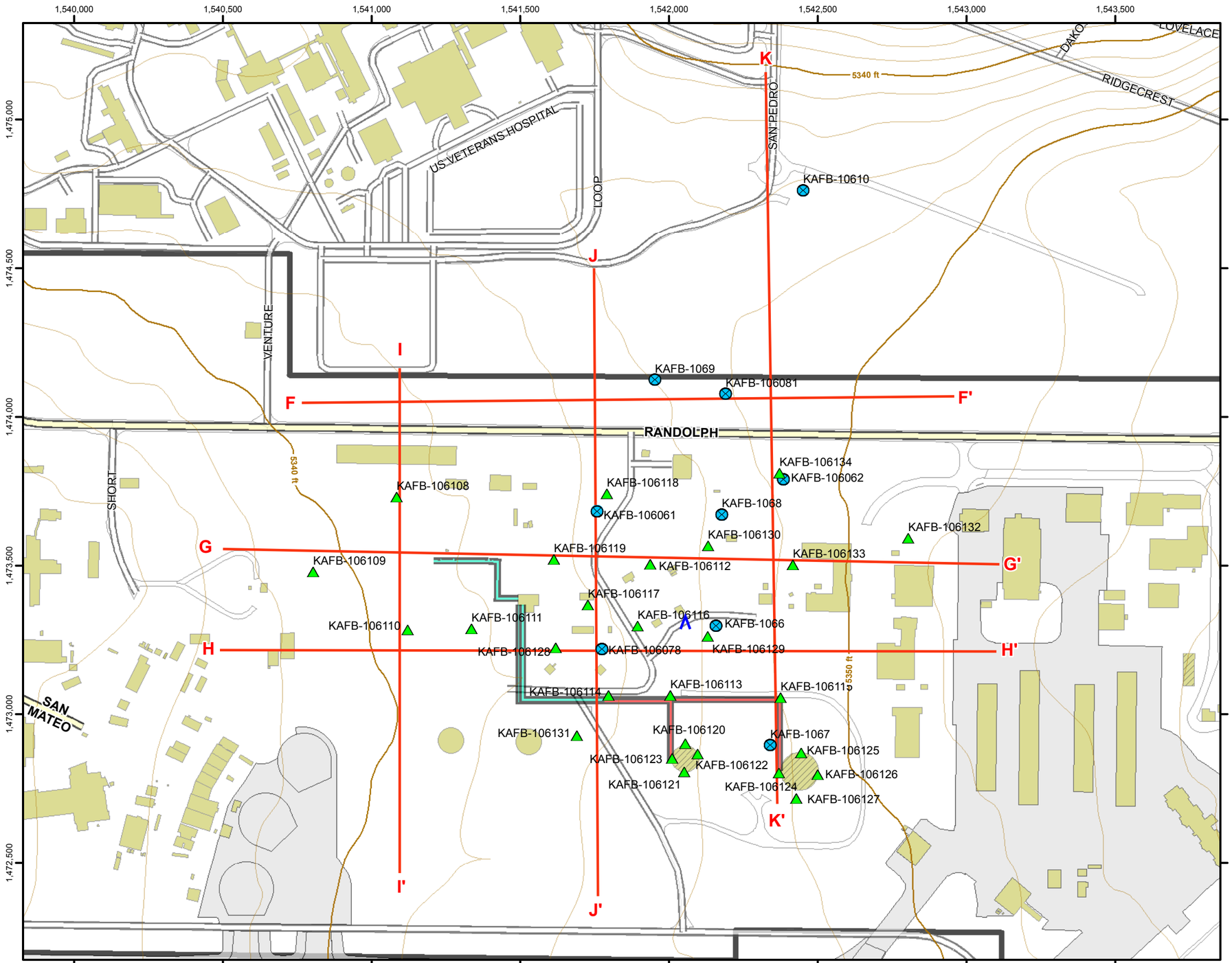
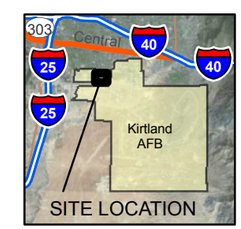


H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_049_soil_locs.mxd 12/13/11

Legend

- Monitor Well
- SVM Cluster
- Cross-Section Line
- Topographic Contour 2' Interval
- Topographic Contour 10' Interval
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Interstate
- Major Road
- Road
- Structure
- Runway
- Installation Boundary



Revision Date: 12/13/11

N

0 175 350 700

Feet

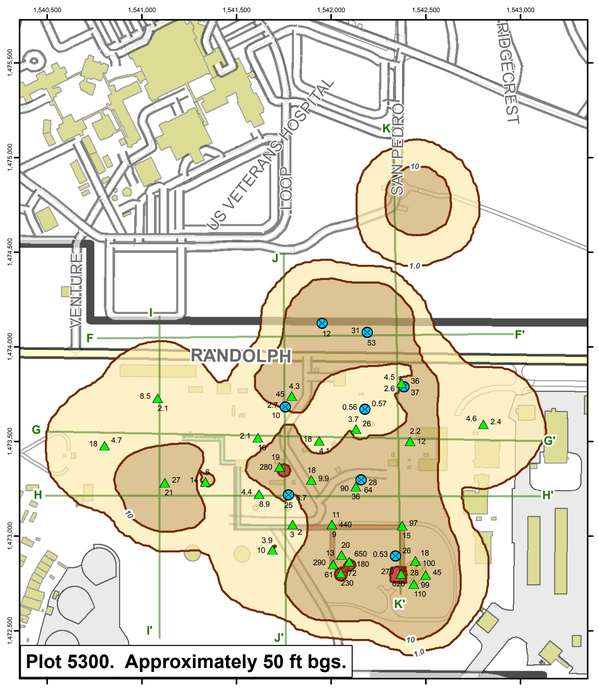
1 inch = 350 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-1

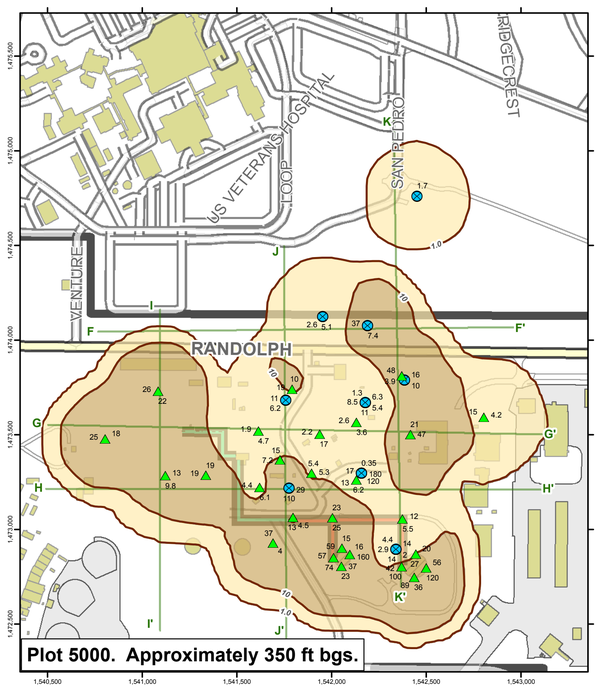
SOIL PLUME
FOOTPRINT ANALYSIS
DATA LOCATIONS



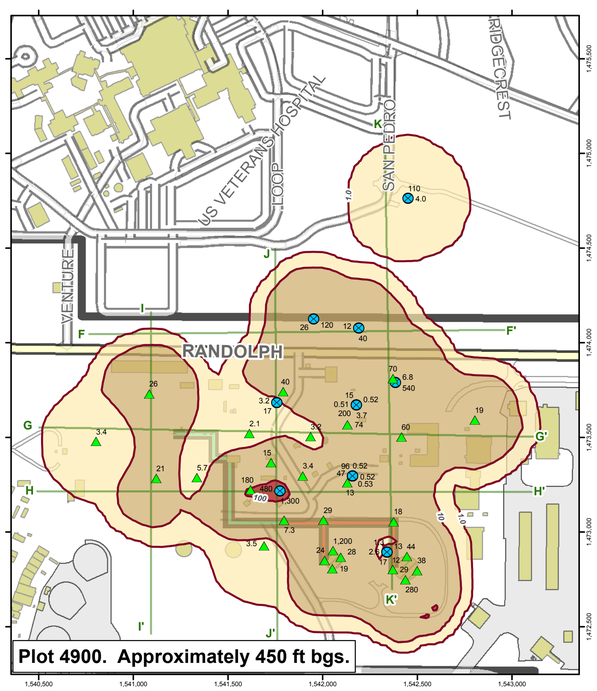
Plot 5300. Approximately 50 ft bgs.

Plot 5200. Approximately 150 ft bgs.

Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil TPH data are from Jan. 2006 through Aug. 2011.

The soil TPH plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

Soil sample locations are presented with the TPH concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

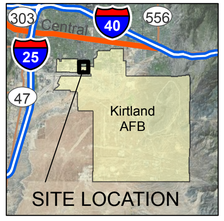
See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- Monitor Well with TPH Soil Concentration (mg/kg)
- SVM Cluster with TPH Soil Concentration (mg/kg)
- Cross-Section Line
- TPH Concentration Contour (mg/kg)

TPH Concentration (mg/kg)

- 1.0 - 9.0
- 10 - 99
- ≥ 100
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

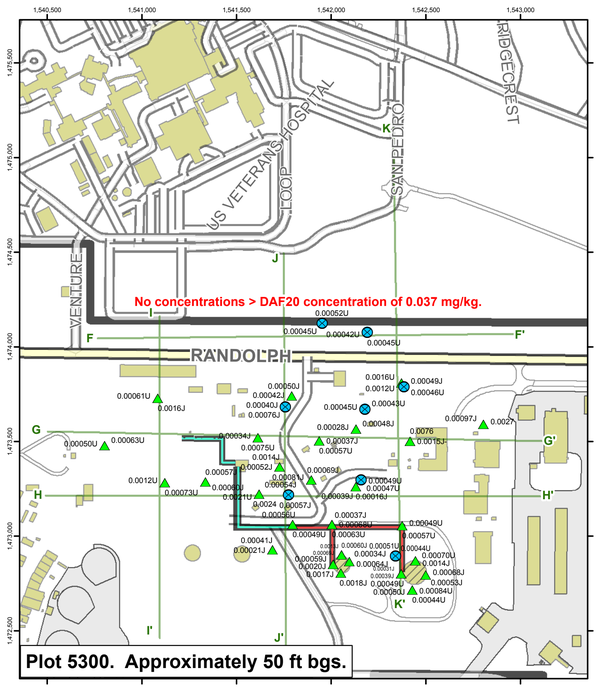
Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

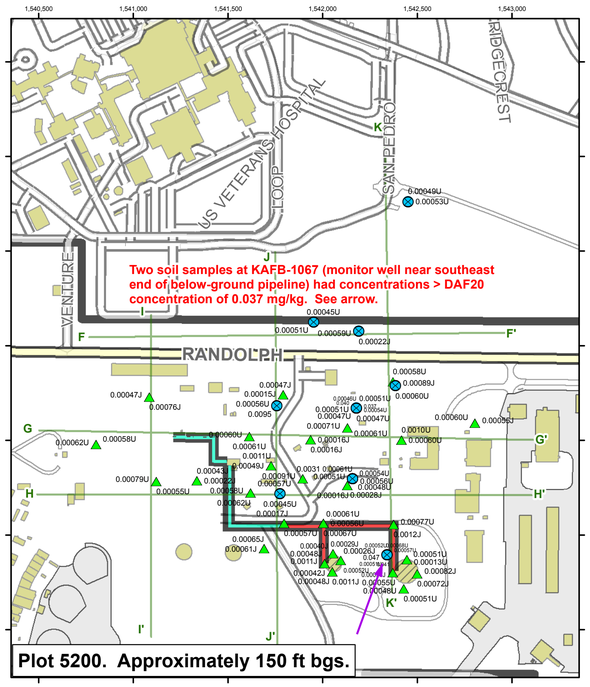
APPENDIX J2-2

SOIL TPH
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

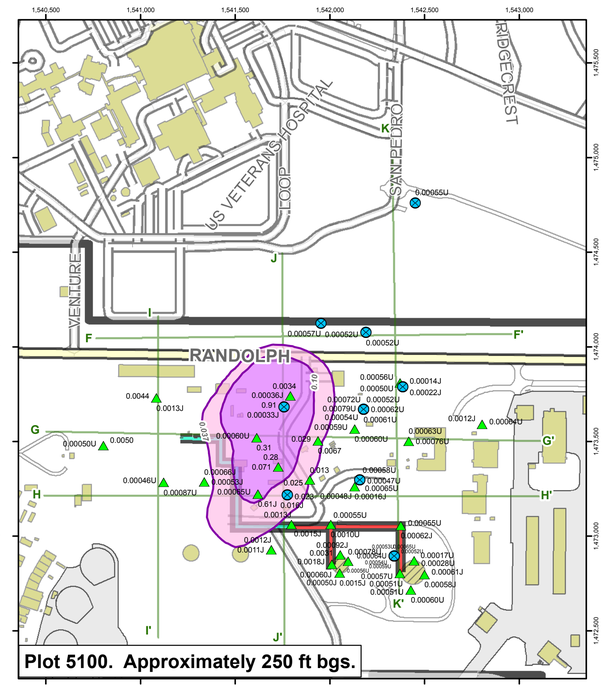
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_008_TPH_SO_plan_Dsize.mxd 12/15/11



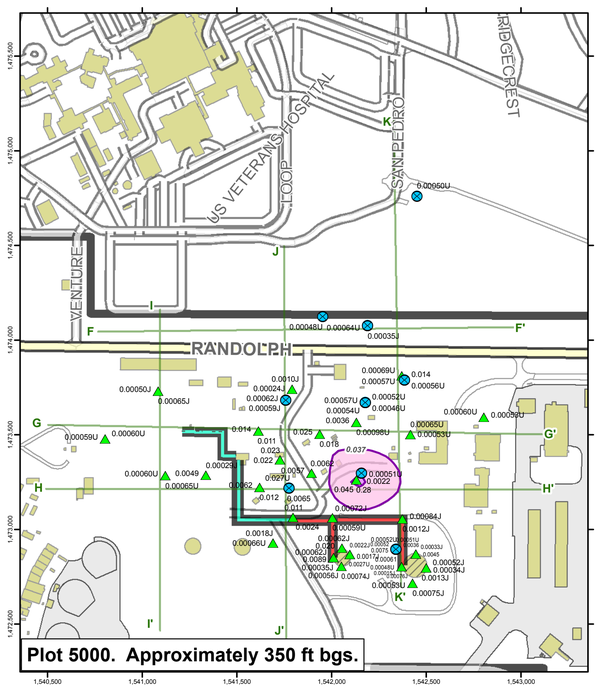
Plot 5300. Approximately 50 ft bgs.



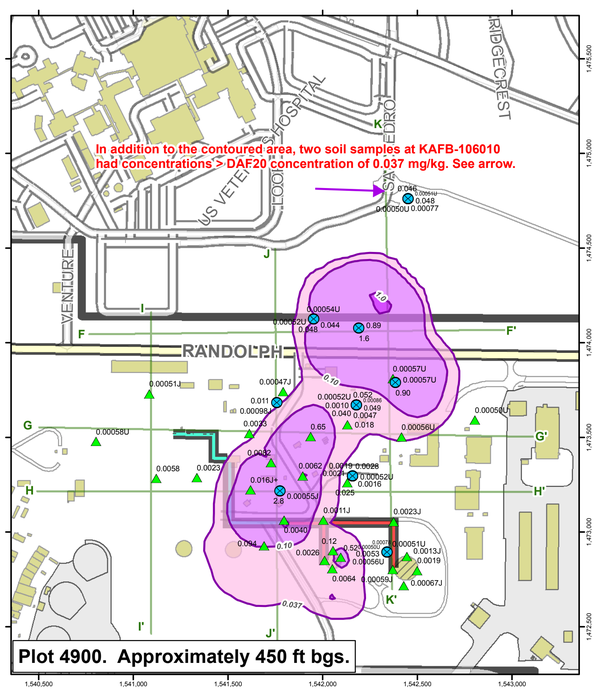
Plot 5200. Approximately 150 ft bgs.



Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil benzene data are from Jan. 2006 through Aug. 2011.

The soil benzene plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

Soil sample locations are presented with the benzene concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

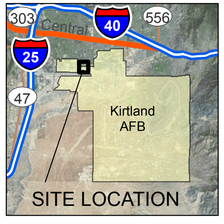
See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- Monitor Well with Benzene Soil Concentration (mg/kg)
- SVM Cluster with Benzene Soil Concentration (mg/kg)
- Cross-Section Line
- Benzene Concentration Contour (mg/kg)

Benzene Concentration (mg/kg)

- 0.037 - 0.099
- 0.10 - .99
- ≥ 1.0
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

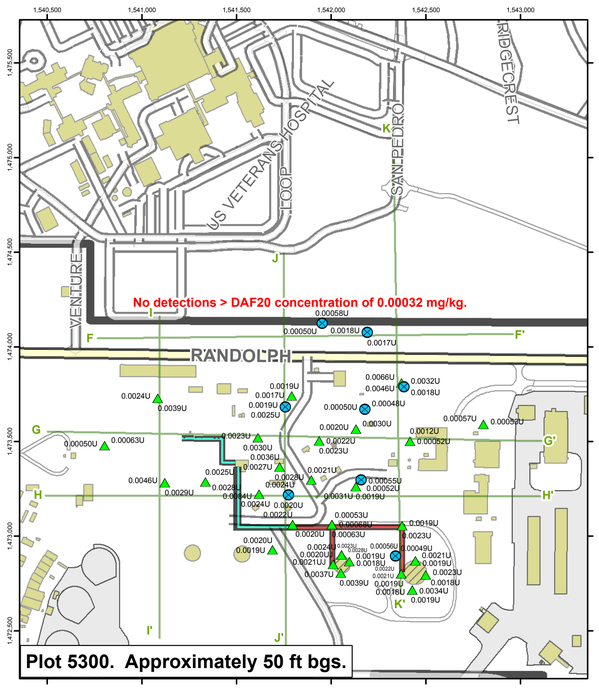
Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

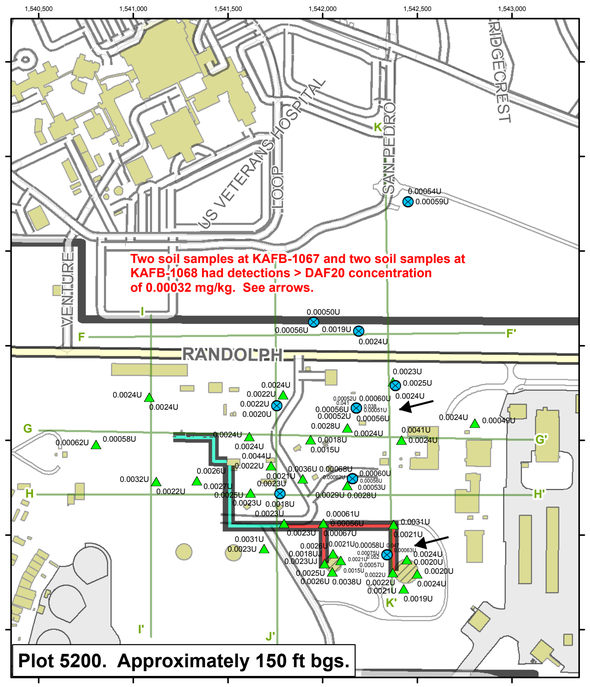
APPENDIX J2-3

SOIL BENZENE
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

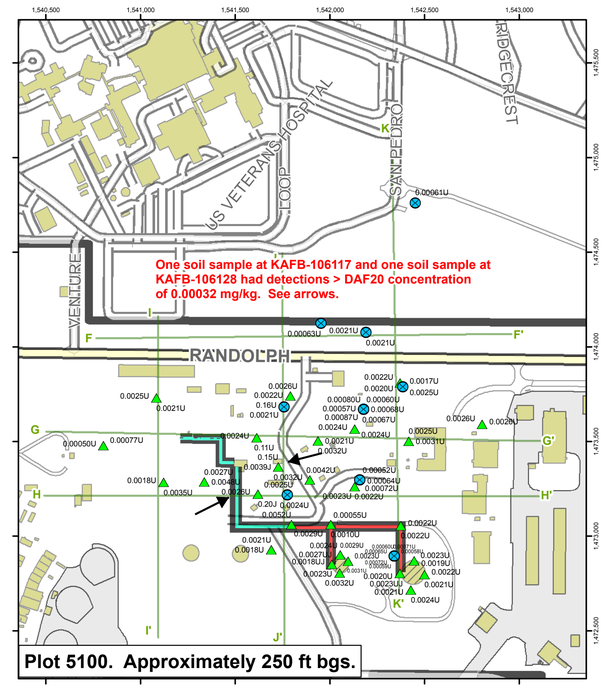
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_002_BNZ_SO_plan_Dsize.mxd 12/15/11



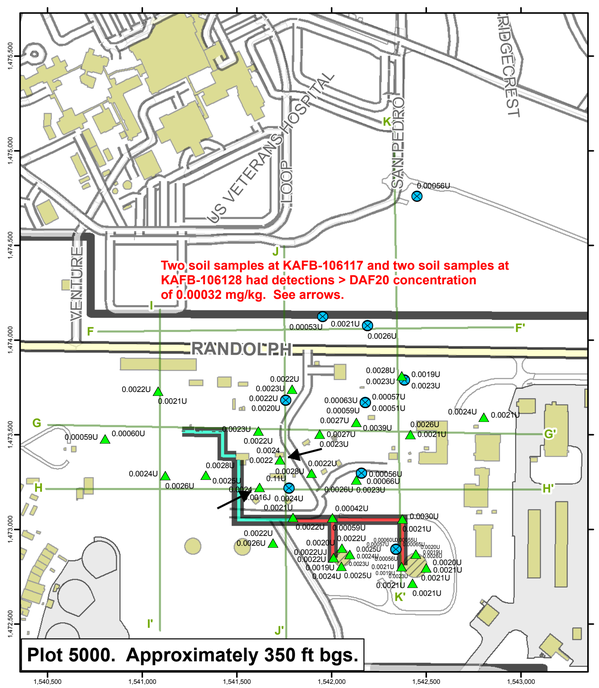
Plot 5300. Approximately 50 ft bgs.



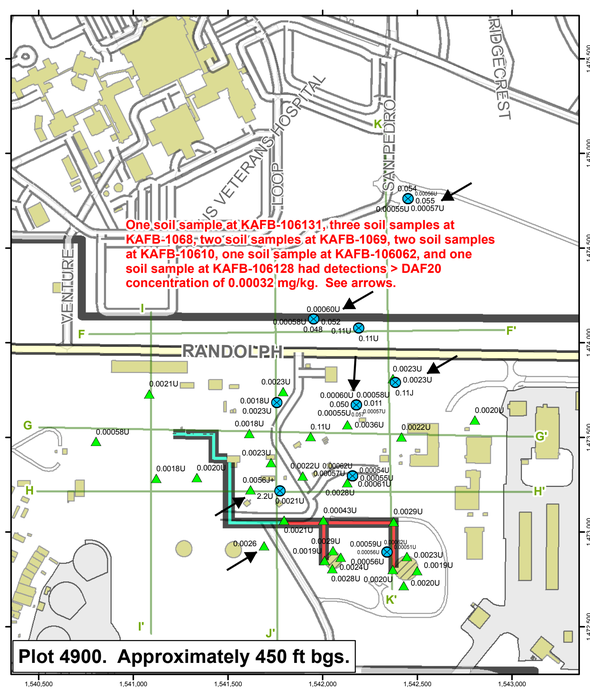
Plot 5200. Approximately 150 ft bgs.



Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil EDB data are from Jan. 2006 through Aug. 2011.

Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

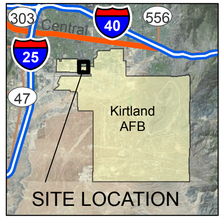
Soil sample locations are presented with the EDB concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- 0.00055 Monitor Well with EDB Soil Concentration (mg/kg)
- 0.0012 SVM Cluster with EDB Soil Concentration (mg/kg)
- Cross-Section Line
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

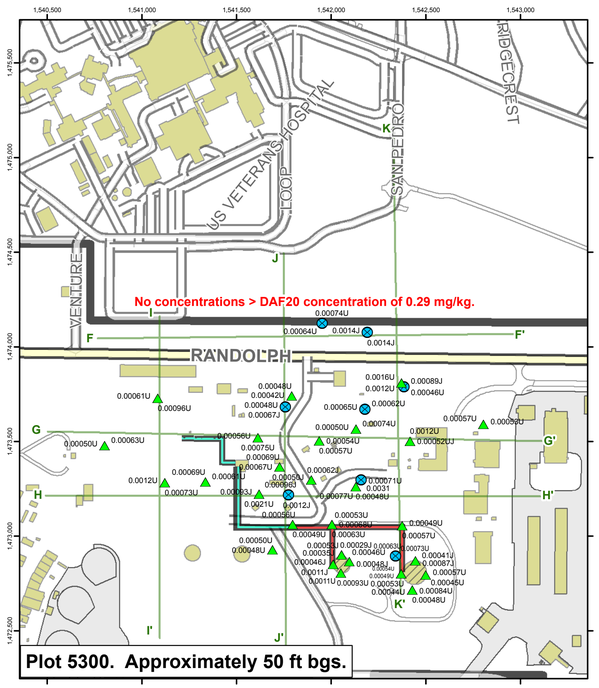
Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

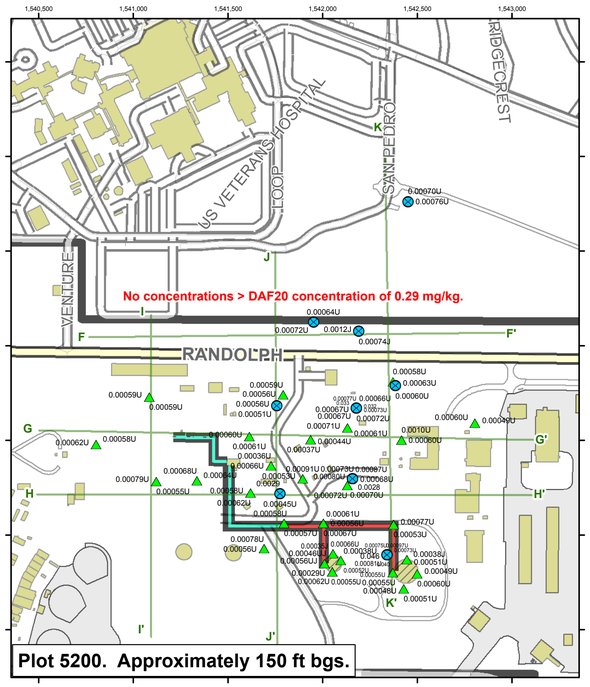
APPENDIX J2-4

SOIL 1,2-DIBROMOETHANE (EDB)
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

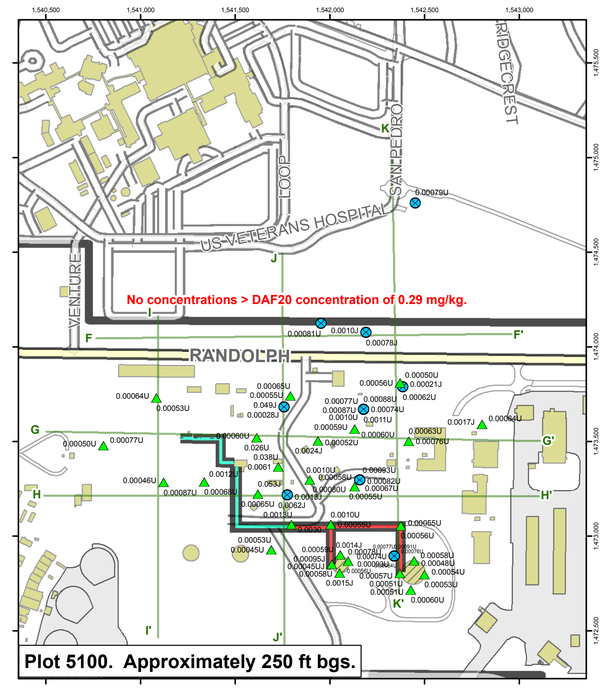
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_003_EDB_SO_plan_Dsize.mxd 12/15/11



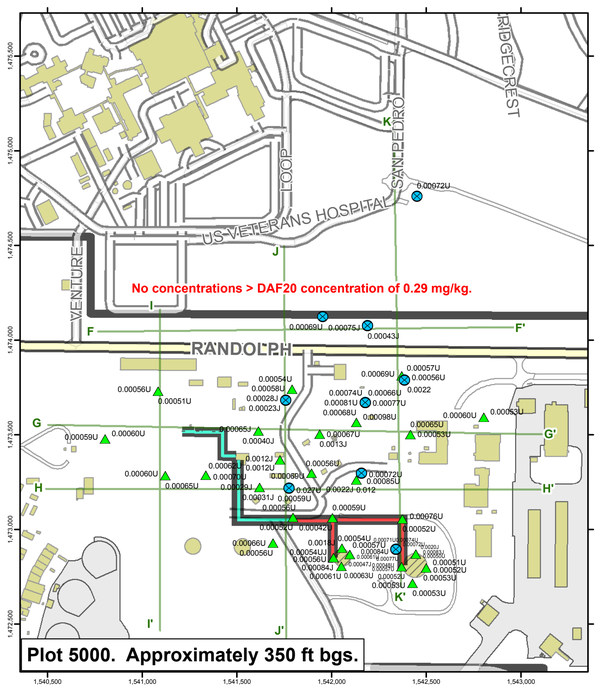
Plot 5300. Approximately 50 ft bgs.



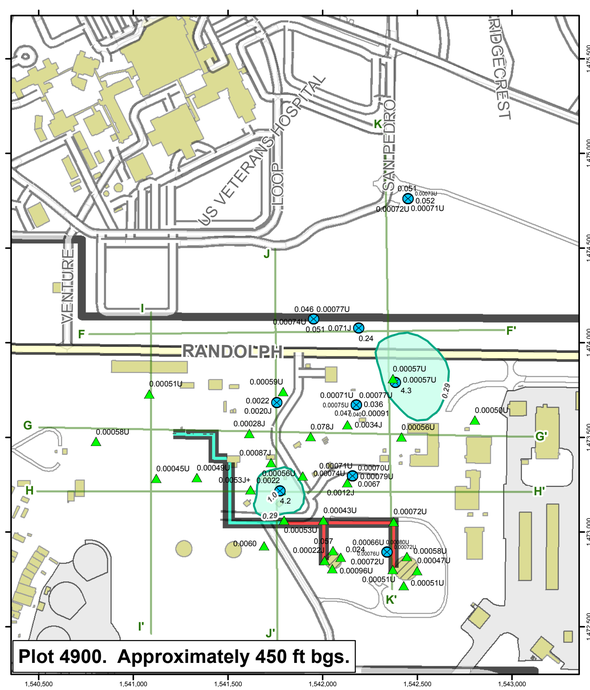
Plot 5200. Approximately 150 ft bgs.



Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil ethylbenzene data are from Jan. 2006 through Aug. 2011.

The soil ethylbenzene plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

Soil sample locations are presented with the ethylbenzene concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

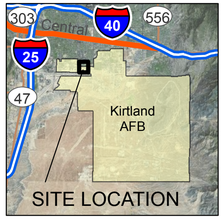
See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- 0.00055 Monitor Well with Ethylenzene Soil Concentration (mg/kg)
- 0.0012 SVM Cluster with Ethylbenzene Soil Concentration (mg/kg)
- Cross-Section Line
- Ethylbenzene Concentration Contour (mg/kg)

Ethylbenzene Concentration Contour (mg/kg)

- 0.29 - .99
- ≥ 1.0
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

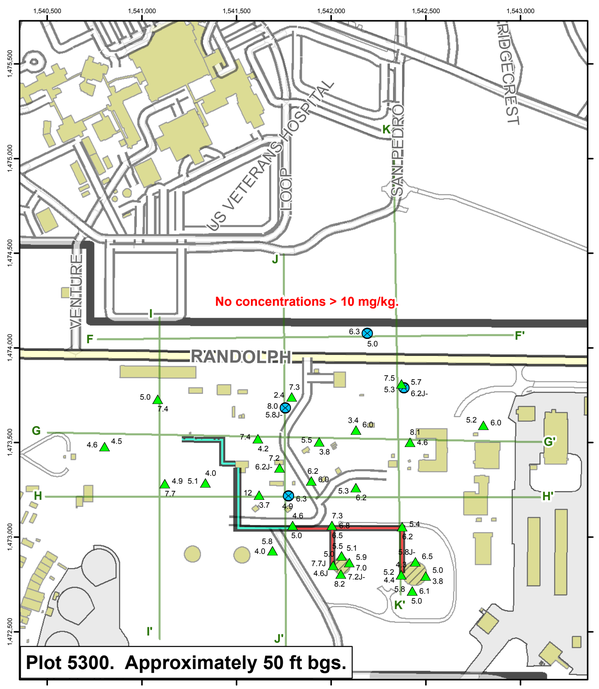
Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

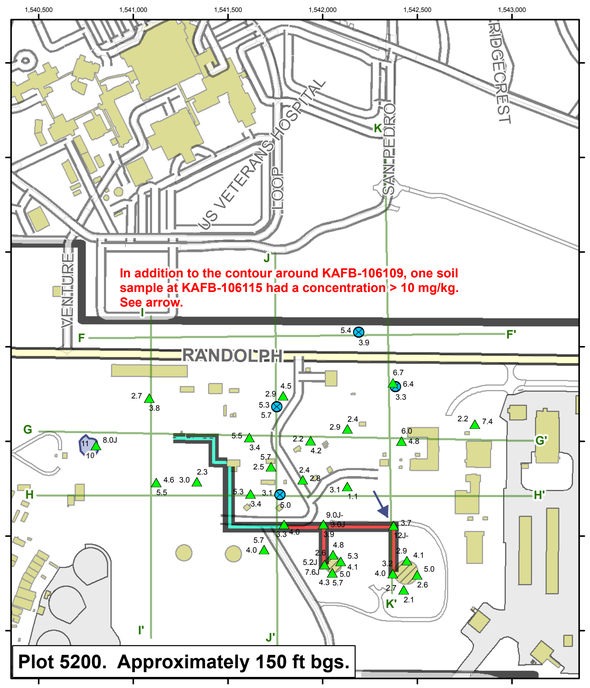
2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

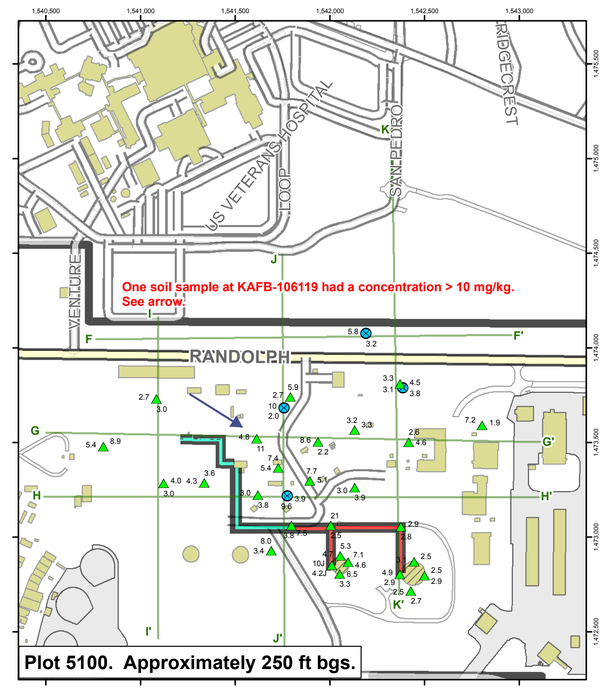
APPENDIX J2-5

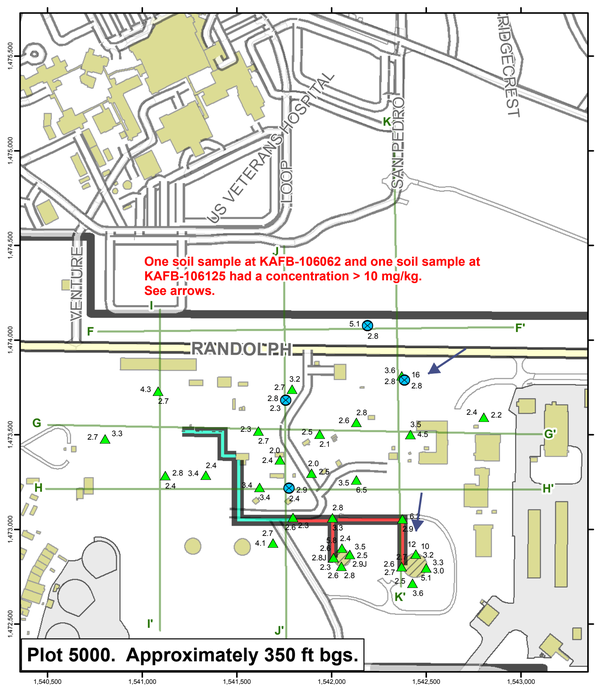
SOIL ETHYLBENZENE
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

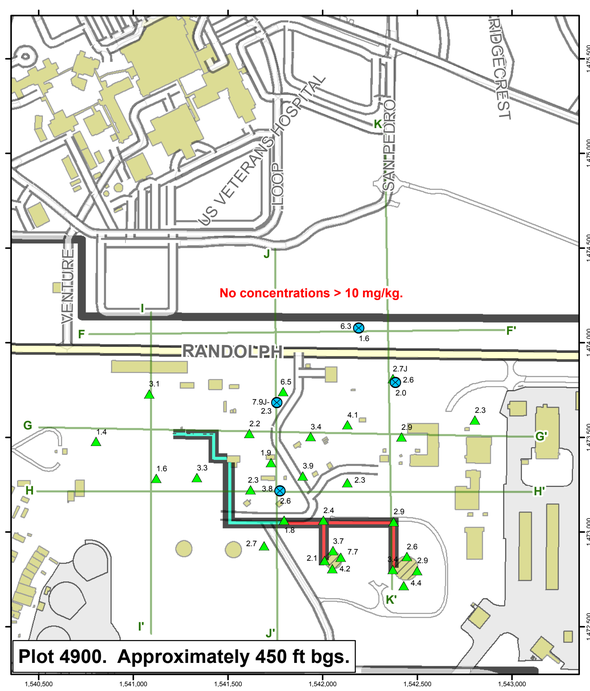
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_004_Ethylbenzene_SO_plan_Dsize.mxd 12/15/11











Note:
Soil lead data are from Jan. 2006 through Aug. 2011.

The soil lead plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

Soil sample locations are presented with the lead concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

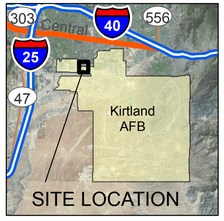
See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- Monitor Well with Lead Soil Concentration (mg/kg)
- SVM Cluster with Lead Soil Concentration (mg/kg)
- Cross-Section Line
- Lead Concentration Contour (mg/kg)

Lead Concentration (mg/kg)

- ≥ 10
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

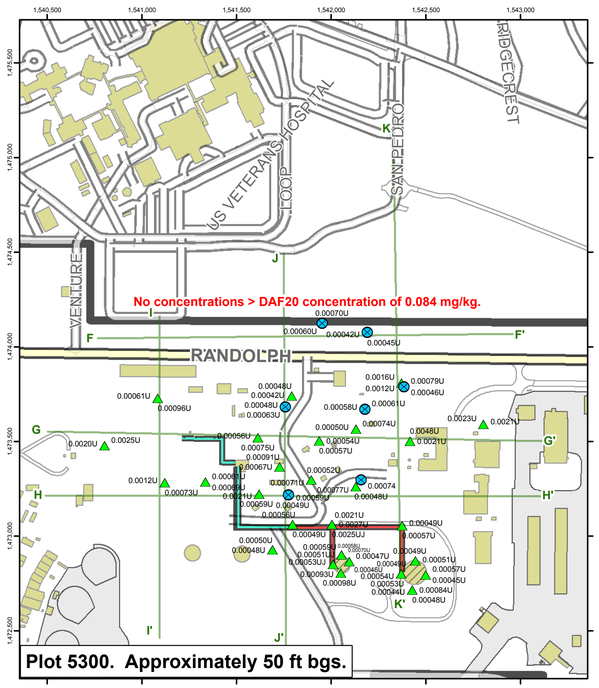
Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

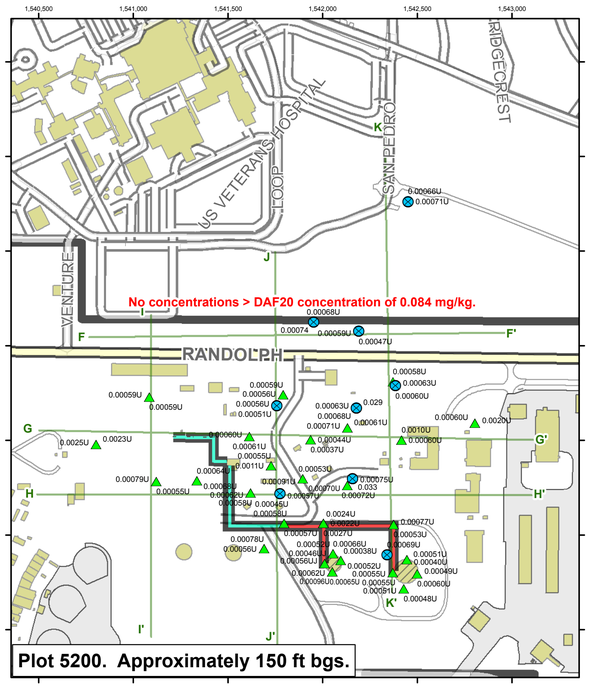
APPENDIX J2-6

SOIL LEAD
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

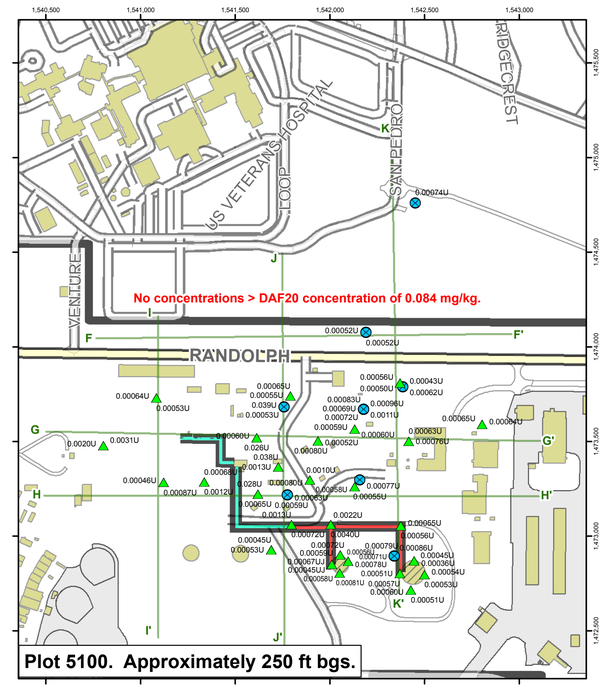
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_005_Lead_SO_plan_Dsize.mxd 12/15/11



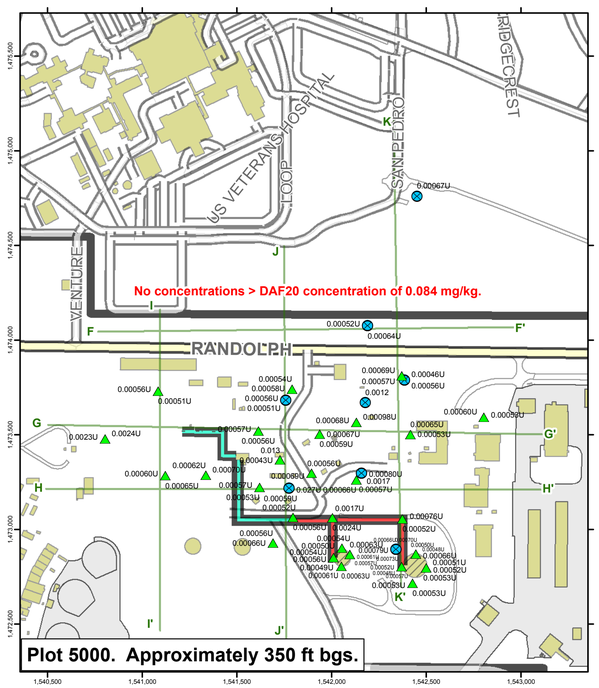
Plot 5300. Approximately 50 ft bgs.



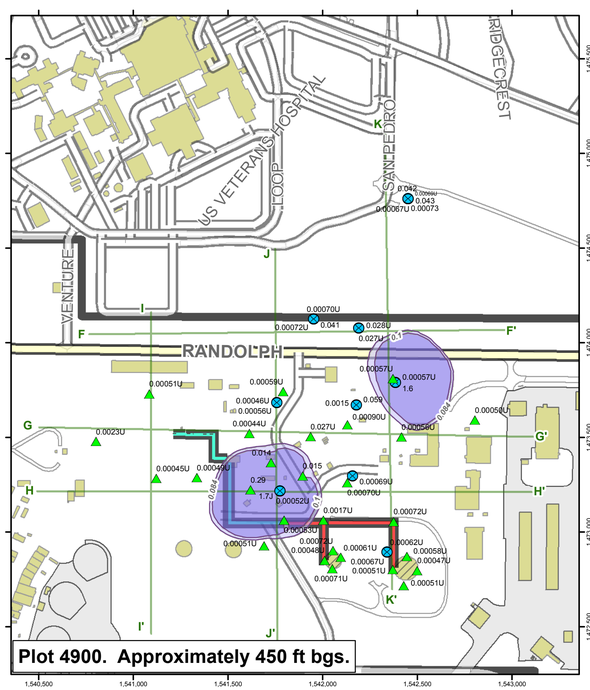
Plot 5200. Approximately 150 ft bgs.



Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil naphthalene data are from Jan. 2006 through Aug. 2011.

The soil naphthalene plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

Soil sample locations are presented with the naphthalene concentration in mg/kg (method SW8260b) for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

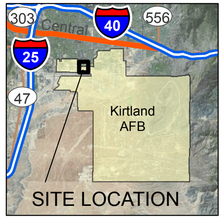
See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- 0.00055 Monitor Well with Naphthalene Soil Concentration (mg/kg)
- 0.0012 SVE Cluster with Naphthalene Soil Concentration (mg/kg)
- Cross-Section Line
- Naphthalene Concentration Contour (mg/kg)

Naphthalene Concentration (mg/kg)

- 0.084 - 0.099
- ≥ 0.1
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

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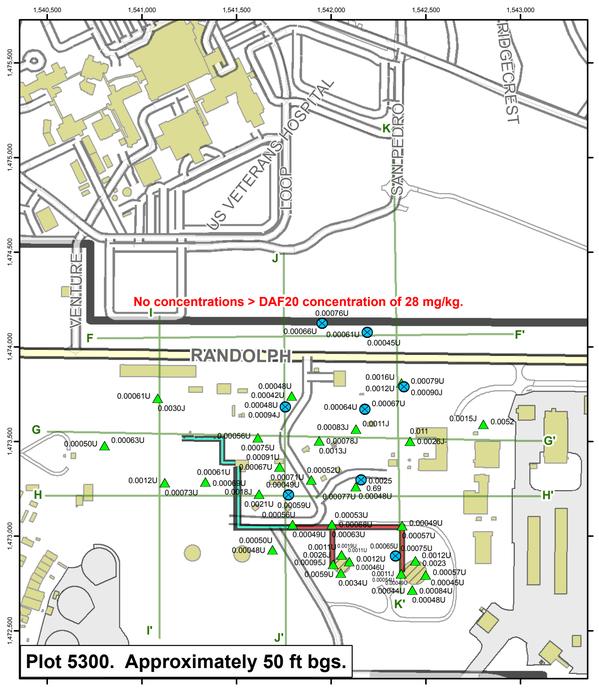
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

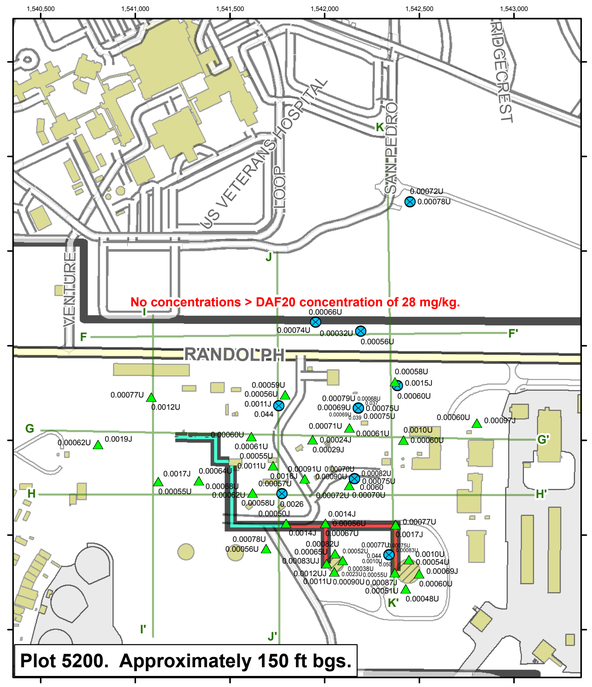
APPENDIX J2-7

SOIL NAPHTHALENE
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

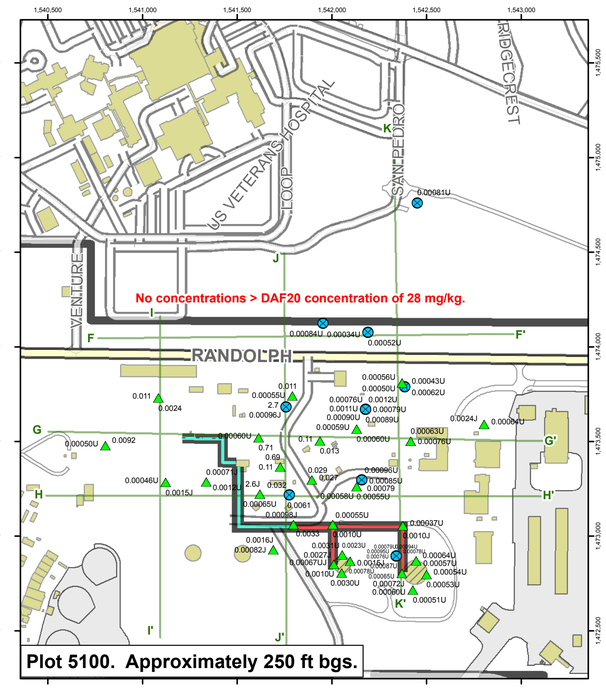
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_006_Naphthalene_SO_plan_Dsize.mxd 12/15/11



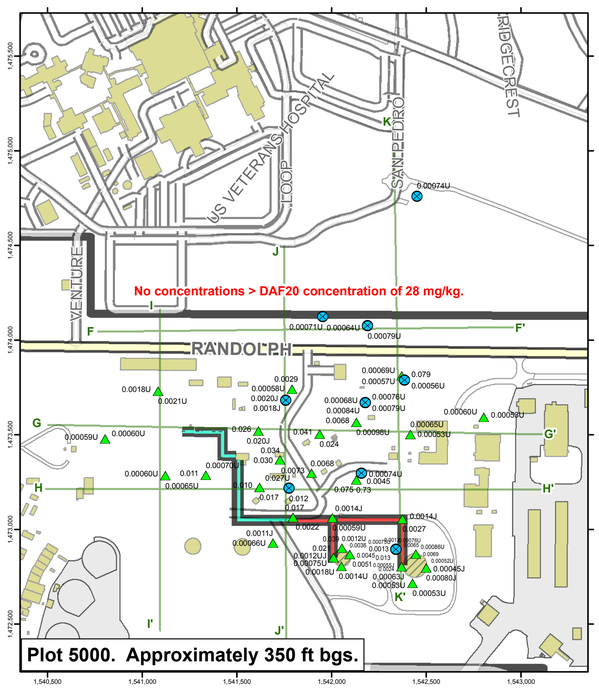
Plot 5300. Approximately 50 ft bgs.



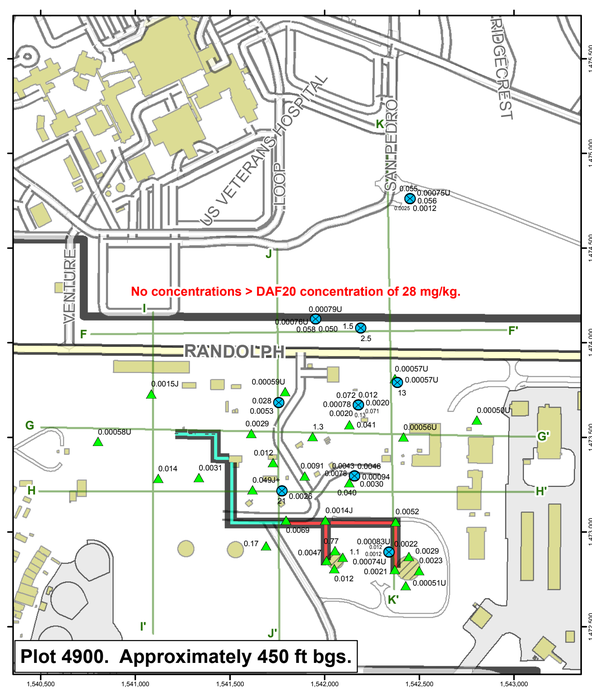
Plot 5200. Approximately 150 ft bgs.



Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil toluene data are from Jan. 2006 through Aug. 2011.

The soil toluene plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

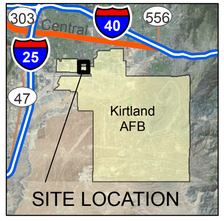
Soil sample locations are presented with the toluene concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- 0.00055 Monitor Well with Toluene Soil Concentration (mg/kg)
- 0.0012 SVM Cluster with Toluene Soil Concentration (mg/kg)
- Cross-Section Line
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

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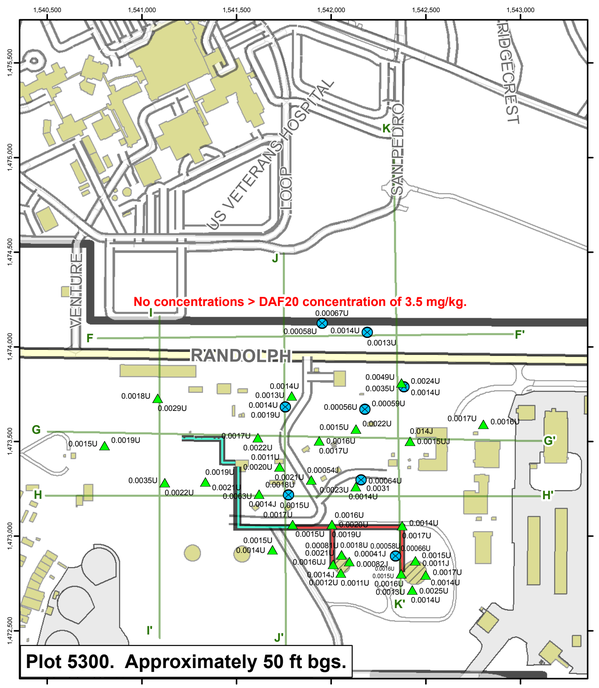
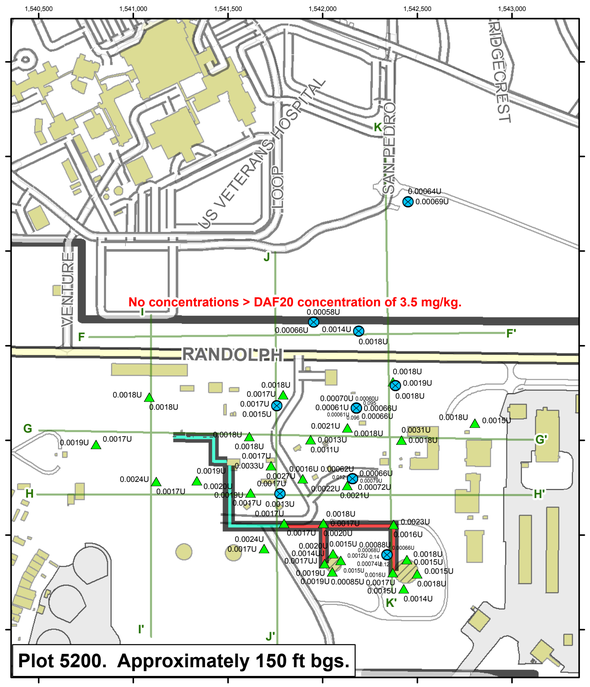
APPENDIX J2-8

SOIL TOLUENE
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

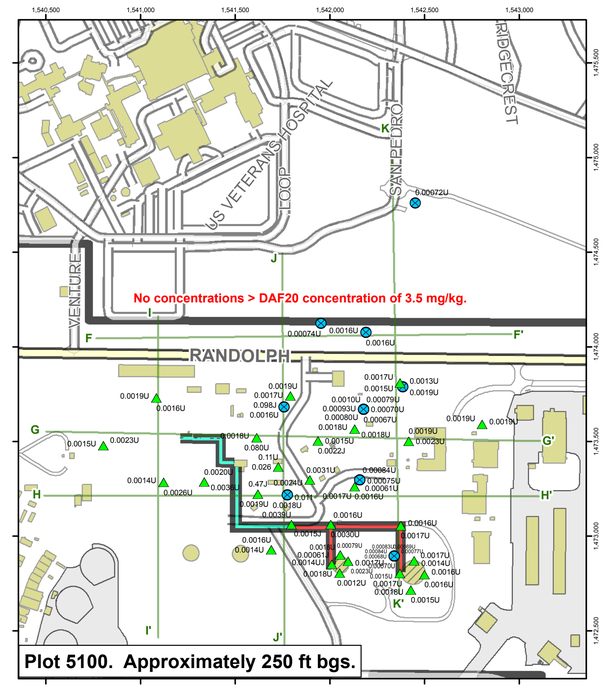
H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_007_Toluene_SO_plan_Dsize.mxd 12/15/11



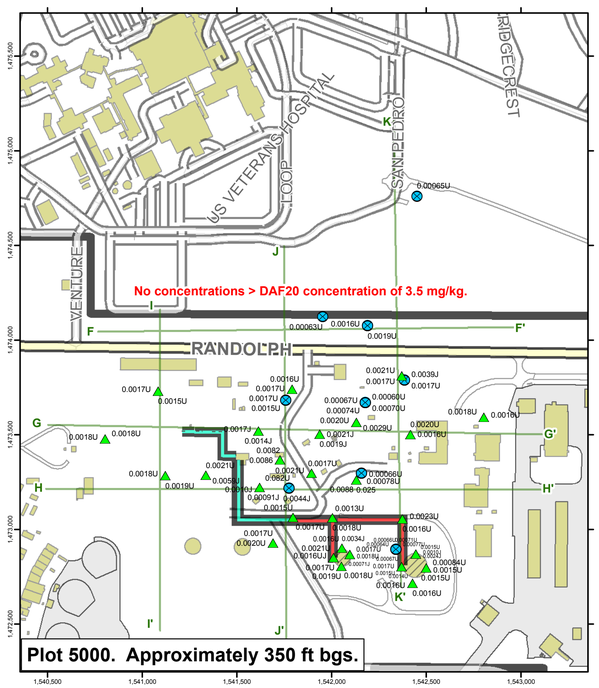
Plot 5300. Approximately 50 ft bgs.



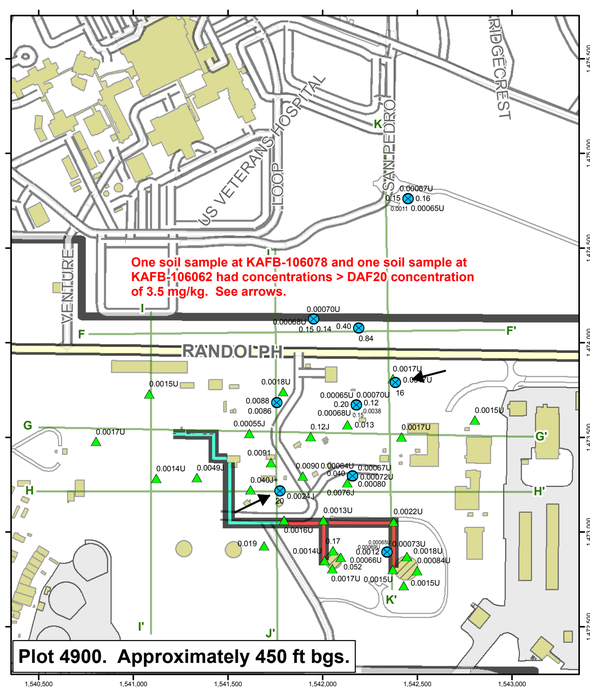
Plot 5200. Approximately 150 ft bgs.



Plot 5100. Approximately 250 ft bgs.



Plot 5000. Approximately 350 ft bgs.



Plot 4900. Approximately 450 ft bgs.

Note:
Soil xylenes data are from Jan. 2006 through Aug. 2011.

The soil xylenes plume was gridded in three dimensions using logarithmic inverse distance weighting in RockWorks. Concentration plan-view maps were "cut" at respective elevations. Ground elevations range from 5314 to 5364 ft above mean sea level across the ST-106/SS-111 investigation area.

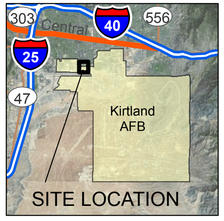
Soil sample locations are presented with the xylene concentration in mg/kg for each approximate depth. Locations are not shown where there is no sample result for the depth. U and UJ qualified data were gridded using a value of 1/2 the detection limit.

Sample results within 50 ft of the approximate depth are posted, except for plot 5300. Plot 5300 shows sample results within 25 ft of the approximate depth. For example, plot 5000 includes sample results from 300 to 400 ft bgs. Plot 5300 includes sample results from 25 to 75 ft bgs. This D-size drawing (22" by 34") is best viewed at full scale to read posted data values.

See Figure 4-2 for locations with ID numbers and analytical database in Appendix E for data.

Legend

- 0.00055 Monitor Well with Xylenes Soil Concentration (mg/kg)
- 0.0012 SVM Cluster with Xylenes Soil Concentration (mg/kg)
- Cross-Section Line
- Installation Boundary
- Aboveground Fuel Transfer Lines
- Underground Fuel Transfer Lines
- Highway
- Major Road
- Road
- Structure
- Runway



Revision Date: 12/15/11

N

0 400 800 1,600

Feet

1 inch = 400 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

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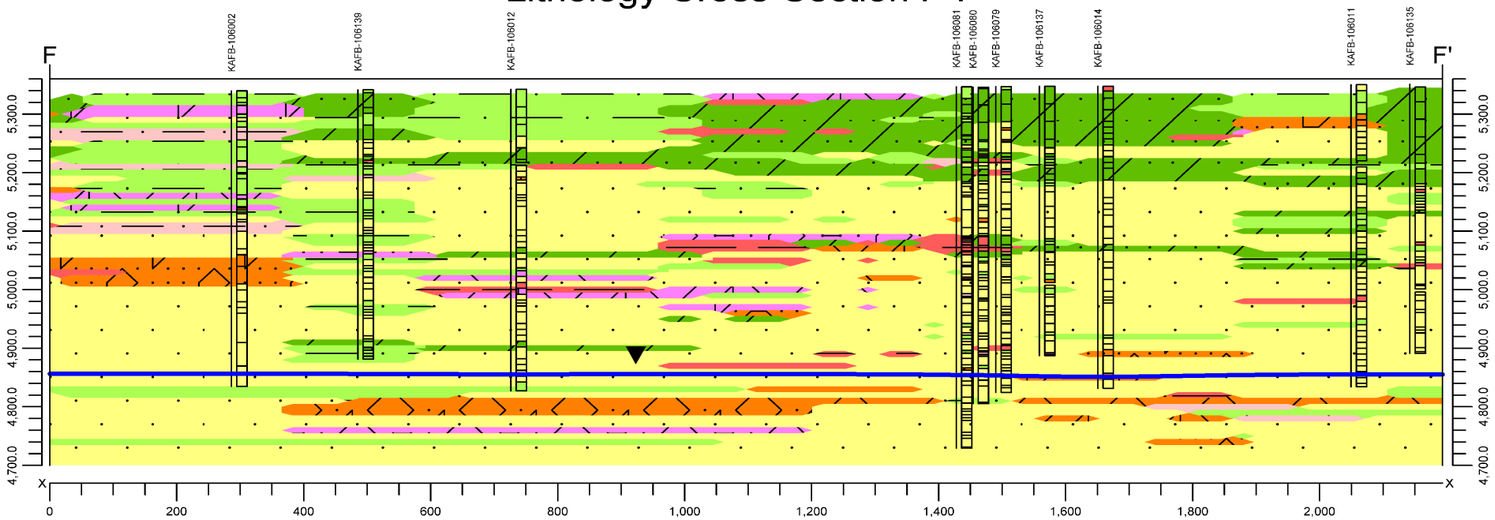
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-9

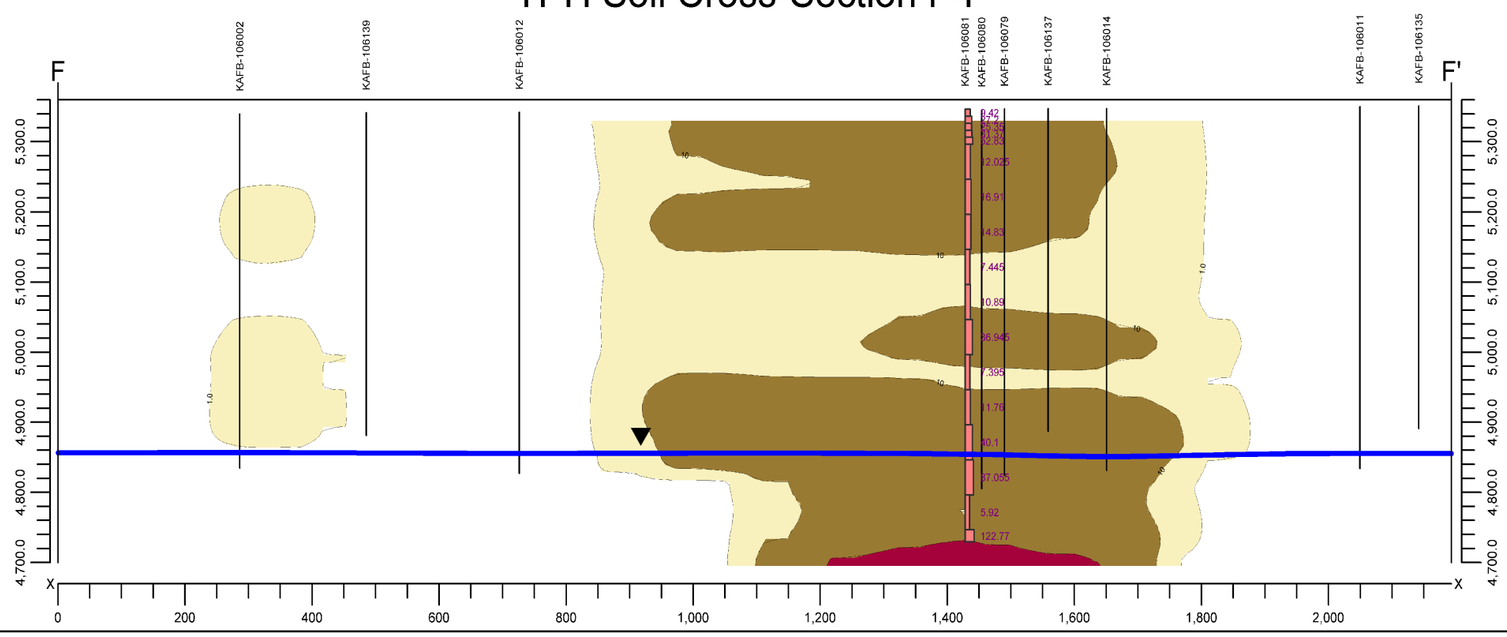
SOIL TOTAL XYLENES
FOOTPRINTS BY ELEVATION
JANUARY 2007 - AUGUST 2011

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_009_Xylenes_SO_plan_Dsize.mxd 12/15/11

Lithology Cross-Section F-F'



TPH Soil Cross-Section F-F'



Lithology Index

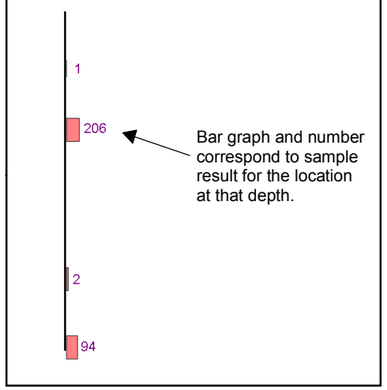
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

TPH Concentration (mg/kg)

- 1.0 - 10.0
- 10.0 - 100.0
- 100.0 - 1,000.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-3 for cross-section location map.

Revision Date: 11/22/11

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BULK FUELS FACILITY
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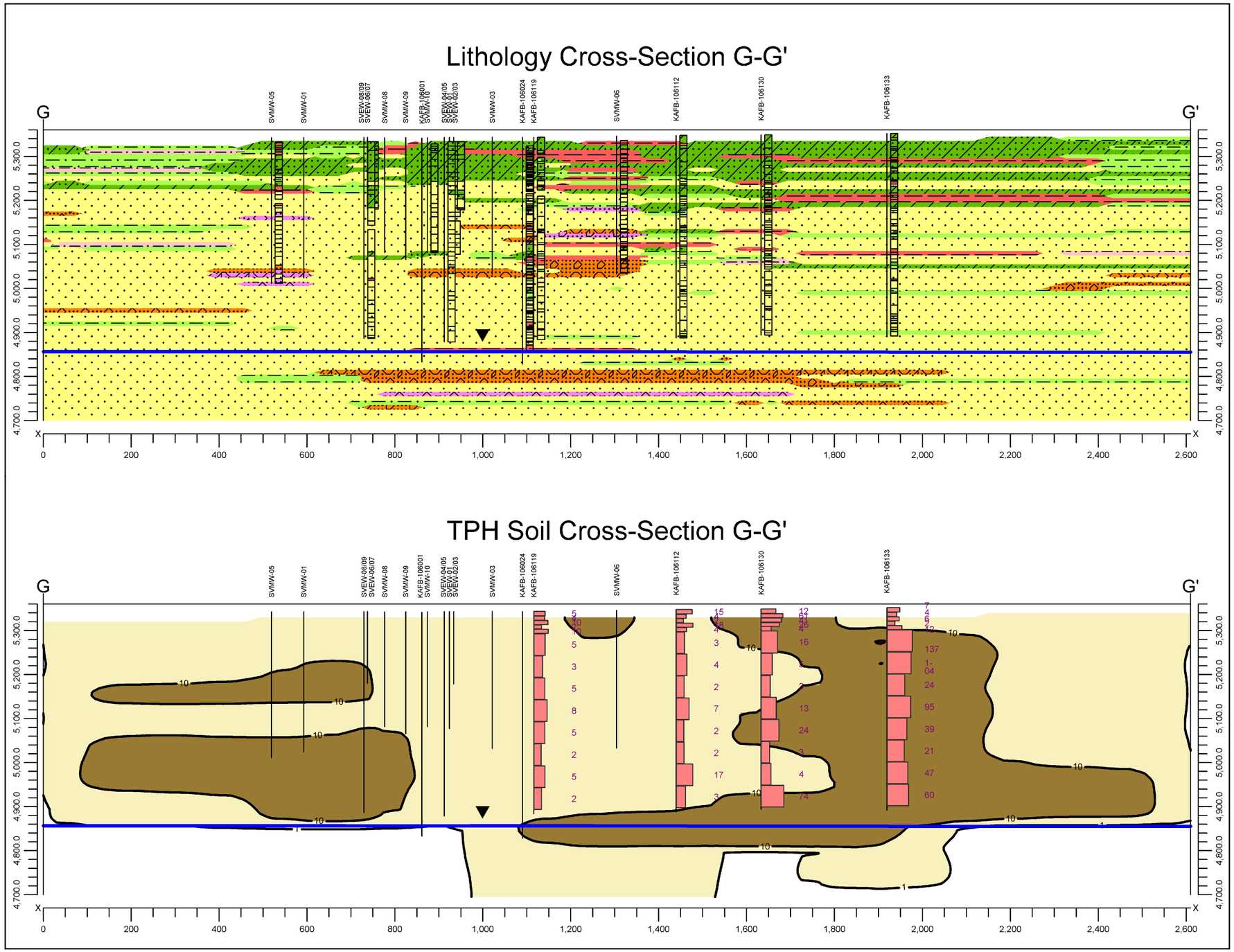
APPENDIX J2-10

LITHOLOGY AND TPH SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_020_TPH_SO_cross_section_FF.mxd 11/22/11



Lithology Index

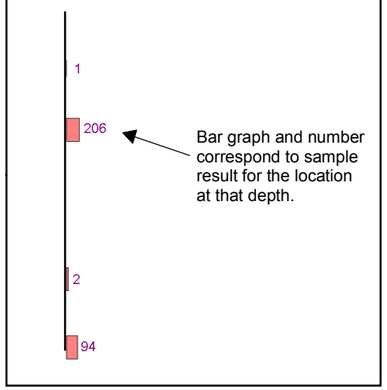
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

TPH Concentration (mg/kg)

- 1.0 - 10.0
- 10.0 - 100.0
- 100.0 - 1,000.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-3 for cross-section location map.

Revision Date: 11/22/11

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BULK FUELS FACILITY
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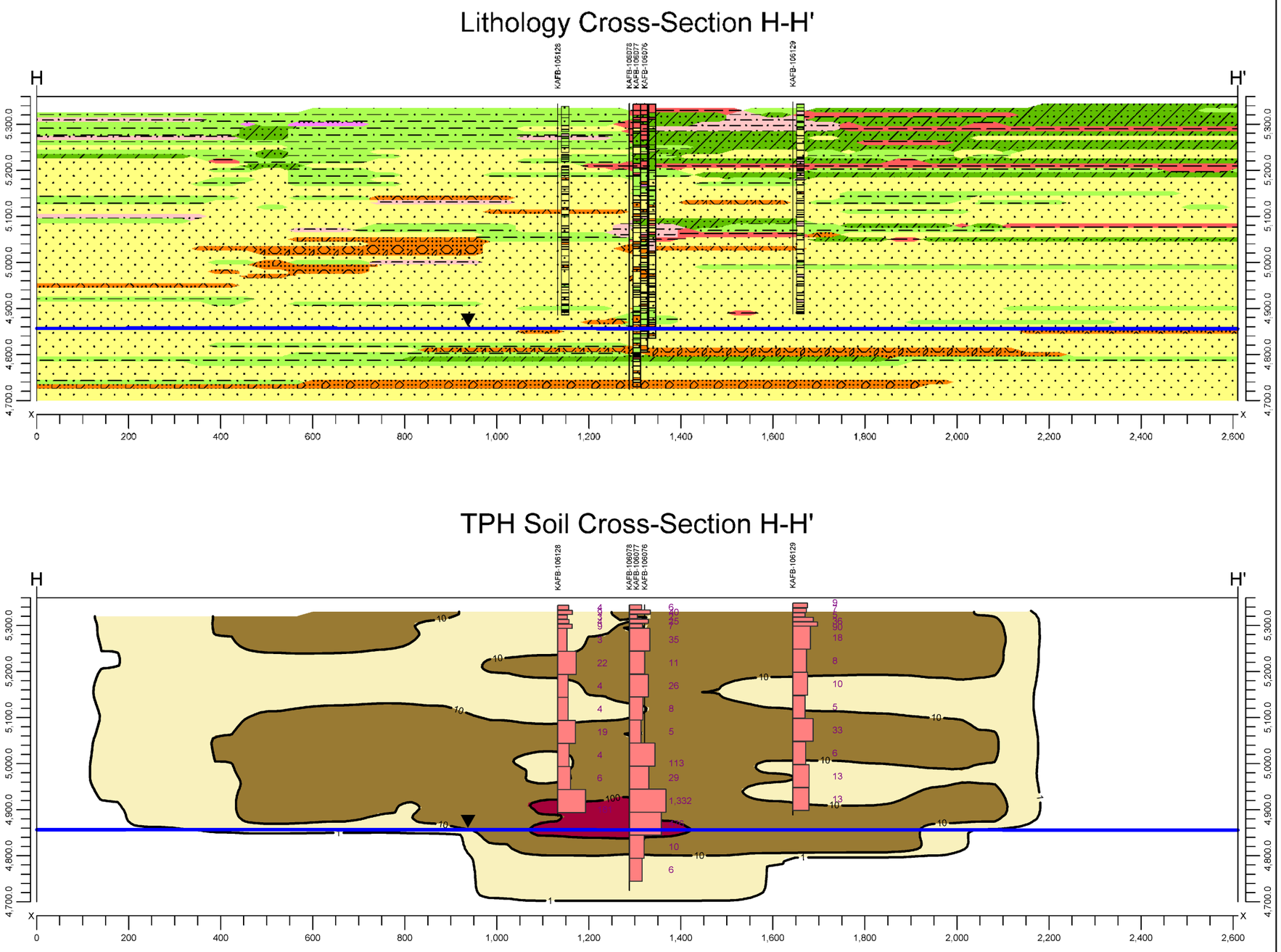
APPENDIX J2-11

LITHOLOGY AND TPH SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_021_TPH_SO_cross_section_GG.mxd 11/22/11



Lithology Index

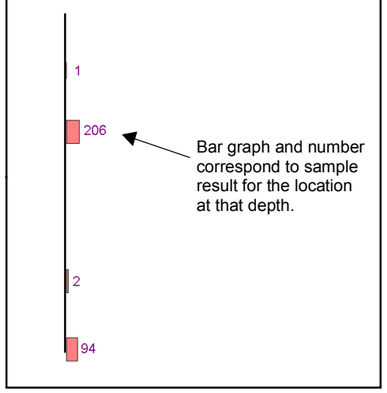
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

TPH Concentration (mg/kg)

- 1.0 - 10.0
- 10.0 - 100.0
- 100.0 - 1,000.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-3 for cross-section location map.

Revision Date: 11/22/11

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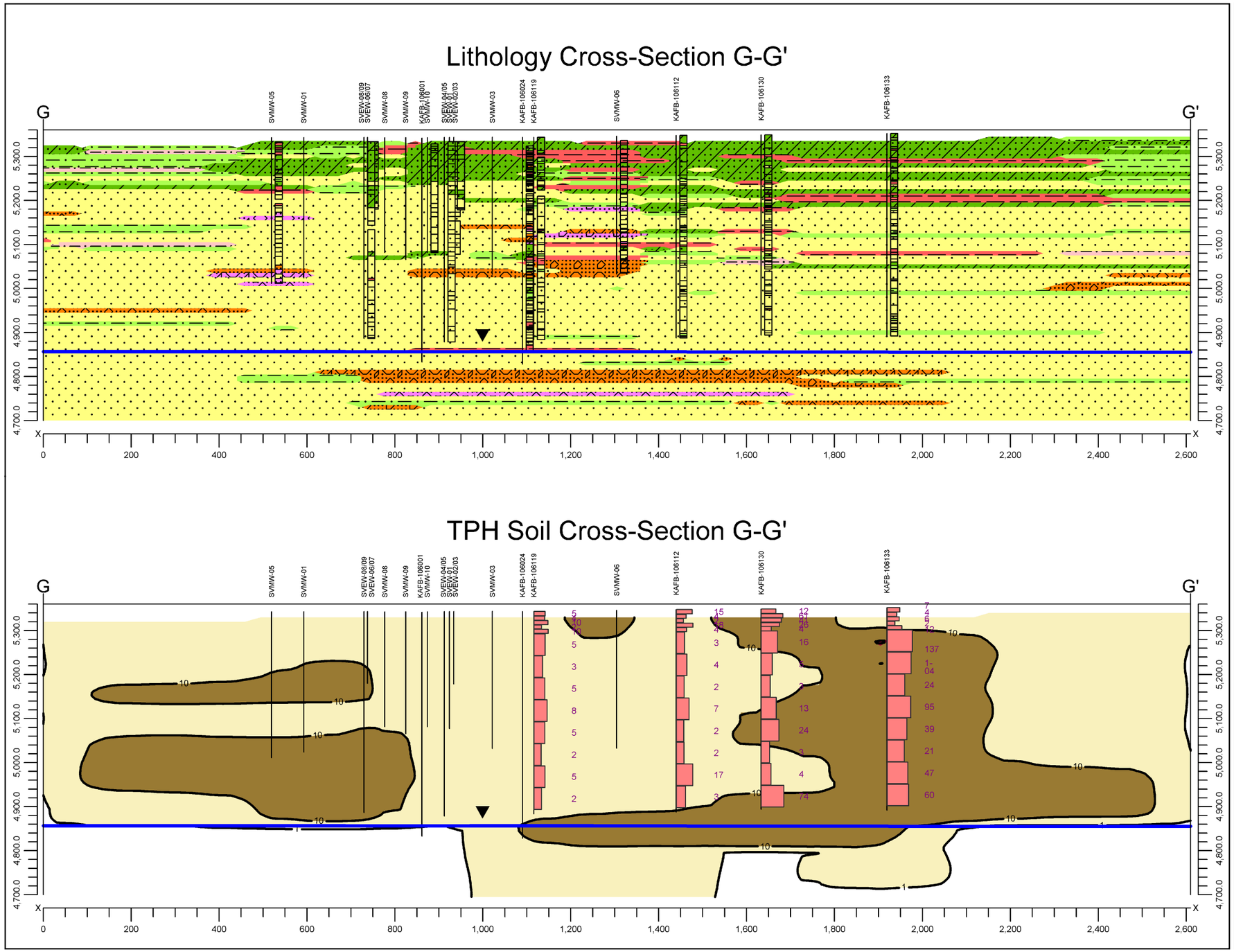
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-12

LITHOLOGY AND TPH SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_022_TPH_SO_cross_section_HH.mxd 11/22/11



Lithology Index

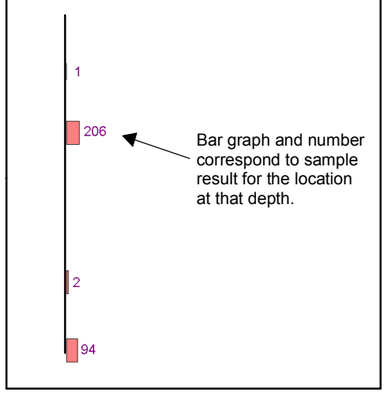
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

TPH Concentration (mg/kg)

- 1.0 - 10.0
- 10.0 - 100.0
- 100.0 - 1,000.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-3 for cross-section location map.

Revision Date: 11/22/11

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BULK FUELS FACILITY
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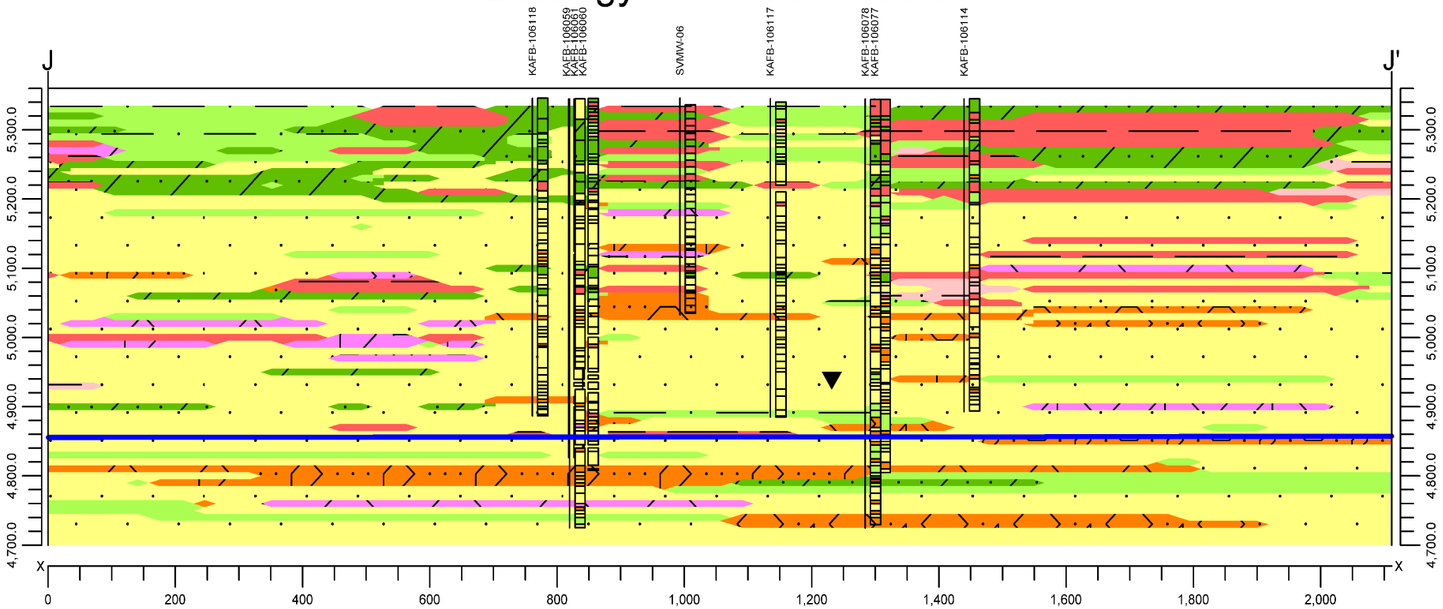
APPENDIX J2-13

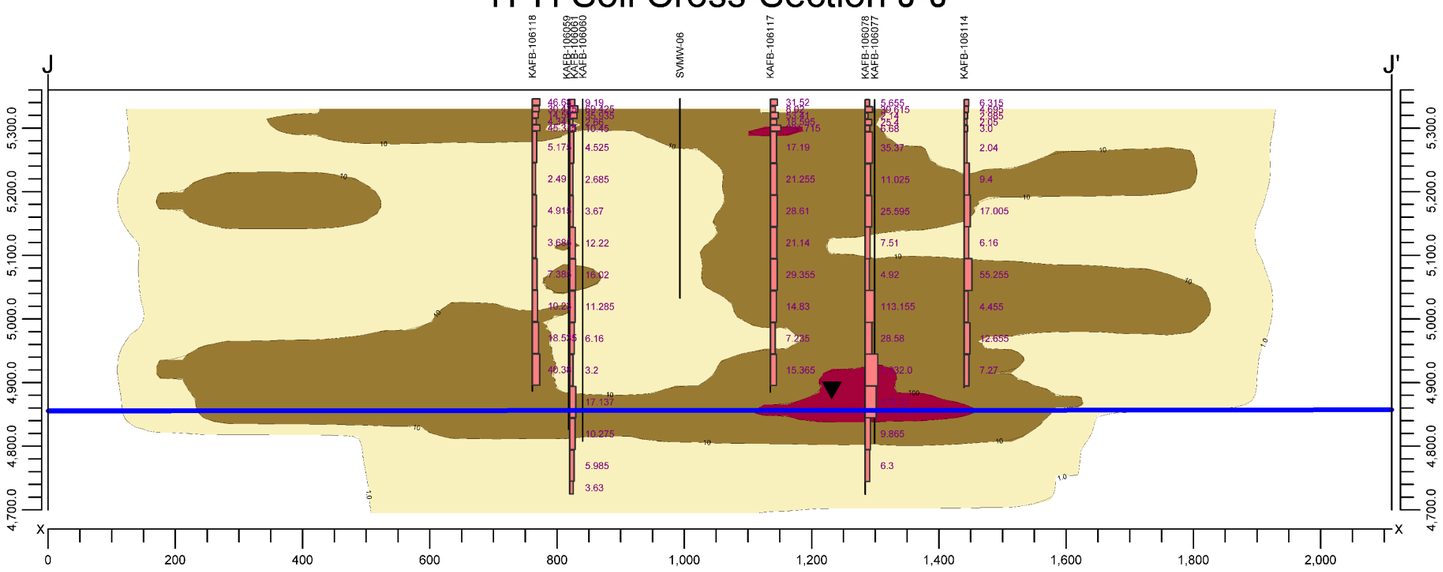
LITHOLOGY AND TPH SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_021_TPH_SO_cross_section_GG.mxd 11/22/11

Lithology Cross-Section J-J'



TPH Soil Cross-Section J-J'



Lithology Index

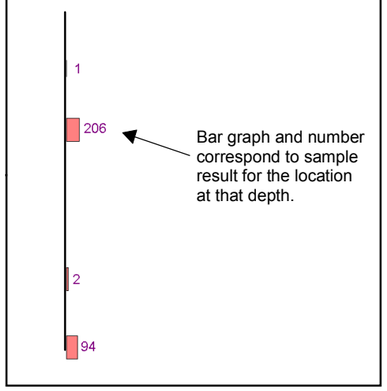
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

TPH Concentration (mg/kg)

- 1.0 - 10.0
- 10.0 - 100.0
- 100.0 - 1,000.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-3 for cross-section location map.

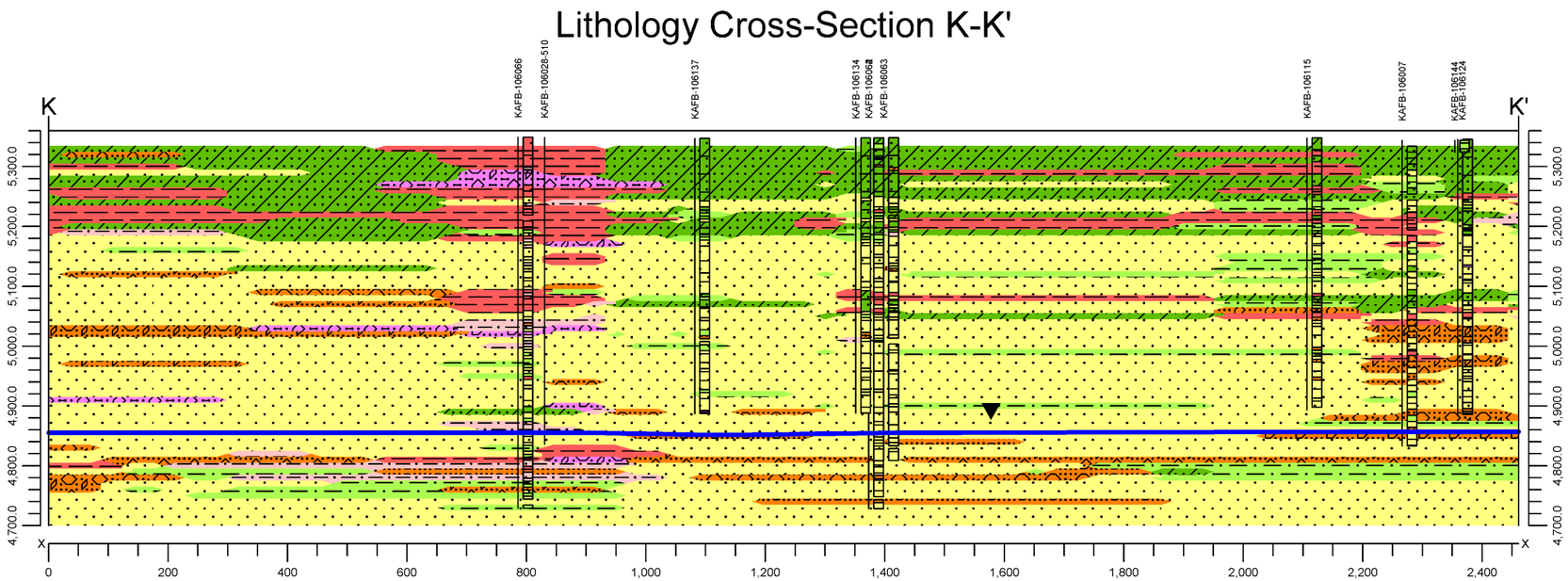
Revision Date: 11/22/11

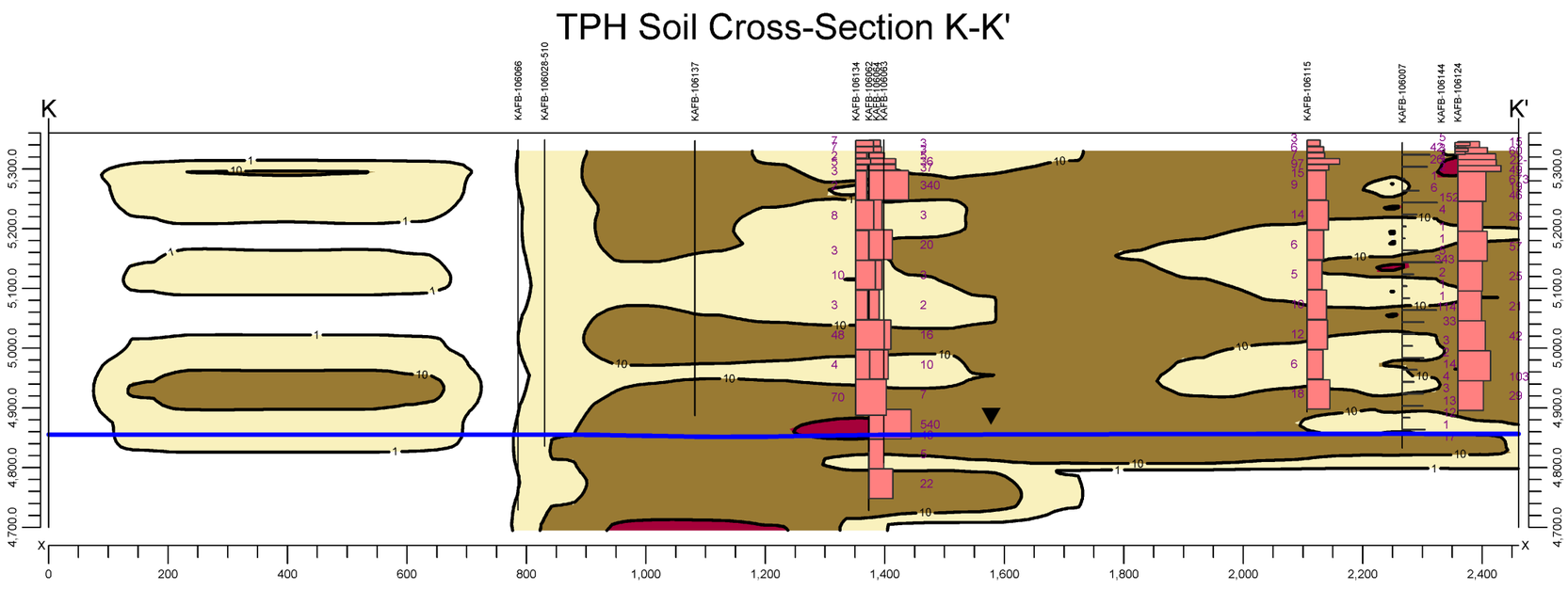
2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-14

LITHOLOGY AND TPH SOIL
NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_024_TPH_SO_cross_section_JJ.mxd 11/22/11





Lithology Index

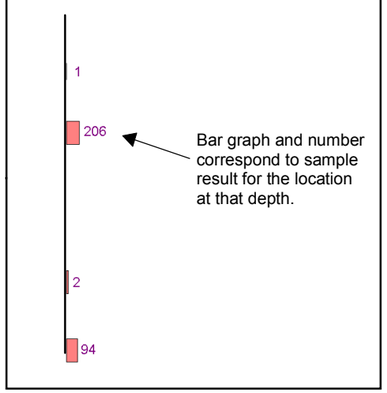
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

TPH Concentration (mg/kg)

- 1.0 - 10.0
- 10.0 - 100.0
- 100.0 - 1,000.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-3 for cross-section location map.

Revision Date: 11/22/11

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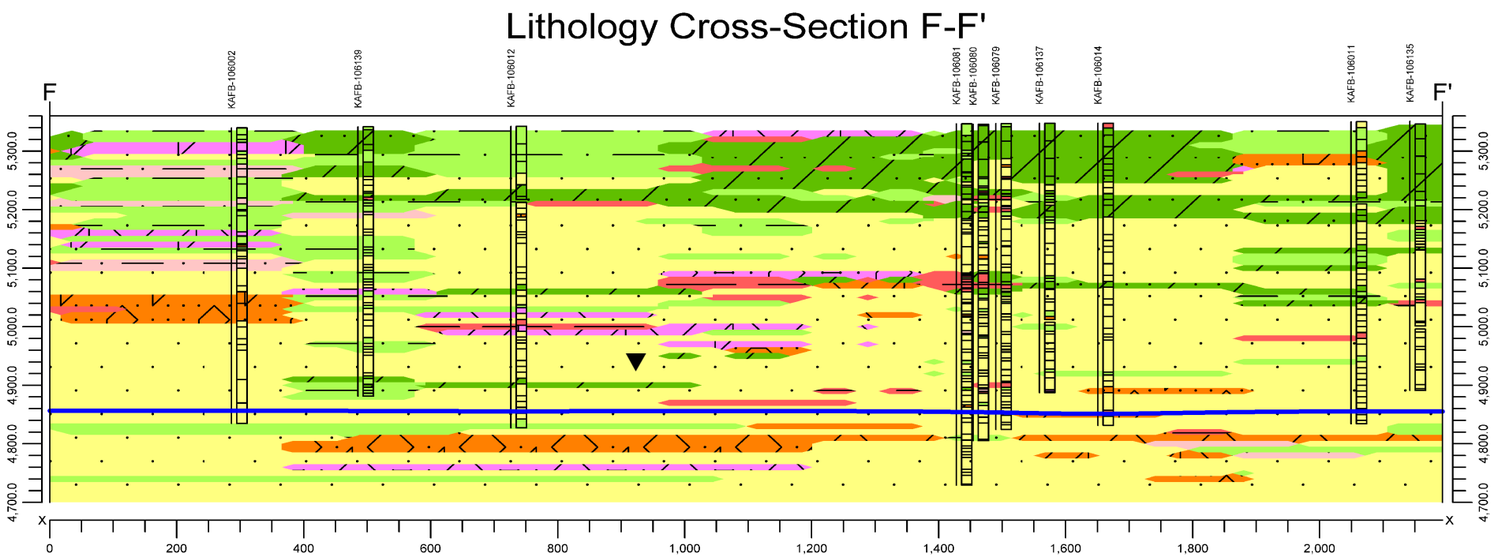
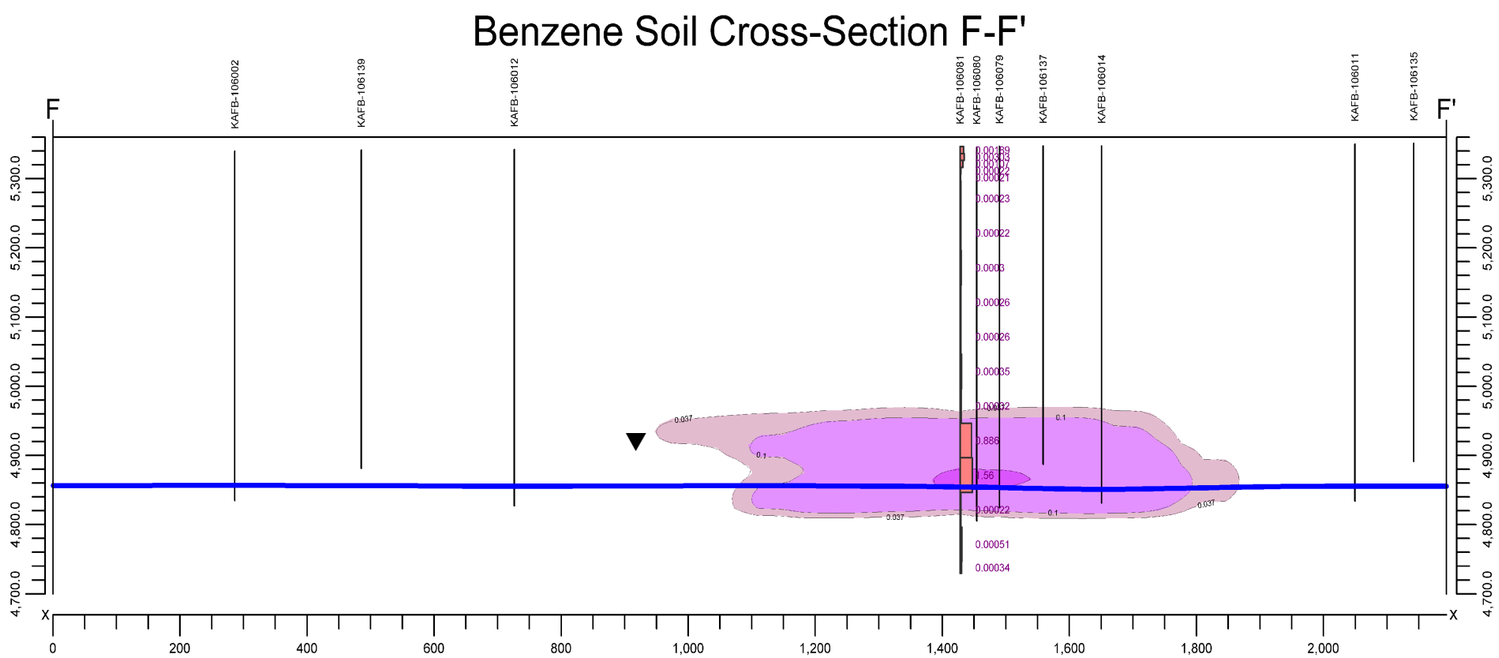
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-15

LITHOLOGY AND TPH SOIL
NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_025_TPH_SO_cross_section_KK.mxd 11/22/11





Lithology Index

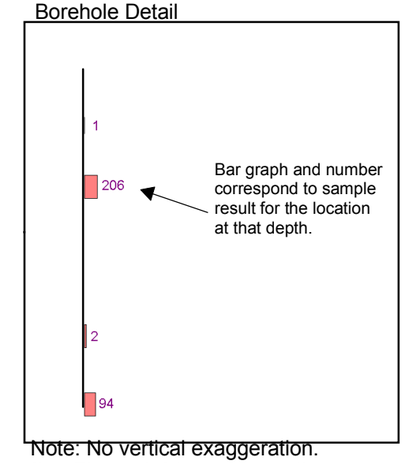
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Benzene Concentration (mg/kg)

- 0.037 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-4 for cross-section location map.

Revision Date: 11/22/11

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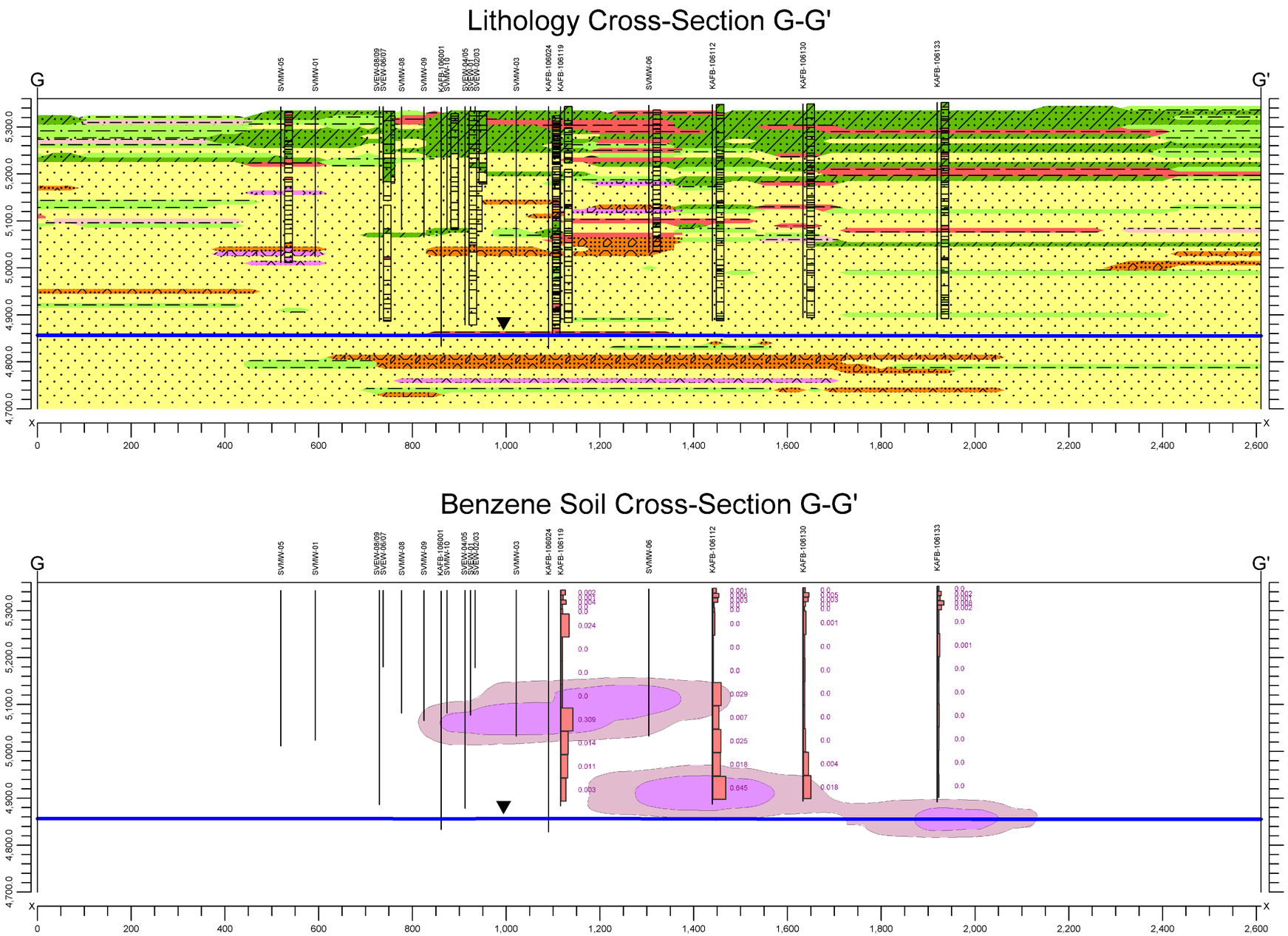
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-16

LITHOLOGY AND BENZENE SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_014_BNZ_SO_cross_section_FF.mxd 11/22/11



Lithology Index

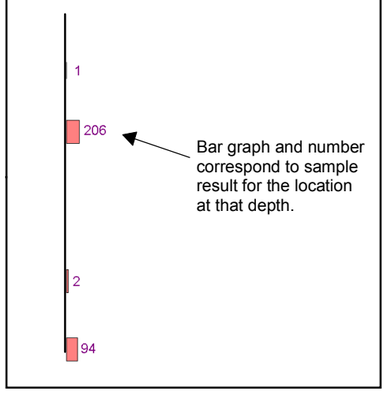
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Benzene Concentration (mg/kg)

- 0.037 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-4 for cross-section location map.

Revision Date: 11/22/11

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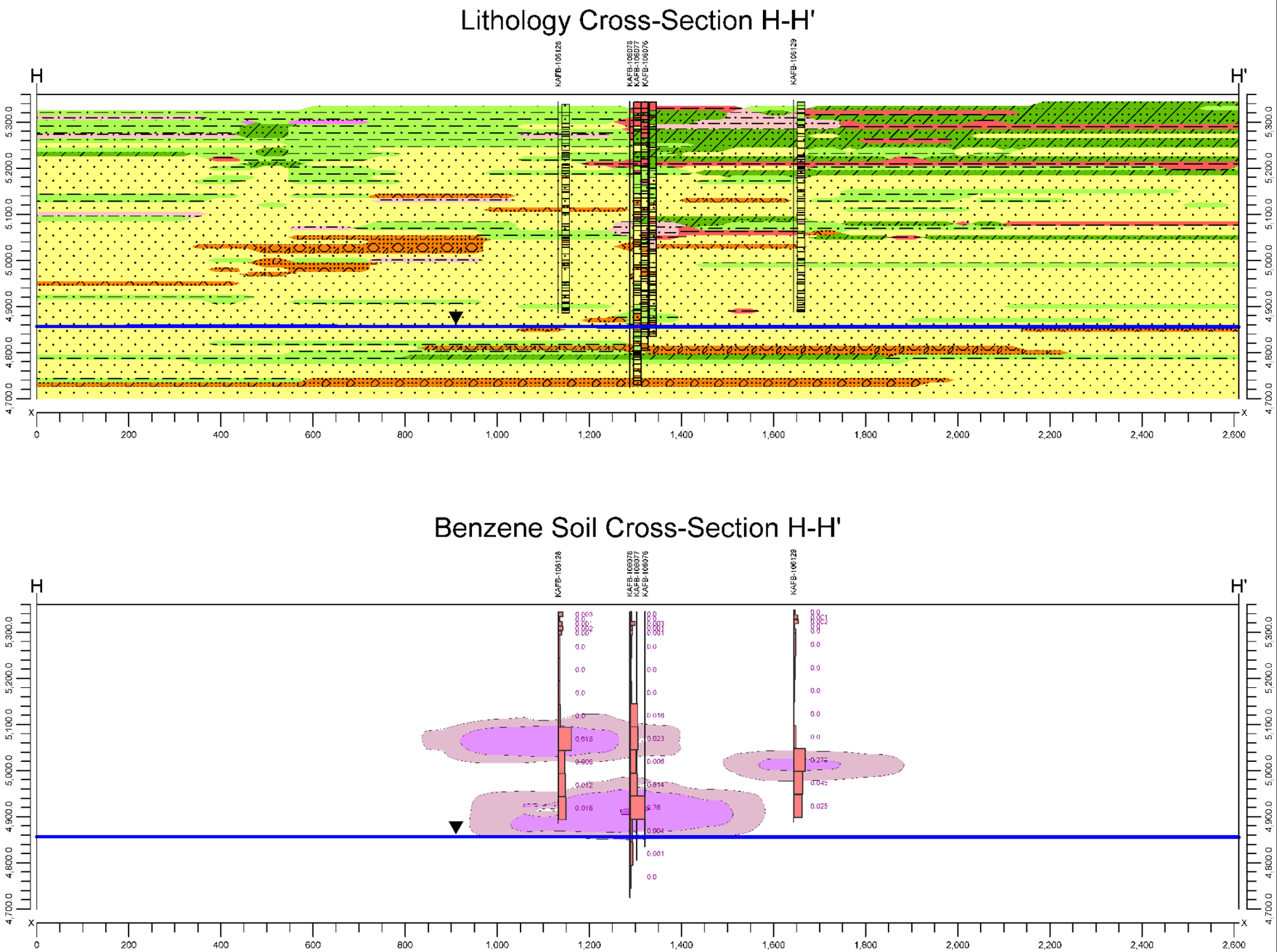
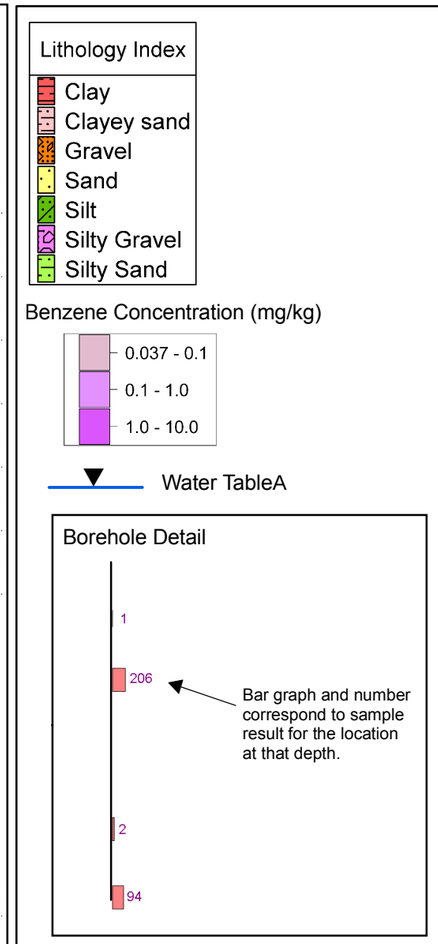
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-17

LITHOLOGY AND BENZENE SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_015_BNZ_SO_cross_section_GG.mxd 11/22/11





Note: No vertical exaggeration.
See Figure 4-4 for cross-section location map.

Revision Date: 11/22/11

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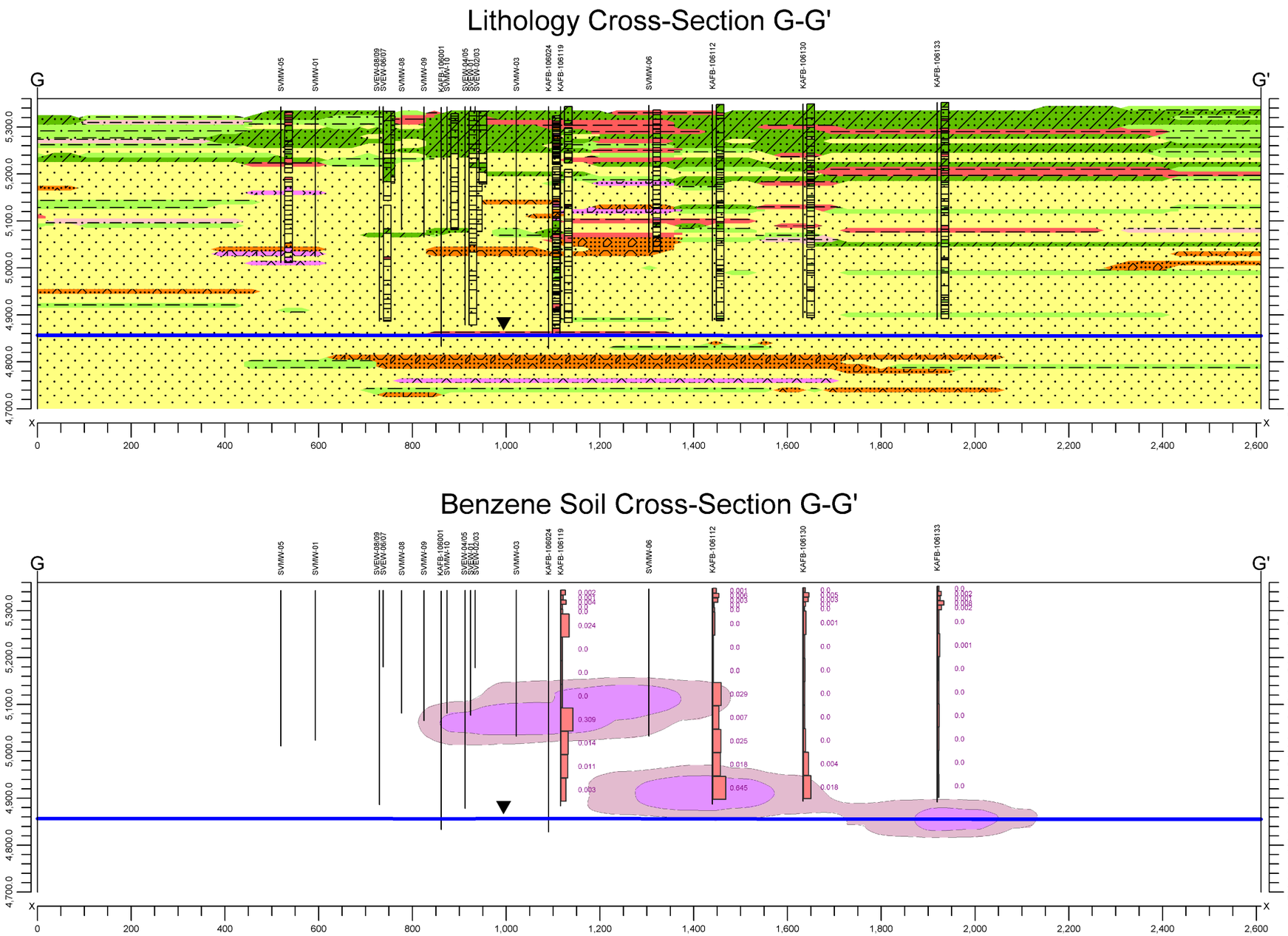
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-18

LITHOLOGY AND BENZENE SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_016_BNZ_SO_cross_section_HH.mxd 11/22/11



Lithology Index

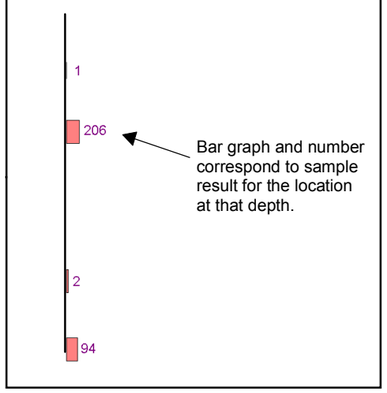
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Benzene Concentration (mg/kg)

- 0.037 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-4 for cross-section location map.

Revision Date: 11/22/11

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BULK FUELS FACILITY
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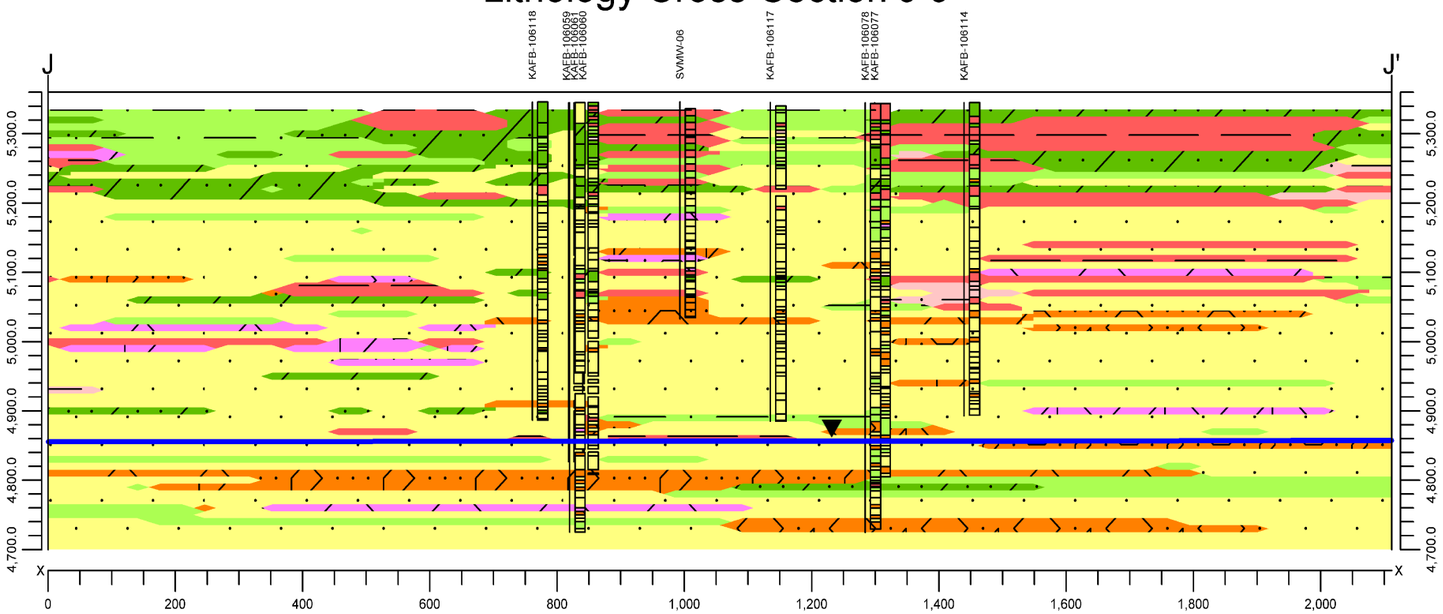
APPENDIX J2-19

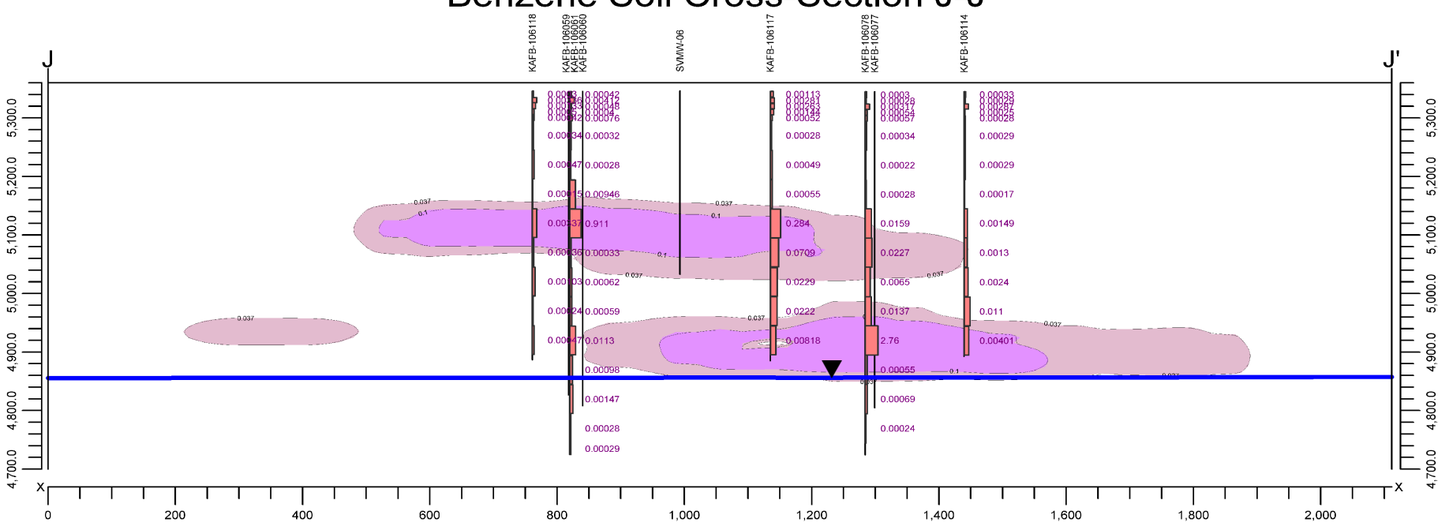
LITHOLOGY AND BENZENE SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_015_BNZ_SO_cross_section_GG.mxd 11/22/11

Lithology Cross-Section J-J'



Benzene Soil Cross-Section J-J'



Lithology Index

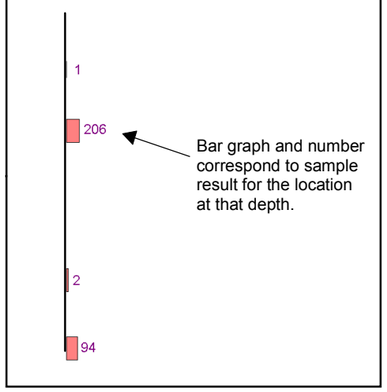
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Benzene Concentration (mg/kg)

- 0.037 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water TablA

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-4 for cross-section location map.

Revision Date: 11/22/11

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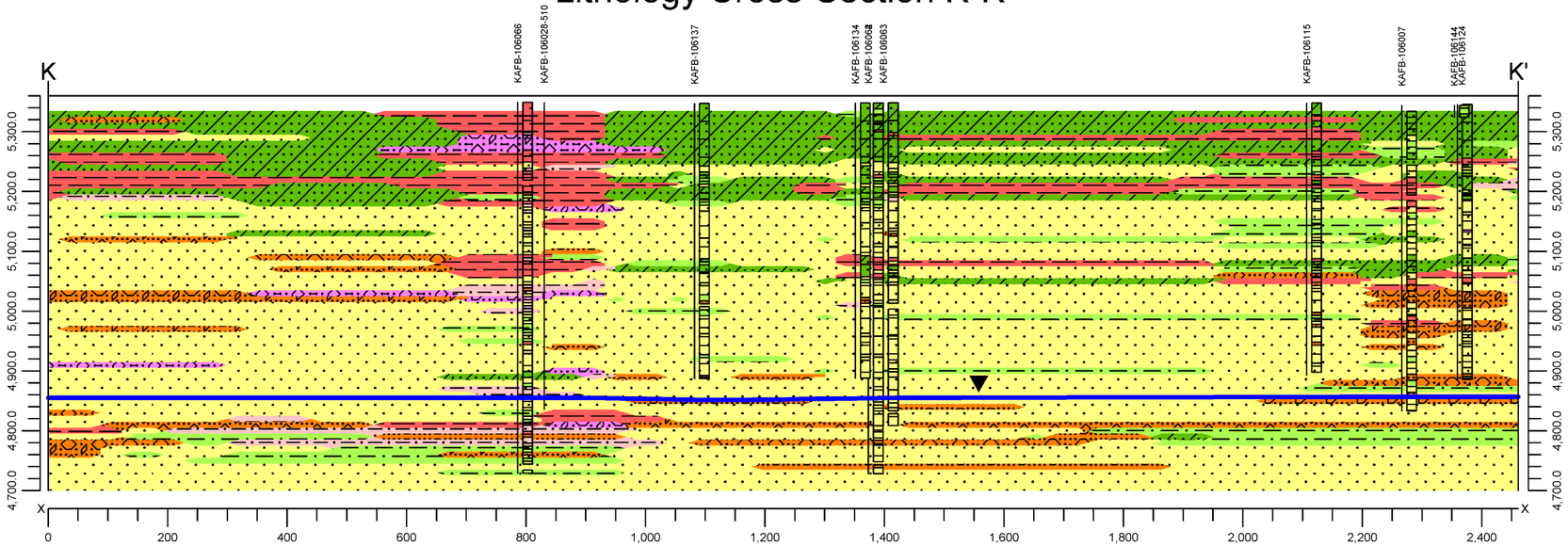
APPENDIX J2-20

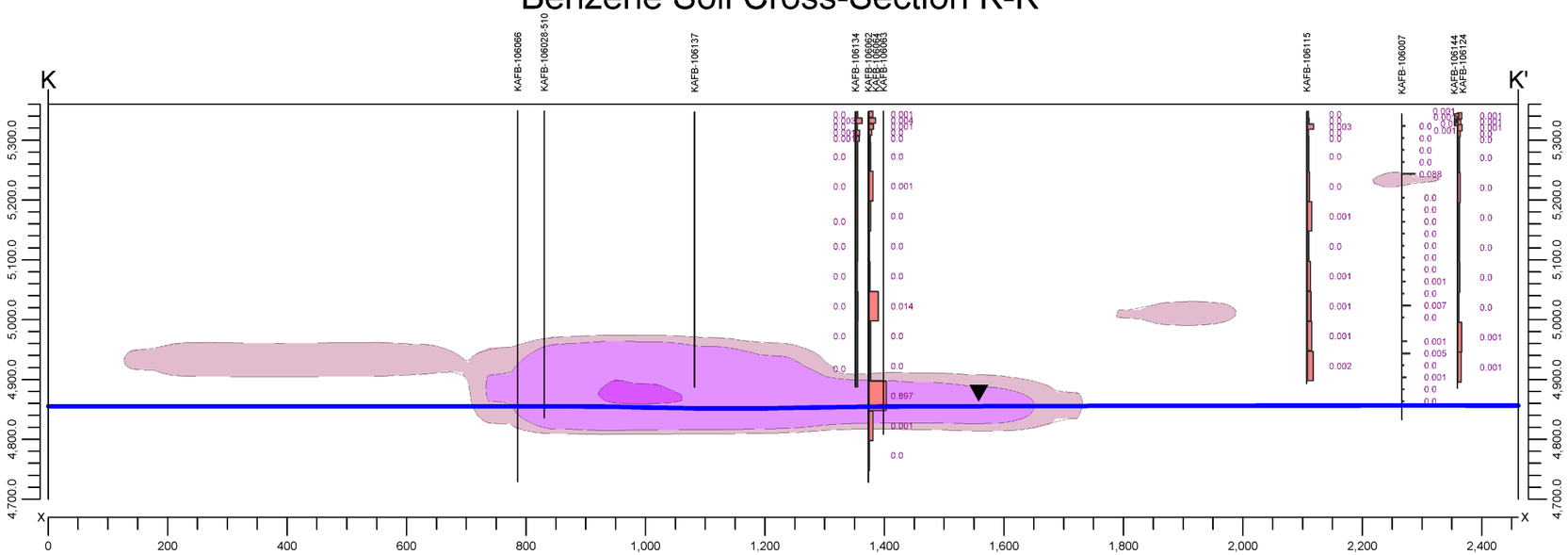
LITHOLOGY AND BENZENE SOIL
NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_018_BNZ_SO_cross_section_JJ.mxd 11/22/11

Lithology Cross-Section K-K'



Benzene Soil Cross-Section K-K'



Lithology Index

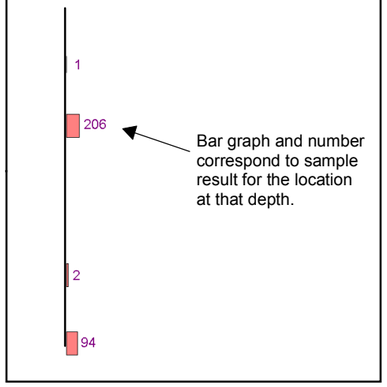
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Benzene Concentration (mg/kg)

- 0.037 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-4 for cross-section location map.

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BULK FUELS FACILITY
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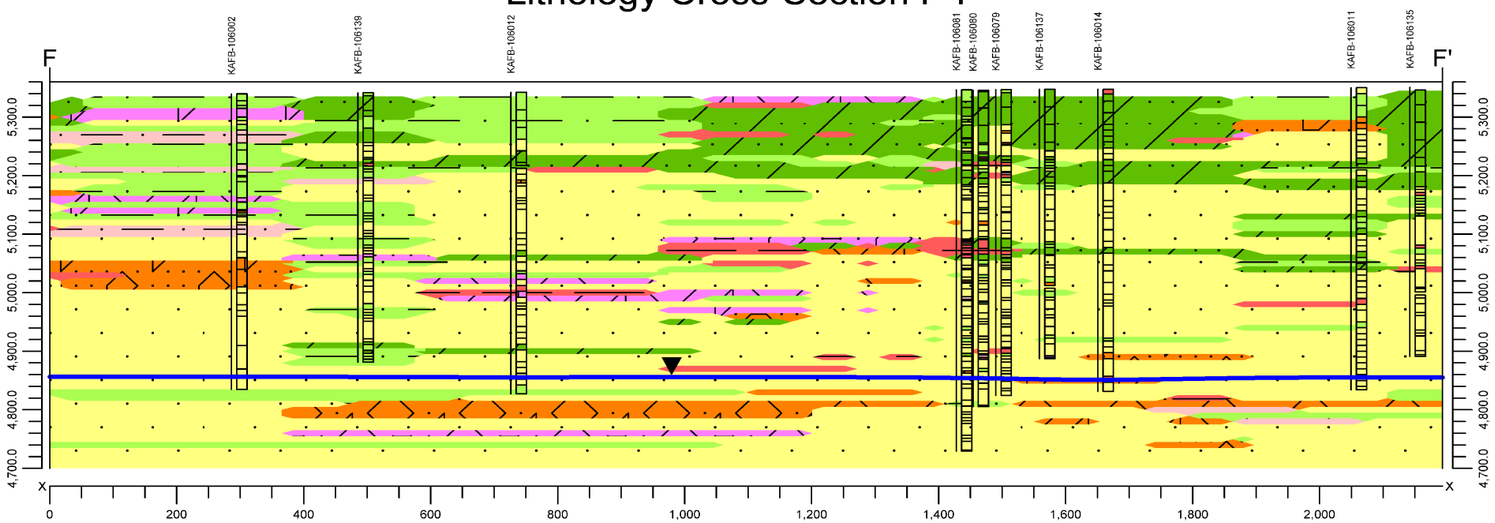
APPENDIX J2-21

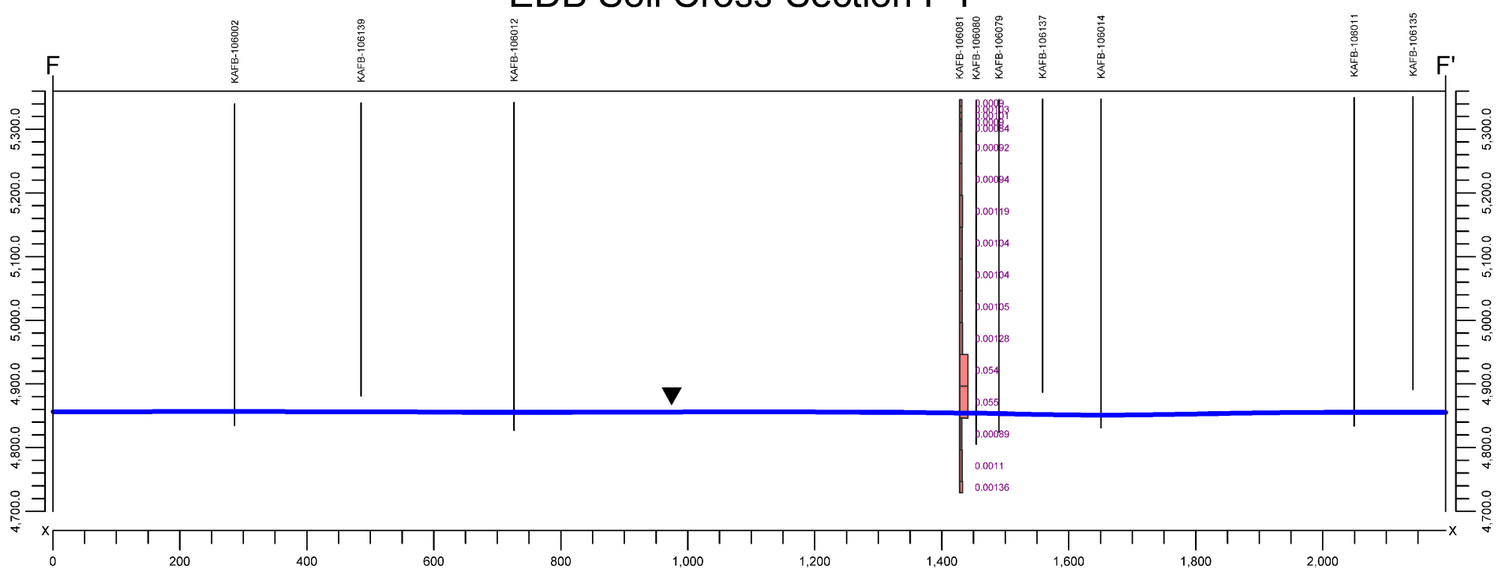
LITHOLOGY AND BENZENE SOIL
NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_019_BNZ_SO_cross_section_KK.mxd 11/22/11

Lithology Cross-Section F-F'



EDB Soil Cross-Section F-F'



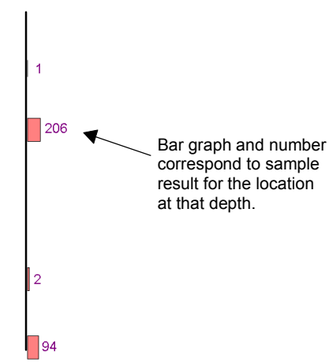
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

EDB Concentrations are in mg/kg

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-5 for cross-section location map.

Revision Date: 11/28/11

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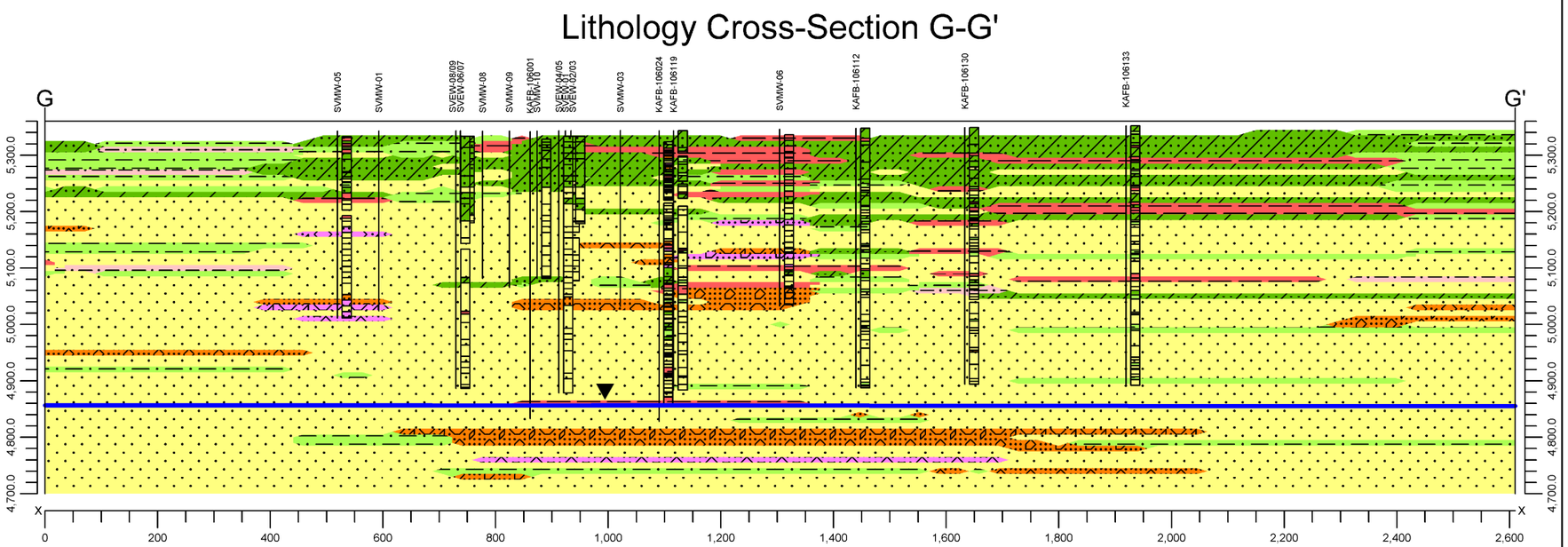
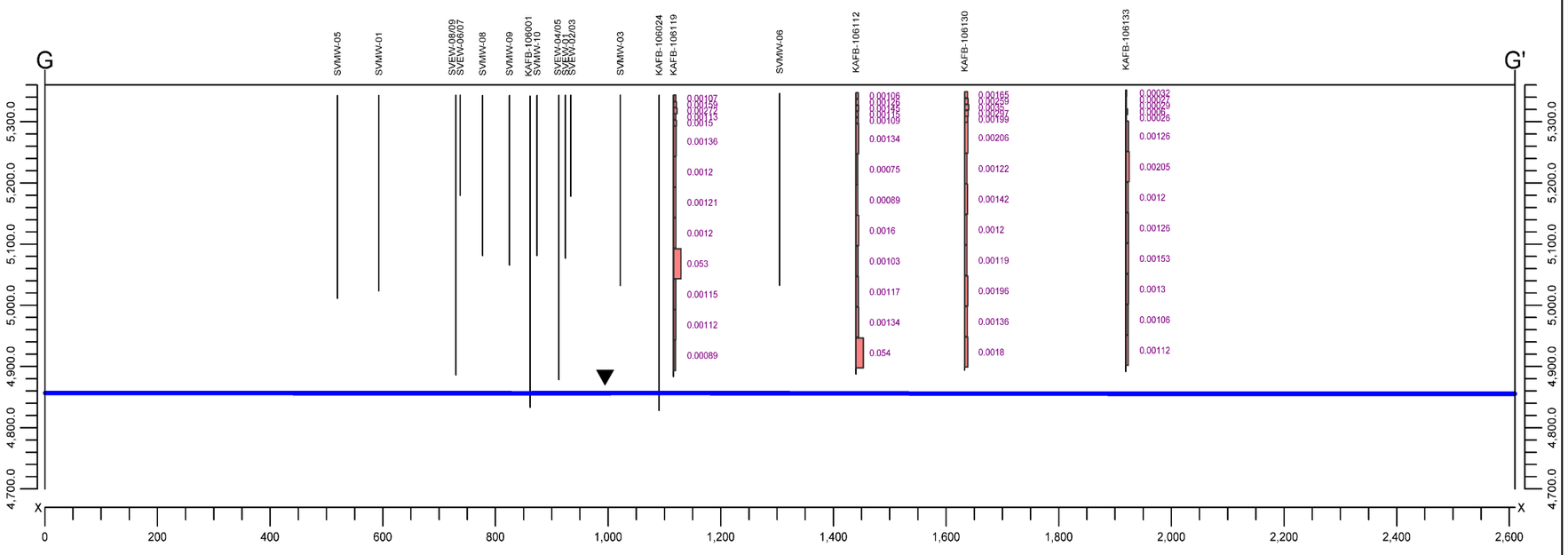
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-22

LITHOLOGY AND EDB SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_026_EDB_SO_cross_section_FF.mxd 11/28/11



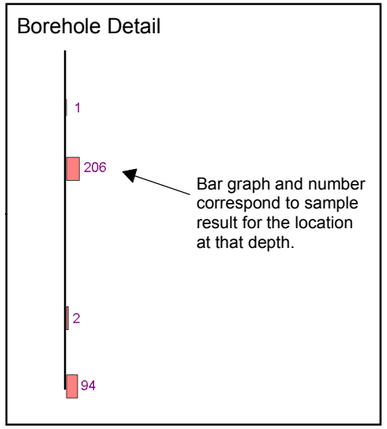


Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

EDB concentration is in mg/kg.

Water Table



Note: No vertical exaggeration.
See Figure 4-5 for cross-section location map.

Revision Date: 11/28/11

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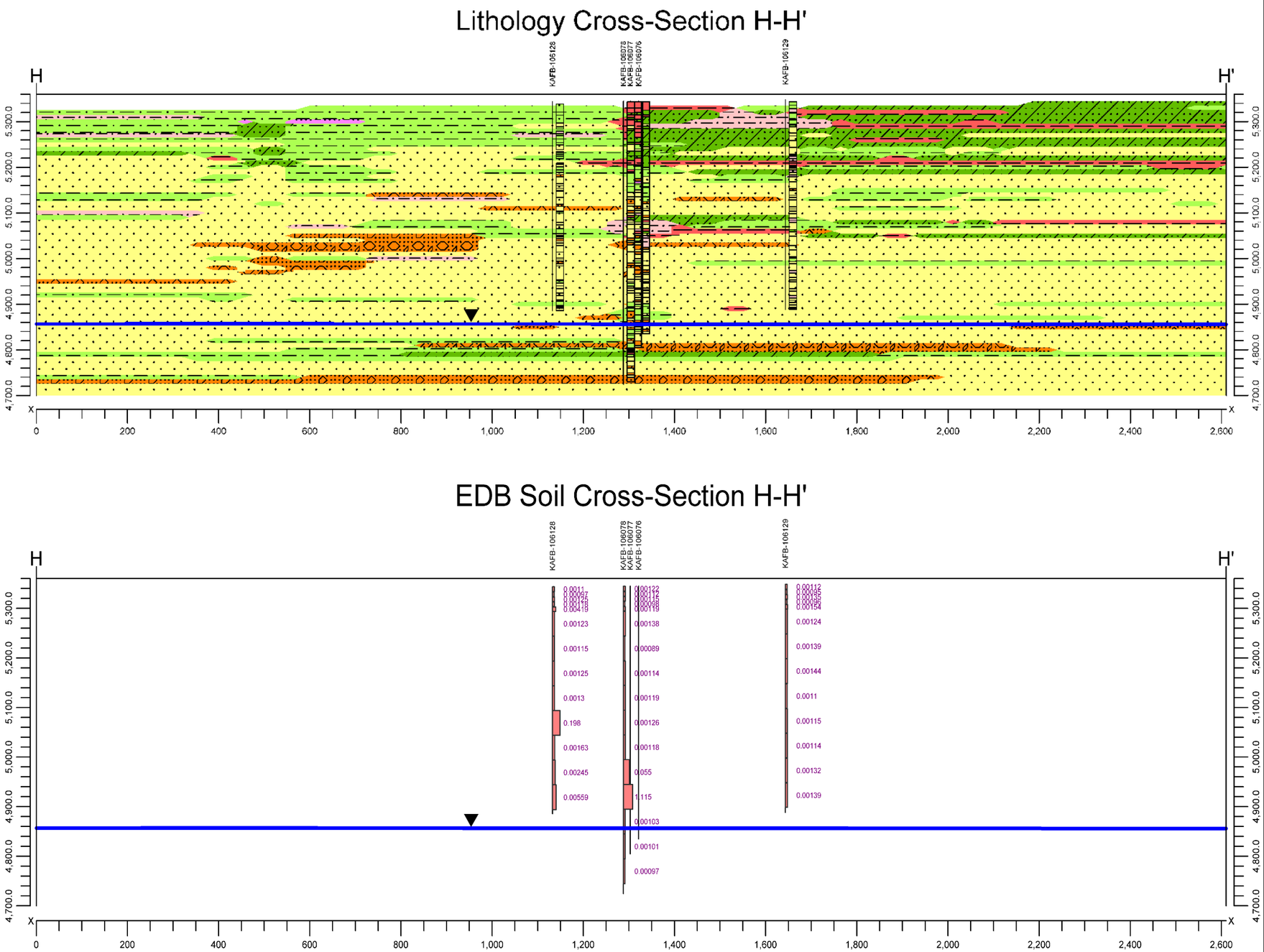
APPENDIX J2-23

LITHOLOGY AND EDB SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_027_EDB_SO_cross_section_GG.mxd 11/28/11



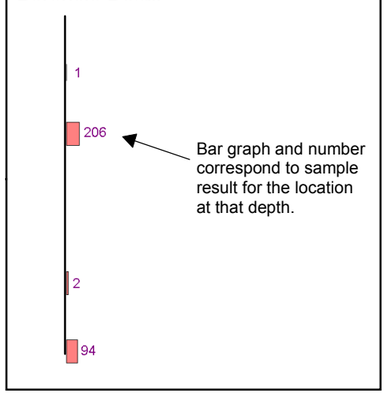
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

EDB concentration is in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-5 for cross-section location map.

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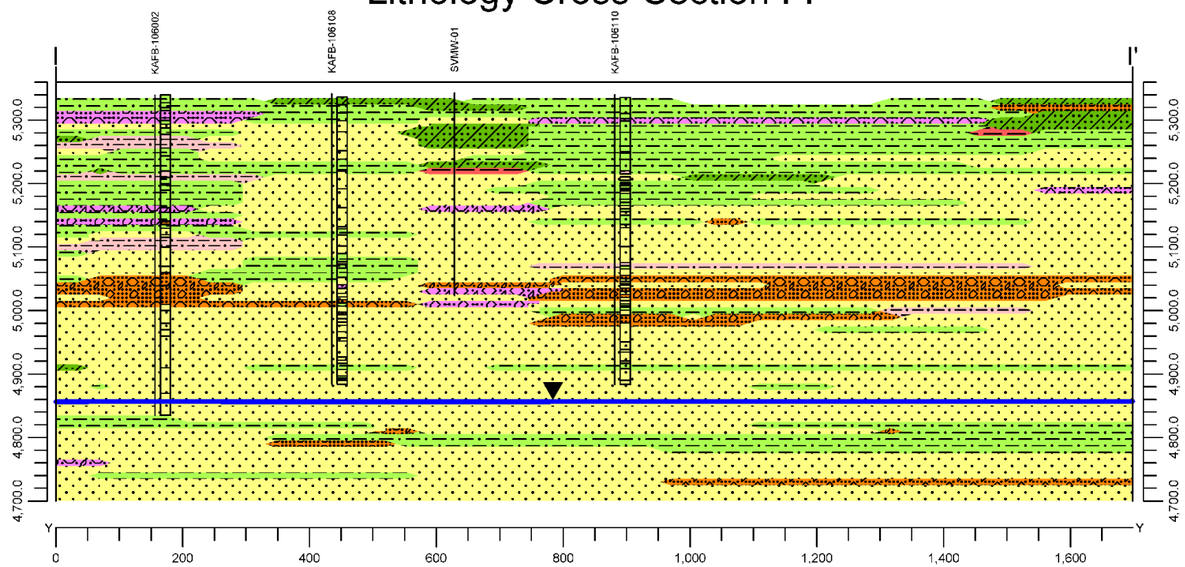
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-24

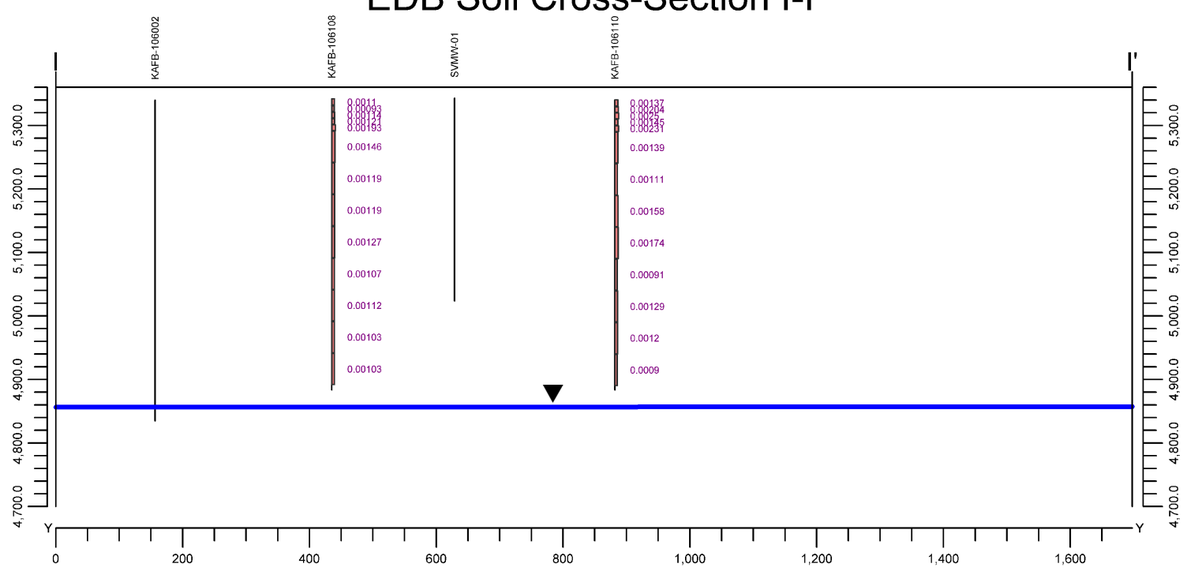
LITHOLOGY AND EDB SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_028_EDB_SO_cross_section_HH.mxd 11/28/11

Lithology Cross-Section I-I'



EDB Soil Cross-Section I-I'



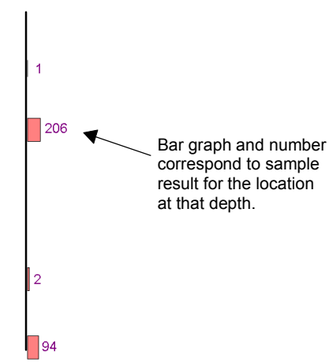
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

EDB concentration is in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-5 for cross-section location map.

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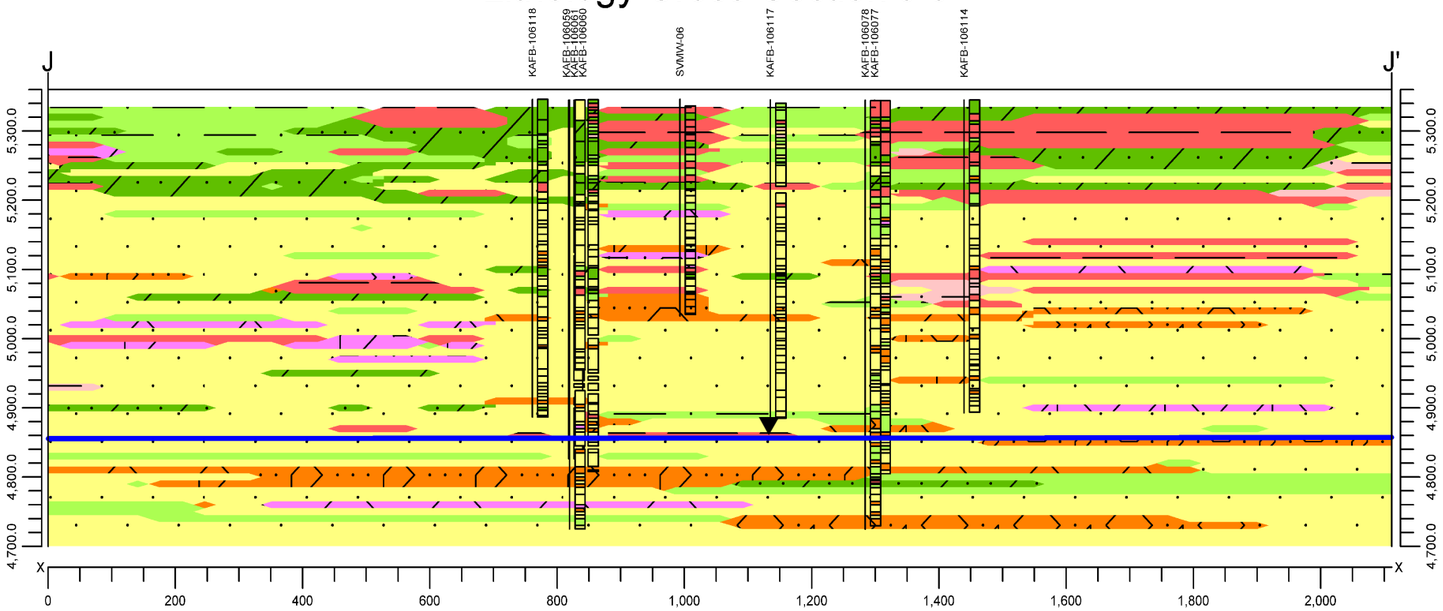
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-25

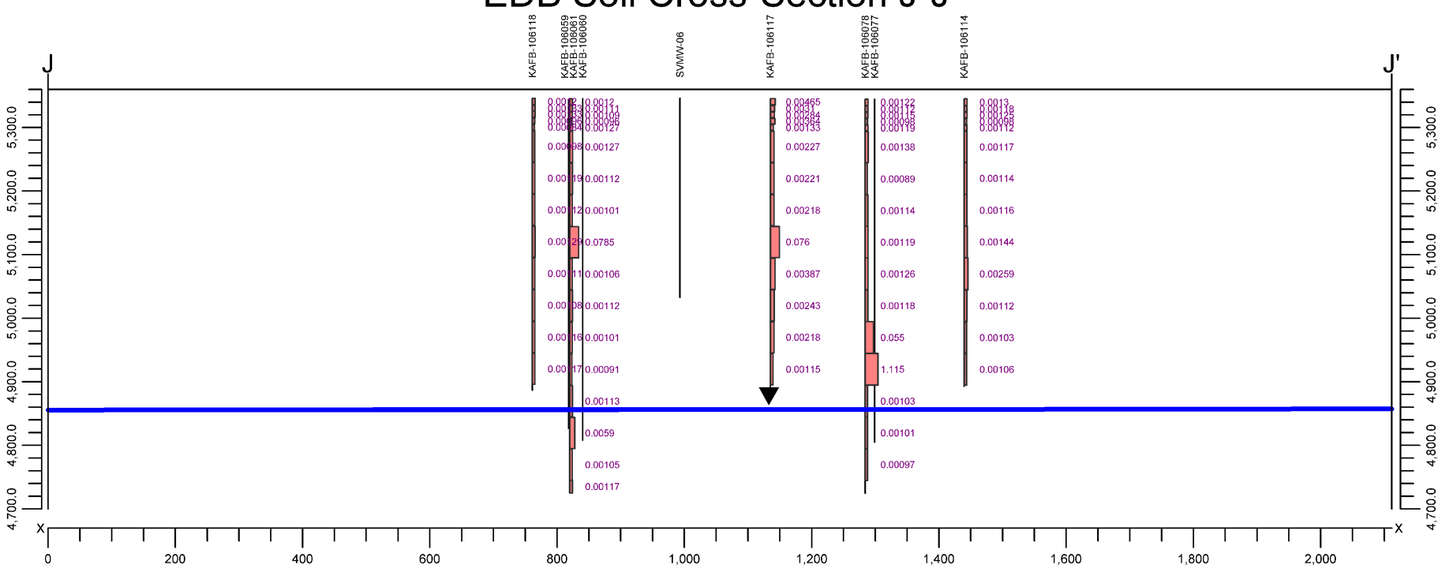
LITHOLOGY AND EDB SOIL
NORTH-SOUTH CROSS-SECTIONS I-I'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_029_EDB_SO_cross_section_II.mxd 11/28/11

Lithology Cross-Section J-J'



EDB Soil Cross-Section J-J'



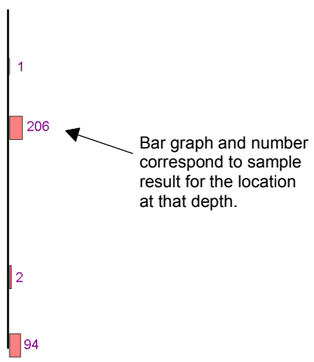
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

EDB concentration is in mg/kg.

Water Table

Borehole Detail



Bar graph and number correspond to sample result for the location at that depth.

Note: No vertical exaggeration.
See Figure 4-5 for cross-section location map.

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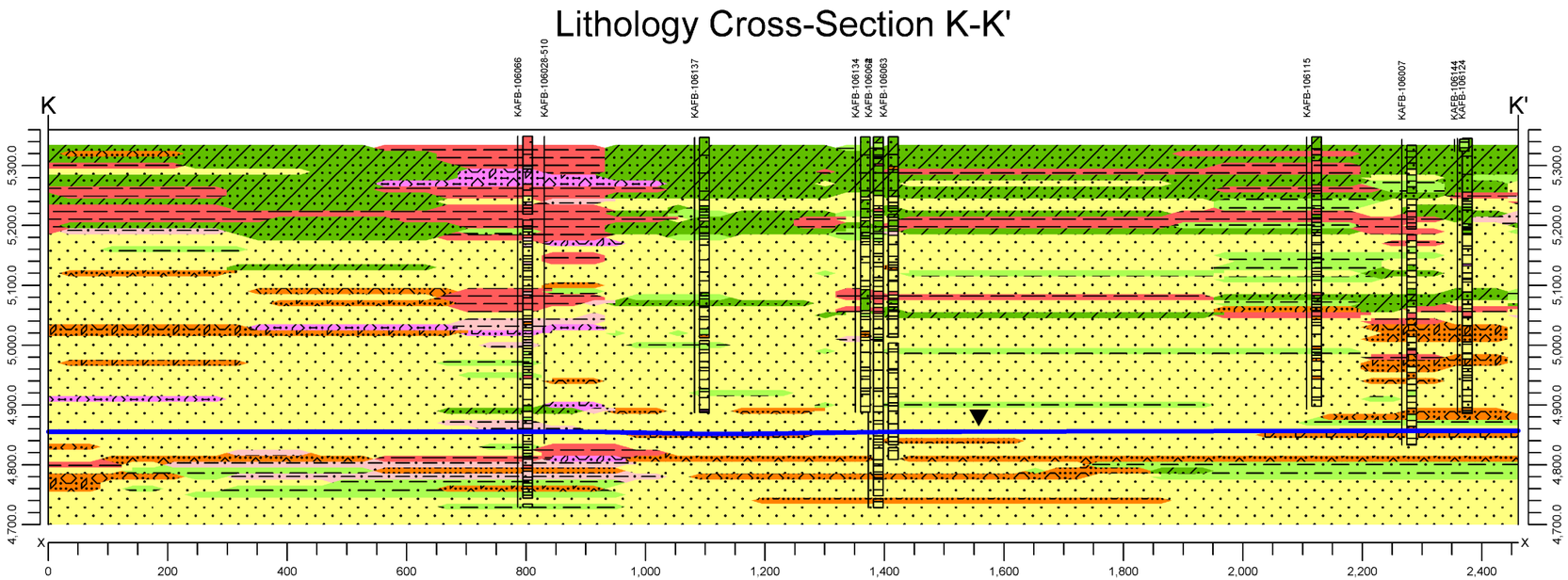
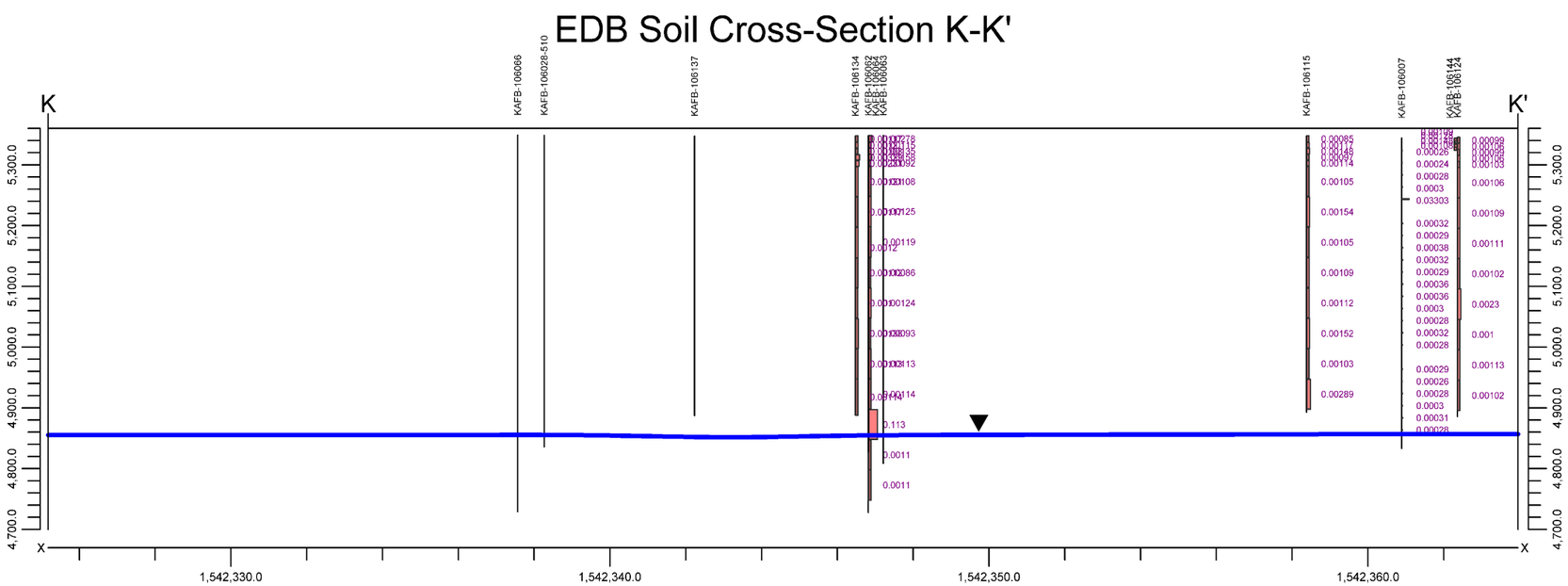
APPENDIX J2-26

LITHOLOGY AND EDB SOIL
NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_030_EDB_SO_cross_section_JJ.mxd 11/28/11





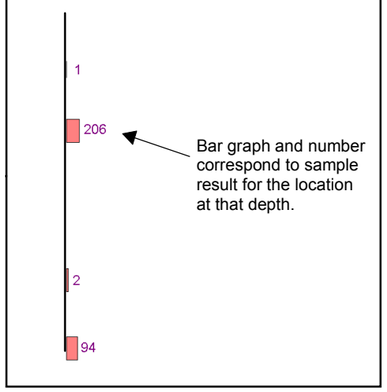
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

EDB concentration is in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-5 for cross-section location map.

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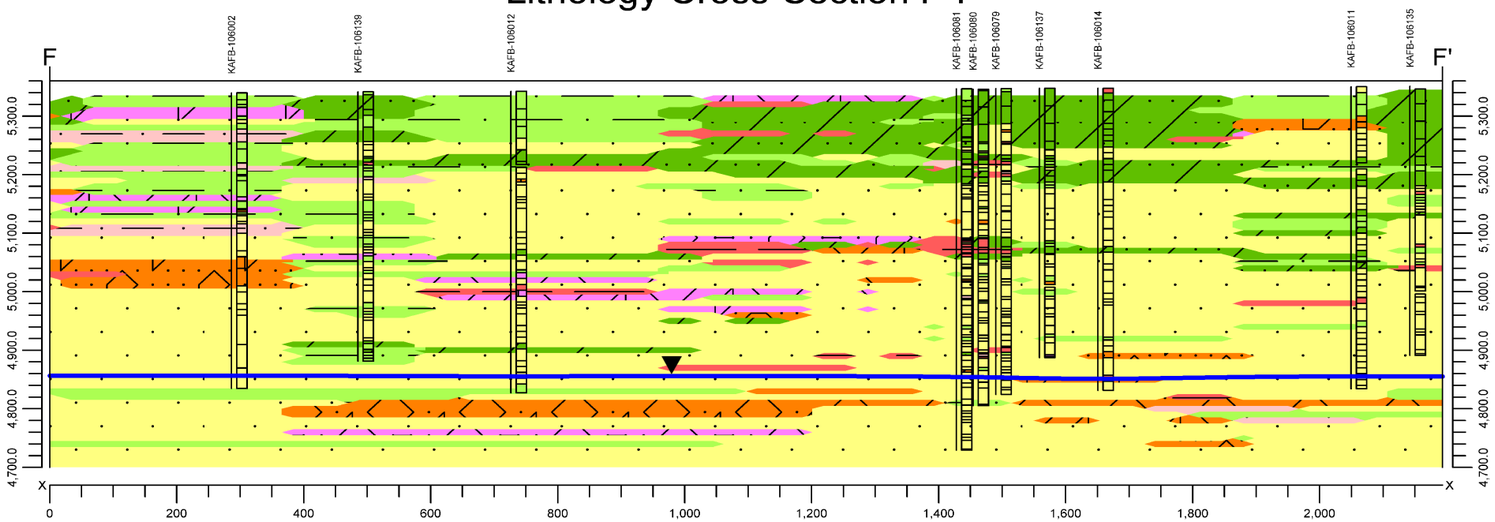
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-27

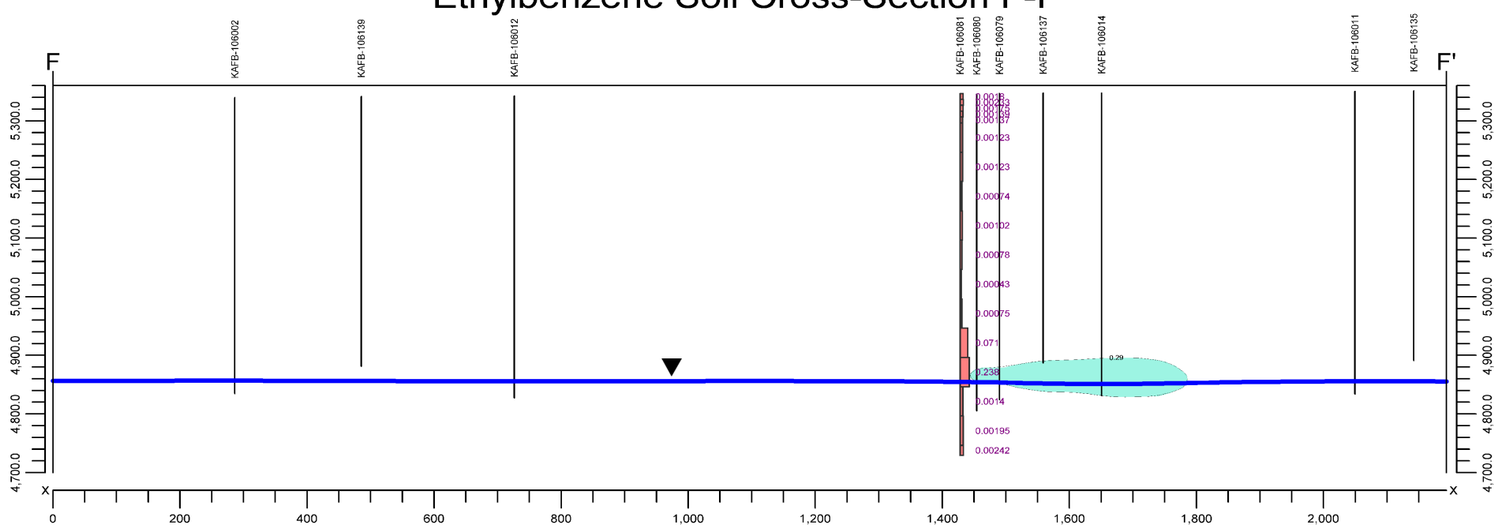
LITHOLOGY AND EDB SOIL
NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_031_EDB_SO_cross_section_KK.mxd 11/28/11

Lithology Cross-Section F-F'



Ethylbenzene Soil Cross-Section F-F'



Lithology Index

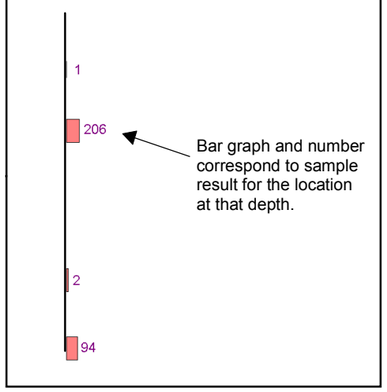
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Ethylbenzene Concentration (mg/kg)

- 0.29 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-6 for cross-section location map.

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BULK FUELS FACILITY
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APPENDIX J2-28

LITHOLOGY AND ETHYLBENZENE SOIL
EAST-WEST CROSS-SECTIONS F-F'

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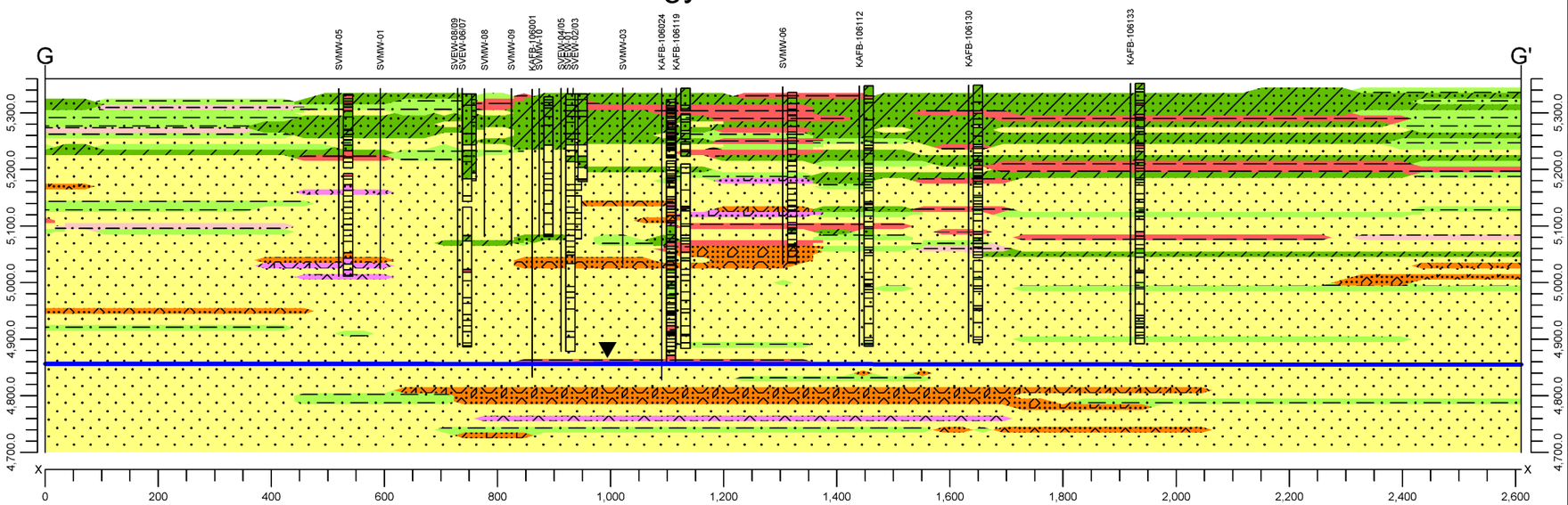
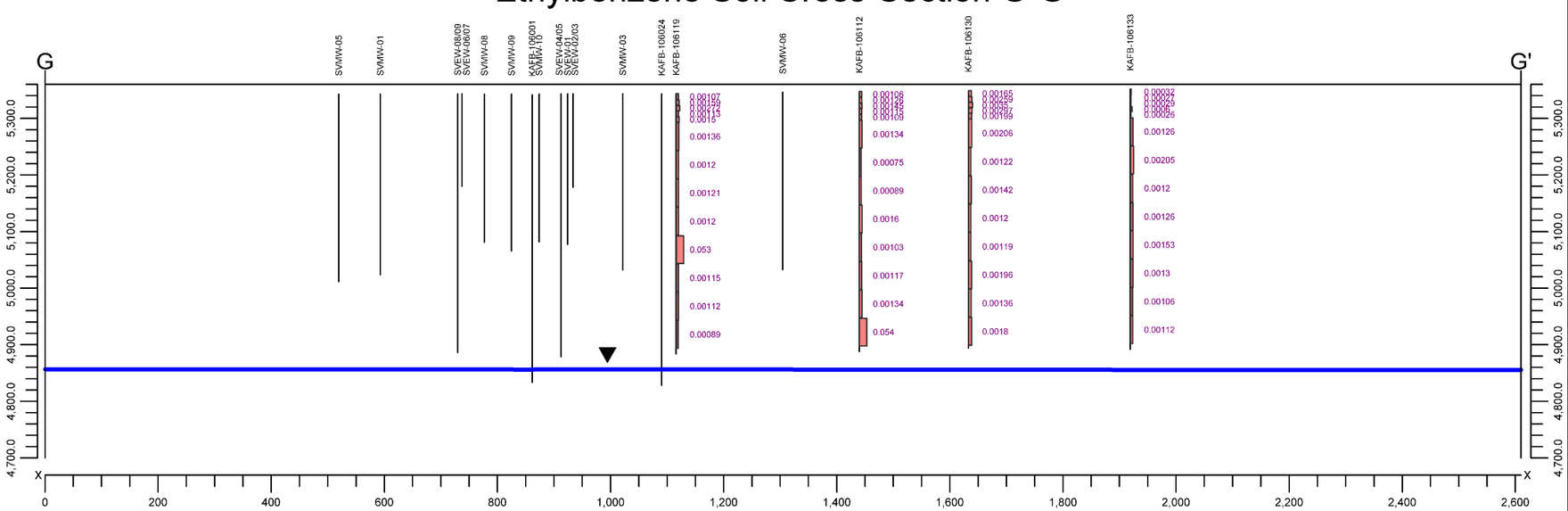
Lithology Cross-Section G-G'



Ethylbenzene Soil Cross-Section G-G'



Lithology Index

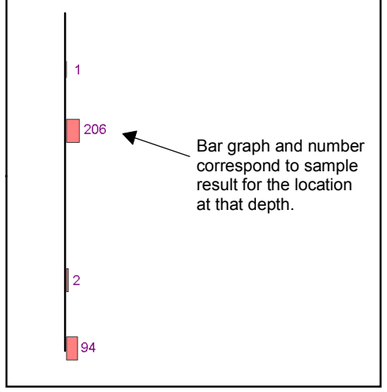
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Ethylbenzene Concentration (mg/kg)

- 0.29 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-6 for cross-section location map.

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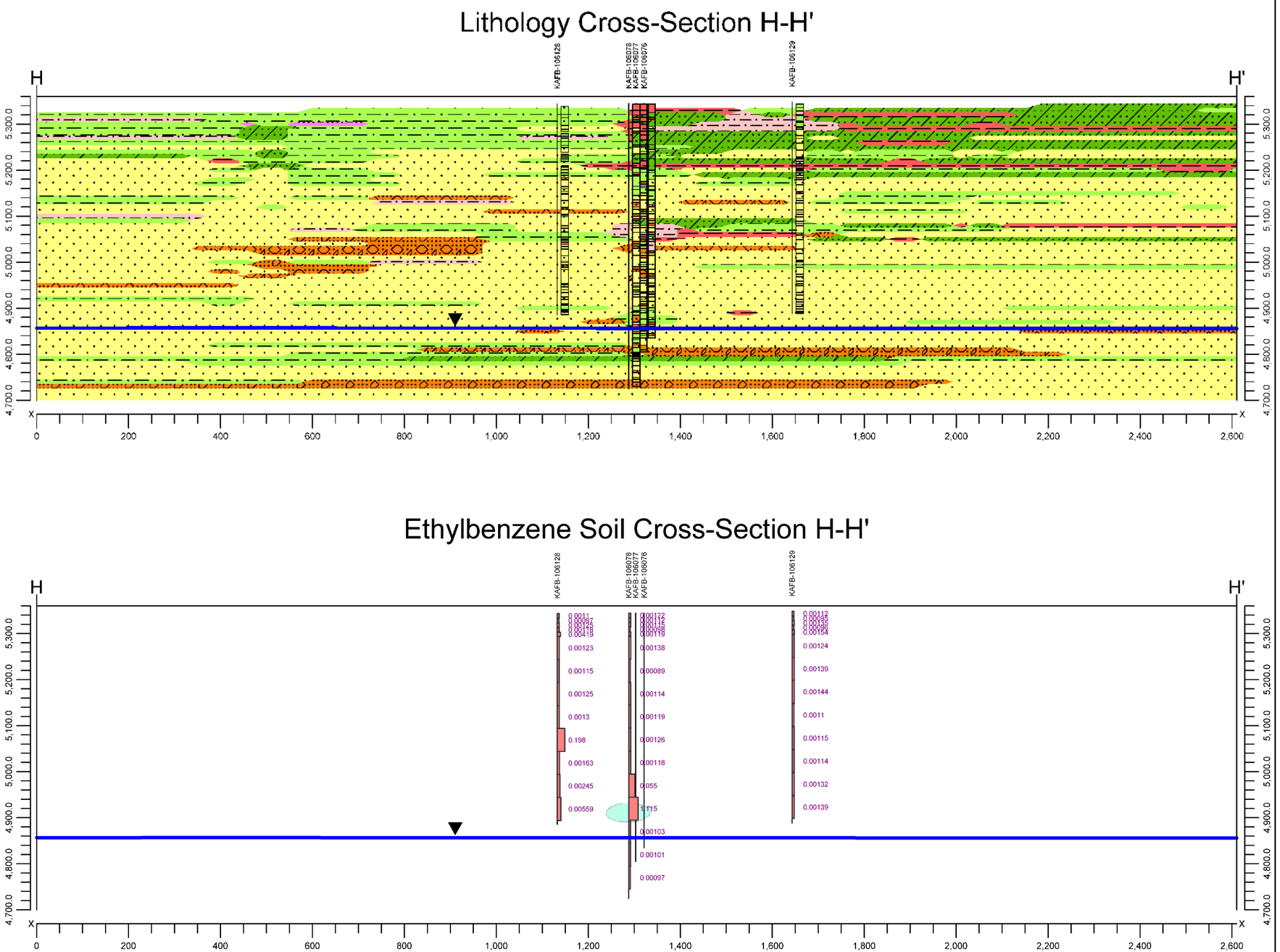
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-29

LITHOLOGY AND ETHYLBENZENE SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_033_Ethylbenzene_SO_cross_section_GG.mxd 11/22/11



Lithology Index

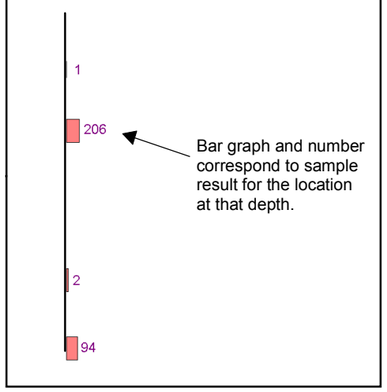
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Ethylbenzene Concentration (mg/kg)

- 0.29 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-6 for cross-section location map.

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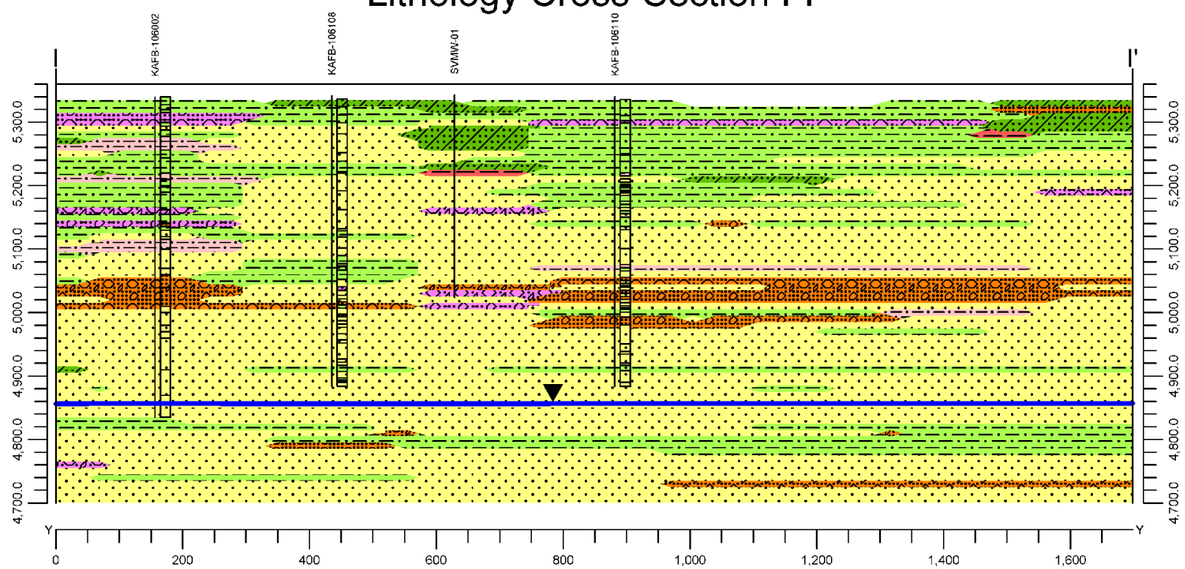
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-30

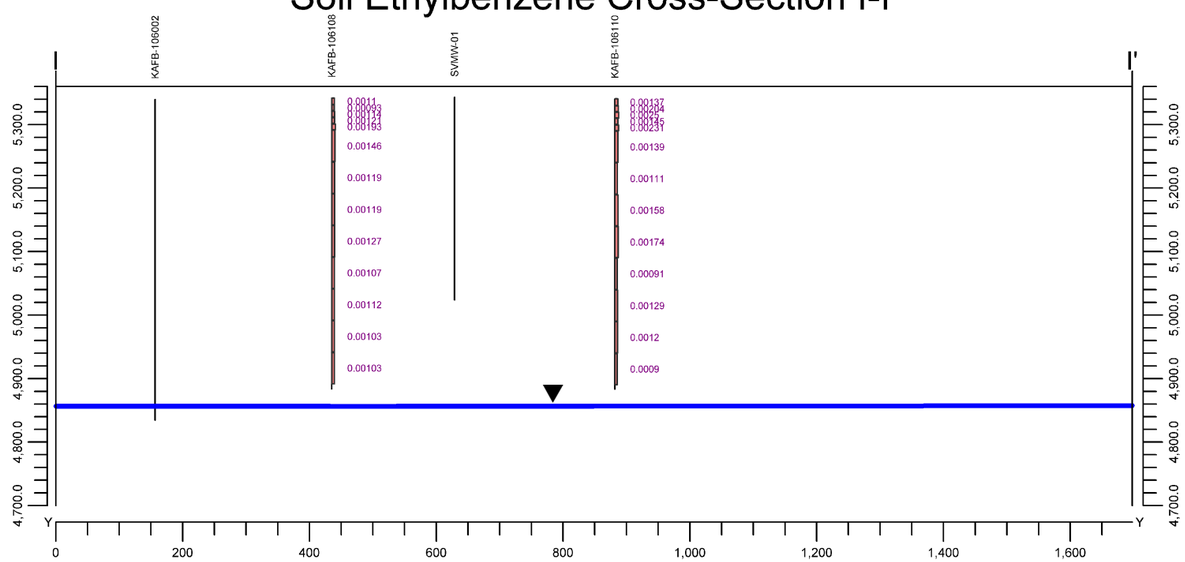
LITHOLOGY AND ETHYLBENZENE SOIL EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_034_Ethylbenzene_SO_cross_section_HH.mxd 11/22/11

Lithology Cross-Section I-I'



Soil Ethylbenzene Cross-Section I-I'



Lithology Index

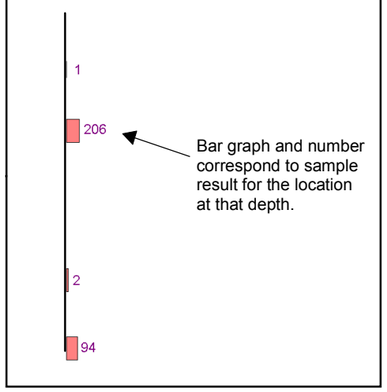
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Ethylbenzene Concentration (mg/kg)

- 0.29 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-6 for cross-section location map.

Revision Date: 11/22/11

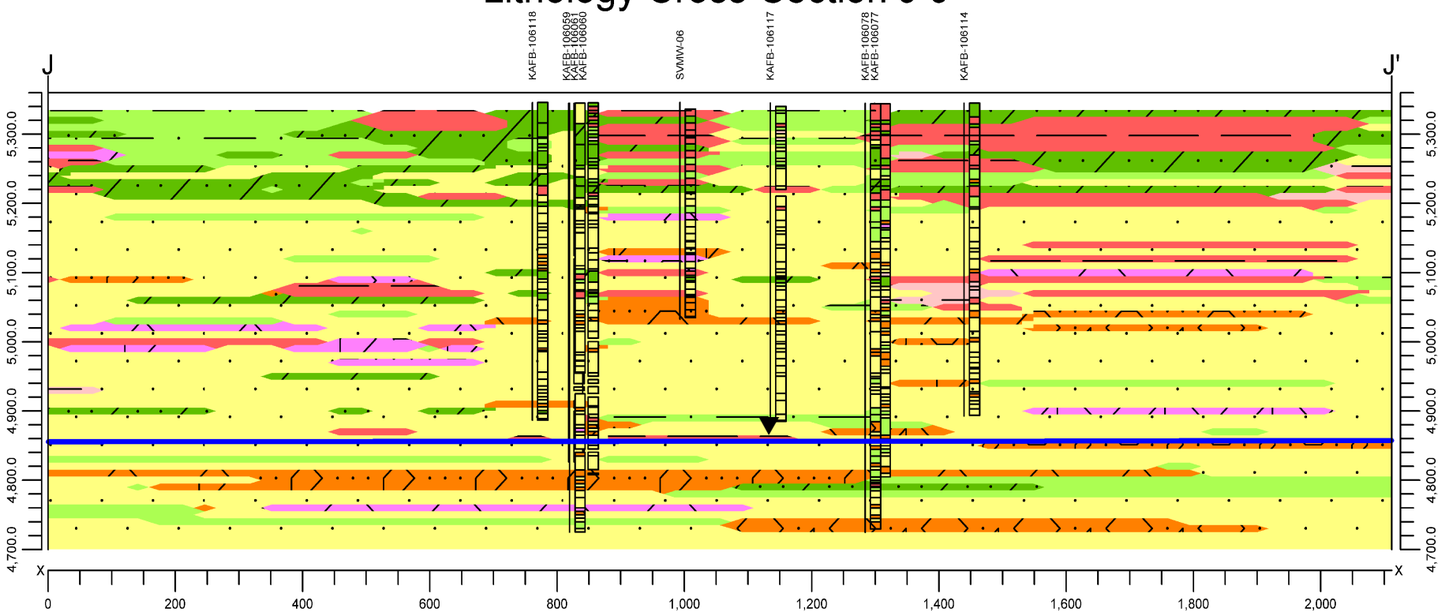
2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-31

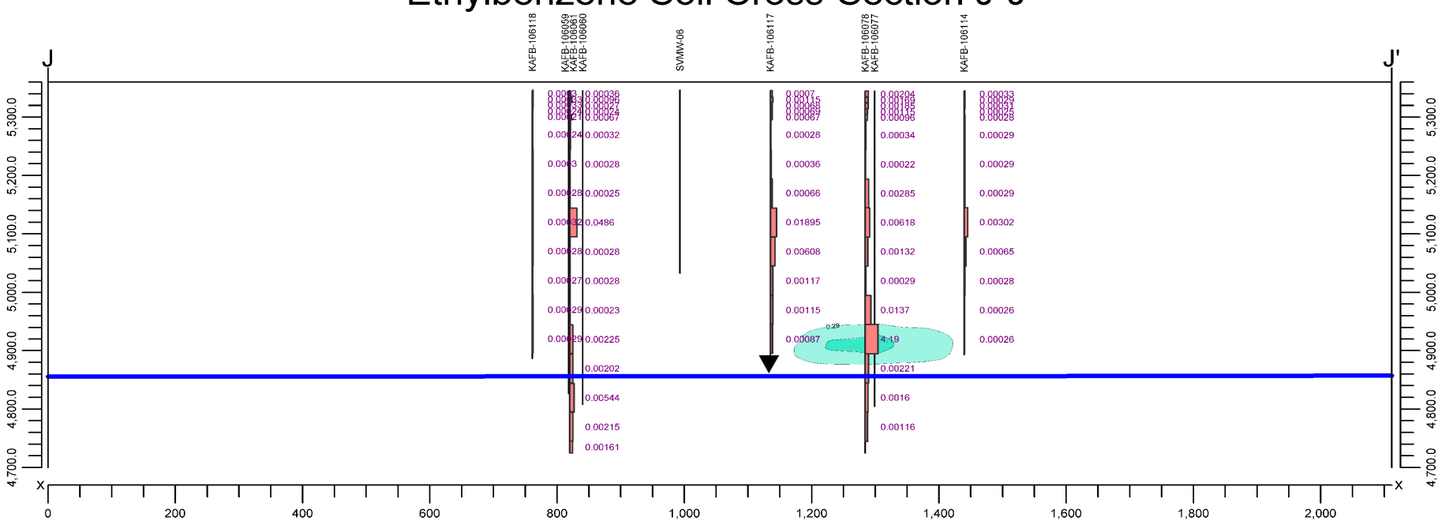
LITHOLOGY AND ETHYLBENZENE SOIL NORTH-SOUTH CROSS-SECTIONS I-I'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_035_Ethylbenzene_SO_cross_section_II.mxd 11/22/11

Lithology Cross-Section J-J'



Ethylbenzene Soil Cross-Section J-J'



Lithology Index

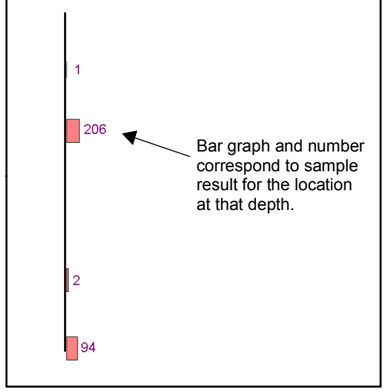
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Ethylbenzene Concentration (mg/kg)

- 0.29 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-6 for cross-section location map.

Revision Date: 11/22/11

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BULK FUELS FACILITY
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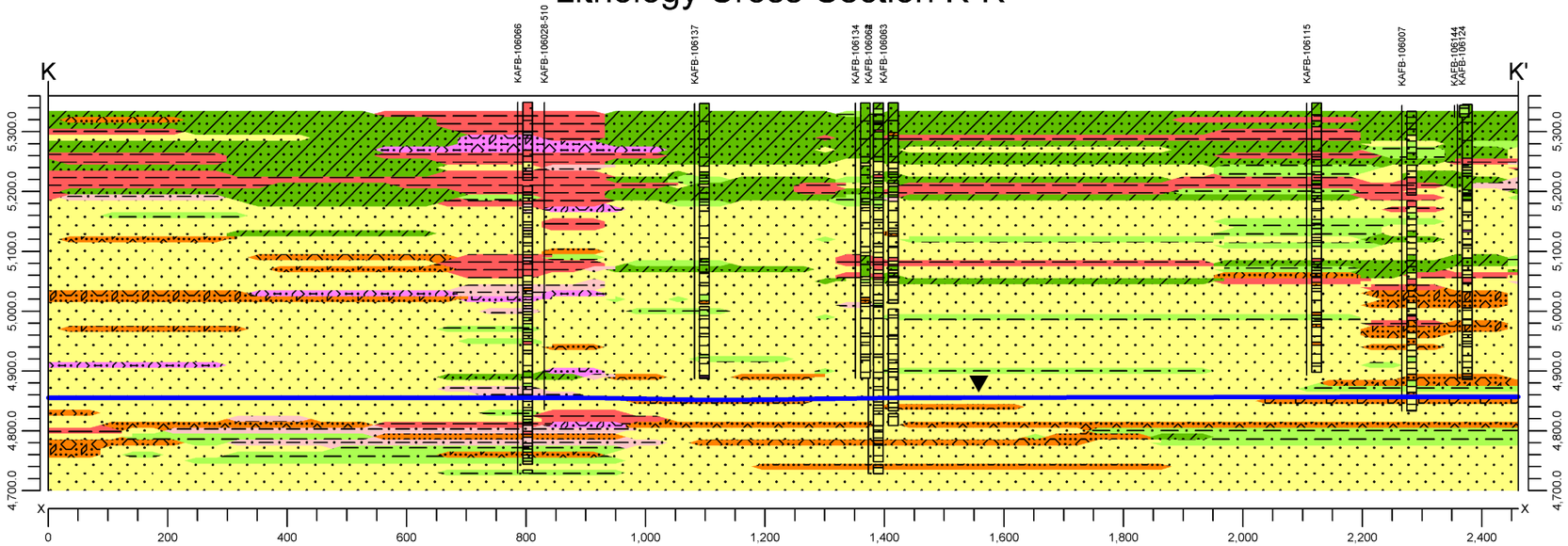
APPENDIX J2-32

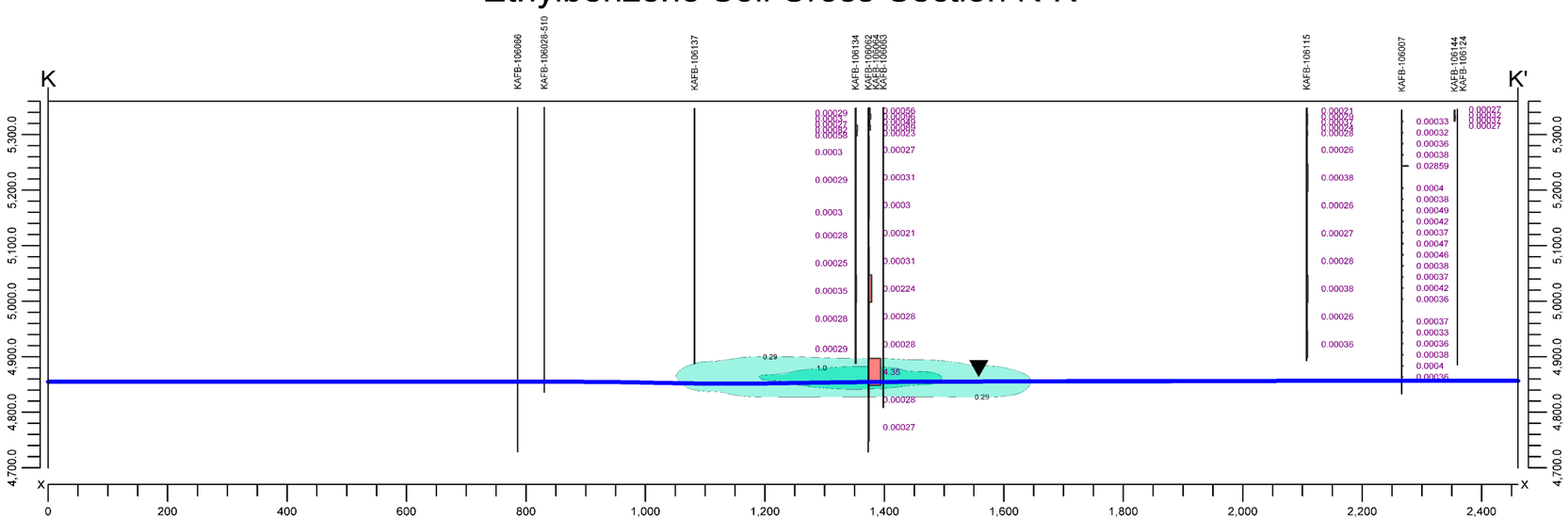
LITHOLOGY AND ETHYLBENZENE SOIL NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_036_Ethylbenzene_SO_cross_section_JJ.mxd 11/22/11

Lithology Cross-Section K-K'



Ethylbenzene Soil Cross-Section K-K'



Lithology Index

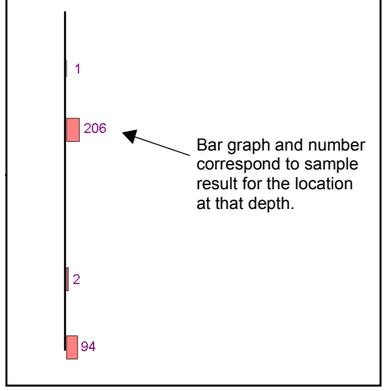
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Ethylbenzene Concentration (mg/kg)

- 0.29 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-6 for cross-section location map.

Revision Date: 11/28/11

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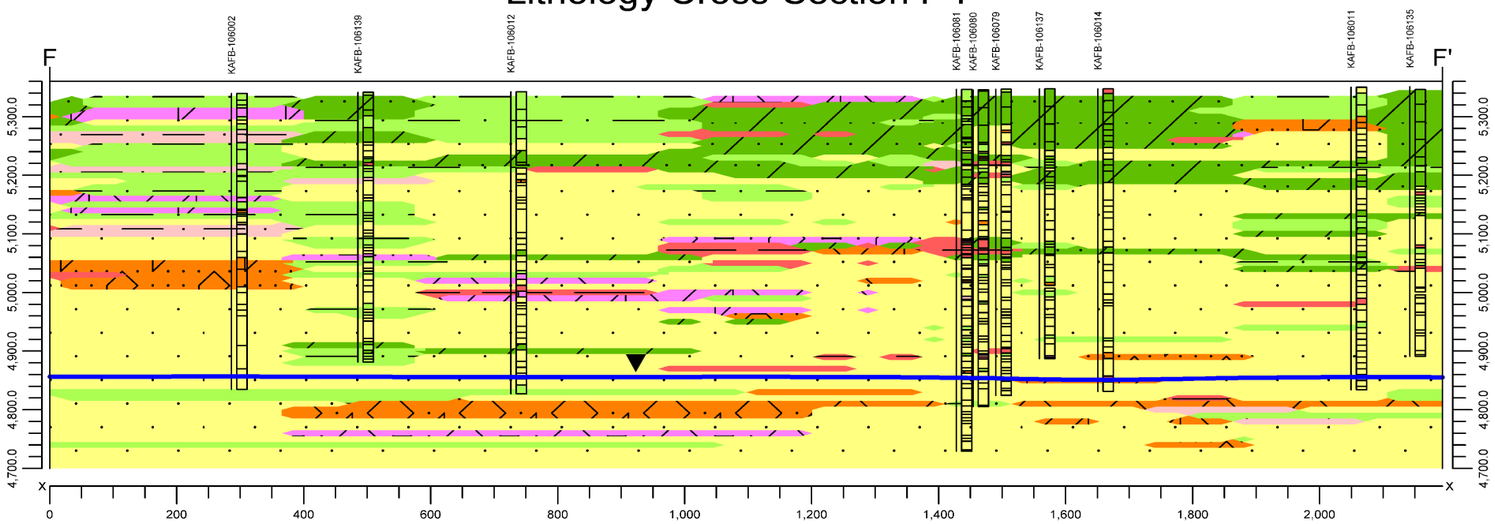
APPPENDIX J2-33

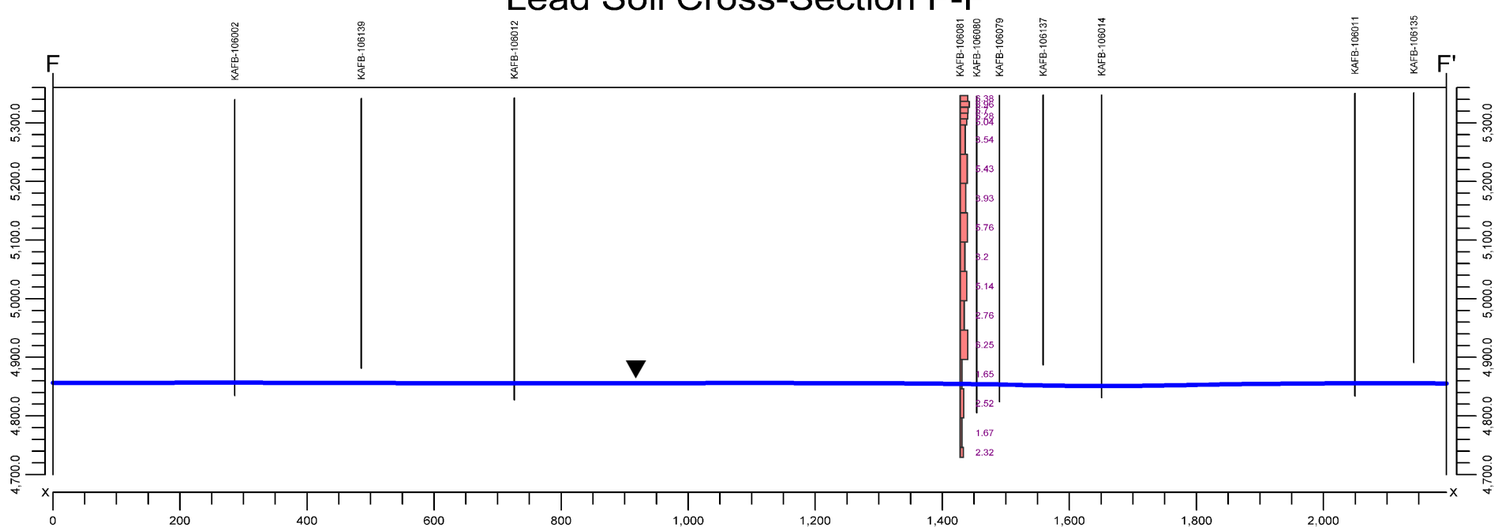
LITHOLOGY AND ETHYLBENZENE SOIL NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_037_Ethylbenzene_SO_cross_section_KK.mxd 11/28/11

Lithology Cross-Section F-F'



Lead Soil Cross-Section F-F'



Lithology Index

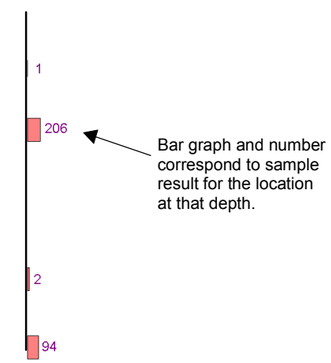
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Lead Concentration (mg/kg)

10.0 - 100

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-7 for cross-section location map.

Revision Date: 11/22/11

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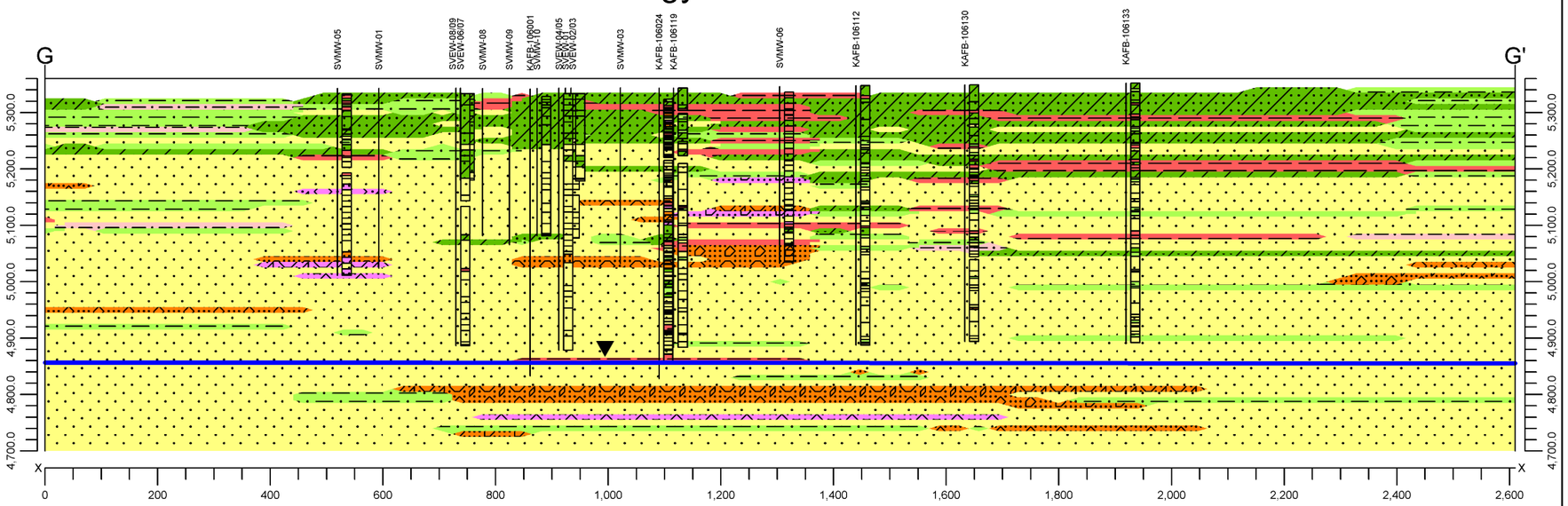
APPENDIX J2-34

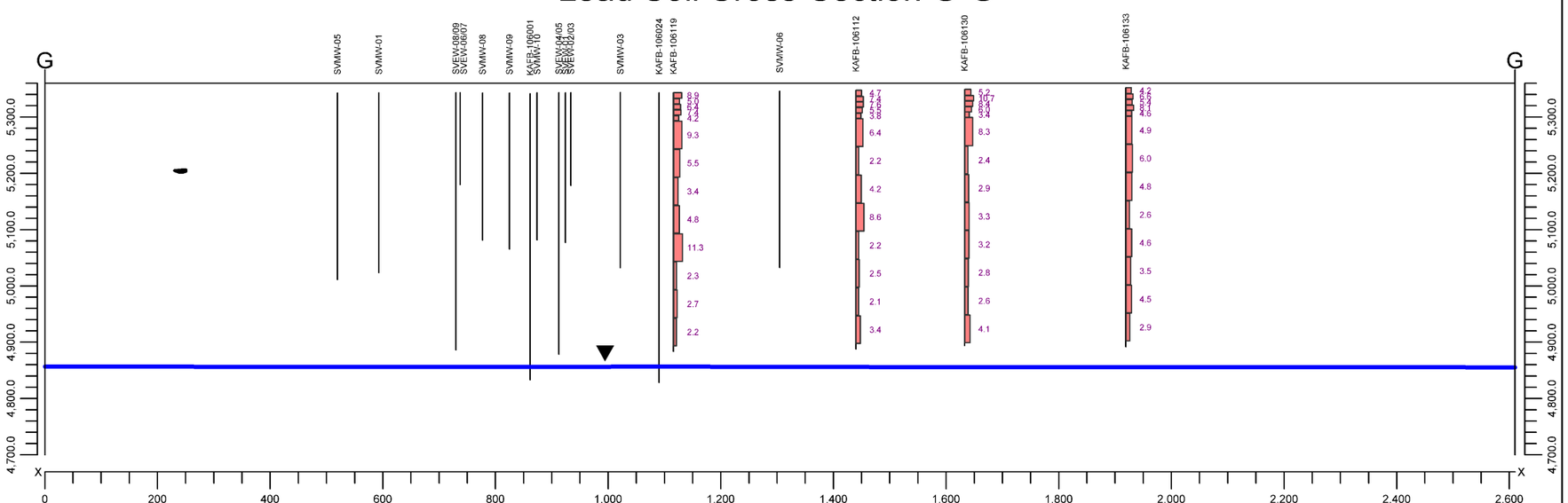
LITHOLOGY AND LEAD SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_053_lead_SO_cross_section_FF.mxd 11/22/11

Lithology Cross-Section G-G'



Lead Soil Cross-Section G-G'



Lithology Index

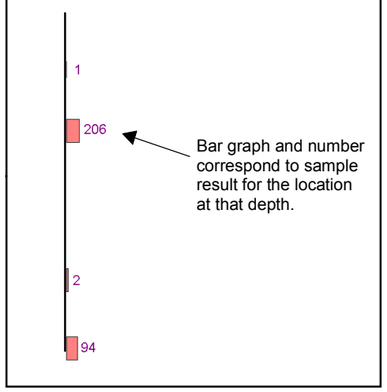
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Lead Concentration (mg/kg)

10.0 - 100

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-7 for cross-section location map.

Revision Date: 11/22/11

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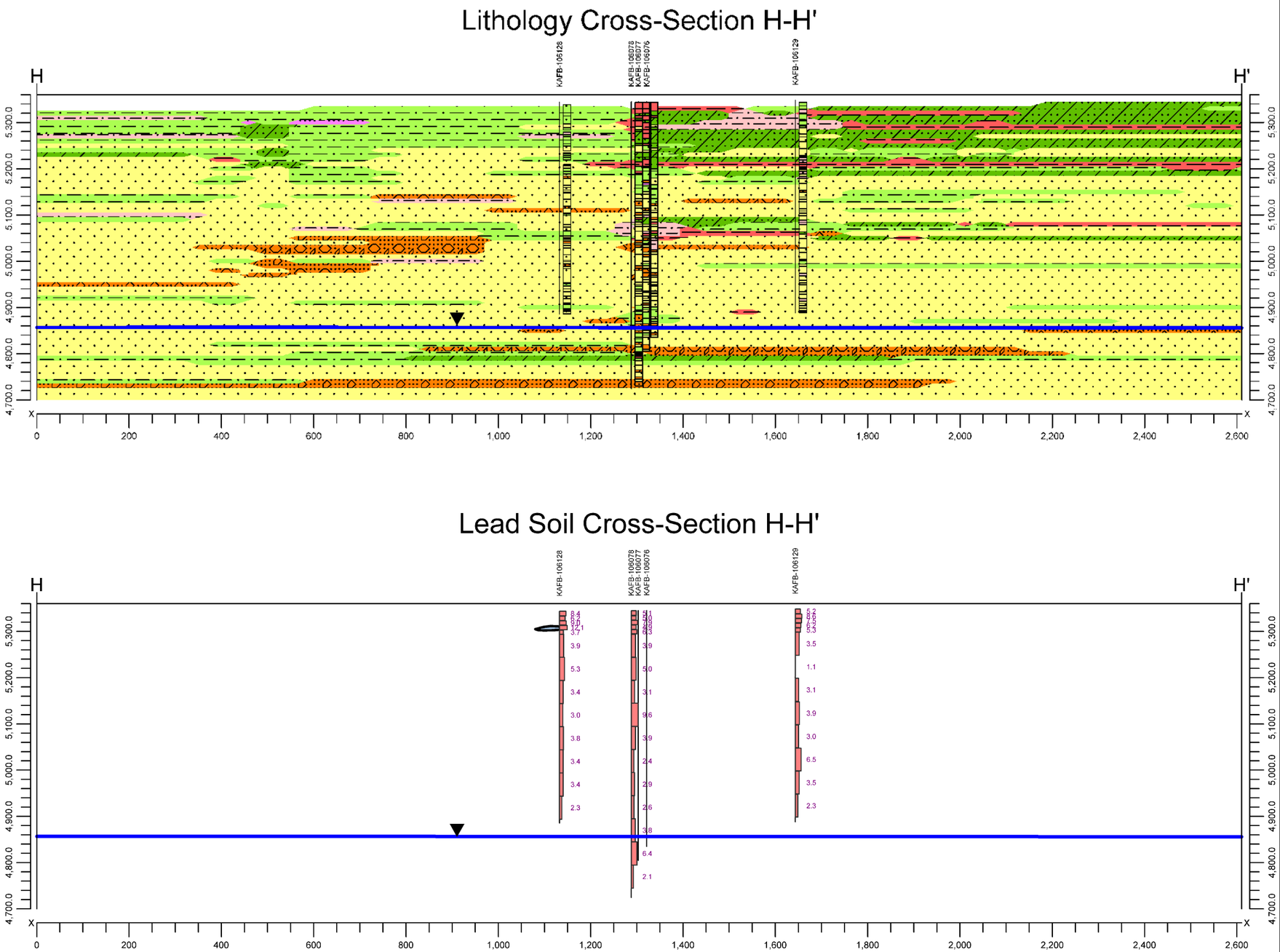
APPENDIX J2-35

LITHOLOGY AND LEAD SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_054_lead_SO_cross_section_GG.mxd 11/22/11



Lithology Index

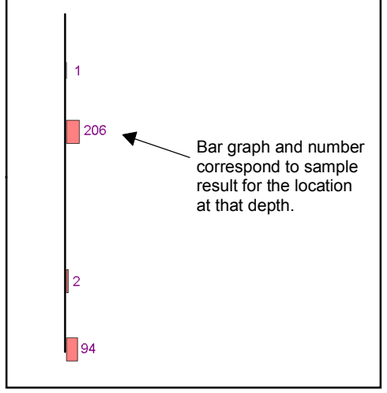
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Lead Concentration (mg/kg)

10.0 - 100

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-7 for cross-section location map.

Revision Date: 11/22/11

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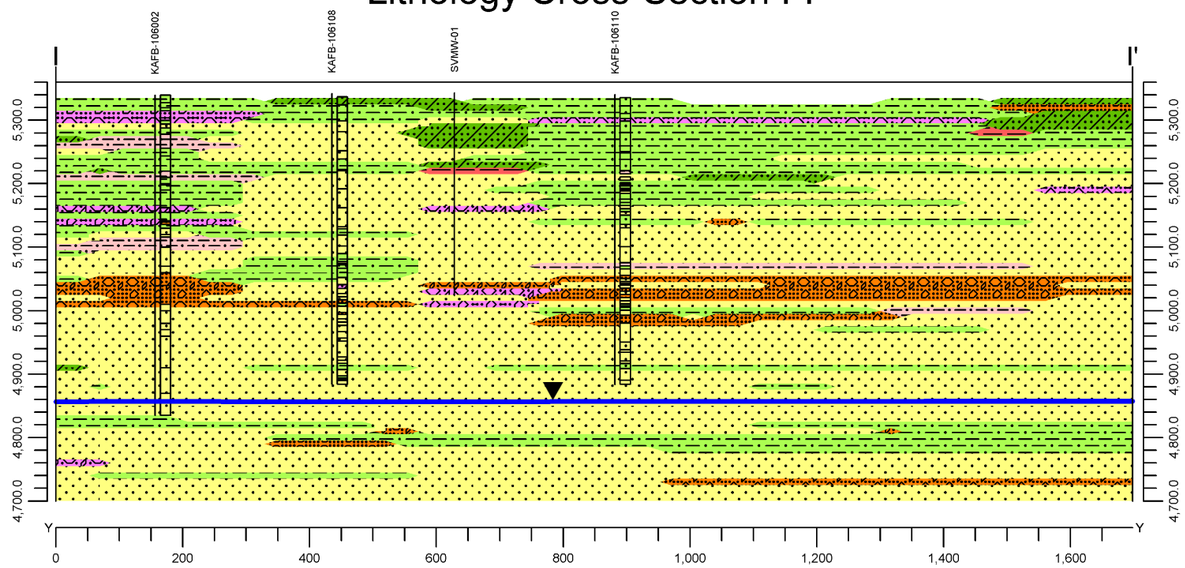
APPENDIX J2-36

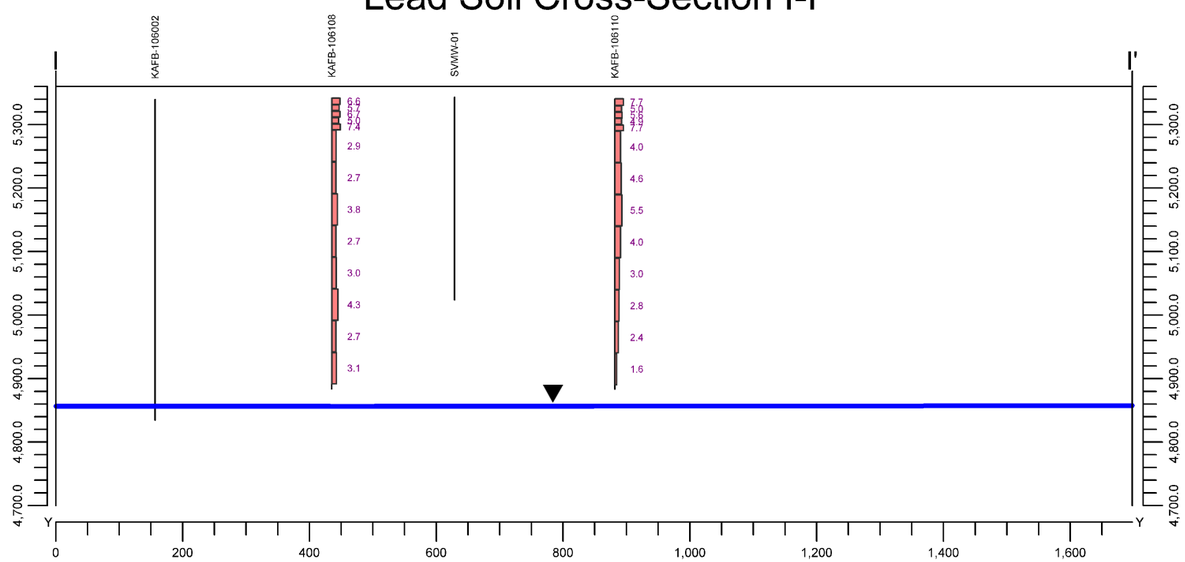
LITHOLOGY AND LEAD SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_055_lead_SO_cross_section_HH.mxd 11/22/11

Lithology Cross-Section I-I'



Lead Soil Cross-Section I-I'



Lithology Index

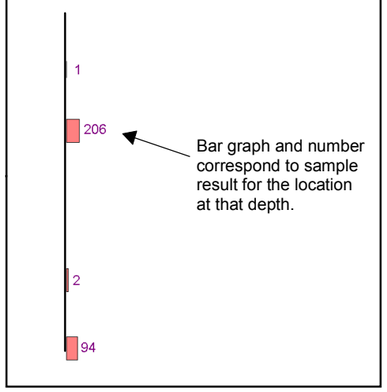
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Lead Concentration (mg/kg)

10.0 - 100

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-7 for cross-section location map.

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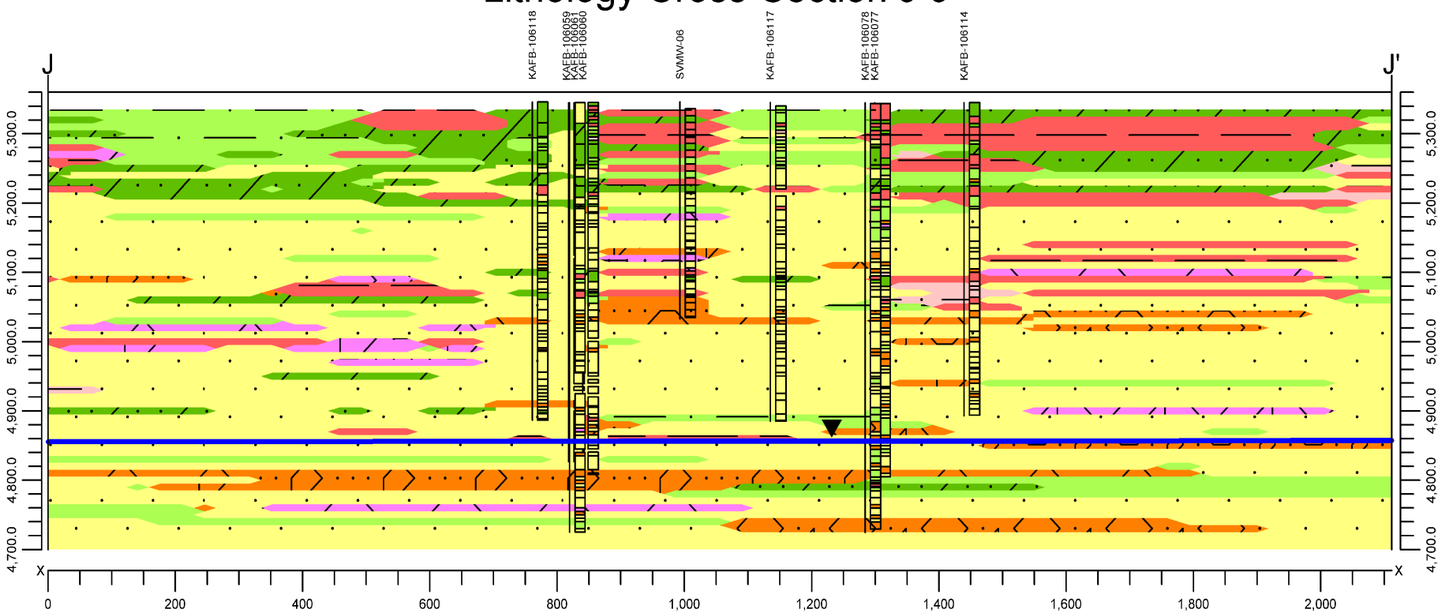
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-37

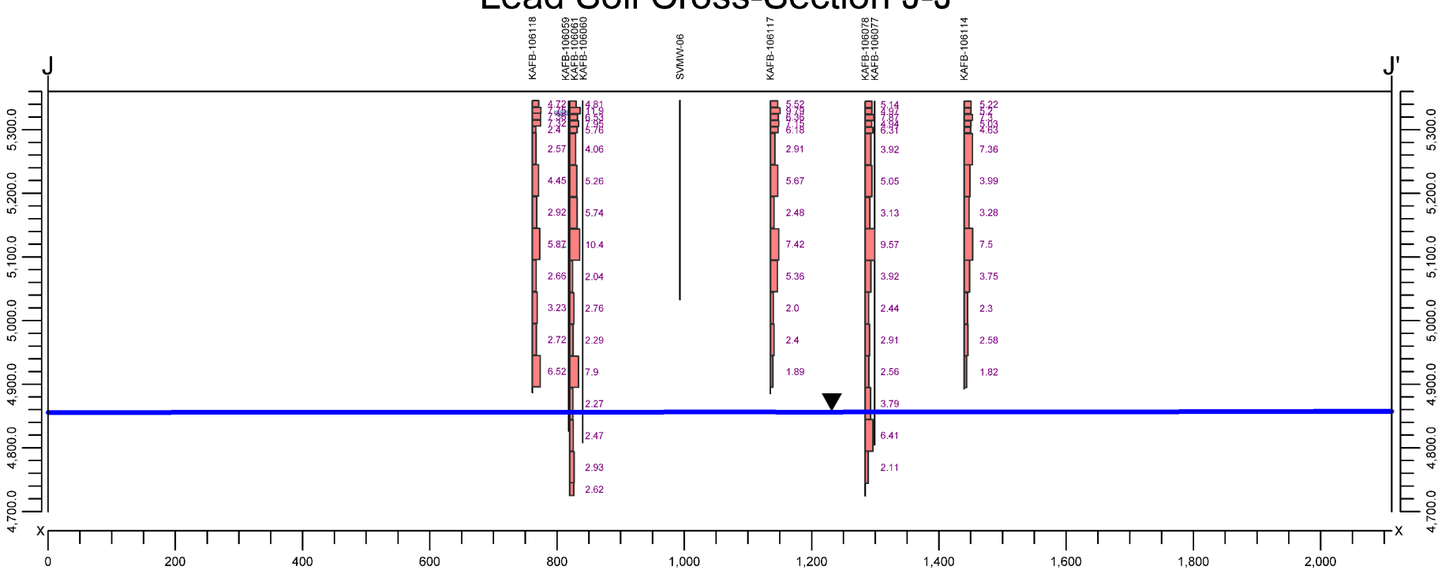
LITHOLOGY AND LEAD SOIL
NORTH-SOUTH CROSS-SECTIONS I-I'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_056_lead_SO_cross_section_II.mxd 11/22/11

Lithology Cross-Section J-J'



Lead Soil Cross-Section J-J'



Lithology Index

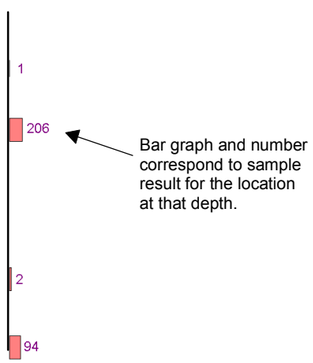
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Lead Concentration (mg/kg)

10.0 - 100

Water Table

Borehole Detail



Bar graph and number correspond to sample result for the location at that depth.

Note: No vertical exaggeration.
See Figure 4-7 for cross-section location map.

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BULK FUELS FACILITY
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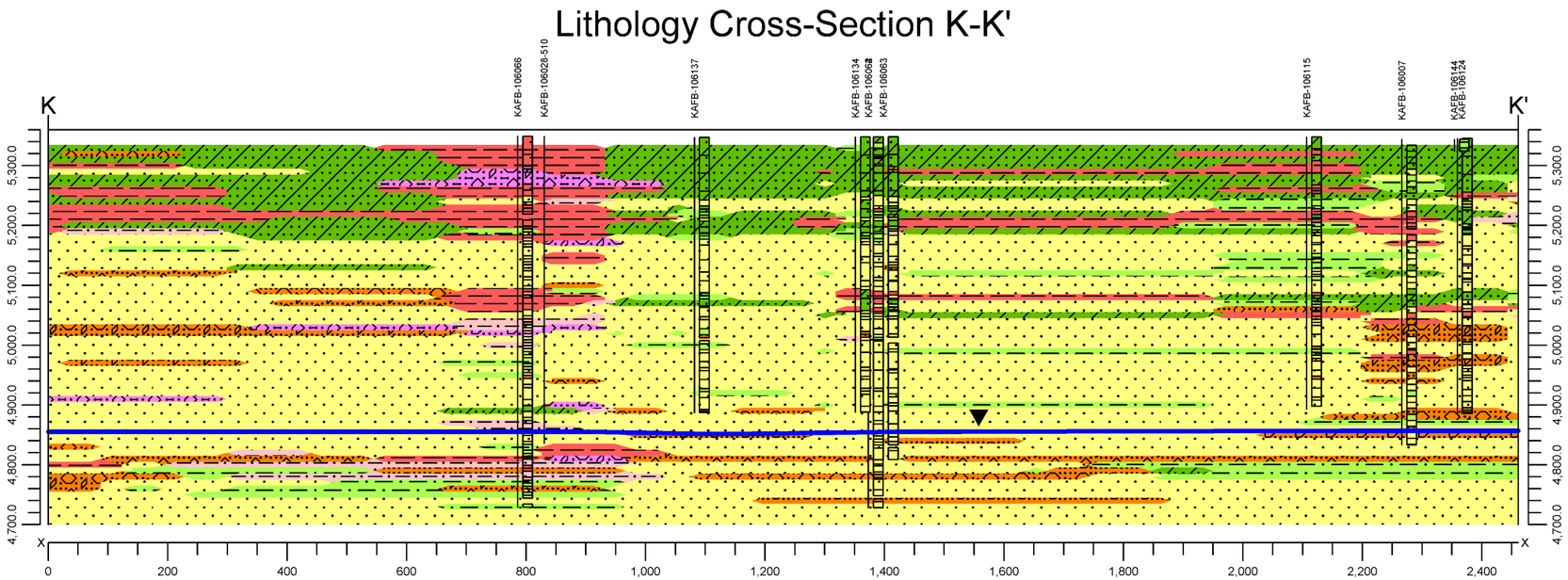
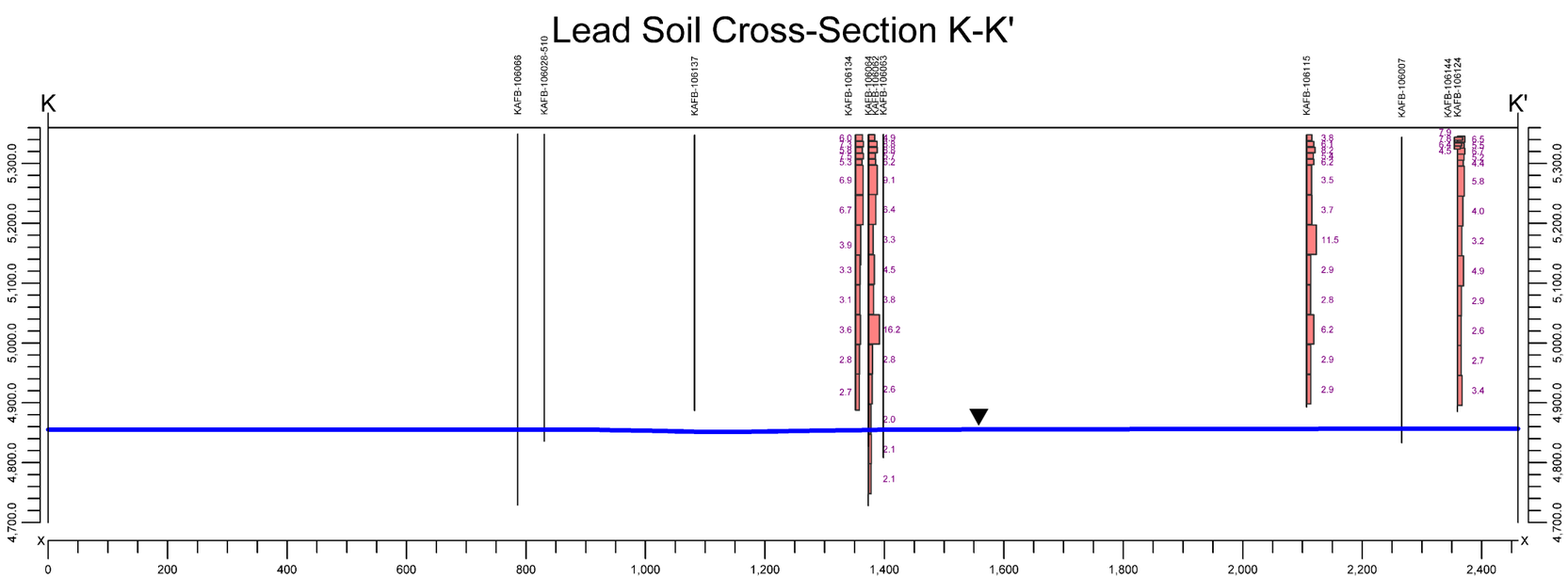
APPPENDIX J2-38

LITHOLOGY AND LEAD SOIL
NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_057_lead_SO_cross_section_JJ.mxd 11/22/11





Lithology Index

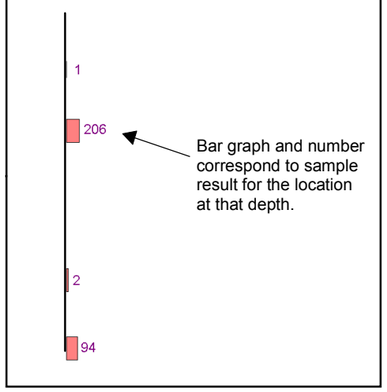
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Lead Concentration (mg/kg)

10.0 - 100

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-7 for cross-section location map.

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BULK FUELS FACILITY
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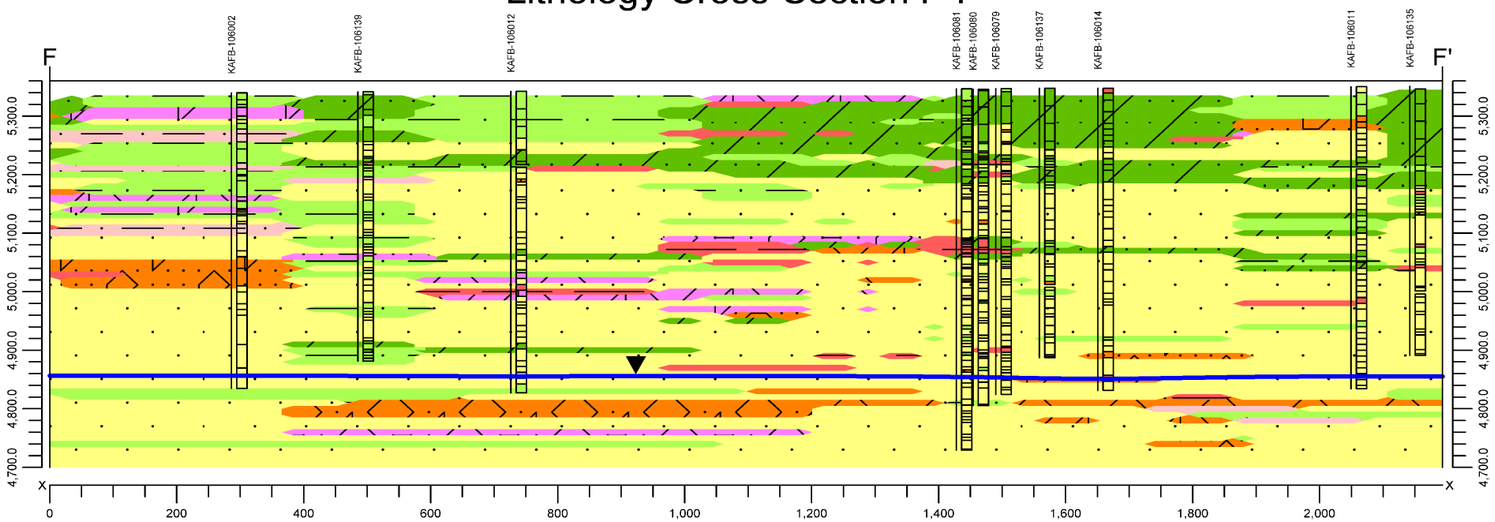
APPENDIX J2-39

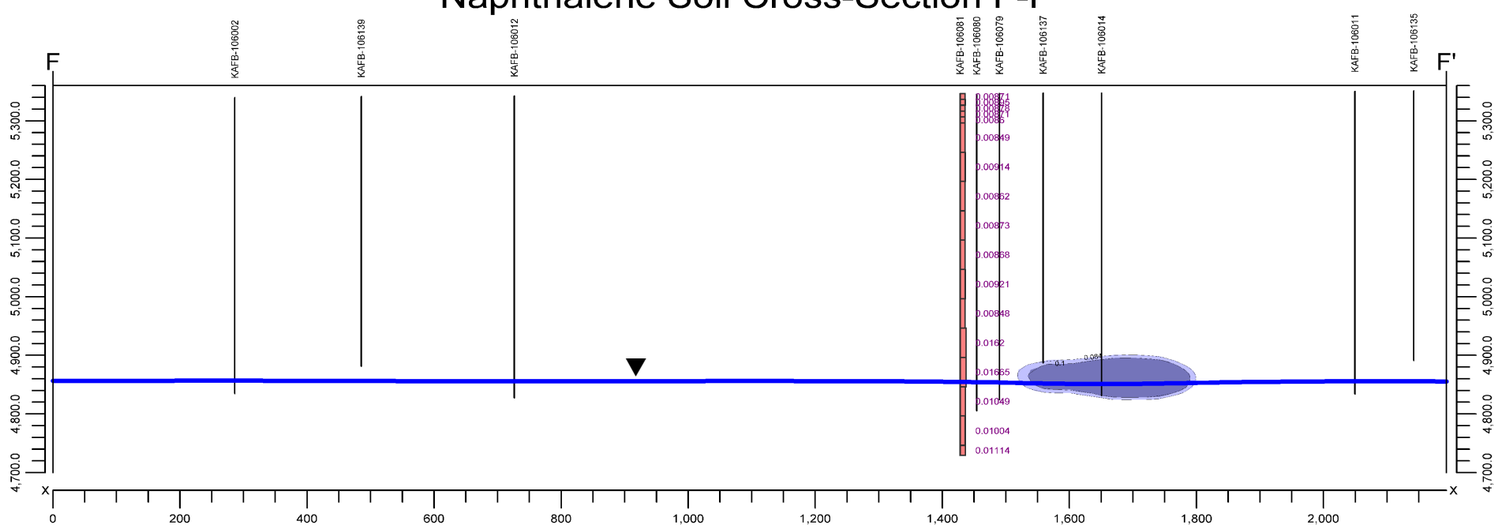
LITHOLOGY AND LEAD SOIL
NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_058_lead_SO_cross_section_KK.mxd 11/22/11

Lithology Cross-Section F-F'



Naphthalene Soil Cross-Section F-F'



Lithology Index

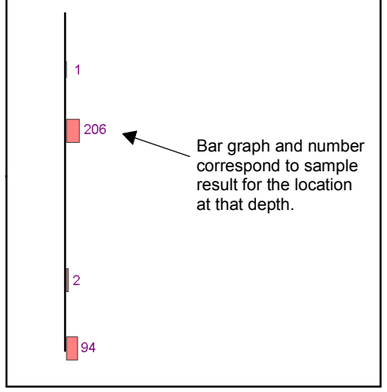
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Naphthalene Concentration (mg/kg)

- 0.084 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-8 for cross-section location map.

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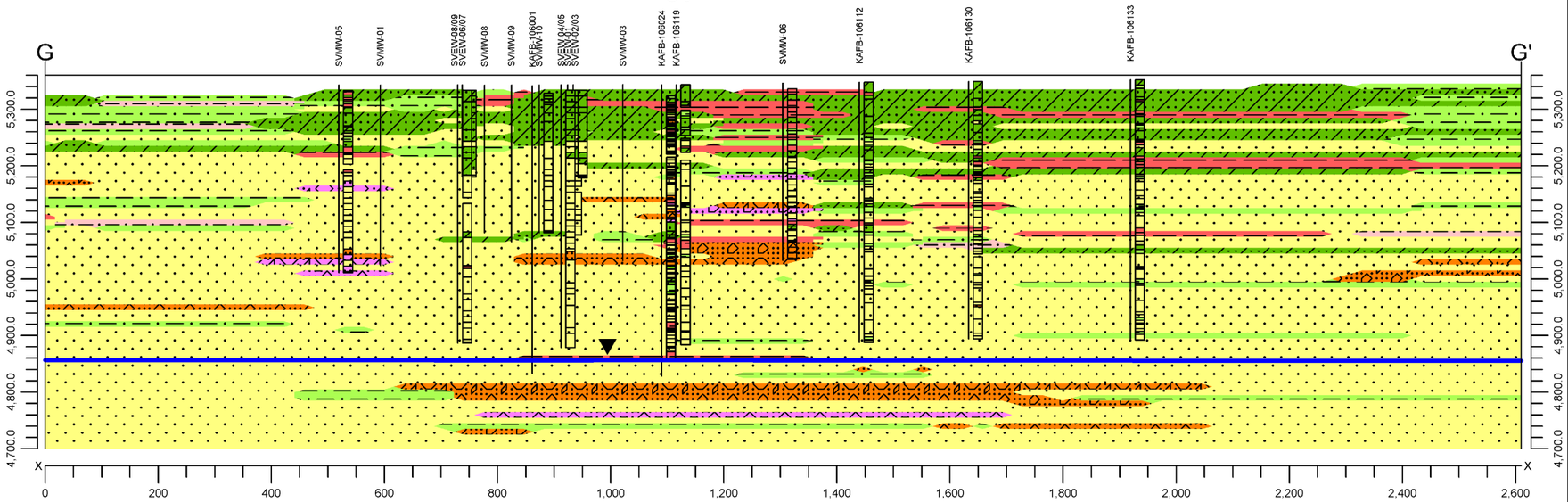
APPENDIX J2-40

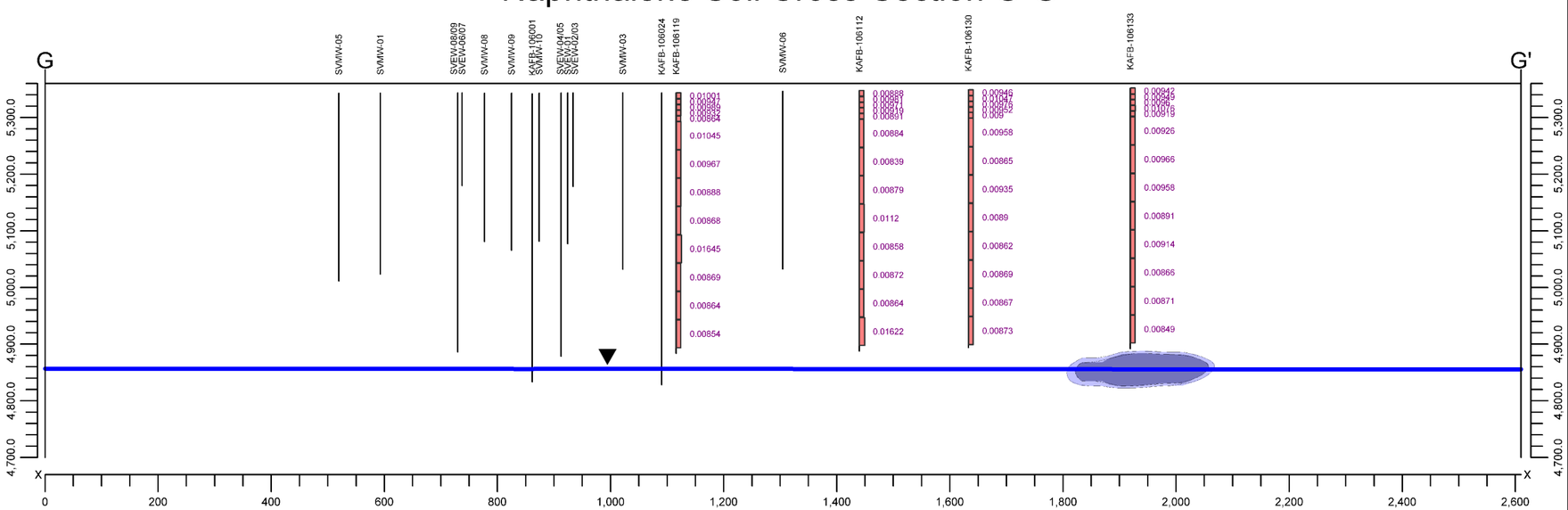
LITHOLOGY AND NAPHTHALENE SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_091_Naphth_SO_cross_section_FF.mxd 11/22/11

Lithology Cross-Section G-G'



Naphthalene Soil Cross-Section G-G'



Lithology Index

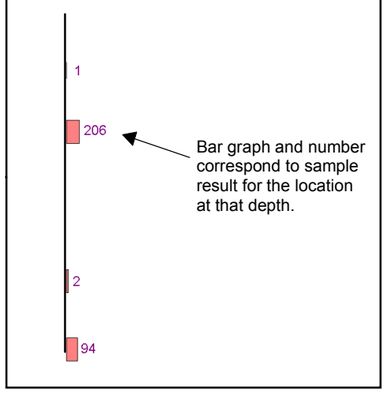
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Naphthalene Concentration (mg/kg)

- 0.084 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-8 for cross-section location map.

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BULK FUELS FACILITY
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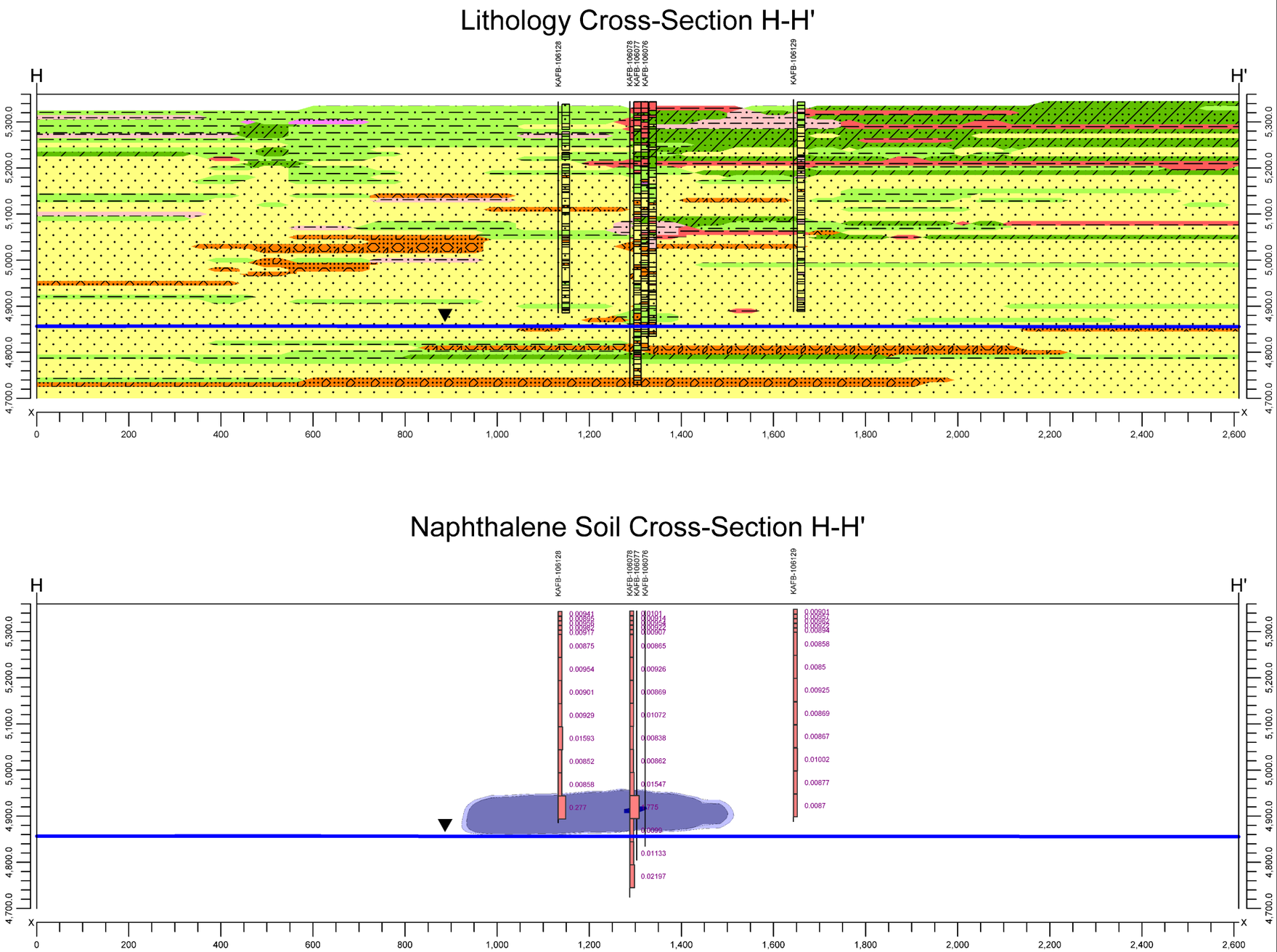
APPENDIX J2-41

LITHOLOGY AND NAPHTHALENE SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_092_Naphth_SO_cross_section_GG.mxd 11/28/11



Lithology Index

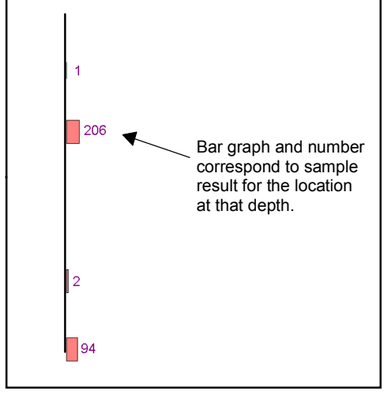
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Naphthalene Concentration (mg/kg)

- 0.084 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-8 for cross-section location map.

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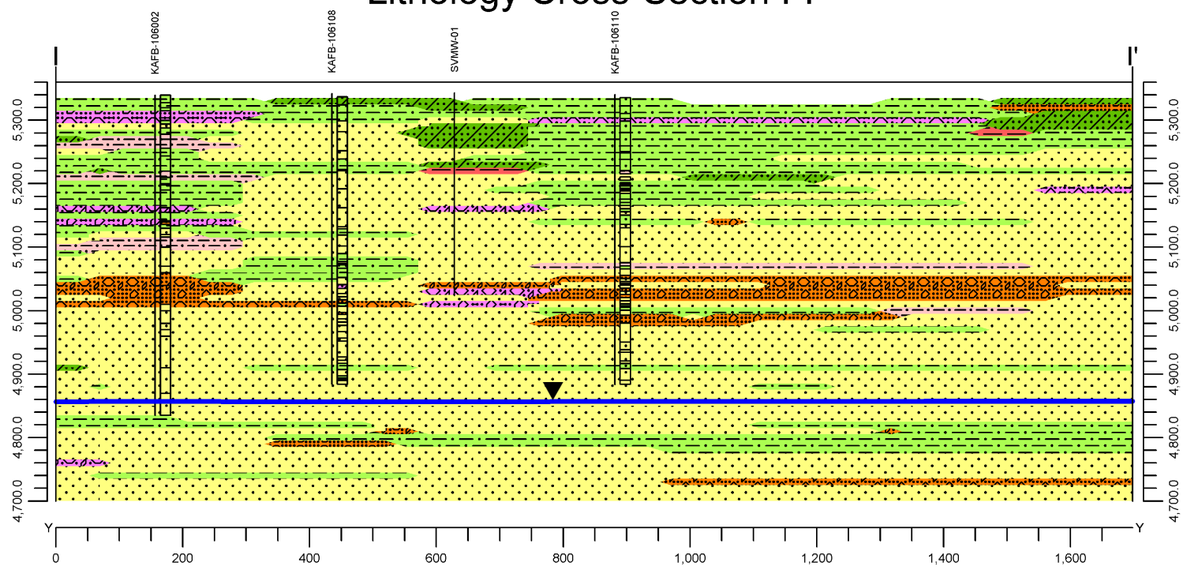
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-42

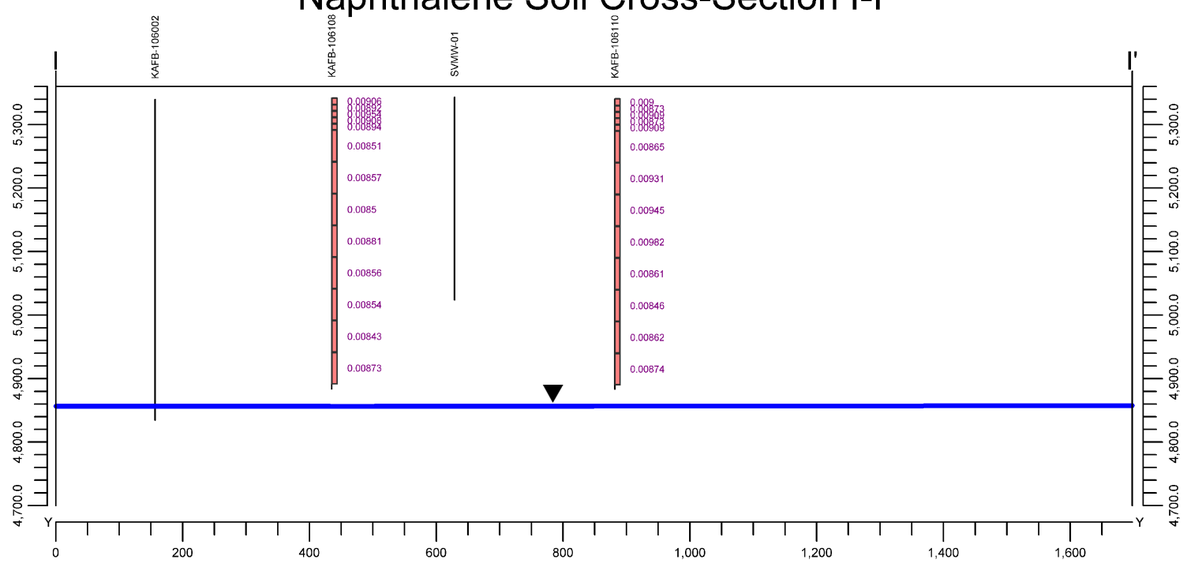
LITHOLOGY AND NAPHTHALENE SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_093_Naphth_SO_cross_section_HH.mxd 11/22/11

Lithology Cross-Section I-I'



Naphthalene Soil Cross-Section I-I'



Lithology Index

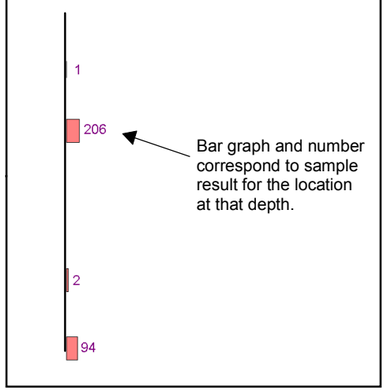
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Naphthalene Concentration (mg/kg)

- 0.084 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-8 for cross-section location map.

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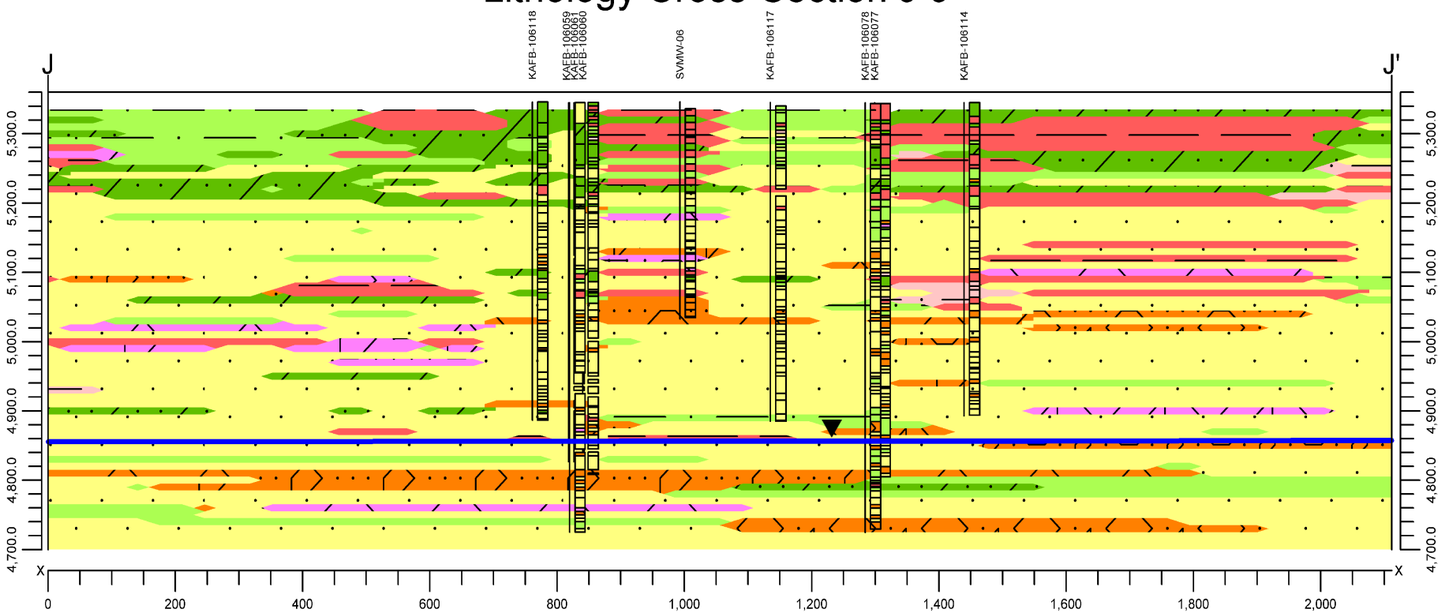
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-43

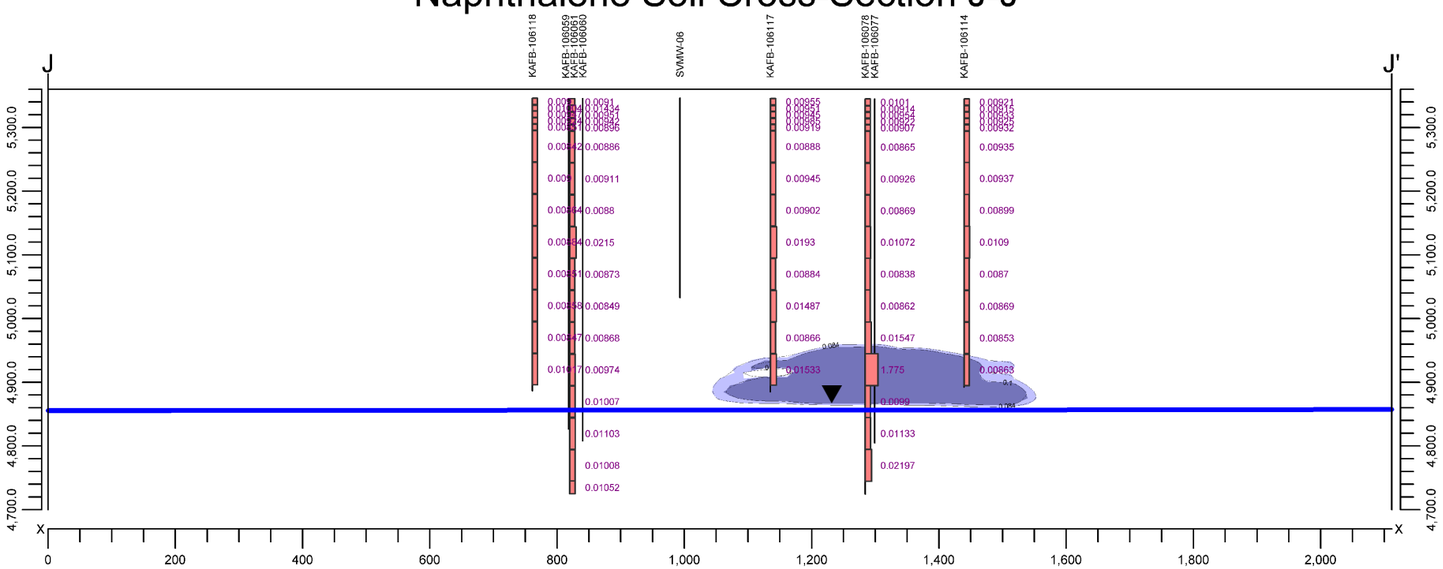
LITHOLOGY AND NAPHTHALENE SOIL
NORTH-SOUTH CROSS-SECTIONS I-I'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_094_Naphth_SO_cross_section_II.mxd 11/22/11

Lithology Cross-Section J-J'



Naphthalene Soil Cross-Section J-J'



Lithology Index

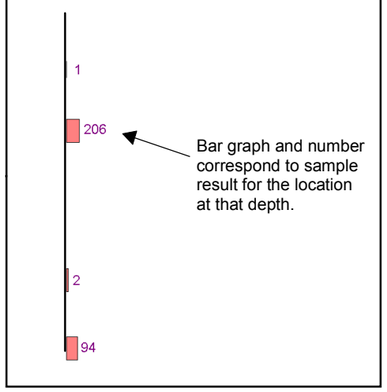
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Naphthalene Concentration (mg/kg)

- 0.084 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-8 for cross-section location map.

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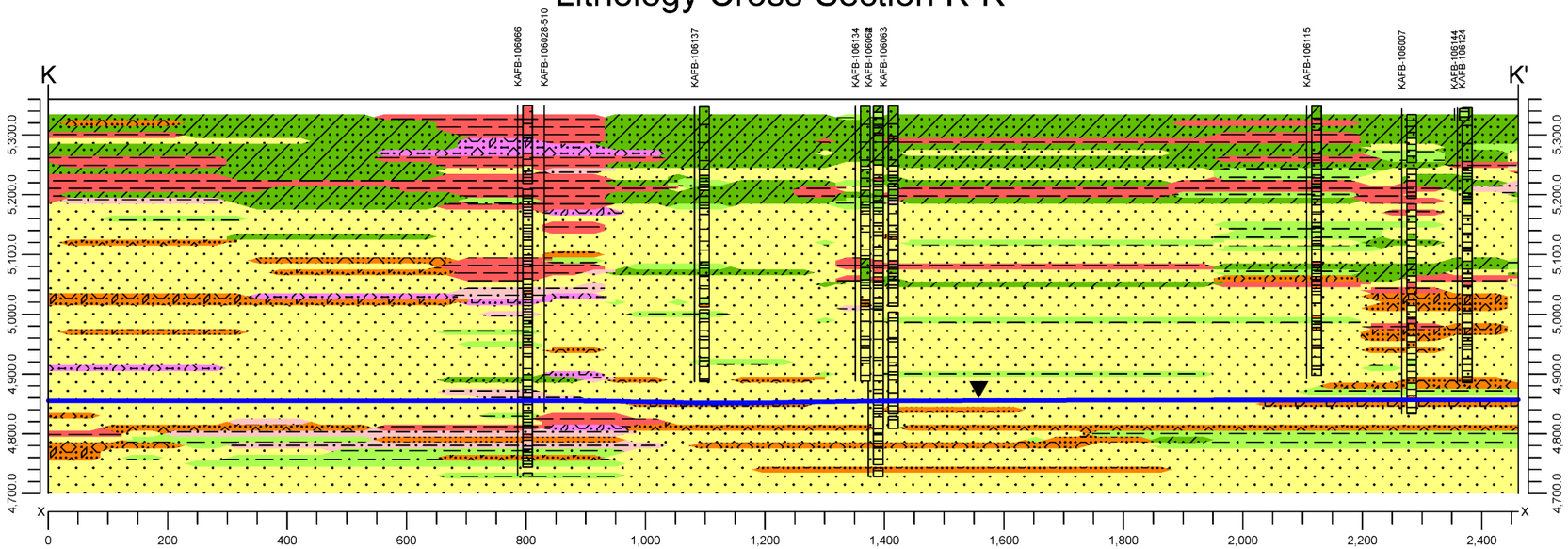
APPENDIX J2-44

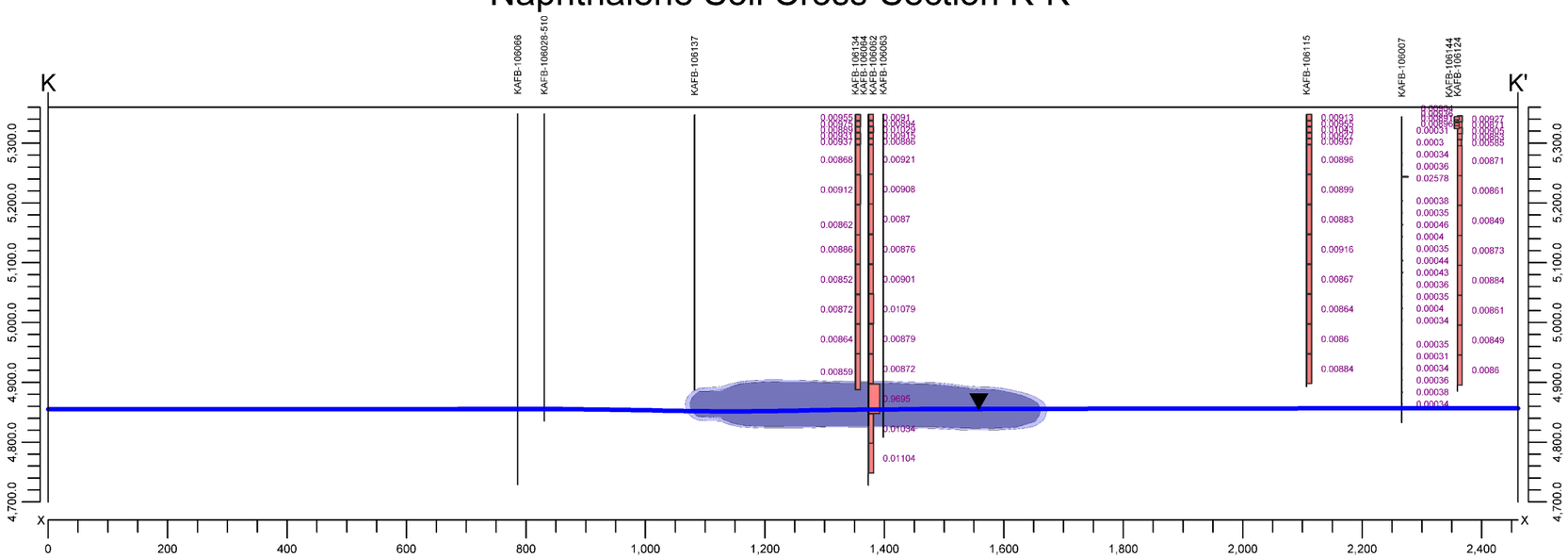
LITHOLOGY AND NAPHTHALENE SOIL NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_095_Naphth_SO_cross_section_JJ.mxd 11/22/11

Lithology Cross-Section K-K'



Naphthalene Soil Cross-Section K-K'



Lithology Index

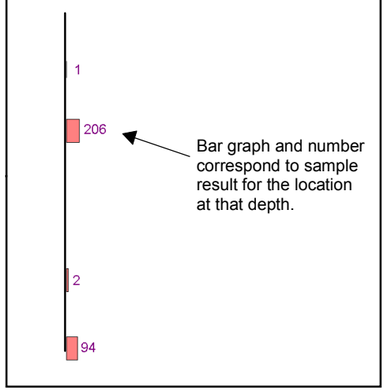
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Naphthalene Concentration (mg/kg)

- 0.084 - 0.1
- 0.1 - 1.0
- 1.0 - 10.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-8 for cross-section location map.

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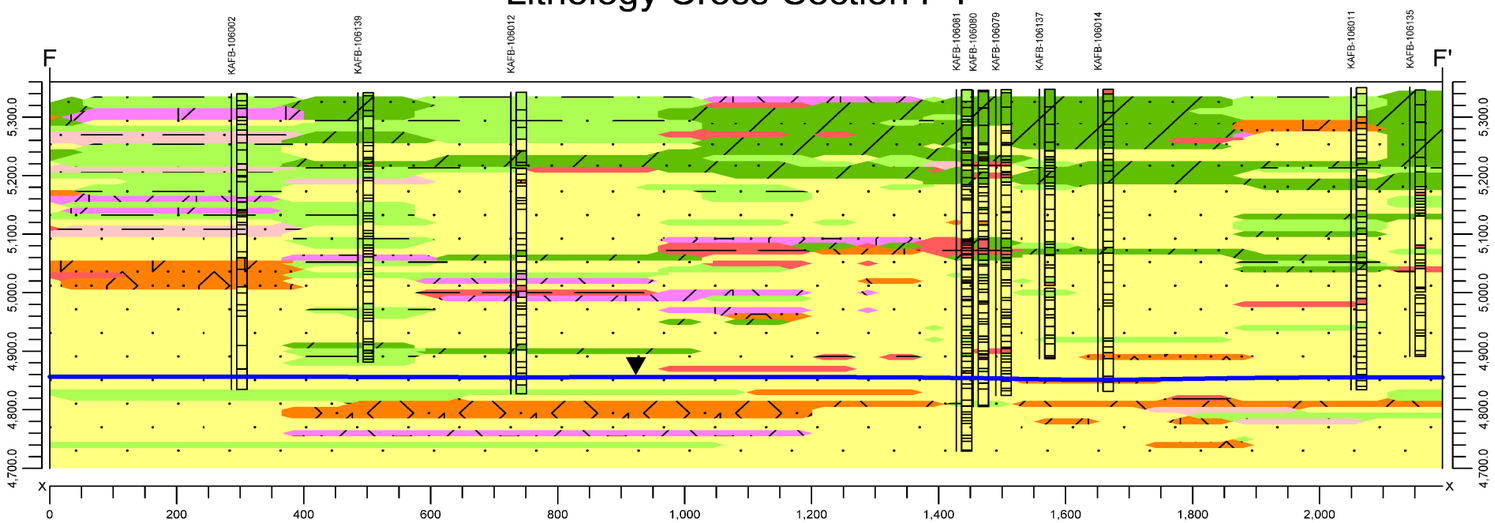
APPENDIX J2-45

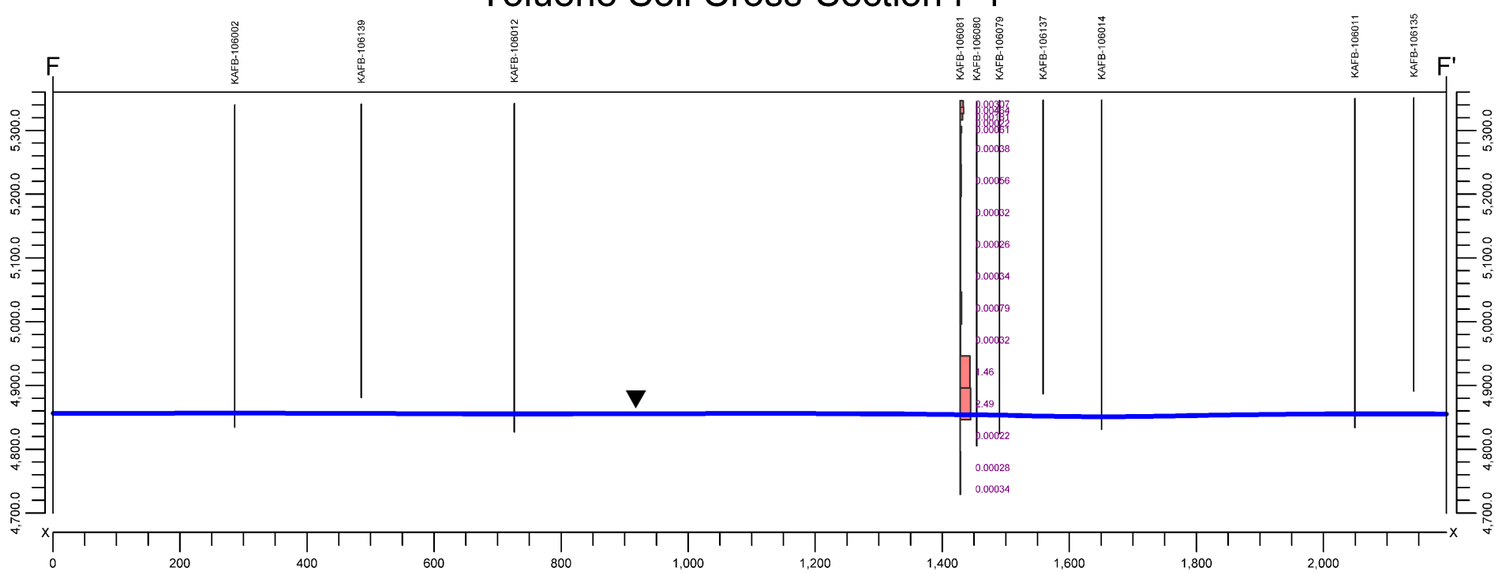
LITHOLOGY AND NAPHTHALENE SOIL NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_096_Napth_SO_cross_section_KK.mxd 11/22/11

Lithology Cross-Section F-F'



Toluene Soil Cross-Section F-F'



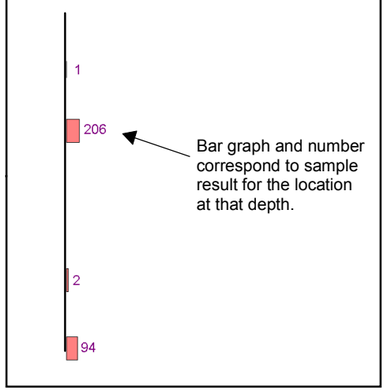
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Toluene concentrations are in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-9 for cross-section location map.

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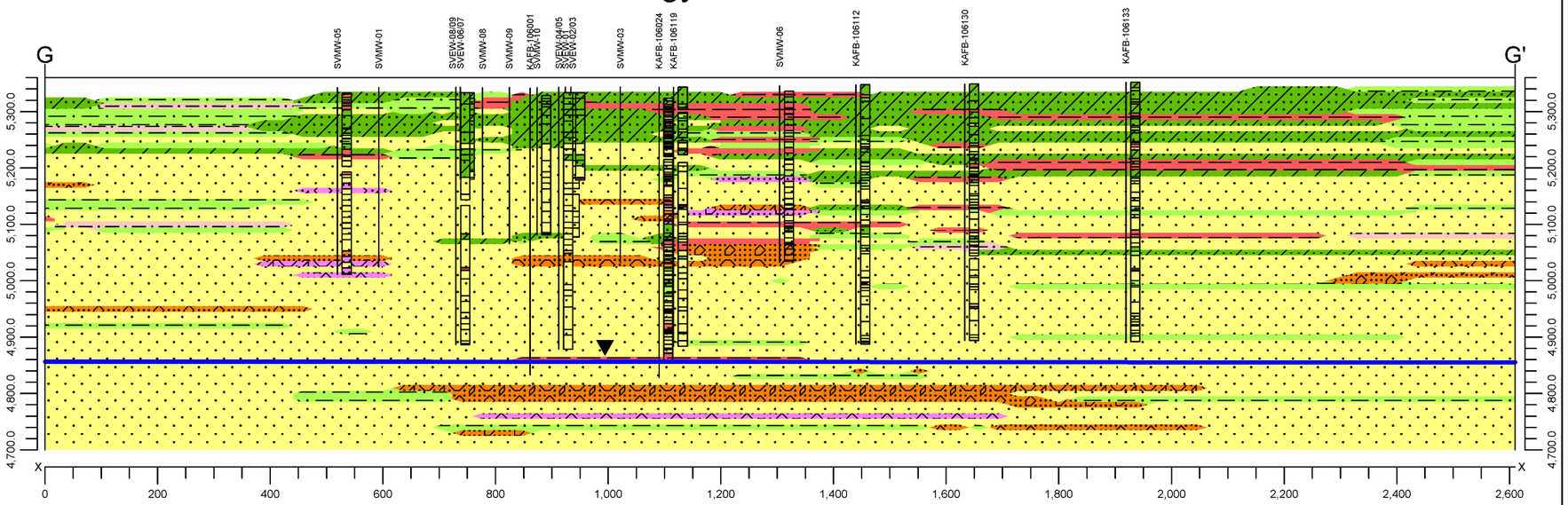
APPENDIX J2-46

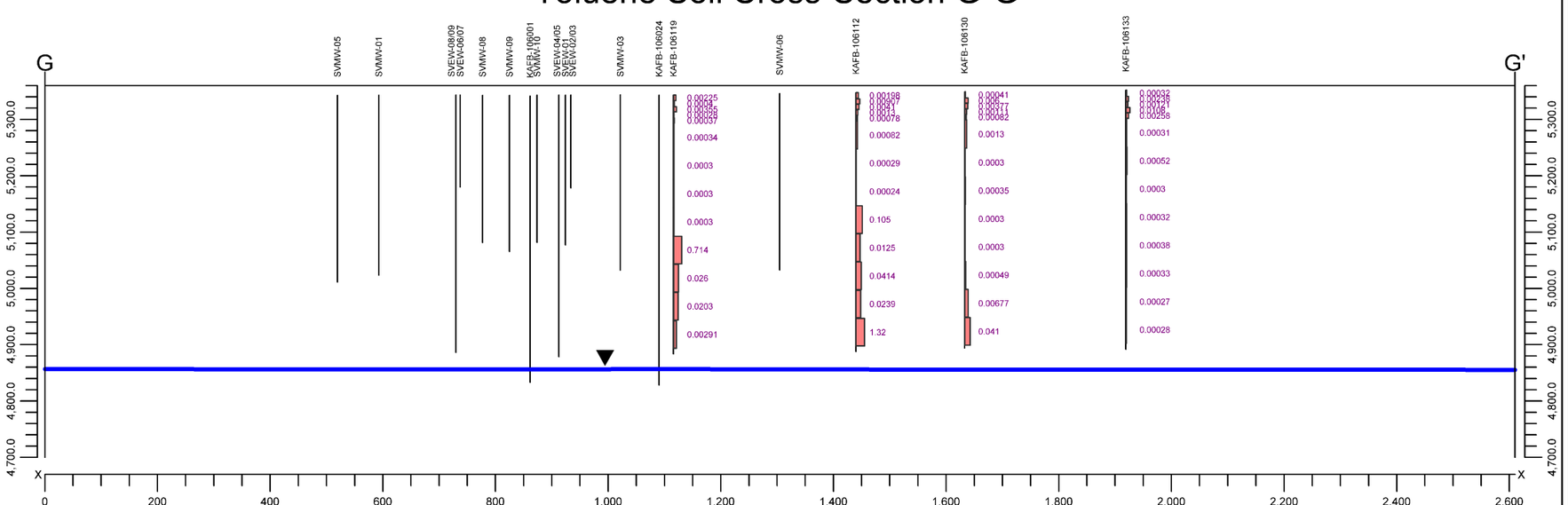
LITHOLOGY AND TOLUENE SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_097_Toluene_SO_cross_section_FF.mxd 11/22/11

Lithology Cross-Section G-G'



Toluene Soil Cross-Section G-G'



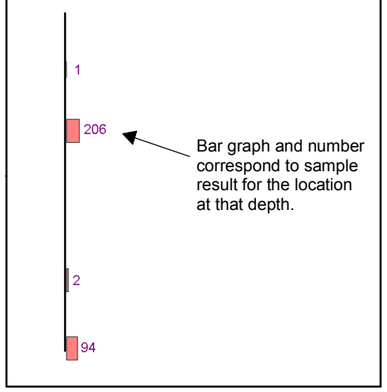
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Toluene concentrations are in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-9 for cross-section location map.

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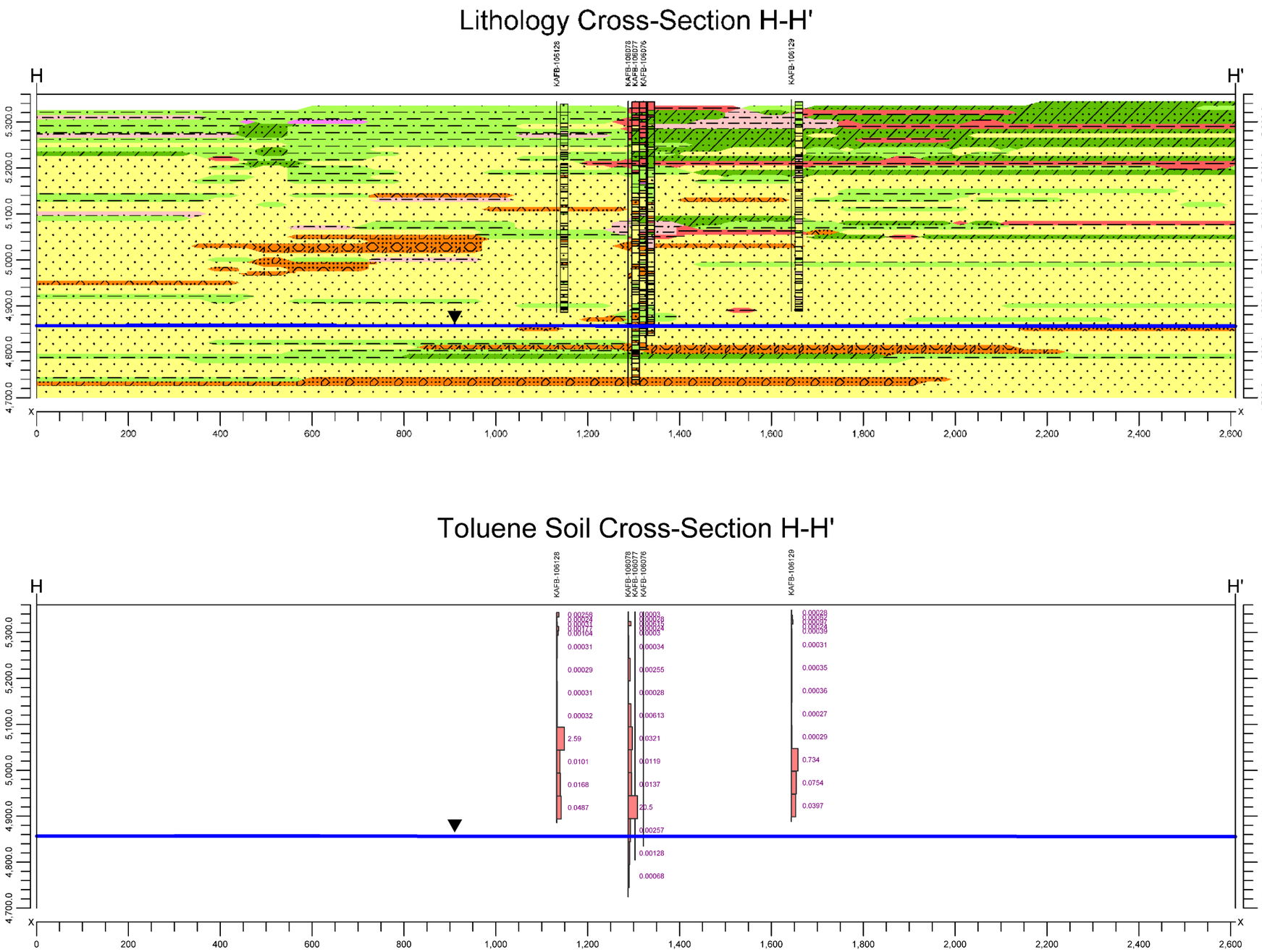
APPENDIX J2-47

LITHOLOGY AND TOLUENE SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_099_Toluene_SO_cross_section_GG.mxd 11/22/11



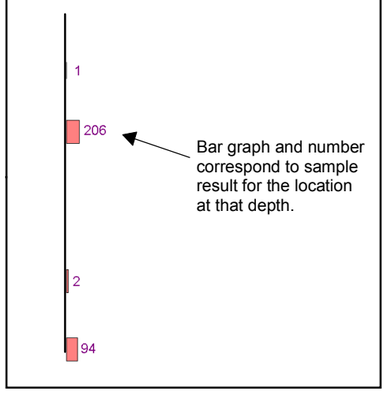
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Toluene concentrations are in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-9 for cross-section location map.

Revision Date: 11/22/11

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BULK FUELS FACILITY
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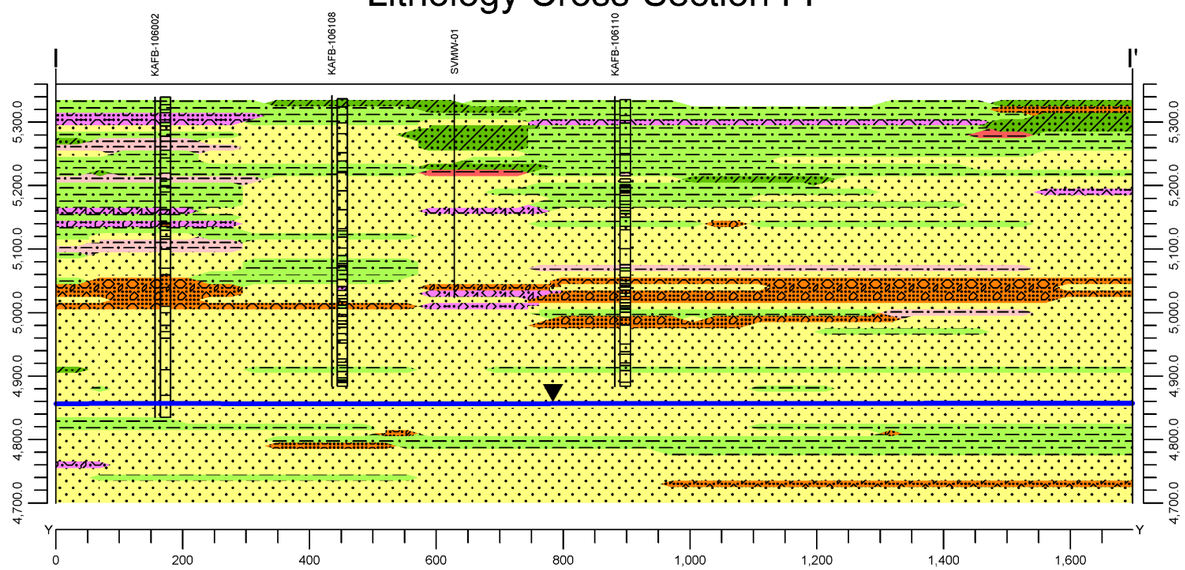
APPENDIX J2-48

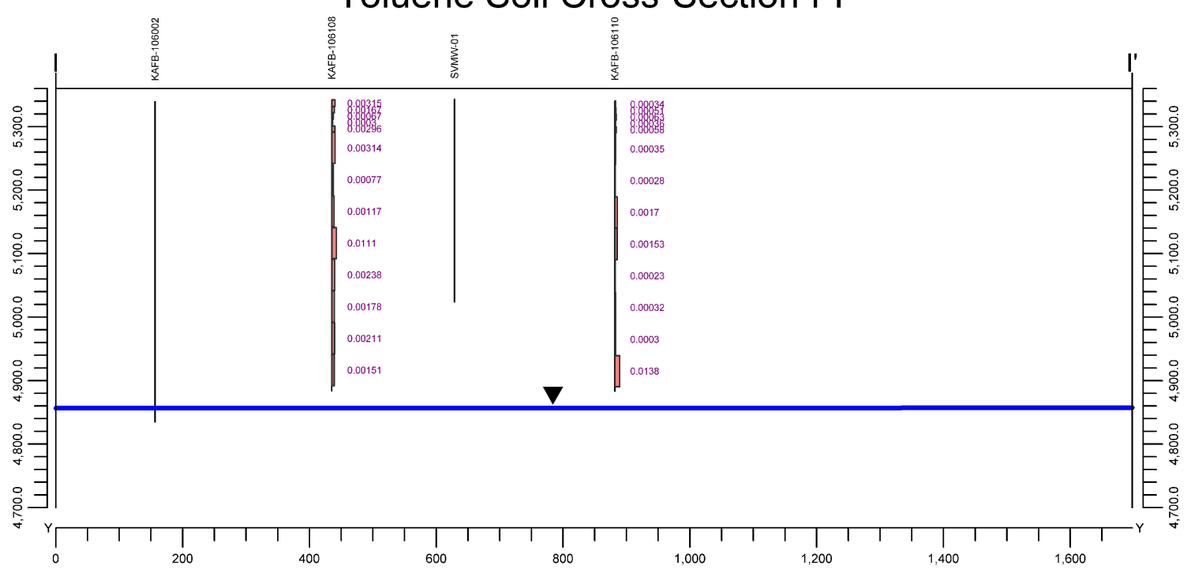
LITHOLOGY AND TOLUENE SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_100_Toluene_SO_cross_section_HH.mxd 11/22/11

Lithology Cross-Section I-I'



Toluene Soil Cross-Section I-I'



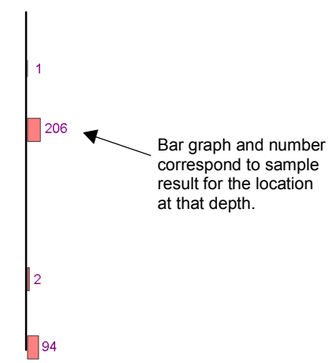
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Toluene concentrations are in mg/kg.

Water Table

Borehole Detail



Bar graph and number correspond to sample result for the location at that depth.

Note: No vertical exaggeration.
See Figure 4-9 for cross-section location map.

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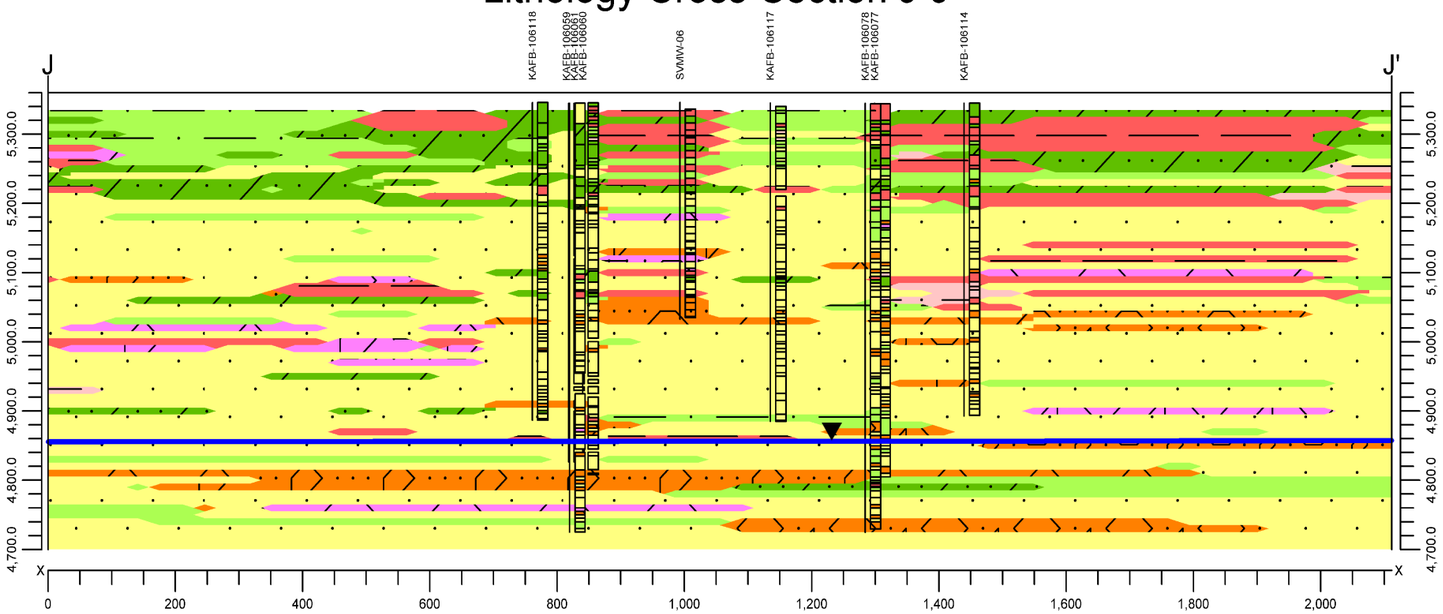
APPENDIX J2-49

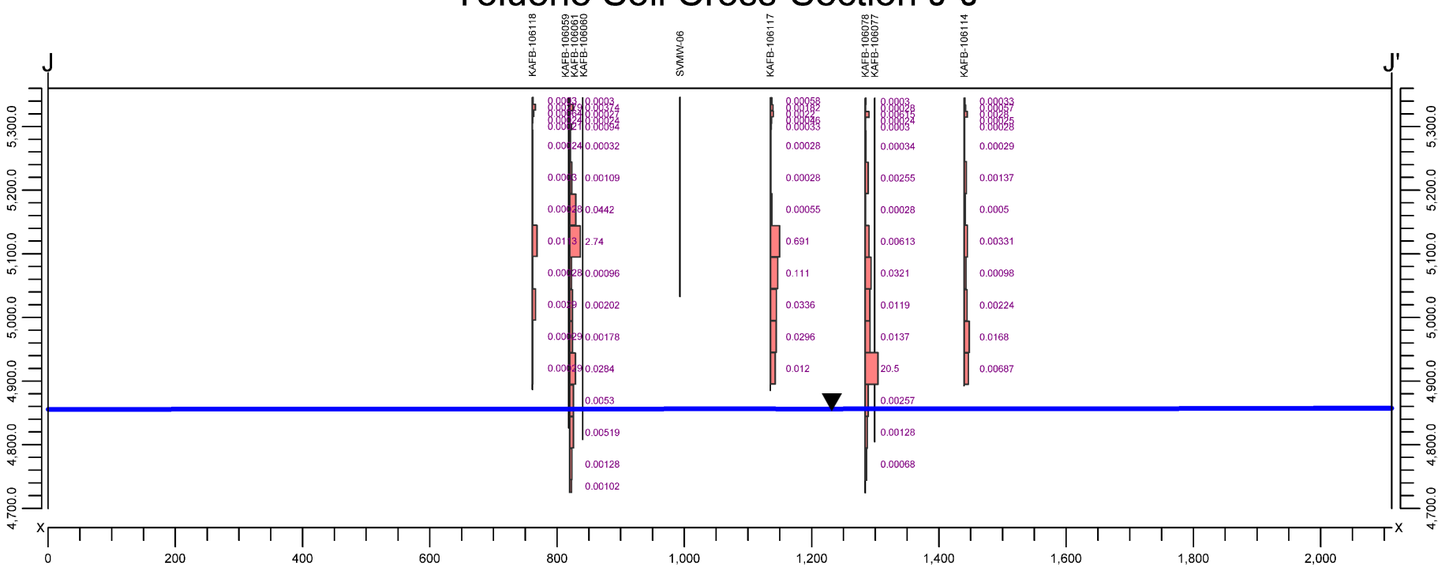
LITHOLOGY AND TOLUENE SOIL
NORTH-SOUTH CROSS-SECTIONS I-I'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_101_Toluene_SO_cross_section_II.mxd 11/22/11

Lithology Cross-Section J-J'



Toluene Soil Cross-Section J-J'



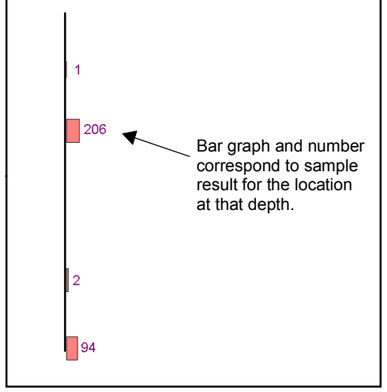
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Toluene concentrations are in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-9 for cross-section location map.

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BULK FUELS FACILITY
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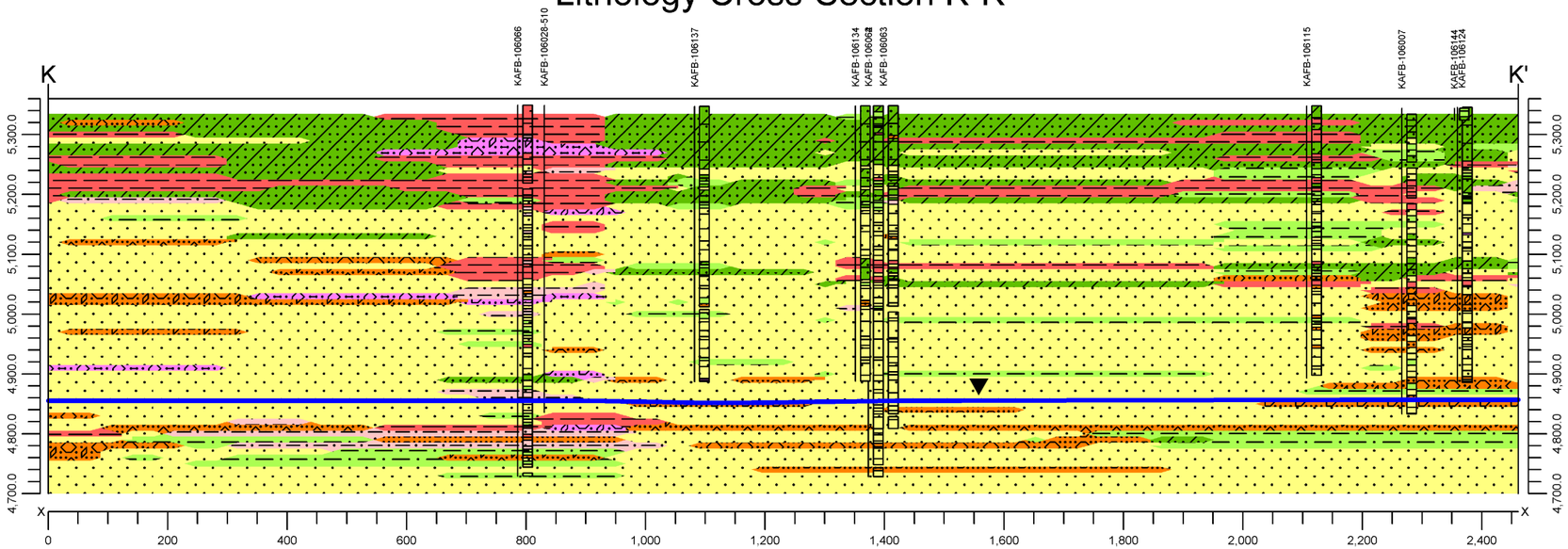
APPENDIX J2-50

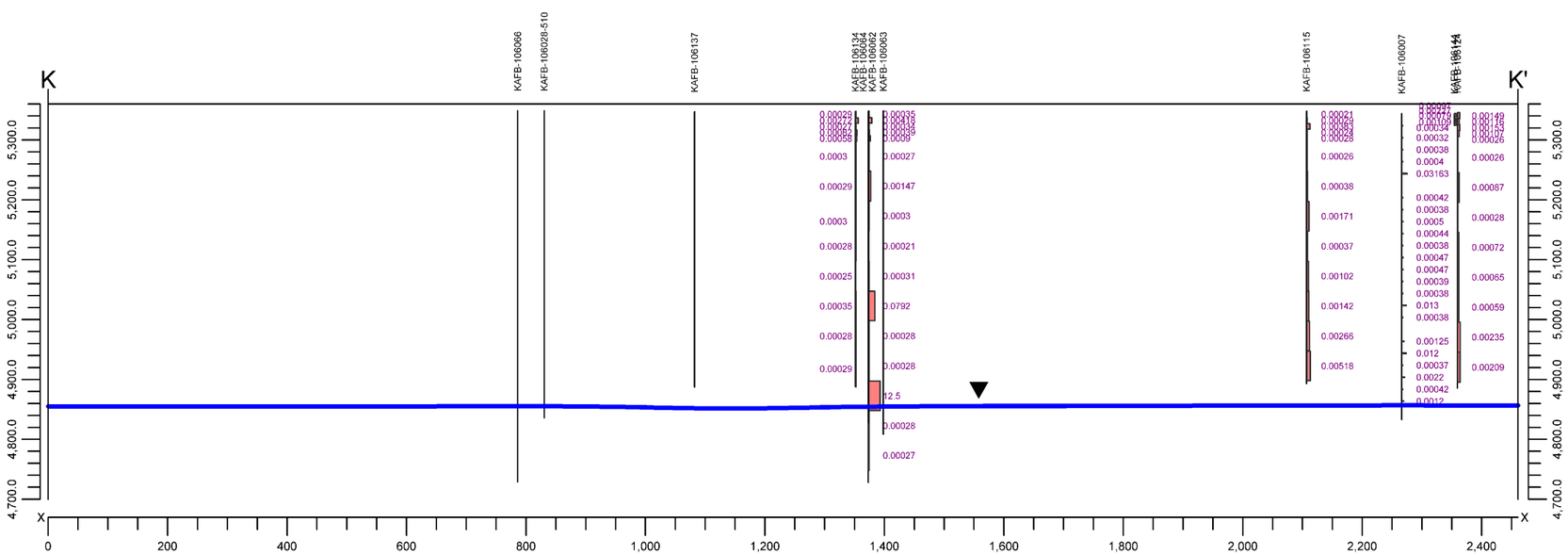
LITHOLOGY AND TOLUENE SOIL
NORTH-SOUTH CROSS-SECTIONS J-J'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_102_Toluene_SO_cross_section_JJ.mxd 11/22/11

Lithology Cross-Section K-K'



Toluene Soil Cross-Section K-K'



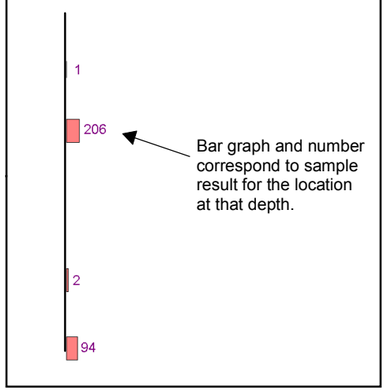
Lithology Index

- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Toluene concentrations are in mg/kg.

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-9 for cross-section location map.

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BULK FUELS FACILITY
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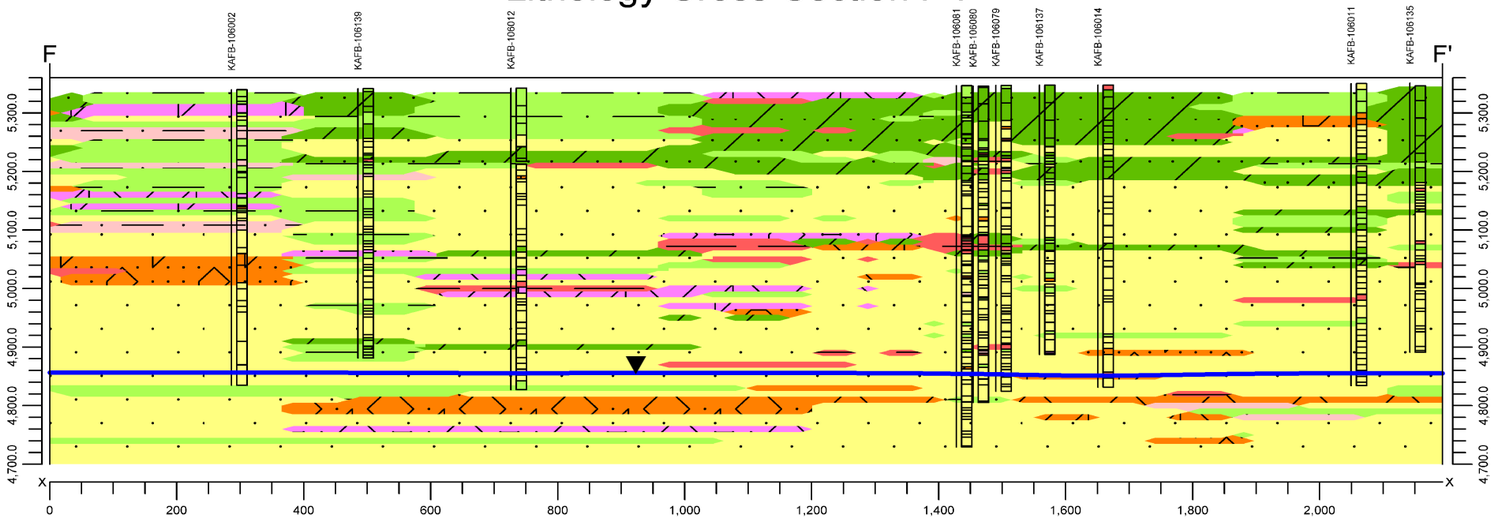
APPENDIX J2-51

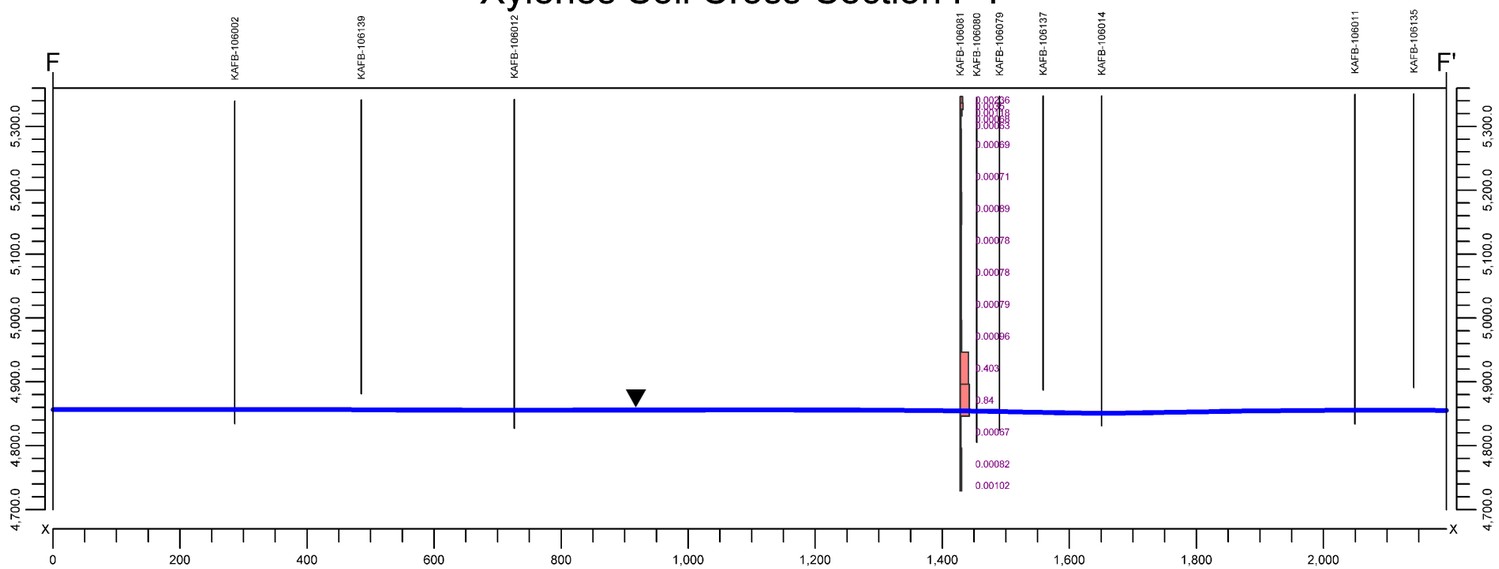
LITHOLOGY AND TOLUENE SOIL
NORTH-SOUTH CROSS-SECTIONS K-K'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_103_Toluene_SO_cross_section_KK.mxd 11/22/11

Lithology Cross-Section F-F'



Xylenes Soil Cross-Section F-F'



Lithology Index

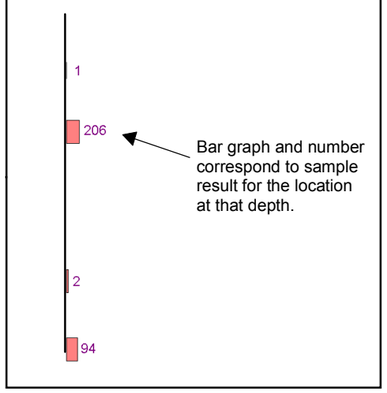
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Xylenes Concentration (mg/kg)

- 3.5 - 10.0
- 10.0 - 100.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-10 for cross-section location map.

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BULK FUELS FACILITY
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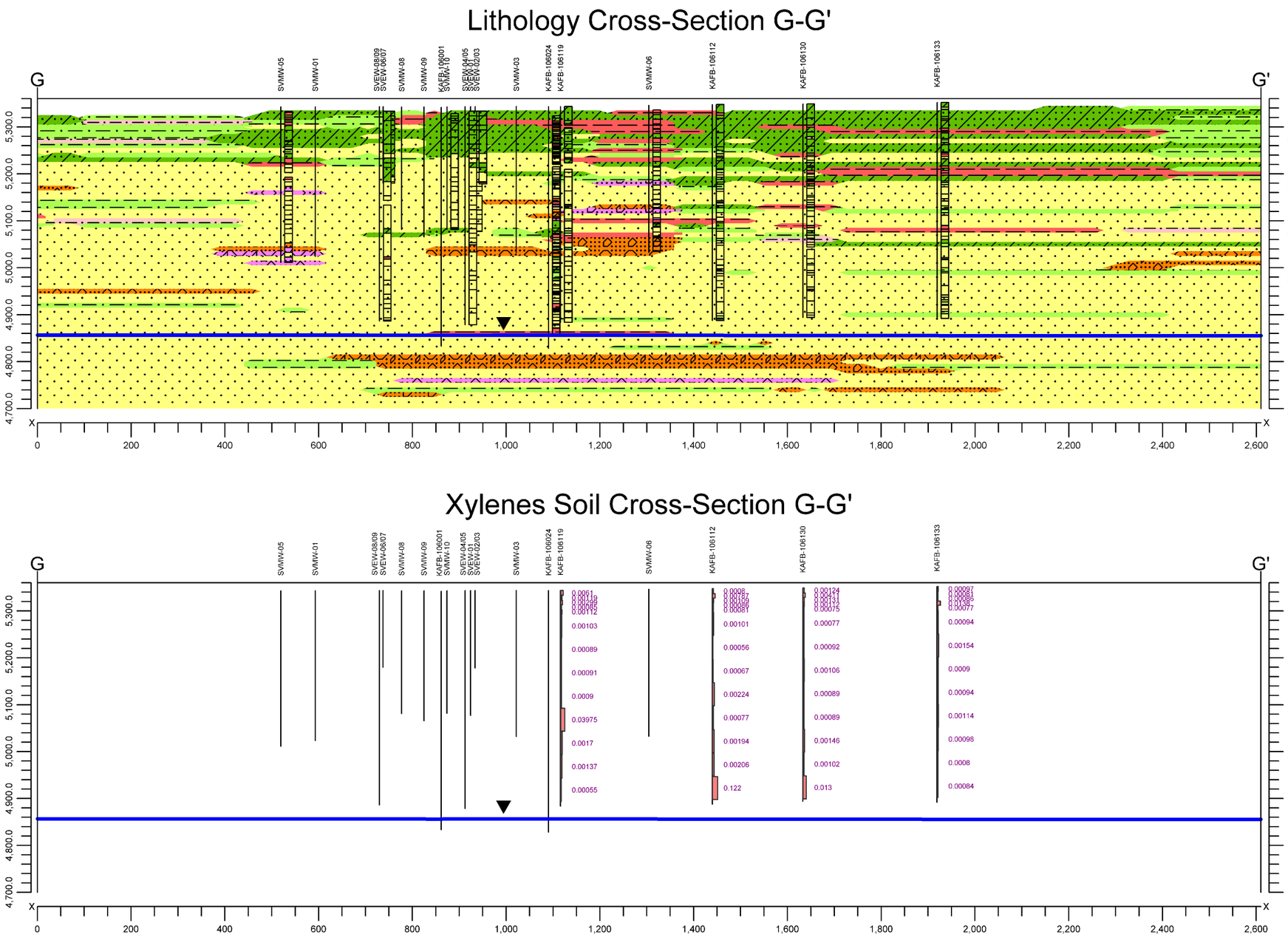
APPENDIX J2-52

LITHOLOGY AND XYLENES SOIL
EAST-WEST CROSS-SECTIONS F-F'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_104_Xylenes_SO_cross_section_FF.mxd 11/22/11



Lithology Index

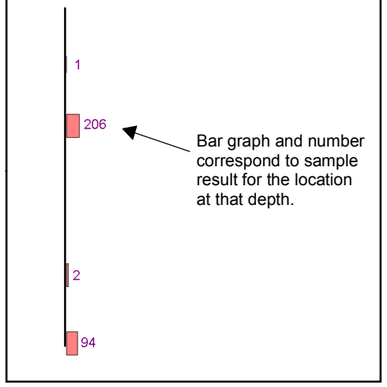
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Xylenes Concentration (mg/kg)

- 3.5 - 10.0
- 10.0 - 100.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-10 for cross-section location map.

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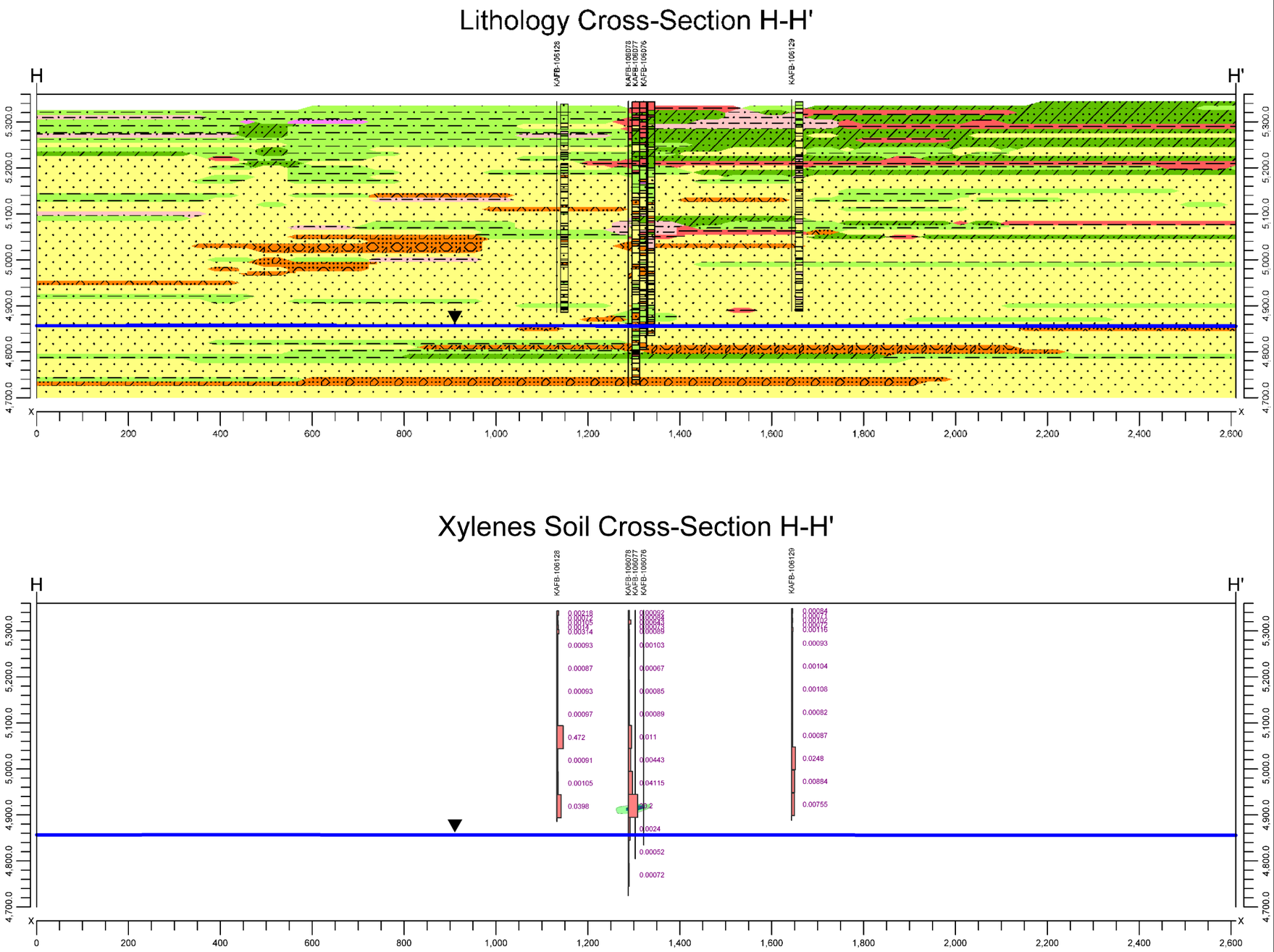
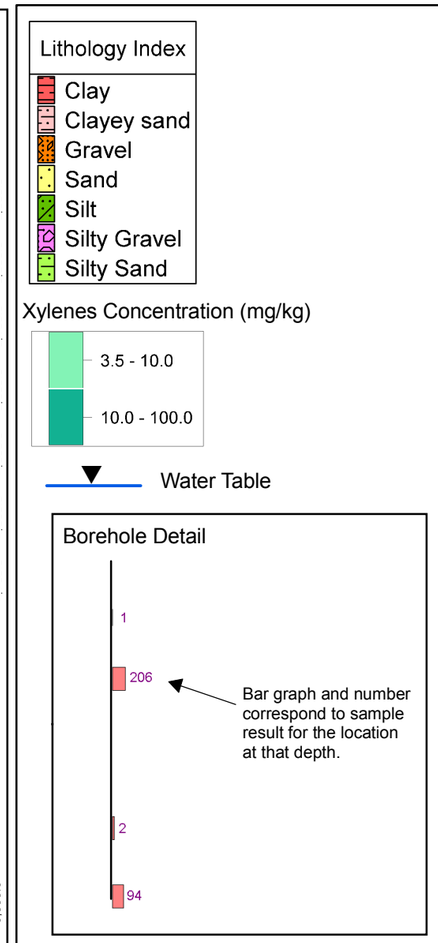
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-53

LITHOLOGY AND XYLENES SOIL
EAST-WEST CROSS-SECTIONS G-G'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_105_Xylenes_SO_cross_section_GG.mxd 11/22/11





Note: No vertical exaggeration.
See Figure 4-10 for cross-section location map.

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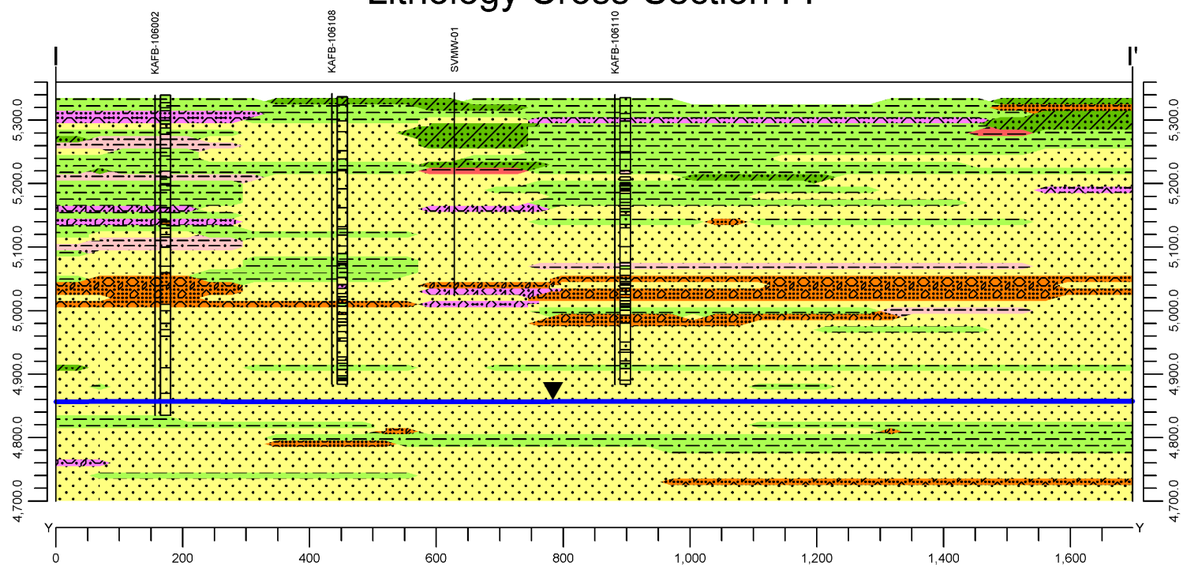
APPENDIX J2-54

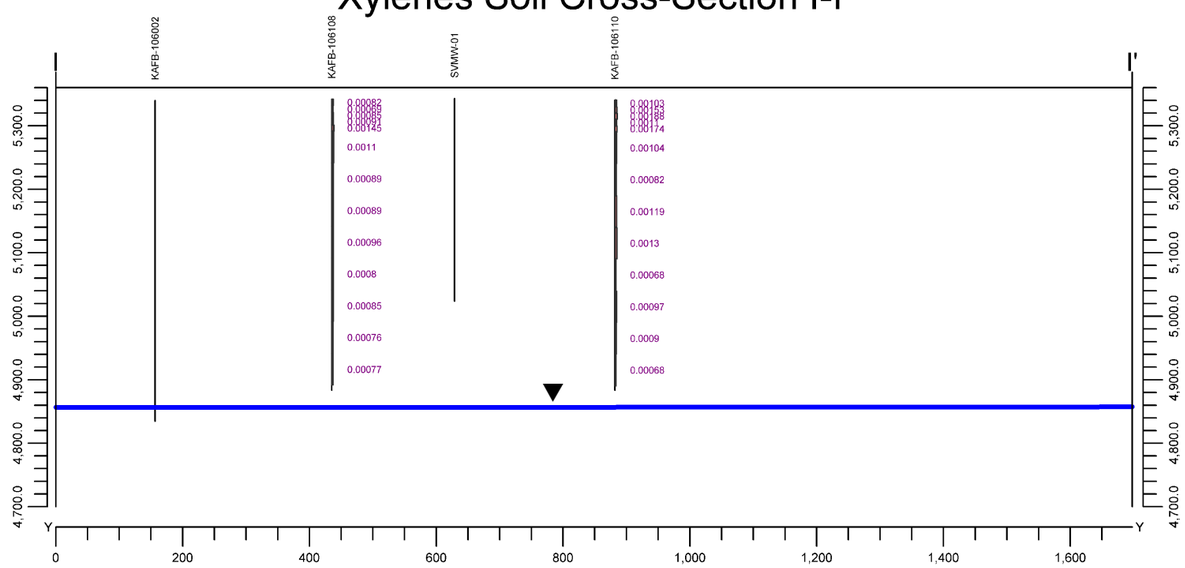
LITHOLOGY AND XYLENES SOIL
EAST-WEST CROSS-SECTIONS H-H'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_106_Xylenes_SO_cross_section_HH.mxd 11/22/11

Lithology Cross-Section I-I'



Xylenes Soil Cross-Section I-I'



Lithology Index

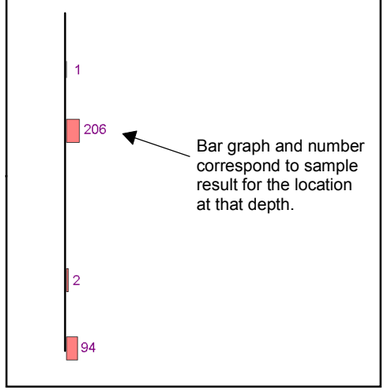
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Xylenes Concentration (mg/kg)

- 3.5 - 10.0
- 10.0 - 100.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-10 for cross-section location map.

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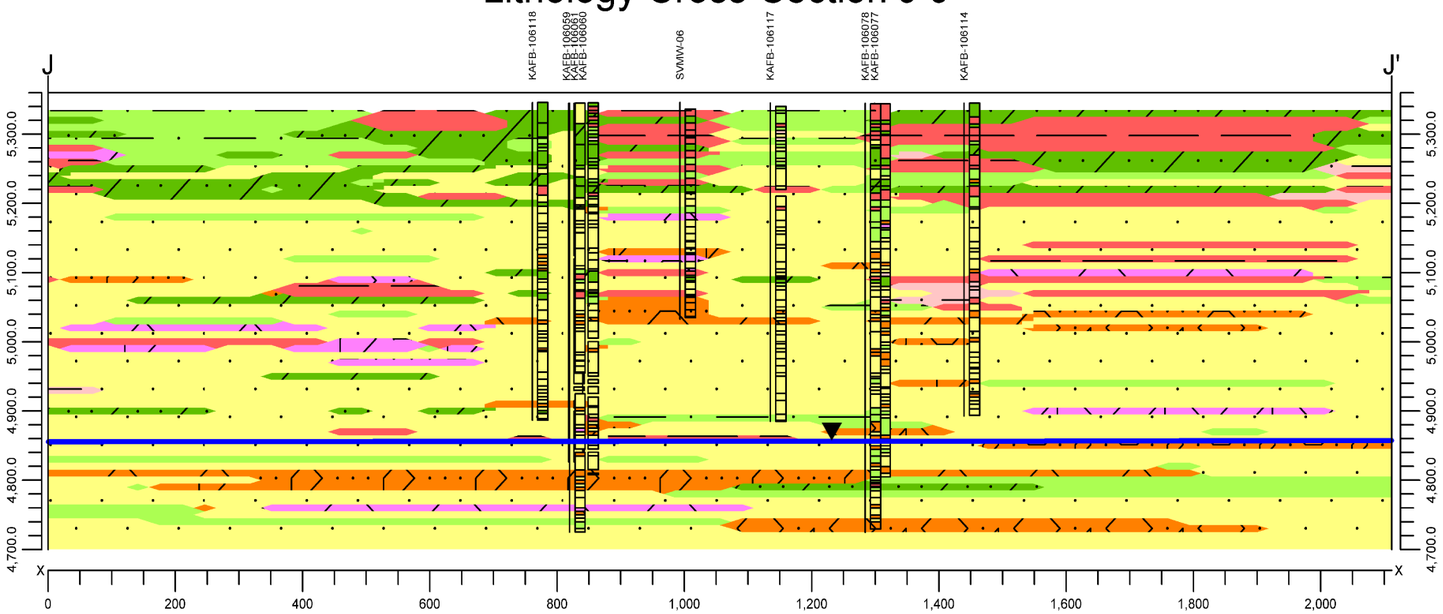
BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

APPENDIX J2-55

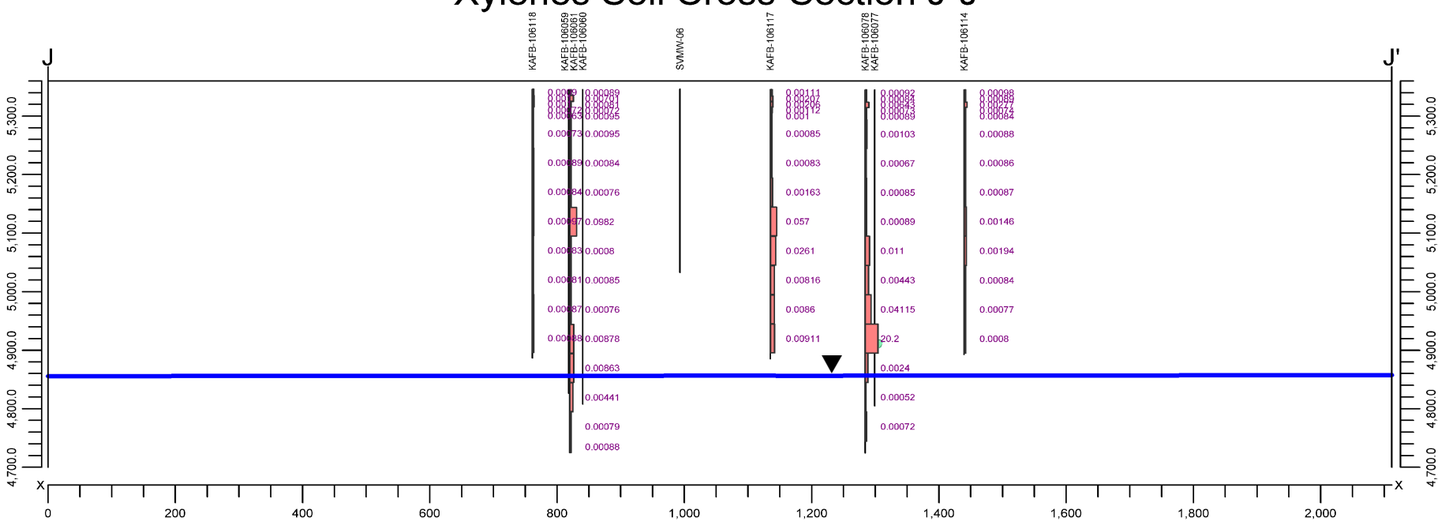
LITHOLOGY AND XYLENES SOIL
NORTH-SOUTH CROSS-SECTIONS I-I'

H:\Kirtland_AFB\GIS_Documents\Project_Maps\2001BA_2011_QTR_Monitor_SVE_OM\2011_03\KAFB_107_Xylenes_SO_cross_section_II.mxd 11/22/11

Lithology Cross-Section J-J'



Xylenes Soil Cross-Section J-J'



Lithology Index

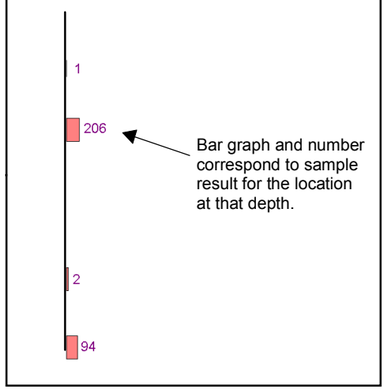
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Xylenes Concentration (mg/kg)

- 3.5 - 10.0
- 10.0 - 100.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-10 for cross-section location map.

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APPENDIX J2-56

LITHOLOGY AND XYLENES SOIL
NORTH-SOUTH CROSS-SECTIONS J-J'

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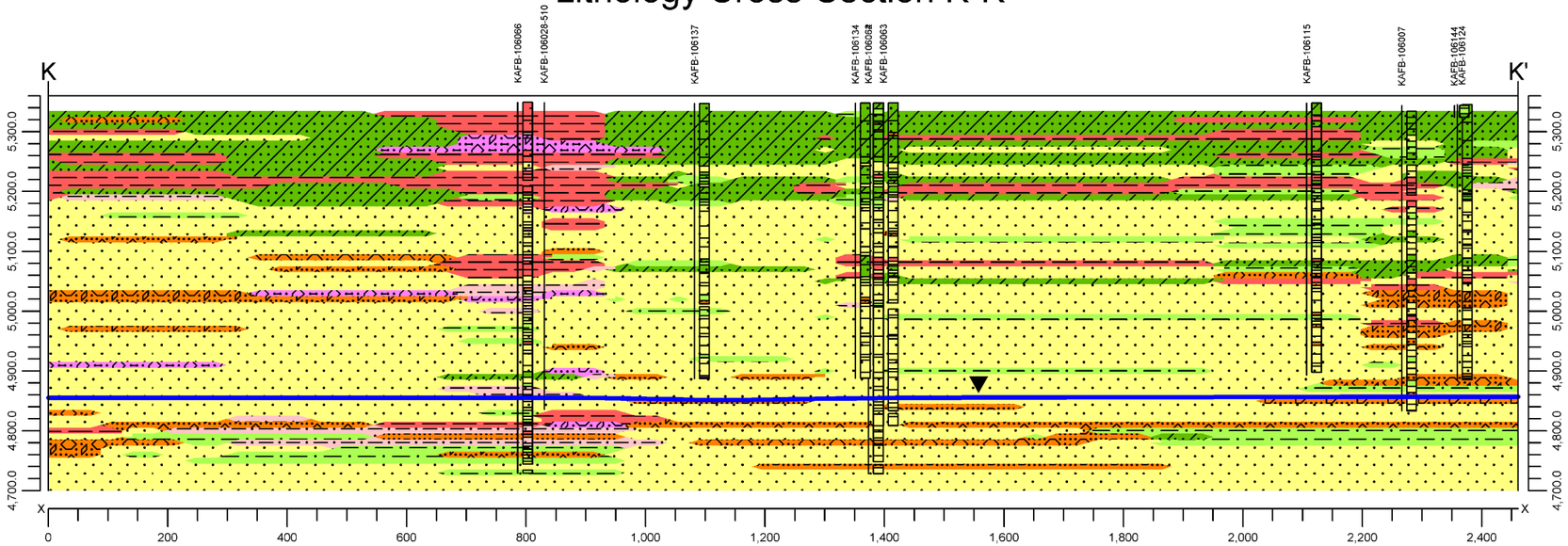
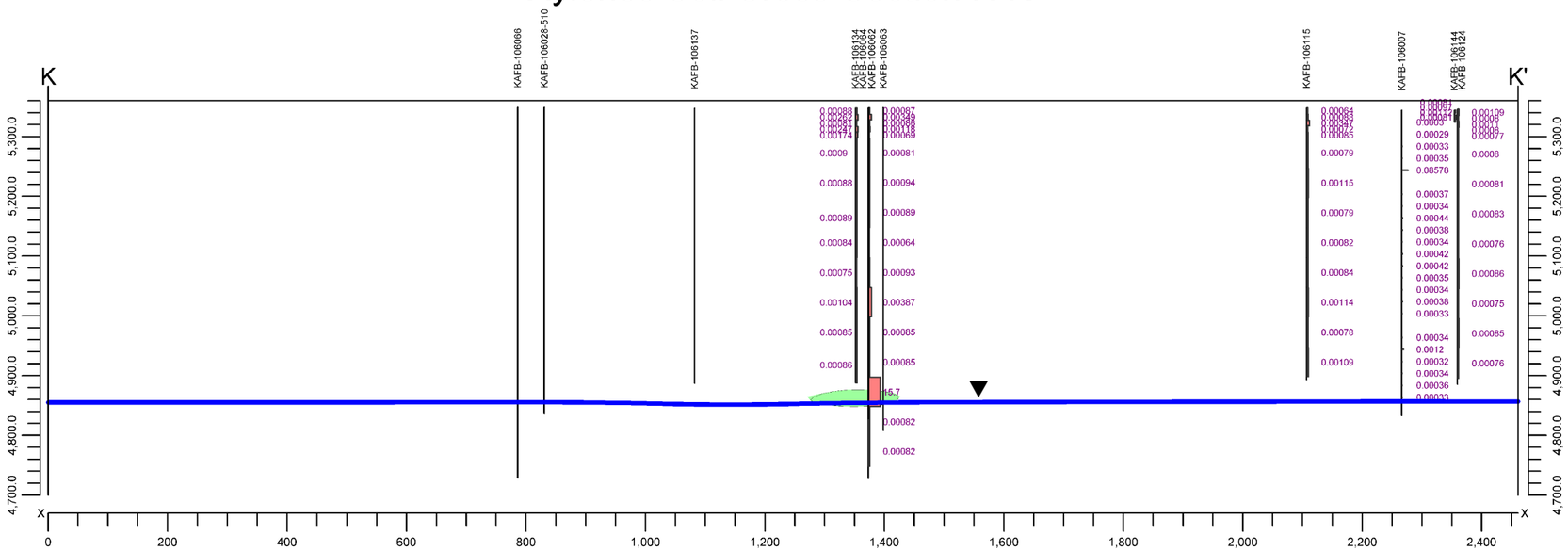
Lithology Cross-Section K-K'



Xylenes Soil Cross-Section K-K'



Lithology Index

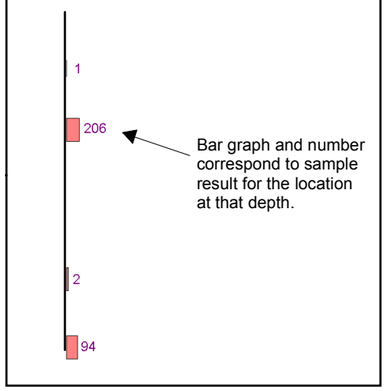
- Clay
- Clayey sand
- Gravel
- Sand
- Silt
- Silty Gravel
- Silty Sand

Xylenes Concentration (mg/kg)

- 3.5 - 10.0
- 10.0 - 100.0

Water Table

Borehole Detail



Note: No vertical exaggeration.
See Figure 4-10 for cross-section location map.

Revision Date: 11/22/11

2011 QUARTERLY REPORT 03
BULK FUELS FACILITY
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APPENDIX J2-57

LITHOLOGY AND XYLENES SOIL
NORTH-SOUTH CROSS-SECTIONS K-K'

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