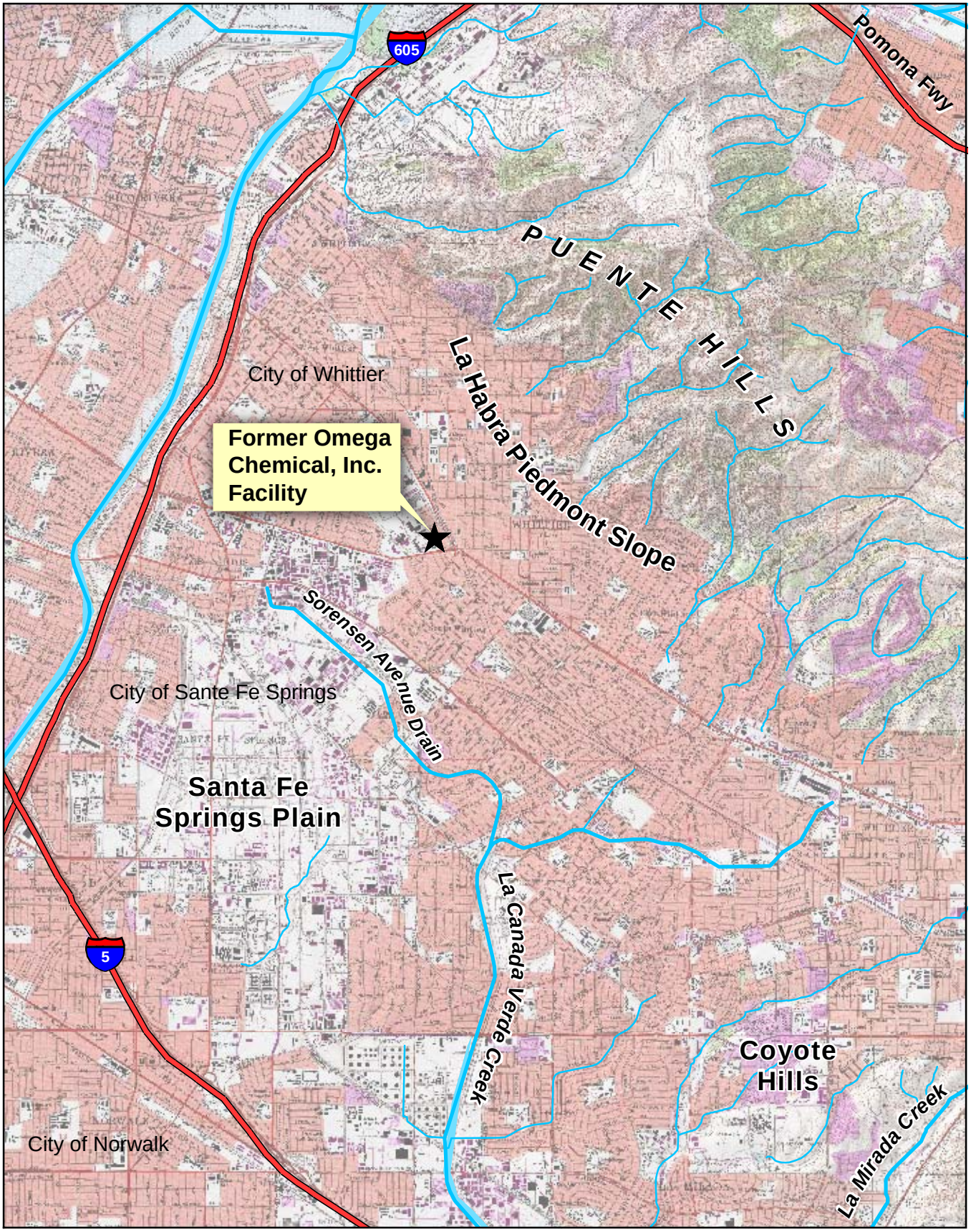


N

0.5 0 0.5

Miles

Figure 1-1
Facility Location Map
Omega Chemical Superfund Site

CH2MHILL

ES062006002SCO335392.RR.01 EPA_Omega_SiteLoc.ai 05/08

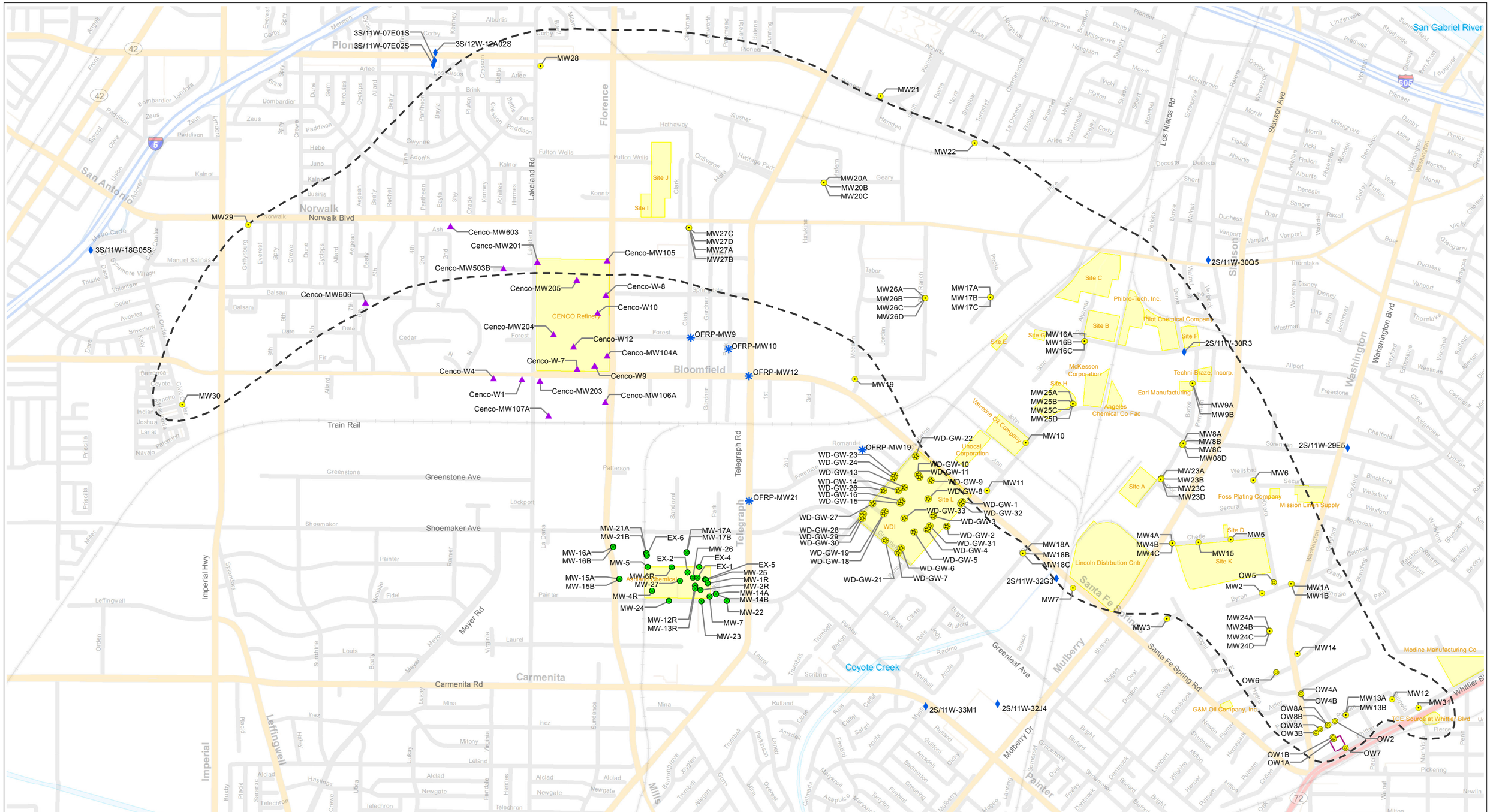


Figure 1-2
Monitoring Well Locations
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_Well_Locations.mxd

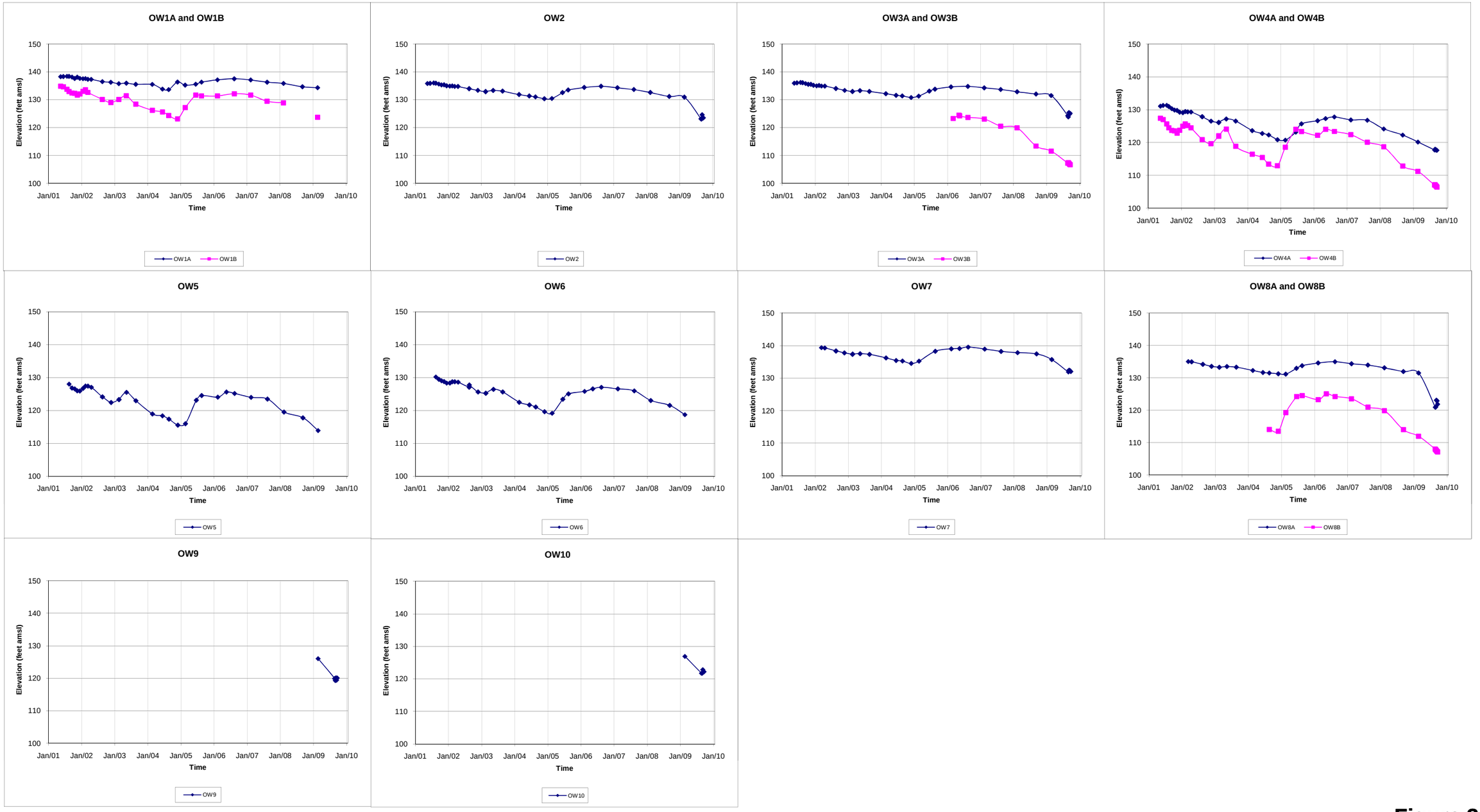


Figure 3-1a
Well Hydrographs
Omega Chemical

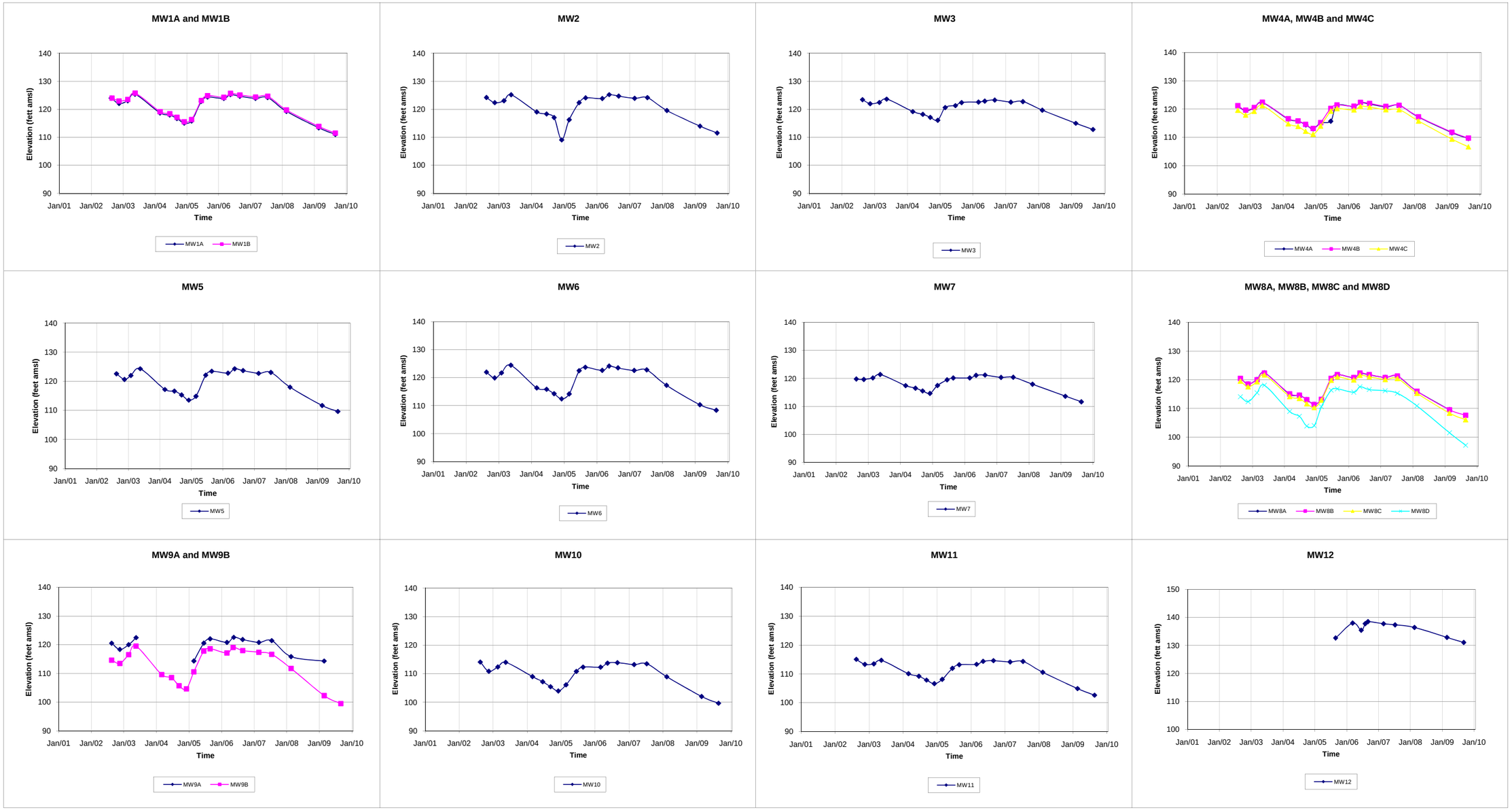


Figure 3-1b
Well Hydrographs
Omega Chemical

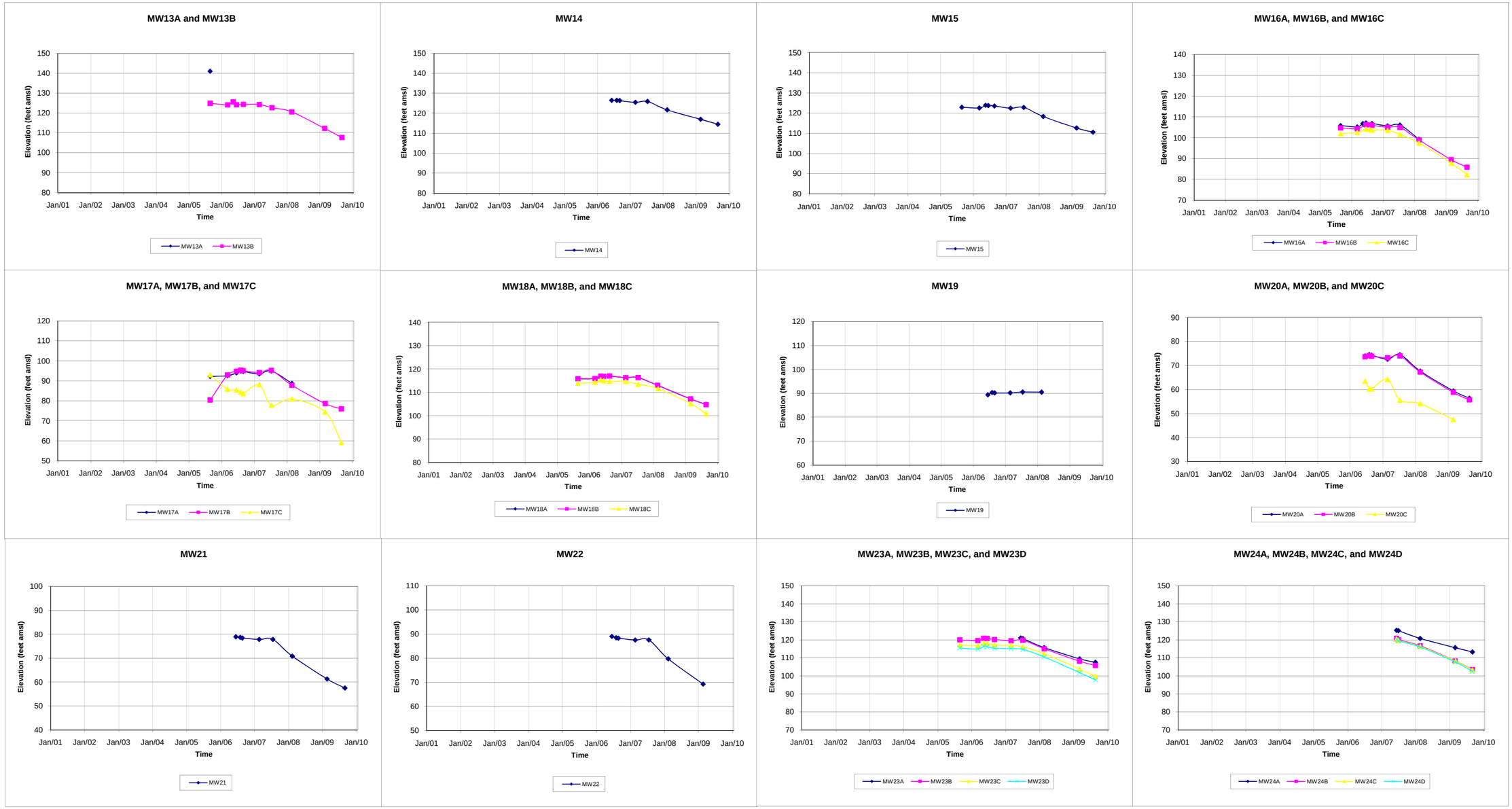


Figure 3-1c
Well Hydrographs
Omega Chemical

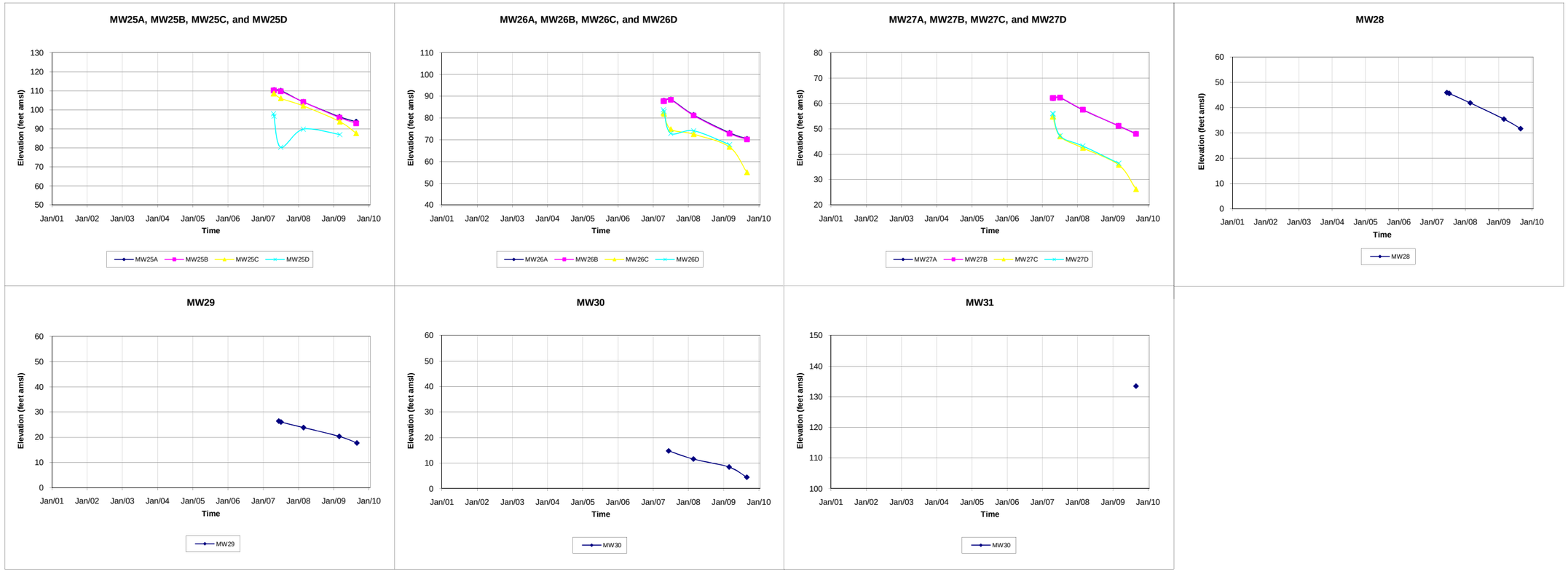
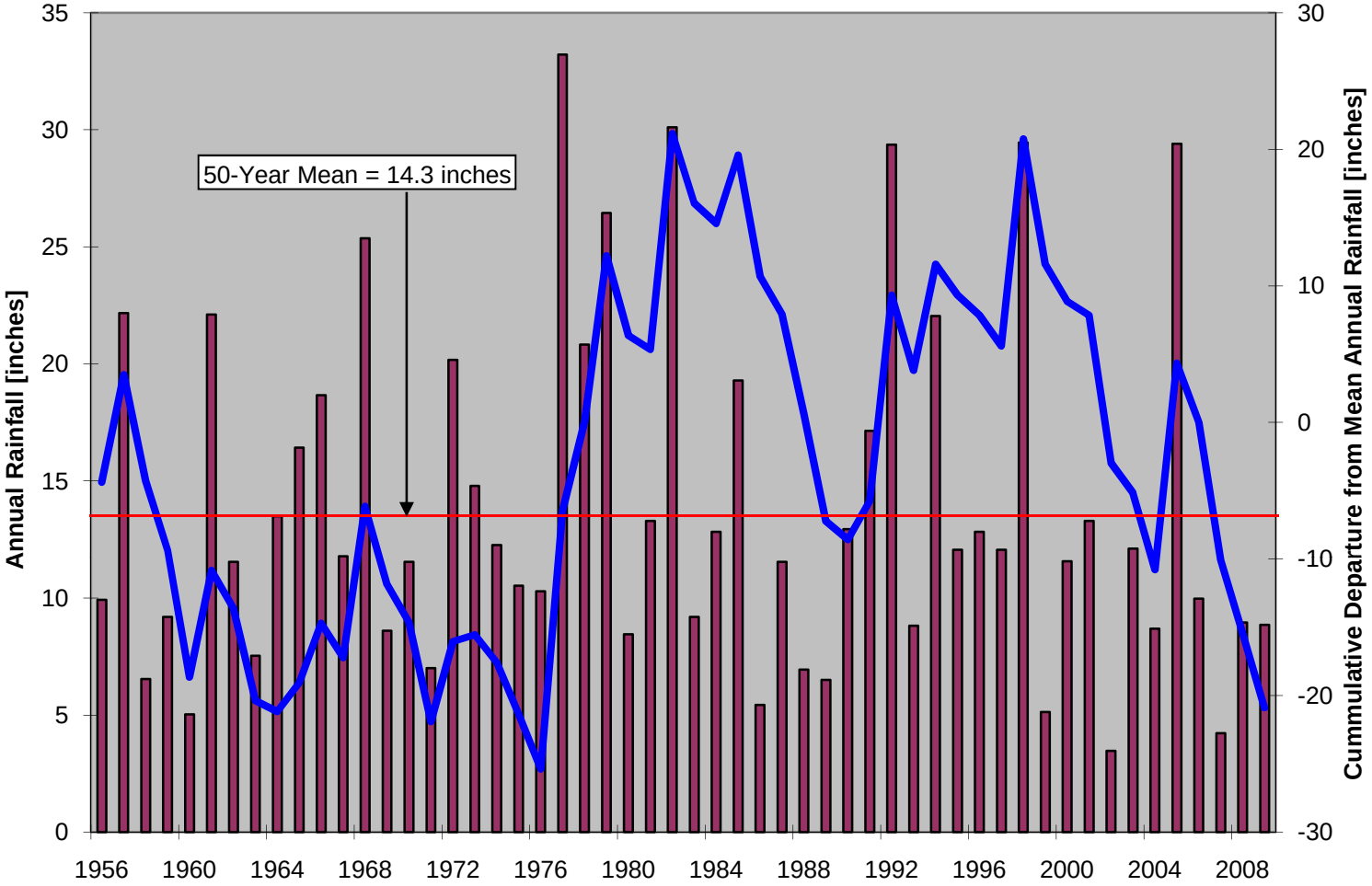
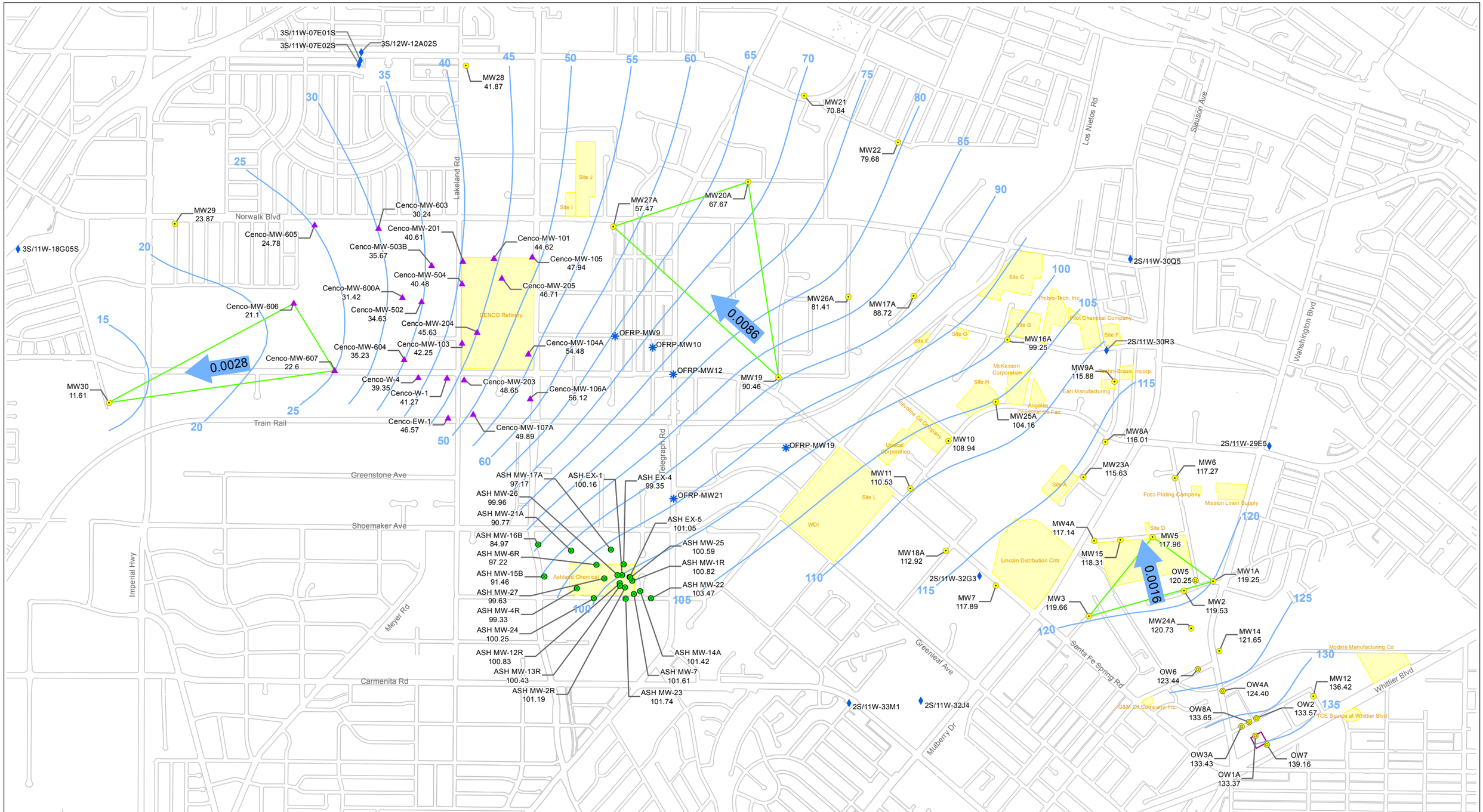


Figure 3-1d
Well Hydrographs
Omega Chemical

Figure 3-2
City of Whittier Annual Rainfall Totals
Omega Chemical Superfund Site



Note: Annual rainfall data from rain gage 106F - City of Whittier Storage Yard.



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Oil Field Reclamation Project(OFRP)
- Production Well
- Water Level Contour 1st Quarter 2008
- Approximate Boudary of Facilities
- Former Omega Facility

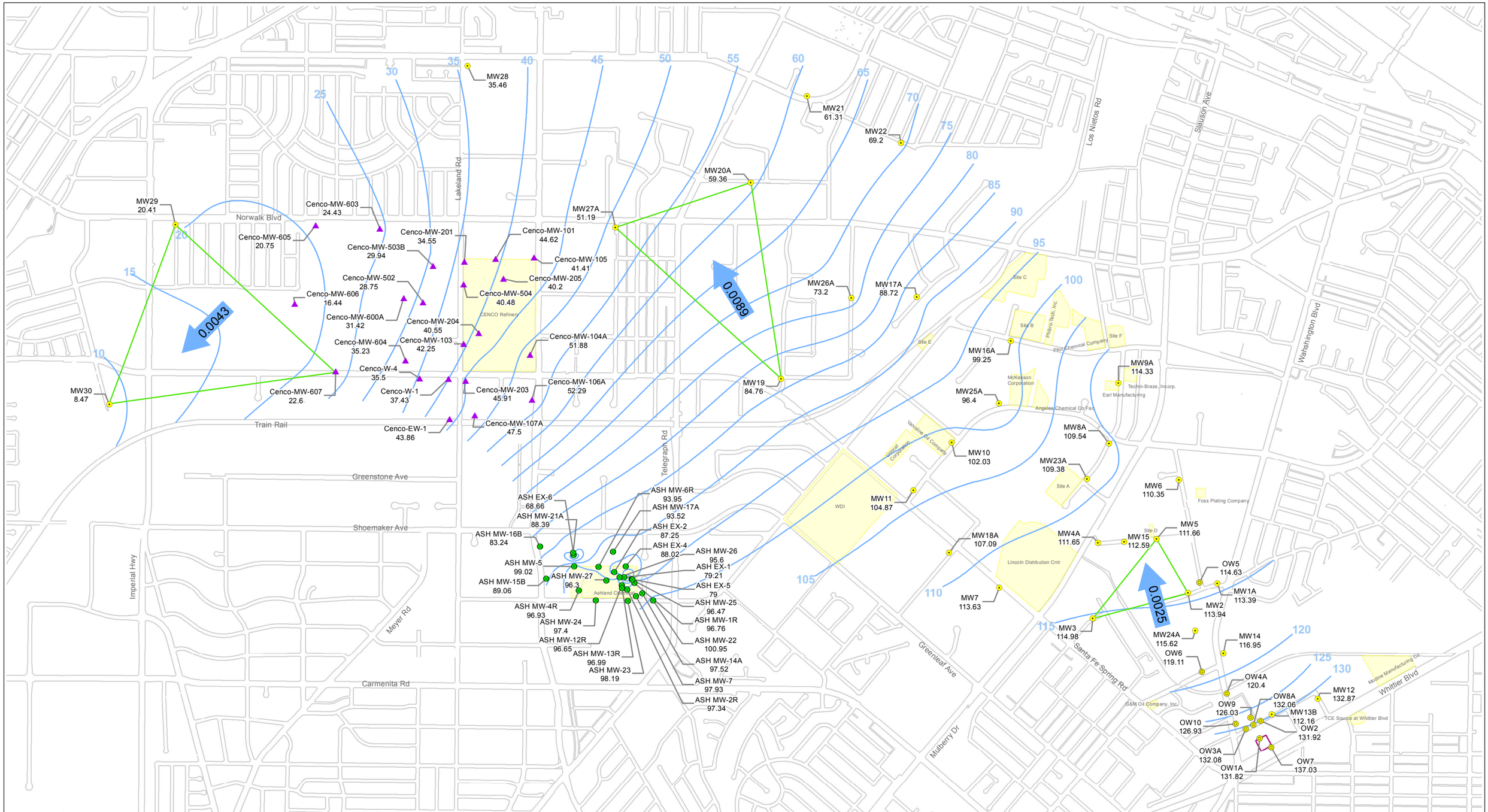
N

0 1000 2000 Feet

Figure 3-3
Water Table Contours, First Quarter 2008
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_WaterTableContours_NO13B.mxd



Legend

- EPA Monitoring Well (March 2009)
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well (March 2009)
- CENCO Well (1st Quarter, 2009)
- Ashland Chemical Well
- Oil Field Reclamation Project(OFRP)
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

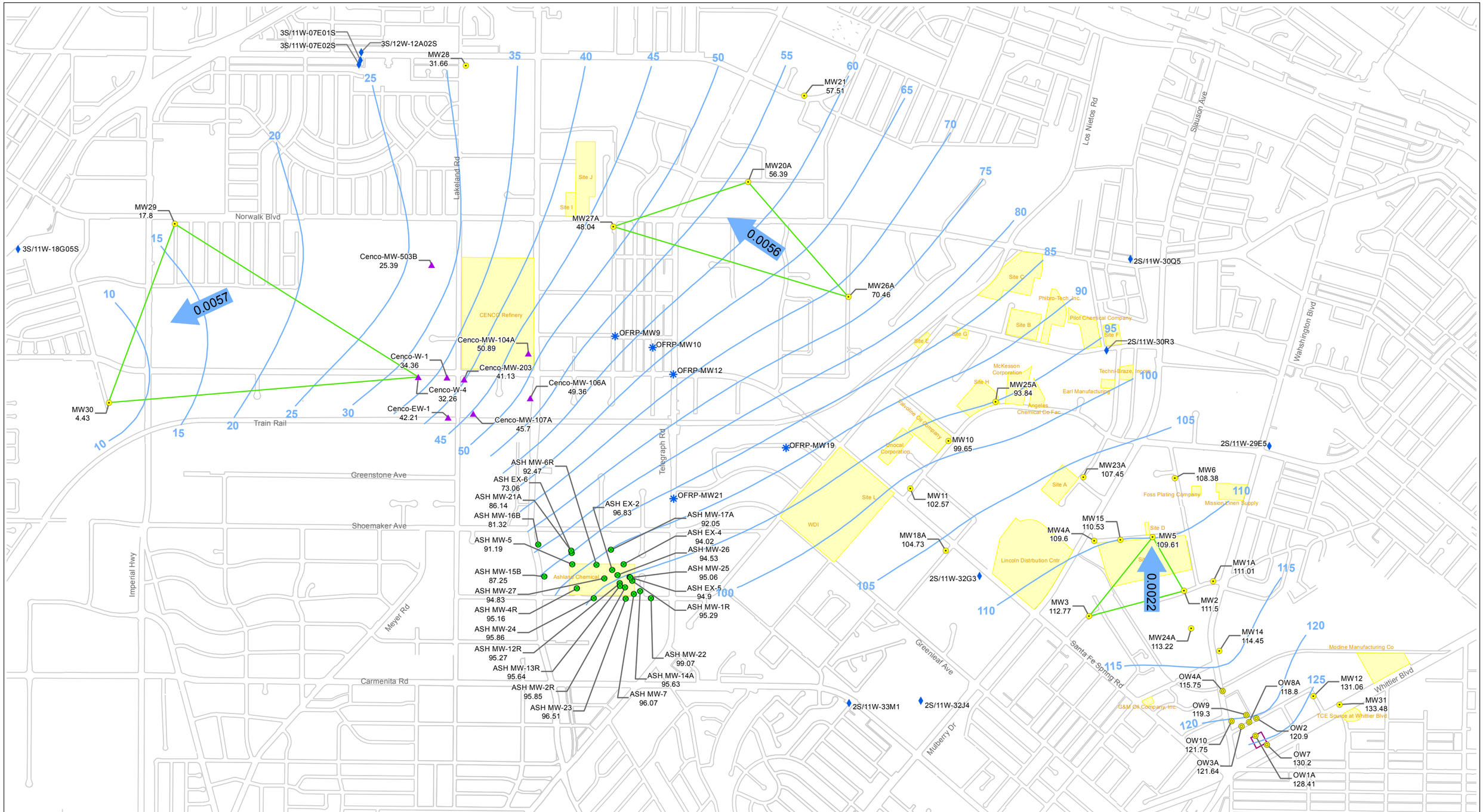
N

0 1000 2000 Feet

Figure 3-4
Water Table Contours, First Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_1Q_2009\Maps\OMEG_1Q2009_WaterTableContours.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Oil Field Reclamation Project(OFRP)
- Production Well
- Water Level Contour 3rd Quarter 2009
- Approximate Boudary of Facilities
- Former Omega Facility

Figure 3-5
Water Table Contours, Third Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_WaterTableContours_NO13B.mxd

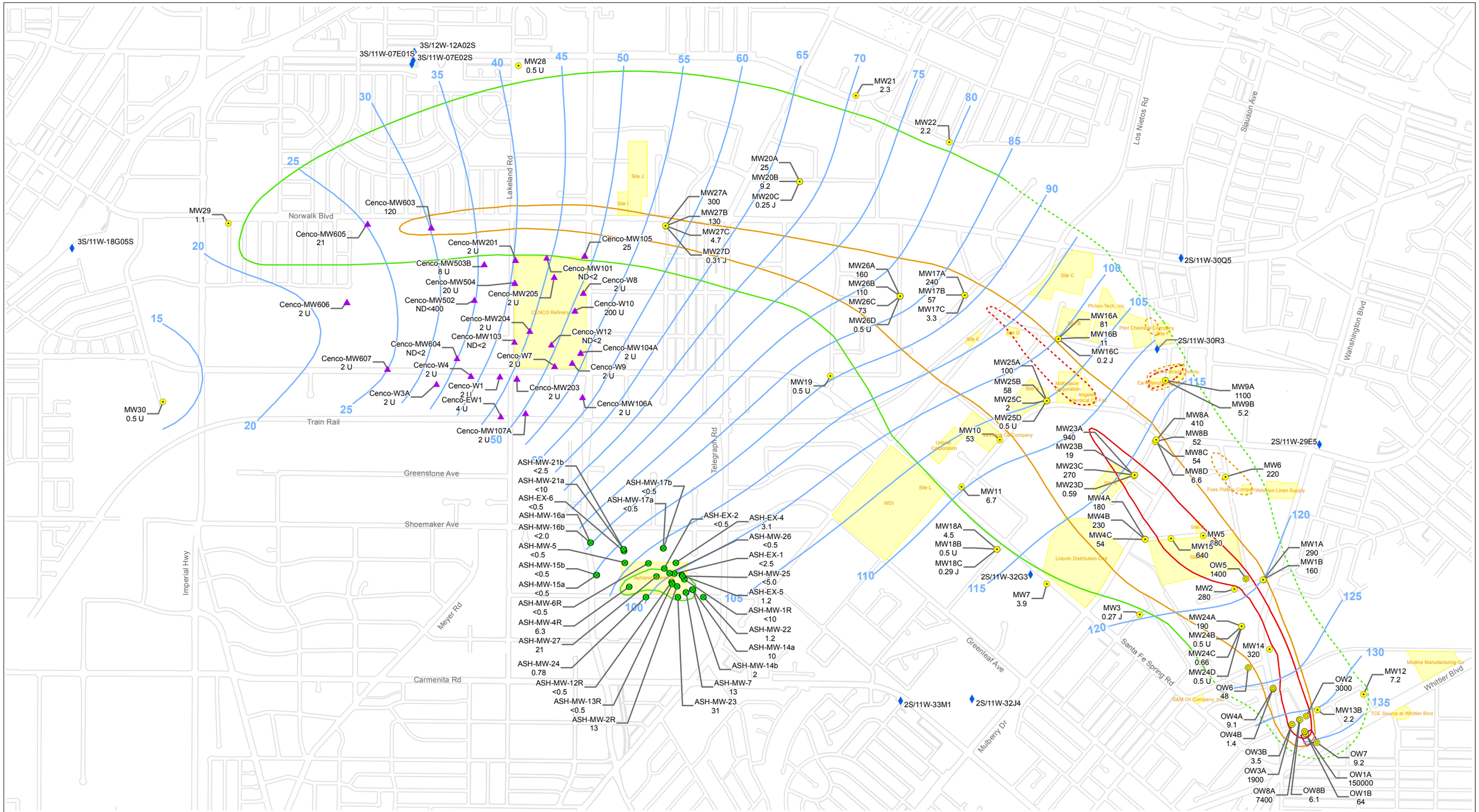
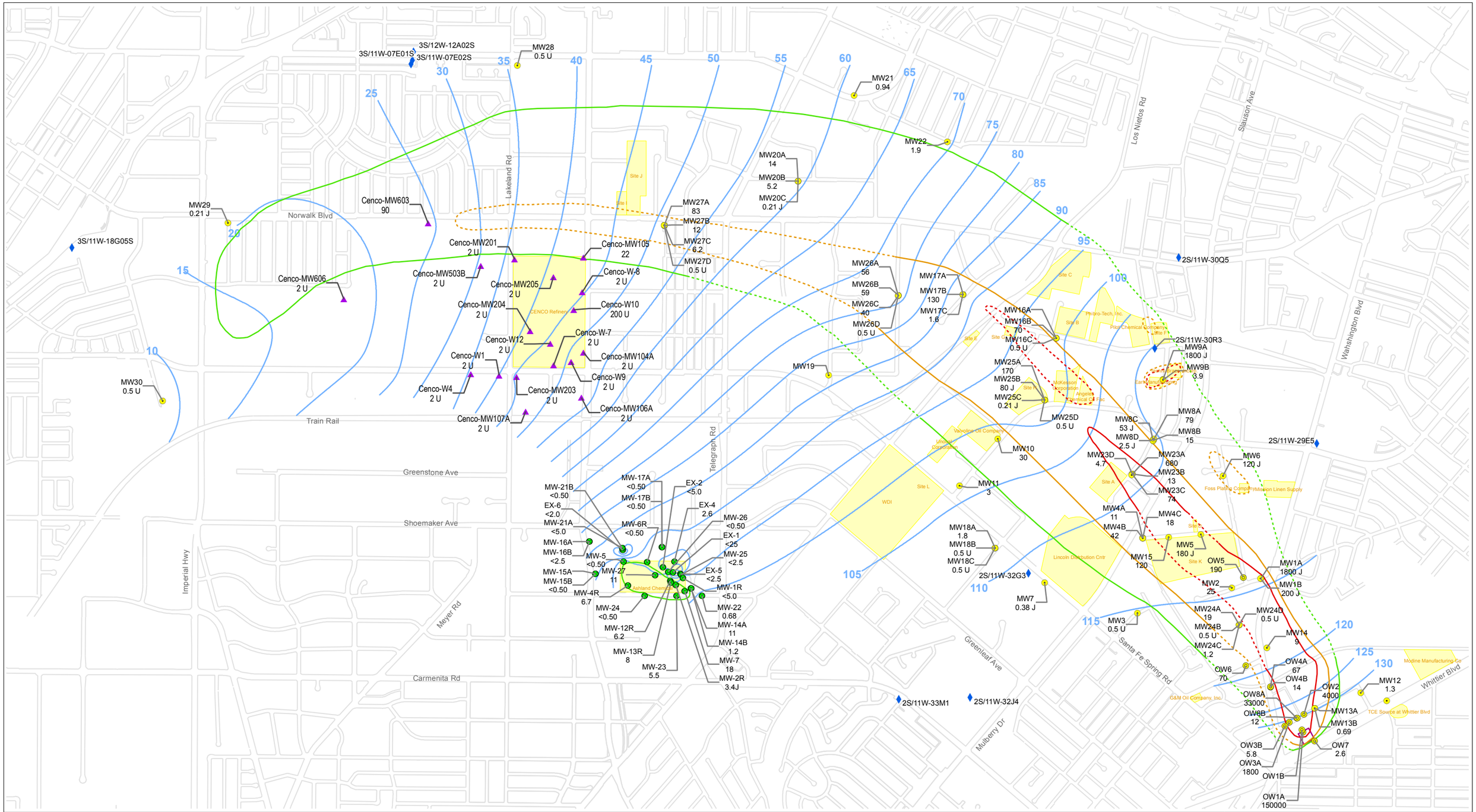


Figure 3-6a
Composite PCE Distribution
First Quarter 2008
Omega Chemical Superfund Site

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_PCE.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite PCE Plume Extent

- 500 ug/L (Dashed where approximate)
- 100 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

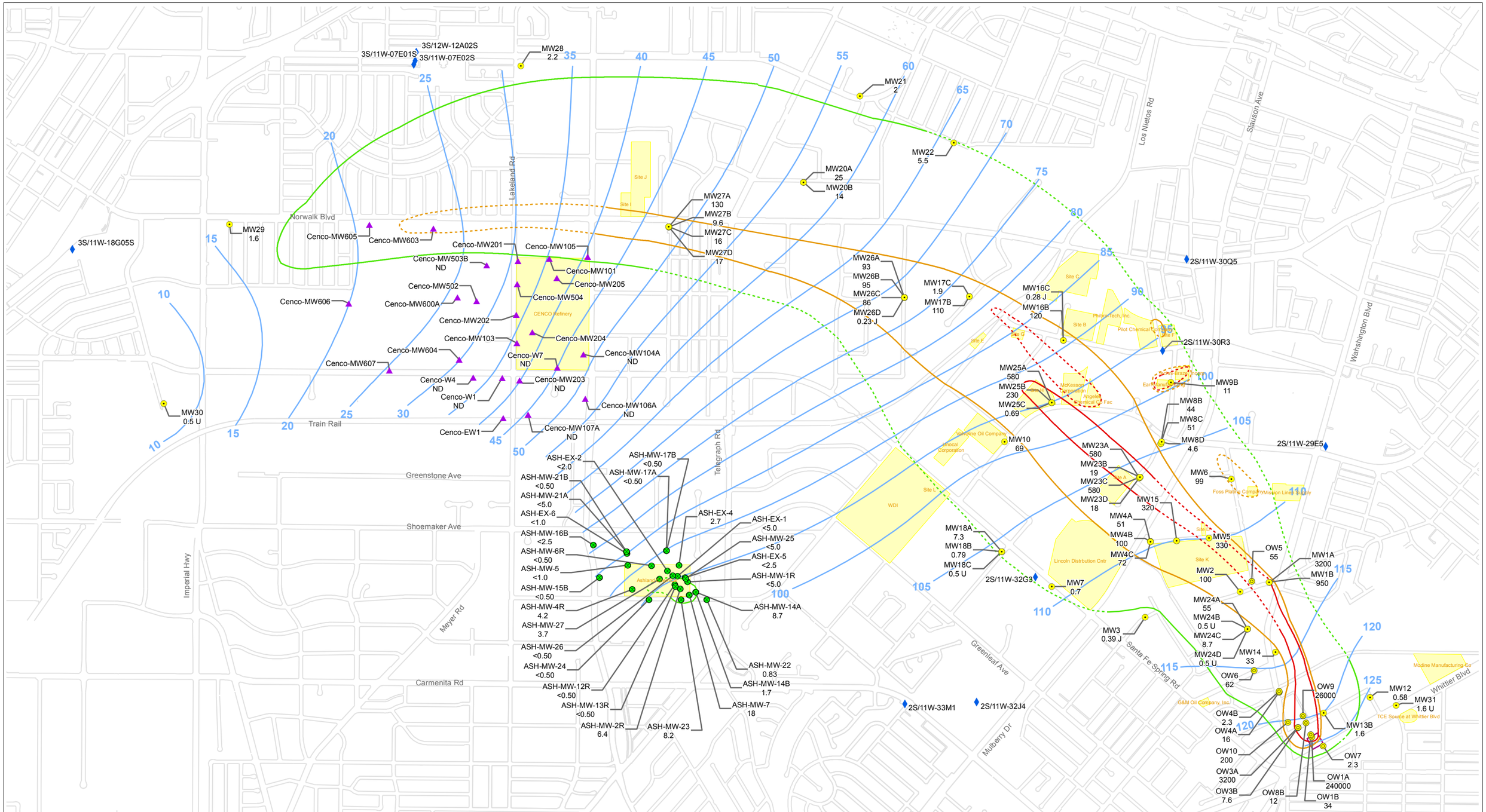
N

0 1000 2000 Feet

Figure 3-6b
Composite PCE Distribution
First Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2009_PCE.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite PCE Plume Extent

- 500 ug/L (Dashed where approximate)
- 100 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour Third Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

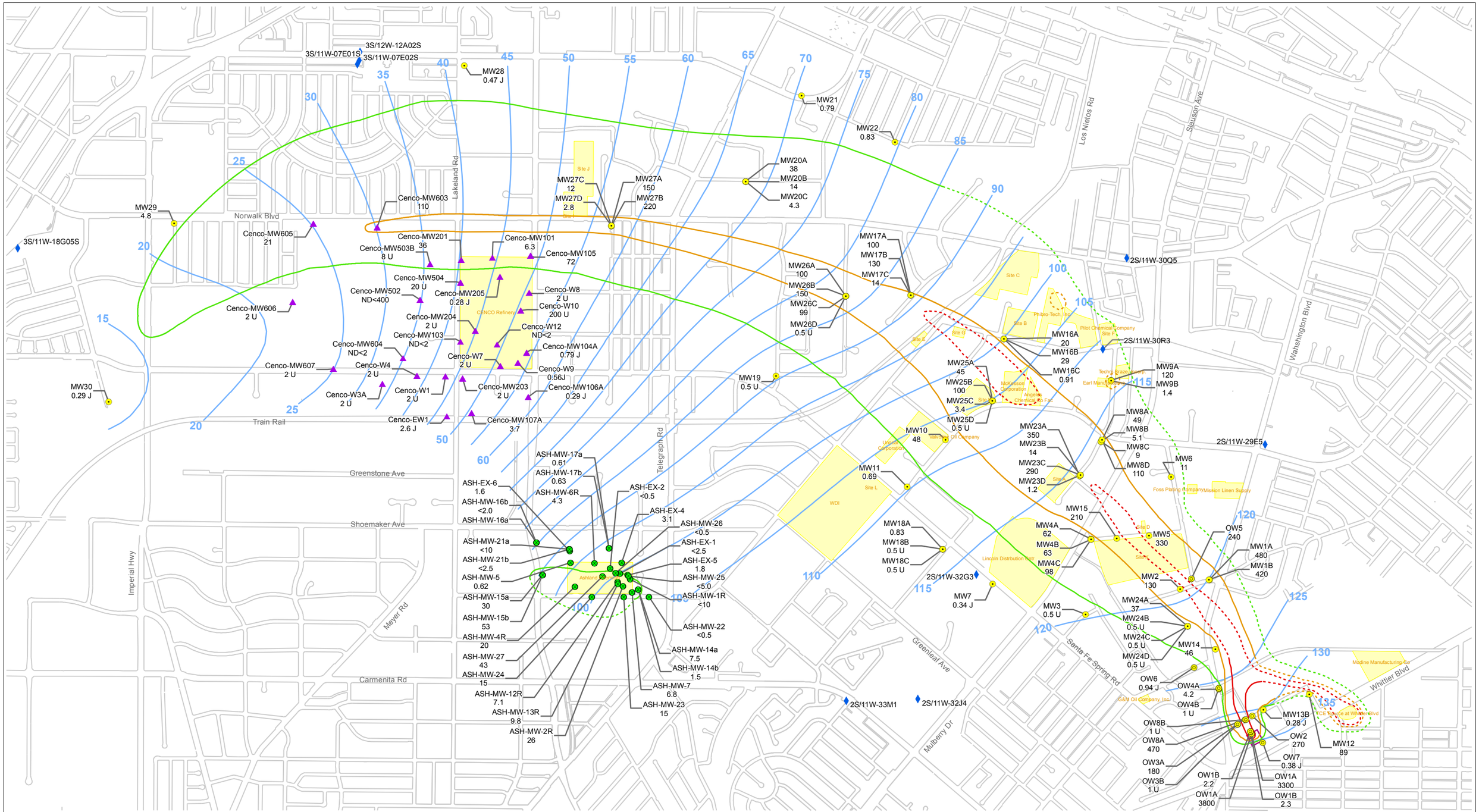
N

0 1000 2000 Feet

Figure 3-6c
Composite PCE Distribution
Third Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_PCE.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite TCE Plume Extent

- 500 ug/L (Dashed where approximate)
- 100 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2008

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

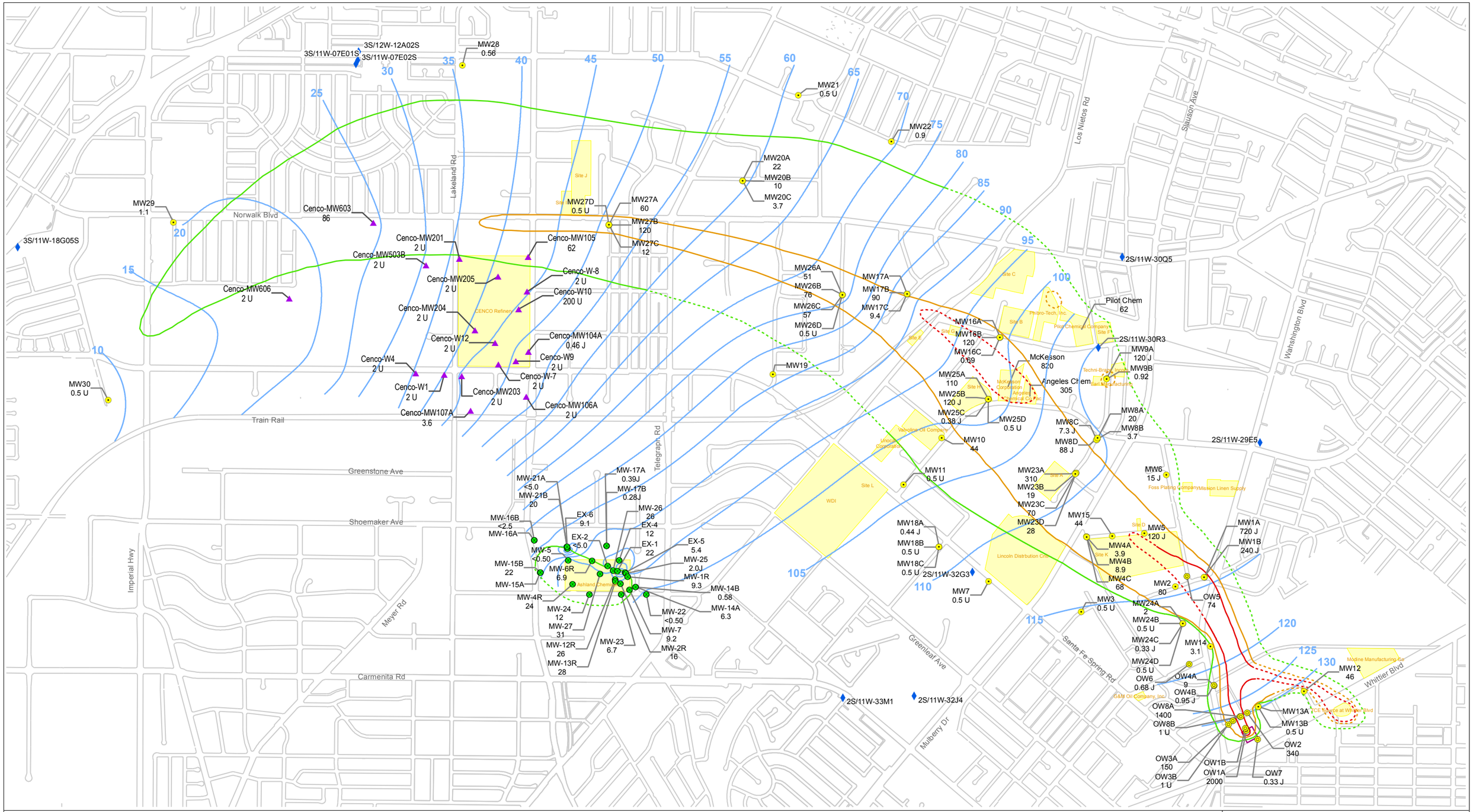
N

0 1000 2000 Feet

Figure 3-7a
Composite TCE Distribution
First Quarter 2008
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_TCE.mxd



Legend

- EPA Monitoring Well (March 2009)
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well (March 2009)
- CENCO Well 1st Quarter, 2009
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite TCE Plume Extent

- 500 ug/L (Dashed where approximate)
- 100 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour 1th Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

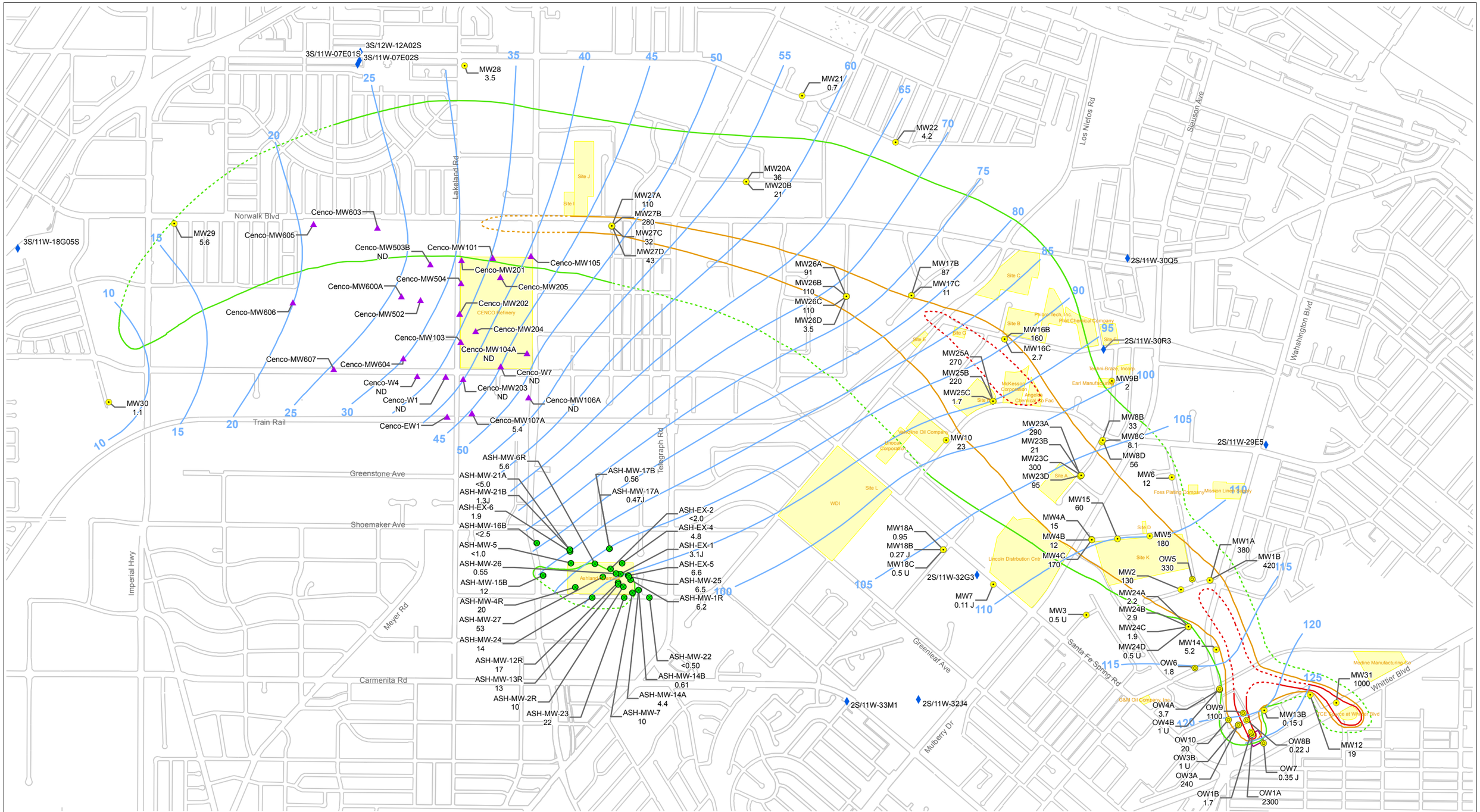
N

0 1000 2000 Feet

Figure 3-7b
Composite TCE Distribution
First Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2009_TCE.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite TCE Plume Extent

- 500 ug/L (Dashed where approximate)
- 100 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour Third Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

N

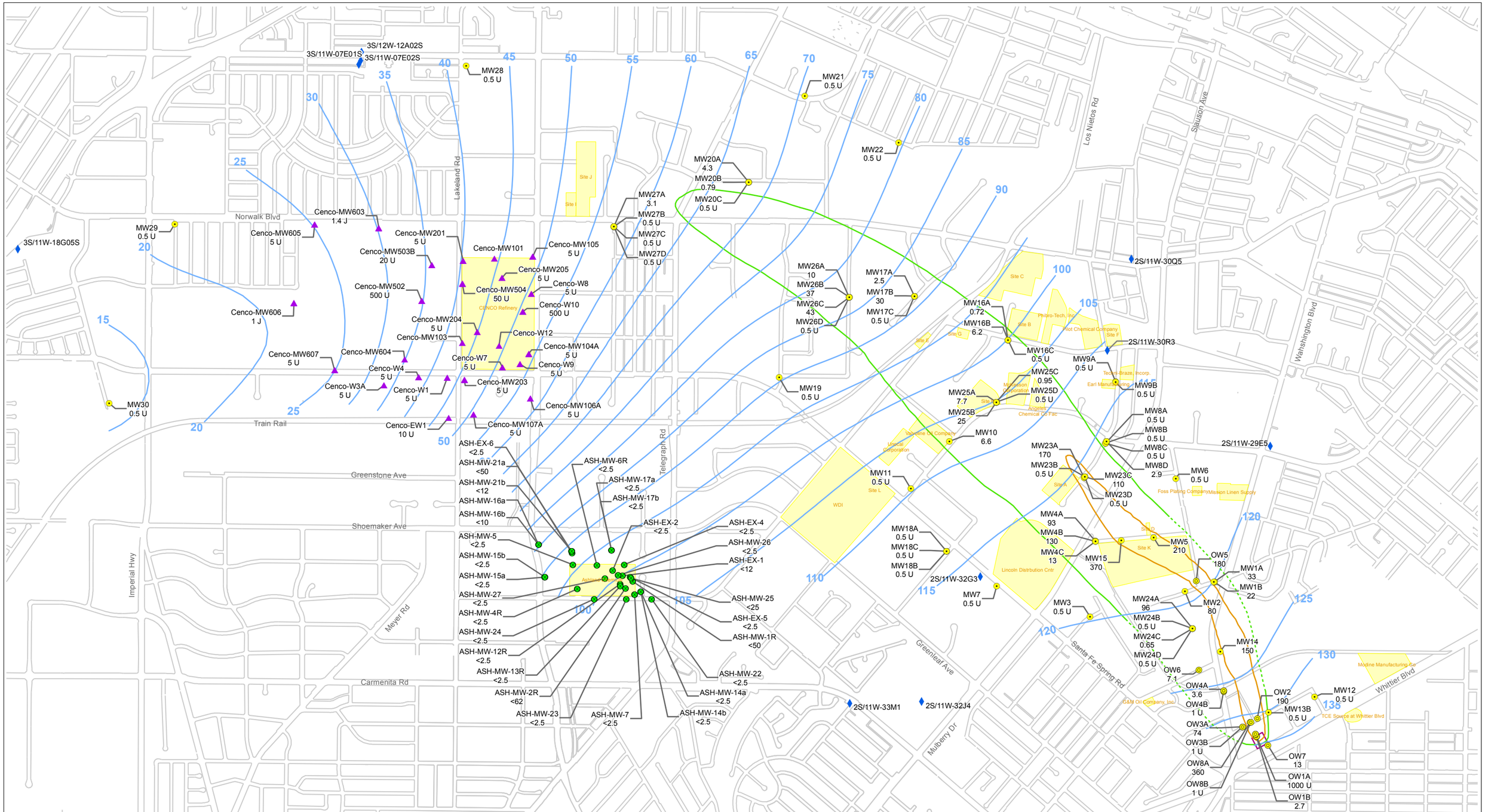
0 1000 2000 Feet

Figure 3-7c
Composite TCE Distribution
Third Quarter 2009

Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_TCE.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite Freon 11 Plume Extent

- 150 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2008

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

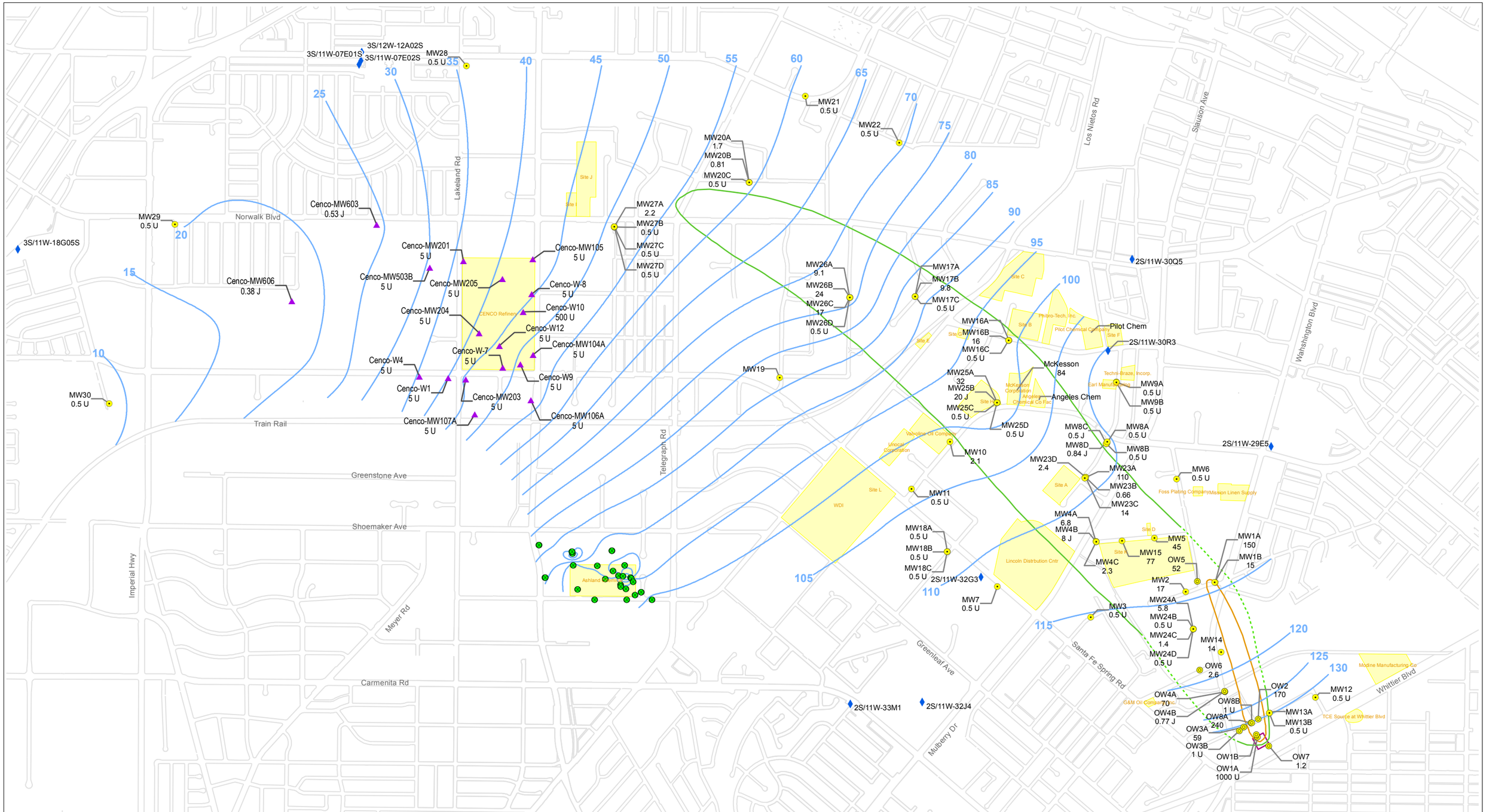
N

0 1000 2000 Feet

Figure 3-8a
Composite Freon11 Distribution
First Quarter 2008
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_Freon11.mxd



Legend

- EPA Monitoring Well (March 2009)
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well (March 2009)
- CENCO Well (1st Quarter, 2009)
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite Freon 11 Plume Extent 1Q2009

- 150 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour 1th Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

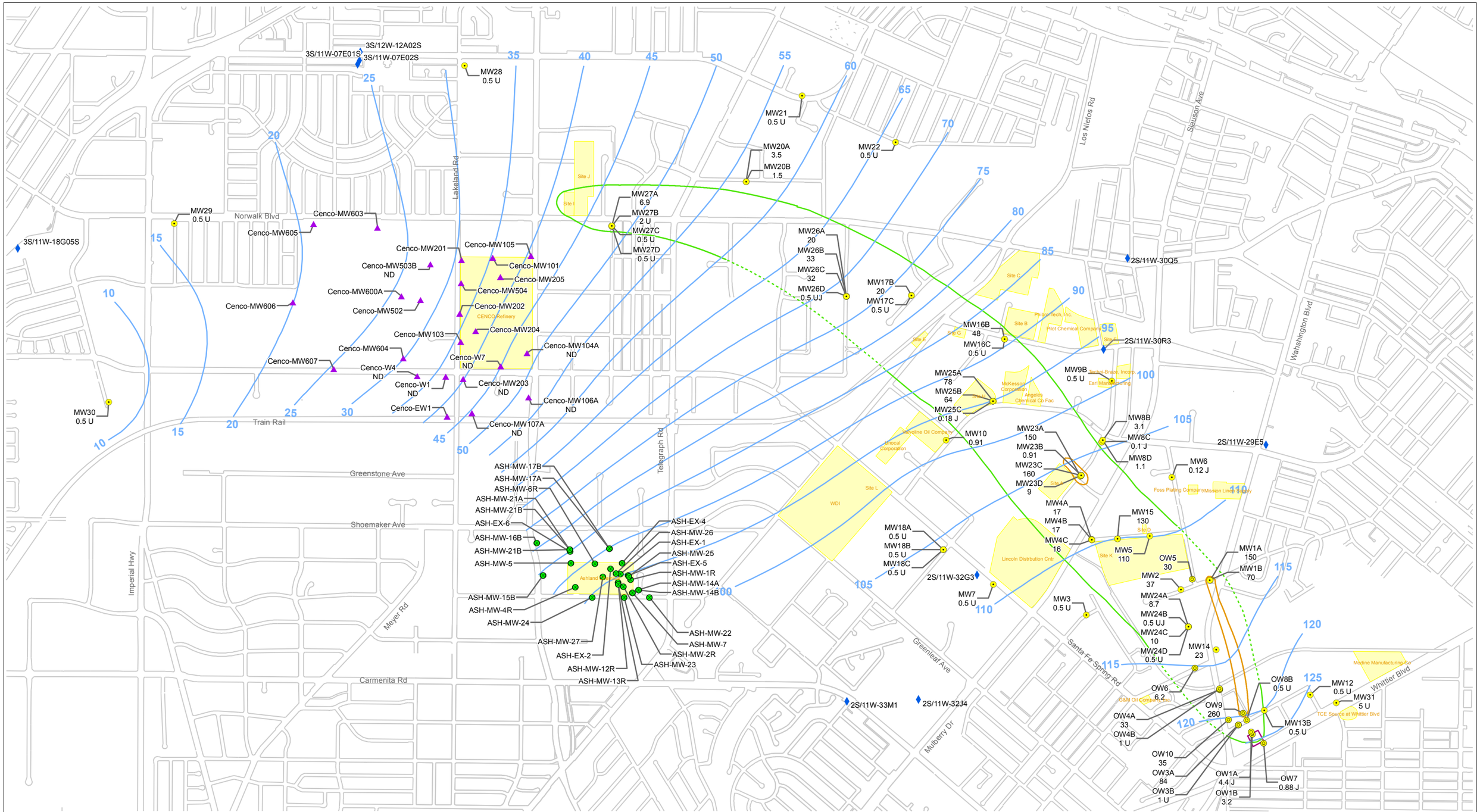
N

0 1000 2000 Feet

Figure 3-8b
Composite Freon11 Distribution
First Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2009_Freon11.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite Freon 11 Plume Extent

- 150 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour Third Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

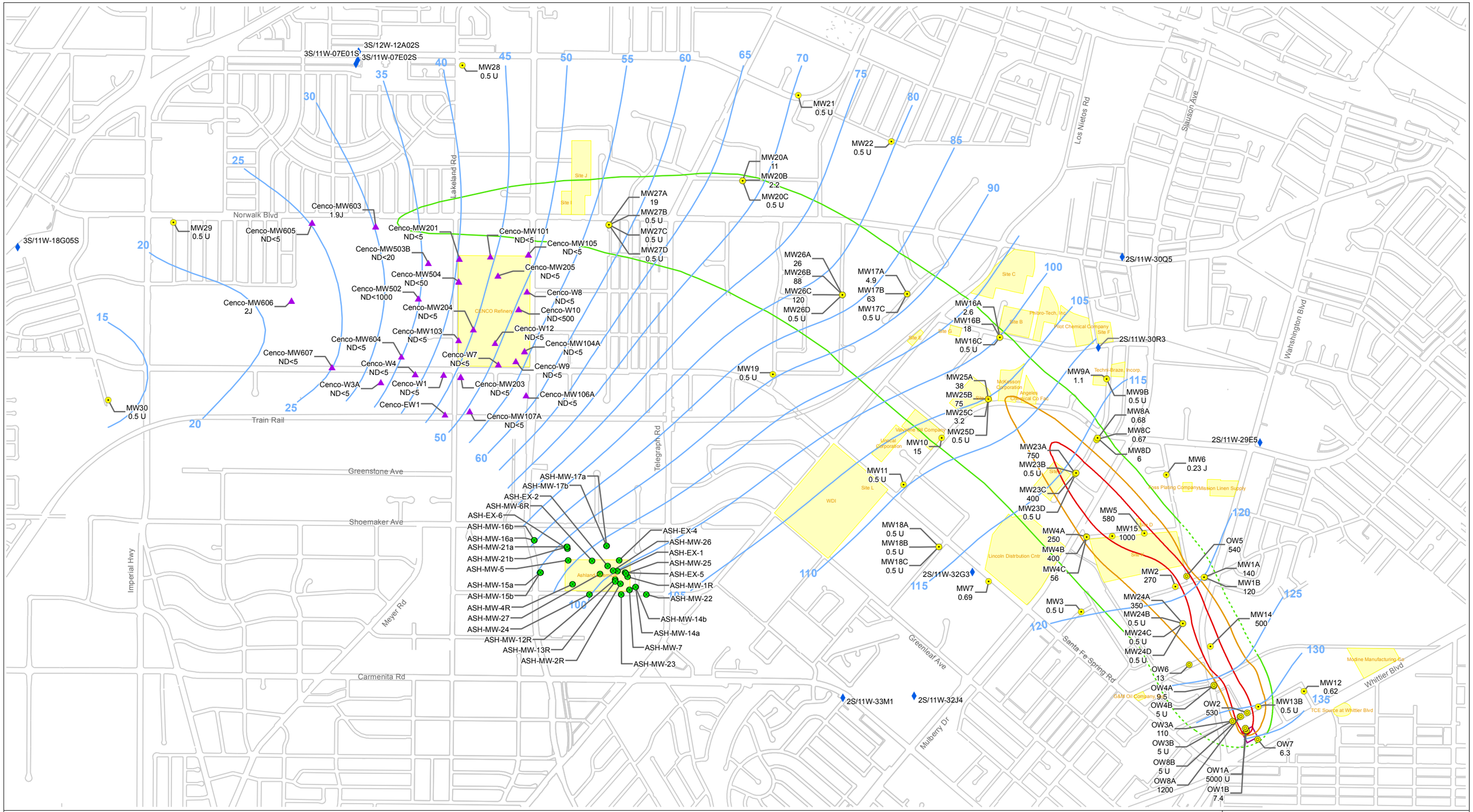
N

0 1000 2000 Feet

Figure 3-8c
Composite Freon11 Distribution
Third Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_Freon11.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite Freon113 Plume Extent

- 500 ug/L (Dashed where approximate)
- 150 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2008

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

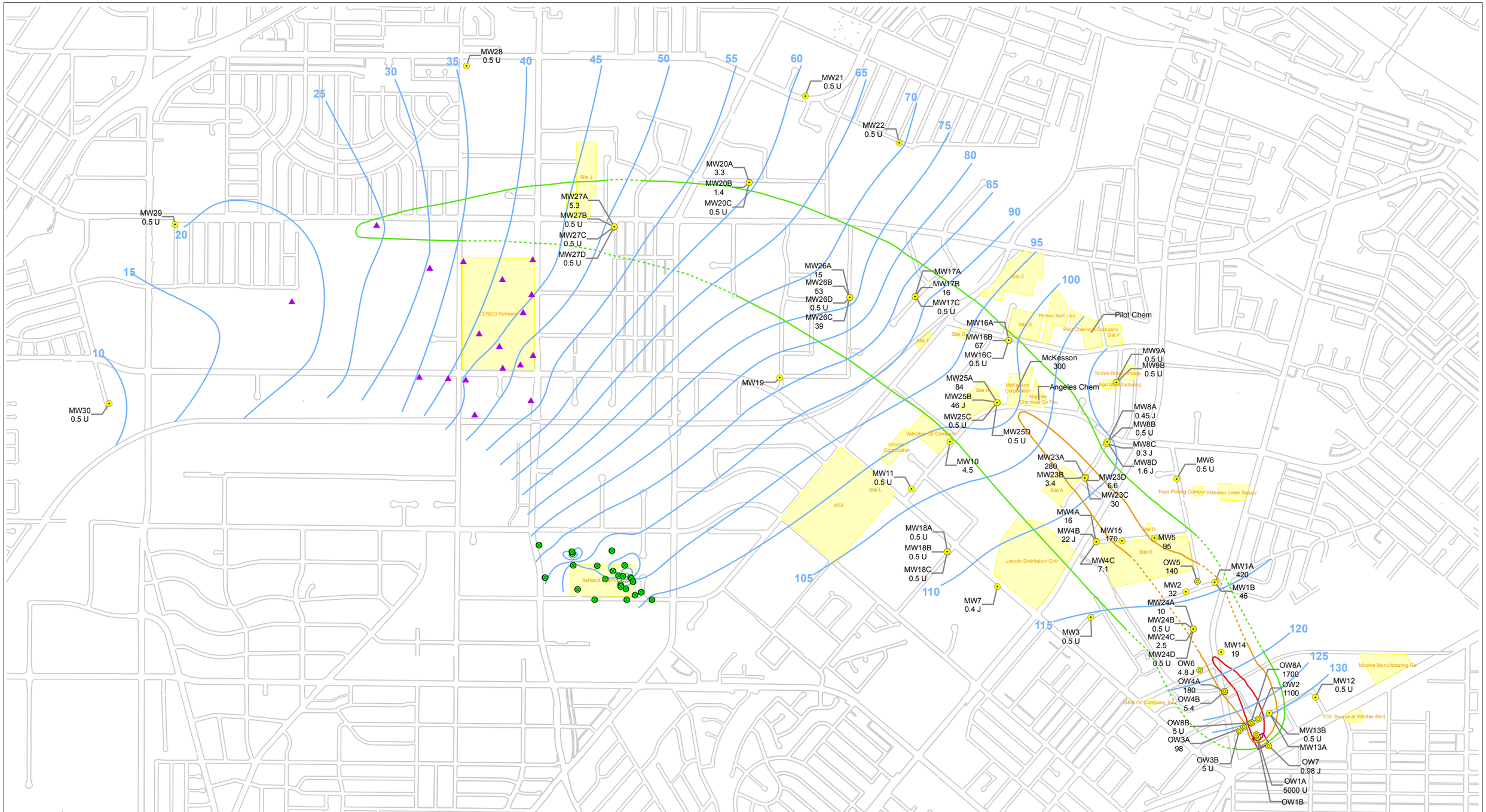
N

0 1000 2000 Feet

Figure 3-9a
Composite Freon113 Distribution
First Quarter 2008
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_Freon113.mxd



Legend

- EPA Monitoring Well (March 2009)
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well (March 2009)
- CENCO Well 1st Quarter, 2009
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite Freon113 Plume Extent

- 500 ug/L (Dashed where approximate)
- 150 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

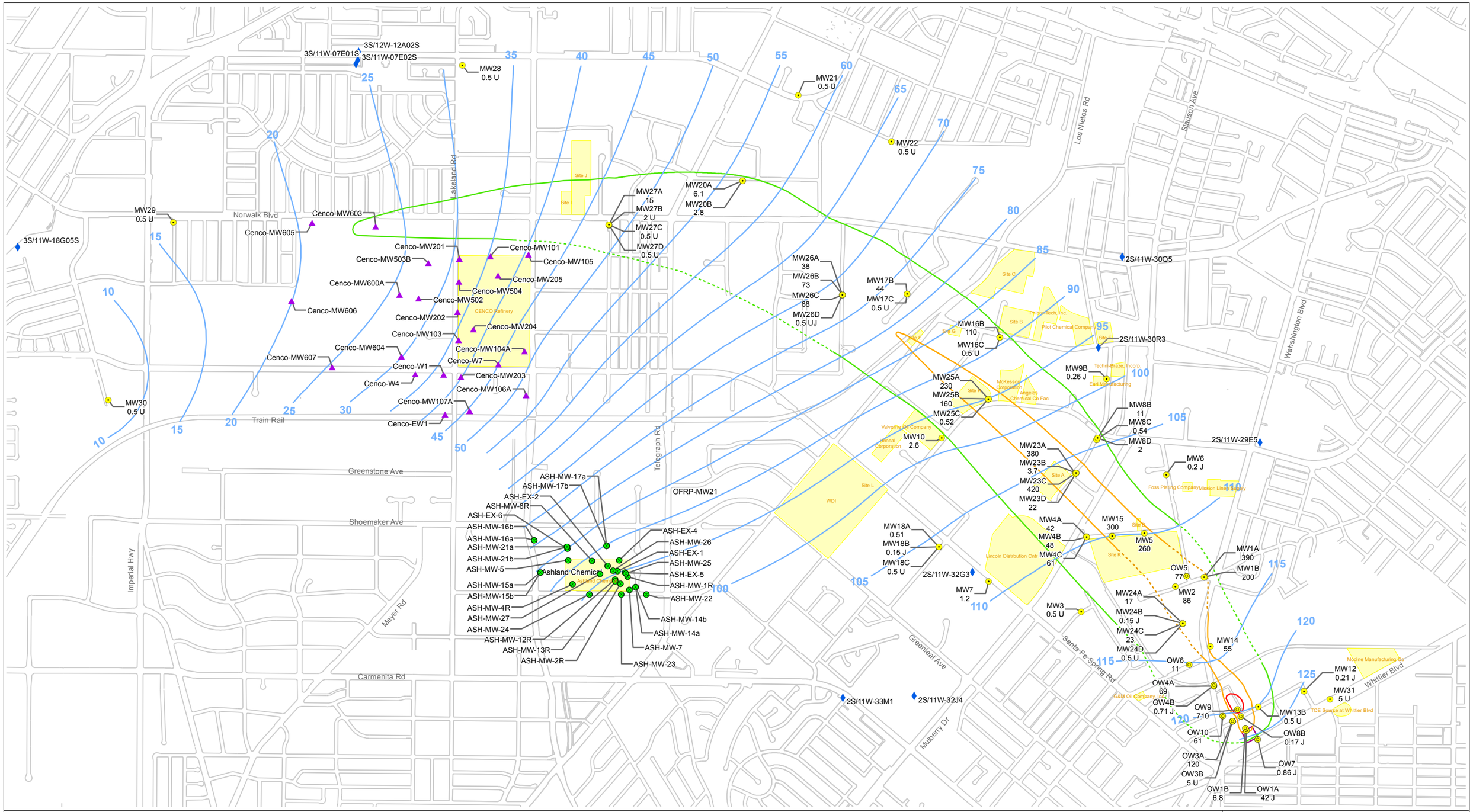
N

0 1000 2000 Feet

Figure 3-9b
Composite Freon113 Distribution
First Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2009_Freon113.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite Freon113 Plume Extent

- 500 ug/L (Dashed where approximate)
- 150 ug/L (Dashed where approximate)
- 5 ug/L (Dashed where approximate)
- Water Level Contour Third Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceding upper level of instrument calibration range.
4) NS - Not Sampled

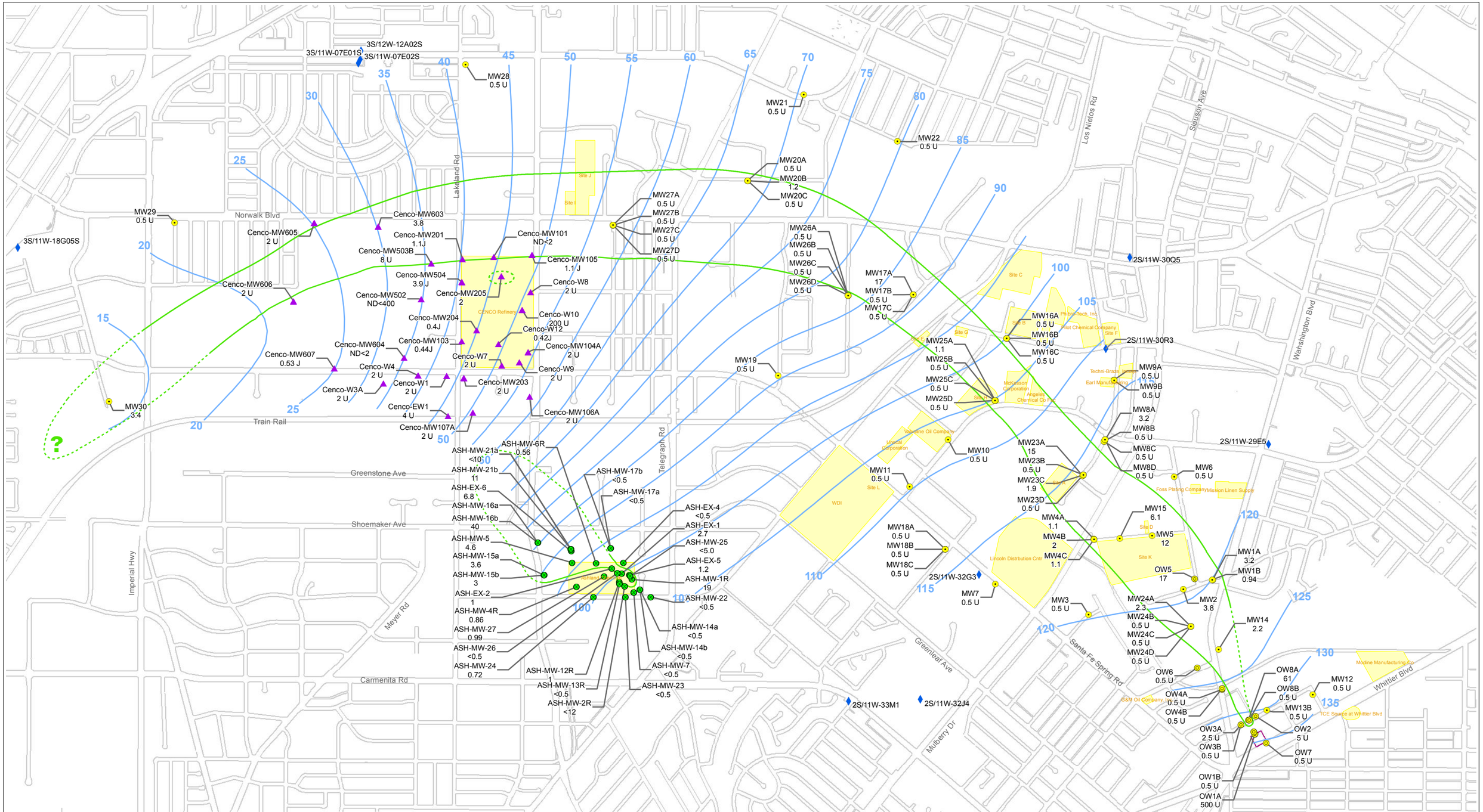
N

0 1000 2000 Feet

Figure 3-9c
Composite Freon113 Distribution
Third Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_Freon113.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility
- 1 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2008

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

N

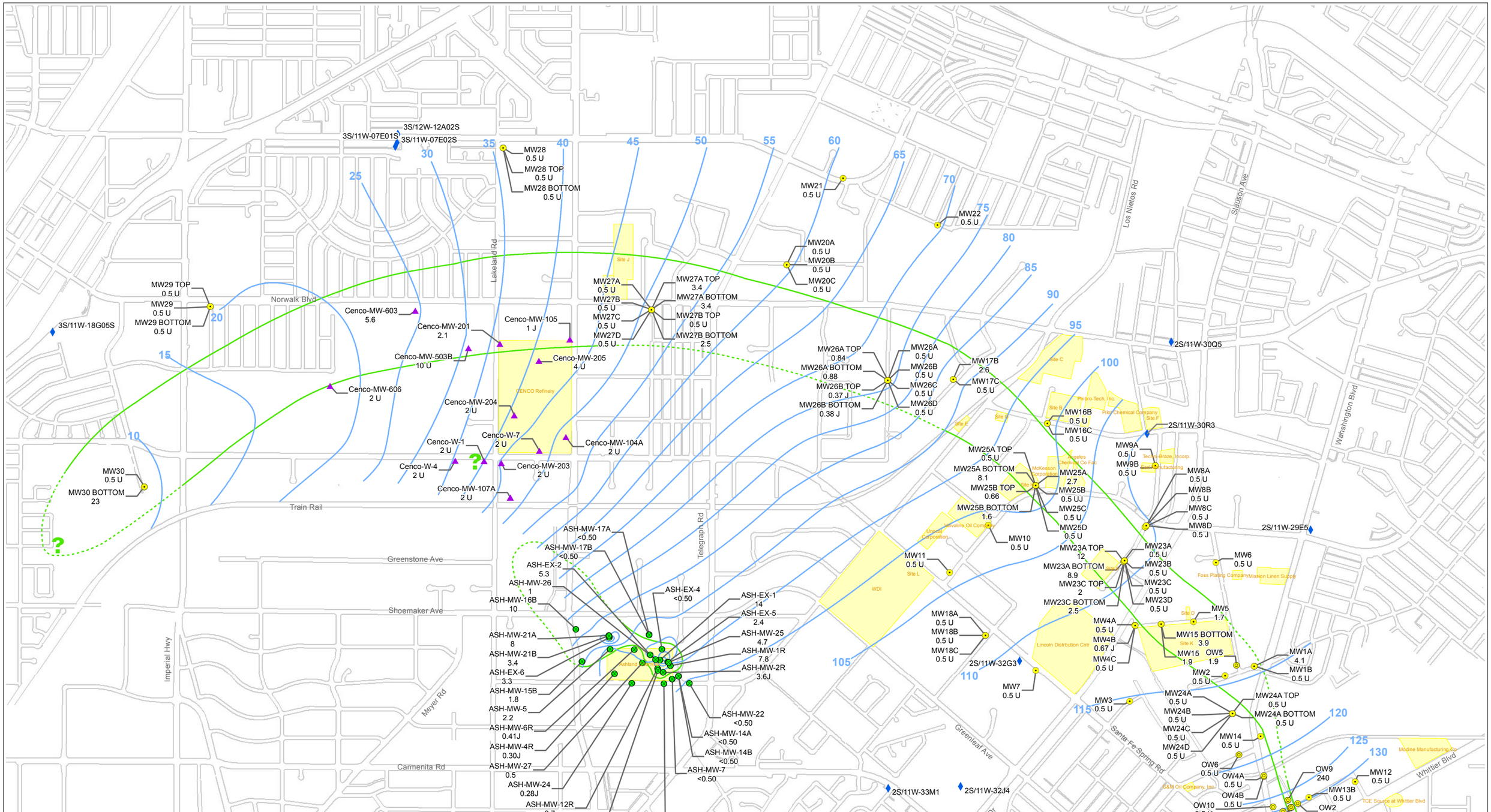
0 1000 2000 Feet

Figure 3-10a
Composite 1,2-DCA Distribution
First Quarter 2008

Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_1,2-DCA.mxd



Legend

- EPA Monitoring Well (March 2009)
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well (March 2009)
- CENCO Well (1st Quarter, 2009)
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility
- 1 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceding upper level of instrument calibration range.
4) NS - Not Sampled

N

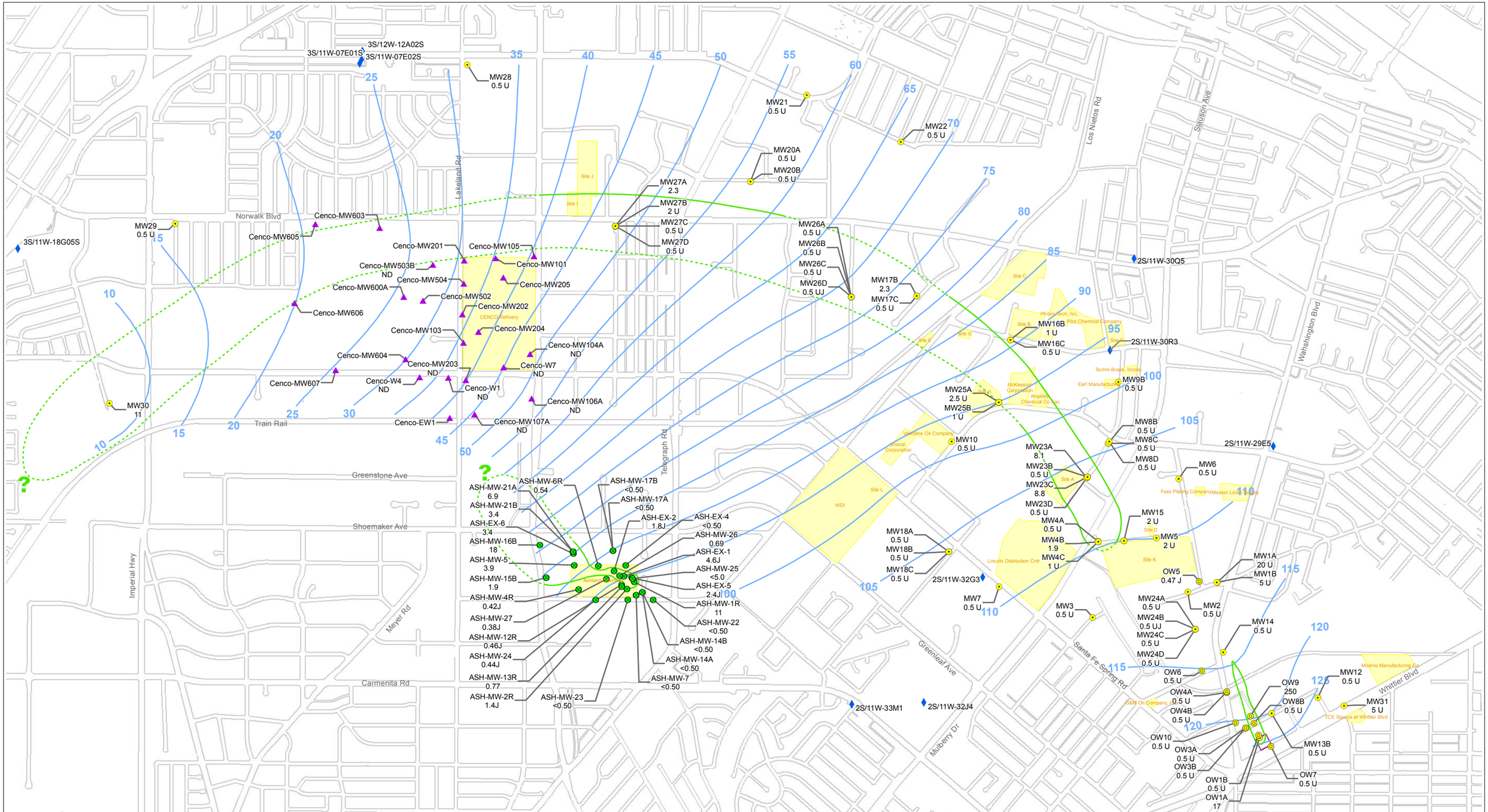
0 1000 2000 Feet

Figure 3-10b
Composite 1,2-DCA Distribution
First Quarter 2009

Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2009_1,2-DCA.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility
- 1 ug/L (Dashed where approximate)
- Water Level Contour Third Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

N

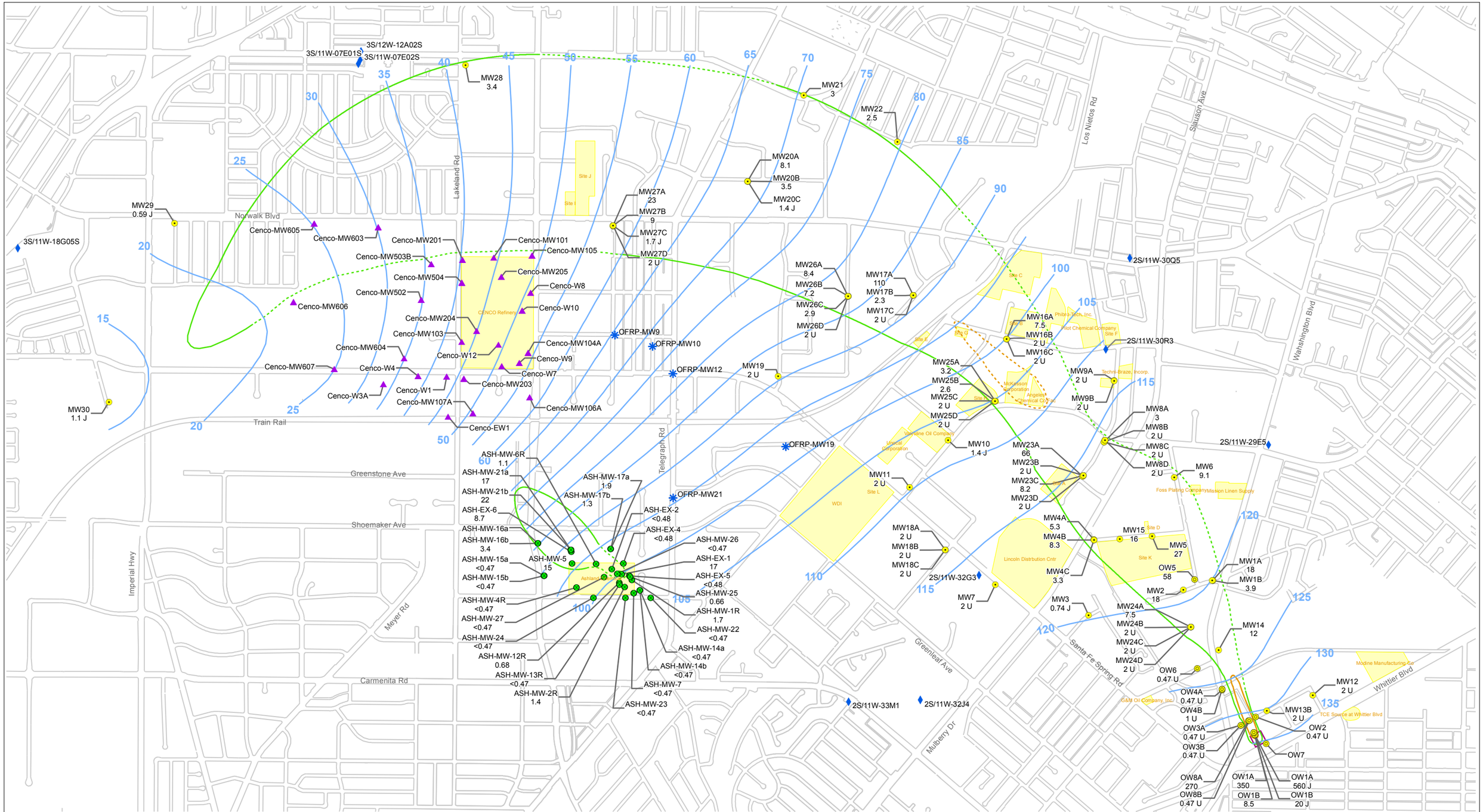
0 1000 2000 Feet

Figure 3-10c
Composite 1,2-DCA Distribution
Third Quarter 2009

Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_1,2-DCA.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite1,4 Dioxane Plume Extent

- 100 ug/L (Dashed where approximate)
- 3 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2008

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

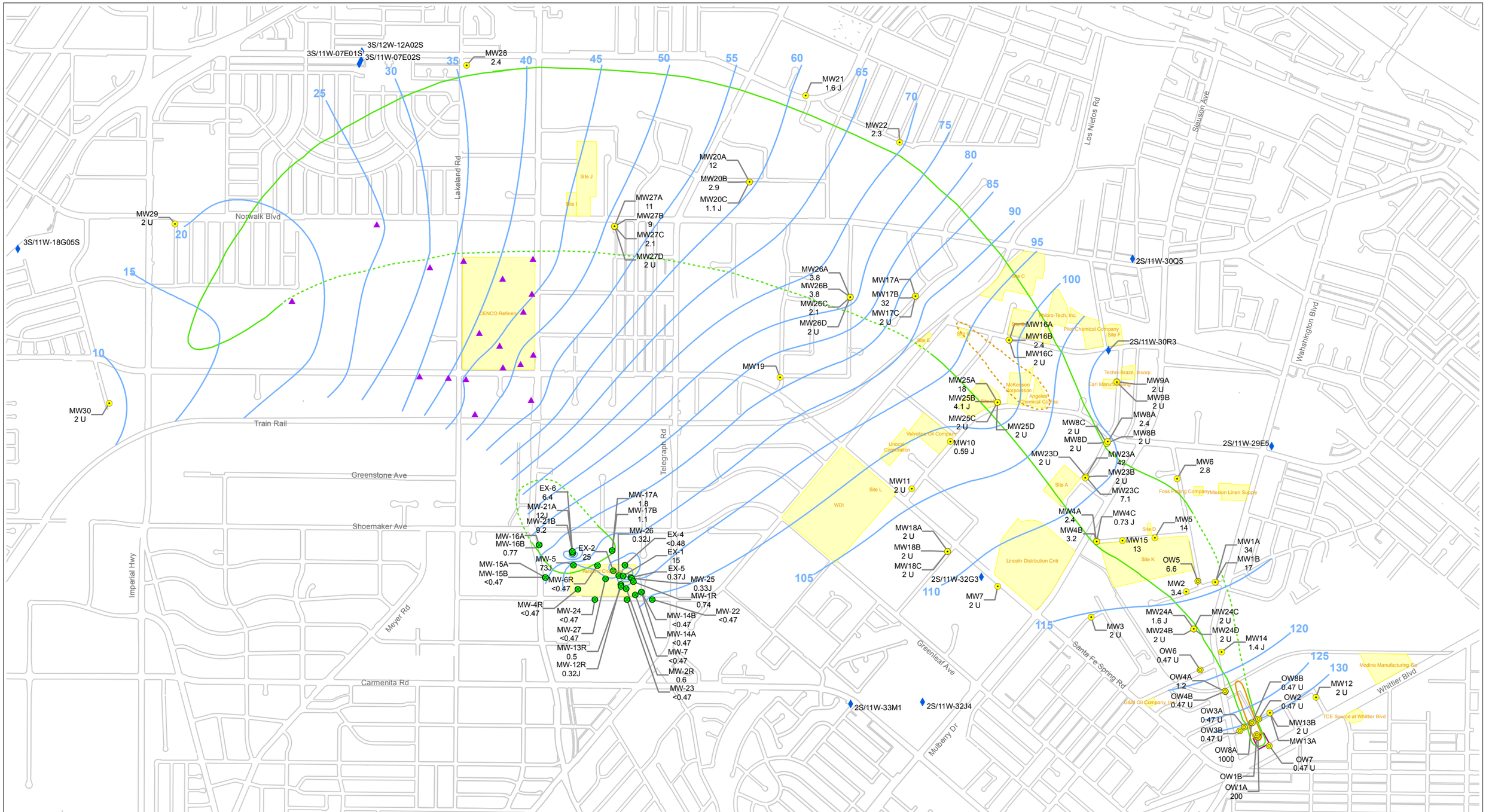
N

0 1000 2000 Feet

Figure 3-11a
Composite 1,4 Dioxane Distribution
First Quarter 2008
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2008_1,4 Dioxane.mxd



Legend

- EPA Monitoring Well (March 2009)
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well (March 2009)
- CENCO Well 1st Quarter, 2009
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite1,4 Dioxane Plume Extent 1Q2009

- 100 ug/L (Dashed where approximate)
- 3 ug/L (Dashed where approximate)
- Water Level Contour First Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

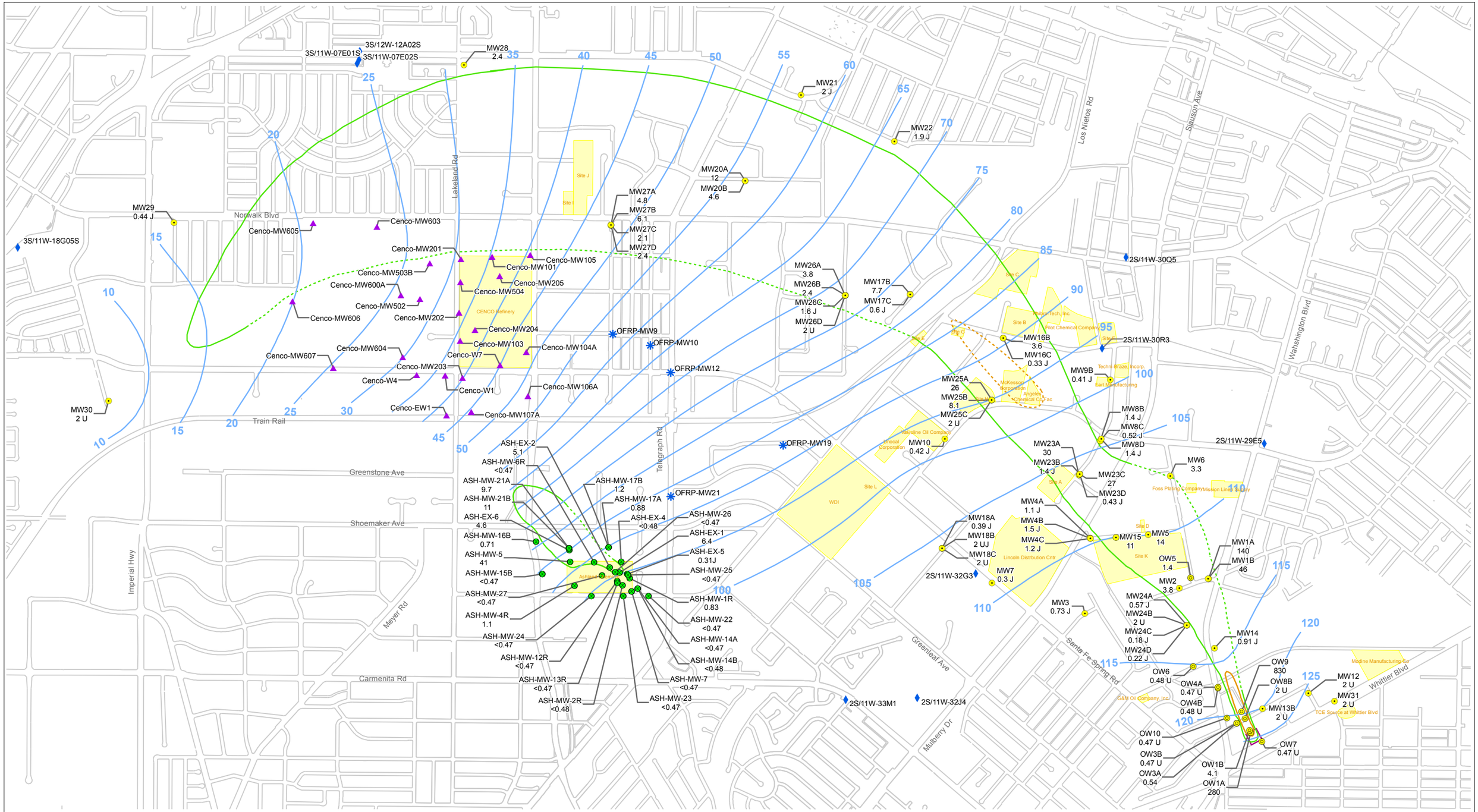
N

0 1000 2000 Feet

Figure 3-11b
Composite 1,4 Dioxane Distribution
First Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_1Q2009_1,4 Dioxane.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

Composite1,4 Dioxane Plume Extent

- 100 ug/L (Dashed where approximate)
- 3 ug/L (Dashed where approximate)
- Water Level Contour Third Quarter 2009

Notes:
1) J - Estimated Value upper level of instrument calibration range.
2) U - Non-Detect
3) E - Estimated value as the concentration exceeding upper level of instrument calibration range.
4) NS - Not Sampled

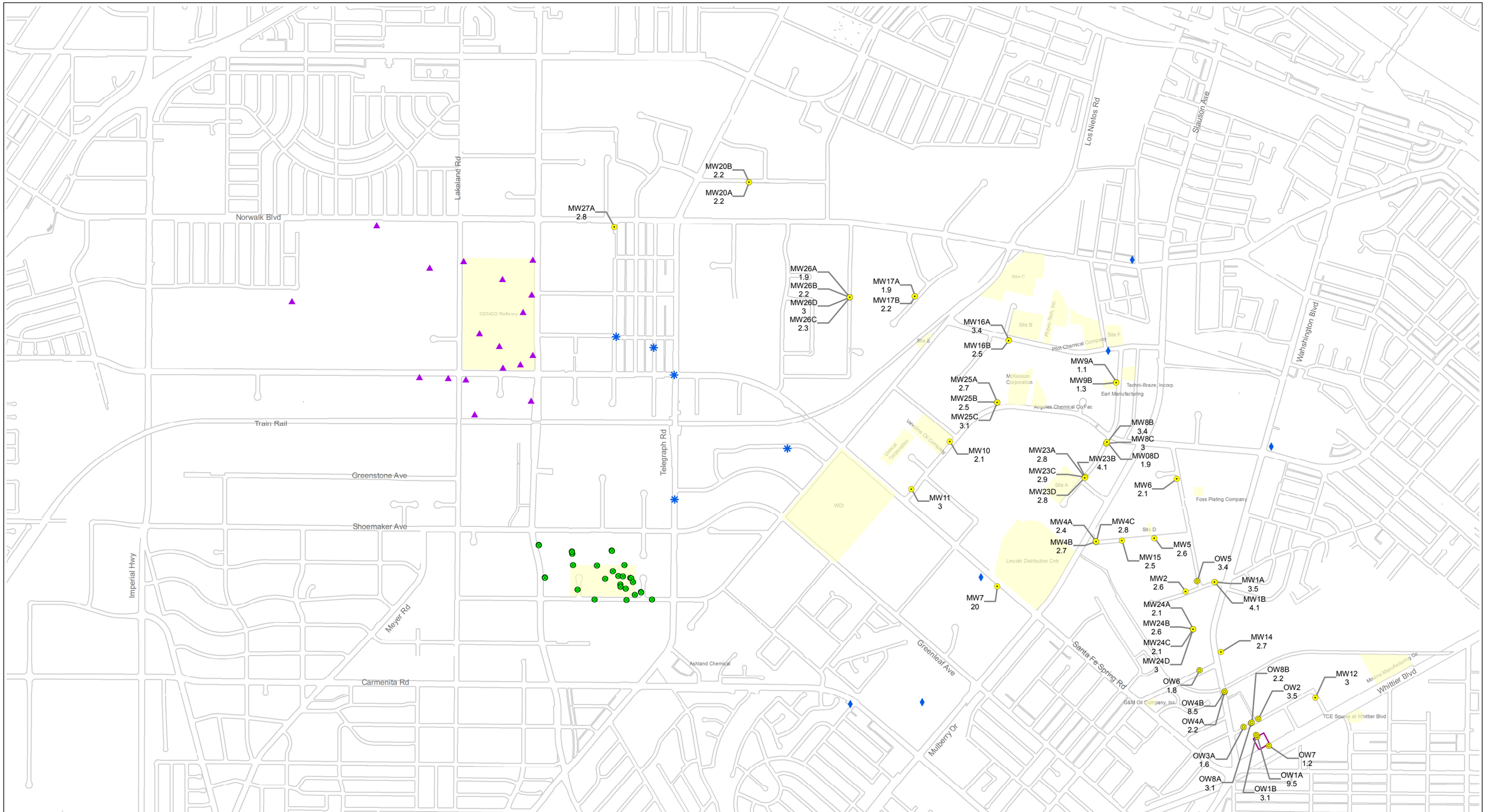
N

0 1000 2000 Feet

Figure 3-11c
Composite 1,4 Dioxane Distribution
Third Quarter 2009
Omega Chemical Superfund Site

CH2MHILL

Path: C:\Users\mibrown\Desktop\Omega\2009-CH2Mhill\Omega\OMEGA_2010_Annual_Report\Maps\OMEG_3Q2009_1,4 Dioxane.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well
- CENCO Well
- Ashland Chemical Well
- Oil Field Reclamation Project(OFRP)
- Production Well
- Approximate Boudary of Facilities
- Former Omega Facility

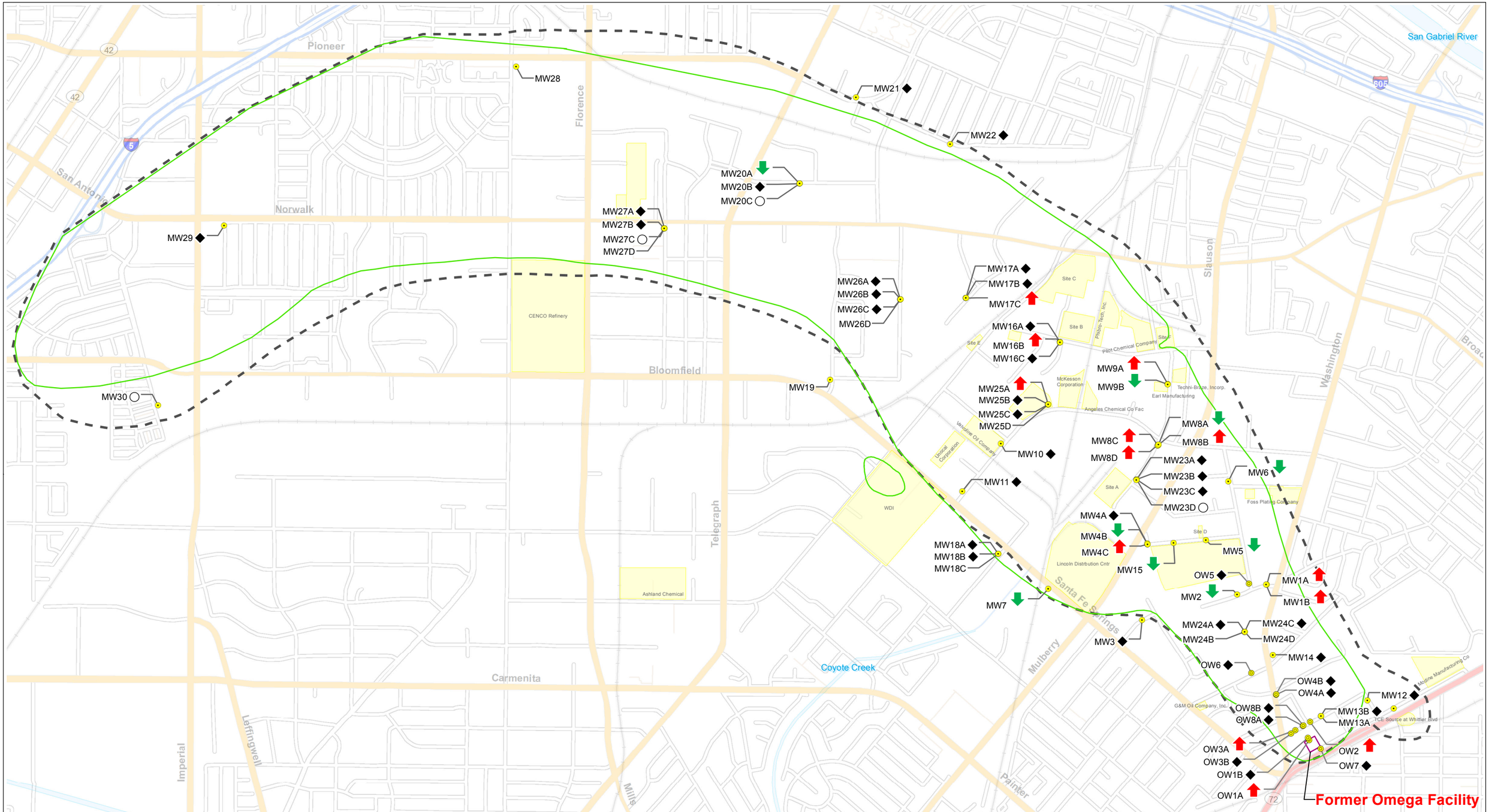
N

0 1000 2000 Feet

Figure 3-12
Freon 113 to Freon 11 Ratios
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Tredn\Freon113_11.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

PCE Contour Line

- 5 ug/L (March 2009)

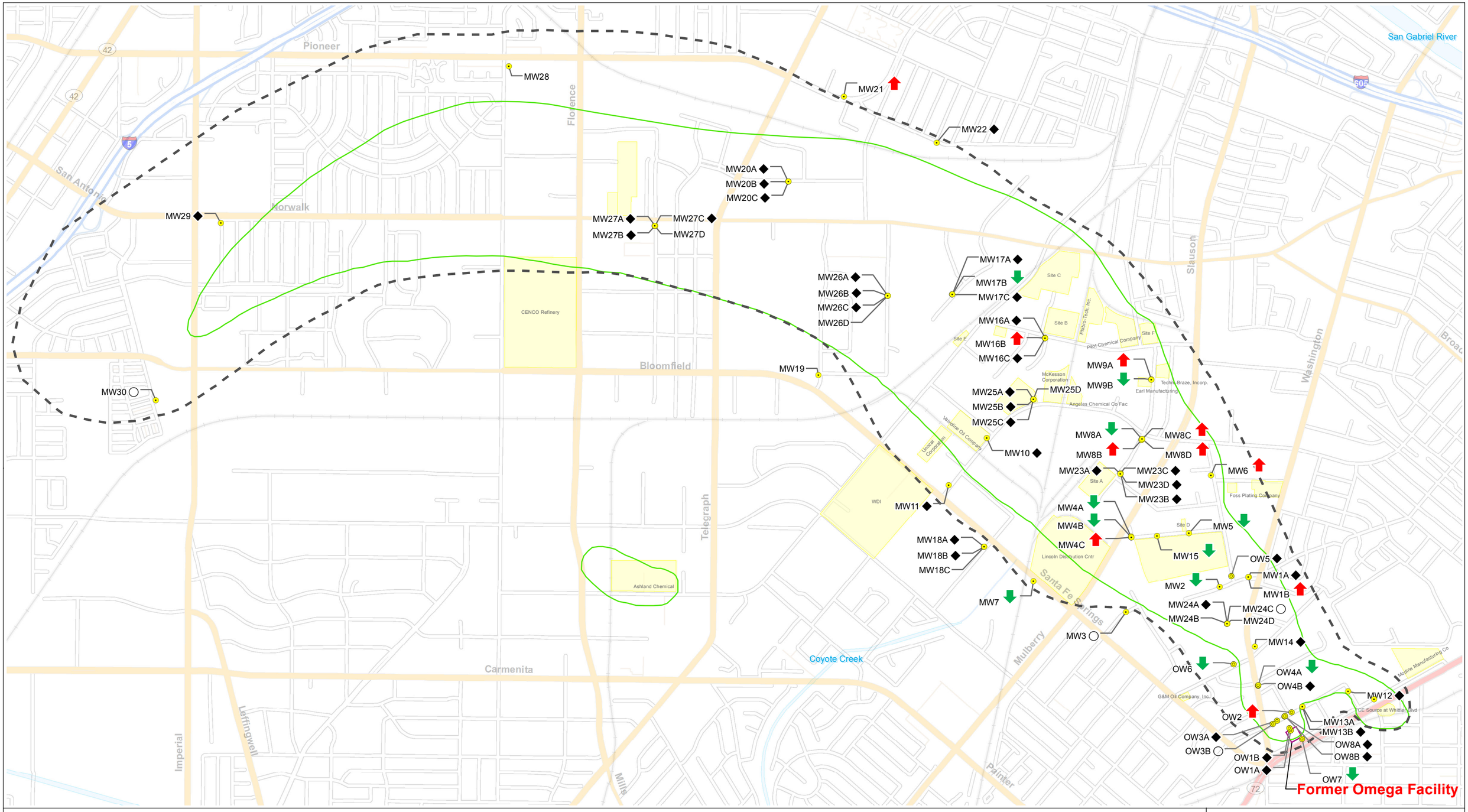
N

0 1000 2000 Feet

Figure 13
PCE Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\PCE_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

TCE Contour Line

- 5 ug/L (March 2009)

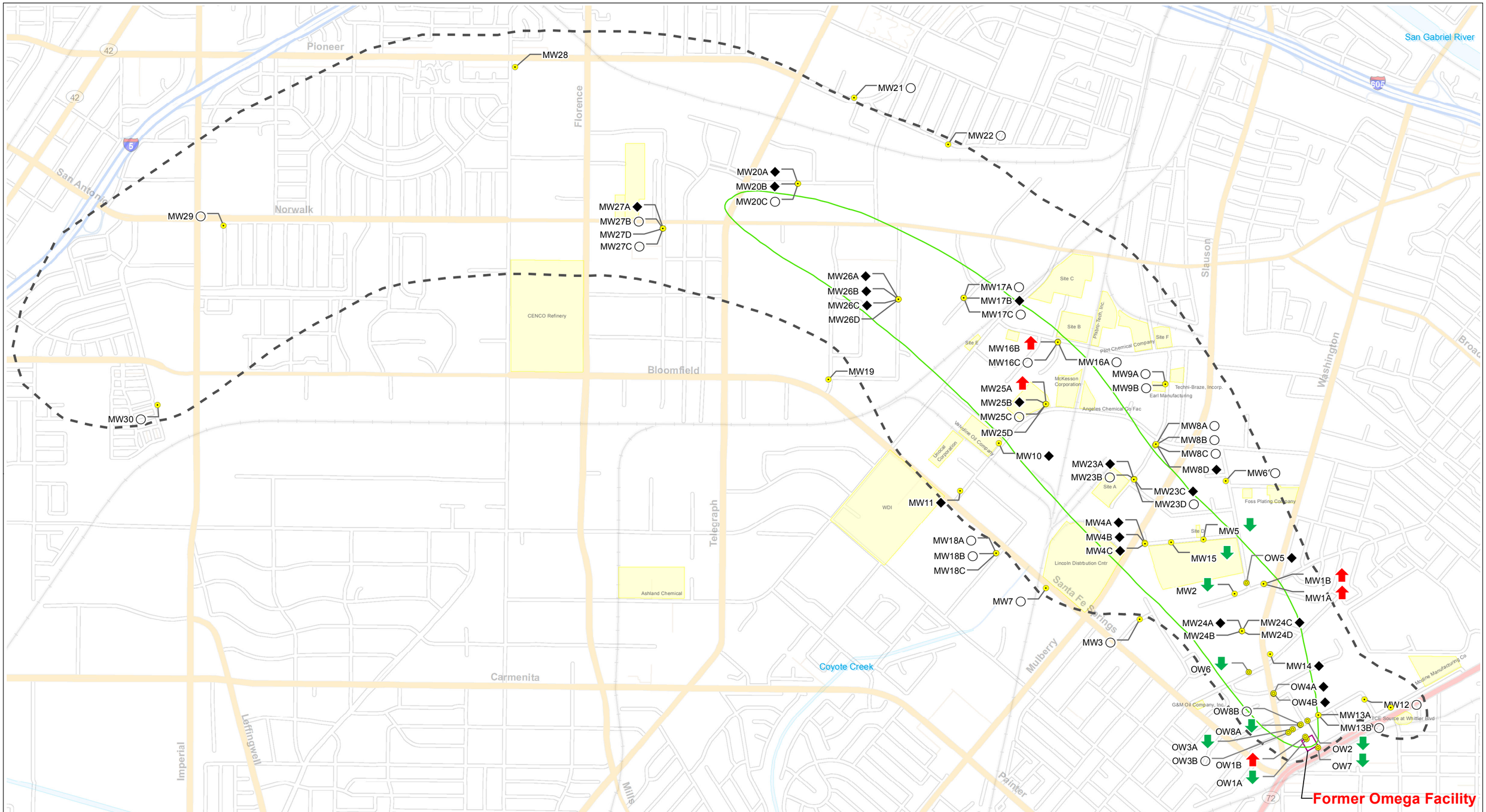
N

0 1000 2000 Feet

Figure 14
TCE Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\TCE_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

Freon 11 Contour Line

- 5 ug/L (March 2009)

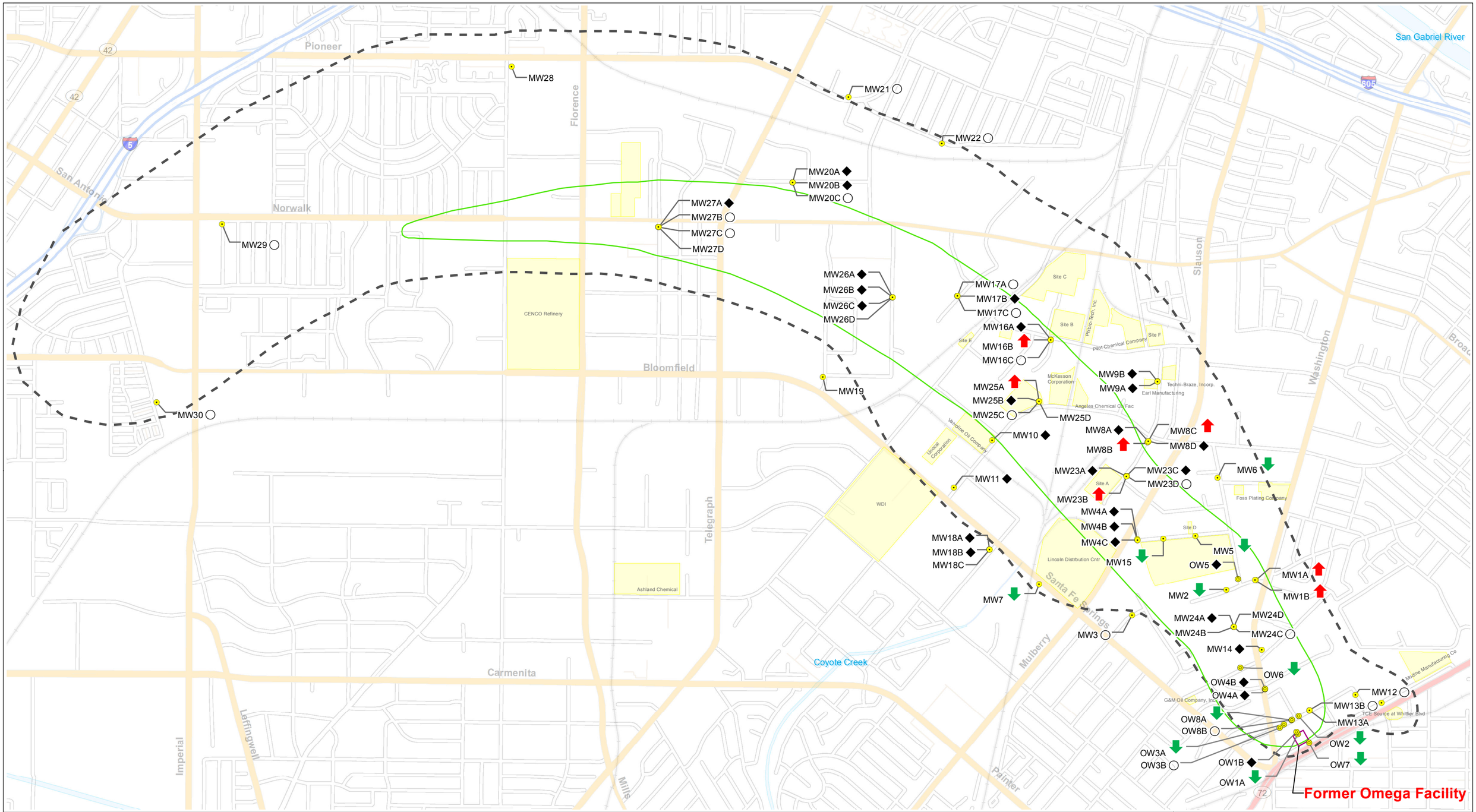
N

0 1000 2000 Feet

Figure 15
Freon 11 Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\F11_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

Freon 113 Contour Line

- 5 ug/L (March 2009)

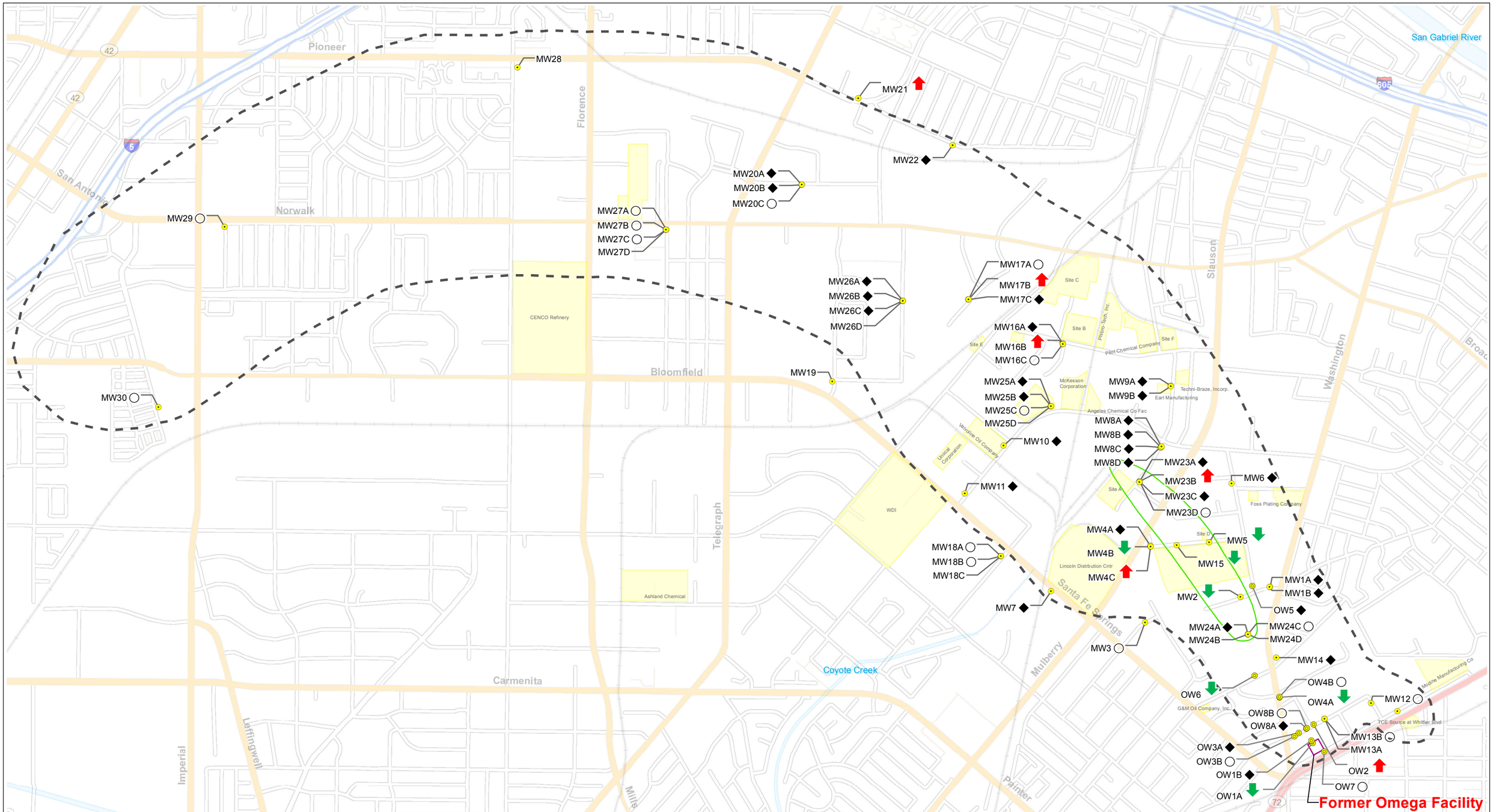
N

0 1000 2000 Feet

Figure 16
Freon 113 Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\F113_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

TCLME Contour Line

- 80 ug/L (March 2009)

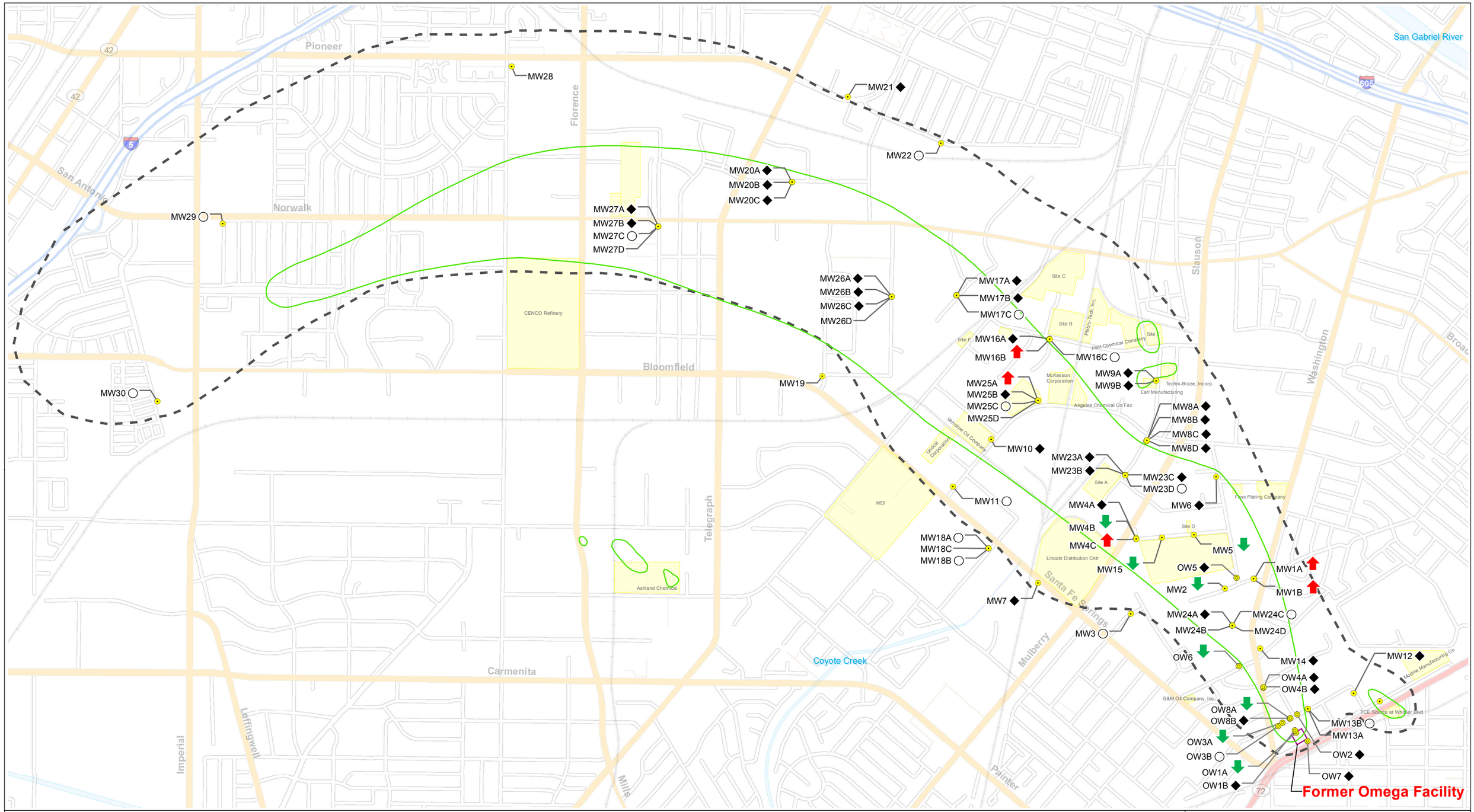
N

0 1000 2000 Feet

Figure 17
Trichloromethylene Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\TCLME_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

1,1 DCE Contour Line

- 6 ug/L (March 2009)

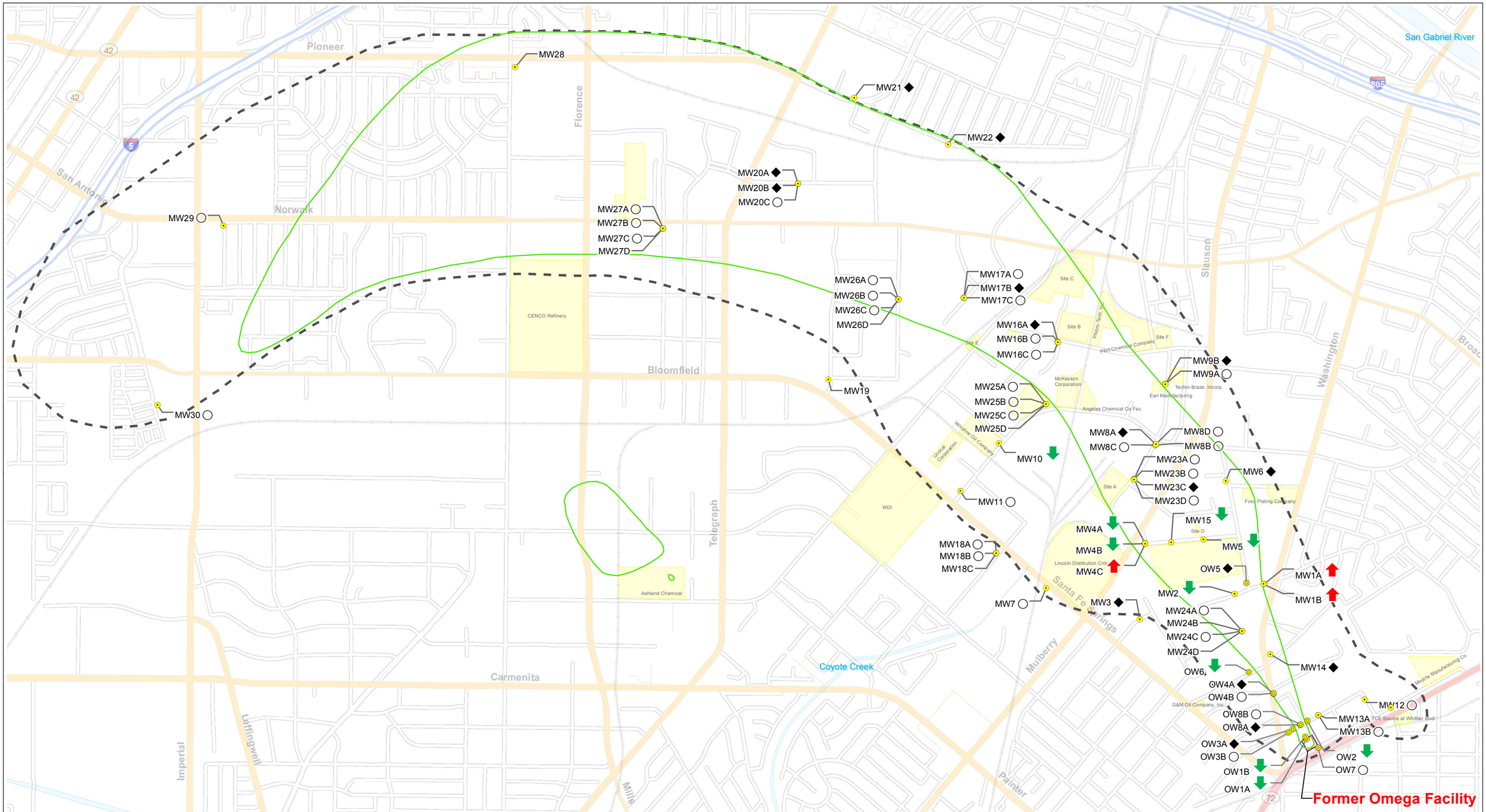
N

0 1000 2000 Feet

Figure 18
1,1 DCE Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\11DCE_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

1,4 Dioxane Contour Line

- 3 ug/L (March 2009)

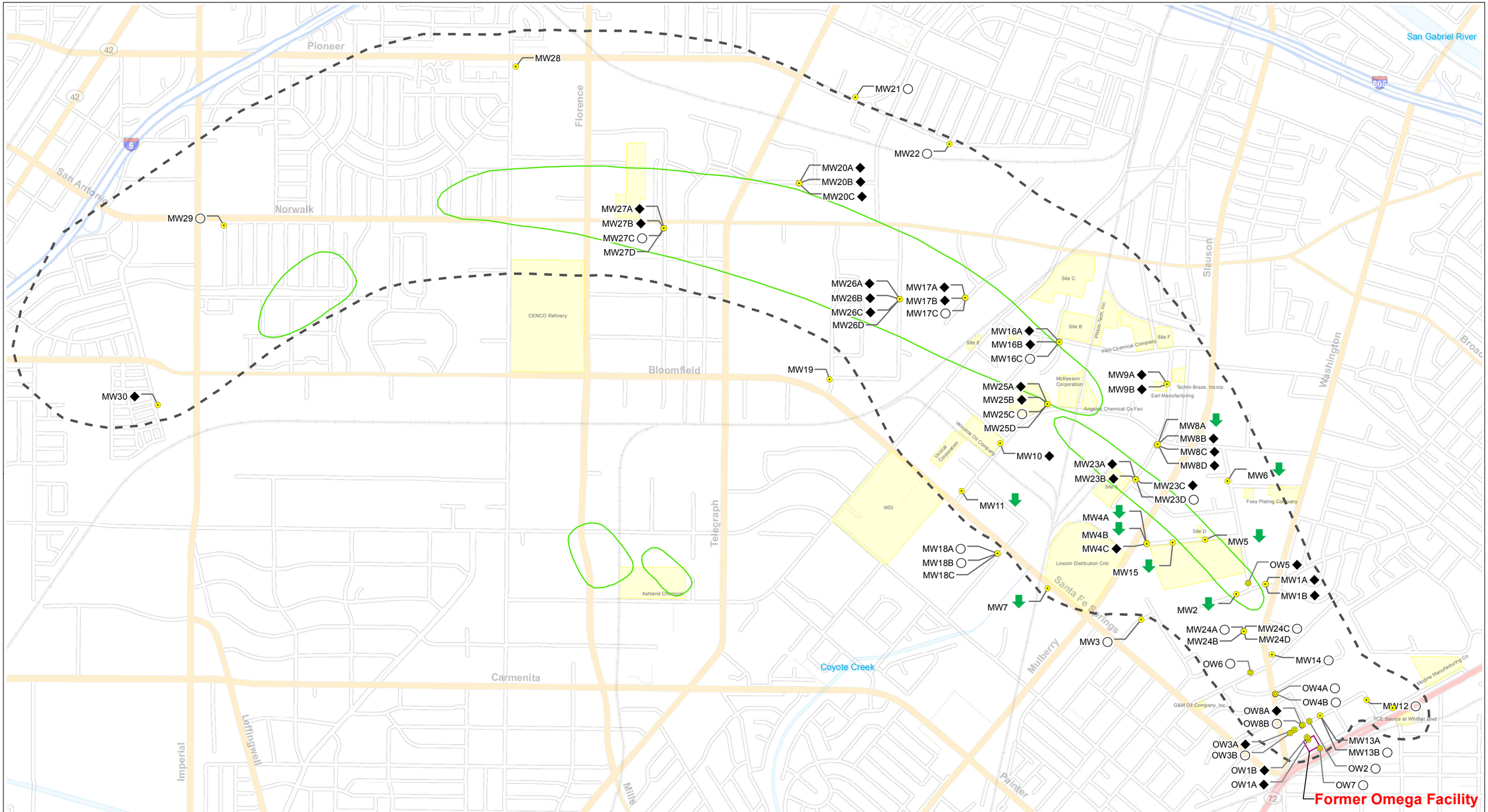
N

0 1000 2000 Feet

Figure 19
1,4 DioxaneTemporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\14Dioxane_Omega_MTRX_Trend.mxd



Legend

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group(OPOG) Monitoring Well

Trend

- Increasing
- Decreasing
- No Trend
- Not Sufficient Data

- OU2 Outline
- Approximate Boundary of Facilities
- Former Omega Facility

cis-1,2 DCE Contour Line

- 6 ug/L (March 2009)

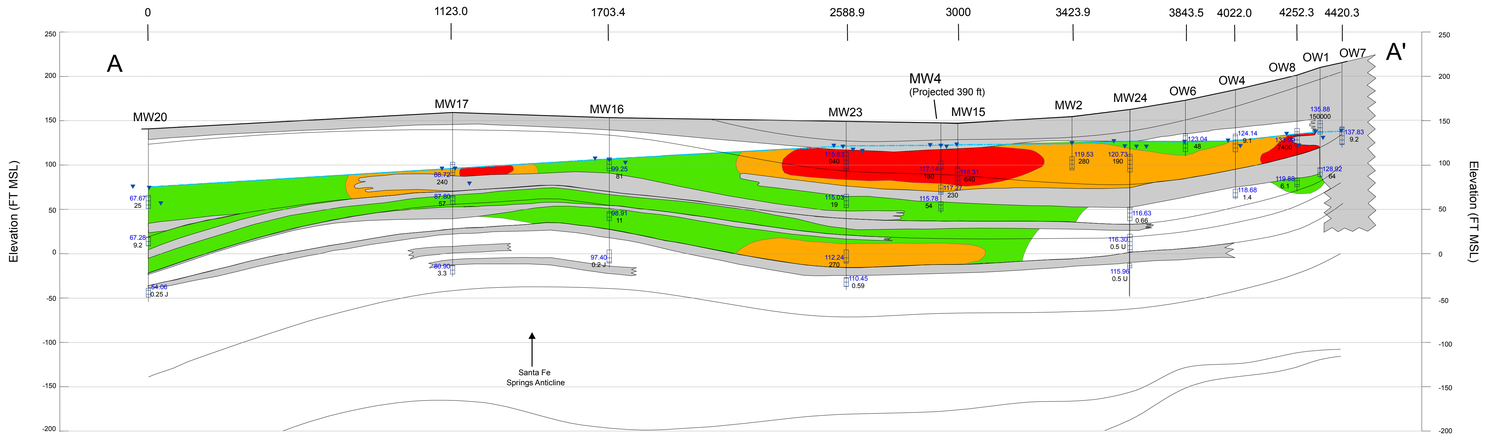
N

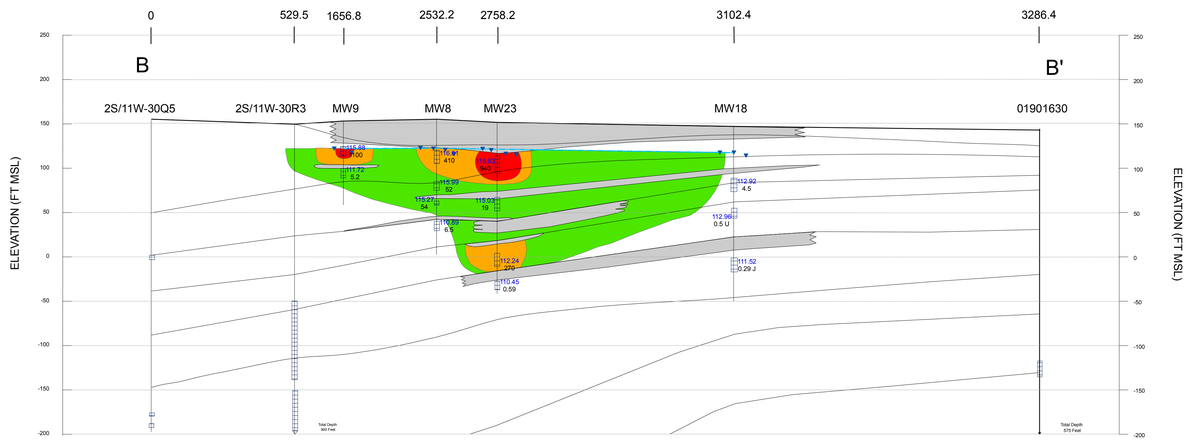
0 1000 2000 Feet

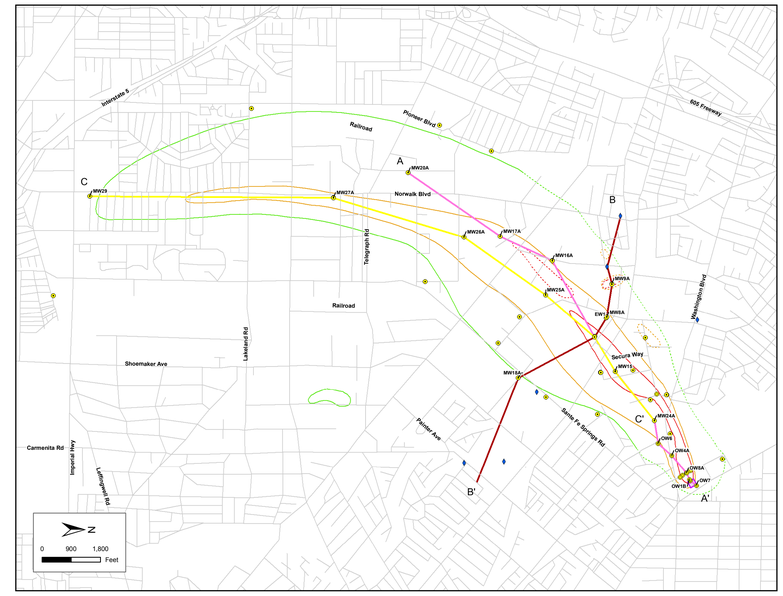
Figure 20
cis-1,2 DCE Temporal Trend Distribution
Omega Chemical Superfund Site

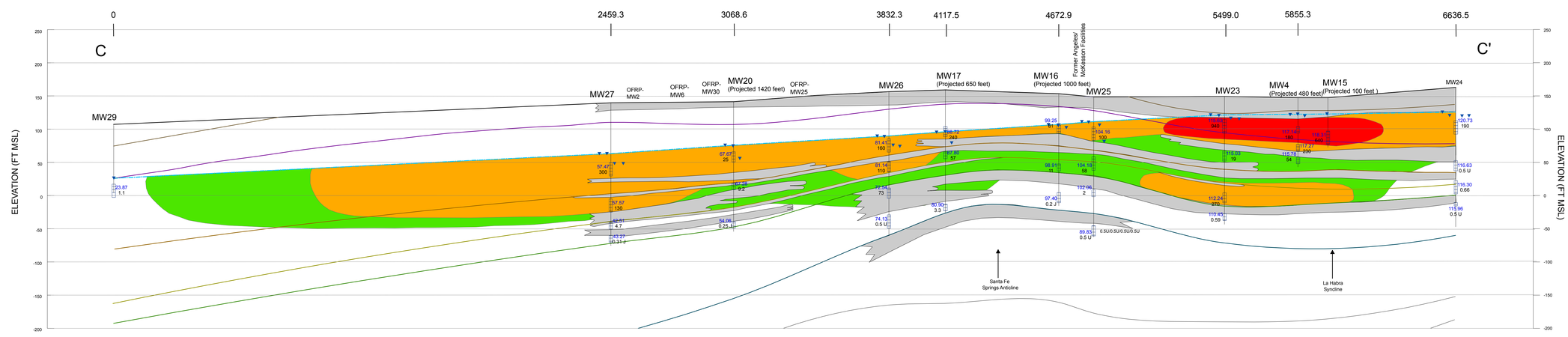
CH2MHILL

Path: Y:\2009-CH2Mhill\Omega\Omega_MTRX_Trend\Mxd\CIS12DCE_Omega_MTRX_Trend.mxd









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit

Water Level
- ▼ Water Level Elevation (ft msl)
- Water Table
- Stratigraphic Boundaries

PCE Distribution
- > 5 ug/L
- > 100 ug/L
- > 500 ug/L

Concentration
- 120.25 Water Level (ft msl)
- 25 Concentration (ug/L)

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties
- Organized Group (OPOG) Monitoring Well
- Production Well

Cross Section
- AA'
- BB'
- CC'

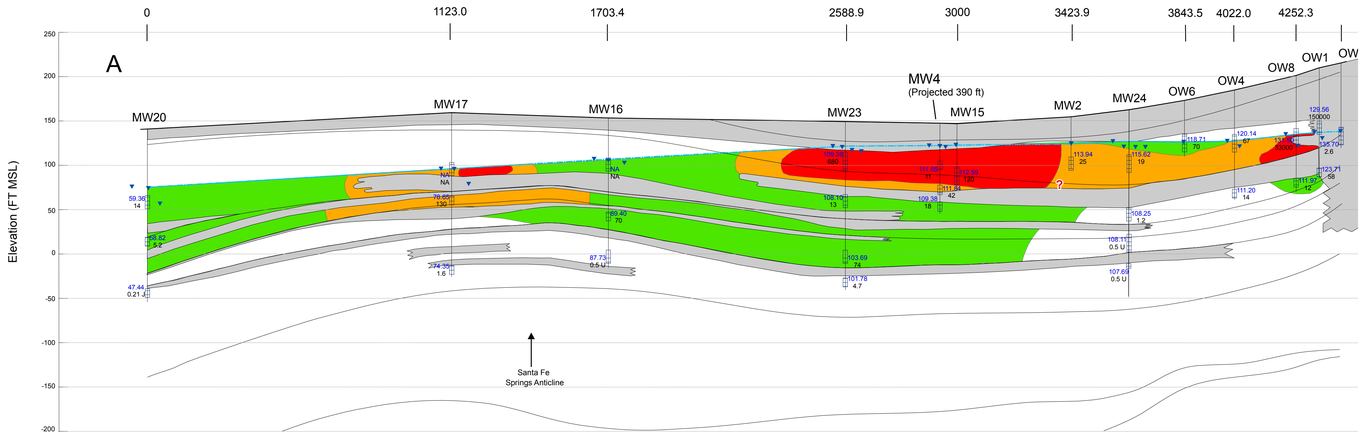
Composite PCE Plume Extent
- 5 ug/L (Dashed where Approximate)
- 100 ug/L (Dashed where Approximate)
- 500 ug/L (Dashed where Approximate)
- Former Omega Facility

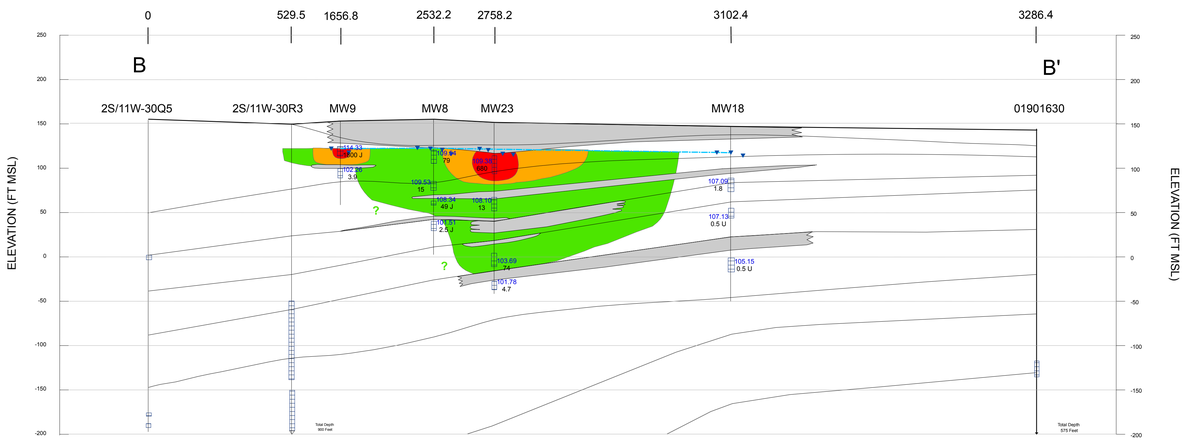
Notes:
1) U = Non-Detect; J = Estimated Value; R = Rejected Value
2) SB - Stratigraphic Boundary
3) FT MSL = Feet Above Mean Sea Level
4) Smooth (finger-like) lateral termination of fine-grained units represents facies change into coarse-grained material. Jagged termination is used when extent is unknown.

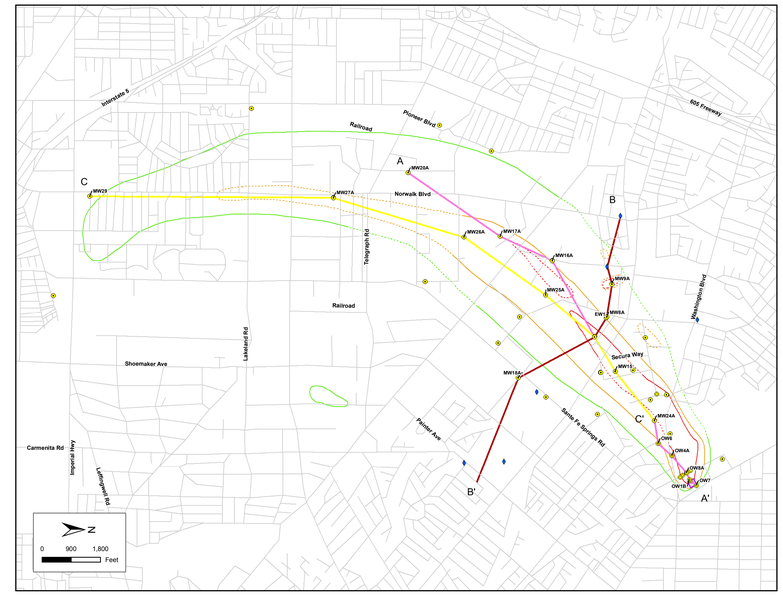
Figure 3-21a
Vertical Distribution of PCE - Q1 2008
Omega Chemical Superfund Site

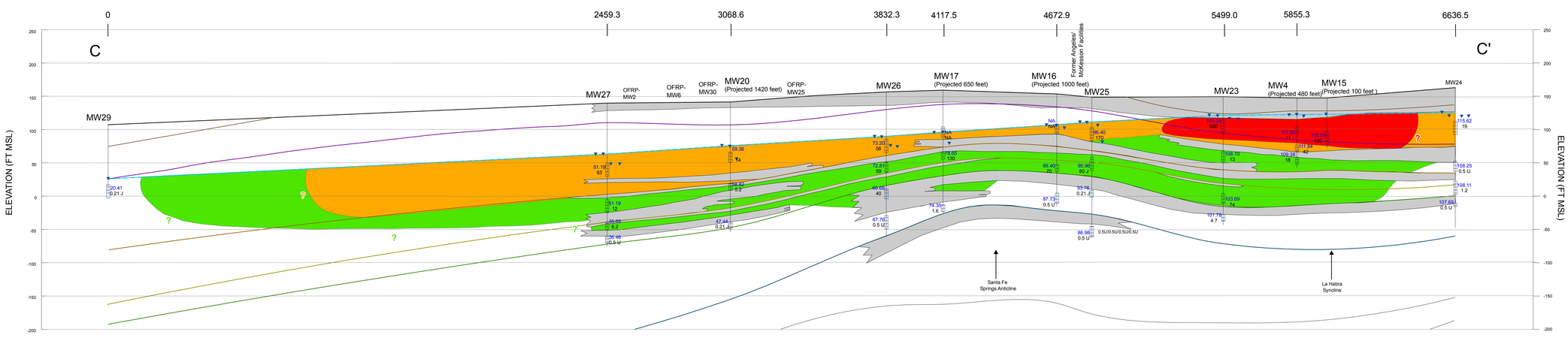
CH2MHILL

Date: May 2011









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit

Water Level
- Water Level Elevation (ft msl)
- Water Table
- Stratigraphic Boundaries

PCE Distribution
- > 5 ug/L
- > 100 ug/L
- > 500 ug/L

Concentration
120.25 Water Level (ft msl)
25 Concentration (ug/L)

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties
- Organized Group (OPOG) Monitoring Well
- Production Well

Cross Section
- AA'
- BB'
- CC'

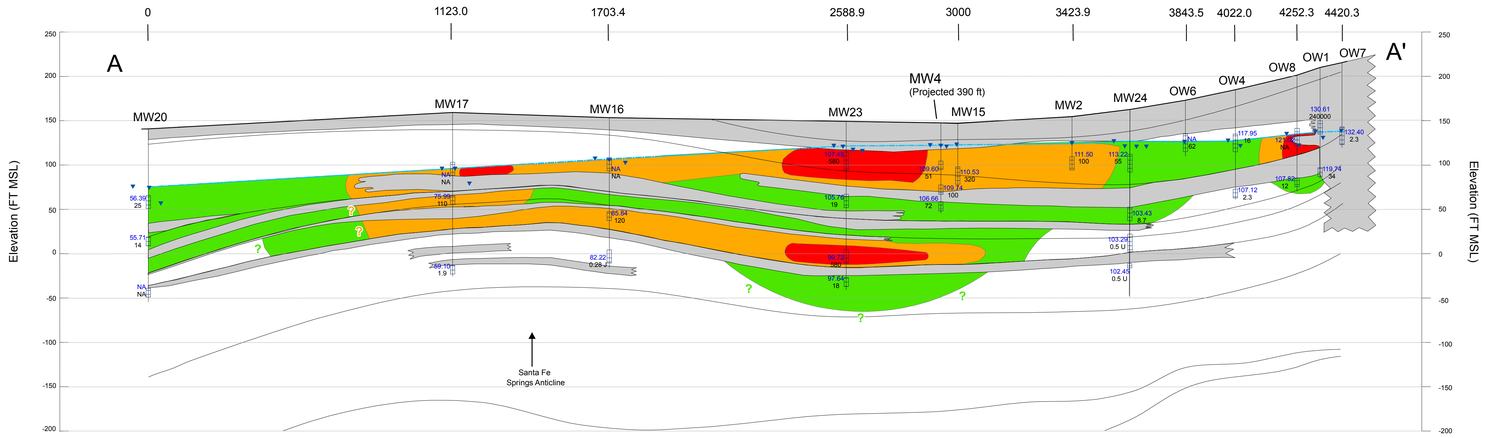
Composite PCE Plume Extent
- 5 ug/L (Dashed where Approximate)
- 100 ug/L (Dashed where Approximate)
- 500 ug/L (Dashed where Approximate)
- Former Omega Facility

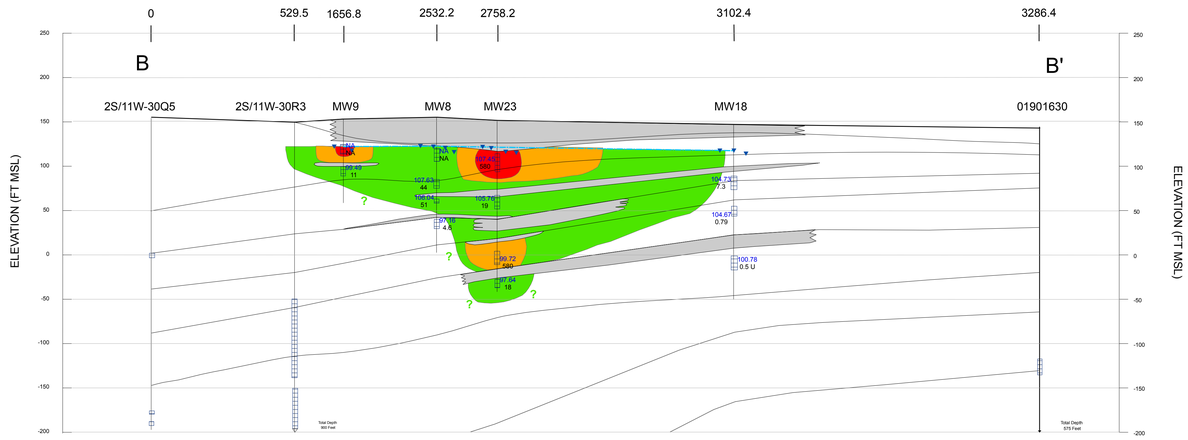
Notes:
1) U = Non-Detect; J = Estimated Value; R = Rejected Value
2) SB - Stratigraphic Boundary
3) FT MSL = Feet Above Mean Sea Level
4) Smooth (finger-like) lateral termination of fine-grained units represents facies change into coarse-grained material. Jagged termination is used when extent is unknown.

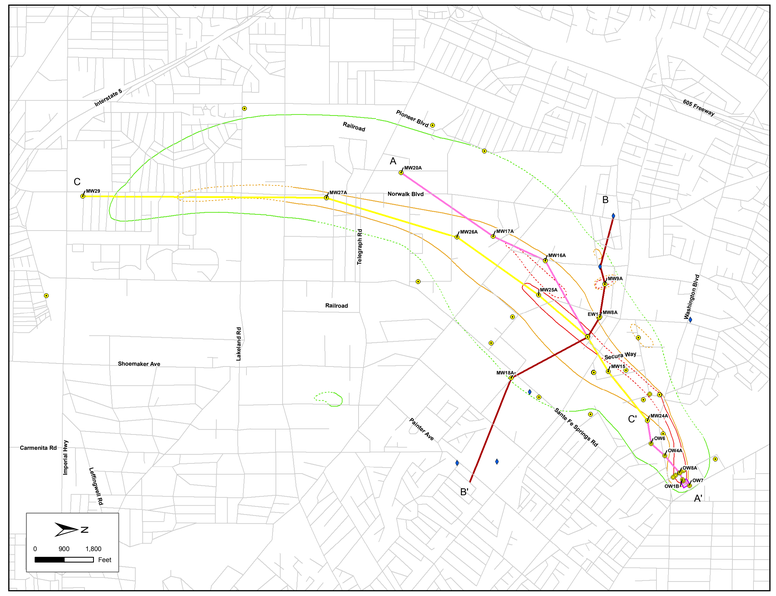
Figure 3-21b
Vertical Distribution of PCE - Q1 2009
Omega Chemical Superfund Site

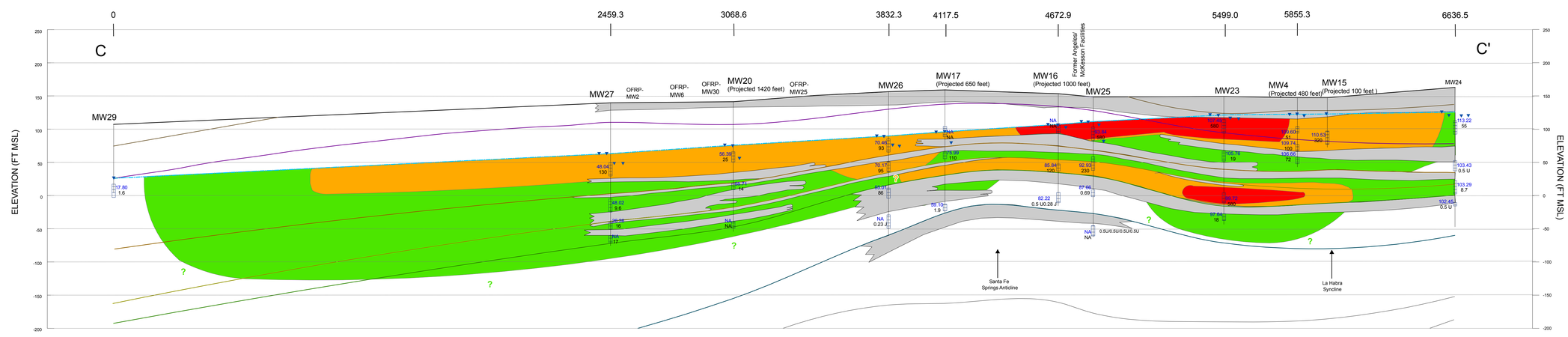
CH2MHILL

Date: May 2011









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit

Water Level
- Water Level Elevation (ft msl)
- Water Table
- Stratigraphic Boundaries

PCE Distribution
- > 5 ug/L
- > 100 ug/L
- > 500 ug/L

Concentration
120.25 Water Level (ft msl)
25 Concentration (ug/L)

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties
- Organized Group (OPOG) Monitoring Well
- Production Well

Cross Section
- AA'
- BB'
- CC'

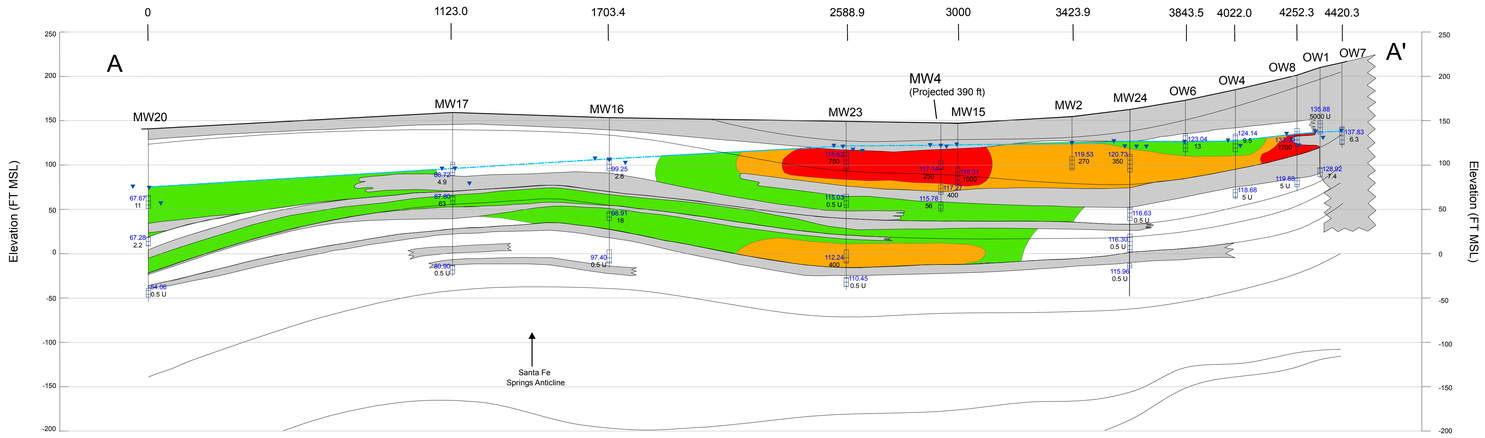
Composite PCE Plume Extent
- 5 ug/L (Dashed where Approximate)
- 100 ug/L (Dashed where Approximate)
- 500 ug/L (Dashed where Approximate)
- Former Omega Facility

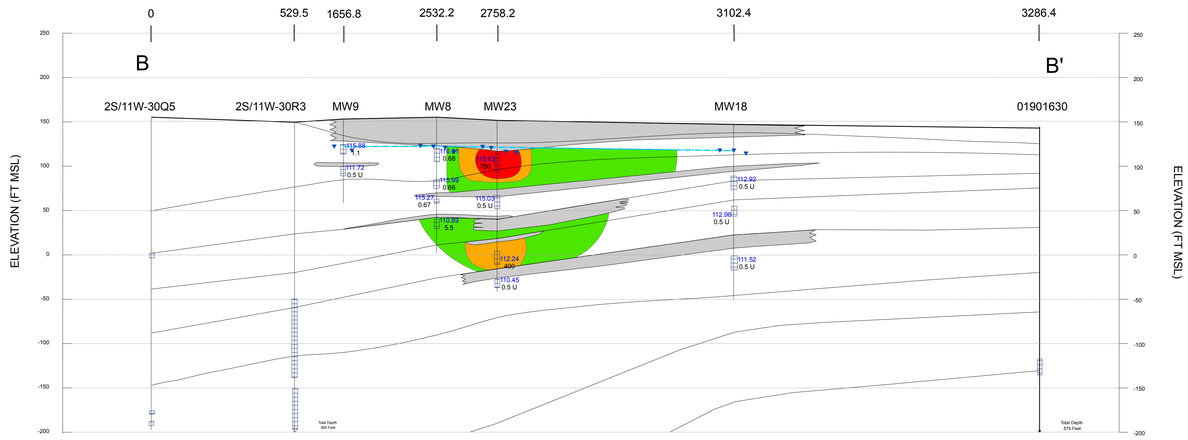
Notes:
1) U = Non-Detect; J = Estimated Value; R = Rejected Value
2) SB - Stratigraphic Boundary
3) FT MSL = Feet Above Mean Sea Level
4) Smooth (finger-like) lateral termination of fine-grained units represents facies change into coarse-grained material. Jagged termination is used when extent is unknown.

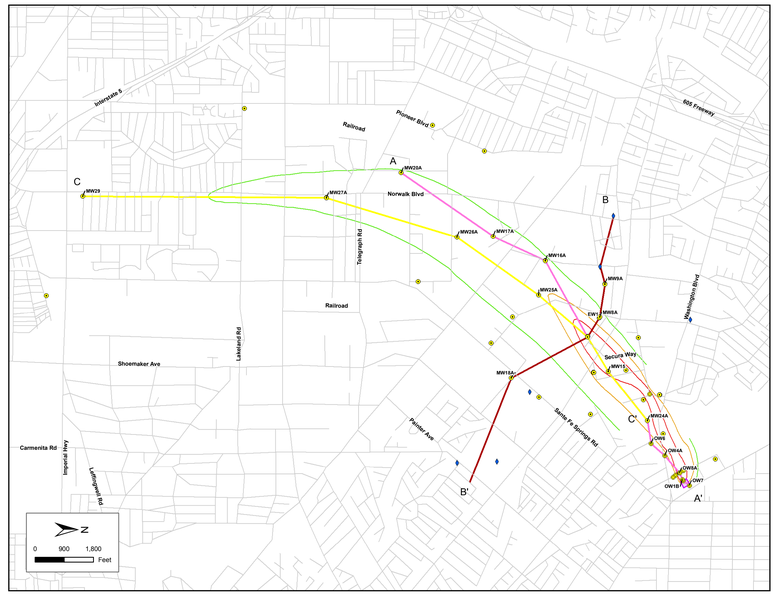
Figure 3-21c
Vertical Distribution of PCE - Q3 2009
Omega Chemical Superfund Site

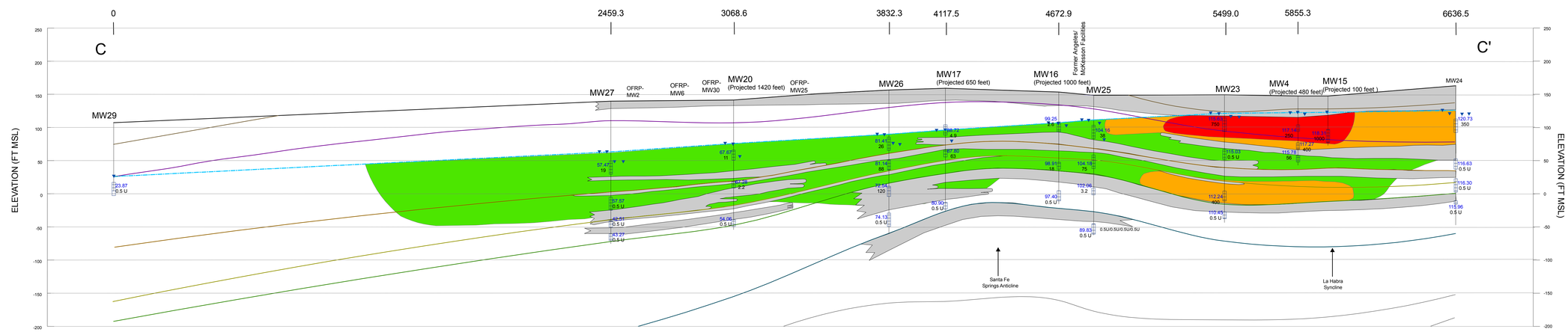
CH2MHILL

Date: May 2011









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit

Water Level
- ▼ Water Level Elevation (ft msl)
- Water Table
- Stratigraphic Boundaries

F113 Distribution
- > 5 ug/L
- > 150 ug/L
- > 500 ug/L

Concentration
- 120.25 Water Level (ft msl)
- 25 Concentration (ug/L)

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties
- Organized Group (OPOG) Monitoring Well
- Production Well

Cross Section
- AA'
- BB'
- CC'

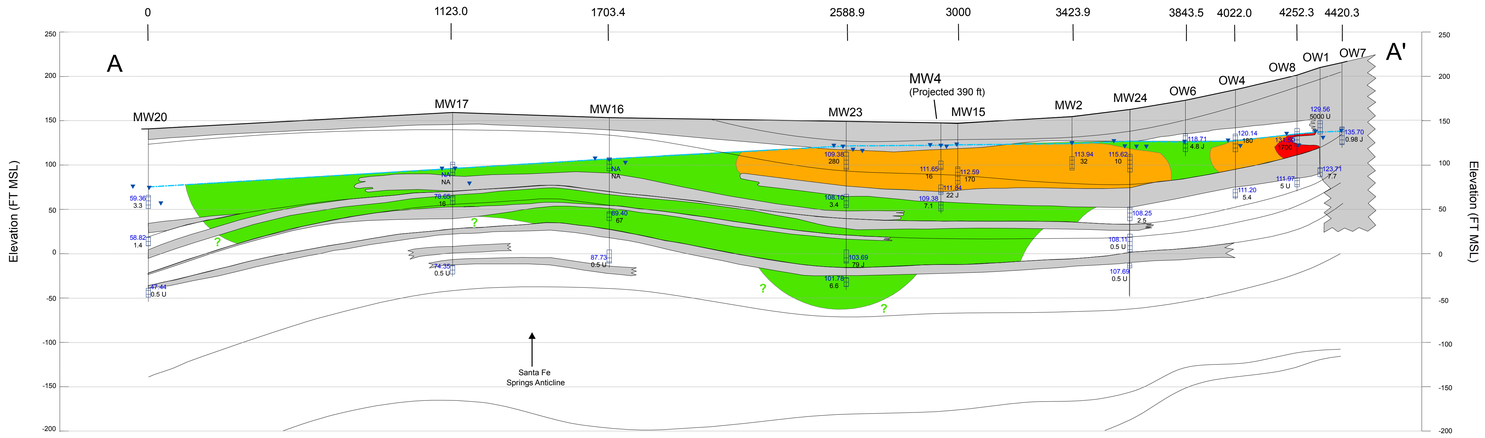
Composite Freon113 Plume Extent
- 5 ug/L (Dashed where Approximate)
- 150 ug/L (Dashed where Approximate)
- 500 ug/L (Dashed where Approximate)
- Former Omega Facility

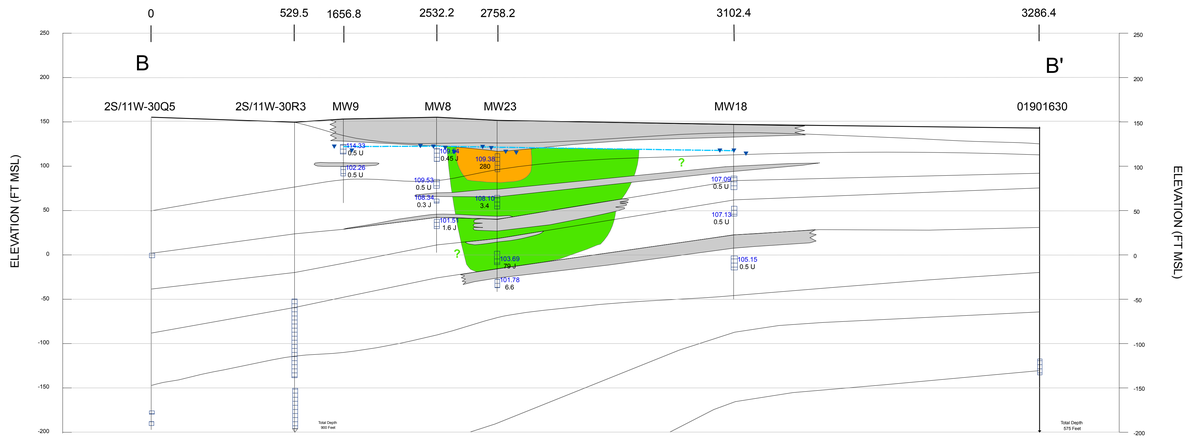
Notes:
1) U = Non-Detect; J = Estimated Value; R = Rejected Value
2) SB - Stratigraphic Boundary
3) FT MSL = Feet Above Mean Sea Level
4) Smooth (finger-like) lateral termination of fine-grained units represents facies change into coarse-grained material. Jagged termination is used when extent is unknown.

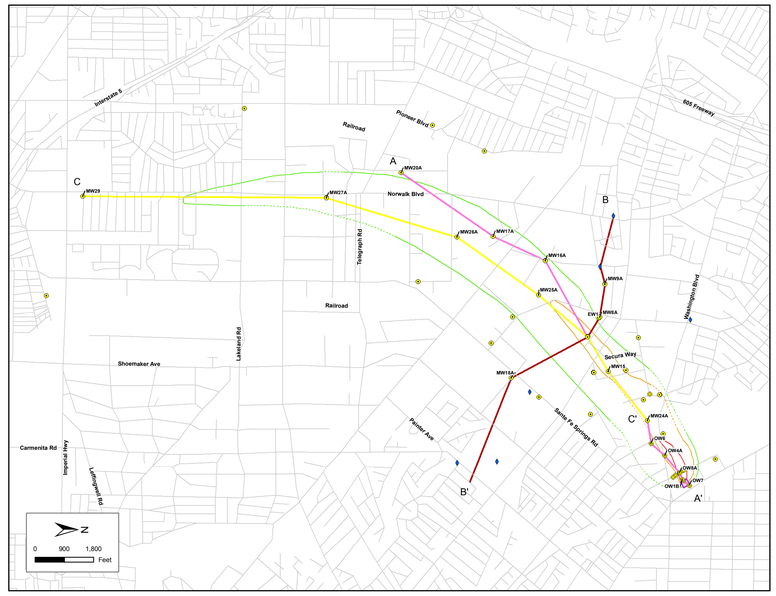
Figure 3-22a
Vertical Distribution of Freon113 - Q1 2008
Omega Chemical Superfund Site

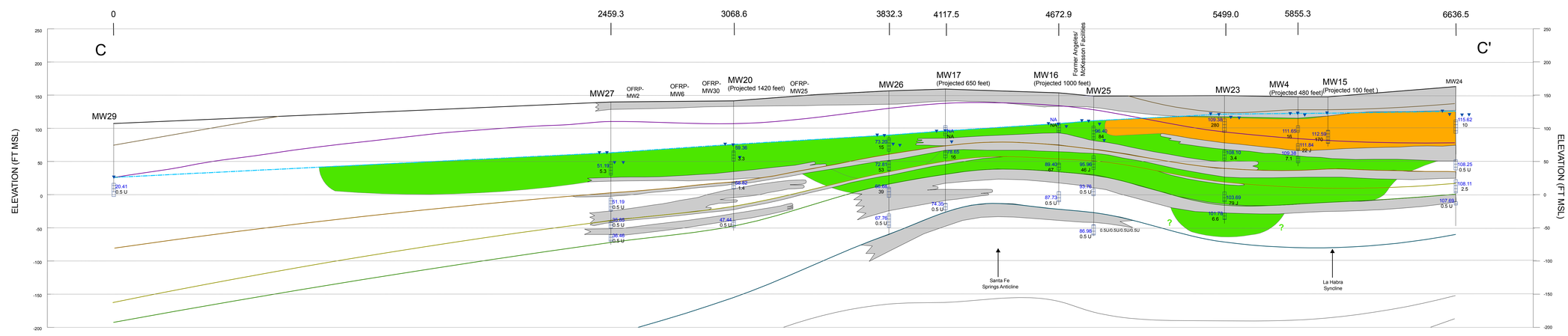
CH2MHILL

Date: May 2011









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit

Water Level
- ▼ Water Level Elevation (ft msl)
- Water Table
- Stratigraphic Boundaries

F113 Distribution
- > 5 ug/L
- > 150 ug/L
- > 500 ug/L

Concentration
- 120.25 Water Level (ft msl)
- 25 Concentration (ug/L)

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties
- Organized Group (OPOG) Monitoring Well
- Production Well

Cross Section
- AA'
- BB'
- CC'

Composite Freon113 Plume Extent
- 5 ug/L (Dashed where Approximate)
- 150 ug/L (Dashed where Approximate)
- 500 ug/L (Dashed where Approximate)
- Former Omega Facility

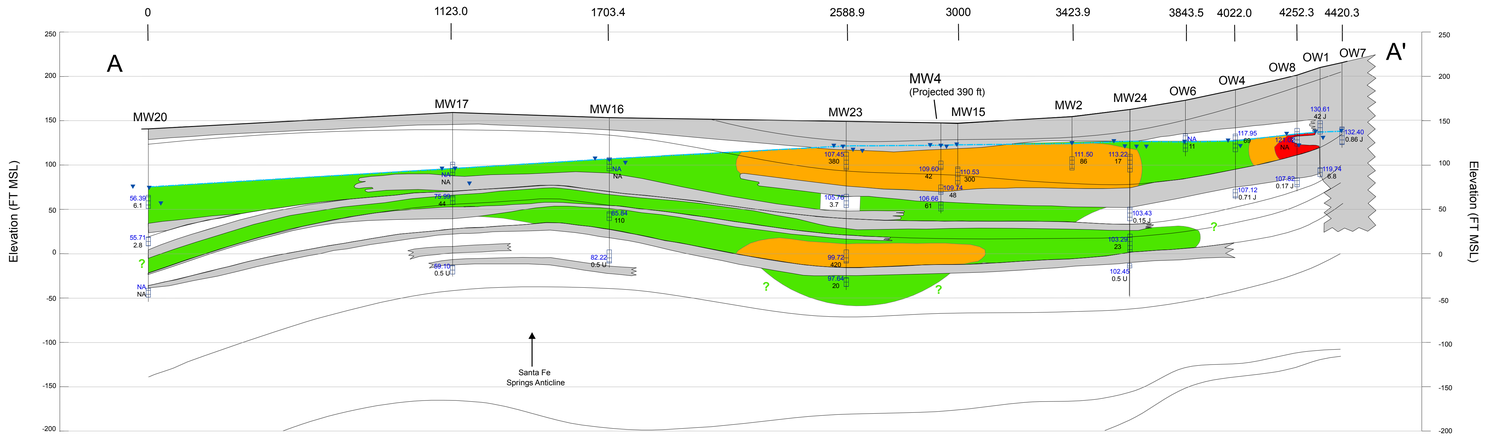
Notes:
1) U = Non-Detect; J = Estimated Value; R = Rejected Value
2) SB - Stratigraphic Boundary
3) FT MSL = Feet Above Mean Sea Level
4) Smooth (finger-like) lateral termination of fine-grained units represents facies change into coarse-grained material. Jagged termination is used when extent is unknown.

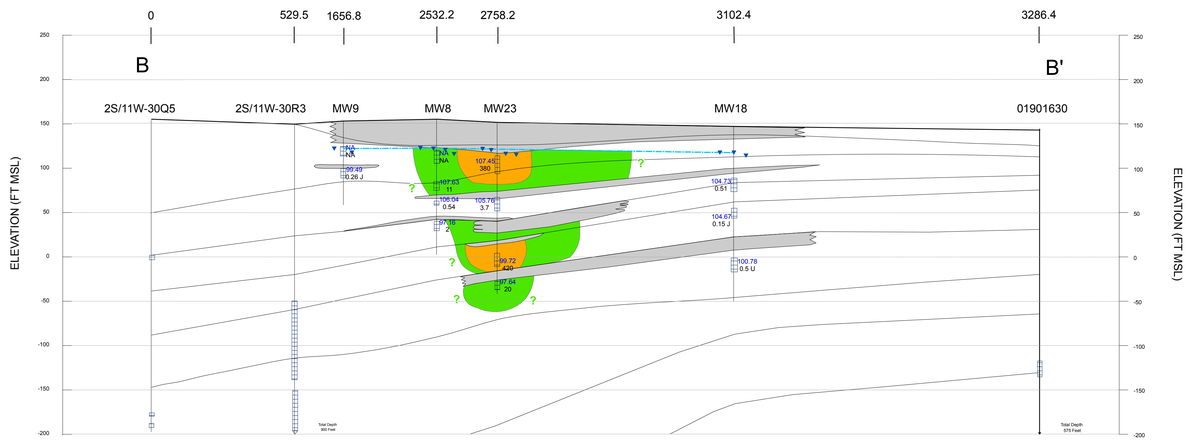
Figure 3-22b
Vertical Distribution of Freon113 - Q1 2009

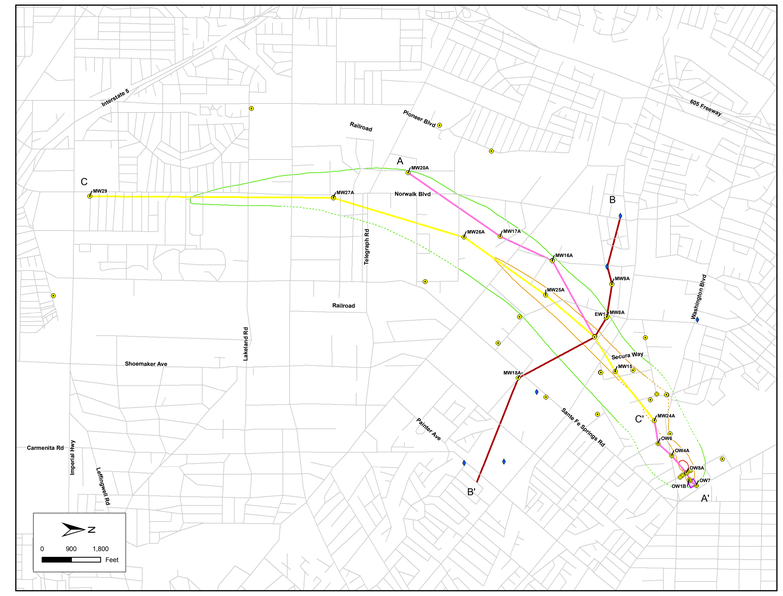
Omega Chemical Superfund Site

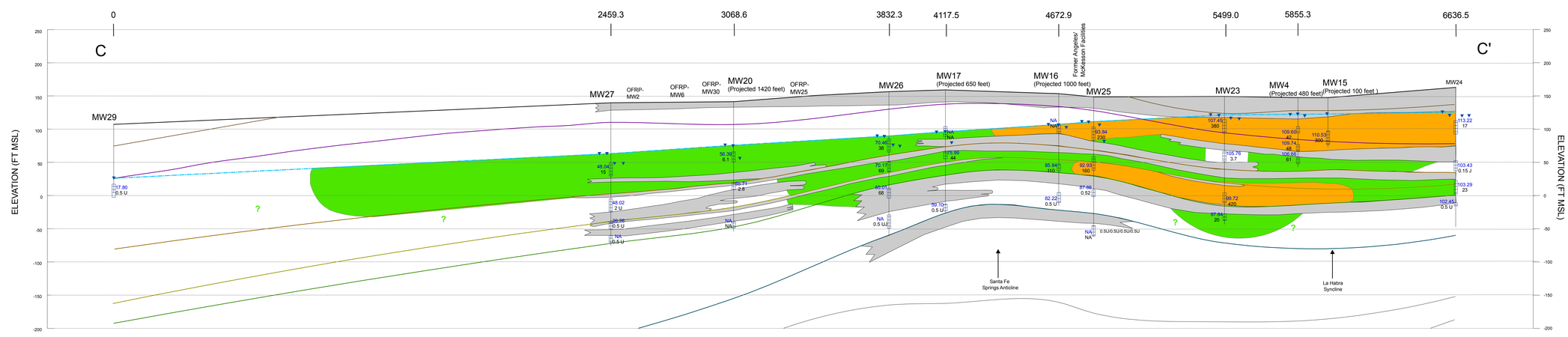
CH2MHILL

Date: May 2011









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit

Water Level
- Water Level Elevation (ft msl)
- Water Table
- Stratigraphic Boundaries

F113 Distribution
- > 5 ug/L
- > 150 ug/L
- > 500 ug/L

Concentration
- 120.25 Water Level (ft msl)
- 25 Concentration (ug/L)

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties
- Organized Group (OPOG) Monitoring Well
- Production Well

Cross Section
- AA'
- BB'
- CC'

Composite Freon113 Plume Extent
- 5 ug/L (Dashed where Approximate)
- 150 ug/L (Dashed where Approximate)
- 500 ug/L (Dashed where Approximate)
- Former Omega Facility

Notes:
1) U = Non-Detect; J = Estimated Value; R = Rejected Value
2) SB - Stratigraphic Boundary
3) FT MSL = Feet Above Mean Sea Level
4) Smooth (finger-like) lateral termination of fine-grained units represents facies change into coarse-grained material. Jagged termination is used when extent is unknown.

Figure 3-22c
Vertical Distribution of Freon113 - Q3 2009

Omega Chemical Superfund Site

CH2MHILL

Date: May 2011