

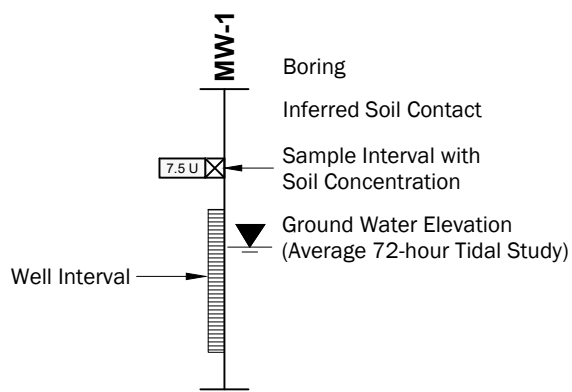
Legend

- Soil Type**
- Asphalt or Concrete
 - Interpolated Upper/Lower Fill Contact
 - Interpolated Fill/Native Contact
 - Interpolated Mean Groundwater Elevation
- Color Coding for Analytical Results**
- IHS was not detected above the SL
 - IHS was detected at a concentration between 1x and 10x the SL
 - IHS was detected at a concentration greater than 10x the SL
- Screening Cleanup Level:
 Vadose Zone Soil = 0.03 mg/kg
 Saturated Zone Soil = 0.0016 mg/kg
- Approximate UST Removal Excavation Limit**
- Approximate UST Removal Excavation Limit
- U = Analyte not detected above the reported practical quantitation limit**
- J = Estimated analyte concentration**
- UST = Underground Storage Tank**
- SL = Screening Level**
- mg/kg = milligrams per kilogram**



Notes:

- See figure 7 for line of cross sections.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

**Benzene in Soil
Cross-Section A-A'**

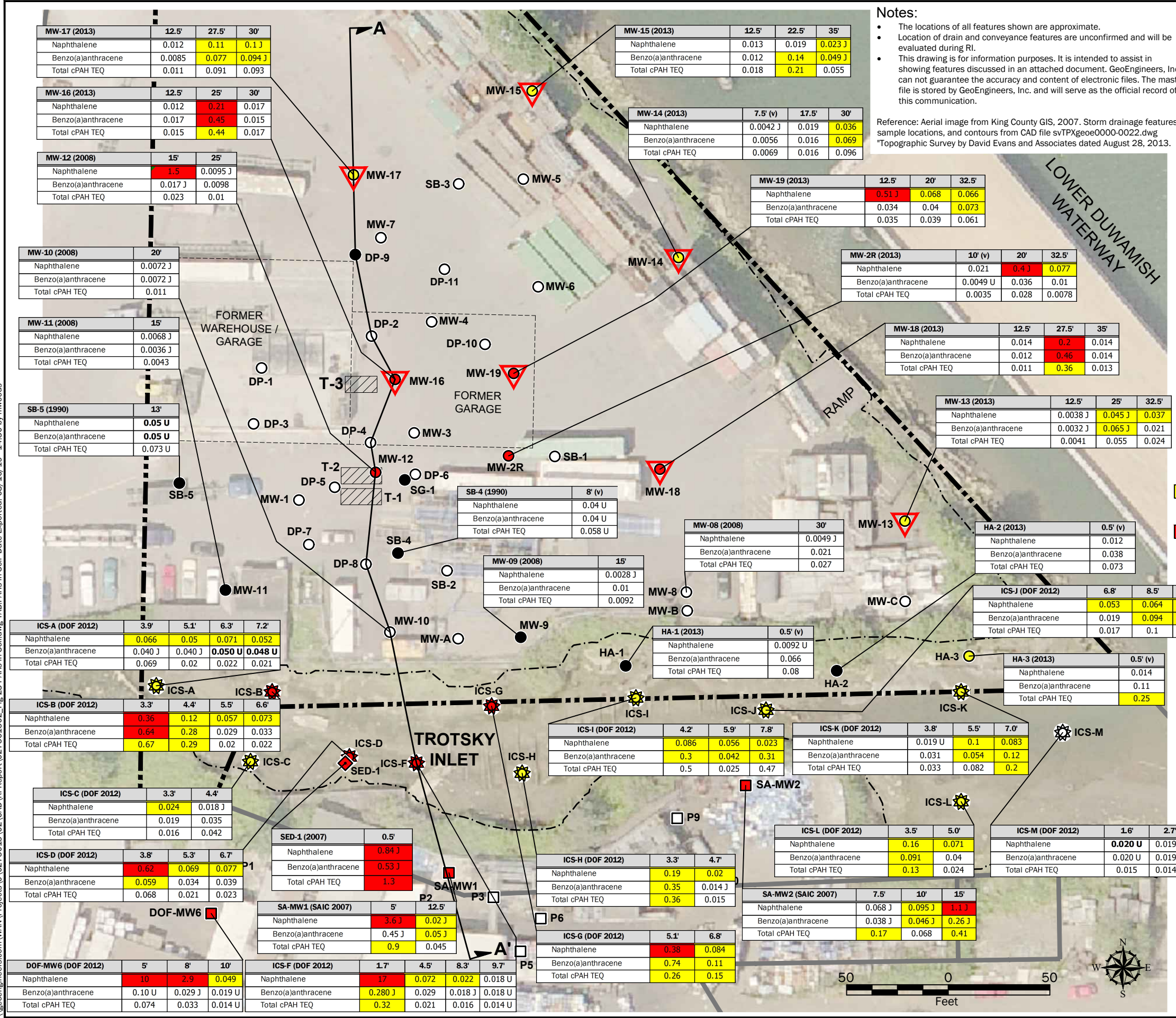
7100 1st Avenue South Site
Seattle, Washington

Figure 22

\\geoengineers.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig Soil Cross-Sections.dwg TAB:Fig.22 - A-A' - BENZENE Date Exported: 06/16/19 - 14:27 by mwwoods

Reference: Base CAD drawing provided by David Evans Associates (2013 Survey). Locations of historic features from D&M, 1991, SAIC 2009, and historic aerial photos (1974 and 1985).

\\geoenr.com\Projects\0275015\02\CAD\RI Report\027501502_Fig 23 PAHs in Soil.dwg TAB:PAHs in Soil Date Exported: 08/16/19 - 14:30 by mwwoods



Notes:

- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTP\geoe0000-0022.dwg *Topographic Survey by David Evans and Associates dated August 28, 2013.

Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway
- Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Soil Sample Location (Yellow or Red indicate exceedance of IHS at location)
- Soil Sample Location Not Sampled
- Explorations Completed by Others for ICS Site RI
- Upland Exploration (Soil Boring)
- Sediment Core Location (DOF 2012)
- Surface Sediment Sample Location (SAIC 2007)
- 7100 Site location where other PAHs or SVOCs exceed respective SLs

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

Data Box Explanation:

Sample Location	Sample Depth (feet bgs)
Chemical Constituent	Result (mg/Kg)

Yellow shading indicates Naphthalene, Benzo(a)anthracene, or cPAH TEQ was detected at a concentration between 1x and 10x the respective SL

Red shading indicates Naphthalene, Benzo(a)anthracene, or cPAH TEQ was detected at a concentration greater than 10x the respective SL

Bold results indicate an undetected result with a reporting limit above the respective SL

Diesel plus lube oil-range hydrocarbons SL = 30 mg/kg

Diesel-range hydrocarbons SL = 2,000 mg/kg

Benzene SL = 0.0016 mg/kg (saturated zone), 0.030 mg/kg (vadose zone)

SL = Screening Level

(1) = sample analyzed by older Total Petroleum Hydrocarbons Method (does not report individual ranges)

U = analyte not detected above the reported practical quantitation limit

J = estimated analyte concentration

bgs = below ground surface

mg/Kg = milligrams per kilograms

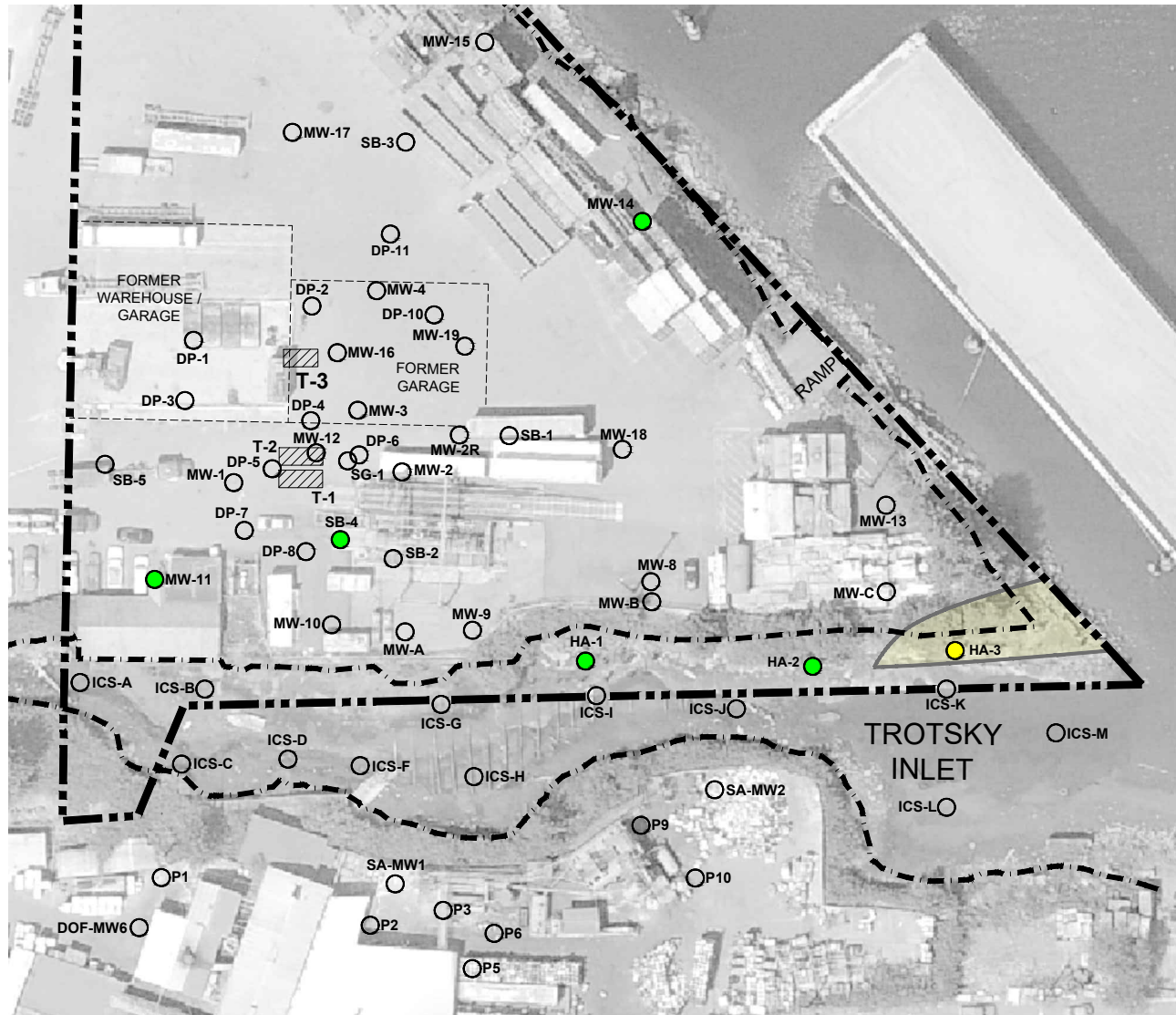
PAHs and SVOCs in Soil

7100 1st Avenue South Site
Seattle, Washington

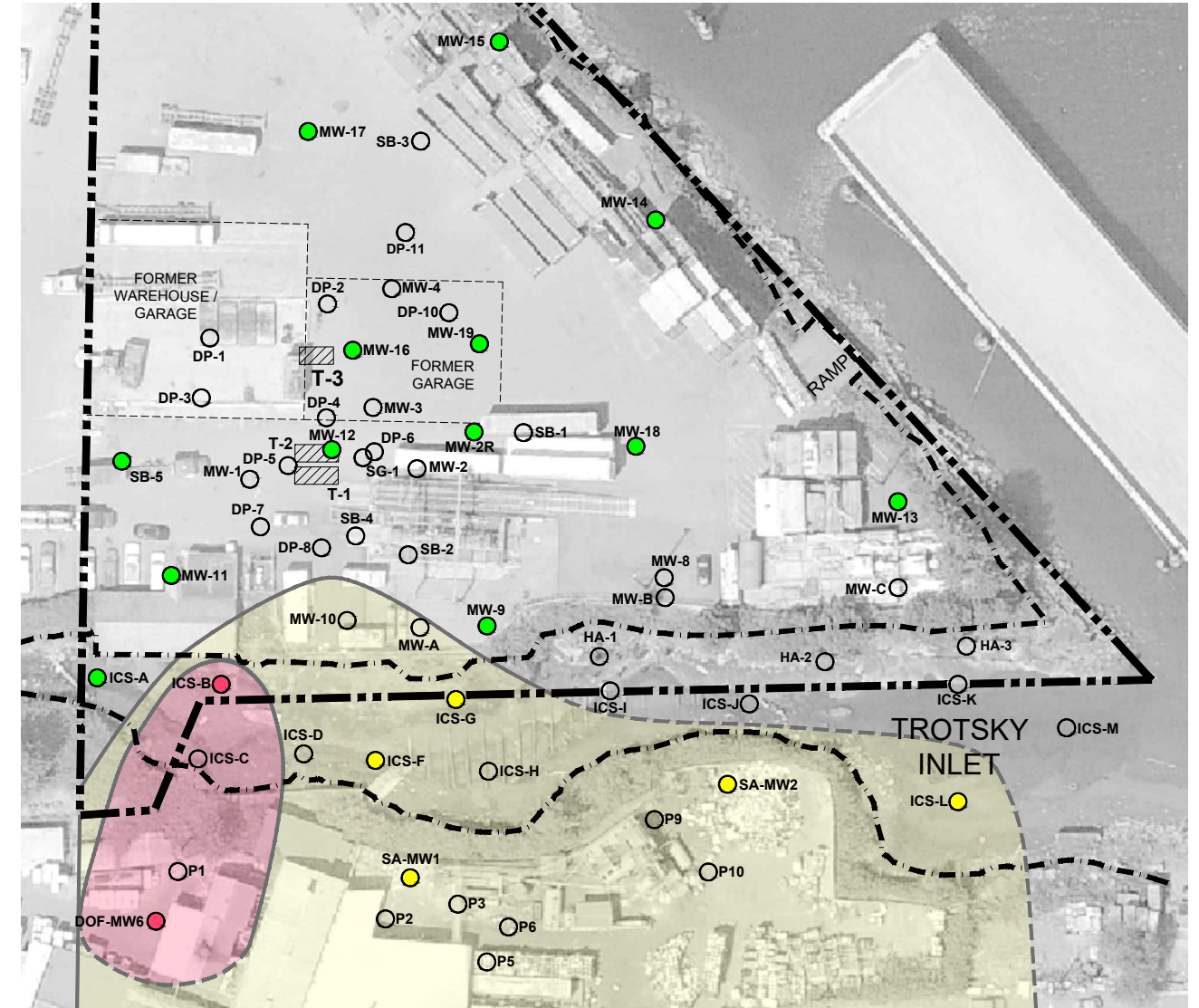
Figure 23



\\geoenr\geoenr\Projects\0275015\02\CAD\RI Report\027501502_Fig_18-23-27-30 Soil Unit Conditions.dwg TAB:cPAHs in Soil - 24 Date Exported: 08/16/19 - 14:31 by mwwoods



**Soil Analytical Results between approximately +17 and +7 Feet NAVD-88
(Approximately equivalent to 0'-10' below 7100 Site ground surface elevation)**



**Soil Analytical Results between approximately +7 and -3 Feet NAVD-88
(Approximately equivalent to 10'-20' below 7100 Site ground surface elevation)**

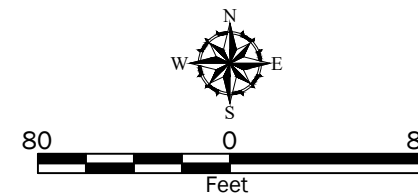
Legend

- 7100 1st Avenue South Property Boundary
 - Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
 - Former Underground Storage Tank (Removed)
 - Soil Sample Location (Not Analyzed for Soil IHS)
 - No IHSs were detected above respective SL
 - At least one IHS was detected at a concentration between 1x and 10x the respective SL
 - At least one IHS was detected at a concentration greater than 10x the respective SL
 - Concentration Contours, dashed where inferred
- SL = Screening Level
IHS = Indicator Hazardous Substance

Notes:

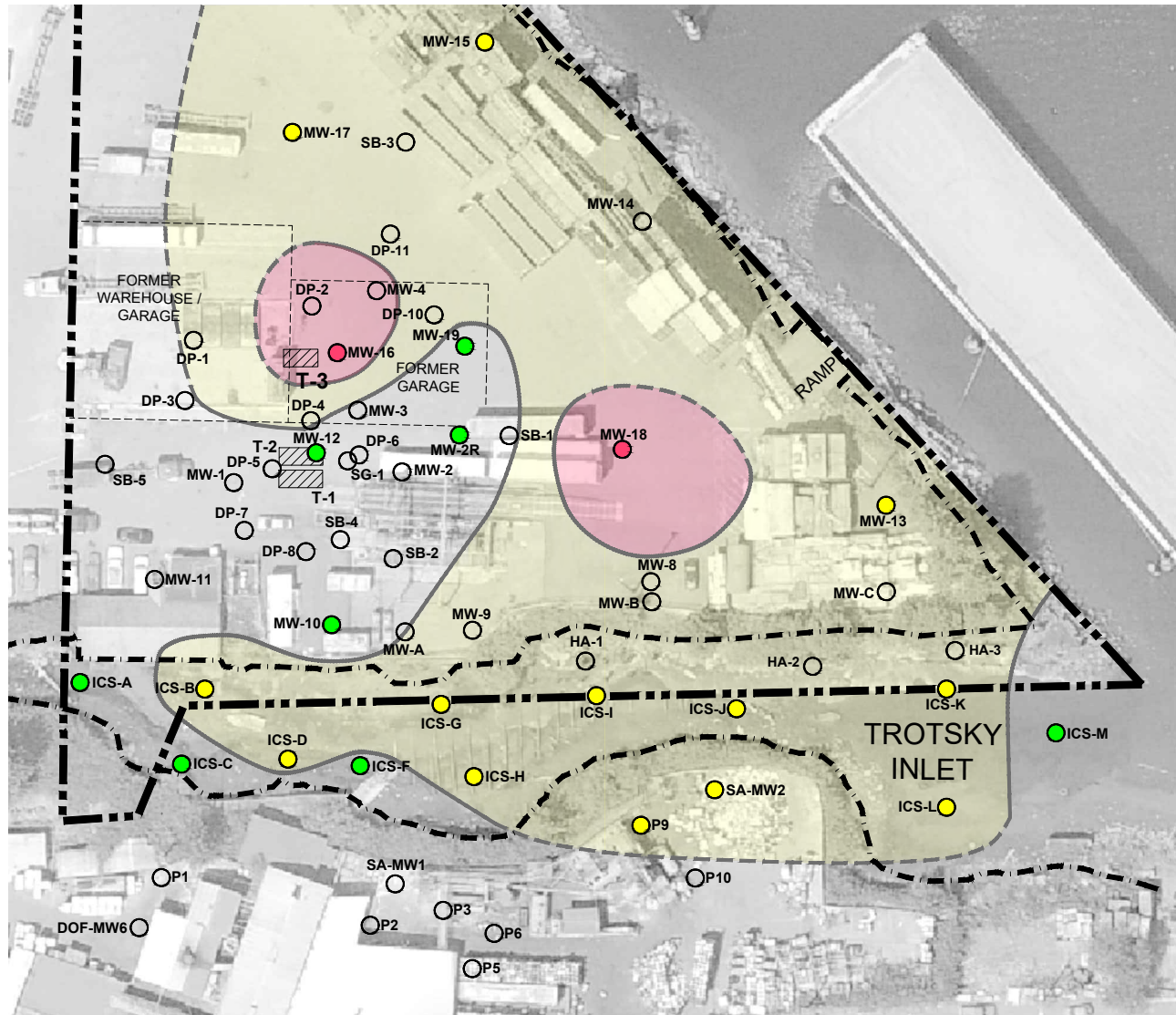
- Off-site (ICS Site) samples were included within appropriate depth intervals relative to 7100 Site ground surface based on sample elevation data provided in the 2016 Draft RI Report for the ICS Site (DOF 2016).
- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.

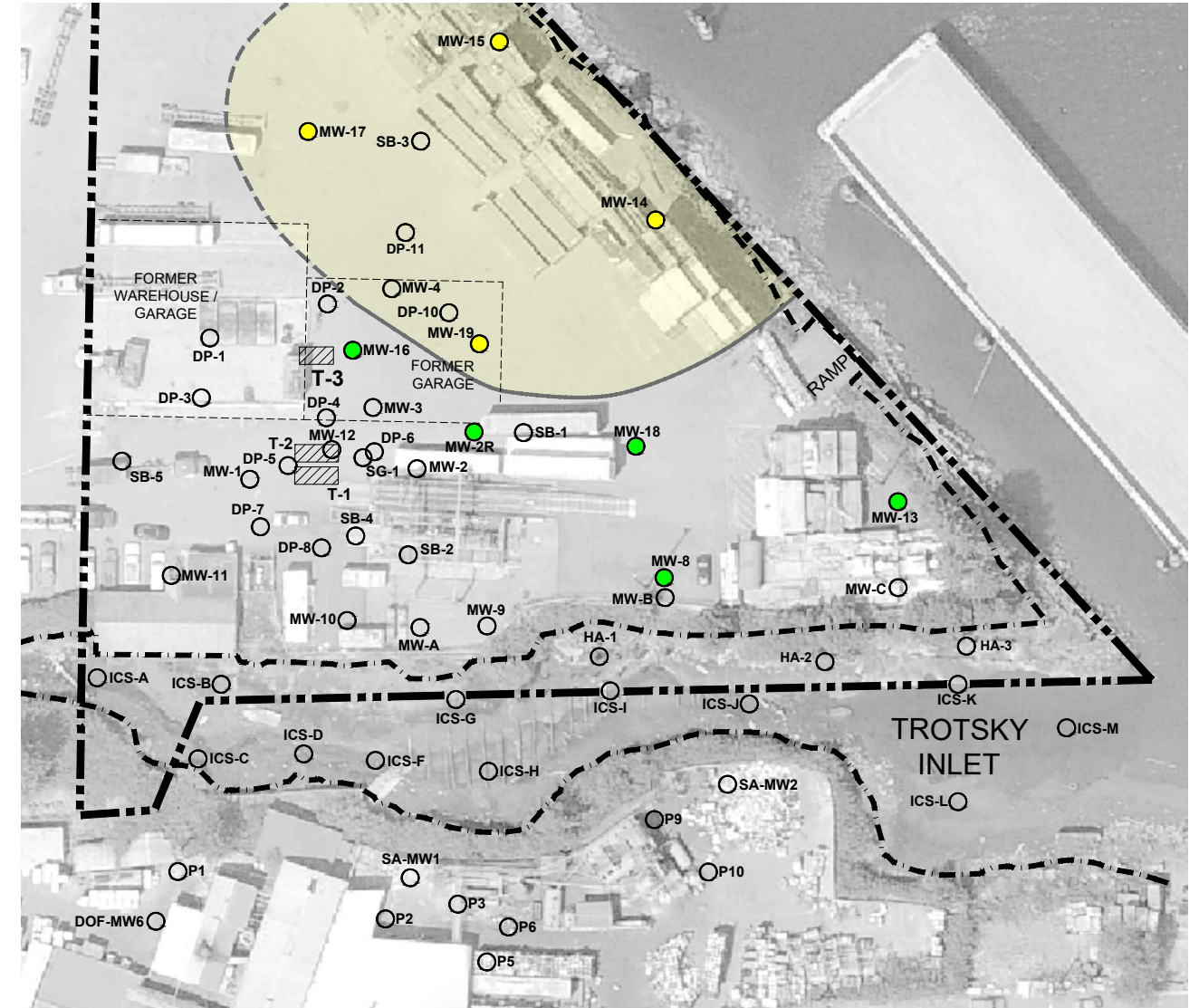


cPAHs in Soil by Elevation (-3 to +17 Feet NAVD-88)	
7100 1st Avenue South Site Seattle, Washington	
	Figure 24

\\geoenr\geoenr\Projects\0275015\02\CAD\RI Report\027501502_Fig 18-23-27-30 Soil Unit Conditions.dwg TAB: cPAHs in Soil - 25 Date Exported: 08/16/19 - 14:32 by mwoods











**Soil Analytical Results between approximately -3 and -13 Feet NAVD-88
(Approximately equivalent to 20'-30' below 7100 Site ground surface elevation)**



**Soil Analytical Results below -13 Feet NAVD-88
(Approximately equivalent to greater than 30' below 7100 Site ground surface elevation)**

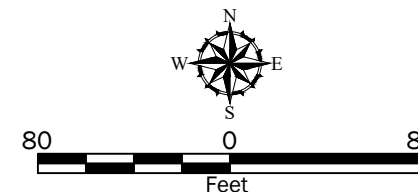
Legend


-  7100 1st Avenue South Property Boundary
 -  Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
 -  Former Underground Storage Tank (Removed)
 -  Soil Sample Location (Not Analyzed for Soil IHS)
 -  No IHSs were detected above respective SL
 -  At least one IHS was detected at a concentration between 1x and 10x the respective SL
 -  At least one IHS was detected at a concentration greater than 10x the respective SL
 -  Concentration Contours, dashed where inferred
- SL = Screening Level
IHS = Indicator Hazardous Substance

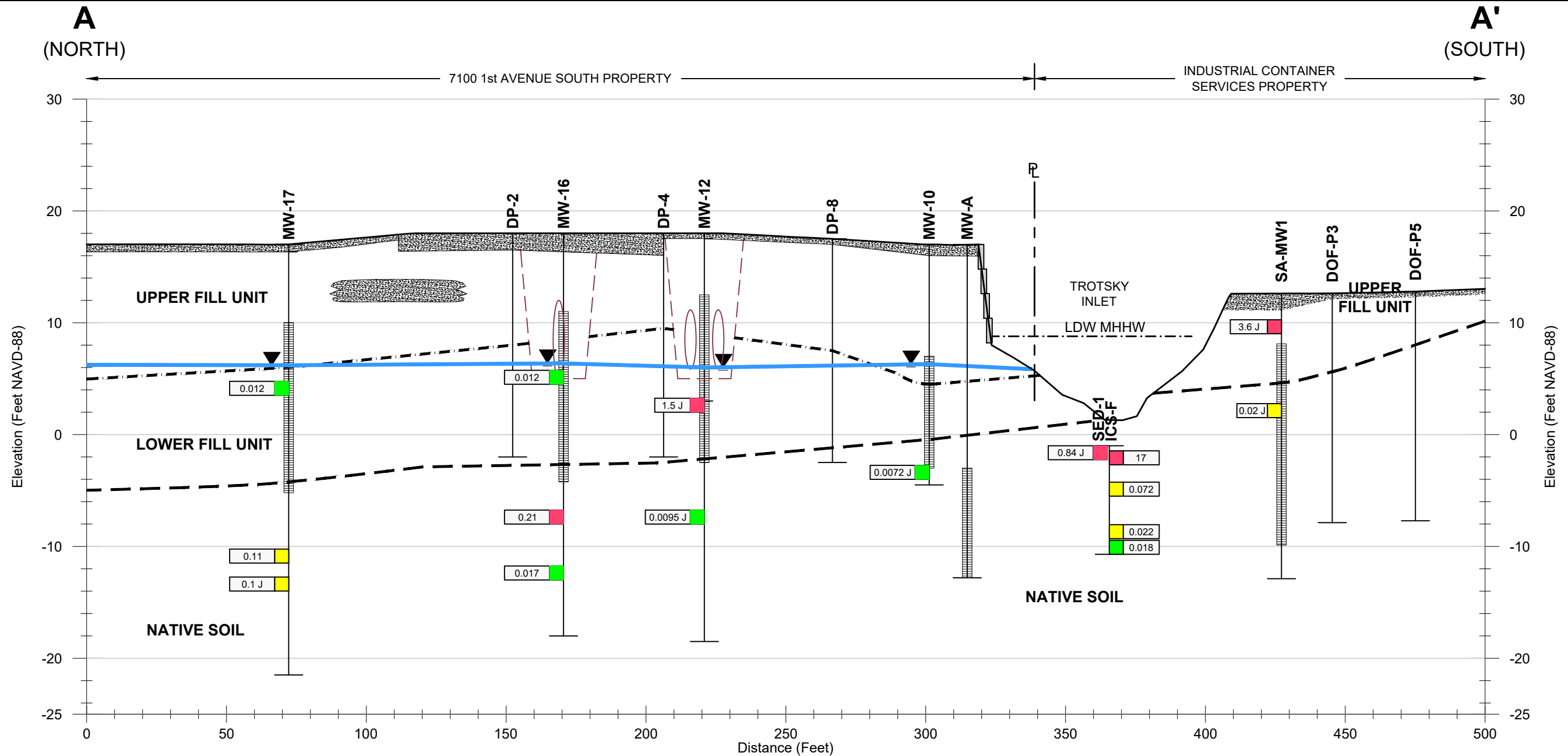
Notes:

- Off-site (ICS Site) samples were included within appropriate depth intervals relative to 7100 Site ground surface based on sample elevation data provided in the 2016 Draft RI Report for the ICS Site (DOF 2016).
- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.



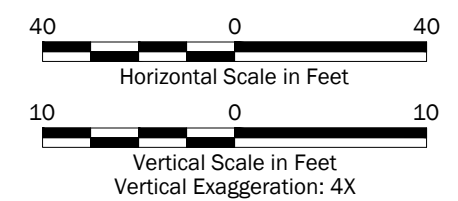
cPAHs in Soil by Elevation (Below -3 Feet NAVD-88)	
7100 1st Avenue South Site Seattle, Washington	
	Figure 25



\\geoenr\geoenr.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig Soil Cross-Sections.dwg TAB:Fig.26 - A-A' - NAPHTHALENE Date Exported: 08/16/19 - 14:33 by mwoods

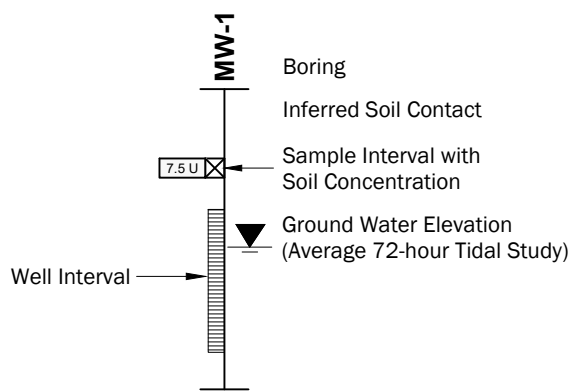
Legend

- Soil Type**
- Asphalt or Concrete
 - Interpolated Upper/Lower Fill Contact
 - Interpolated Fill/Native Contact
 - Interpolated Mean Groundwater Elevation
- Color Coding for Analytical Results**
- IHS was not detected above the SL
 - IHS was detected at a concentration between 1x and 10x the SL
 - IHS was detected at a concentration greater than 10x the SL
- Screening Cleanup Level:
 Vadose Zone Soil = 0.39 mg/kg
 Saturated Zone Soil = 0.019 mg/kg
- Approximate UST Removal Excavation Limit**
- U = Analyte not detected above the reported practical quantitation limit
 - J = Estimated analyte concentration
- UST = Underground Storage Tank
 SL = Screening Level
 mg/kg = milligrams per kilogram



Notes:

- See figure 7 for line of cross sections.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



**Naphthalene in Soil
Cross-Section A-A'**

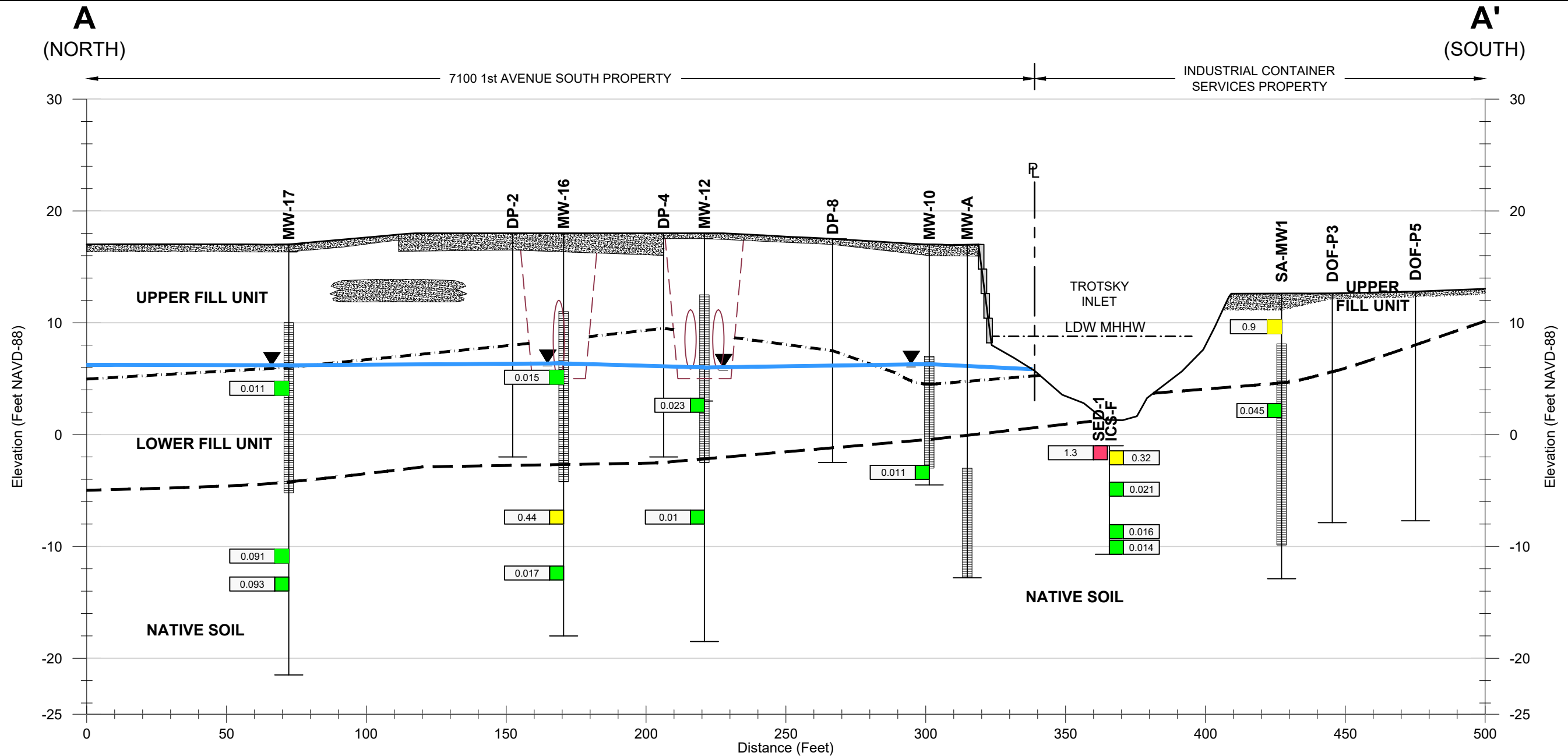
7100 1st Avenue South Site
Seattle, Washington

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Figure 26

Reference: Base CAD drawing provided by David Evans Associates (2013 Survey). Locations of historic features from D&M, 1991, SAIC 2009, and historic aerial photos (1974 and 1985).

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

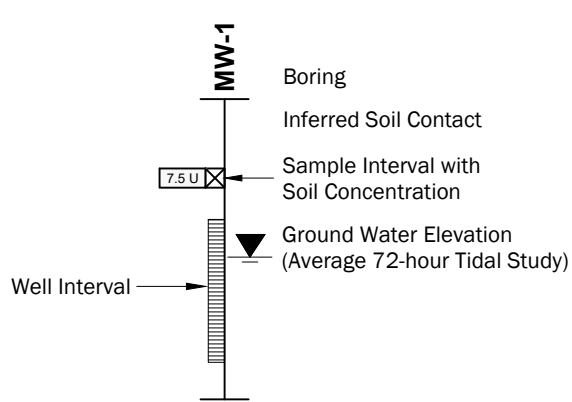


\\geoenr\geoenr.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig Soil Cross-Sections.dwg TAB:Fig.27 - A-A' - PAHs Date Exported: 08/16/19 - 14:34 by mwwoods

Notes:

- See figure 7 for line of cross sections.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Base CAD drawing provided by David Evans Associates (2013 Survey). Locations of historic features from D&M, 1991, SAIC 2009, and historic aerial photos (1974 and 1985).



Legend

Soil Type

- Asphalt or Concrete
- Interpolated Upper/Lower Fill Contact
- Interpolated Fill/Native Contact
- Interpolated Mean Groundwater Elevation

Color Coding for Analytical Results

- IHS was not detected above the SL
- IHS was detected at a concentration between 1x and 10x the SL
- IHS was detected at a concentration greater than 10x the SL

Screening Cleanup Level:
 Vadose Zone Soil = 0.19 mg/kg
 Saturated Zone Soil = 0.11 mg/kg

Approximate UST Removal Excavation Limit

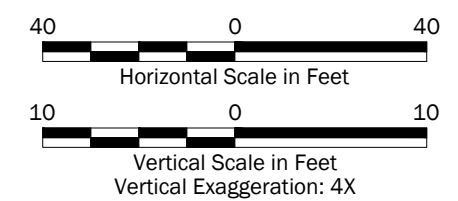
U = Analyte not detected above the reported practical quantitation limit

J = Estimated analyte concentration

UST = Underground Storage Tank

SL = Screening Level

mg/kg = milligrams per kilogram



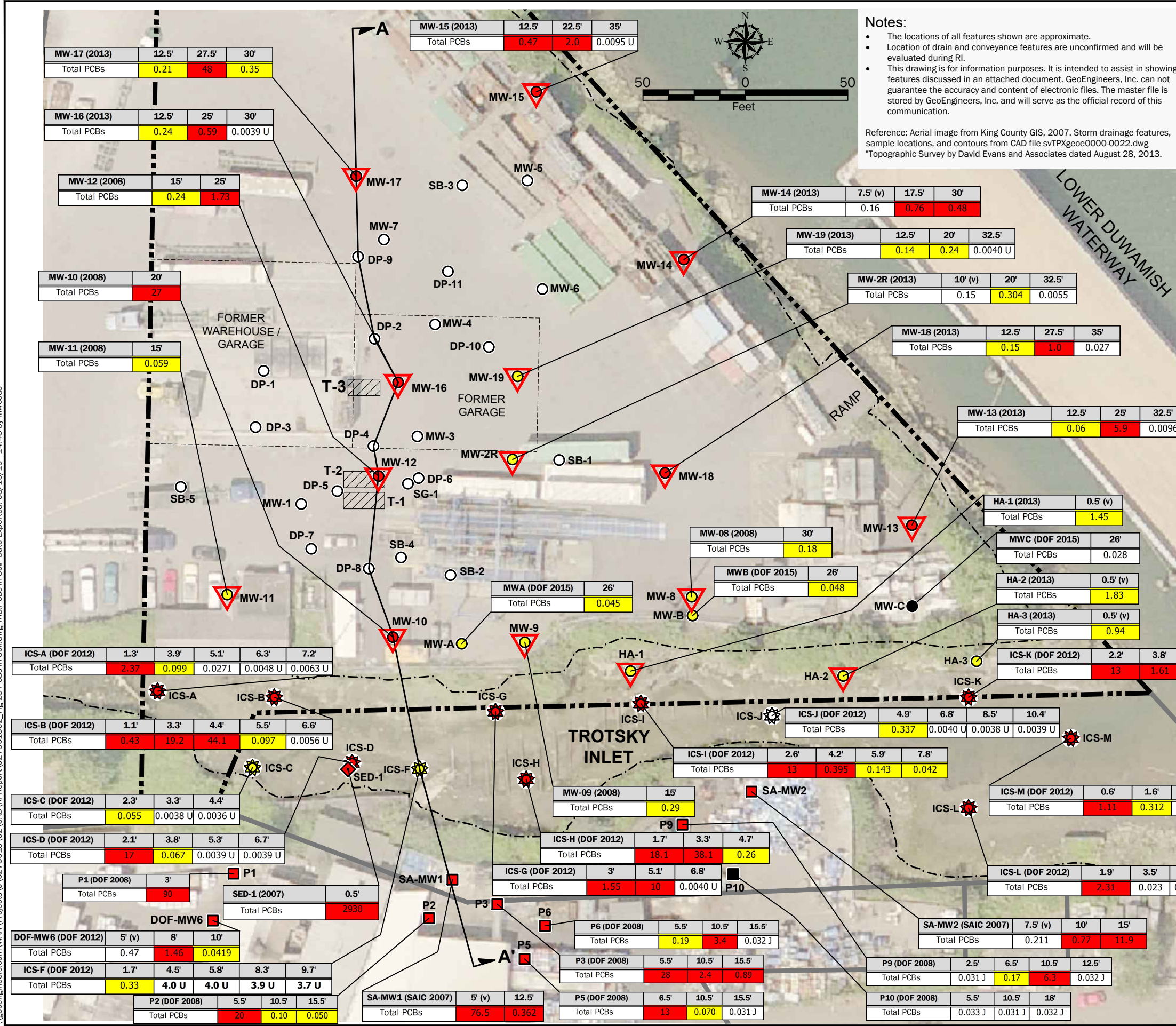
**Carcinogenic PAHs
Cross-Section A-A'**

7100 1st Avenue South Site
Seattle, Washington

Figure 27

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

\\geoengineers.com\WAN\Projects\0275015\02\CAD\RI Report\027501502_Fig 28 PCBs in Soil.dwg TAB:PCBs in Soil Date Exported: 08/16/19 - 14:48 by mwoods



Notes:

- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg
 *Topographic Survey by David Evans and Associates dated August 28, 2013.

Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Soil Sample Location (Yellow or Red indicate exceedance of IHS at location)
- Soil Sample Location Not Sampled
- Explorations Completed by Others for ICS Site RI**
- Upland Exploration (Soil Boring)
- Sediment Core Location (DOF 2012)
- Surface Sediment Sample Location (SAIC 2007)
- 7100 Site location where other PCBs exceed respective SLs

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

Data Box Explanation:

Sample Location	Sample Depth (feet bgs)
Chemical Constituent	Result (mg/Kg)

- Yellow shading indicates total PCBs was detected at a concentration between 1x and 10x the respective SL
- Red shading indicates total PCBs was detected at a concentration greater than 10x the respective SL

Bold results indicate an undetected result with a reporting limit above the respective SL

Total PCBs SL = 0.035 mg/kg (saturated zone), 0.5 mg/kg (vadose zone)

SL = Screening Level

(v) = Vadose Zone Soil Sample

U = analyte not detected above the reported practical quantitation limit

J = estimated analyte concentration

bgs = below ground surface

mg/Kg = milligrams per kilograms

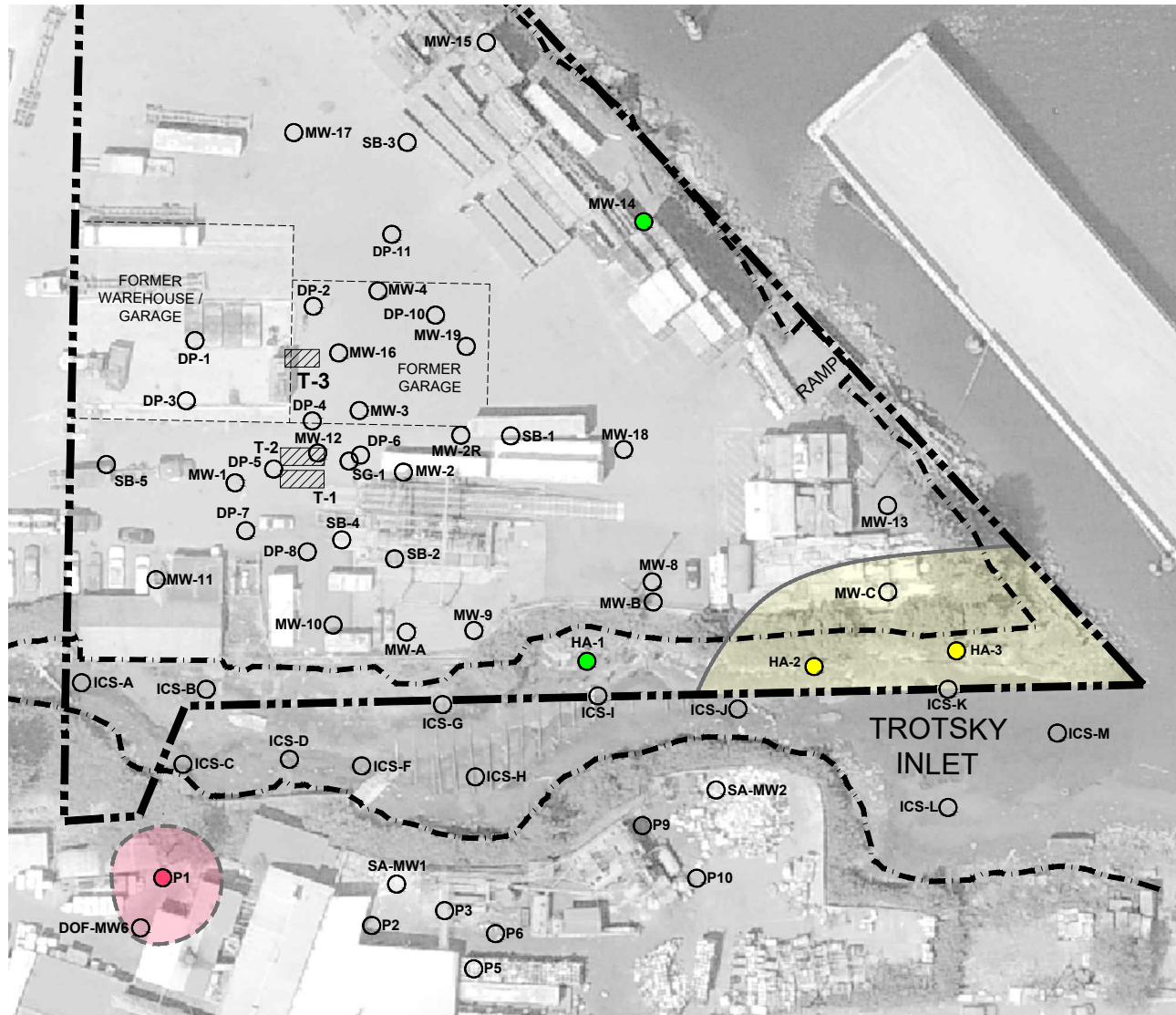
PCBs in Soil

7100 1st Avenue South Site
Seattle, Washington

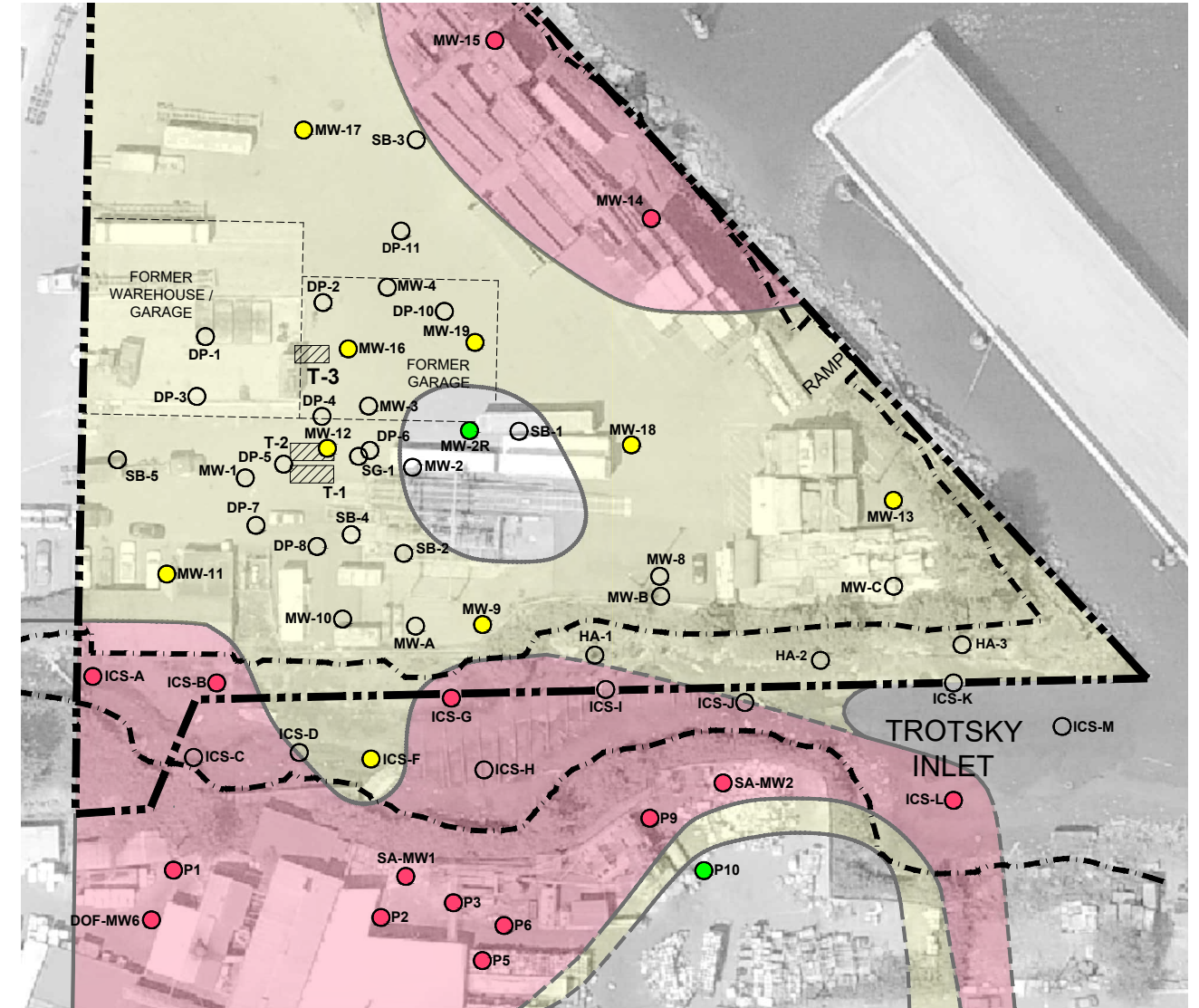
GEOENGINEERS

Figure 28

\\geoengineers.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig_18-23-27-30 Soil Unit Conditions.dwg:TAB:PCBs in Soil -29 Date Exported: 08/16/19 - 15:10 by mwoods











**Soil Analytical Results between approximately +17 and +7 Feet NAVD-88
(Approximately equivalent to 0'-10' below 7100 Site ground surface elevation)**



**Soil Analytical Results between approximately +7 and -3 Feet NAVD-88
(Approximately equivalent to 10'-20' below 7100 Site ground surface elevation)**

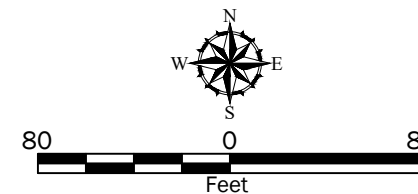
Legend


-  7100 1st Avenue South Property Boundary
 -  Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
 -  Former Underground Storage Tank (Removed)
 -  Soil Sample Location (Not Analyzed for Soil IHS)
 -  No IHSs were detected above respective SL
 -  At least one IHS was detected at a concentration between 1x and 10x the respective SL
 -  At least one IHS was detected at a concentration greater than 10x the respective SL
 -  Concentration Contours, dashed where inferred
- SL = Screening Level
IHS = Indicator Hazardous Substance

Notes:

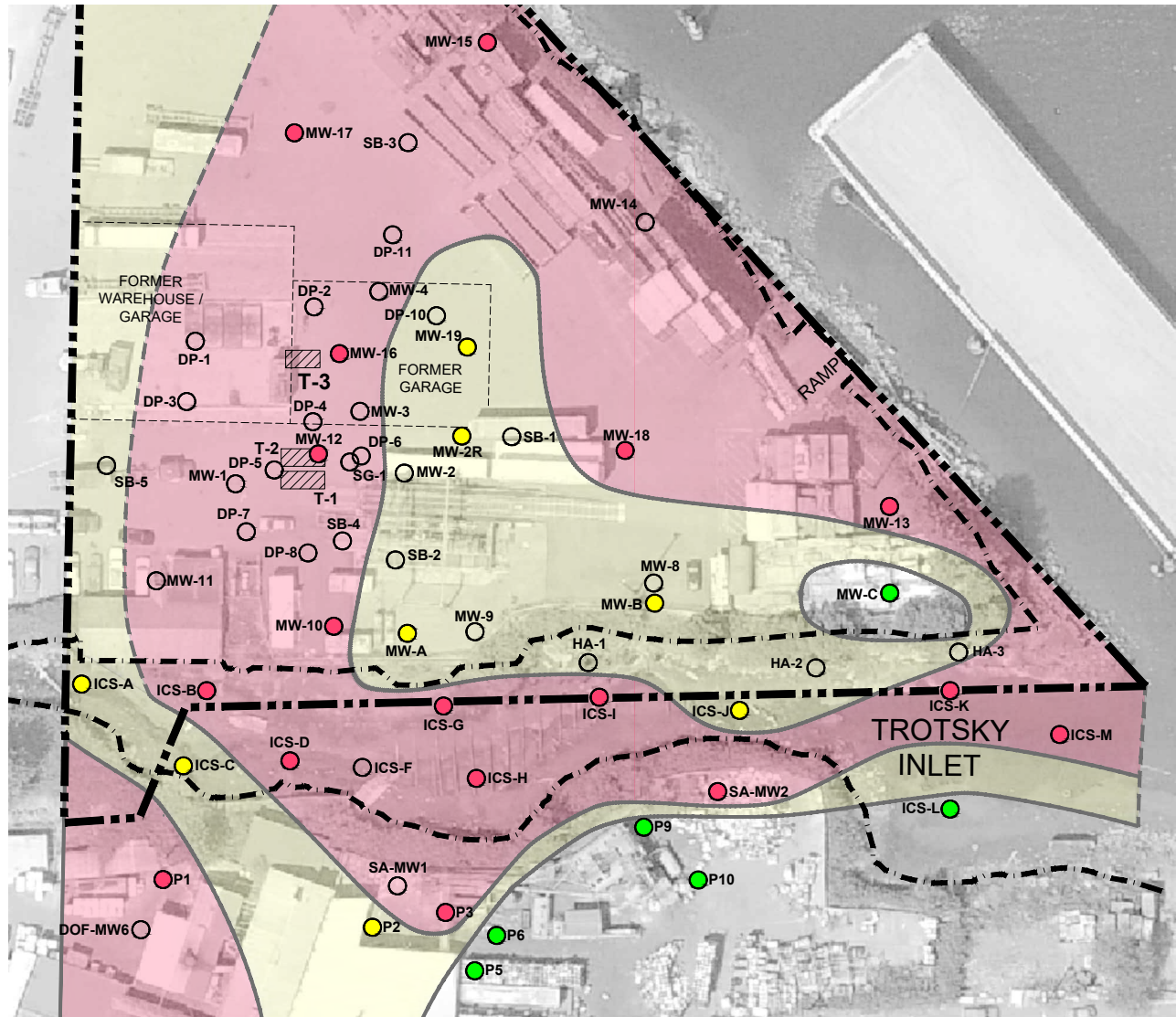
- Off-site (ICS Site) samples were included within appropriate depth intervals relative to 7100 Site ground surface based on sample elevation data provided in the 2016 Draft RI Report for the ICS Site (DOF 2016).
- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.

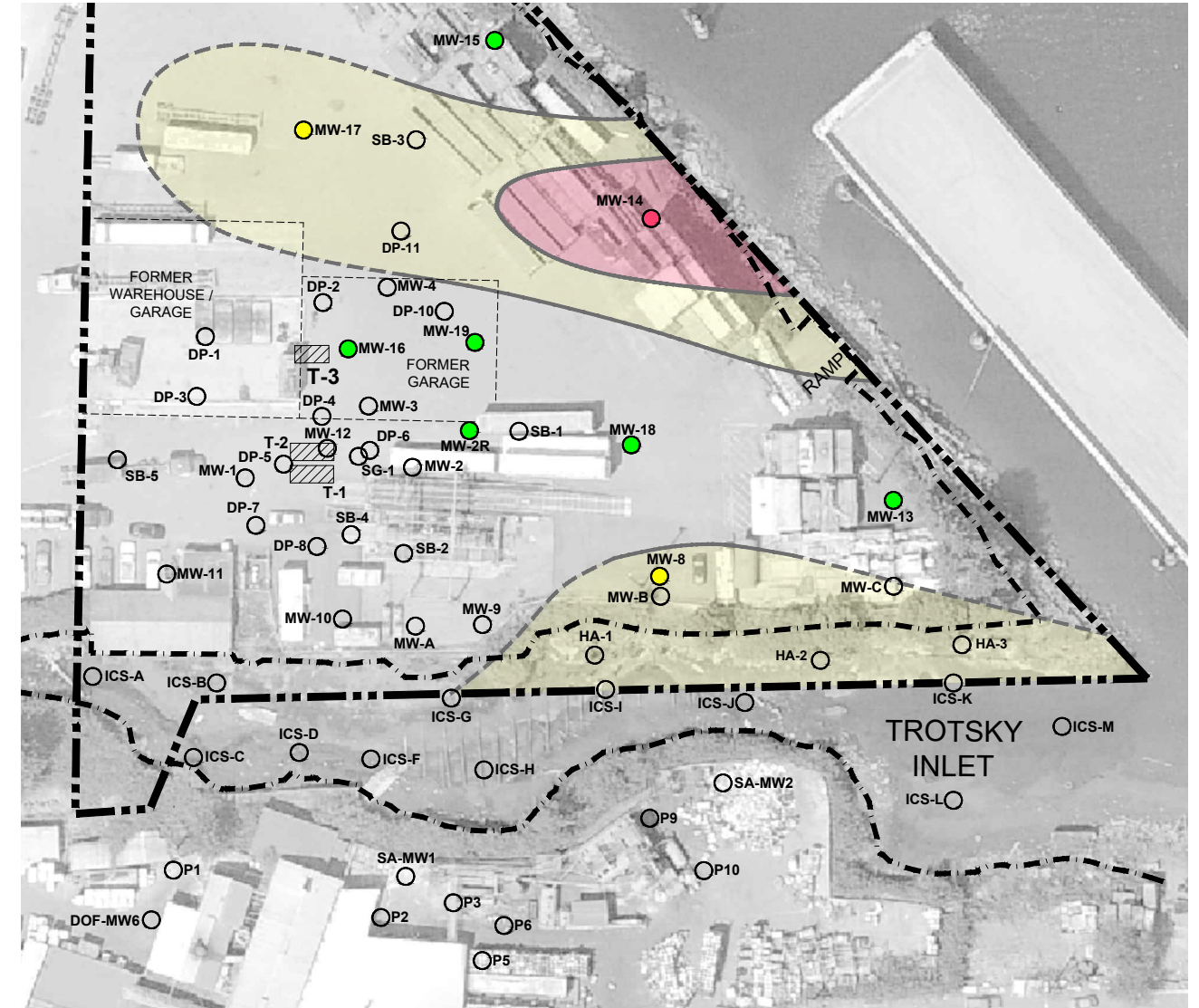


PCBs in Soil by Elevation (-3 to +17 Feet NAVD-88)	
7100 1st Avenue South Site Seattle, Washington	
	Figure 29

\\geoengineers.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig_18-23-27-30 Soil Unit Conditions.dwg:TAB:PCBs in Soil -30 Date Exported: 08/16/19 - 15:11 by mwoods



**Soil Analytical Results between approximately -3 and -13 Feet NAVD-88
(Approximately equivalent to 20'-30' below 7100 Site ground surface elevation)**



**Soil Analytical Results below -13 Feet NAVD-88
(Approximately equivalent to greater than 30' below 7100 Site ground surface elevation)**

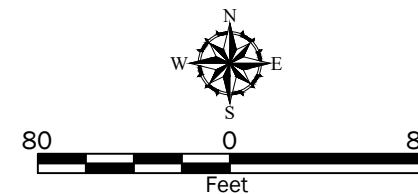
Legend

- 7100 1st Avenue South Property Boundary
 - Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
 - Former Underground Storage Tank (Removed)
 - Soil Sample Location (Not Analyzed for Soil IHS)
 - No IHSs were detected above respective SL
 - At least one IHS was detected at a concentration between 1x and 10x the respective SL
 - At least one IHS was detected at a concentration greater than 10x the respective SL
 - Concentration Contours, dashed where inferred
- SL = Screening Level
IHS = Indicator Hazardous Substance

Notes:

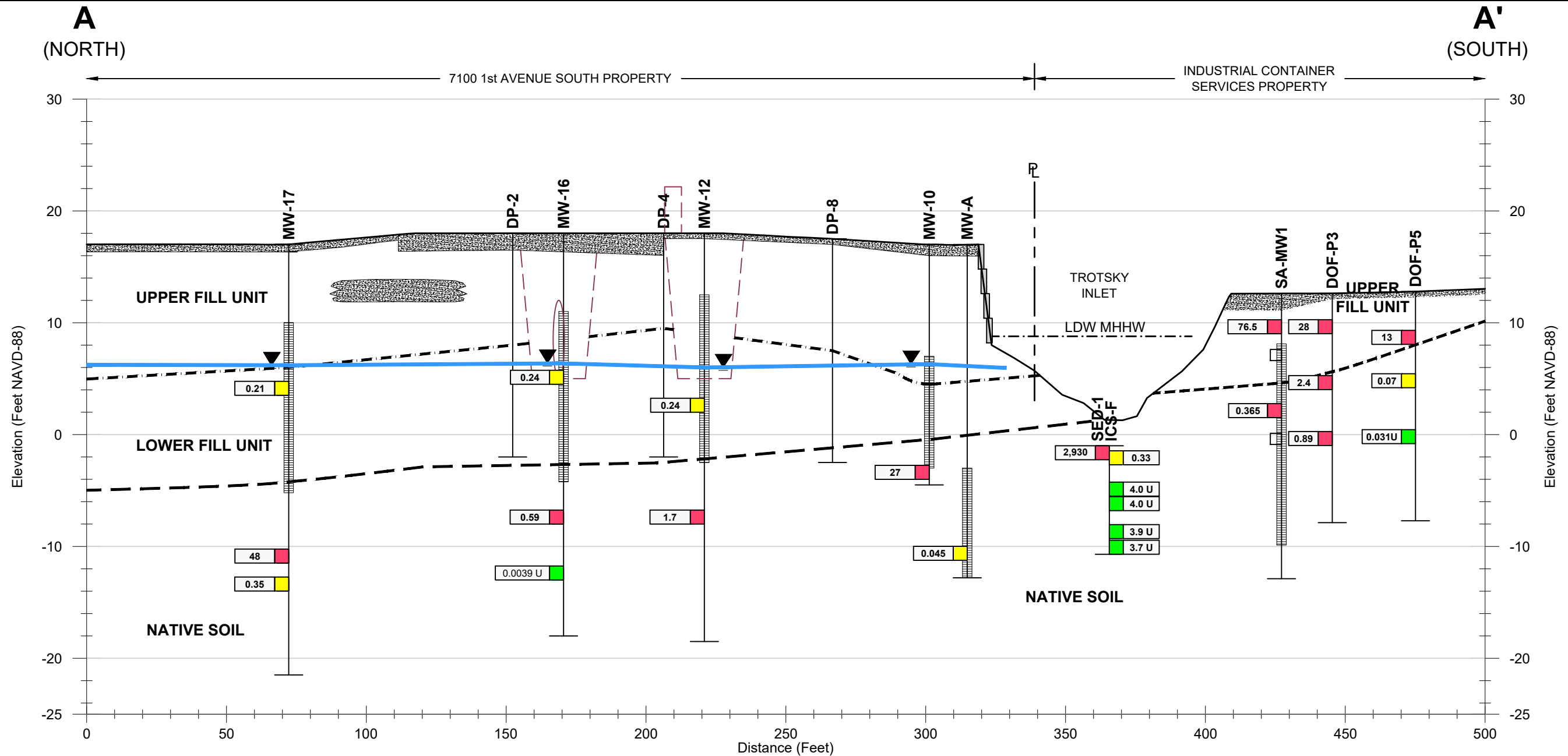
- Off-site (ICS Site) samples were included within appropriate depth intervals relative to 7100 Site ground surface based on sample elevation data provided in the 2016 Draft RI Report for the ICS Site (DOF 2016).
- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeo0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.



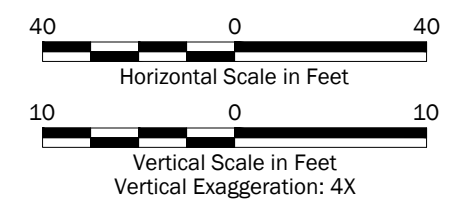
PCBs in Soil by Elevation (Below -3 Feet NAVD-88)	
7100 1st Avenue South Site Seattle, Washington	
	Figure 30

\\geoenr\geoenr.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig 31_A-A_TOTL PCBs Date Exported: 08/16/19 - 15:21 by mwwoods



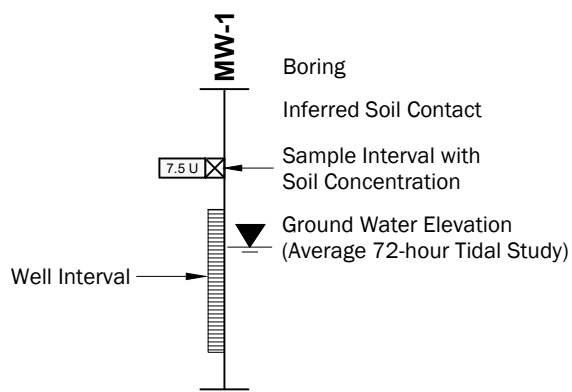
Legend

- Soil Type**
- Asphalt or Concrete
 - Interpolated Upper/Lower Fill Contact
 - Interpolated Fill/Native Contact
 - Interpolated Mean Groundwater Elevation
- Color Coding for Analytical Results**
- IHS was not detected above the SL
 - IHS was detected at a concentration between 1x and 10x the SL
 - IHS was detected at a concentration greater than 10x the SL
- Screening Cleanup Level:
 Vadose Zone Soil = 0.50 mg/kg
 Saturated Zone Soil = 0.035 mg/kg
- Other Symbols**
- Approximate UST Removal Excavation Limit
 - U** = Analyte not detected above the reported practical quantitation limit
 - J** = Estimated analyte concentration
 - UST** = Underground Storage Tank
 - SL** = Screening Level
 - mg/kg = milligrams per kilogram



Notes:

- See figure 7 for line of cross sections.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



Reference: Base CAD drawing provided by David Evans Associates (2013 Survey). Locations of historic features from D&M, 1991, SAIC 2009, and historic aerial photos (1974 and 1985).

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

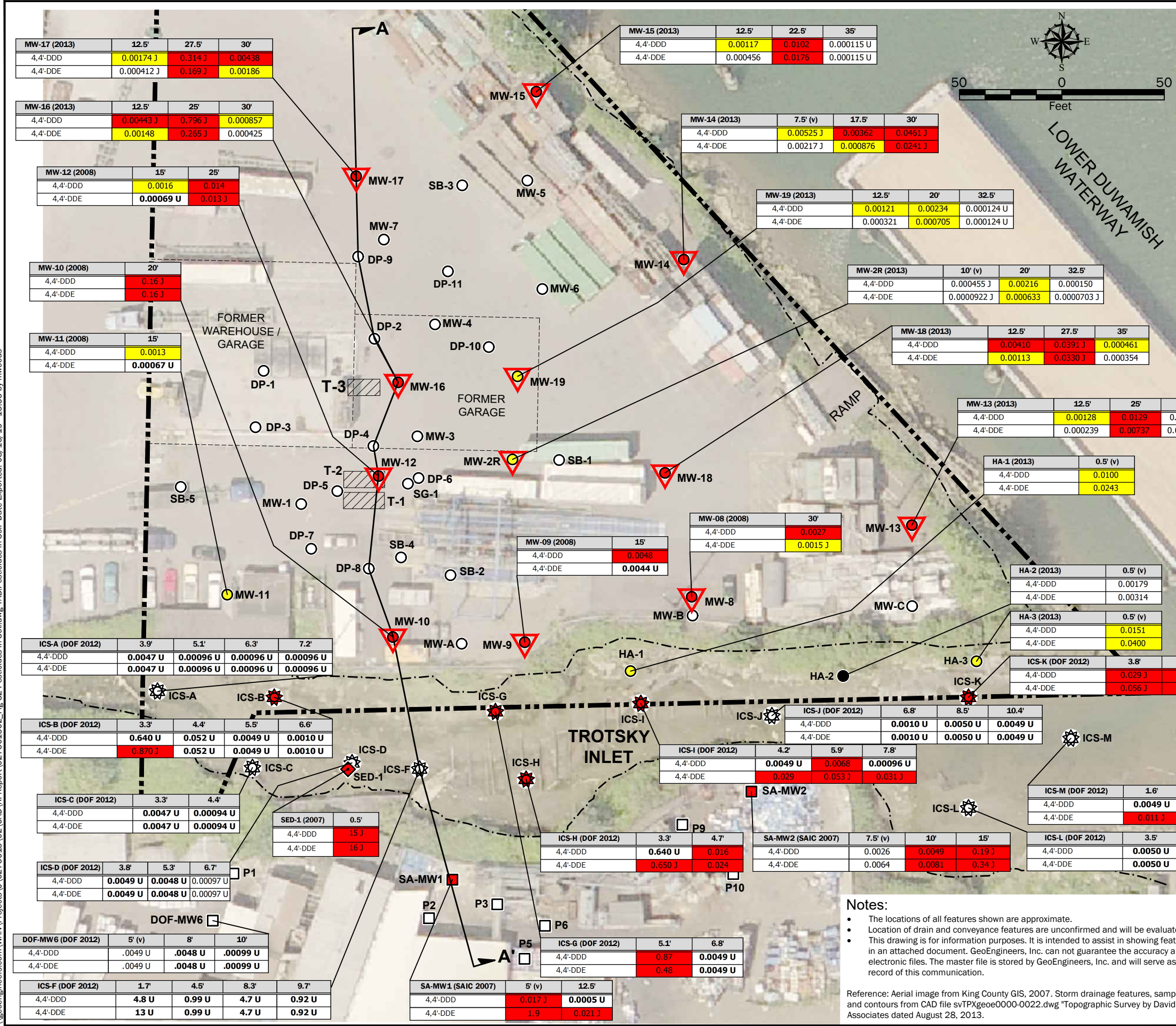
**PCBs in Soil
Cross-Section A-A'**

7100 1st Avenue South Site
Seattle, Washington

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Figure 31

\\geoengineers.com\WAN\Projects\0275015\02\CAD\RI Report\027501502_Fig 32 Pesticides in Soil.dwg TAB:Pesticides in Soil Date Exported: 08/16/19 - 15:55 by mwwoods



Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Soil Sample Location (Yellow or Red indicate exceedance of IHS at location)
- Soil Sample Location Not Sampled
- Explorations Completed by Others for ICS Site RI
- Upland Exploration (Soil Boring)
- Sediment Core Location (DOF 2012)
- Surface Sediment Sample Location (SAIC 2007)
- 7100 Site location where other Pesticides exceed respective SLs

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.

Data Box Explanation:

Sample Location	Sample Depth (feet bgs)
Chemical Constituent	Result (mg/Kg)

Yellow shading indicates Pesticides were detected at a concentration between 1x and 10x the respective SL

Red shading indicates Pesticides were detected at a concentration greater than 10x the respective SL

Bold results indicate an undetected result with a reporting limit above the respective SL

4,4'-DDD SL = 0.00026 mg/kg (saturated zone), 0.0052 mg/kg (vadose zone)

4,4'-DDE SL = 0.00049 mg/kg (saturated zone), 0.0098 mg/kg (vadose zone)

SL = Screening Level

(v) = Vadose Zone Soil Sample

U = analyte not detected above the reported practical quantitation limit

J = estimated analyte concentration

bgs = below ground surface

mg/Kg = milligrams per kilograms

Notes:

- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
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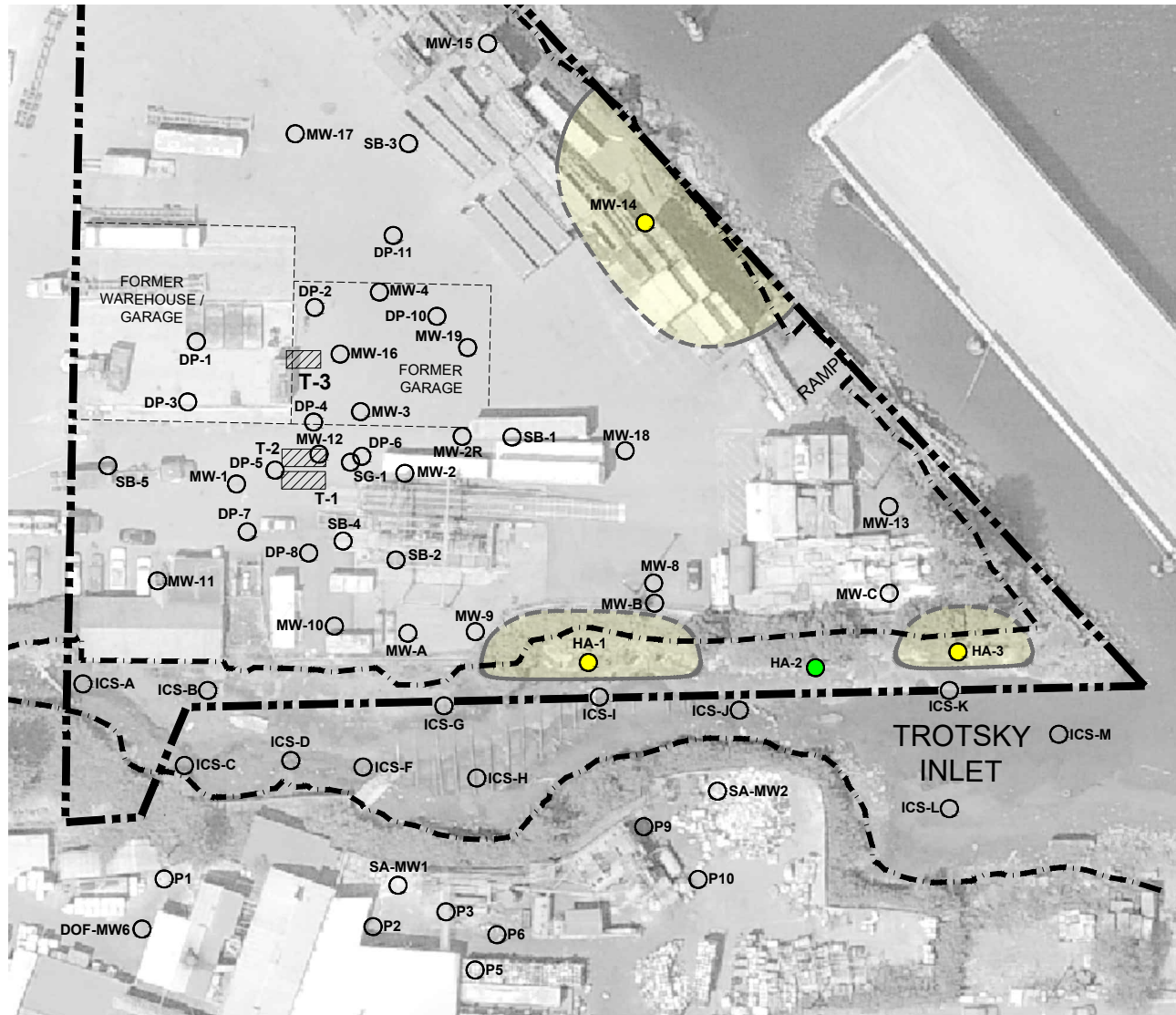
Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPX\geoe0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.

Pesticides in Soil

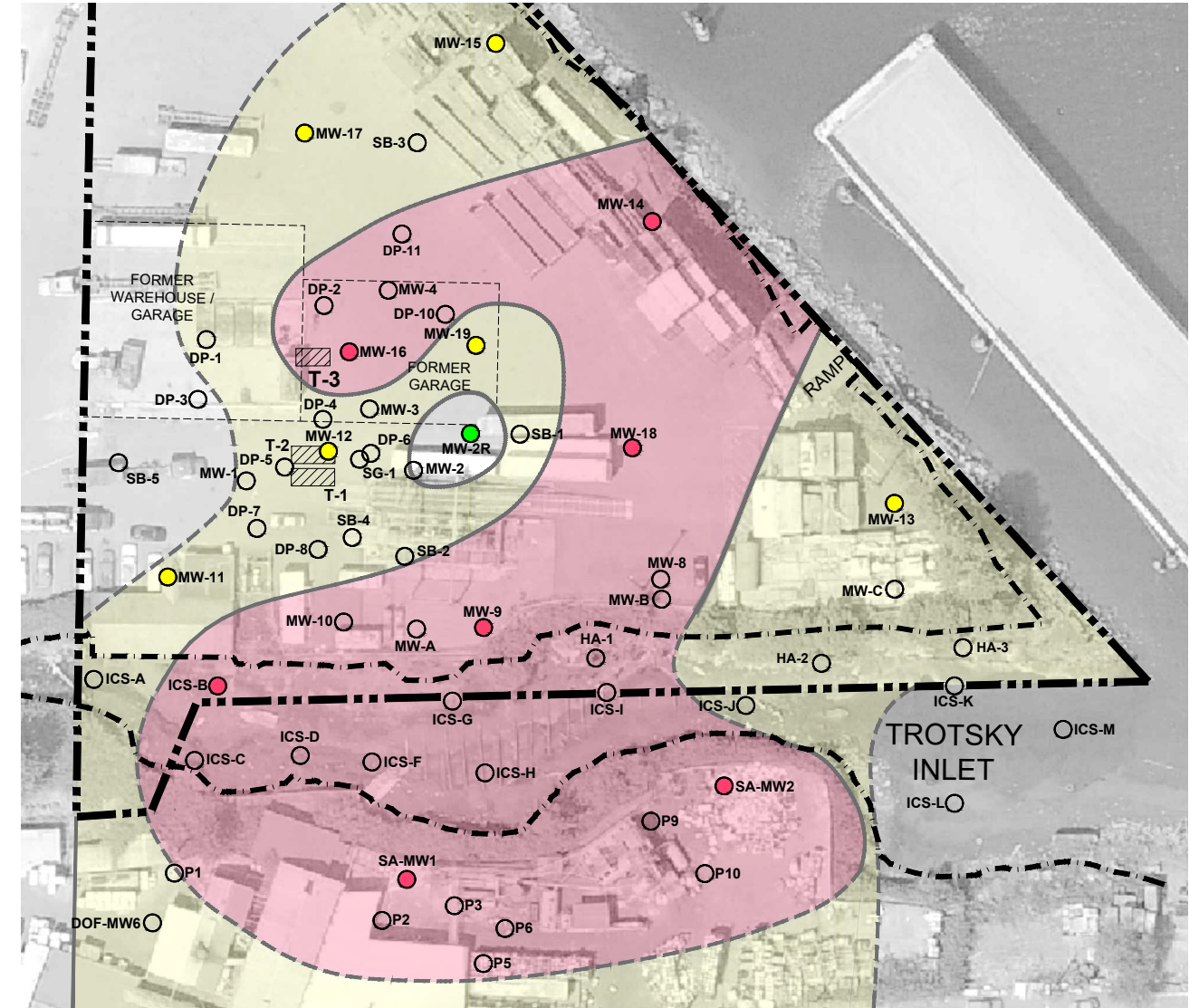
7100 1st Avenue South Site
Seattle, Washington

Figure 32

\\geoengineers.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig_18-23-27-30 Soil Unit Conditions.dwg TAB:Pesticides in Soil - 33 Date Exported: 08/16/19 - 16:00 by mwoods











**Soil Analytical Results between approximately +17 and +7 Feet NAVD-88
(Approximately equivalent to 0'-10' below 7100 Site ground surface elevation)**



**Soil Analytical Results between approximately +7 and -3 Feet NAVD-88
(Approximately equivalent to 10'-20' below 7100 Site ground surface elevation)**

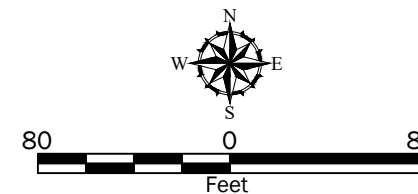
Legend


-  7100 1st Avenue South Property Boundary
-  Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
-  Former Underground Storage Tank (Removed)
-  Soil Sample Location (Not Analyzed for Soil IHS)
-  No IHSs were detected above respective SL
-  At least one IHS was detected at a concentration between 1x and 10x the respective SL
-  At least one IHS was detected at a concentration greater than 10x the respective SL
-  Concentration Contours, dashed where inferred
- SL = Screening Level
- IHS = Indicator Hazardous Substance

Notes:

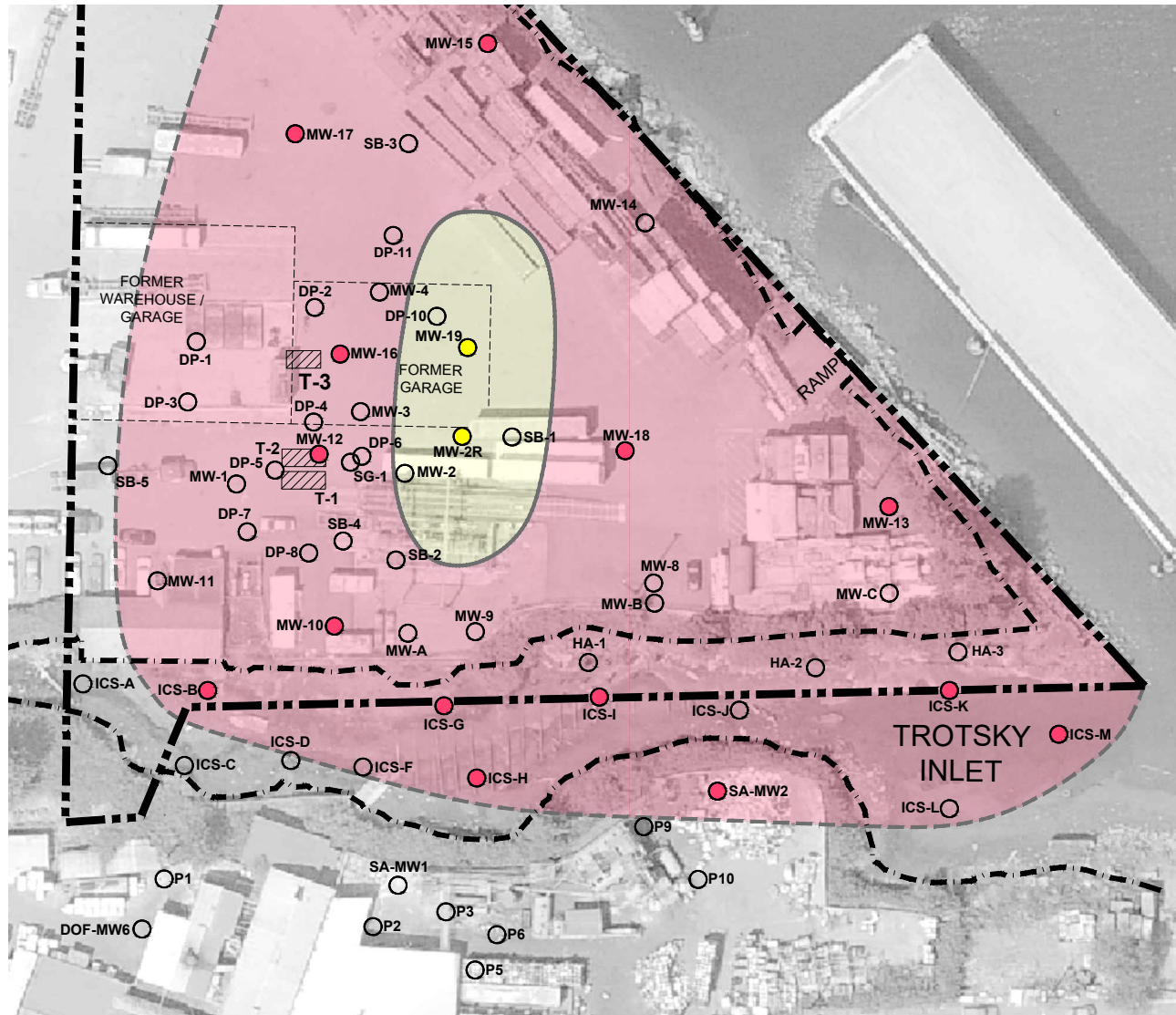
- Off-site (ICS Site) samples were included within appropriate depth intervals relative to 7100 Site ground surface based on sample elevation data provided in the 2016 Draft RI Report for the ICS Site (DOF 2016).
- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.



4,4' - DDD and 4,4' -DDE in Soil by Elevation (-3 to +17 Feet NAVD-88)	
7100 1st Avenue South Site Seattle, Washington	
	Figure 33

\\geoengineers.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig 18-23-27-30 Soil Unit Conditions.dwg TAB:Pesticides in Soil - 34 Date Exported: 08/16/19 - 16:02 by mwoods



**Soil Analytical Results between approximately -3 and -13 Feet NAVD-88
(Approximately equivalent to 20'-30' below 7100 Site ground surface elevation)**



**Soil Analytical Results below -13 Feet NAVD-88
(Approximately equivalent to greater than 30' below 7100 Site ground surface elevation)**

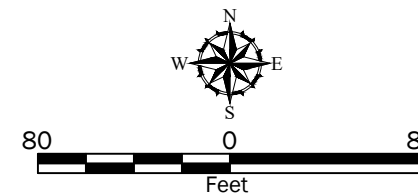
Legend

- 7100 1st Avenue South Property Boundary
 - Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
 - Former Underground Storage Tank (Removed)
 - Soil Sample Location (Not Analyzed for Soil IHS)
 - No IHSs were detected above respective SL
 - At least one IHS was detected at a concentration between 1x and 10x the respective SL
 - At least one IHS was detected at a concentration greater than 10x the respective SL
 - Concentration Contours, dashed where inferred
- SL = Screening Level
IHS = Indicator Hazardous Substance

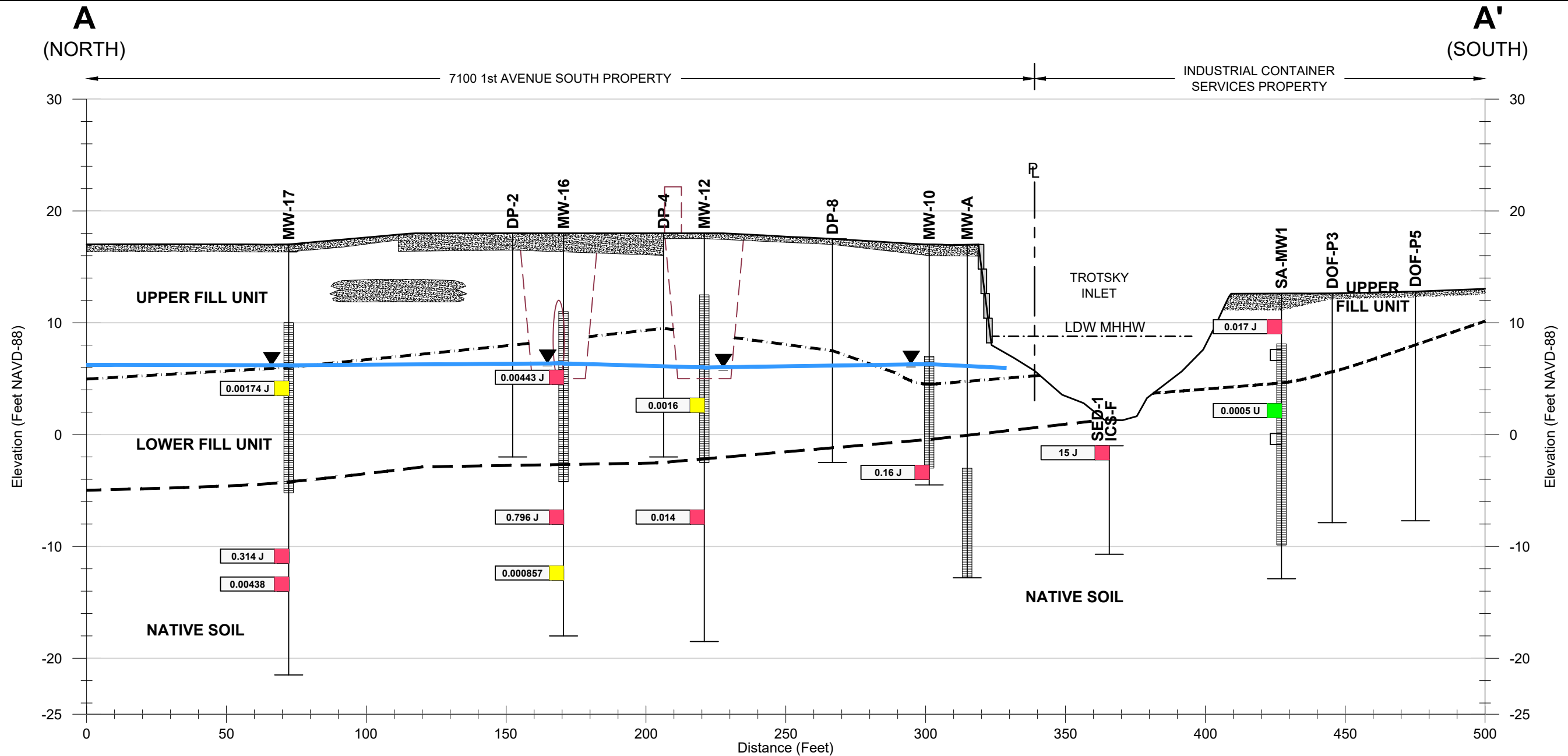
Notes:

- Off-site (ICS Site) samples were included within appropriate depth intervals relative to 7100 Site ground surface based on sample elevation data provided in the 2016 Draft RI Report for the ICS Site (DOF 2016).
- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg "Topographic Survey by David Evans and Associates dated August 28, 2013.



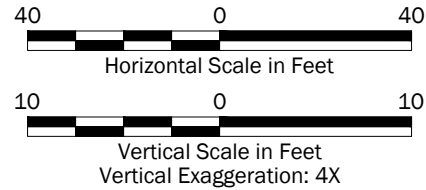
4,4' -DDD and 4,4' -DDE Pesticides in Soil by Elevation (Below -3 Feet NAVD-88)	
7100 1st Avenue South Site Seattle, Washington	
	Figure 34



\\geoenr\geoenr.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig 31_35-36 Soil Cross-Sections.dwg TAB:Fig 35 - A-A' - DDD Date Exported: 08/16/19 - 16:03 by mwwoods

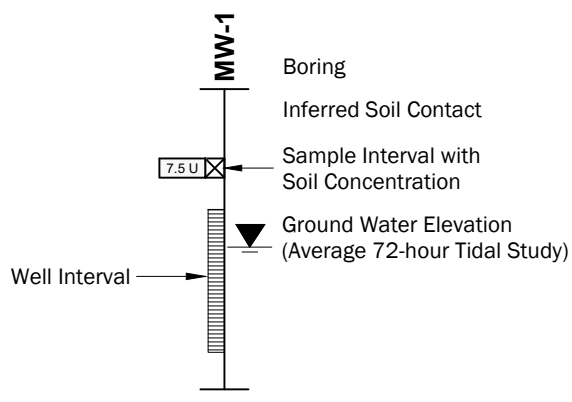
Legend

- Soil Type**
- Asphalt or Concrete
 - Interpolated Upper/Lower Fill Contact
 - Interpolated Fill/Native Contact
 - Interpolated Mean Groundwater Elevation
- Color Coding for Analytical Results**
- IHS was not detected above the SL
 - IHS was detected at a concentration between 1x and 10x the SL
 - IHS was detected at a concentration greater than 10x the SL
- Screening Cleanup Level:
 Vadose Zone Soil = 0.0052 mg/kg
 Saturated Zone Soil = 0.00026 mg/kg
- Approximate UST Removal Excavation Limit**
- U = Analyte not detected above the reported practical quantitation limit
 - J = Estimated analyte concentration
- UST = Underground Storage Tank
 SL = Screening Level
 mg/kg = milligrams per kilogram



Notes:

- See figure 7 for line of cross sections.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



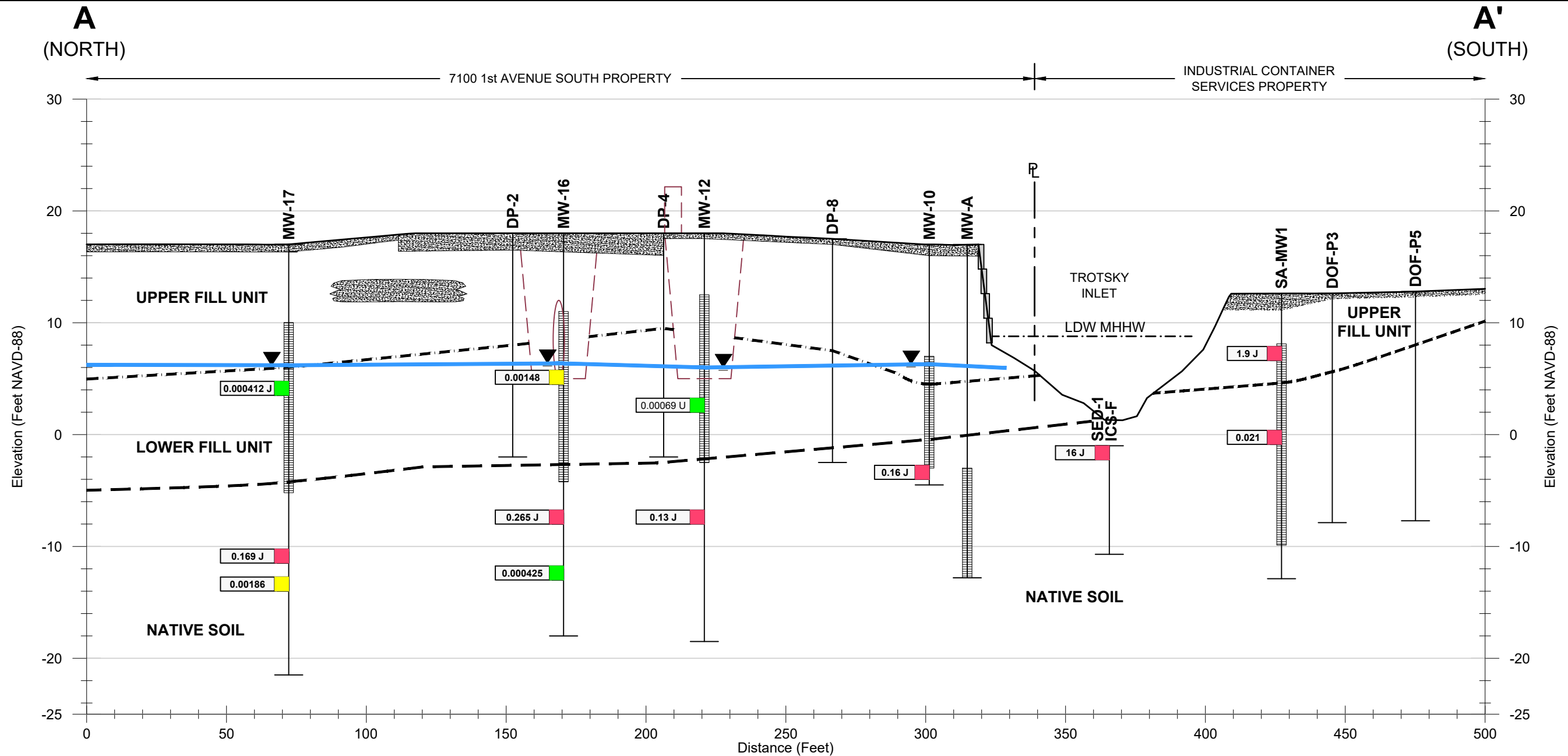
**4,4'-DDD in Soil
Cross-Section A-A'**

7100 1st Avenue South Site
Seattle, Washington

Figure 35

Reference: Base CAD drawing provided by David Evans Associates (2013 Survey). Locations of historic features from D&M, 1991, SAIC 2009, and historic aerial photos (1974 and 1985).

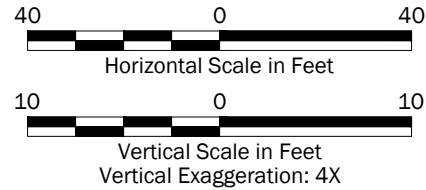
Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.



\\geoenr\geoenr\Projects\0275015\02\CAD\RI Report\027501502_Fig 31_35-36 Soil Cross-Sections.dwg TAB:A-A' - DDE Date Exported: 08/16/19 - 16:56 by mwwoods

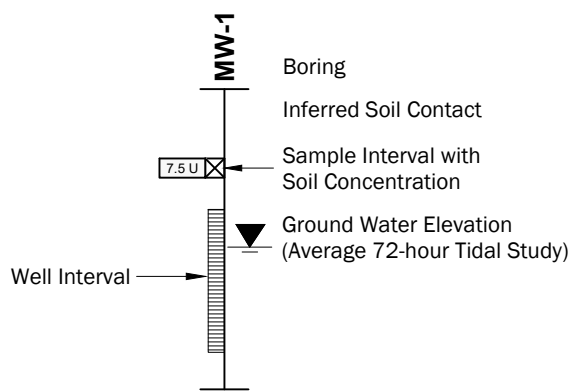
Legend

- Soil Type**
- Asphalt or Concrete
 - Interpolated Upper/Lower Fill Contact
 - Interpolated Fill/Native Contact
 - Interpolated Mean Groundwater Elevation
- Color Coding for Analytical Results**
- IHS was not detected above the SL
 - IHS was detected at a concentration between 1x and 10x the SL
 - IHS was detected at a concentration greater than 10x the SL
- Screening Cleanup Level:
 Vadose Zone Soil = 0.0098 mg/kg
 Saturated Zone Soil = 0.00049 mg/kg
- Other Symbols**
- Approximate UST Removal Excavation Limit
 - U = Analyte not detected above the reported practical quantitation limit
 - J = Estimated analyte concentration
 - UST = Underground Storage Tank
 - SL = Screening Level
 - mg/kg = milligrams per kilogram



Notes:

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.



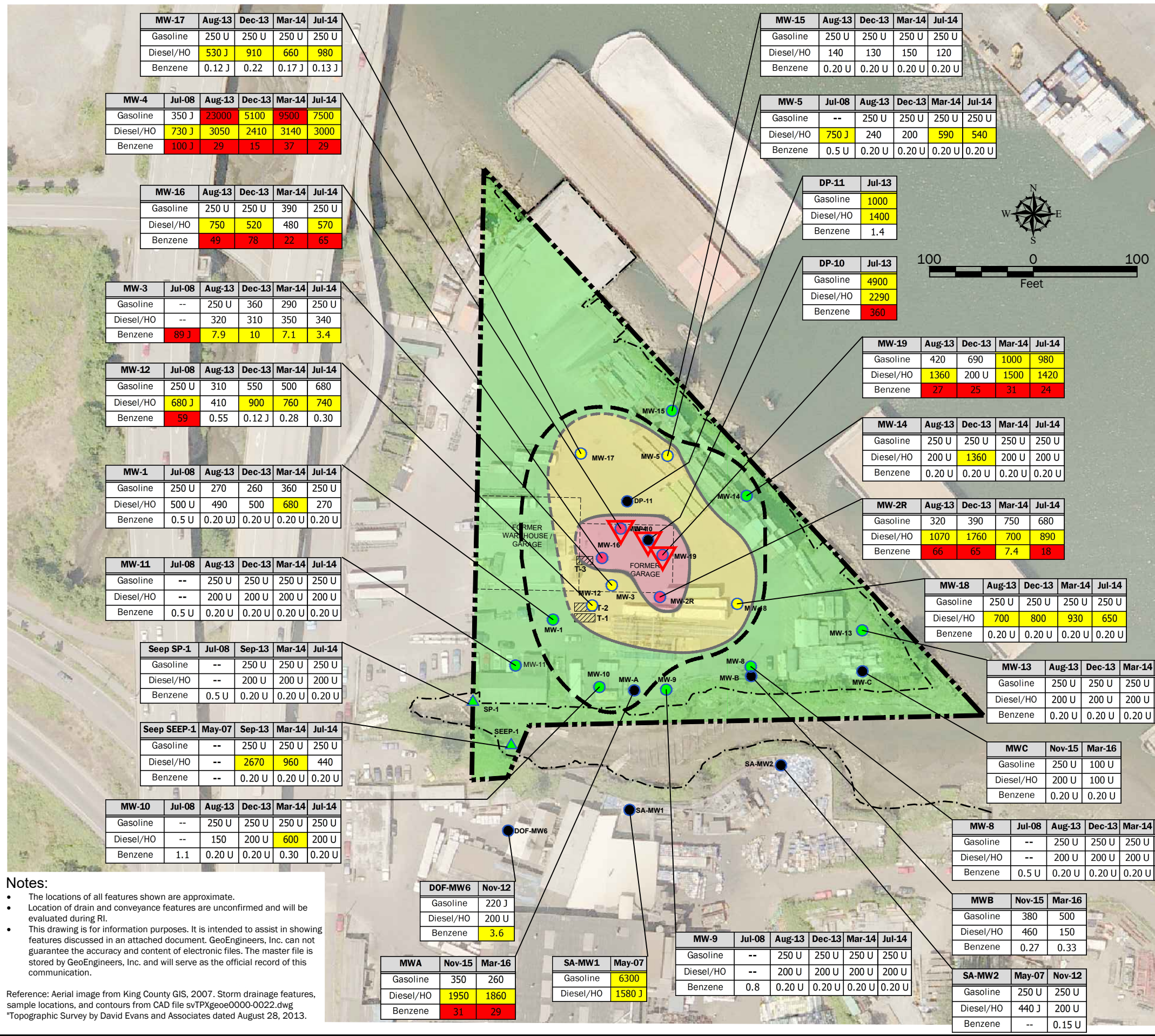
**4-4'-DDE in Soil
Cross-Section A-A'**

7100 1st Avenue South Site
Seattle, Washington

Figure 36

Reference: Base CAD drawing provided by David Evans Associates (2013 Survey). Locations of historic features from D&M, 1991, SAIC 2009, and historic aerial photos (1974 and 1985).

Note: ICS RI Samples were not screened against 7100 Site RI SLs for comparison of concentrations only. Applicable SLs for ICS samples will be developed in a separate RI for the ICS site.



MW-17	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	250 U	250 U	250 U
Diesel/HO	530 J	910	660	980
Benzene	0.12 J	0.22	0.17 J	0.13 J

MW-4	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	350 J	23000	5100	9500	7500
Diesel/HO	730 J	3050	2410	3140	3000
Benzene	100 J	29	15	37	29

MW-16	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	250 U	390	250 U
Diesel/HO	750	520	480	570
Benzene	49	78	22	65

MW-3	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	--	250 U	360	290	250 U
Diesel/HO	--	320	310	350	340
Benzene	89 J	7.9	10	7.1	3.4

MW-12	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	310	550	500	680
Diesel/HO	680 J	410	900	760	740
Benzene	59	0.55	0.12 J	0.28	0.30

MW-1	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	270	260	360	250 U
Diesel/HO	500 U	490	500	680	270
Benzene	0.5 U	0.20 U	0.20 U	0.20 U	0.20 U

MW-11	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U	250 U
Diesel/HO	--	200 U	200 U	200 U	200 U
Benzene	0.5 U	0.20 U	0.20 U	0.20 U	0.20 U

Seep SP-1	Jul-08	Sep-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U
Diesel/HO	--	200 U	200 U	200 U
Benzene	0.5 U	0.20 U	0.20 U	0.20 U

Seep SEEP-1	May-07	Sep-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U
Diesel/HO	--	2670	960	440
Benzene	--	0.20 U	0.20 U	0.20 U

MW-10	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U	250 U
Diesel/HO	--	150	200 U	600	200 U
Benzene	1.1	0.20 U	0.20 U	0.30	0.20 U

DOF-MW6	Nov-12
Gasoline	220 J
Diesel/HO	200 U
Benzene	3.6

MWA	Nov-15	Mar-16
Gasoline	350	260
Diesel/HO	1950	1860
Benzene	31	29

SA-MW1	May-07
Gasoline	6300
Diesel/HO	1580 J

MW-9	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U	250 U
Diesel/HO	--	200 U	200 U	200 U	200 U
Benzene	0.8	0.20 U	0.20 U	0.20 U	0.20 U

MW-15	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	250 U	250 U	250 U
Diesel/HO	140	130	150	120
Benzene	0.20 U	0.20 U	0.20 U	0.20 U

MW-5	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U	250 U
Diesel/HO	750 J	240	200	590	540
Benzene	0.5 U	0.20 U	0.20 U	0.20 U	0.20 U

DP-11	Jul-13
Gasoline	1000
Diesel/HO	1400
Benzene	1.4

DP-10	Jul-13
Gasoline	4900
Diesel/HO	2290
Benzene	360

MW-19	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	420	690	1000	980
Diesel/HO	1360	200 U	1500	1420
Benzene	27	25	31	24

MW-14	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	250 U	250 U	250 U
Diesel/HO	200 U	1360	200 U	200 U
Benzene	0.20 U	0.20 U	0.20 U	0.20 U

MW-2R	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	320	390	750	680
Diesel/HO	1070	1760	700	890
Benzene	66	65	7.4	18

MW-18	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	250 U	250 U	250 U
Diesel/HO	700	800	930	650
Benzene	0.20 U	0.20 U	0.20 U	0.20 U

MW-13	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	250 U	250 U	250 U	250 U
Diesel/HO	200 U	200 U	200 U	200 U
Benzene	0.20 U	0.20 U	0.20 U	0.20 U

MWC	Nov-15	Mar-16
Gasoline	250 U	100 U
Diesel/HO	200 U	100 U
Benzene	0.20 U	0.20 U

MW-8	Jul-08	Aug-13	Dec-13	Mar-14	Jul-14
Gasoline	--	250 U	250 U	250 U	250 U
Diesel/HO	--	200 U	200 U	200 U	200 U
Benzene	0.5 U	0.20 U	0.20 U	0.20 U	0.20 U

MWB	Nov-15	Mar-16
Gasoline	380	500
Diesel/HO	460	150
Benzene	0.27	0.33

SA-MW2	May-07	Nov-12
Gasoline	250 U	250 U
Diesel/HO	440 J	200 U
Benzene	--	0.15 U

Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway
- Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Groundwater Sample Location
- Seep Sample Location
- Sample location was not sampled during July 2014 sampling event
- IHS was not detected above respective SL during July 2014 sampling event
- IHS was detected at a concentration between 1x and 10x the respective SL during July 2014 sampling event
- IHS was detected at a concentration greater than 10x the respective SL during July 2014 sampling event
- 7100 Site location where other VOCs exceed respective SLs

Data Box Explanation:

Sample Location	Sample Date
Chemical Constituent	Result (µg/L)

- Concentration Contours, dashed where inferred. Contours based on July 2014 sampling event.
- Footprint of Historical SL Exceedances
- Yellow shading indicates Gasoline, Diesel/HO, or Benzene was detected at a concentration between 1x and 10x the respective SL
- Red shading indicates Gasoline, Diesel/HO, or Benzene was detected at a concentration greater than 10x the respective SL.

Bold results indicate an undetected result with a reporting limit above the respective SL

Gasoline-range hydrocarbons SL = 800 µg/L
 Diesel-range hydrocarbons SL = 500 µg/L
 Benzene SL = 1.6 µg/L

Diesel/HO = Sum of Diesel and Heavy Oil Range Petroleum Hydrocarbons

U = analyte not detected above the reported SL

J = estimated analyte concentration

SL = Screening Level

IHS = Indicator Hazardous Substance

µg/L = micrograms per liter

Notes:

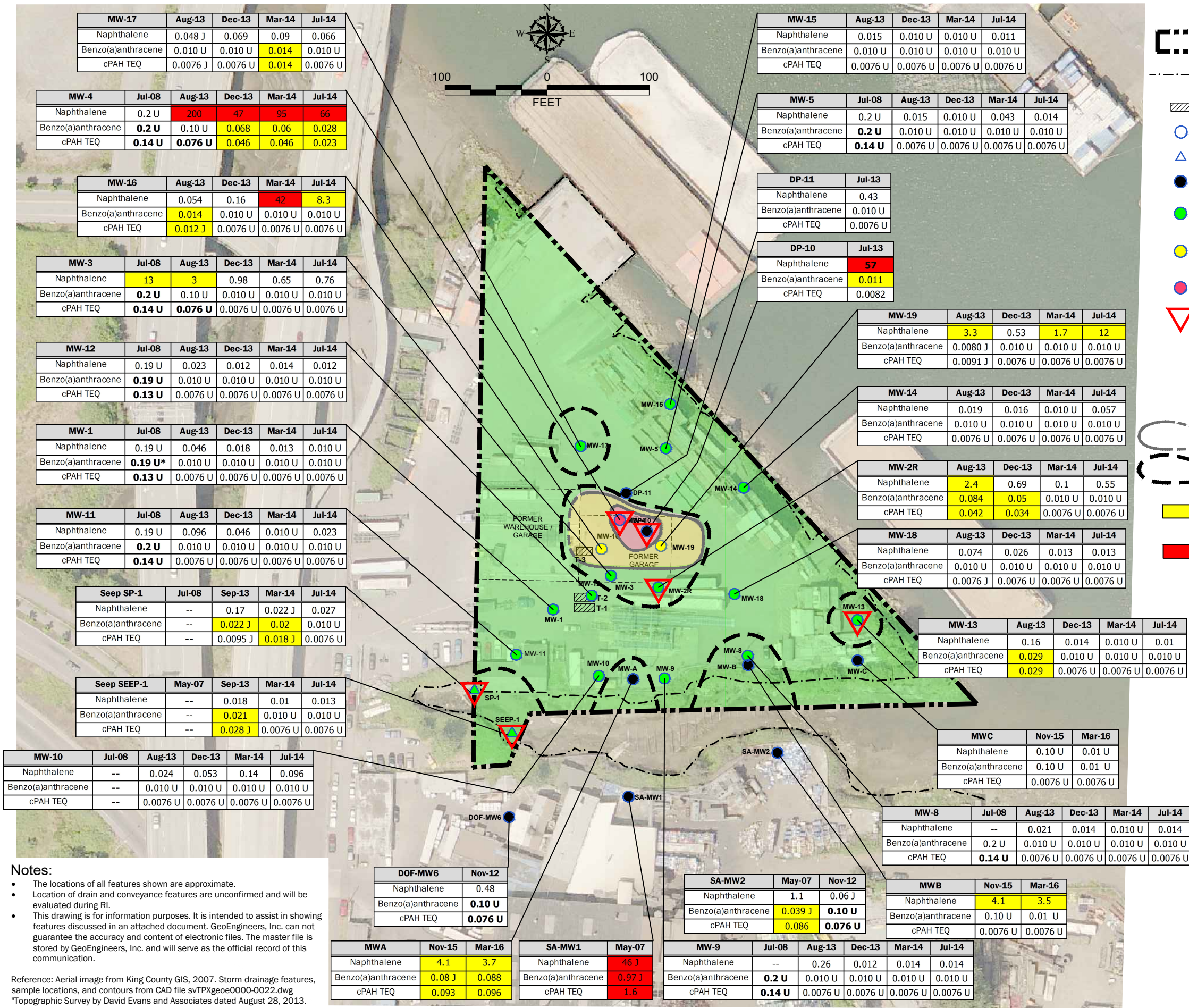
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Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeo0000-0022.dwg
 Topographic Survey by David Evans and Associates dated August 28, 2013.

**Petroleum Hydrocarbons and VOCs
in Groundwater**

7100 1st Avenue South Site
Seattle, Washington

Figure 37



Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Groundwater Sample Location
- Seep Sample Location
- Sample location was not sampled during July 2014 sampling event
- IHS was not detected above respective SL during July 2014 sampling event
- IHS was detected at a concentration between 1x and 10x the respective SL during July 2014 sampling event
- IHS was detected at a concentration greater than 10x the respective SL during July 2014 sampling event
- 7100 Site location where other PAHs or SVOCs exceed respective SLs

Data Box Explanation:

Sample Location	Sample Date
Chemical Constituent	Result (µg/L)

- Concentration Contours, dashed where inferred. Contours based on July 2014 sampling event.
- Footprint of Historical SL Exceedances
- Yellow shading indicates Naphthalene, B(a)a, or CPAH TEQ was detected at a concentration between 1x and 10x the respective SL
- Red shading indicates Naphthalene, B(a)a, or CPAH TEQ was detected at a concentration greater than 10x the respective SL.

7100 Site location where other PAHs or SVOCs exceed respective SLs

Bold results indicate an undetected result with a reporting limit above the respective SL

Naphthalene SL = 1.4 µg/L
 Benzo(a)anthracene SL = 0.01 µg/L
 Total cPAH TEQ SL = 0.01 µg/L

U = analyte not detected above the reported SL
 J = estimated analyte concentration
 SL = Screening Level

IHS = Indicator Hazardous Substance
 µg/L = micrograms per liter

Notes:

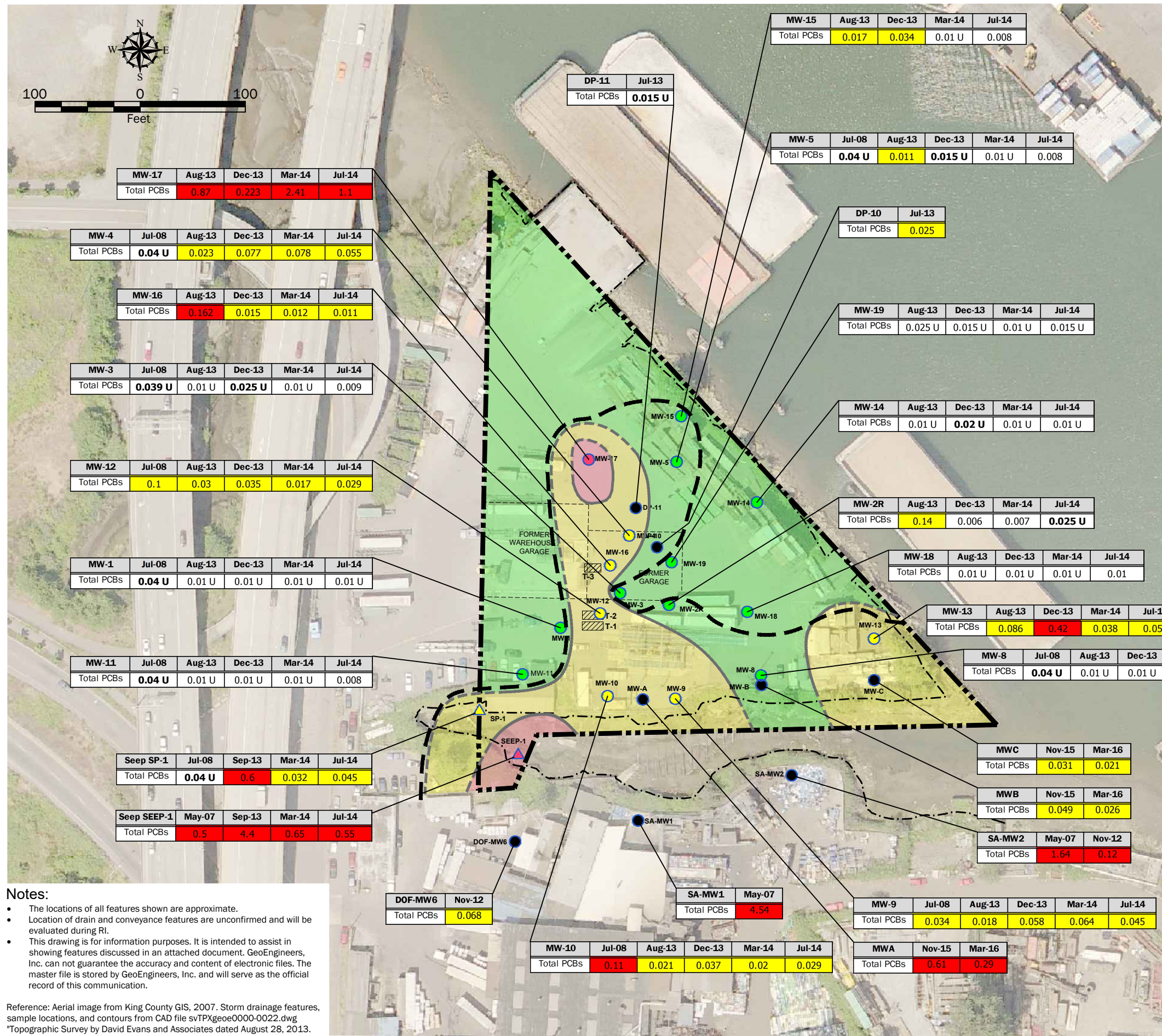
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Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg
 *Topographic Survey by David Evans and Associates dated August 28, 2013.

PAHs and SVOCs in Groundwater

7100 1st Avenue South Site
Seattle, Washington

Figure 38



Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Groundwater Sample Location
- Seep Sample Location
- Sample location was not sampled during July 2014 sampling event
- IHS was not detected above respective SL during July 2014 sampling event
- IHS was detected at a concentration between 1x and 10x the respective SL during July 2014 sampling event
- IHS was detected at a concentration greater than 10x the respective SL during July 2014 sampling event

Data Box Explanation:

Sample Location	Sample Date
Chemical Constituent	Result (µg/L)

- Concentration Contours, dashed where inferred. Contours based on July 2014 sampling event.
- Footprint of Historical SL Exceedances
- Yellow shading indicates Total PCBs was detected at a concentration between 1x and 10x the respective SL
- Red shading indicates Total PCBs was detected at a concentration greater than 10x the respective SL

Bold results indicate an undetected result with a reporting limit above the respective SL

Total PCBs SL = 0.01 µg/L

U = analyte not detected above the reported SL

J = estimated analyte concentration

SL = Screening Level

IHS = Indicator Hazardous Substance

µg/L = micrograms per liter

Notes:

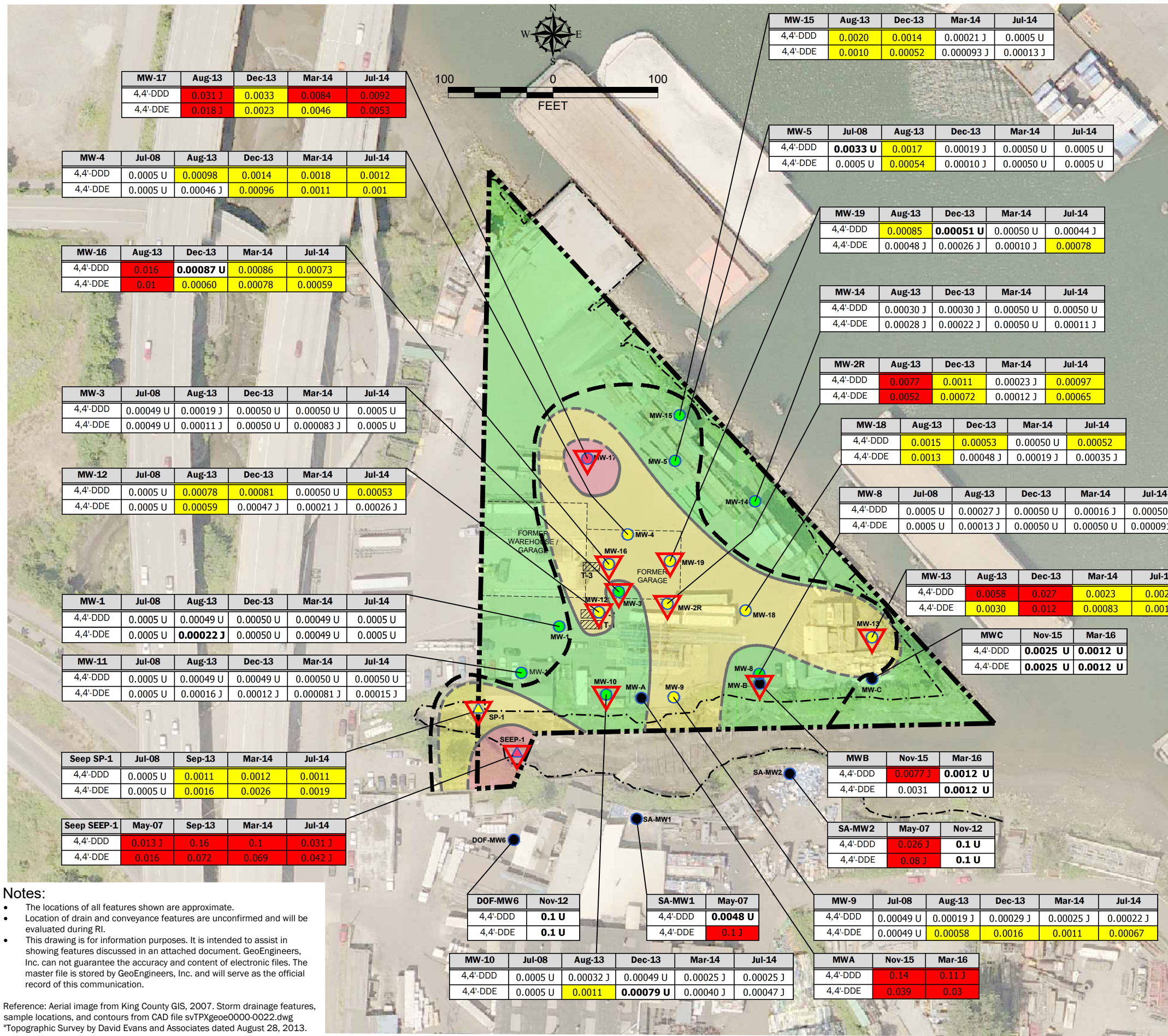
- The locations of all features shown are approximate.
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Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg
Topographic Survey by David Evans and Associates dated August 28, 2013.

**PCBs
in Groundwater**

7100 1st Avenue South Site
Seattle, Washington

Figure 39



Legend

- 7100 1st Avenue South Property Boundary
- Lower Duwamish Waterway Mean Higher High Water Level (MHHW)
- Former Underground Storage Tank (Removed)
- Groundwater Sample Location
- Seep Sample Location
- Sample location was not sampled during July 2014 sampling event
- IHS was not detected above respective SL during July 2014 sampling event
- IHS was detected at a concentration between 1x and 10x the respective SL during July 2014 sampling event
- IHS was detected at a concentration greater than 10x the respective SL during July 2014 sampling event
- 7100 Site location where other pesticides exceed respective SLs

Data Box Explanation:

Sample Location	Sample Date
Chemical Constituent	Result (µg/L)

- Concentration Contours, dashed where inferred. Contours based on July 2014 sampling event.
- Footprint of Historical SL Exceedances
- Yellow shading indicates 4,4'-DDD or 4,4'-DDE were detected at a concentration between 1x and 10x the respective SL
- Red shading indicates 4,4'-DDD or 4,4'-DDE were detected at a concentration greater than 10x the respective SL.

Bold results indicate an undetected result with a reporting limit above the respective SL

4,4'-DDD SL = 0.0005 µg/L
4,4'-DDE SL = 0.0005 µg/L

U = analyte not detected above the reported SL
J = estimated analyte concentration
SL = Screening Level
IHS = Indicator Hazardous Substance
µg/L = micrograms per liter

Notes:

- The locations of all features shown are approximate.
- Location of drain and conveyance features are unconfirmed and will be evaluated during RI.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

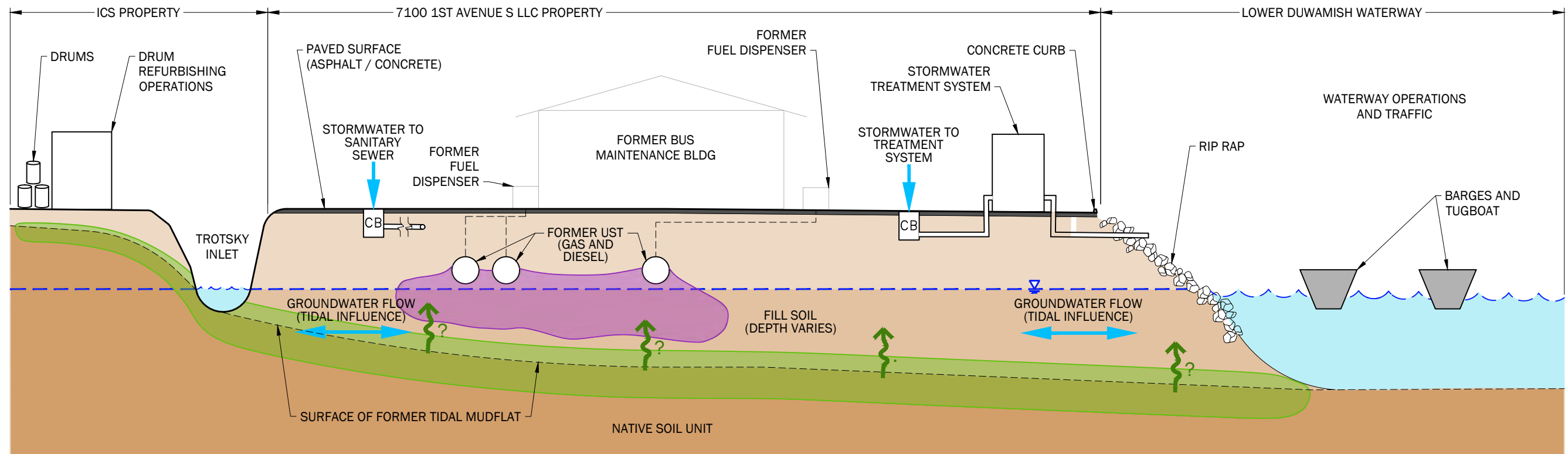
Reference: Aerial image from King County GIS, 2007. Storm drainage features, sample locations, and contours from CAD file svTPXgeoe0000-0022.dwg
Topographic Survey by David Evans and Associates dated August 28, 2013.

Pesticides in Groundwater

7100 1st Avenue South Site
Seattle, Washington

Figure 40

\\geoengineers.com\WAM\Projects\0275015\02\CAD\RI Report\027501502_Fig 41 Conceptual Model.dwg Fig 41 Conceptual Model.dwg TABF41 Date Exported: 08/16/19 - 17:44 by mwwoods



Legend

- | | | | |
|-----|--|--|--|
| UST | Underground storage tank | | Contamination related to former on-site USTs |
| CB | Catch basin | | ICS-related contamination in pre-fill mudflat deposits |
| | Groundwater level | | Vertical migration of ICS contaminants into overlying fill |
| | Approximate groundwater flow direction | | |

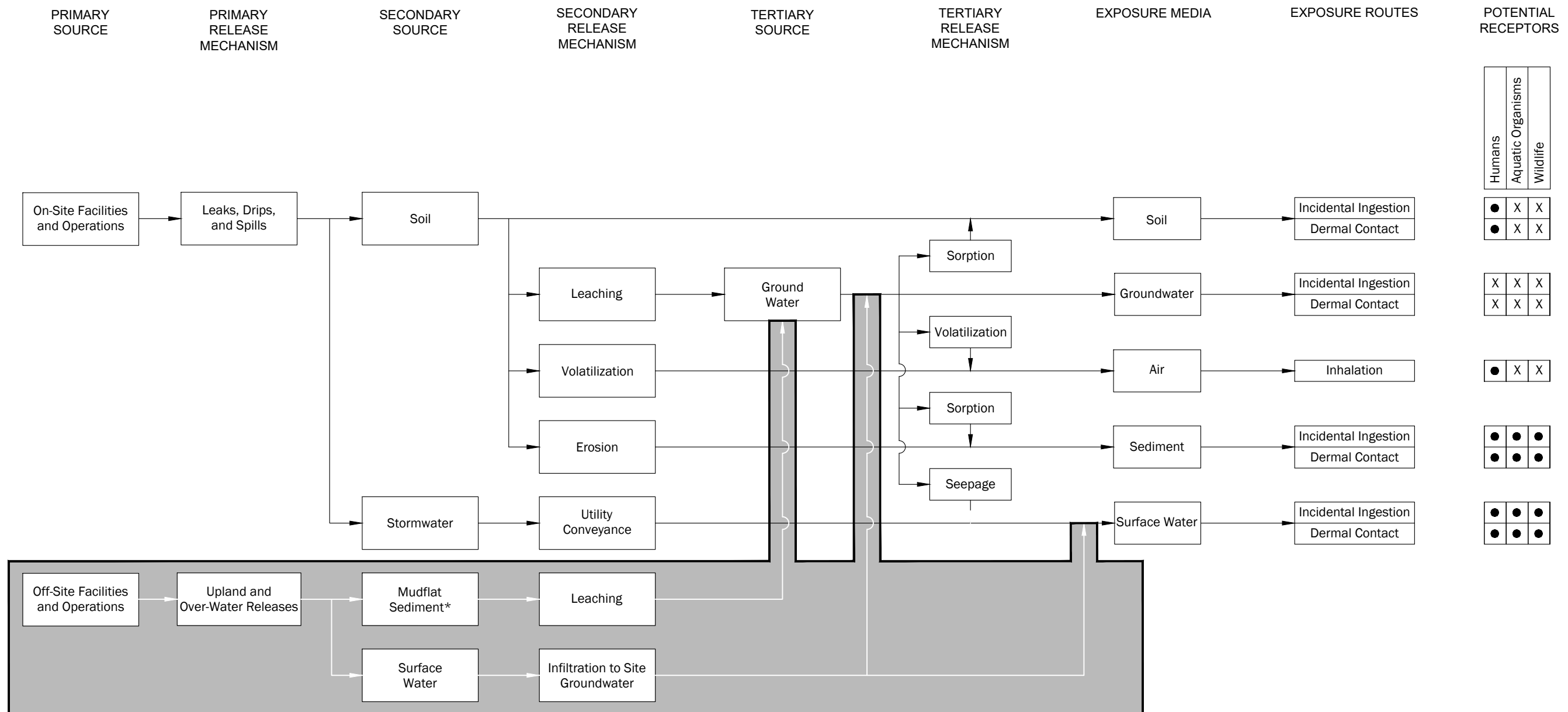
Notes:

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Note: Conceptual Diagram - Not to Scale

Conceptual Site Model Release Mechanisms and Transport Pathways	
7100 1st Avenue South Site Seattle, Washington	
	Figure 41

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Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Explanation
 ● Potentially Complete Exposure Pathway
 X Not Applicable Pathway
 *Includes Trotsky Inlet and Pre-fill mudflat sediment underlying the 7100 Site.

Data Source: Sketch provided by GeoEngineers staff, April 2018.

Conceptual Site Model Potential Exposure Pathways and Receptors	
7100 1st Avenue South Site Seattle, Washington	
	Figure 42