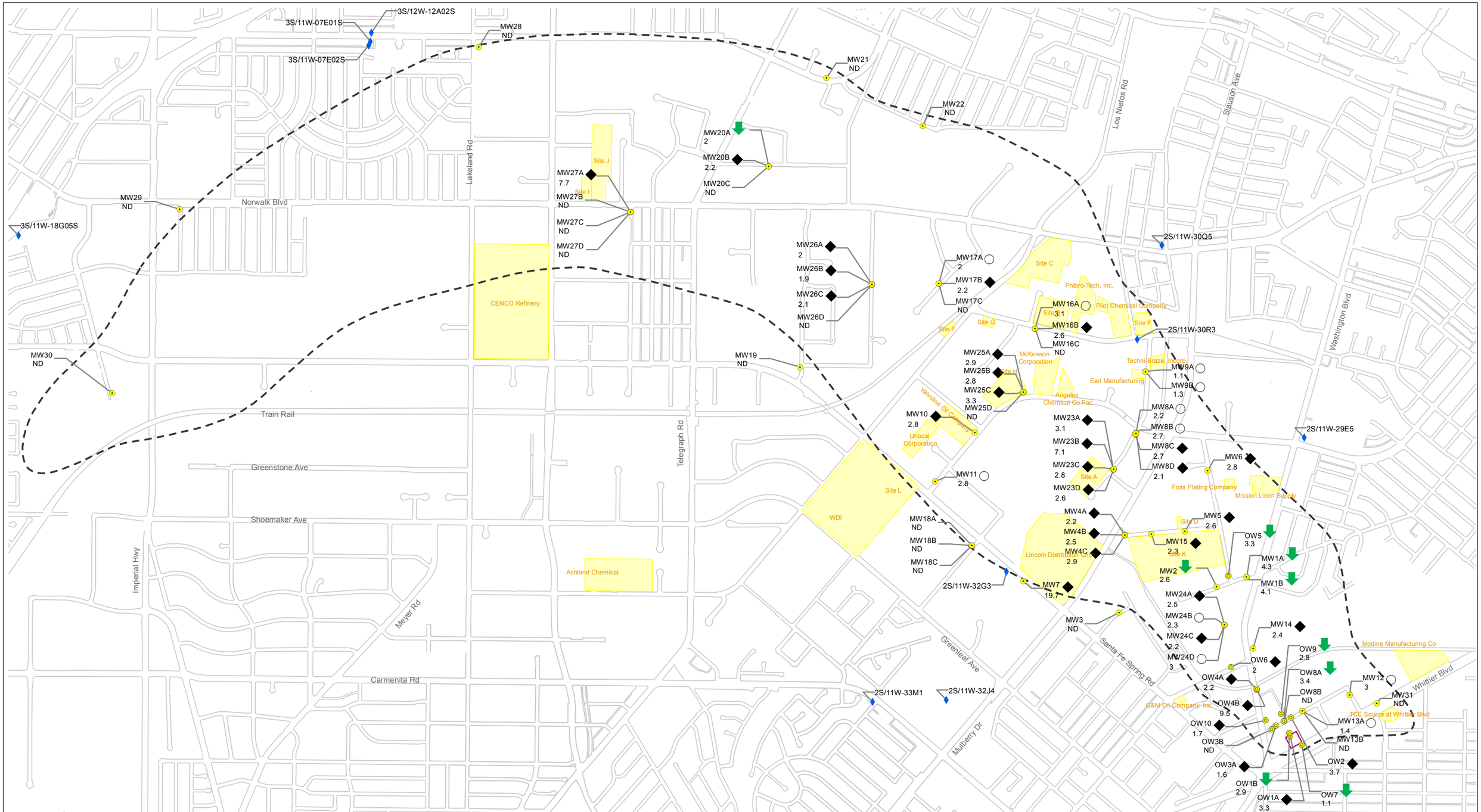


Legend

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

Freon 113 to Freon 11 Ratios Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Notes:
1) Posted values are mean Freon 113 to Freon 11 ratios from historical detected concentration data.
2) Detected concentration data include analytical results flagged as J and E.
3) ND - Freon 113 and/or Freon 11 was not detected historically.
4) Trends were run for wells with greater than four unique Freon ratio records.

N

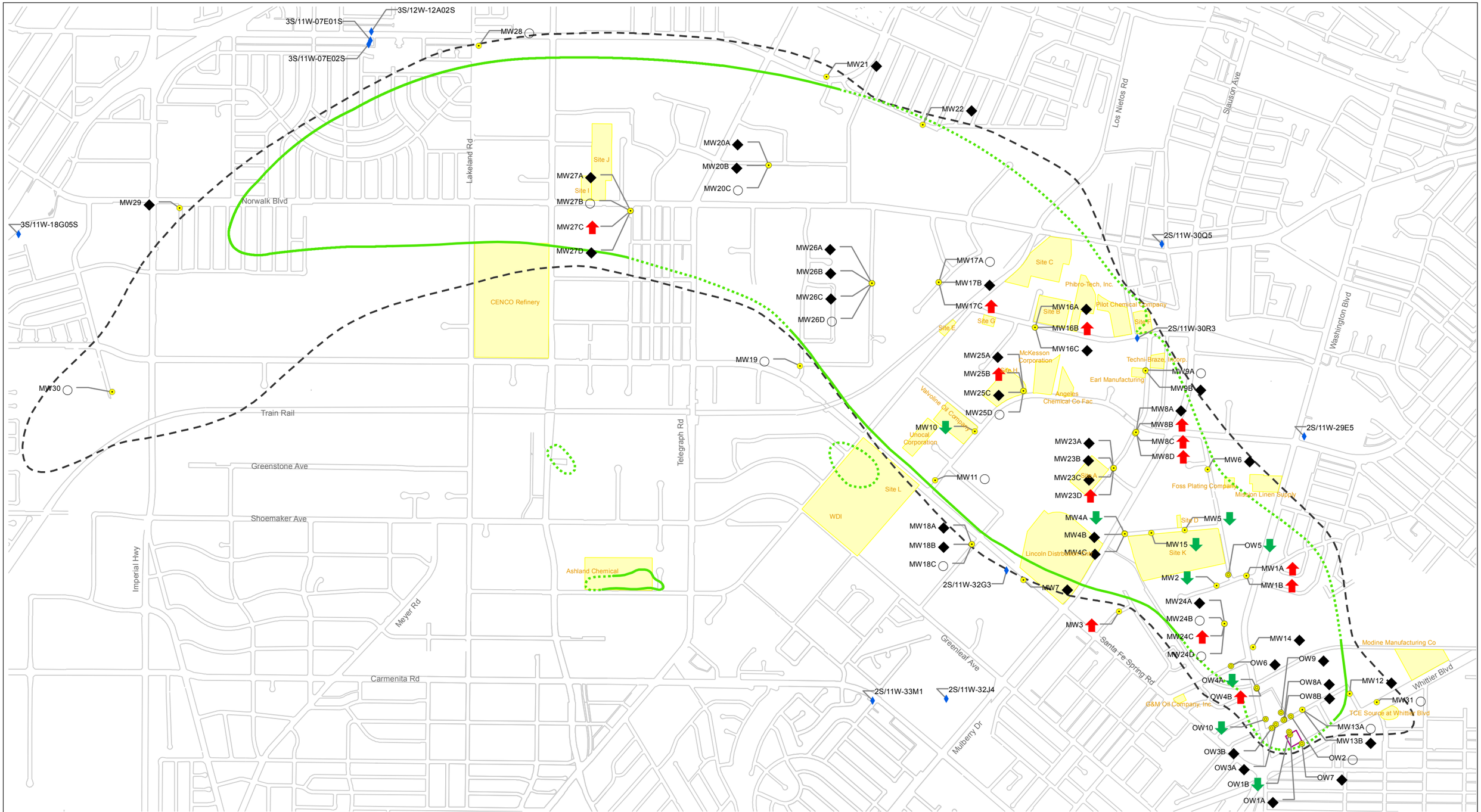
0 750 1,500
Feet

Figure 3-12
Freon 113 to Freon 11 Ratios

Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Freon Ratios\Figure_3-12_Freon_113_to_Freon_11_Ratios_final.mxd



Legend

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

PCE Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite PCE Plume Extent (First Quarter 2011)

5 µg/L (Dashed where approximated)

N

0 750 1,500

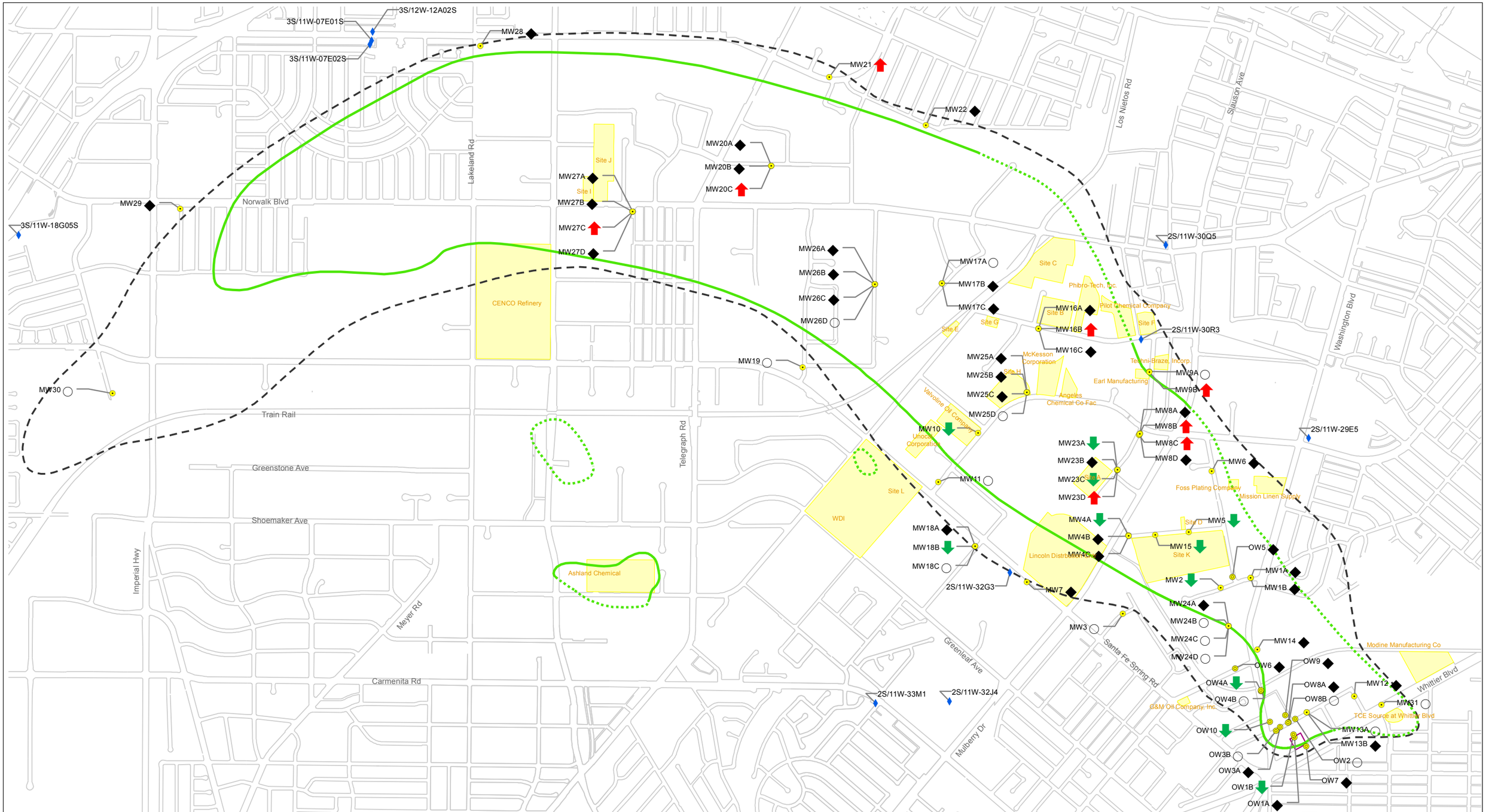
Feet

Figure 3-13
PCE Temporal Trend Distribution

Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-13_PCE_Temporal_Trend_Distribution_final.mxd



Legend

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

TCE Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite TCE Plume Extent (First Quarter 2011)

5 µg/L (Dashed where approximated)

N

0 750 1,500

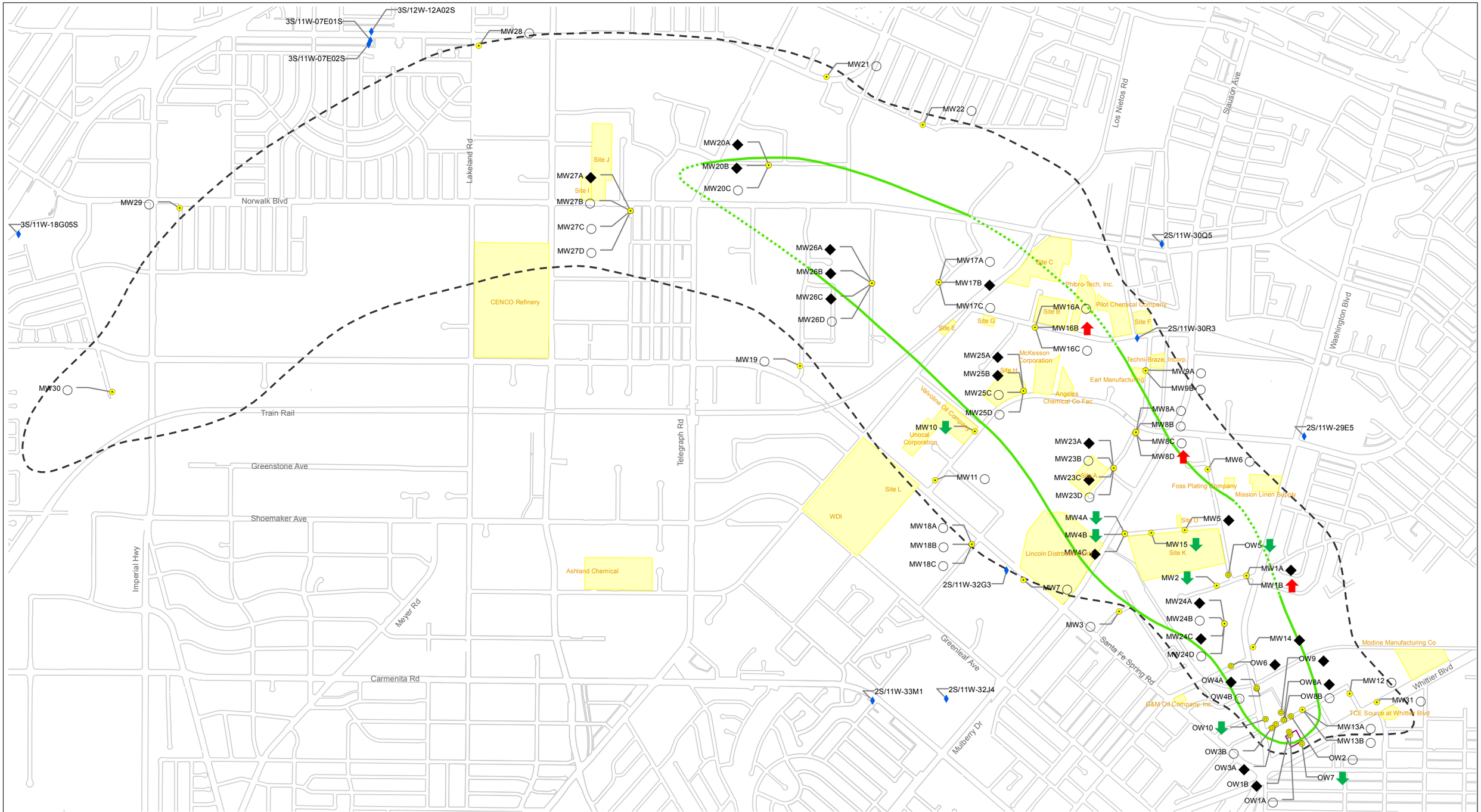
Feet

Figure 3-14
TCE Temporal Trend Distribution

Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-14_TCE_Temporal_Trend_Distribution_final.mxd



Legend

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

Freon 11 Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite Freon 11 Plume Extent (First Quarter 2011)

5 µg/L (Dashed where approximated)

N

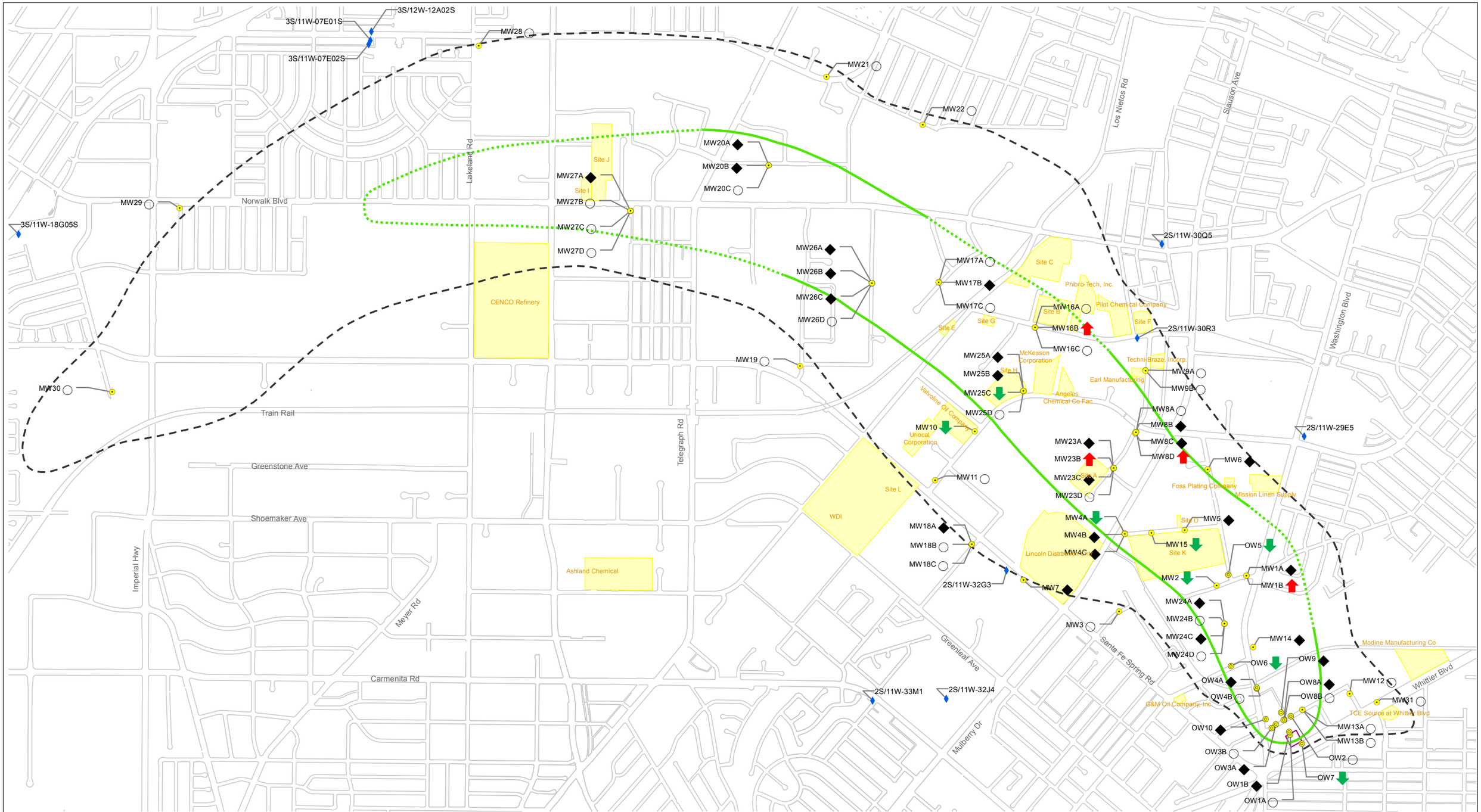
0 750 1,500

Feet

Figure 3-15
Freon 11 Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-15_Freon_11_Temporal_Trend_Distribution_final.mxd



Legend

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

Freon 113 Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite Freon 113 Plume Extent (First Quarter 2011)

5 µg/L (Dashed where approximated)

N

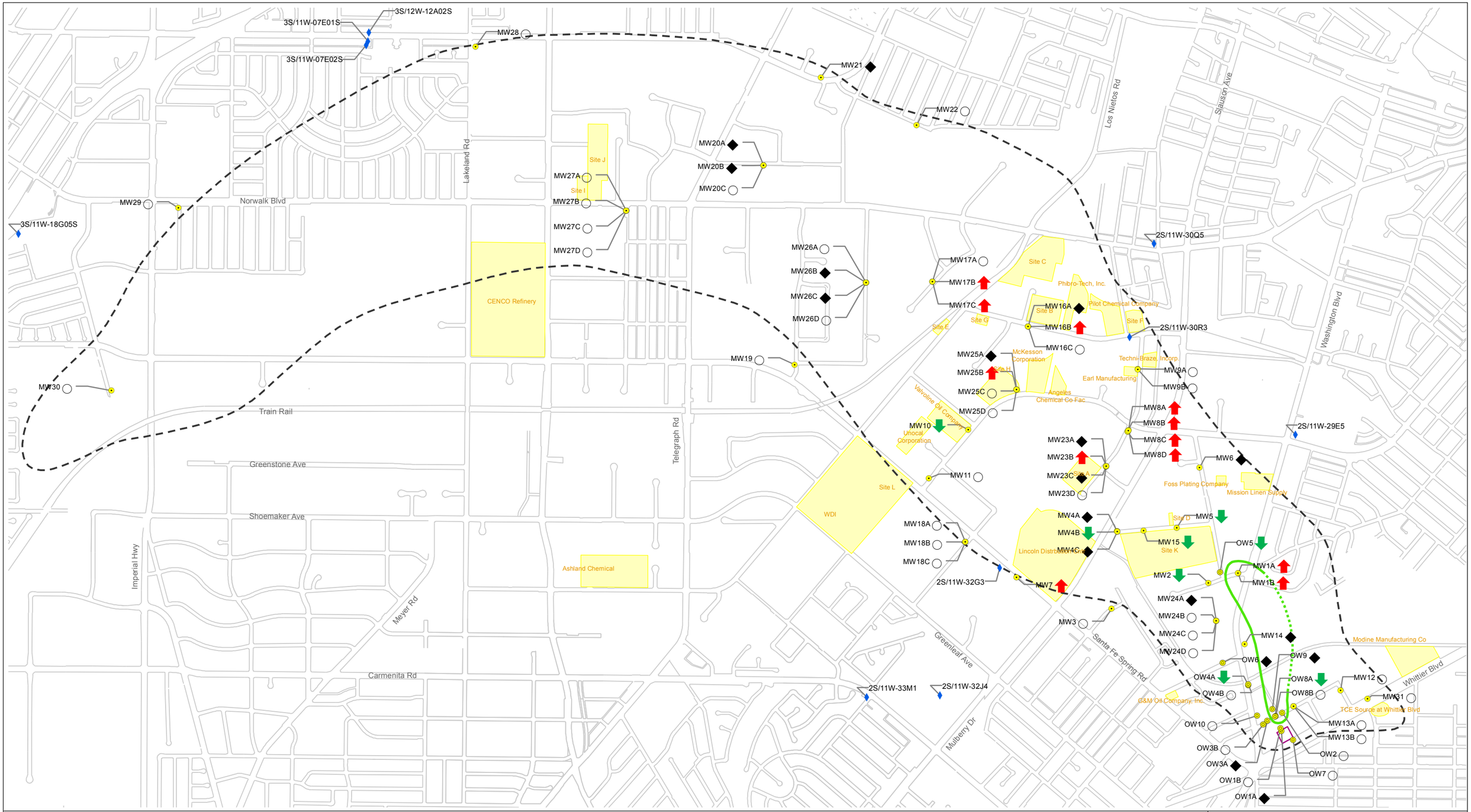
0 750 1,500

Feet

Figure 3-16
Freon 113 Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-16_Freon_113_Temporal_Trend_Distribution_final.mxd



Legend

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

Trichloromethylene Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite Trichloromethylene Plume Extent (First Quarter 2011)

80 µg/L (Dashed where approximated)

N

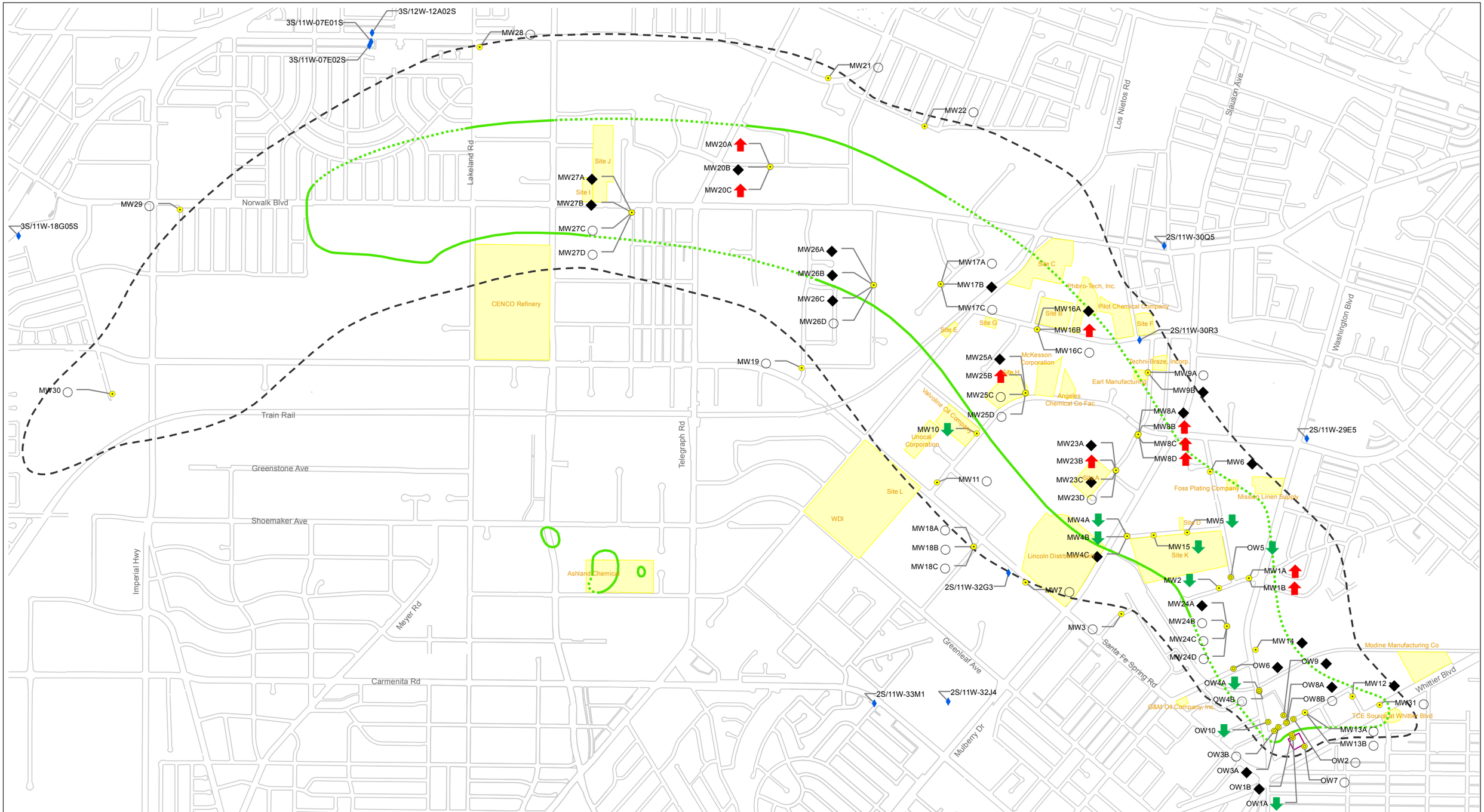
0 750 1,500

Feet

Figure 3-17
Trichloromethylene Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-17_Trichloromethylene_Temporal_Trend_Distribution_final.mxd



Legend

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

1,1-DCE Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite 1,1-DCE Plume Extent (First Quarter 2011)

6 µg/L (Dashed where approximated)

N

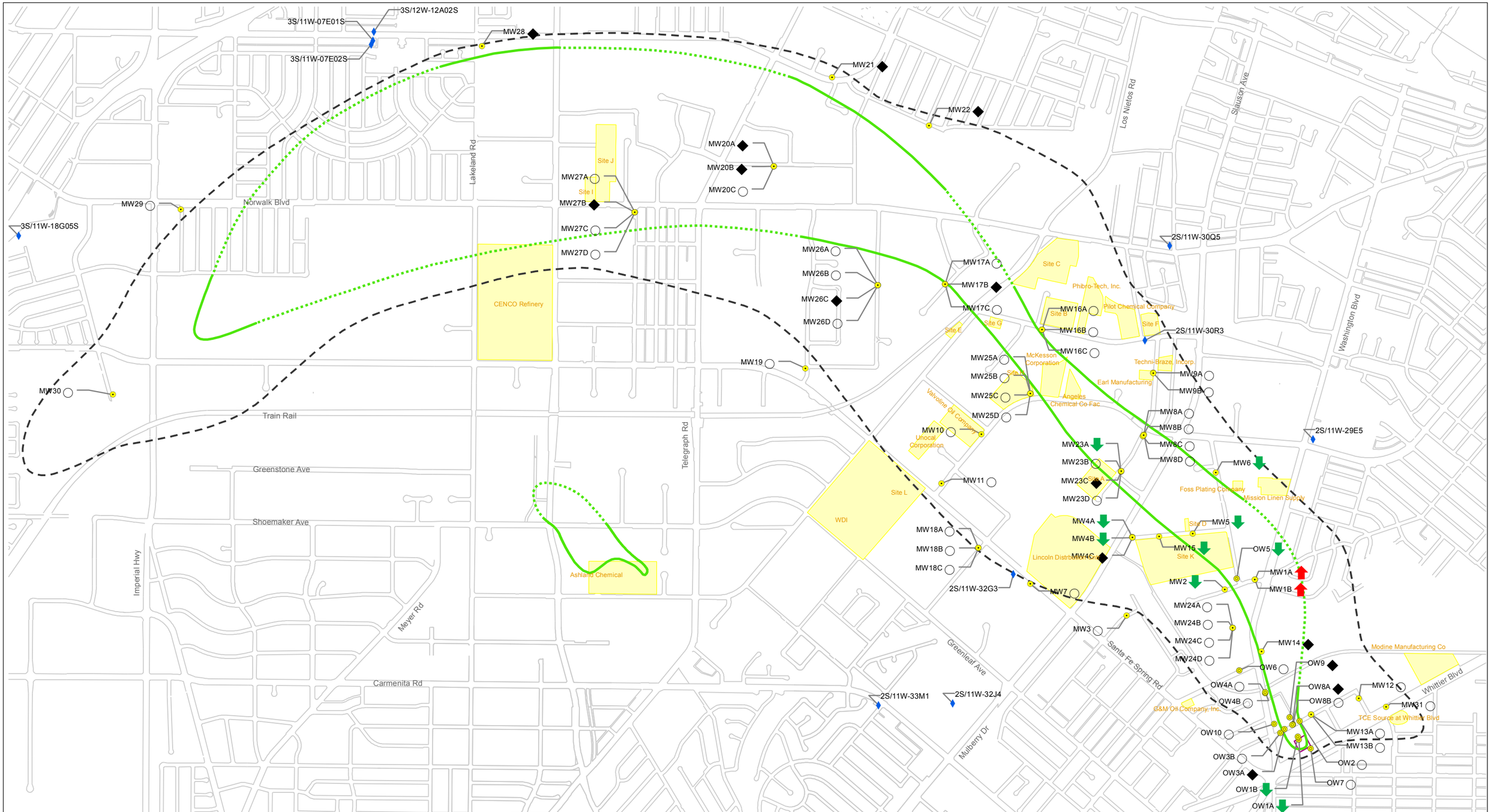
0 750 1,500

Feet

Figure 3-18
1,1-DCE Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-18_1,1_DCE_Temporal_Trend_Distribution_final.mxd



Legend

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

1,4-Dioxane Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite 1,4-Dioxane Plume Extent (First Quarter 2011)

3 µg/L (Dashed where approximated)

N

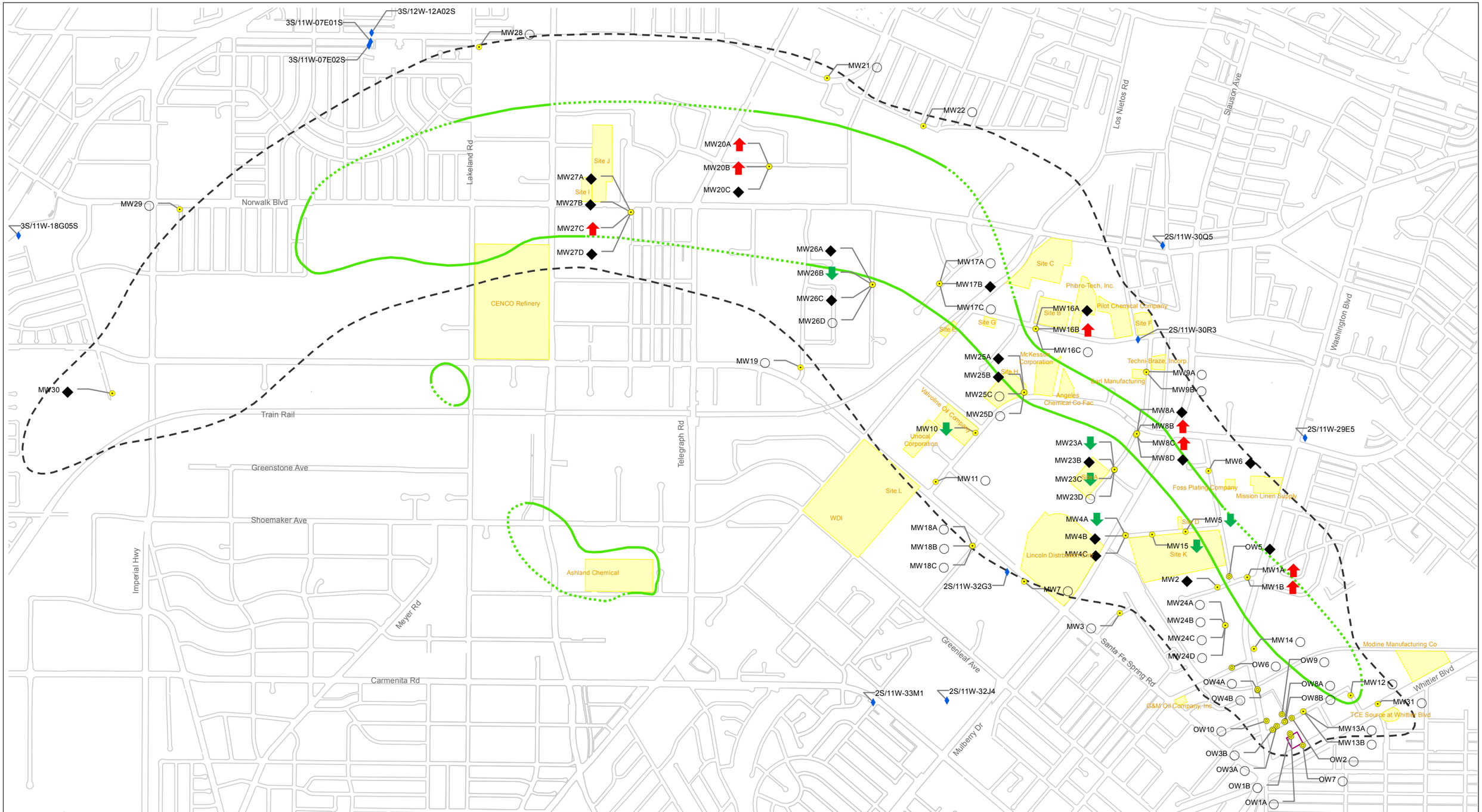
0 750 1,500

Feet

Figure 3-19
1,4-Dioxane Temporal Trend Distribution
Omega Chemical Superfund Site

CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-19_1,4_Dioxane_Temporal_Trend_Distribution_final.mxd



Legend

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

cis-1,2-DCE Temporal Trend

- Increasing
- Decreasing
- No Trend
- Insufficient Data

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

Estimated Composite cis-1,2-DCE Plume Extent (First Quarter 2011)

- 6 µg/L (Dashed where approximated)

N

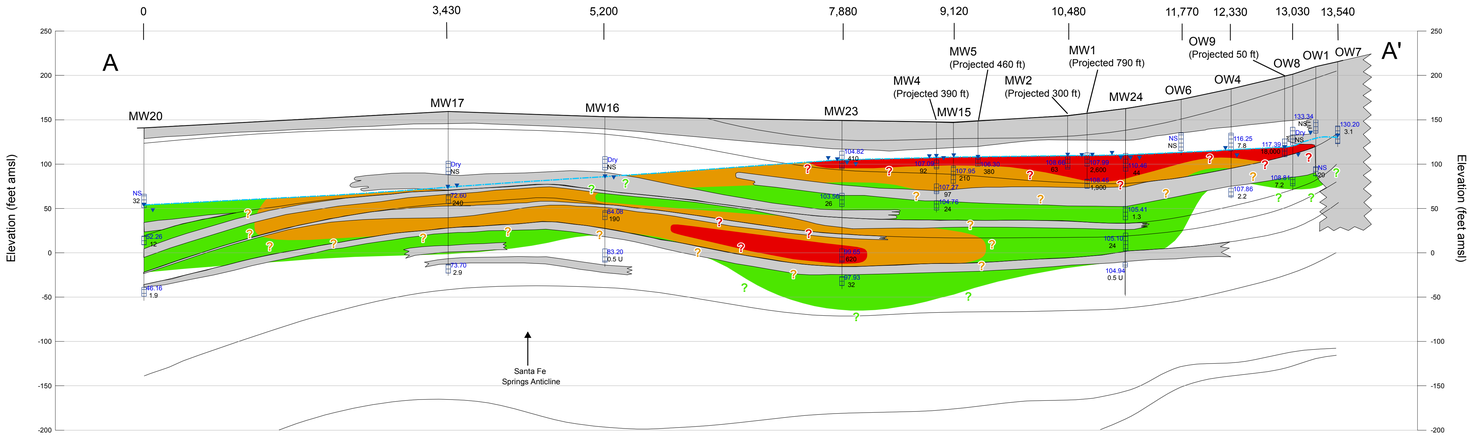
0 750 1,500

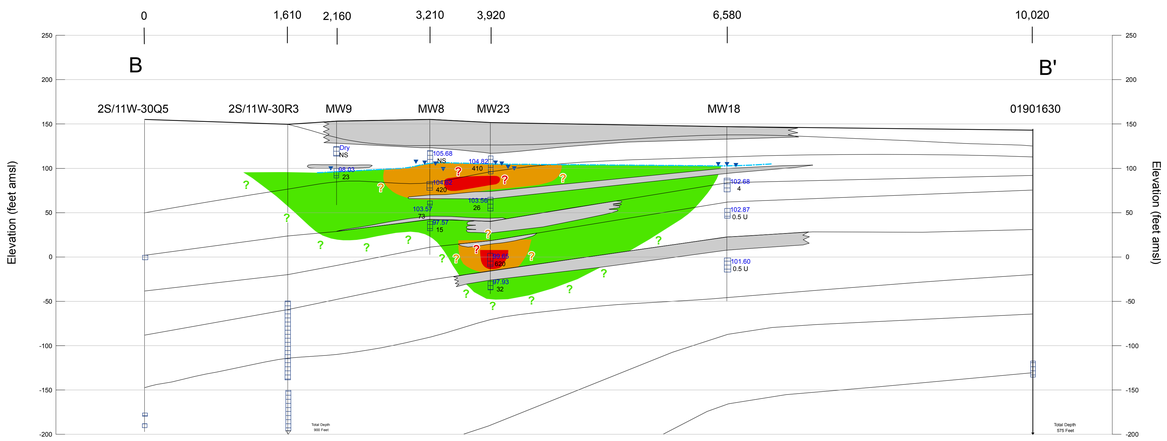
Feet

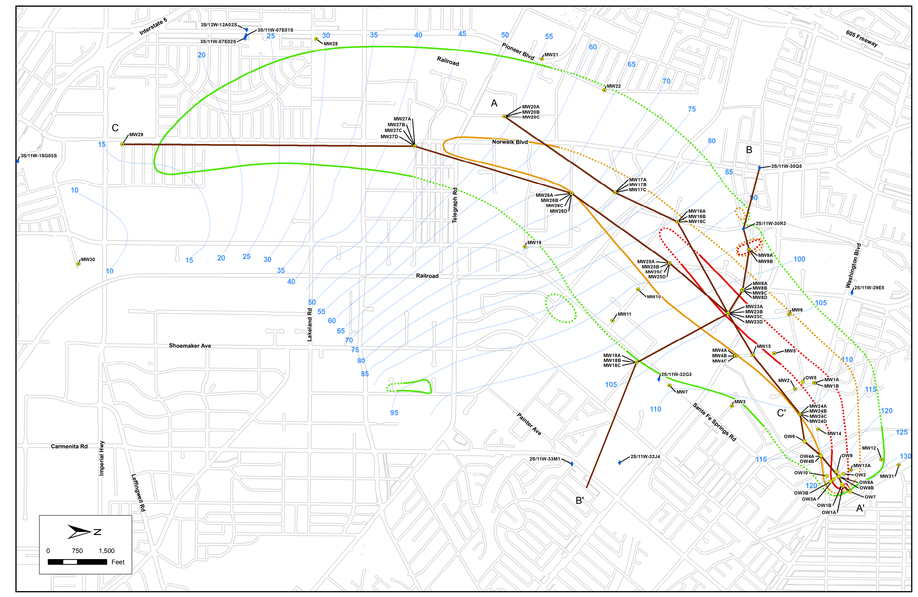
Figure 3-20
cis-1,2-DCE Temporal Trend Distribution
Omega Chemical Superfund Site

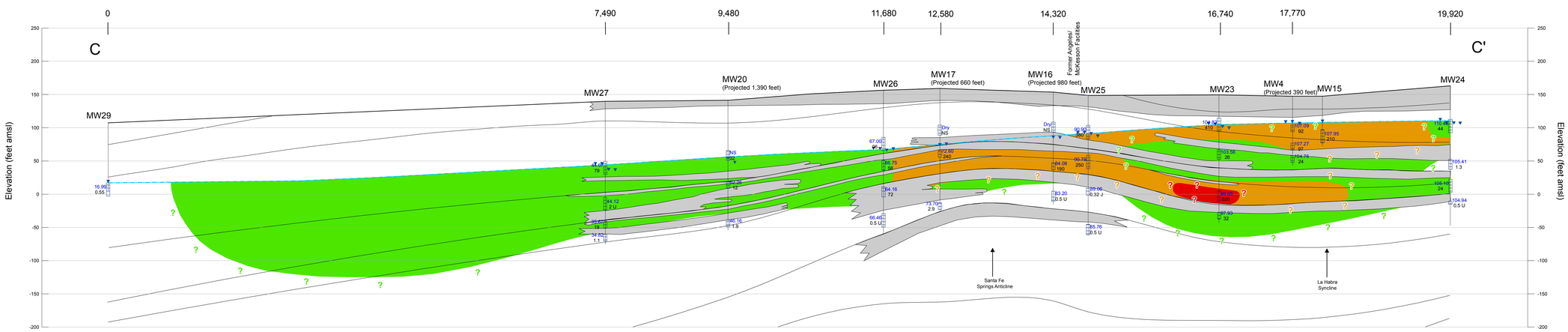
CH2MHILL

Path: \\cheron\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Trend Distributions\Figure_3-20_cis_1,2_DCE_Temporal_Trend_Distribution_final.mxd









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit
- Stratigraphic Boundaries

Concentration
- 120.25 Water Level (feet amsl)
- 25 Concentration (µg/L)

Water Level
- Water Level Elevation (feet amsl)
- Water Table

Estimated Vertical PCE Distribution
- > 500 µg/L
- > 100 µg/L
- > 5 µg/L

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well
- Production Well
- Cross Section Lines
- Former Omega Facility
- Water Table Contours (feet amsl), First Quarter 2010

Estimated Composite PCE Plume Extent
- 500 µg/L (Dashed where approximated)
- 100 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

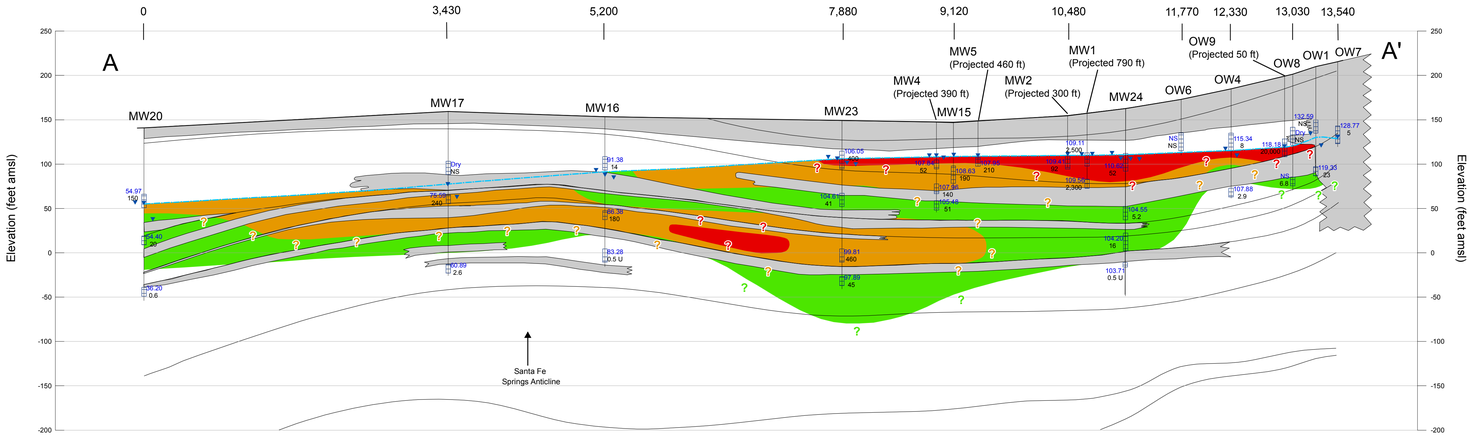
Notes:
1) J - Estimated value.
2) U - Non-Detect as the concentration less than the posted value.
3) UJ - Estimated Non-Detect at the posted value.
4) NS - Not Sampled.
5) SB - Stratigraphic Boundary.
6) amsl - above mean sea level.
7) Smooth (finger-like) lateral termination of fine-grained units represents faces change into coarse-grained material. Jagged termination is used when extent is unknown.

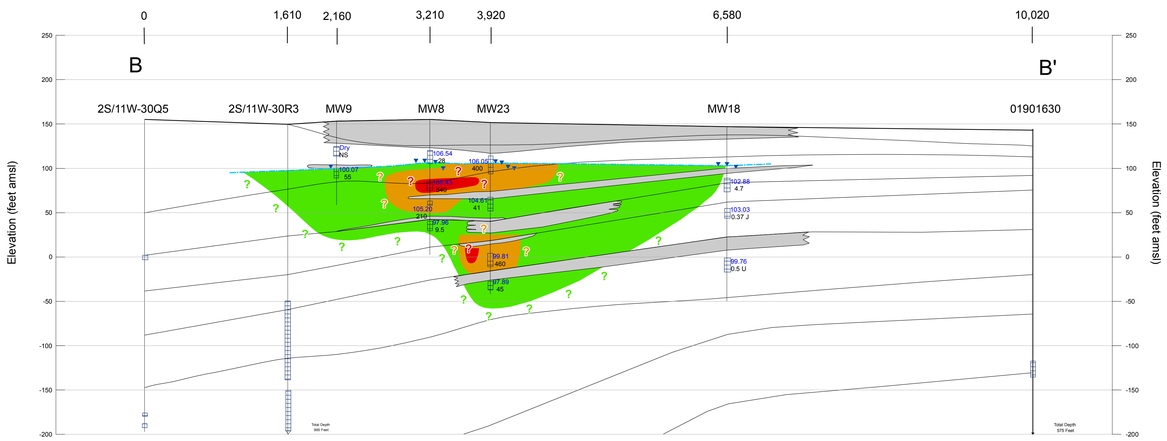
Figure 3-21a
Vertical Distribution of PCE First Quarter 2010
Omega Chemical Superfund Site

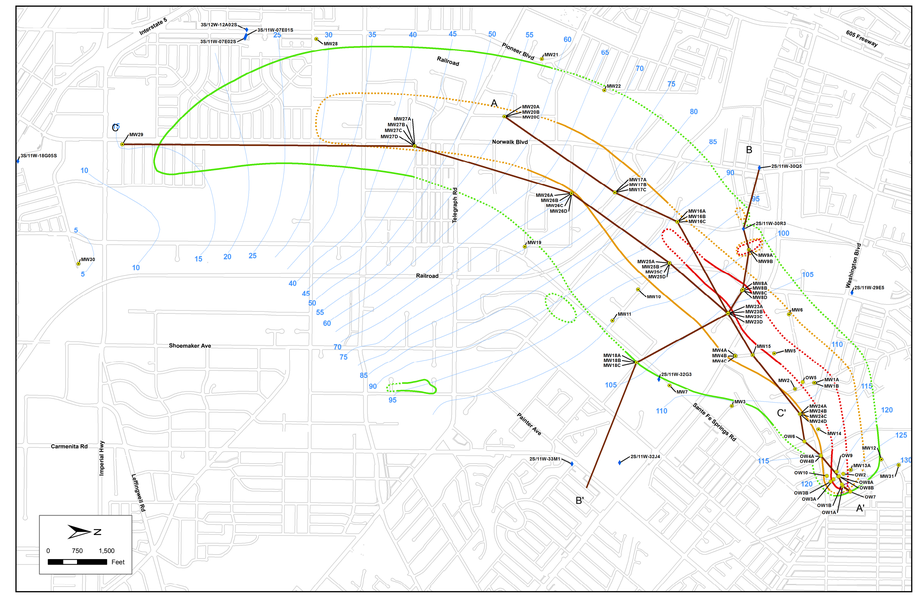
CH2MHILL

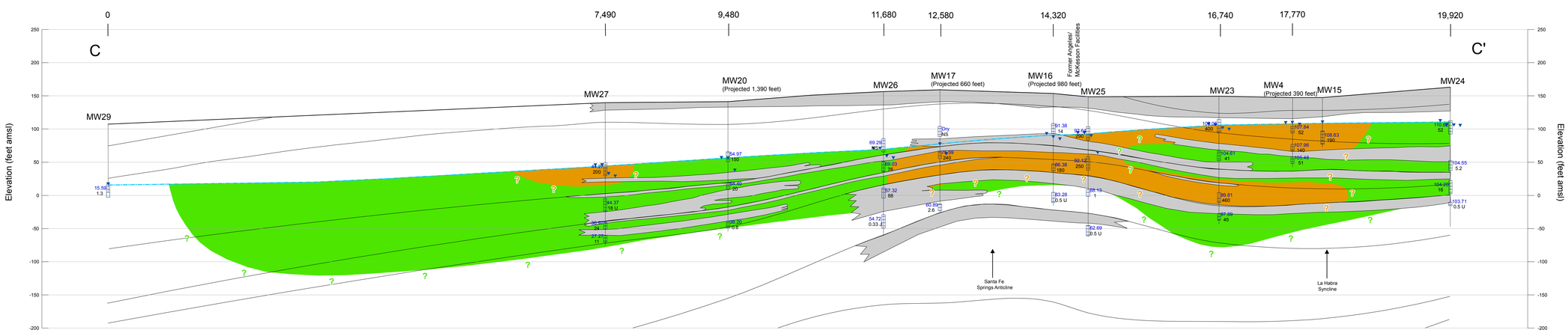
Date: June 2012

Path: \\cherori\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Cross Sections\Figure_3-21a_Q1_2010_PCE_E_Size_Cross_Sections_final.mxd









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit
- Stratigraphic Boundaries

Concentration
- 120.25 Water Level (feet amsl)
- 25 Concentration (µg/L)

Water Level
- Water Level Elevation (feet amsl)
- Water Table

Estimated Vertical PCE Distribution
- > 500 µg/L
- > 100 µg/L
- > 5 µg/L

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well
- Production Well
- Cross Section Lines
- Former Omega Facility
- Water Table Contours (feet amsl), Third Quarter 2010

Estimated Composite PCE Plume Extent
- 500 µg/L (Dashed where approximated)
- 100 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

Notes:
1) J - Estimated value.
2) U - Non-Detect as the concentration less than the posted value.
3) UJ - Estimated Non-Detect at the posted value.
4) NS - Not Sampled.
5) SB - Stratigraphic Boundary.
6) amsl - above mean sea level.
7) Smooth (finger-like) lateral termination of fine-grained units represents faces change into coarse-grained material. Jagged termination is used when extent is unknown.

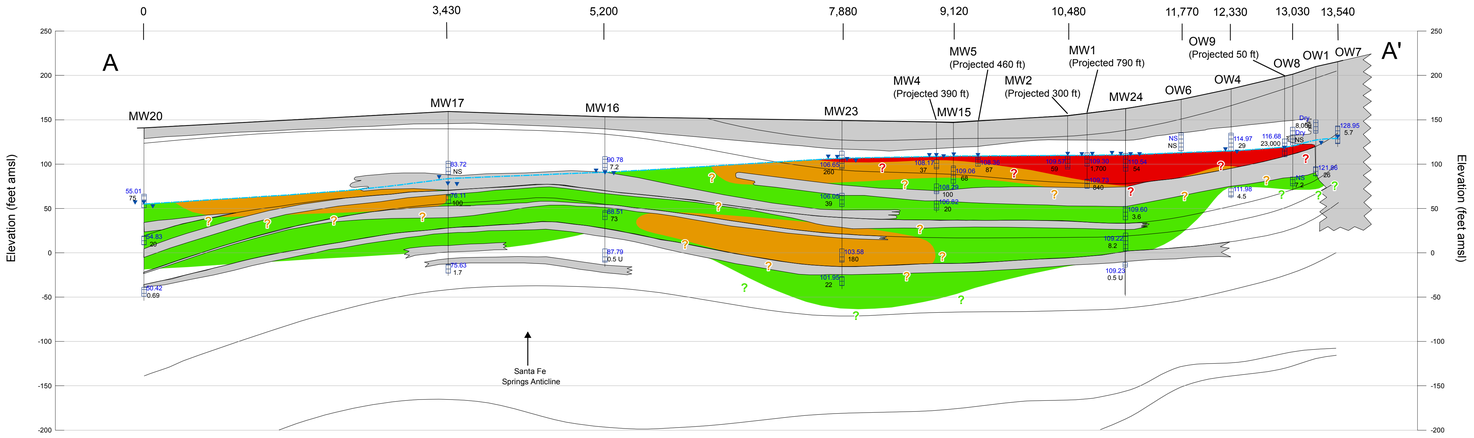
Figure 3-21b
Vertical Distribution of PCE
Third Quarter 2010

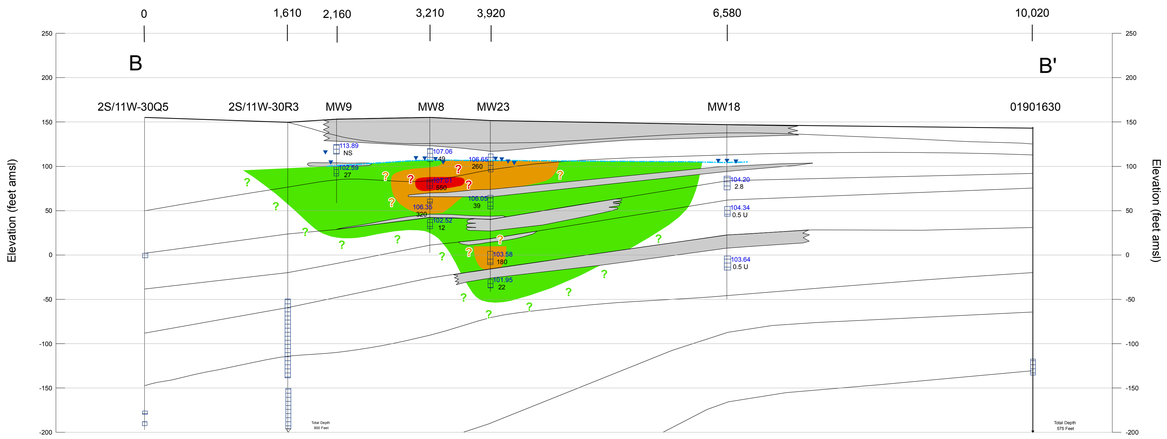
Omega Chemical Superfund Site

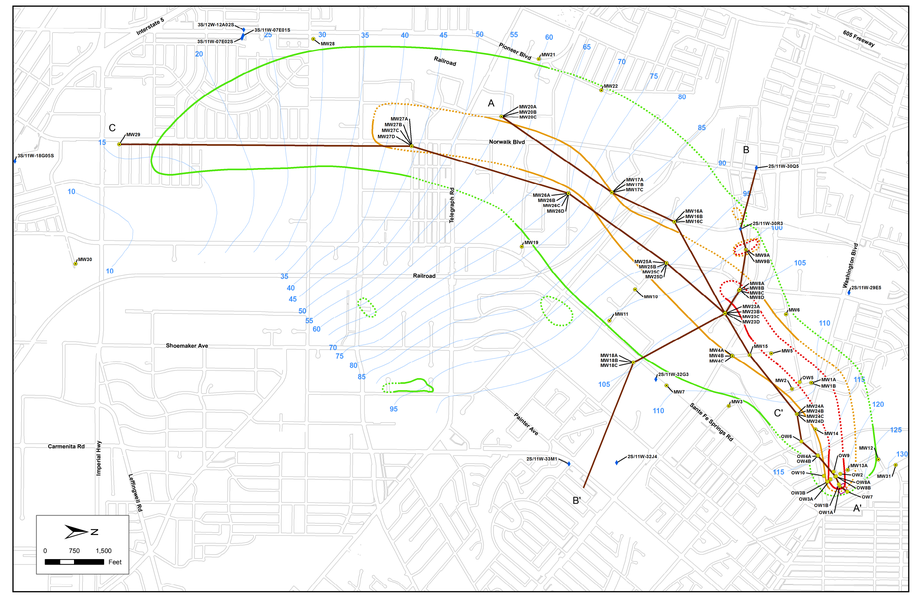
CH2MHILL

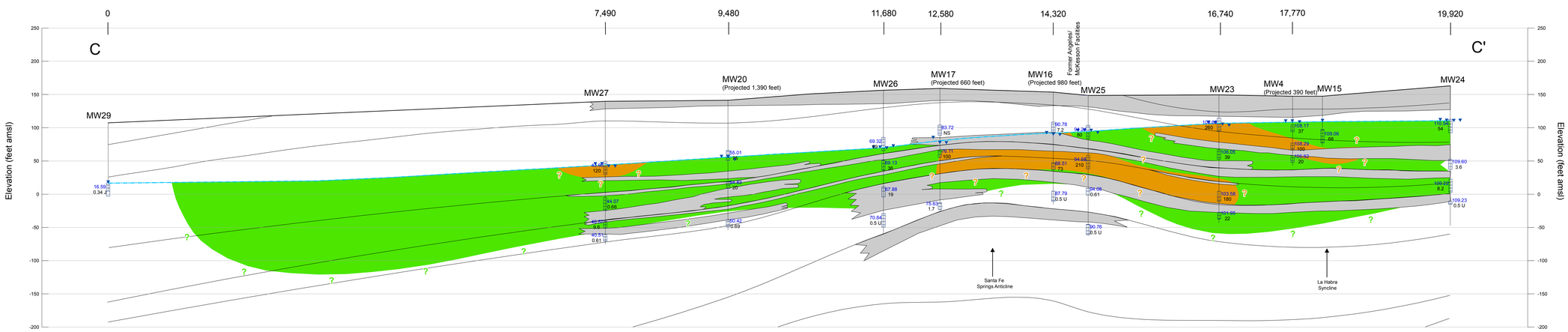
Date: June 2012

Path: \\cherori\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Cross Sections\Figure_3-21b_Q3_2010_PCE_E_Size_Cross_Sections_final.mxd









Legend

Cross Sections

Lithology
- Fine-Grained Unit
- Coarse-Grained Unit
- Stratigraphic Boundaries

Concentration
- 120.25 Water Level (feet amsl)
- 25 Concentration (µg/L)

Water Level
- Water Level Elevation (feet amsl)
- Water Table

Estimated Vertical PCE Distribution
- > 500 µg/L
- > 100 µg/L
- > 5 µg/L

Cross Section Location Map

- EPA Monitoring Well
- Omega Potentially Responsible Parties Organized Group (OPOG) Monitoring Well
- Production Well
- Cross Section Lines
- Former Omega Facility
- Water Table Contours (feet amsl), First Quarter 2011

Estimated Composite PCE Plume Extent
- 500 µg/L (Dashed where approximated)
- 100 µg/L (Dashed where approximated)
- 5 µg/L (Dashed where approximated)

Notes:
1) J - Estimated value.
2) U - Non-Detect as the concentration less than the posted value.
3) UJ - Estimated Non-Detect at the posted value.
4) NS - Not Sampled.
5) SB - Stratigraphic Boundary.
6) amsl - above mean sea level.
7) Smooth (finger-like) lateral termination of fine-grained units represents faces change into coarse-grained material. Jagged termination is used when extent is unknown.

Figure 3-21c
Vertical Distribution of PCE First Quarter 2011
Omega Chemical Superfund Site

CH2MHILL

Date: June 2012

Path: \\cherori\proj\EPA\386743OmegaOU2\GIS\2010-2011 Annual Report\Omega_2010-2011_Report\ArcMap Documents\Cross Sections\Figure_3-21c_Q1_2011_PCE_E_Size_Cross_Sections_final.mxd