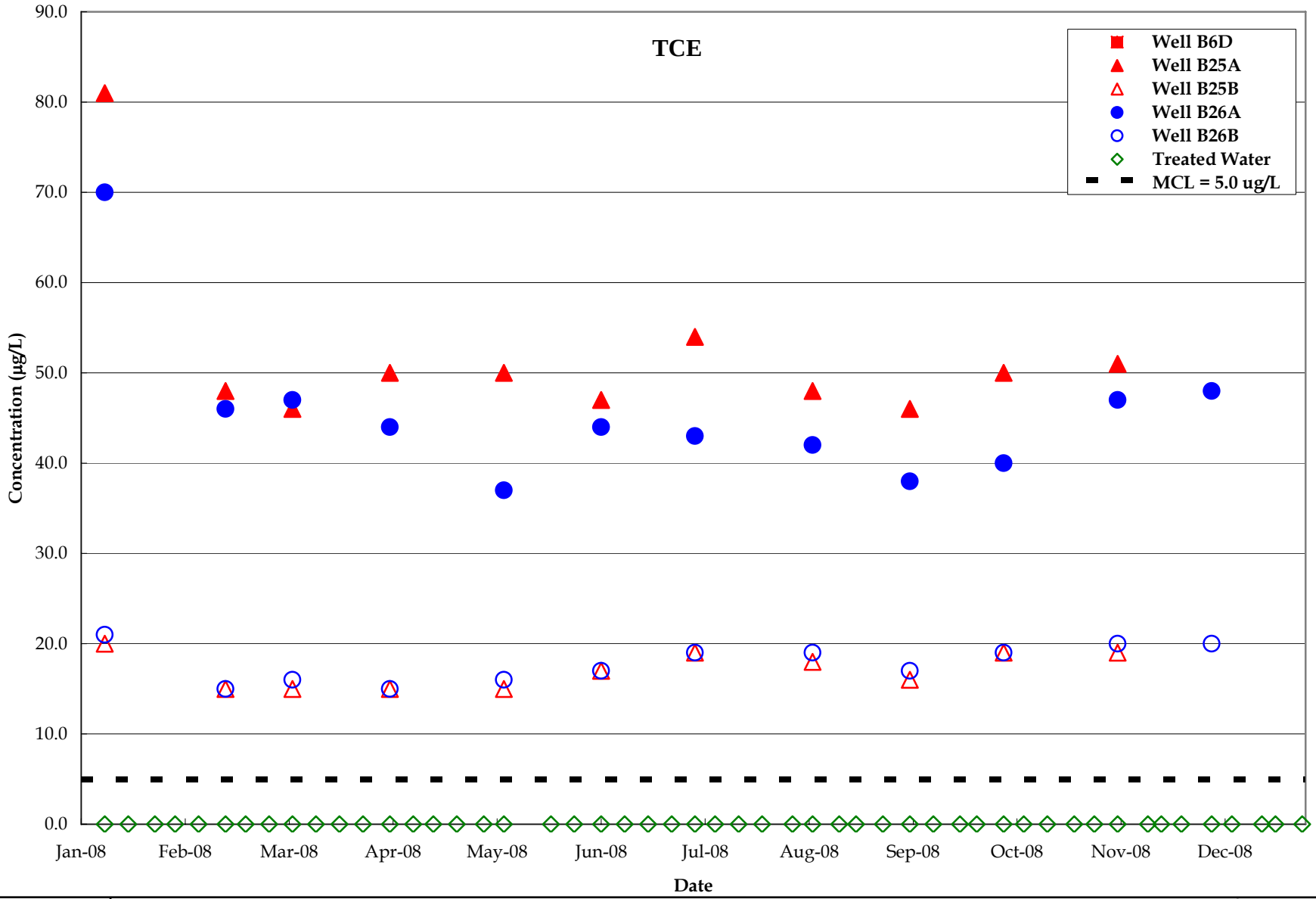


ERM

TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-31

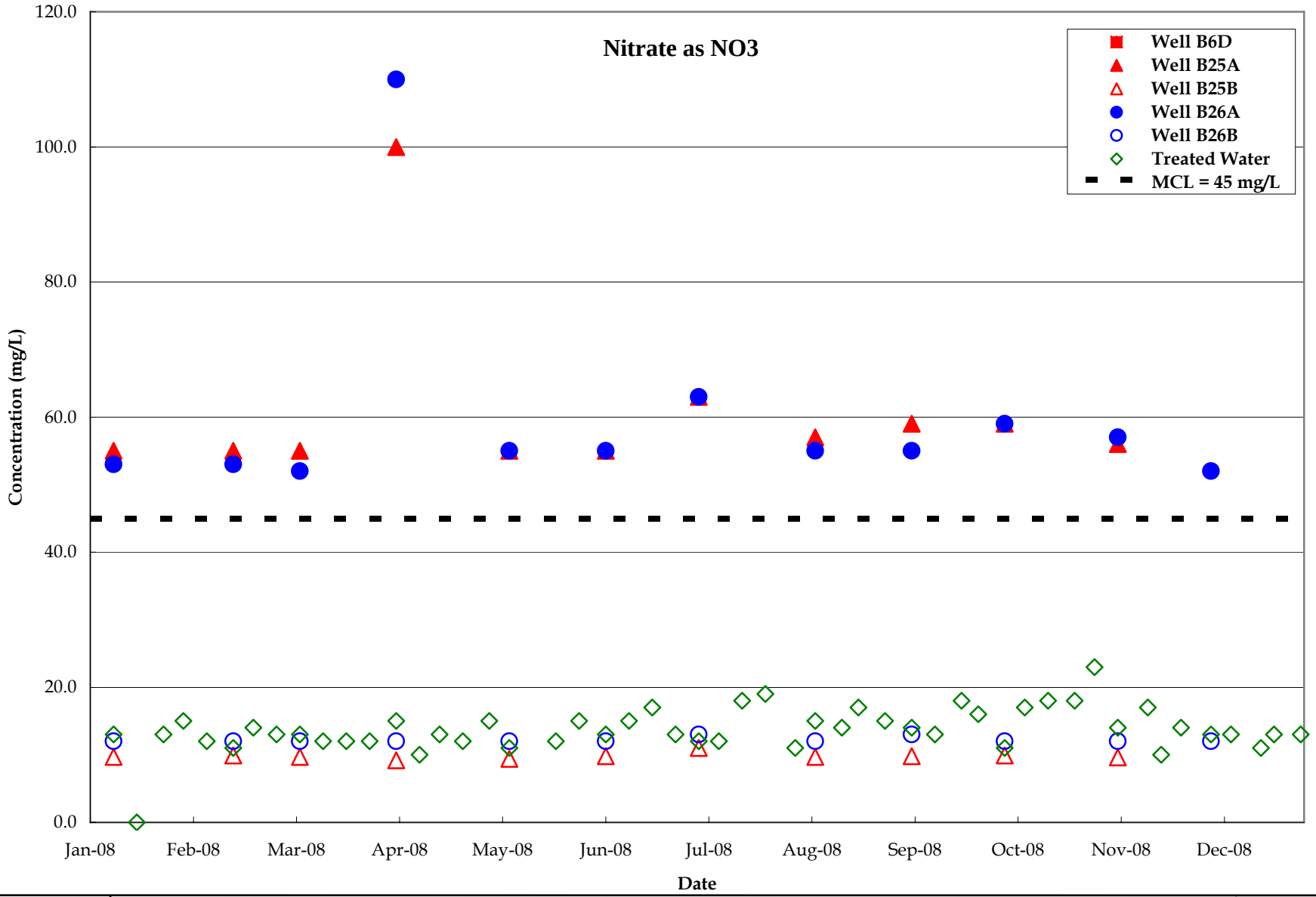


ERM

TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-32

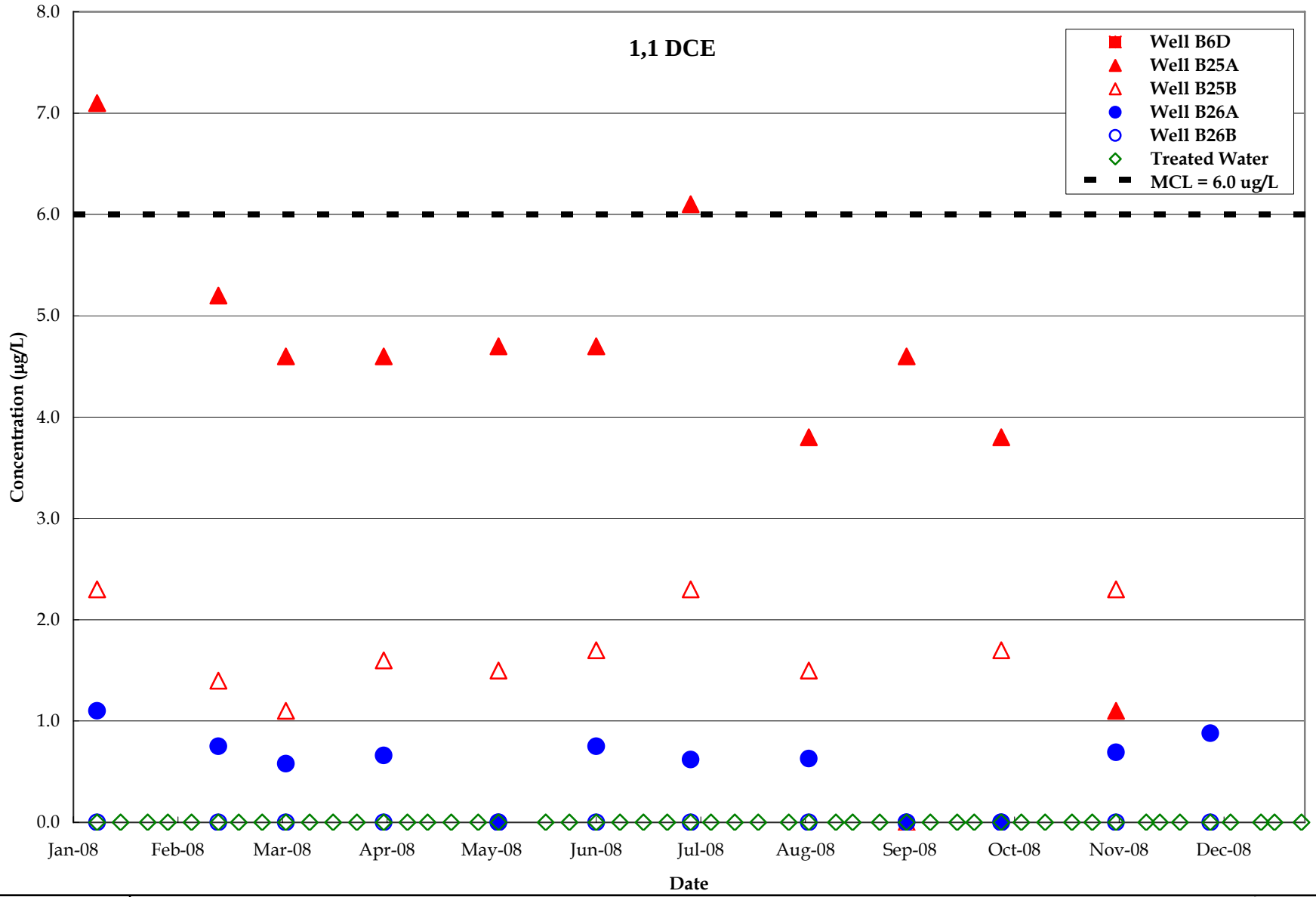


ERM

NITRATE (NO3) CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-33



ERM

1,1-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
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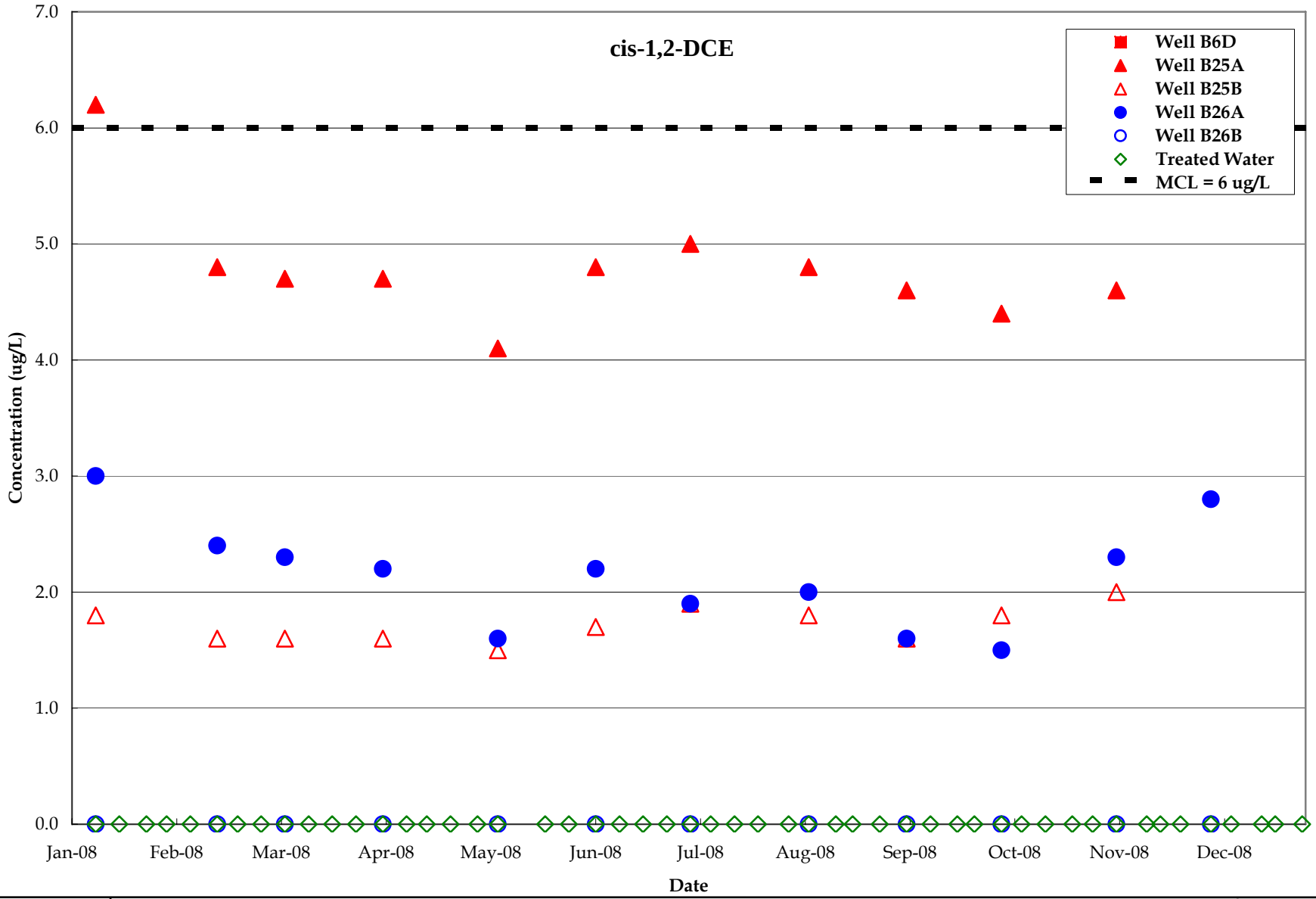
Figure
6-34



ERM

CIS-1,2-DICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

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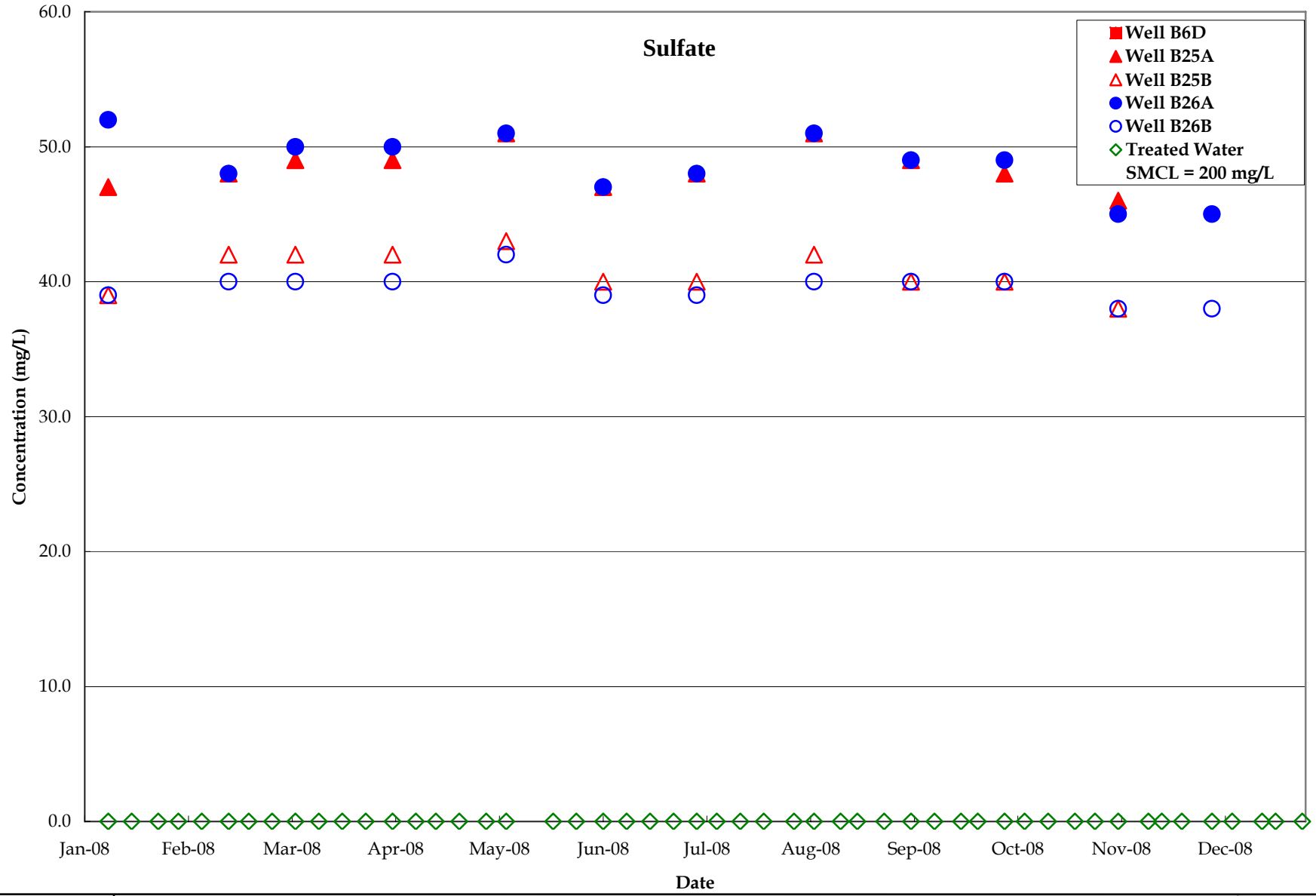
Figure
6-35

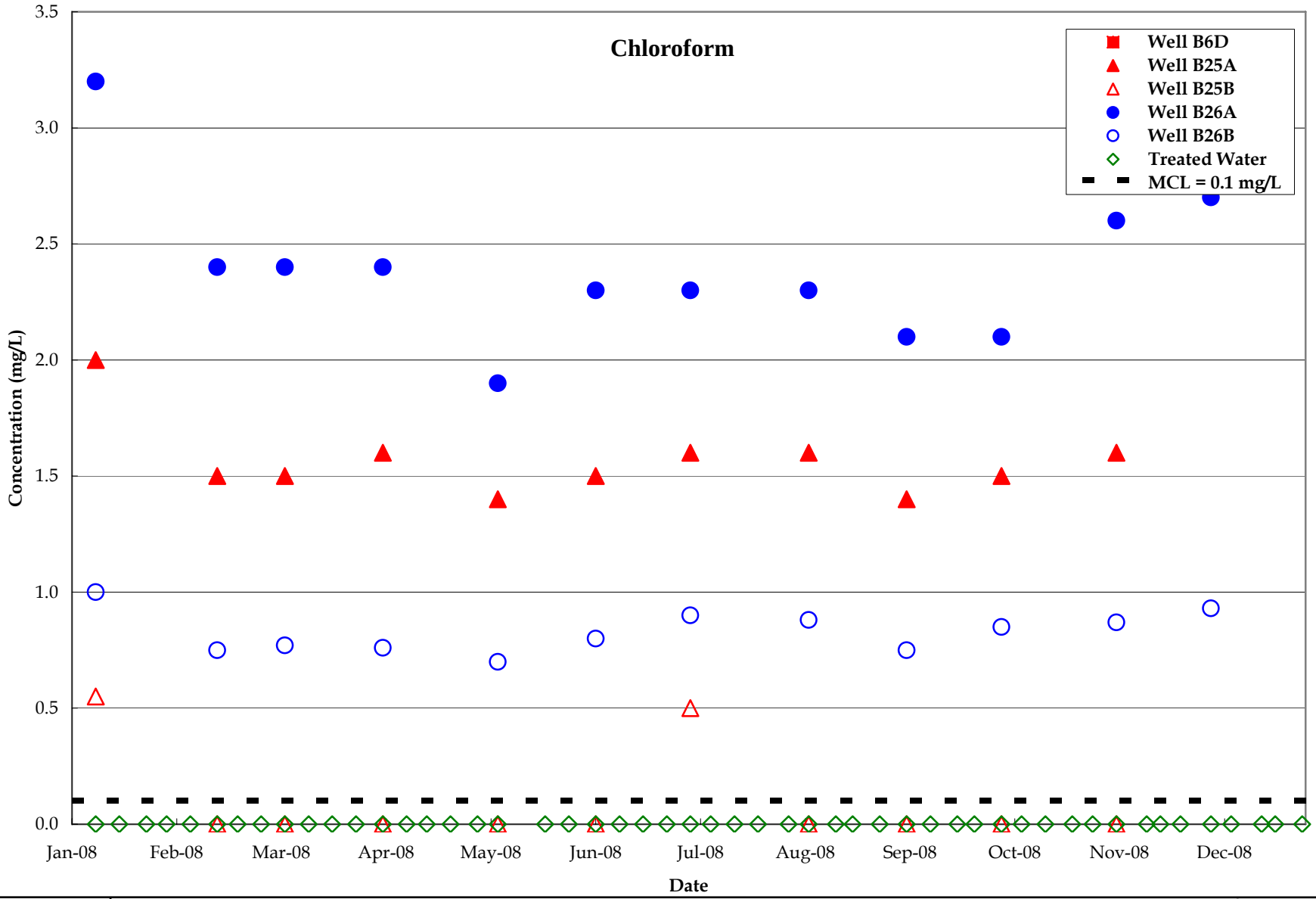


ERM

SULFATE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-36

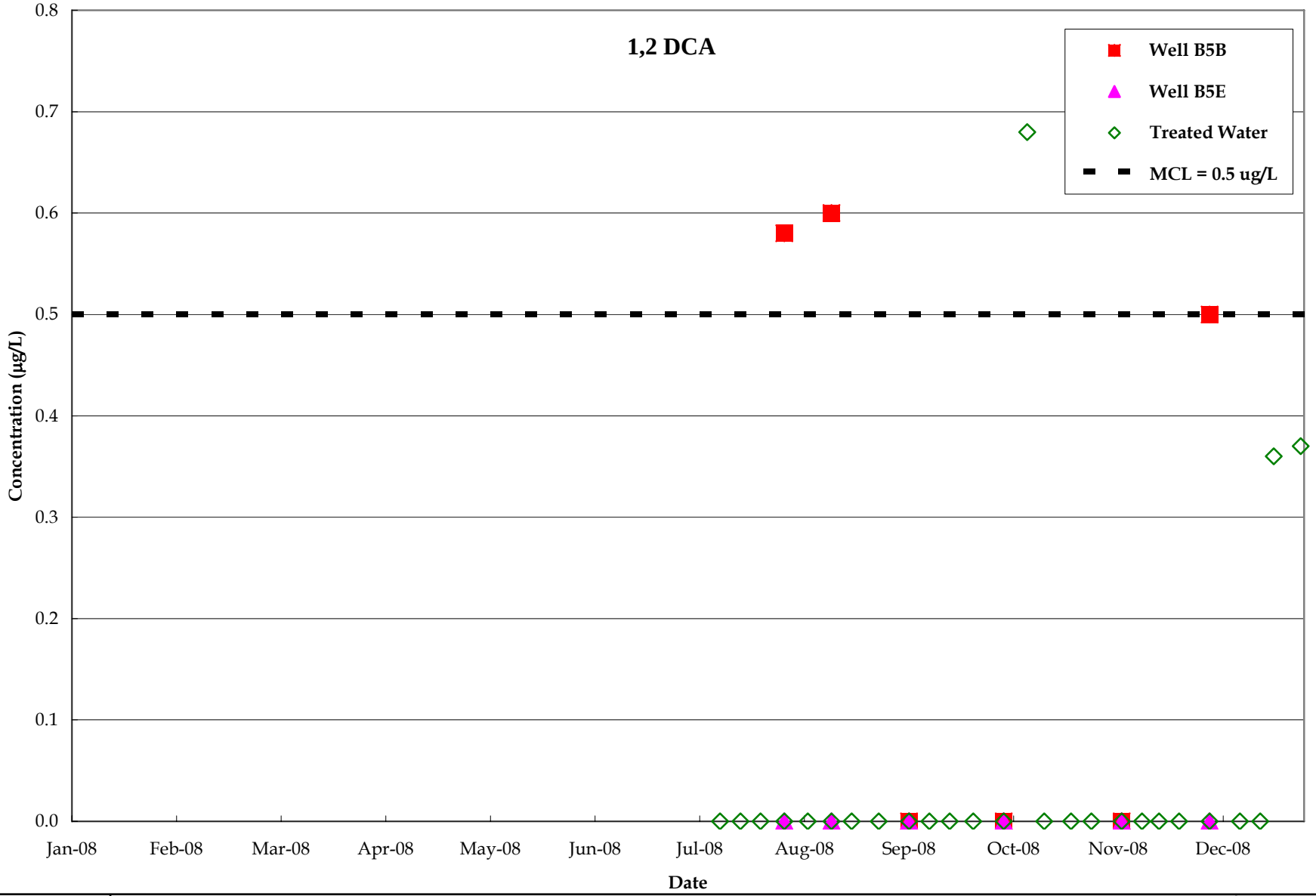


ERM

CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B6 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-37

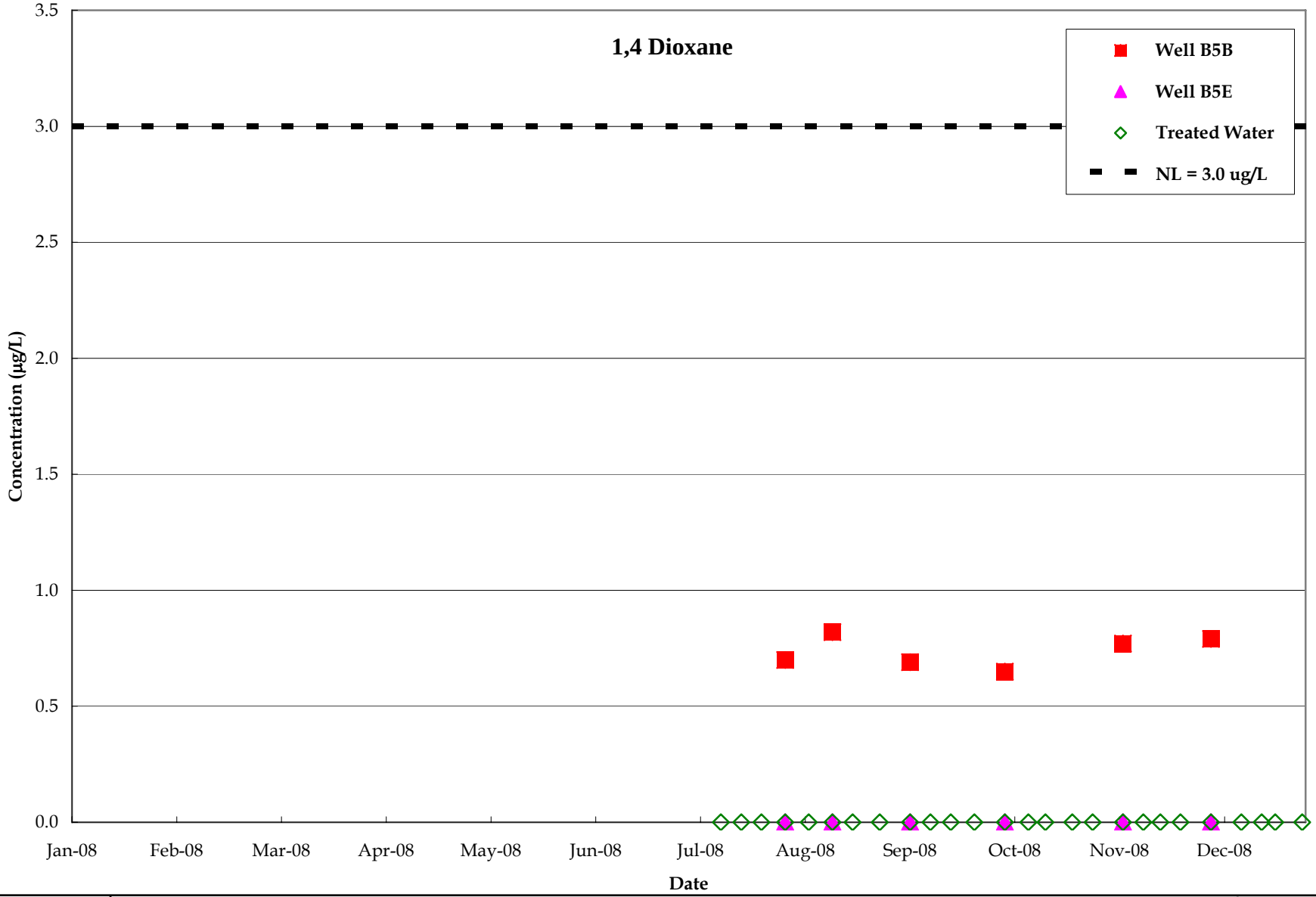


ERM

1,2 DICHLOROETHANE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-38

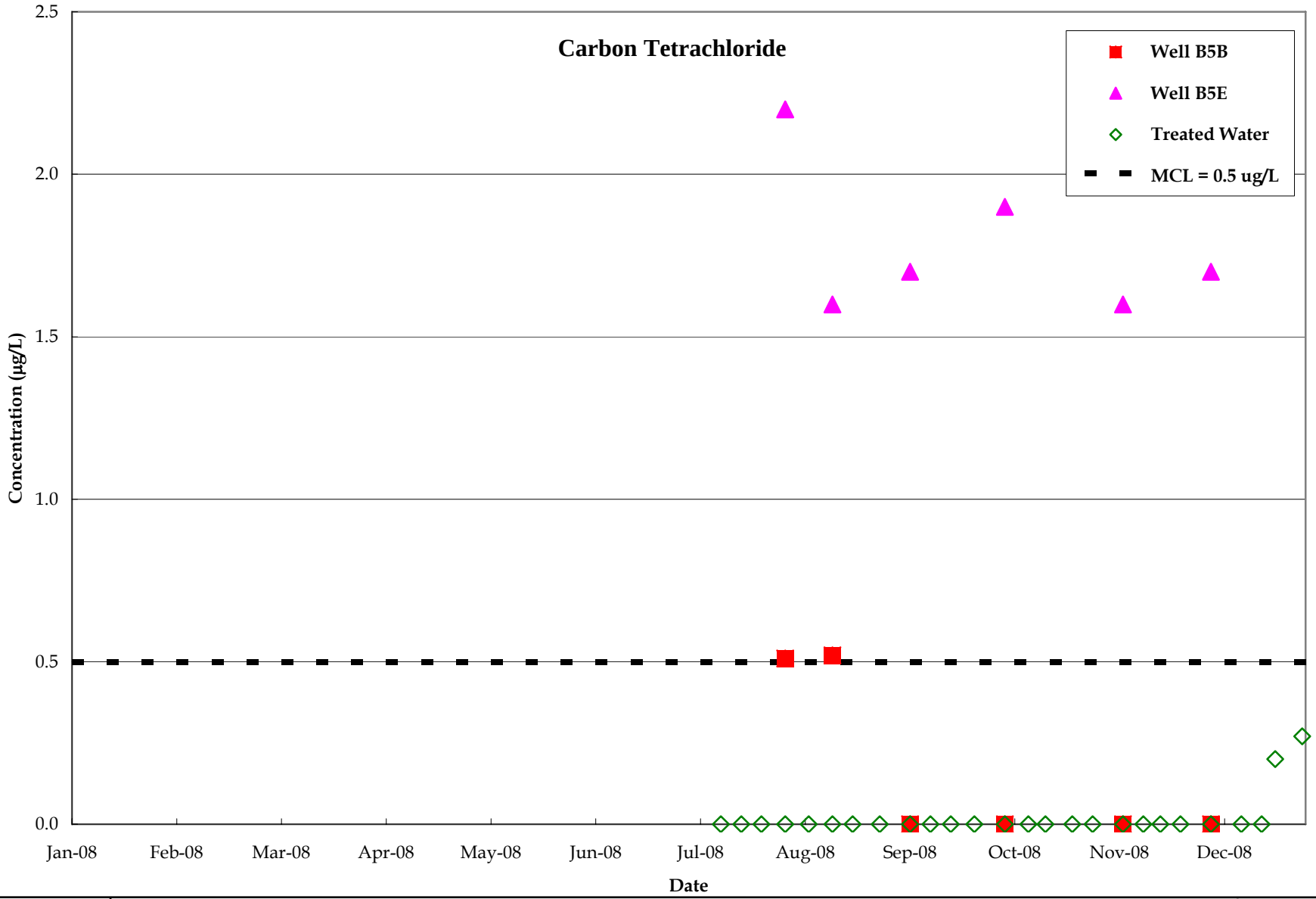


ERM

1,4-DIOXANE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-39

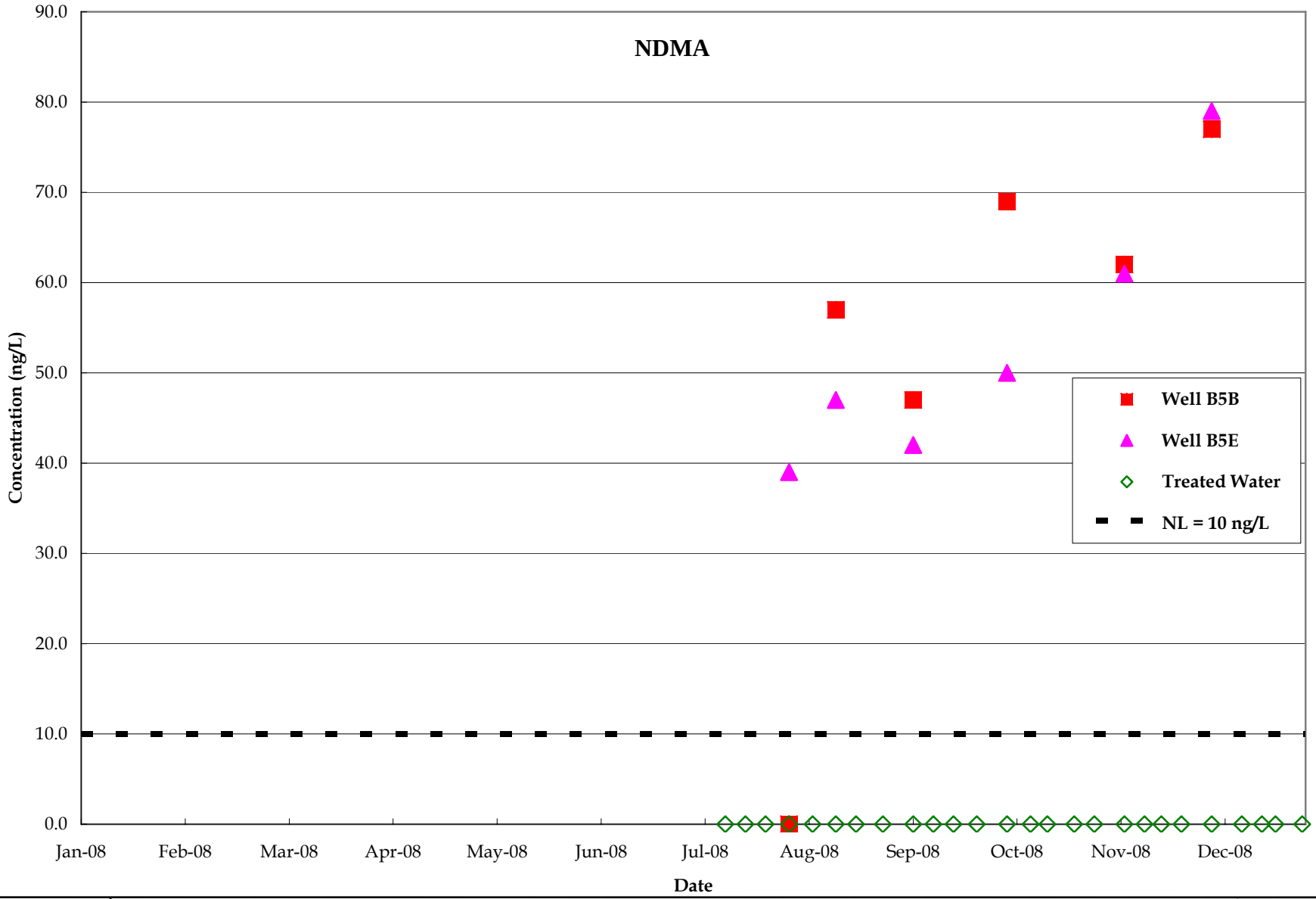


ERM

CARBON TETRACHLORIDE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-40

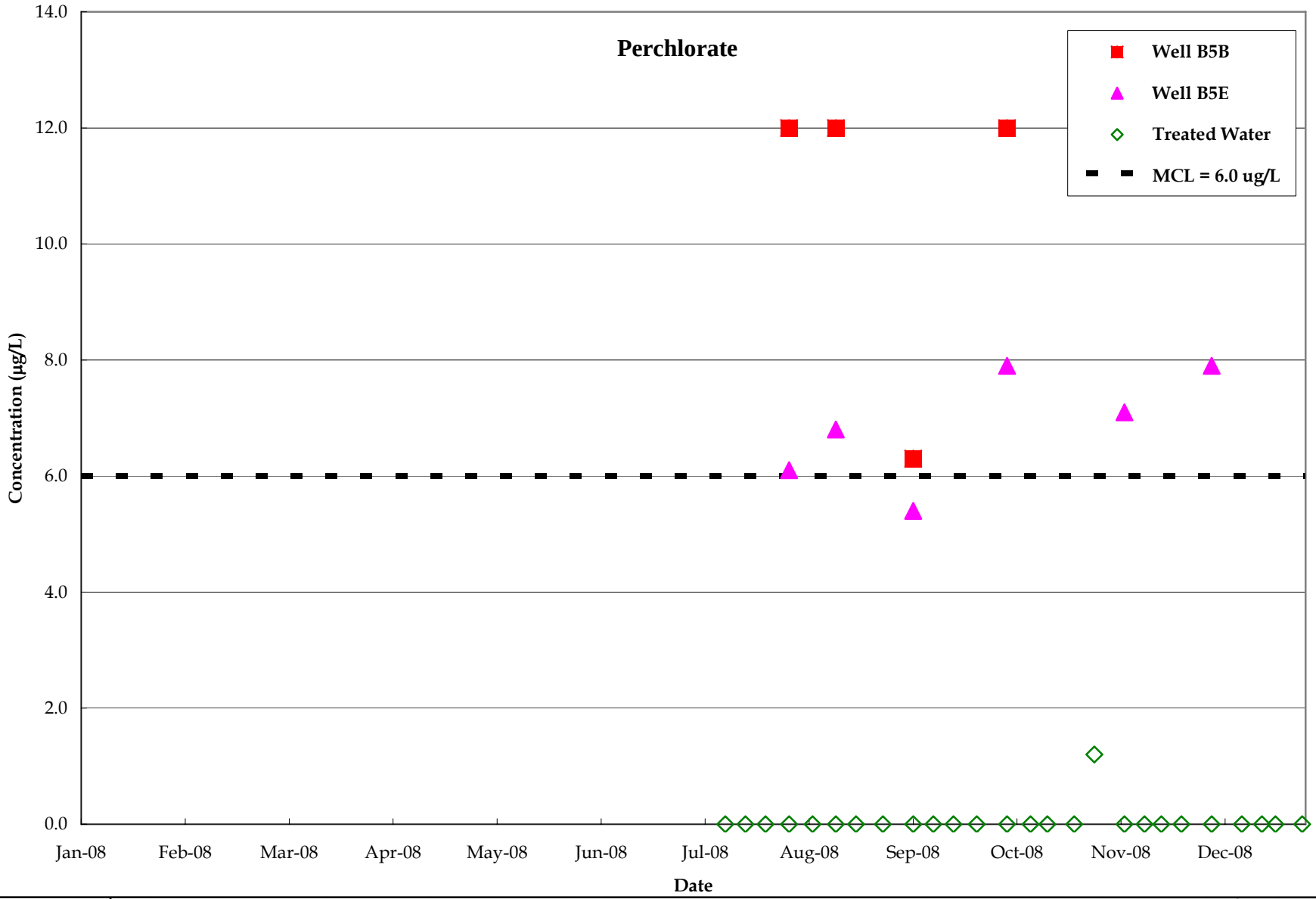


ERM

N-NITROSODIMETHYLAMINE CONCENTRATIONS, RAW AND TREATED WATER FOR SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-41

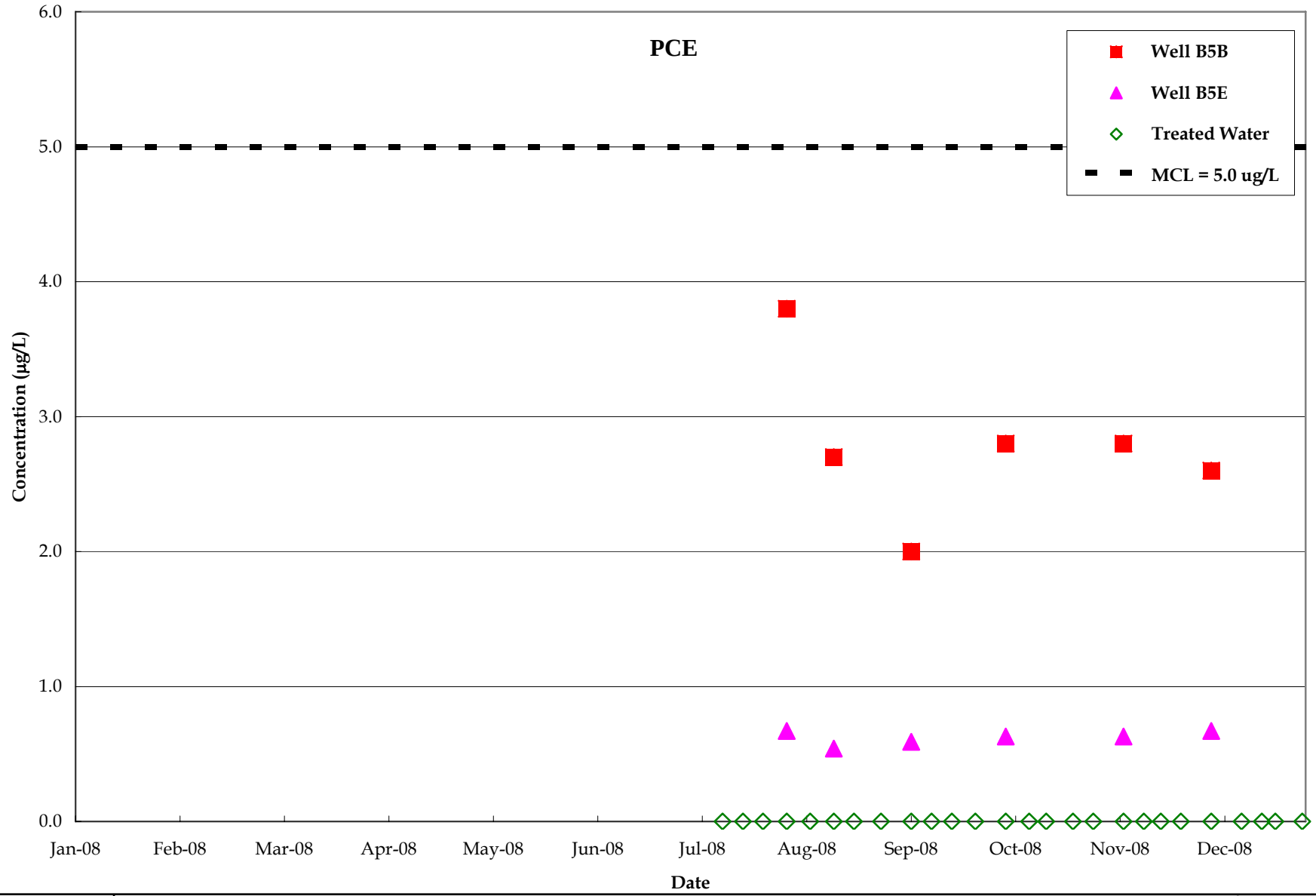


ERM

PERCHLORATE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-42

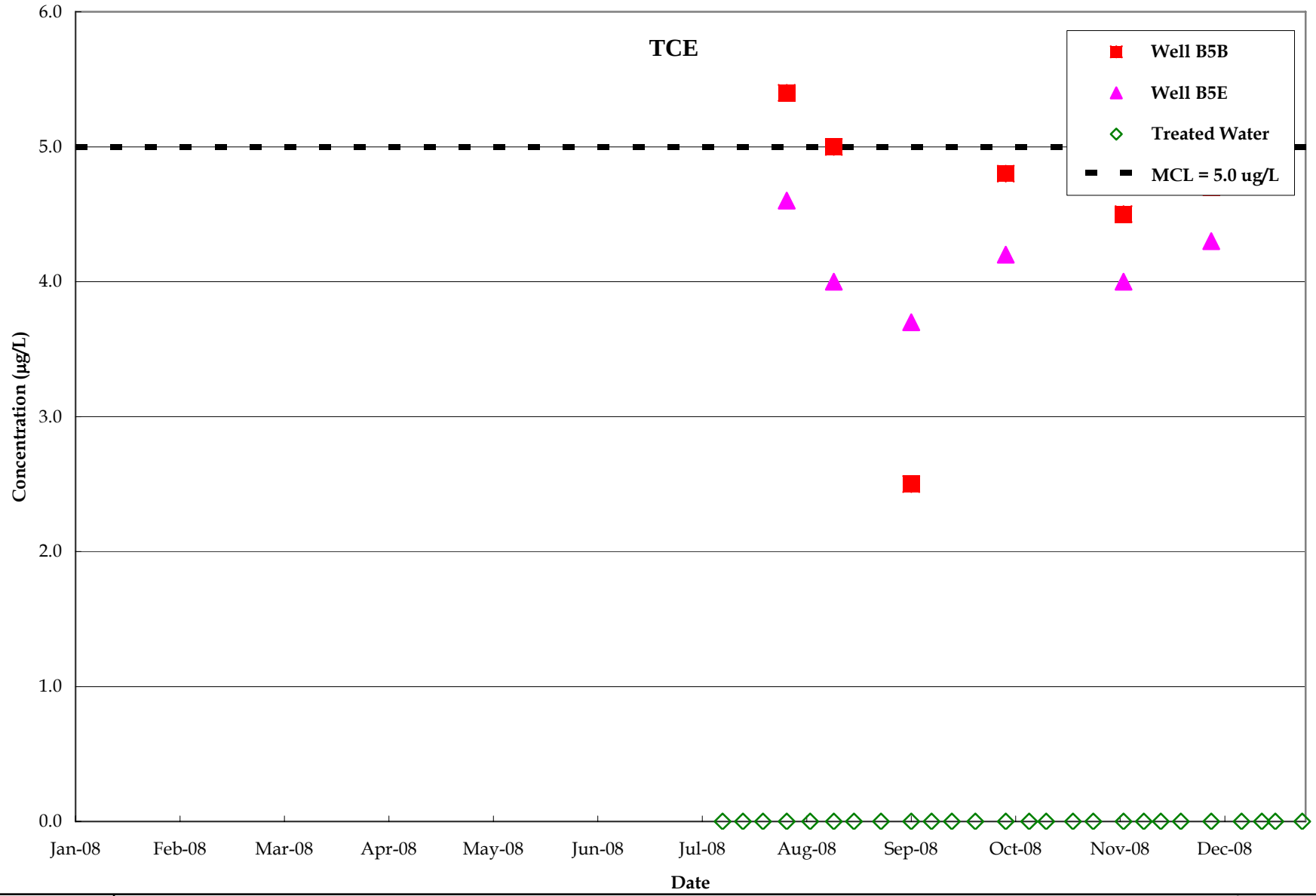


ERM

TETRACHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-43

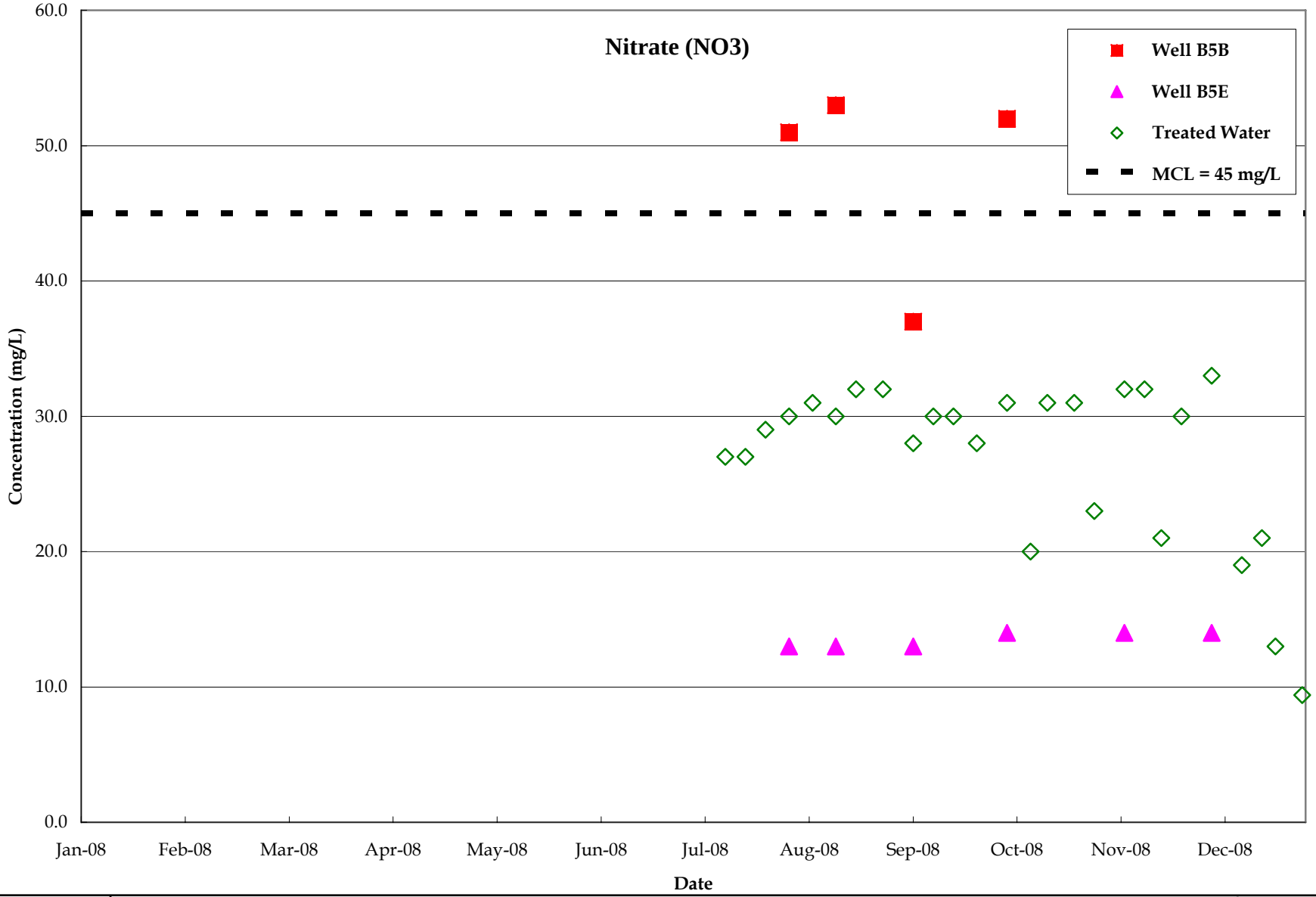


ERM

TRICHLOROETHENE CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-44

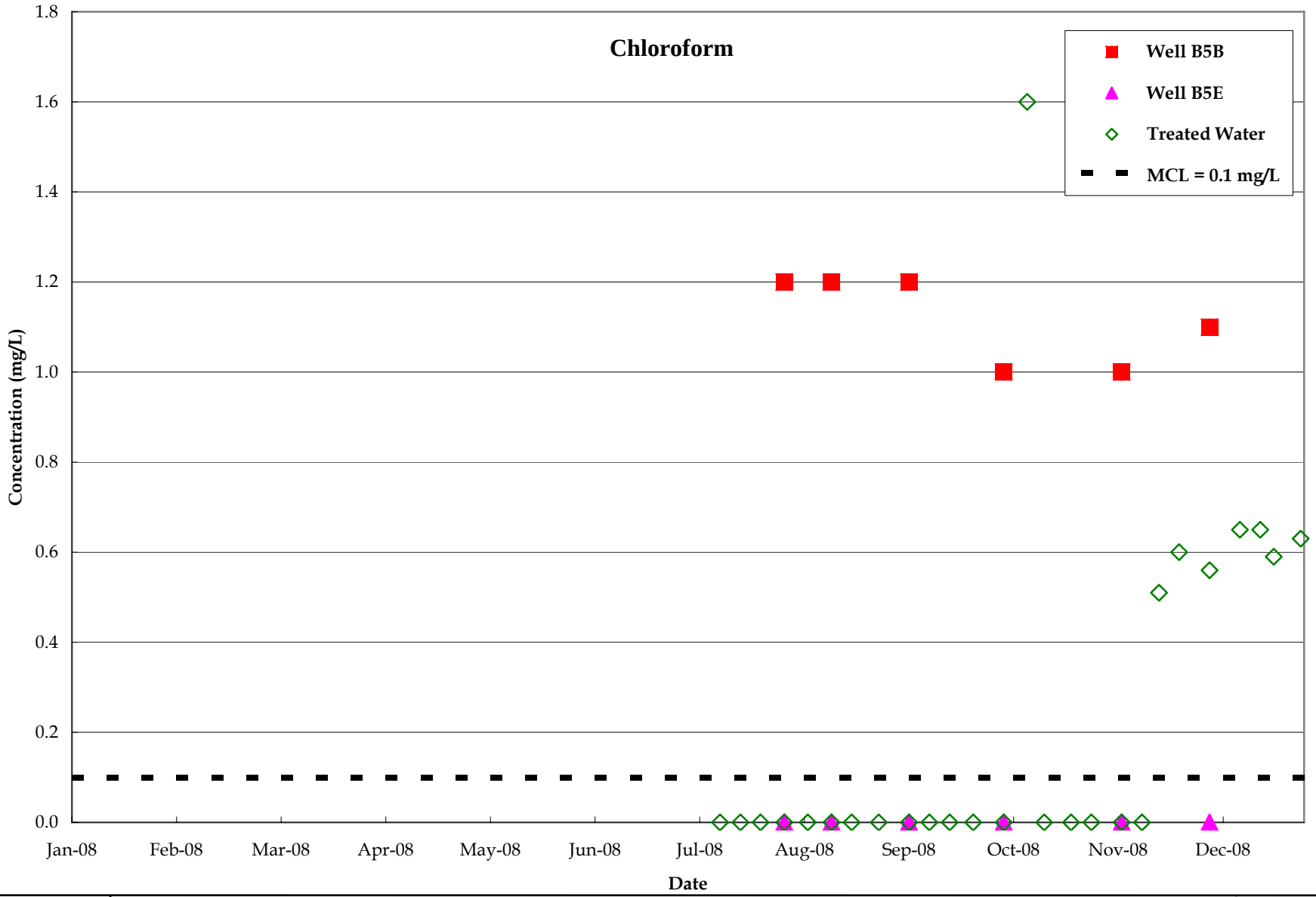


ERM

NITRATE (NO3) CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
6-45



ERM

CHLOROFORM CONCENTRATIONS, RAW AND TREATED WATER FOR
SAN GABRIEL VALLEY WATER COMPANY B5 TREATMENT PLANT (2008)
Baldwin Park Operable Unit
San Gabriel Valley, California

Project No.
7190

Figure
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