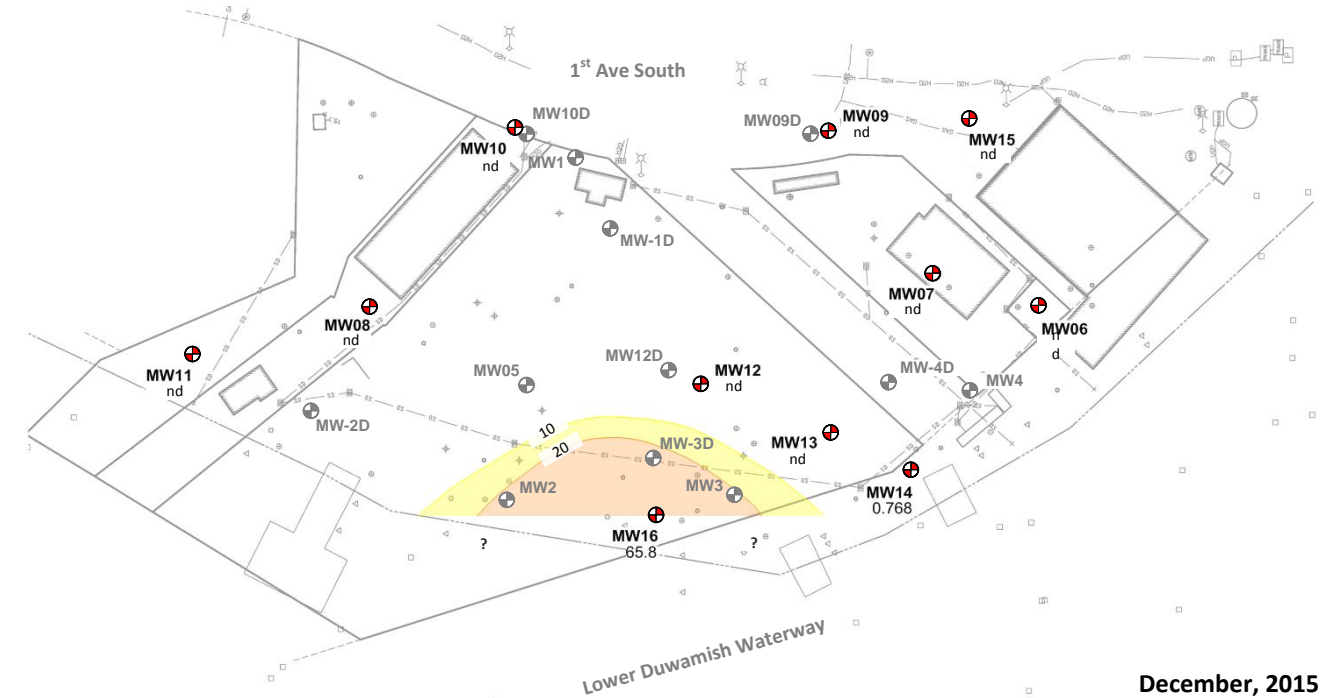
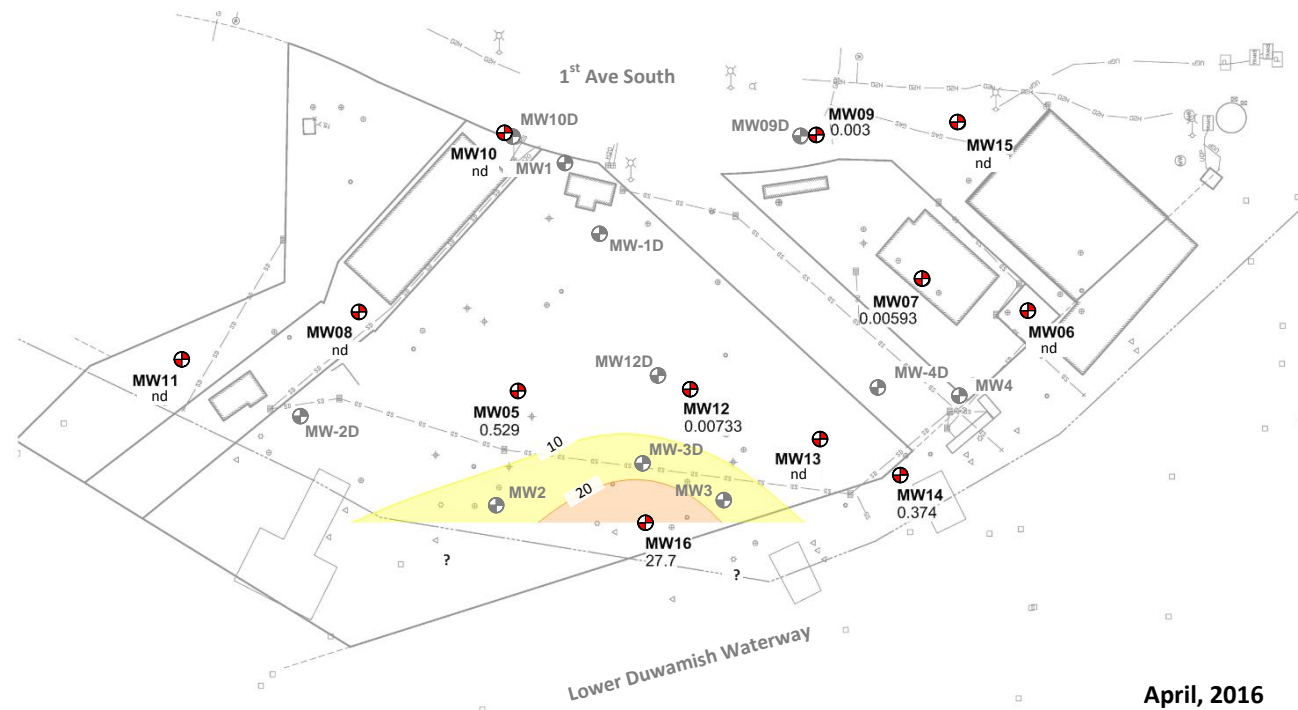


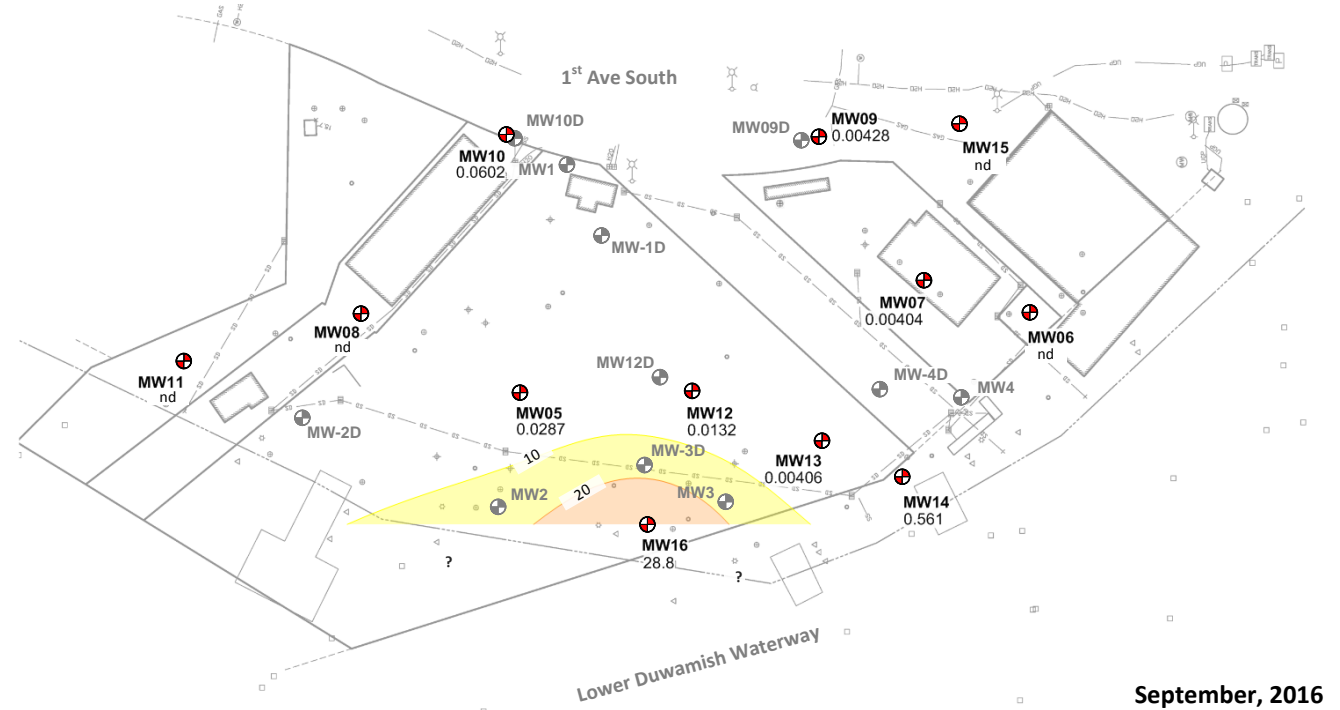
June, 2008



December, 2015








April, 2016



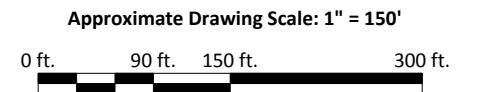
September, 2016

Legend

-  Monitoring Well Location With No Sample Data or Data Not Used for This Figure
-  Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
MW12
2.74
-  Fluorene Detected Greater than the Most Conservative Selected Cleanup Level (10 ug/L) and Less than 20 ug/L
-  Fluorene Detected Greater than 20 ug/L and Less than 100 ug/L
-  Fluorene Detected Greater than 100 ug/L

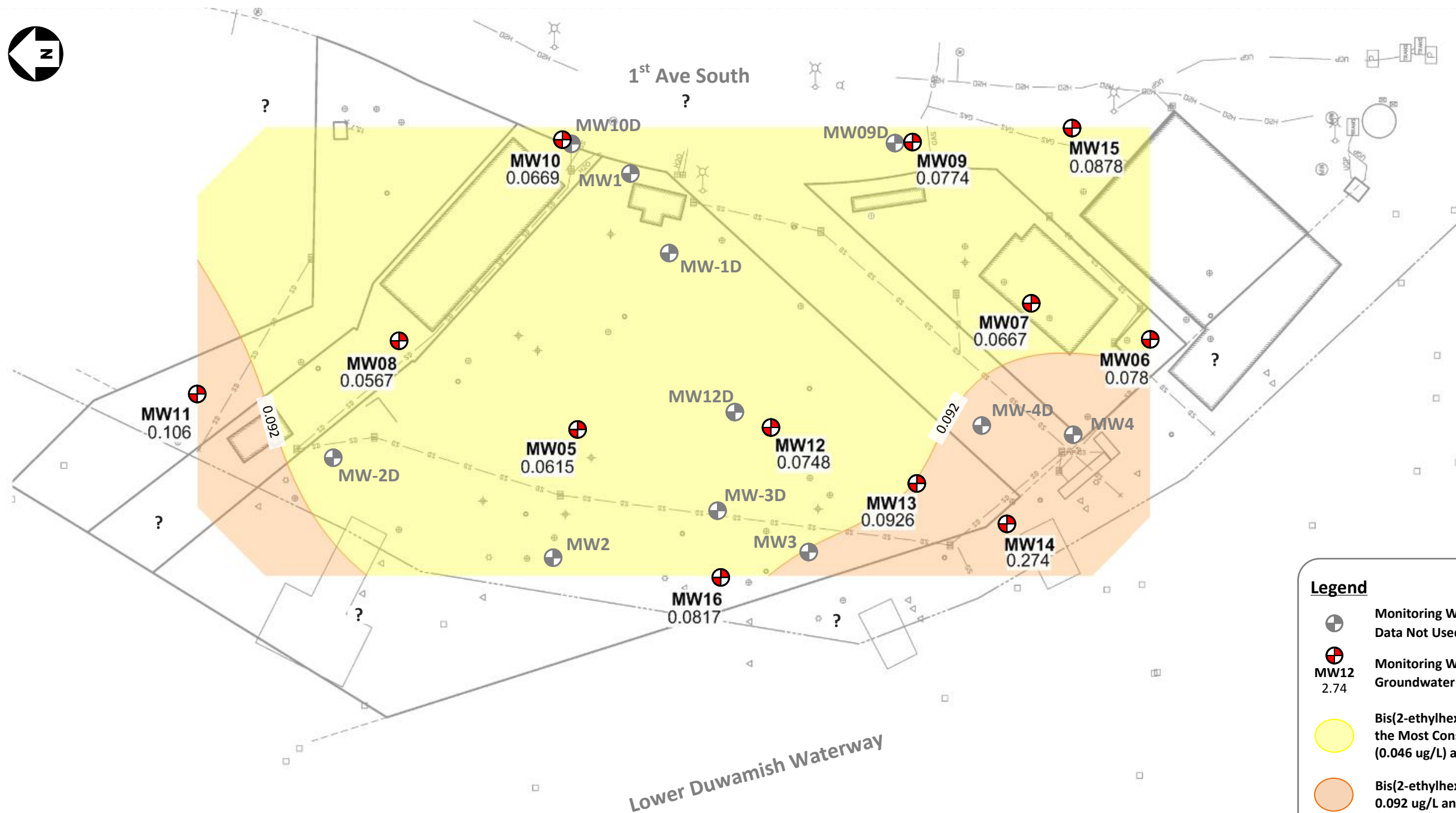
Note: See Table 2-1 for Cleanup Levels and Screening Criteria.

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



Fluorene Concentrations in Groundwater
Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

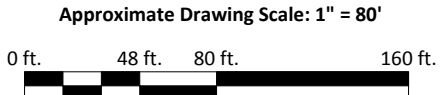
Figure
 12-9



Legend

- Monitoring Well Location With No Sample Data or Data Not Used for This Figure
- Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
- Bis(2-ethylhexyl)phthalate Detected Greater than the Most Conservative Selected Cleanup Level (0.046 ug/L) and Less than 0.092 ug/L
- Bis(2-ethylhexyl)phthalate Detected Greater than 0.092 ug/L and Less than 0.46 ug/L
- Bis(2-ethylhexyl)phthalate Detected Greater than 0.46 ug/L

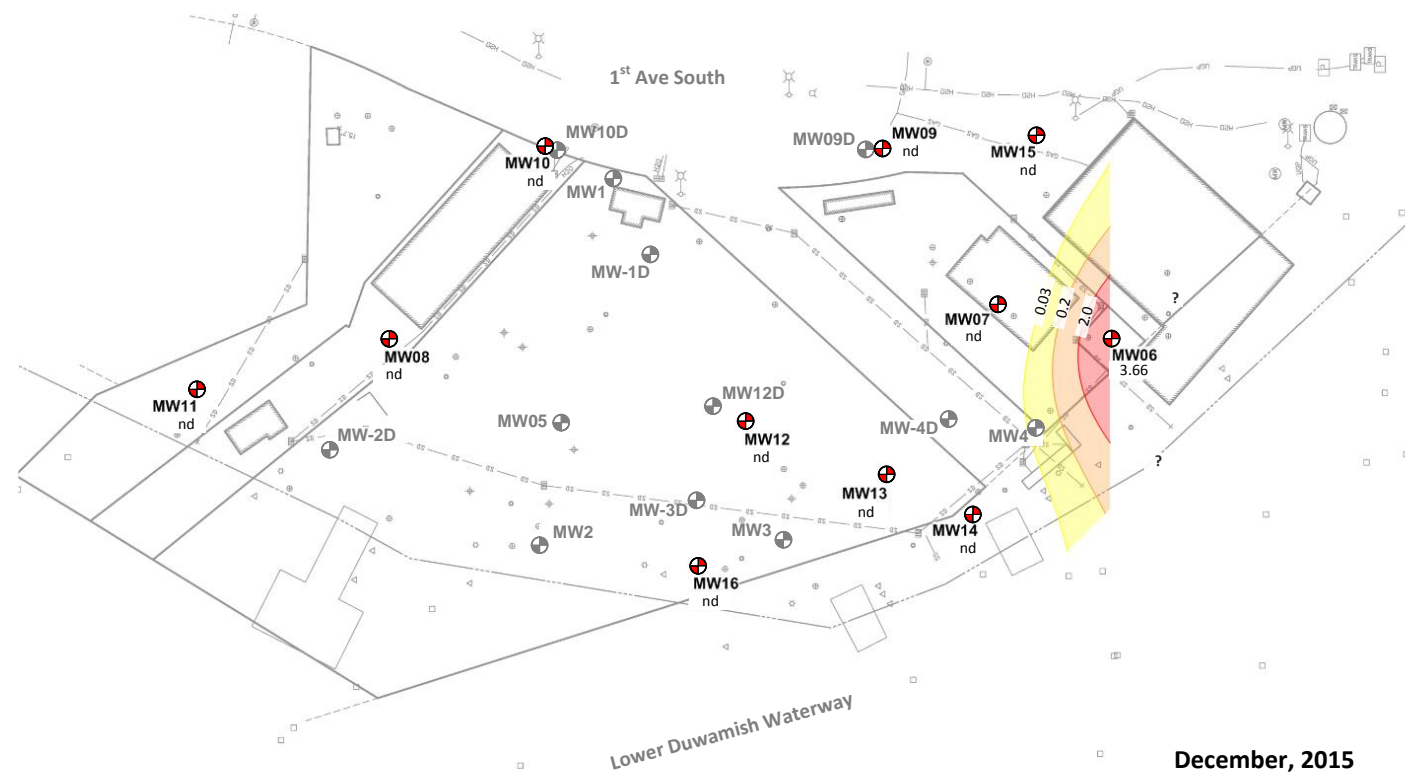
Note: See Table 2-1 for Cleanup Levels and Screening Criteria.



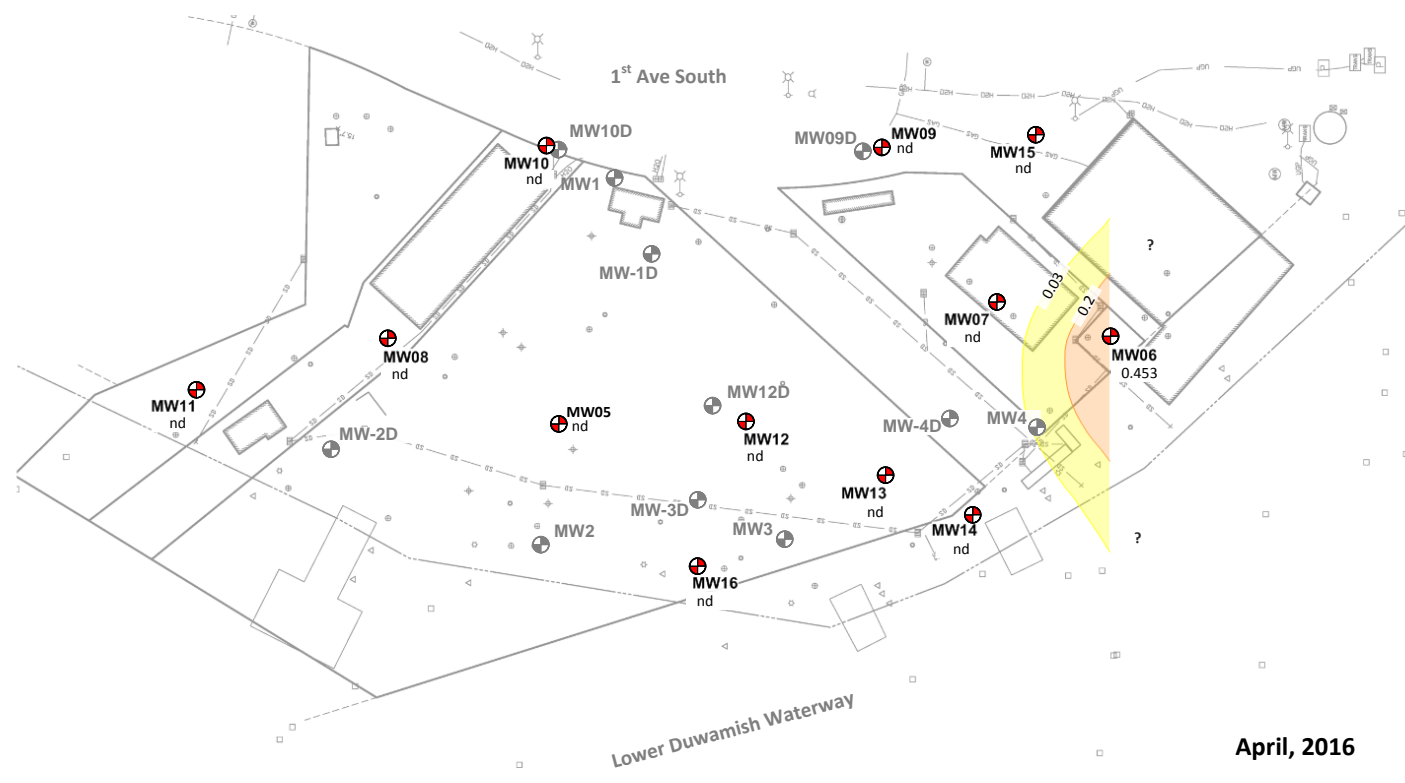
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Bis(2-ethylhexyl)phthalate Concentrations in Groundwater (September, 2016)
 Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

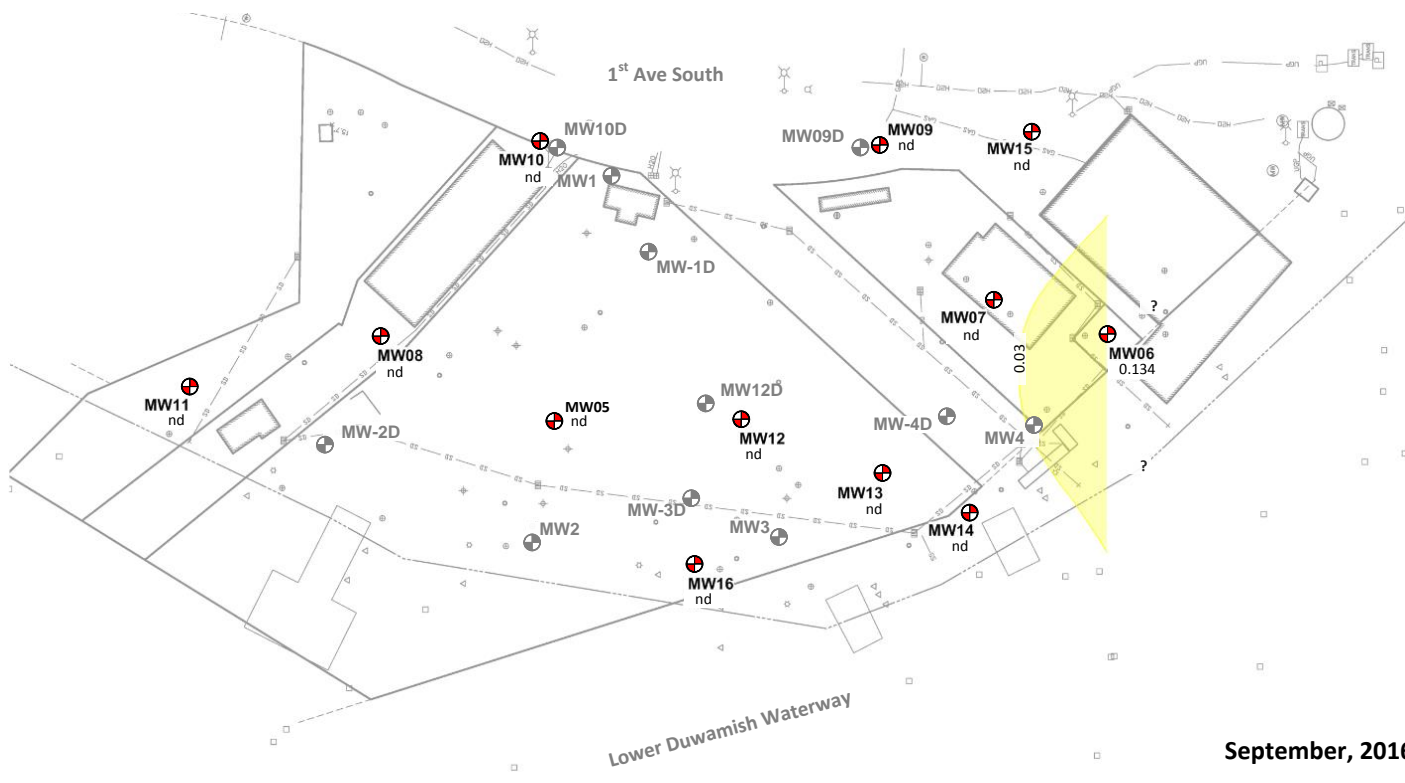
Figure
 12-10



December, 2015








April, 2016

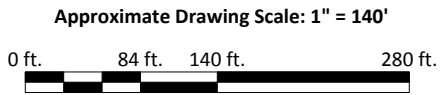


September, 2016

Legend

-  Monitoring Well Location With No Sample Data or Data Not Used for This Figure
-  **MW12**
2.74
-  Pentachlorophenol Detected Above the Laboratory Reporting Limit (approximately 0.03 ug/L) and Less than 0.2 ug/L (100x the Cleanup Level)
-  Pentachlorophenol Detected Greater than 0.2 ug/L and Less than 2.0 ug/L (1,000x the Cleanup Level)
-  Pentachlorophenol Detected Greater than 2.0 ug/L

Notes:
-See Table 2-1 for Cleanup Levels and Screening Criteria

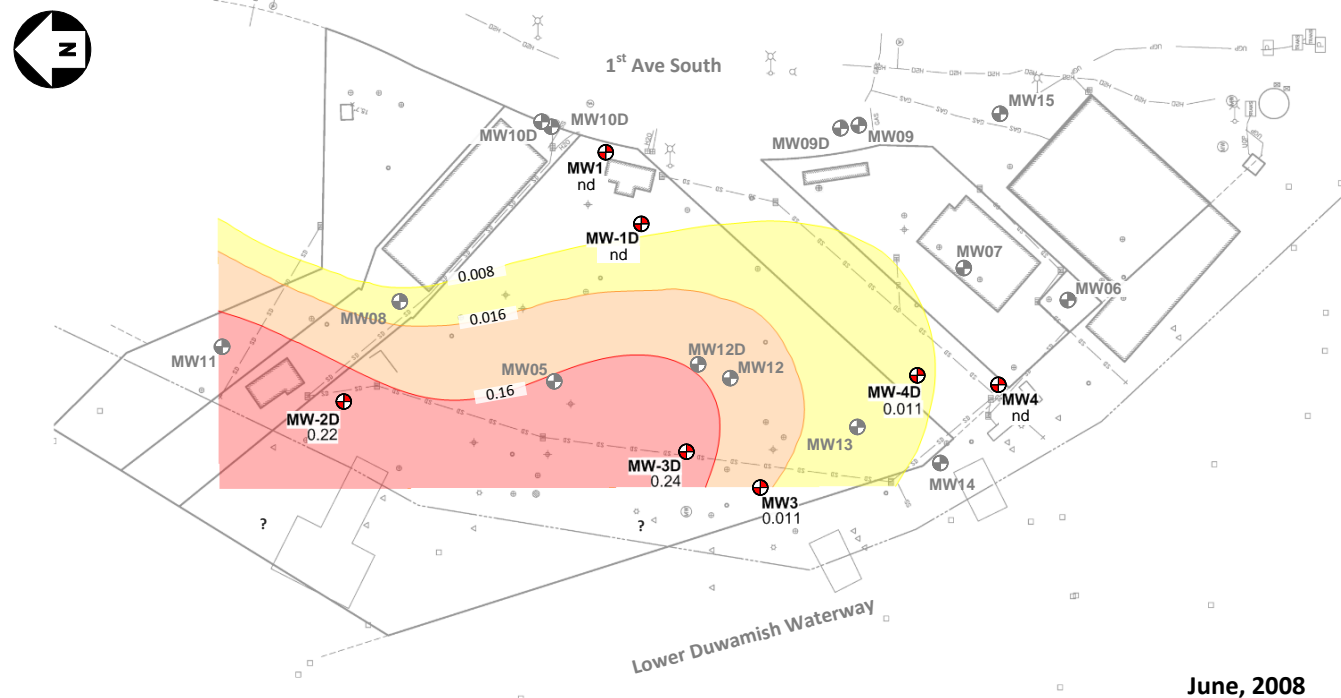


Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

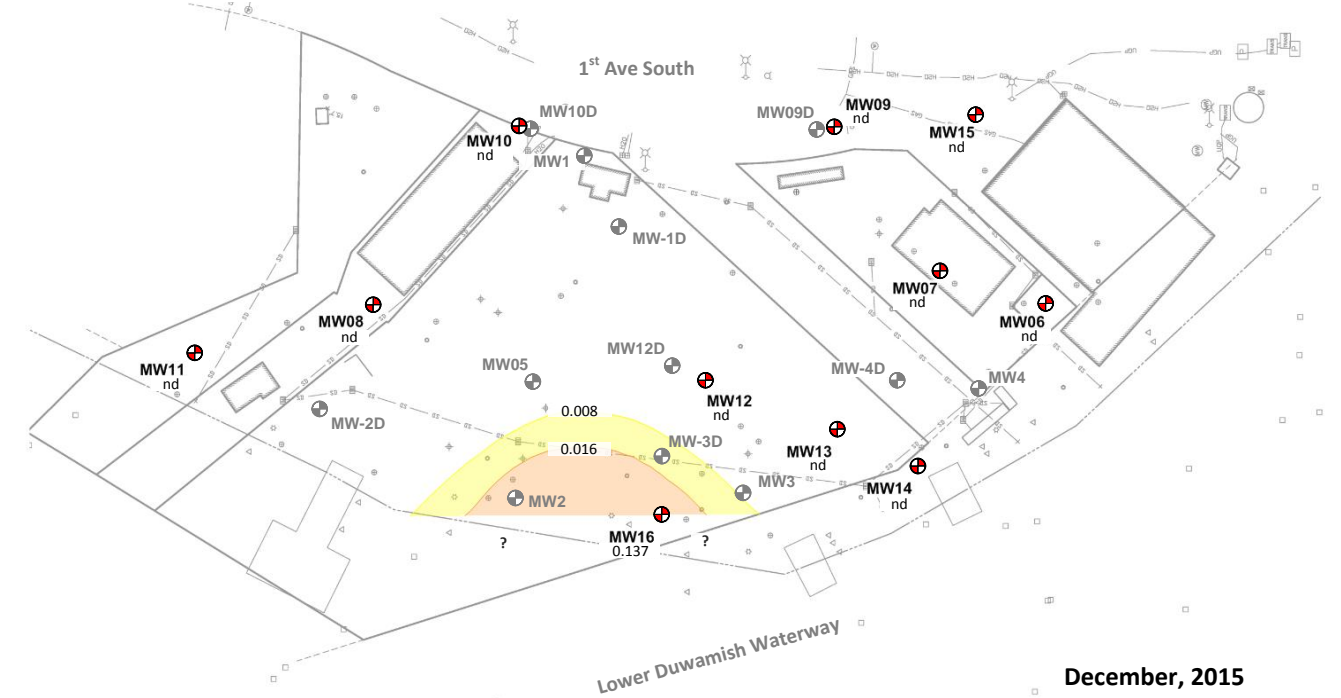
Pentachlorophenol Concentrations in Groundwater
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

Figure
12-11

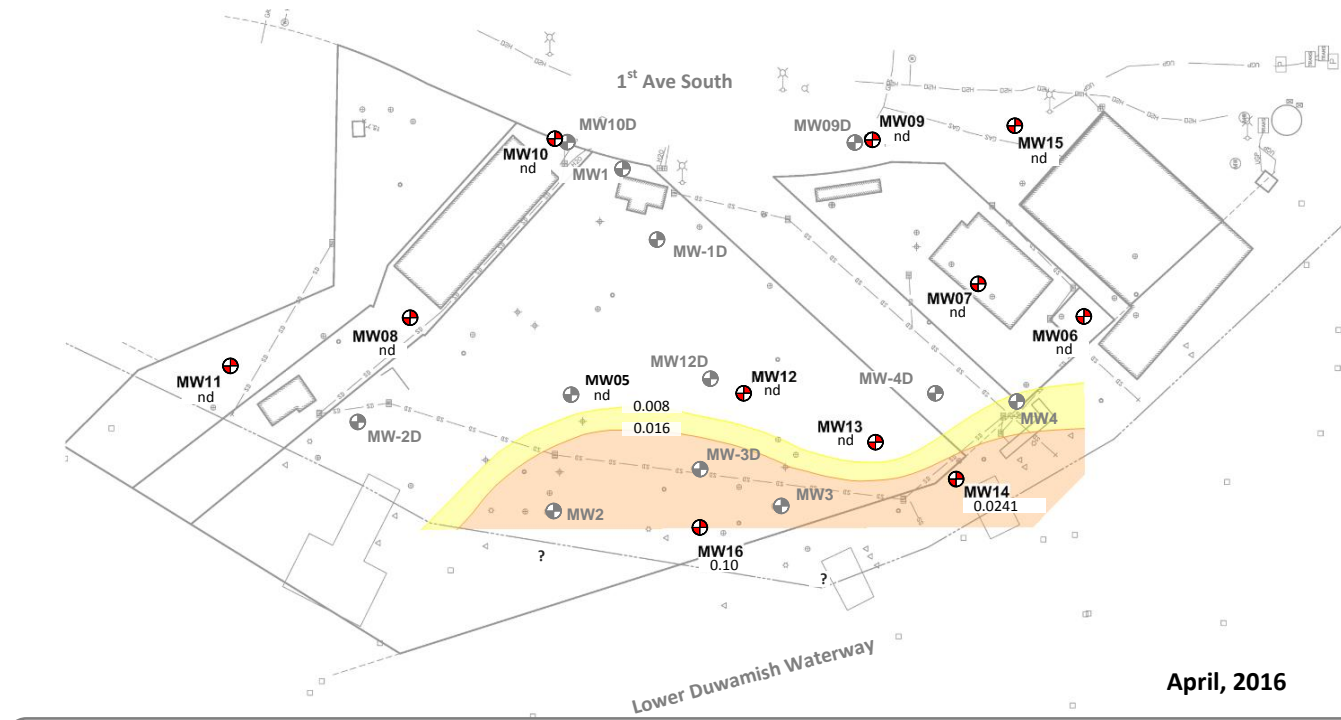
Project File: 01-0979-G-F12-12 Benzo(a)anthracene GW.vsd



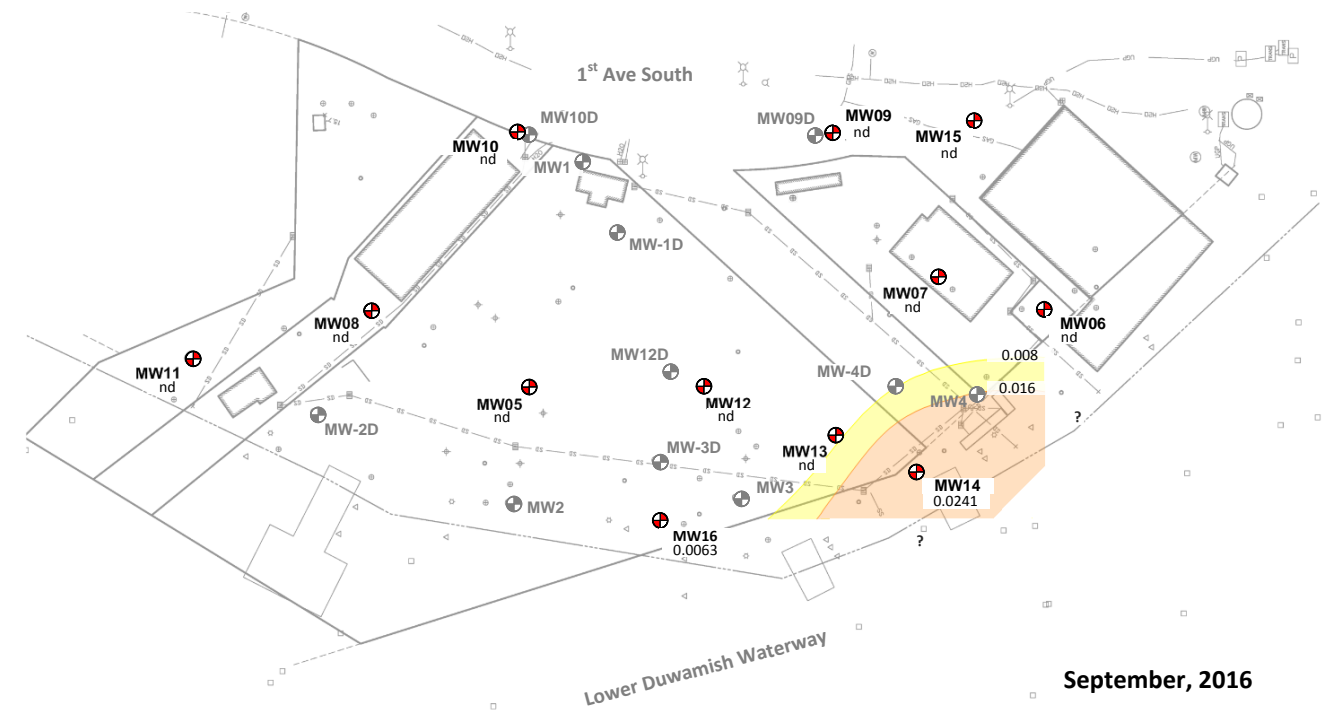
June, 2008



December, 2015








April, 2016



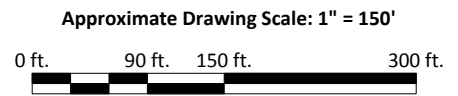
September, 2016

Legend

-  Monitoring Well Location With No Sample Data or Data Not Used for This Figure
-  Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
-  Benzo(a)anthracene Detected Above the Laboratory Reporting Limit (approximately 0.008 ug/L) and Less than 0.016 ug/L (100x the Cleanup Level)
-  Benzo(a)anthracene Detected Greater than 0.016 ug/L and Less than 0.16 ug/L (1,000x the Cleanup Level)
-  Benzo(a)anthracene Detected Greater than 0.16 ug/L

Notes:
 -Cleanup Level for Benzo(a)anthracene is 0.00016 ug/L
 -See Table 2-1 for Cleanup Levels and Screening Criteria

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

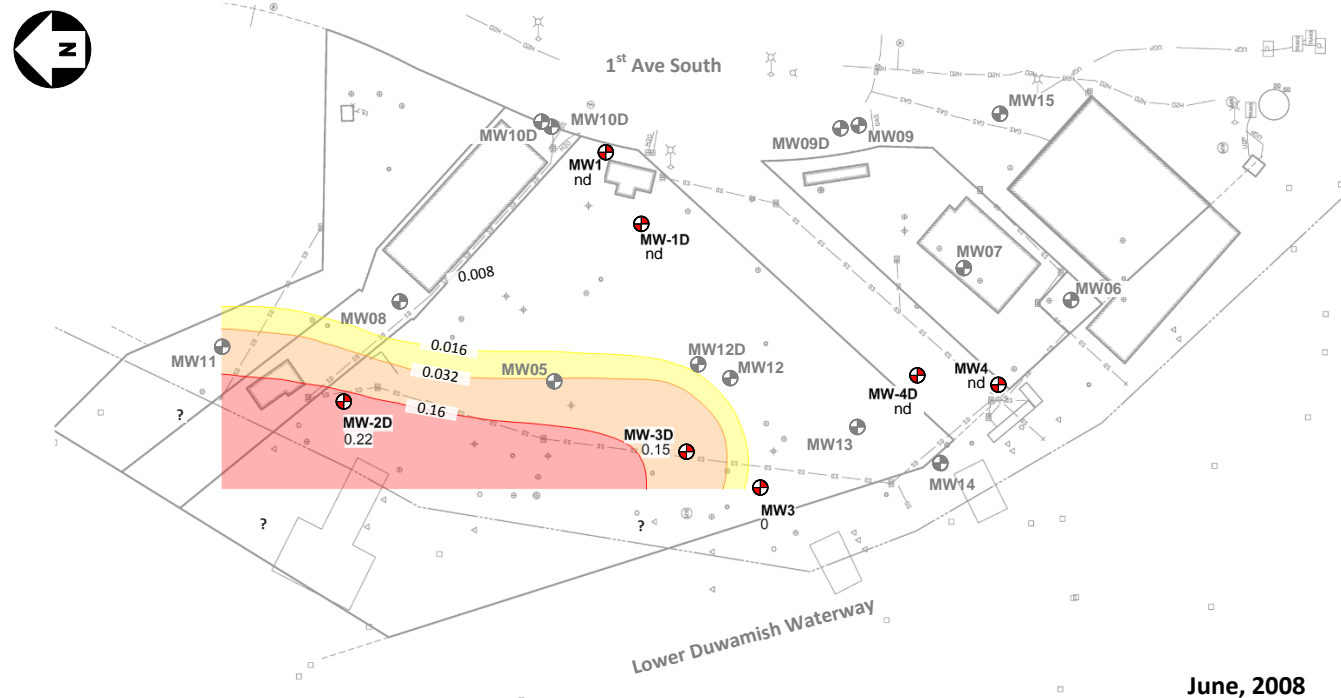


Benzo(a)anthracene Concentrations in Groundwater
Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

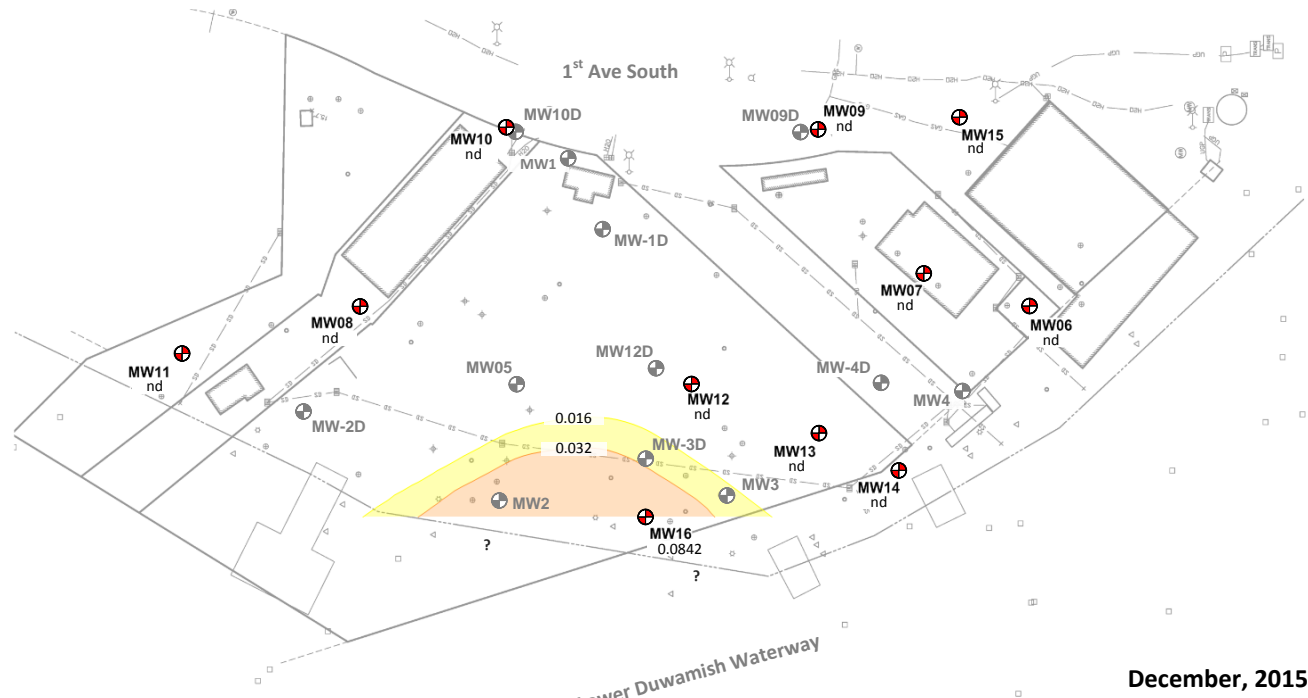
Figure 12-12



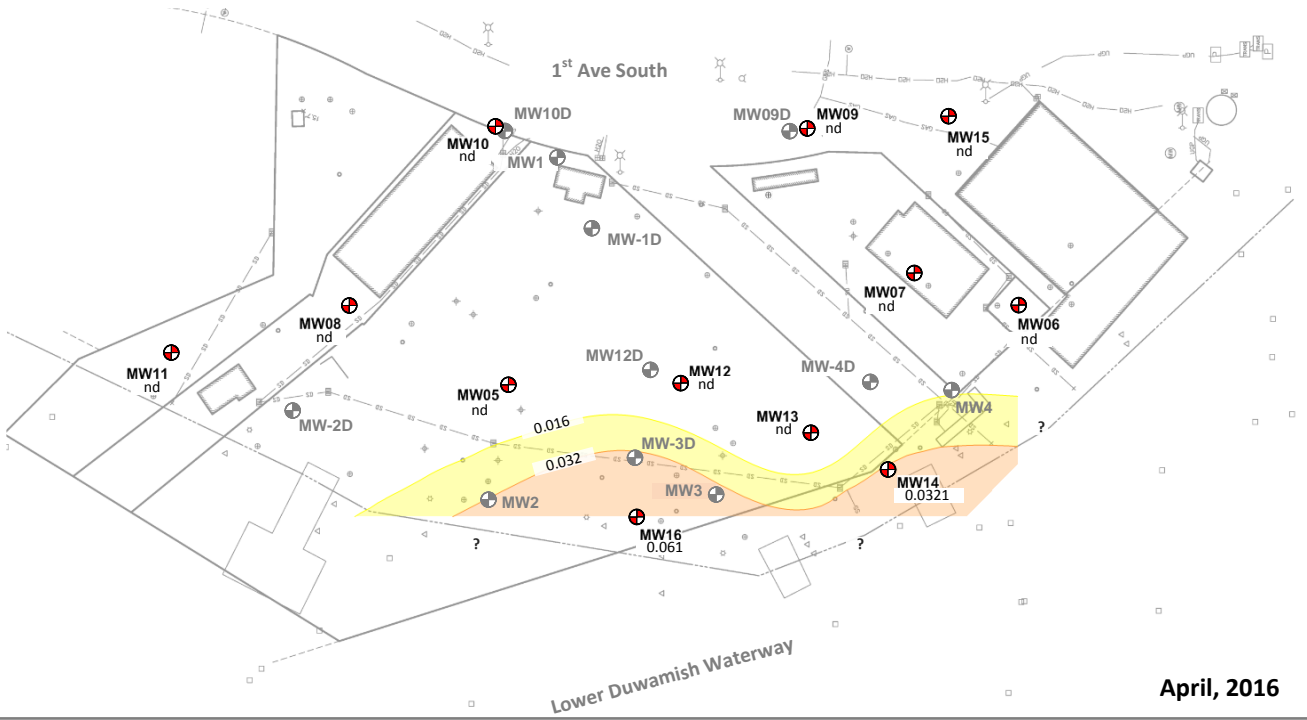
Mapping Reference: PLS, Inc. Survey (2015-2017), Ecology Environmental Information Management (EIM) Database.



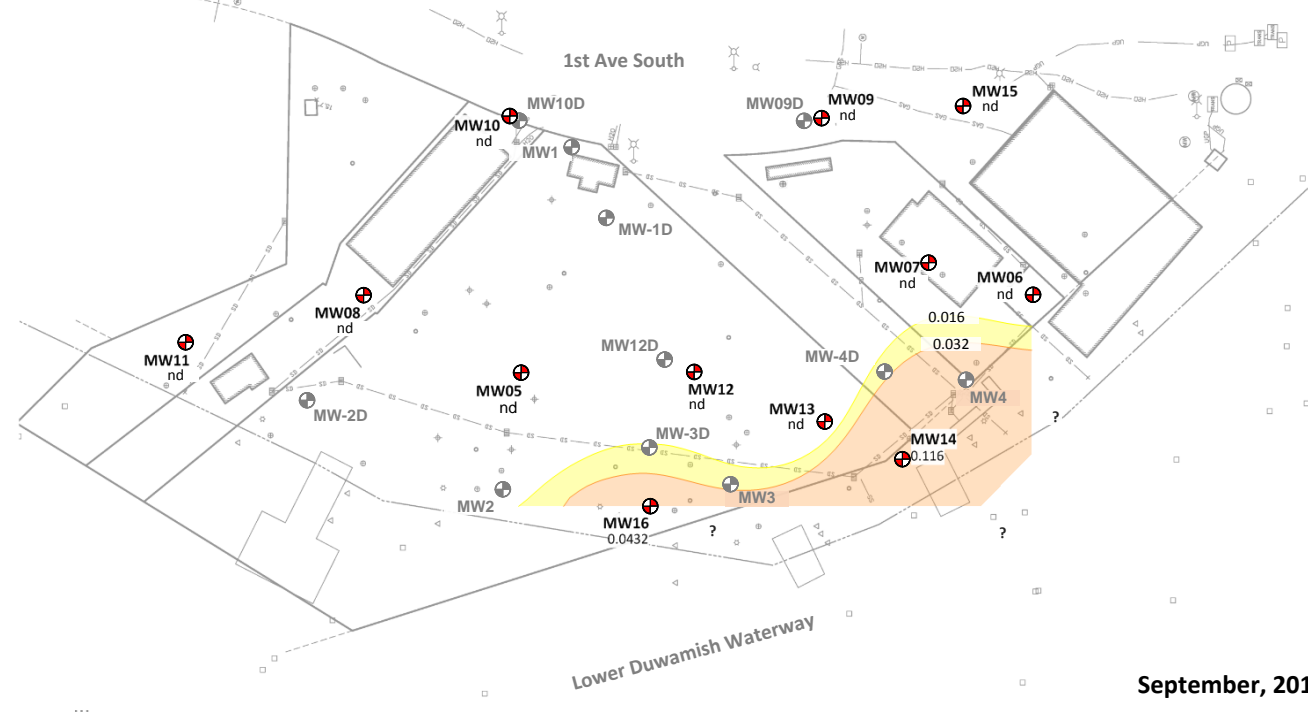
June, 2008



December, 2015








April, 2016



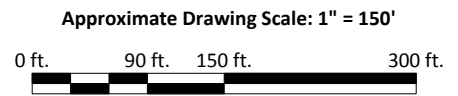
September, 2016

Legend

-  Monitoring Well Location With No Sample Data or Data Not Used for This Figure
-  Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
-  Chrysenes Detected Greater than the Most Conservative Selected Cleanup Level (0.016 ug/L) and Less than 0.032 ug/L
-  Chrysenes Detected Greater than 0.032 ug/L and Less than 0.16 ug/L
-  Chrysenes Detected Greater than 0.16 ug/L

Note: See Table 2-1 for Cleanup Levels and Screening Criteria.

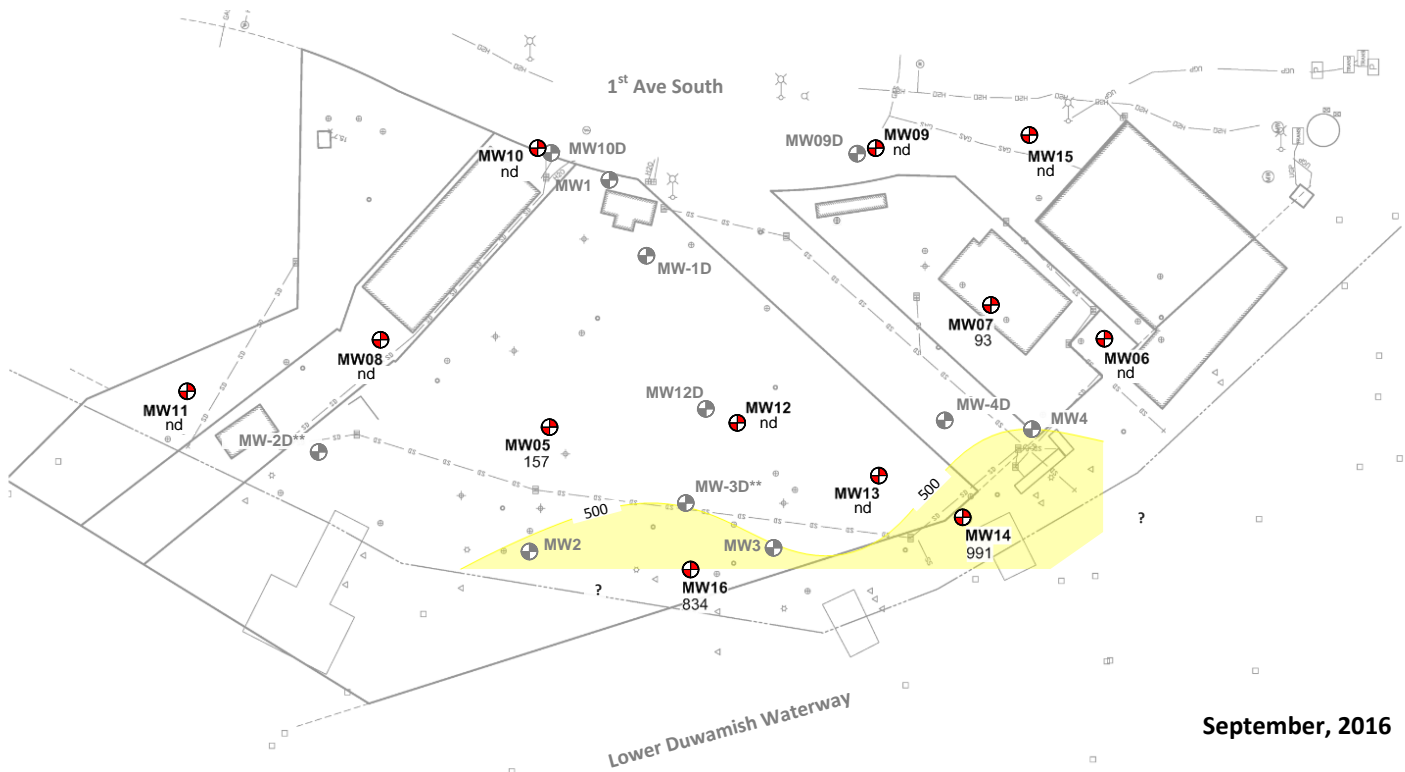
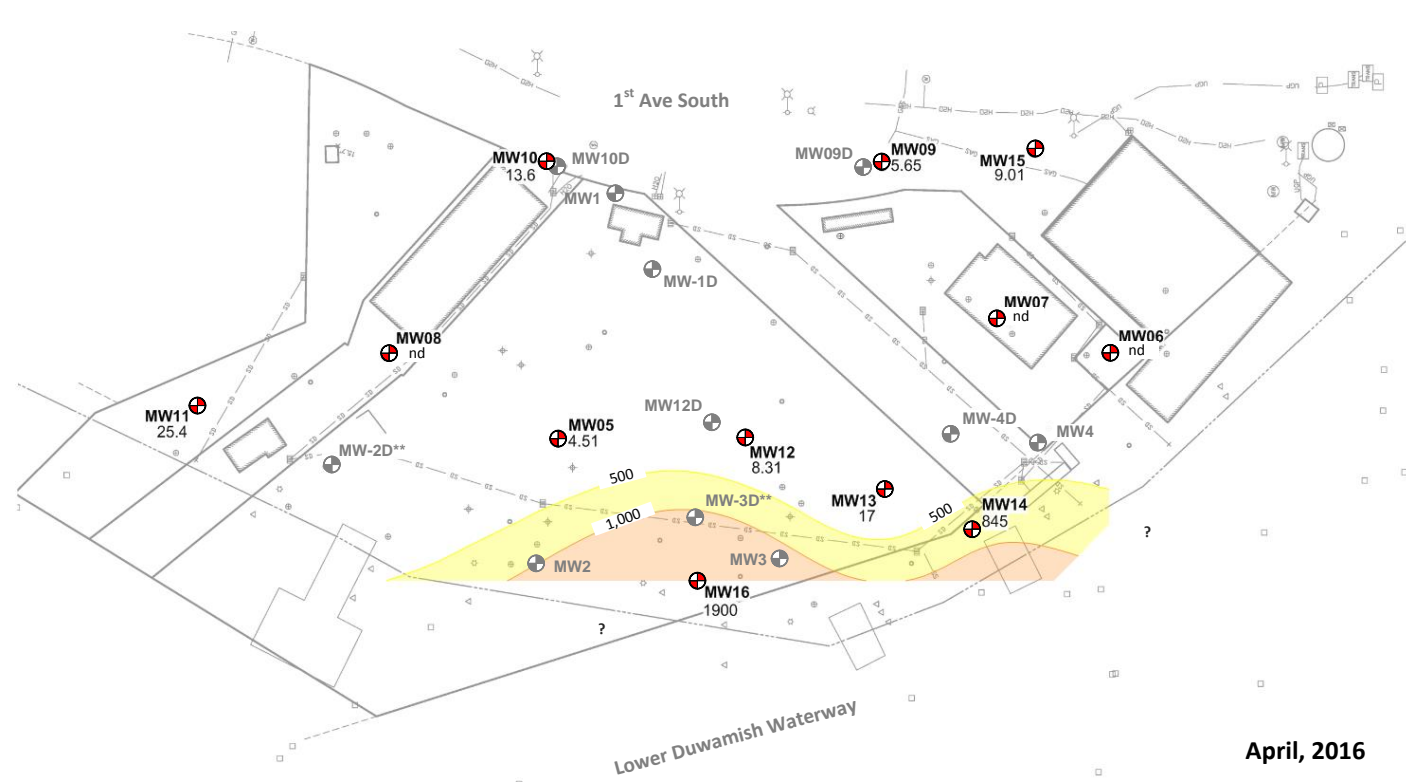
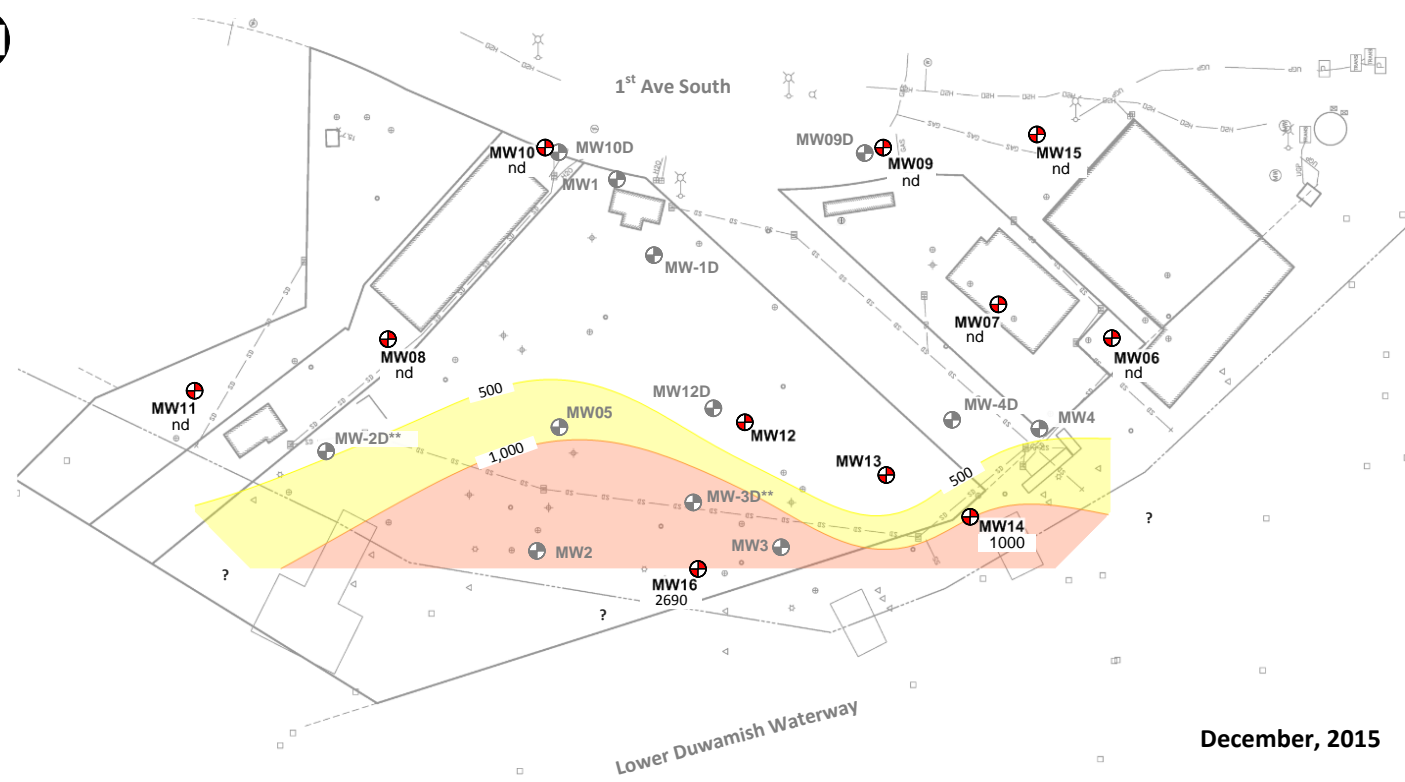
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



Chrysenes Concentrations in Groundwater
 Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

Figure
 12-13





Legend

- Monitoring Well Location With No Sample Data or Data Not Used for This Figure
- Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
- DRO Detected Greater than the Most Conservative Selected Cleanup Level (500 ug/L) and Less than 1,000 ug/L
- DRO Detected Greater than 1,000 ug/L and Less than 5,000 ug/L
- DRO Detected Greater than 5,000 ug/L
- Asterisks Indicate Locations Where Sheen Was Noted on the Boring Logs During Drilling

Note: See Table 2-1 for Cleanup Levels and Screening Criteria.

Project File: 01-0979-G-F12-14 DRO GW.vsd

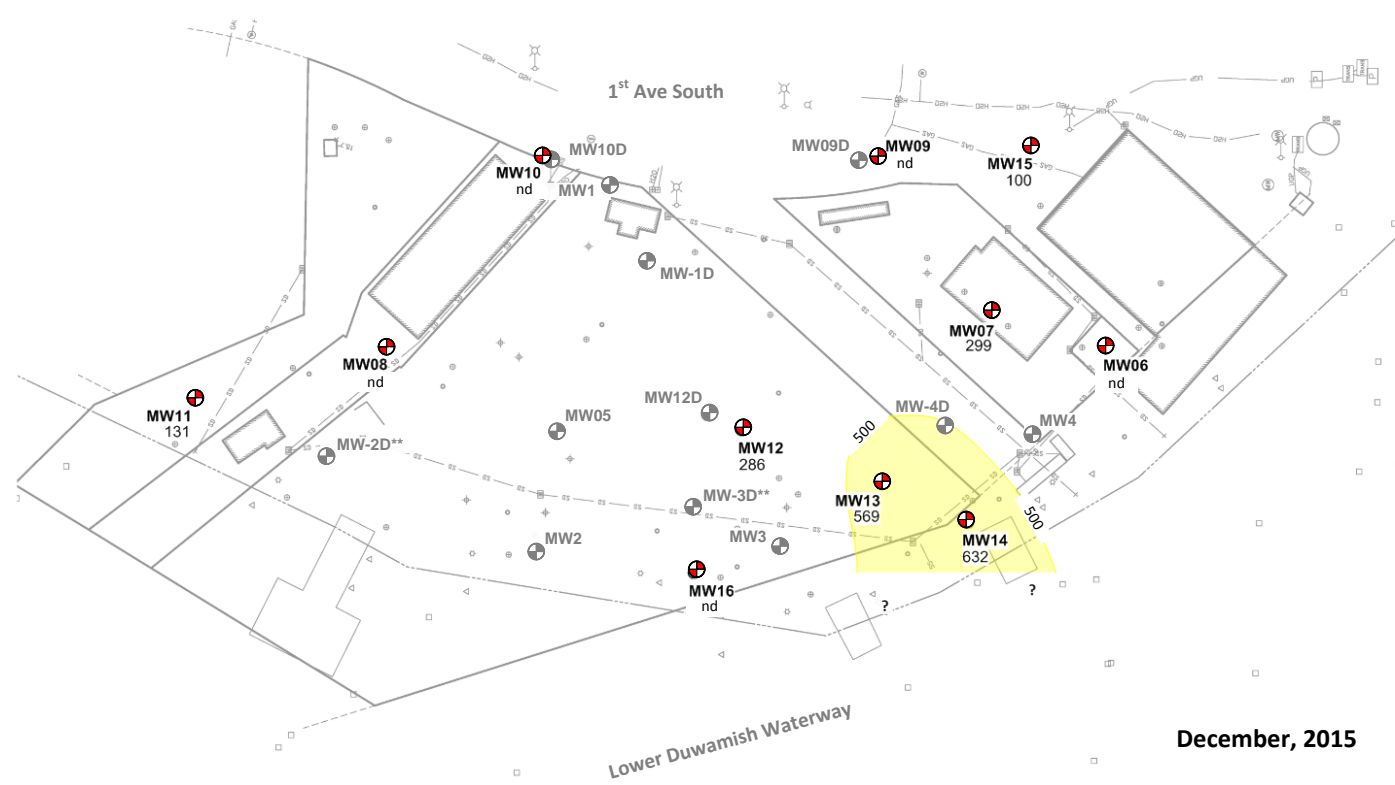


Approximate Drawing Scale: 1" = 140'
 0 ft. 84 ft. 140 ft. 280 ft.

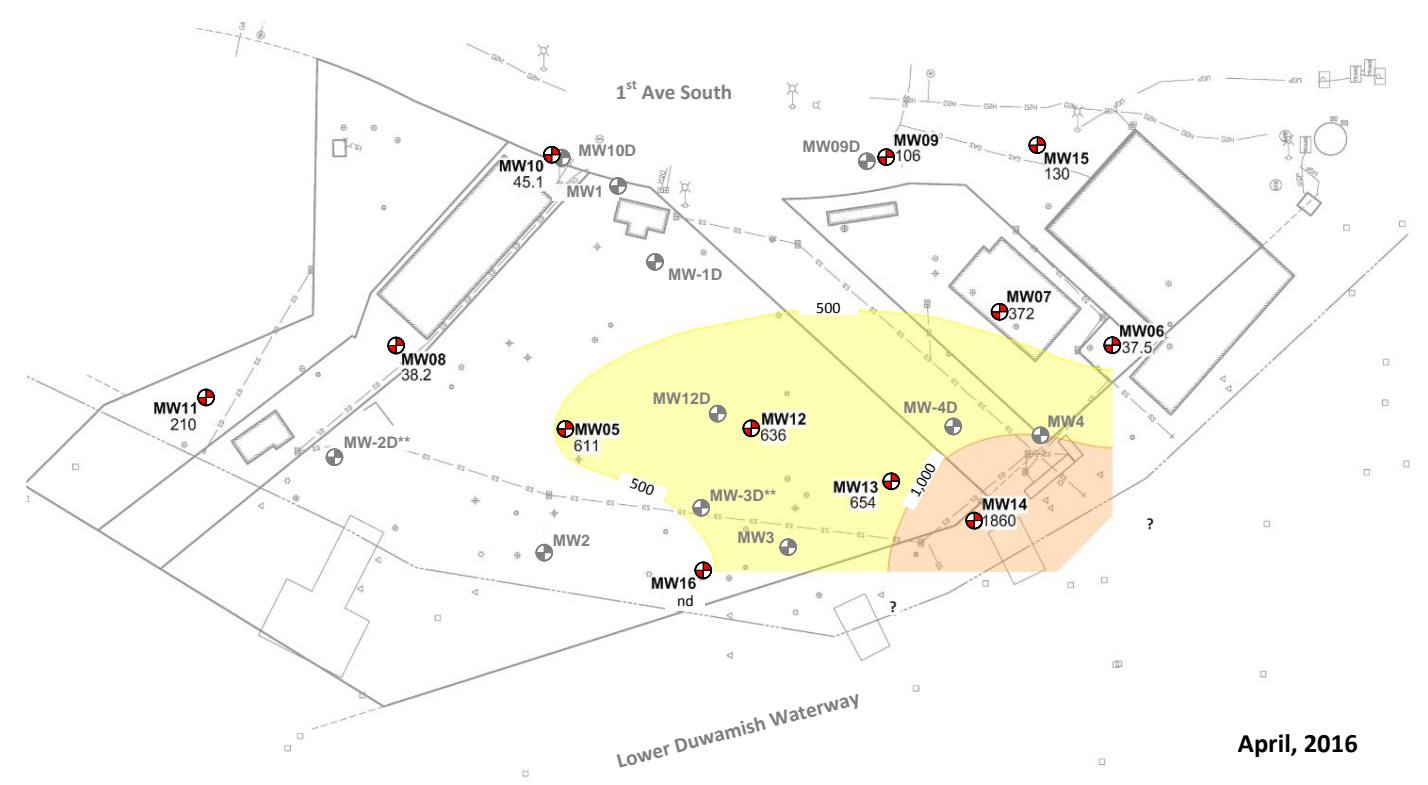
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Diesel-Range Organics Concentrations in Groundwater
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

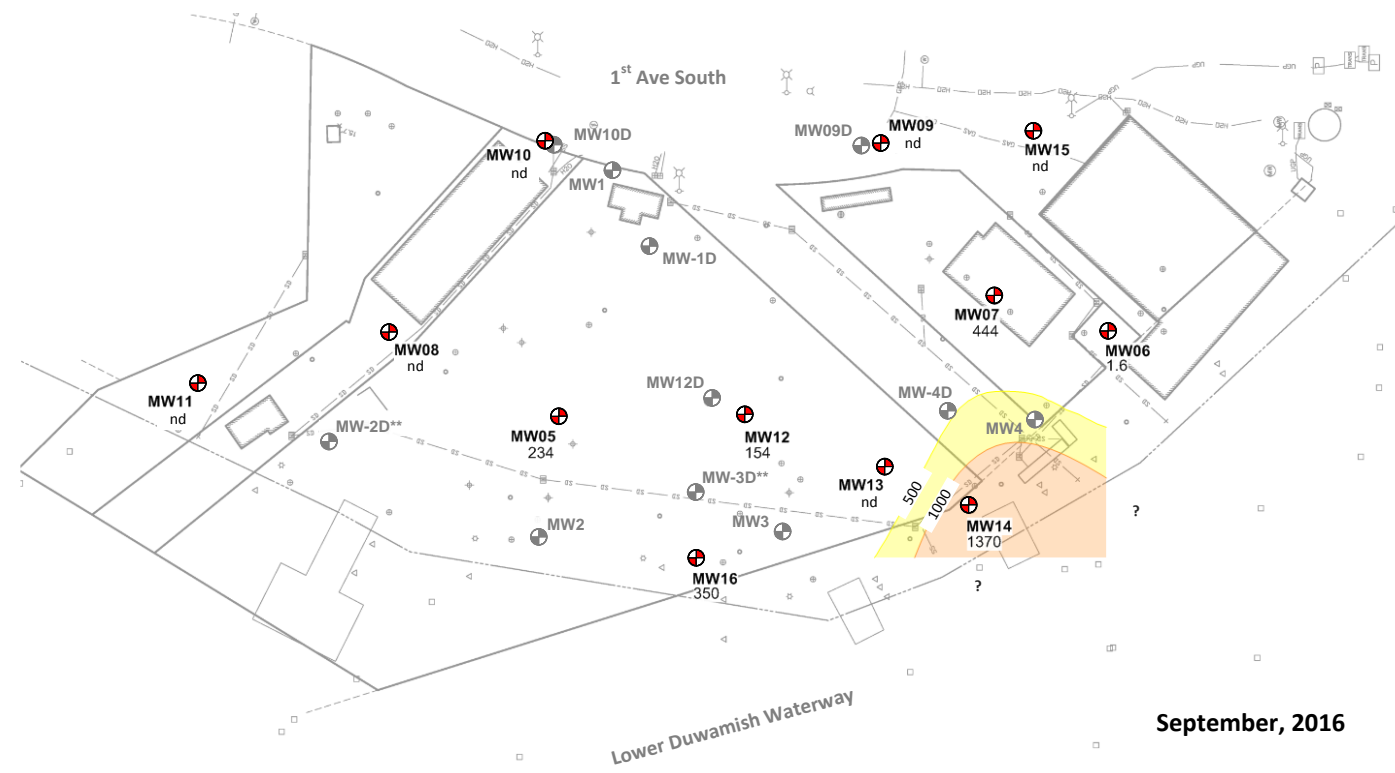
Figure
12-14



December, 2015








April, 2016

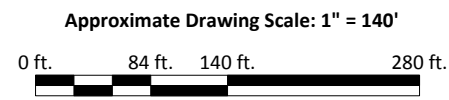


September, 2016

Legend

-  Monitoring Well Location With No Sample Data or Data Not Used for This Figure
-  Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
MW12
2.74
-  ORO Detected Greater than the Most Conservative Selected Cleanup Level (500 ug/L) and Less than 1,000 ug/L
-  ORO Detected Greater than 1,000 ug/L and Less than 5,000 ug/L
-  ORO Detected Greater than 5,000 ug/L
- MW-2D**** Asterisks Indicate Locations Where Sheen Was Noted on the Boring Logs During Drilling

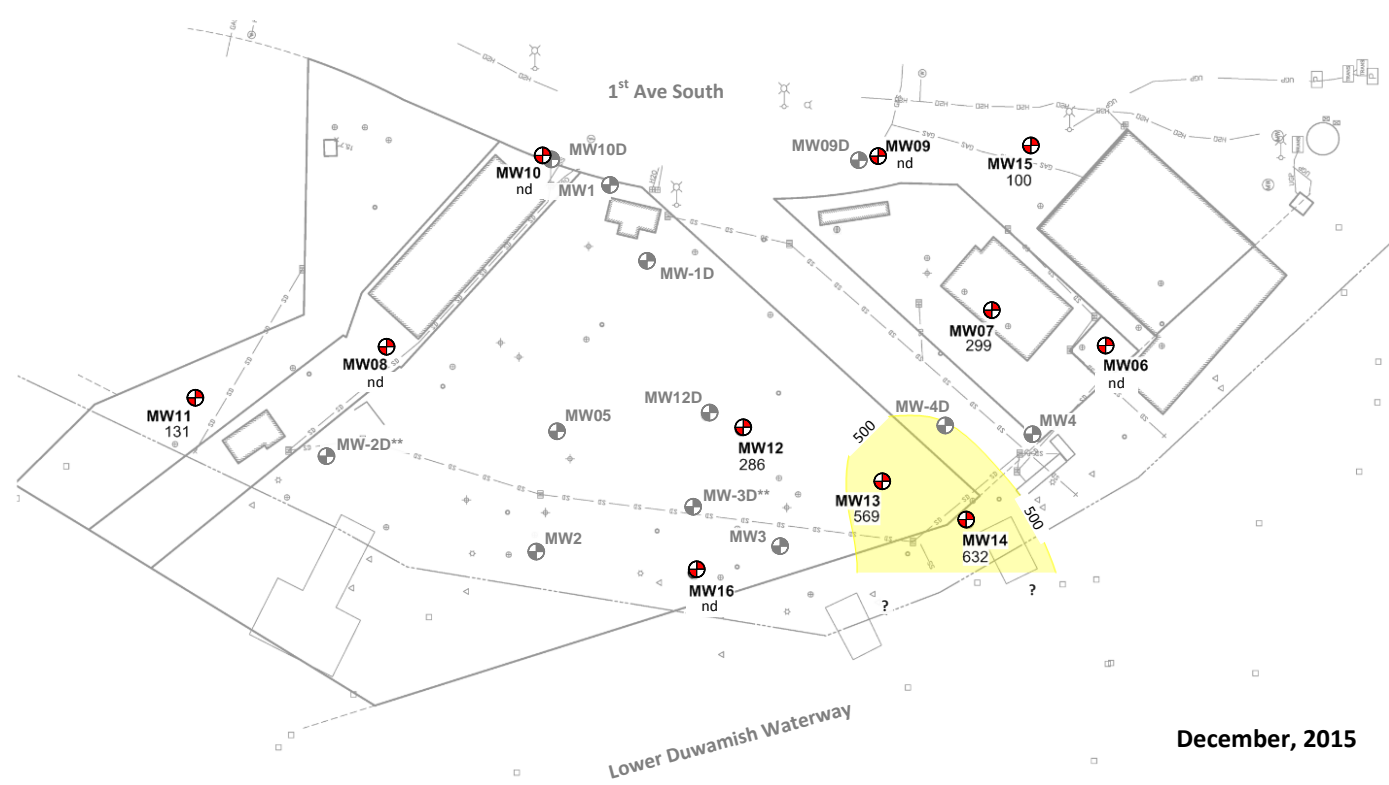
Note: See Table 2-1 for Cleanup Levels and Screening Criteria.



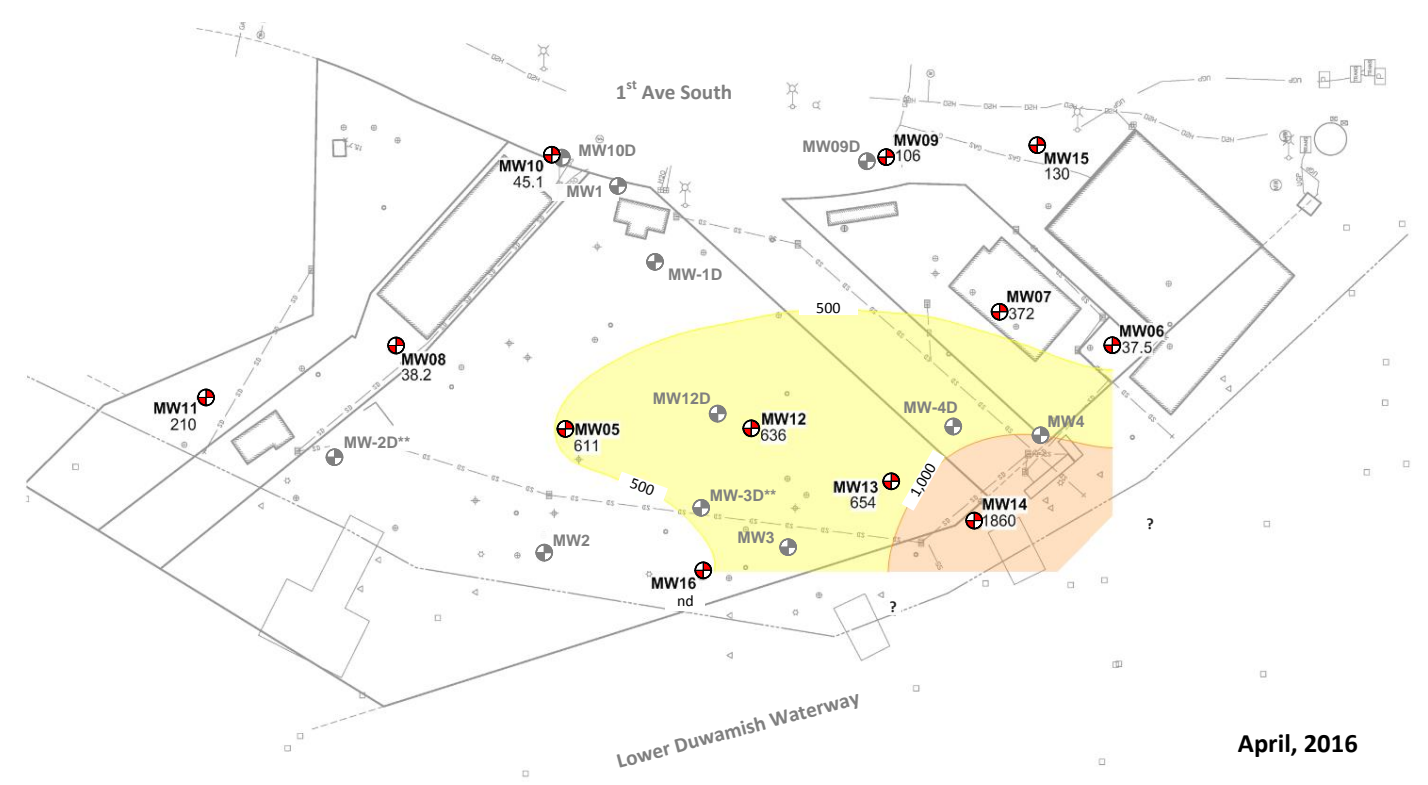
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Oil-Range Organics Concentrations in Groundwater
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

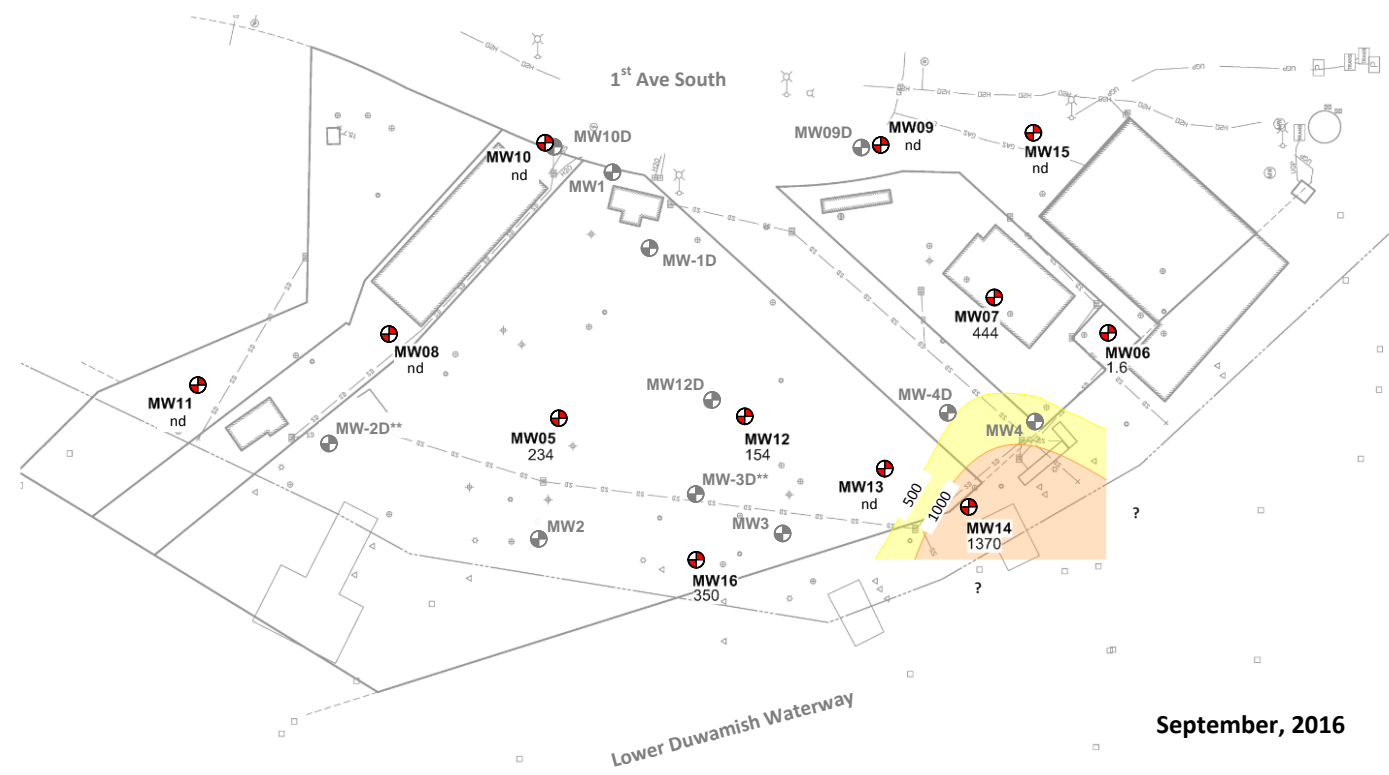
Figure
12-15



December, 2015



April, 2016

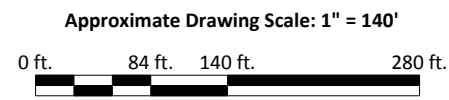


September, 2016

Legend

- Monitoring Well Location With No Sample Data or Data Not Used for This Figure
- Monitoring Well location, Identification, and Groundwater Sample Concentration (ug/L)
MW12 2.74
- ORO Detected Greater than the Most Conservative Selected Cleanup Level (500 ug/L) and Less than 1,000 ug/L
- ORO Detected Greater than 1,000 ug/L and Less than 5,000 ug/L
- ORO Detected Greater than 5,000 ug/L
- MW-2D** Asterisks Indicate Locations Where Sheen Was Noted on the Boring Logs During Drilling

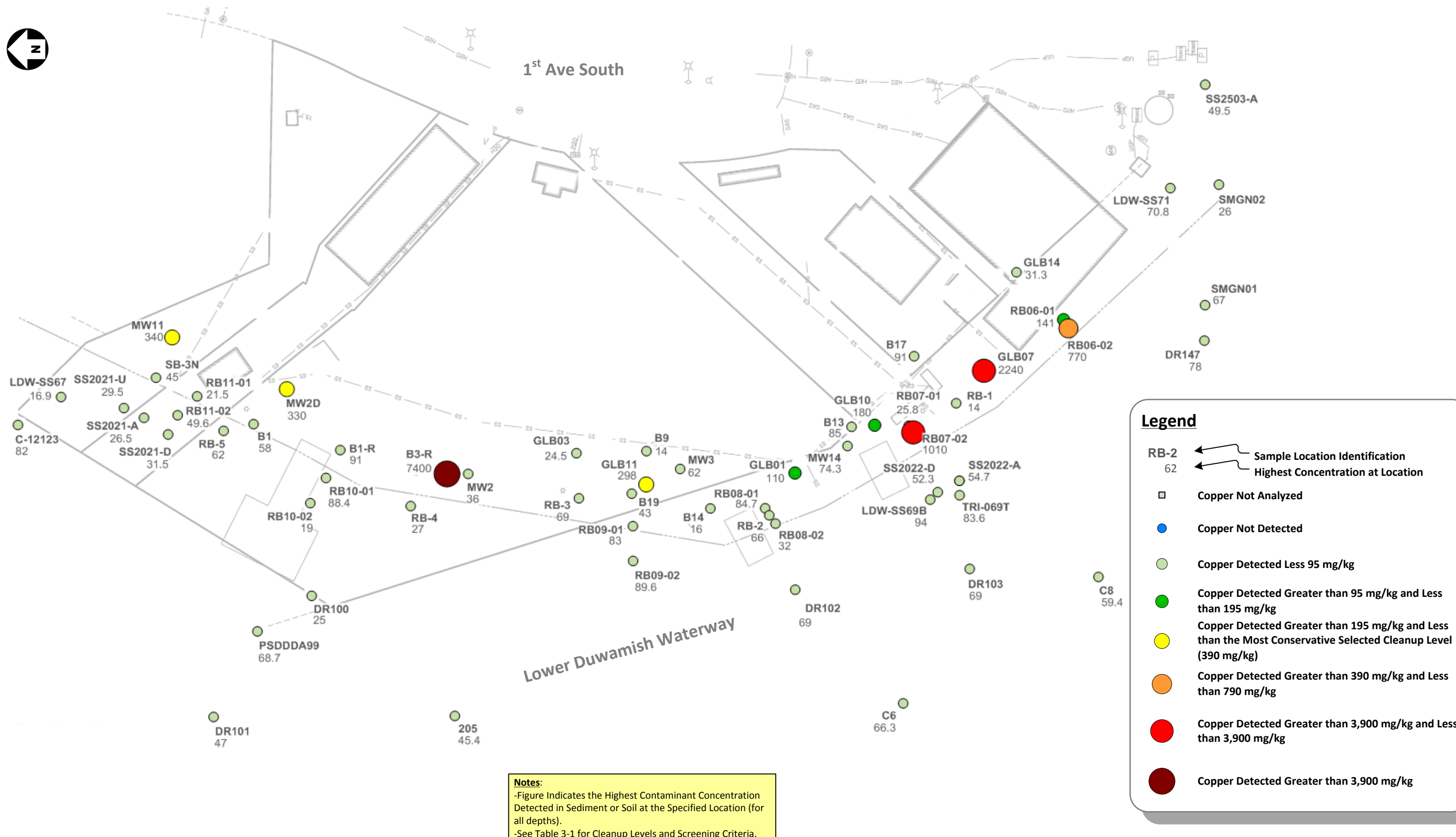
Note: See Table 2-1 for Cleanup Levels and Screening Criteria.



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Oil-Range Organics Concentrations in Groundwater
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

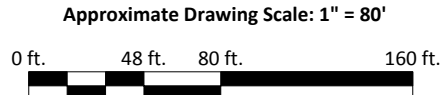
Figure 12-15

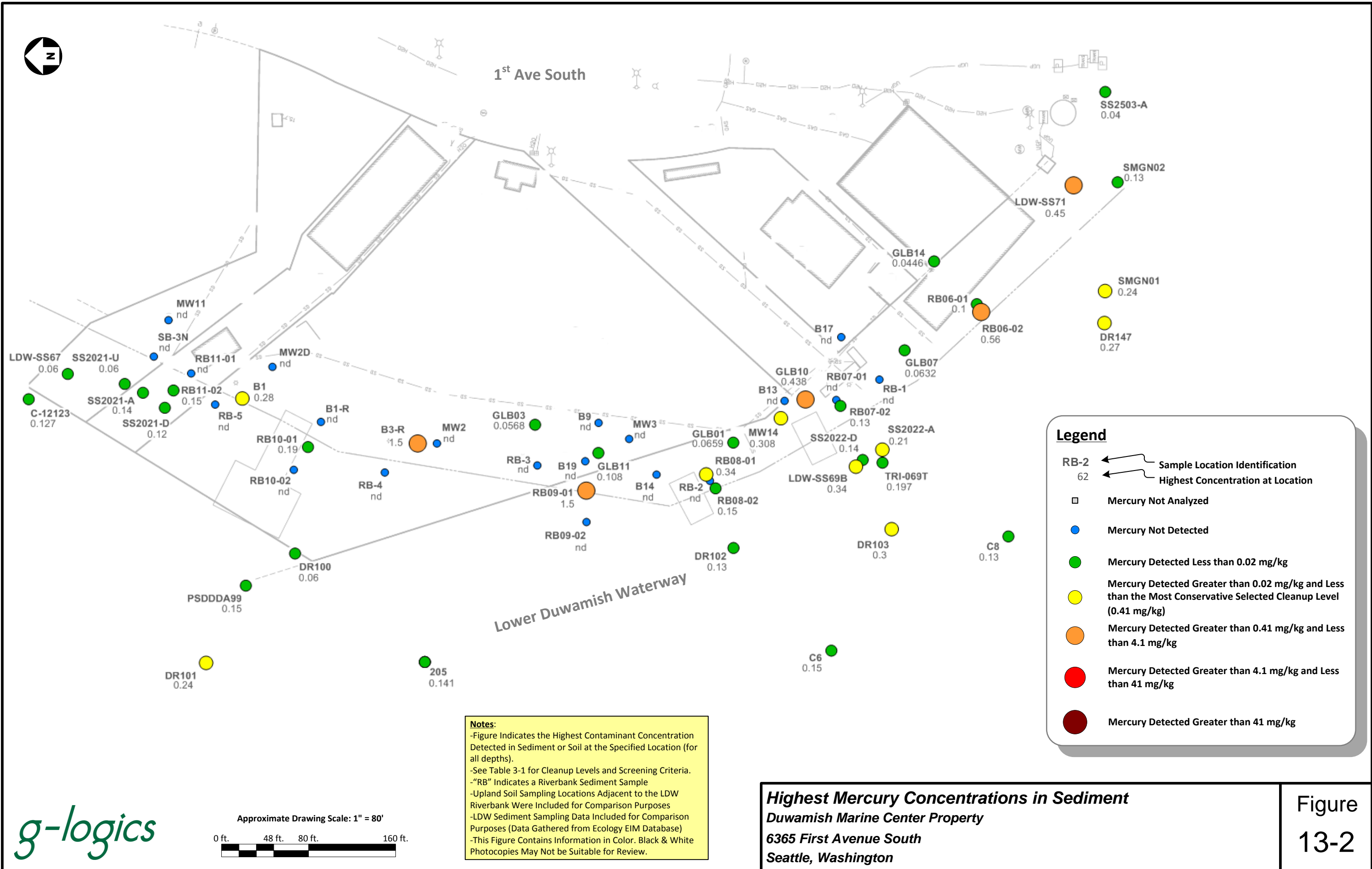


Notes:
 -Figure Indicates the Highest Contaminant Concentration Detected in Sediment or Soil at the Specified Location (for all depths).
 -See Table 3-1 for Cleanup Levels and Screening Criteria.
 -"RB" Indicates a Riverbank Sediment Sample
 -Upland Soil Sampling Locations Adjacent to the LDW Riverbank Were Included for Comparison Purposes
 -LDW Sediment Sampling Data Included for Comparison Purposes (Data Gathered from Ecology EIM Database)
 -This Figure Contains Information in Color. Black & White Photocopies May Not be Suitable for Review.

Highest Copper Concentrations in Sediment
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

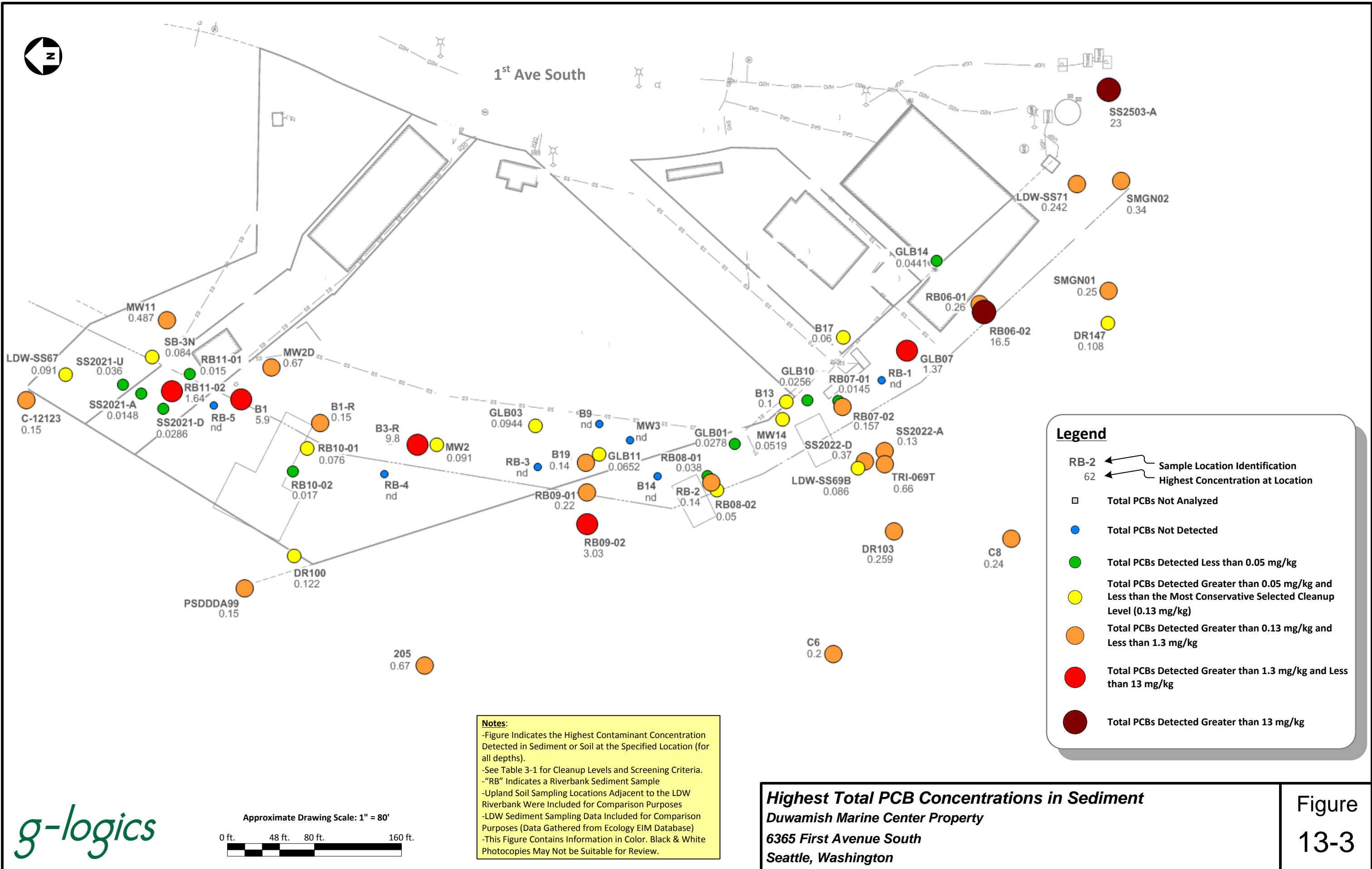
Figure
13-1





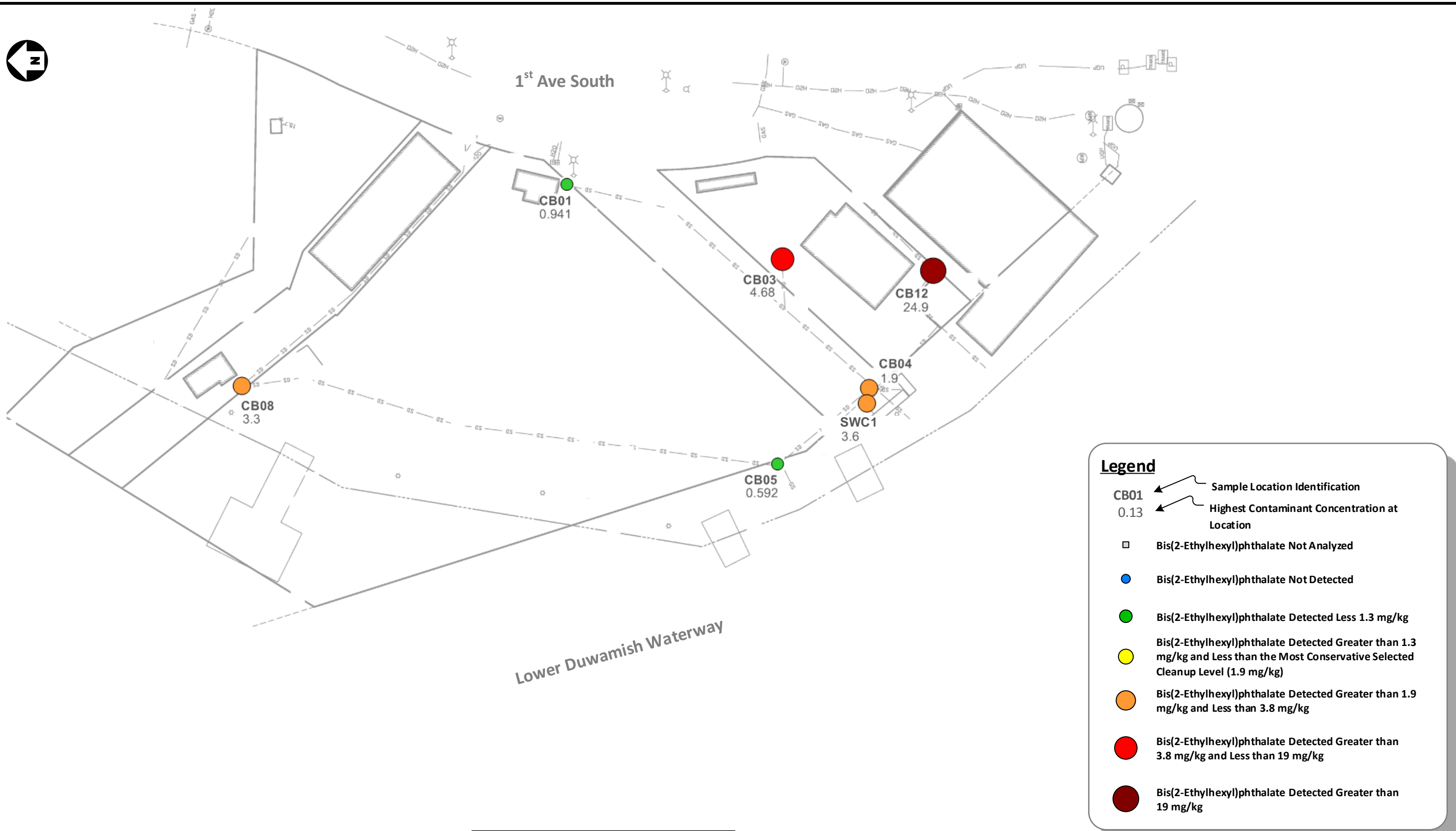
**Highest Mercury Concentrations in Sediment
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington**

**Figure
13-2**



Highest Total PCB Concentrations in Sediment
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

Figure
13-3



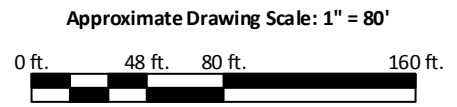
Legend

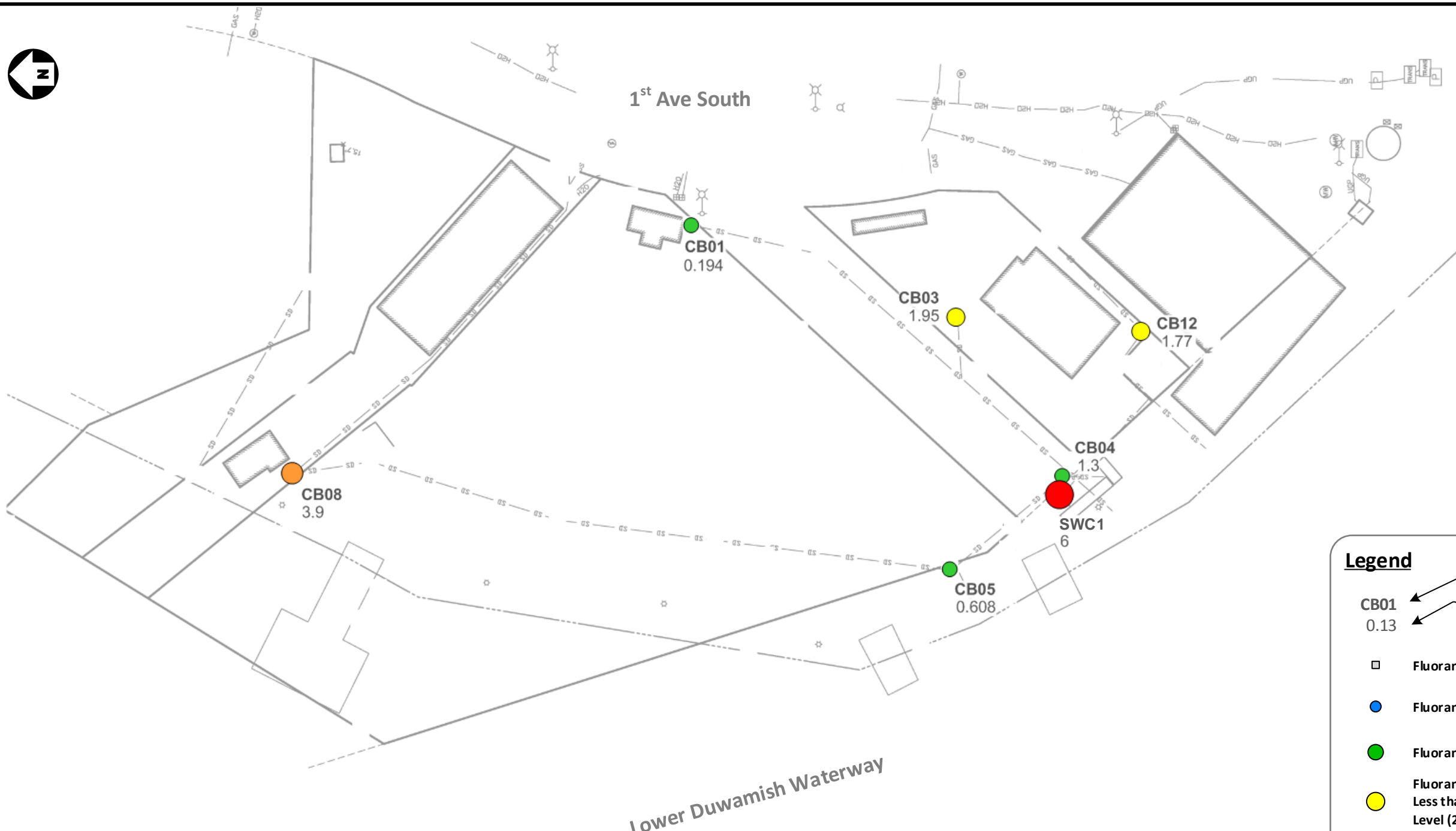
- Sample Location Identification
- Highest Contaminant Concentration at Location
- Bis(2-Ethylhexyl)phthalate Not Analyzed
- Bis(2-Ethylhexyl)phthalate Not Detected
- Bis(2-Ethylhexyl)phthalate Detected Less 1.3 mg/kg
- Bis(2-Ethylhexyl)phthalate Detected Greater than 1.3 mg/kg and Less than the Most Conservative Selected Cleanup Level (1.9 mg/kg)
- Bis(2-Ethylhexyl)phthalate Detected Greater than 1.9 mg/kg and Less than 3.8 mg/kg
- Bis(2-Ethylhexyl)phthalate Detected Greater than 3.8 mg/kg and Less than 19 mg/kg
- Bis(2-Ethylhexyl)phthalate Detected Greater than 19 mg/kg

Notes:
 -Figure Indicates the Highest Contaminant Concentration Detected in Catch-Basin Sediment at the Specified Location (for all depths).
 -See Table 5-1 for Cleanup Levels and Screening Criteria.
 -This Figure Contains Information in Color. Black & White Photocopies May Not be Suitable for Review.

Bis(2-Ethylhexyl)phthalate Concentrations in Catch-Basin Sediment
 Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

Figure
 14-1

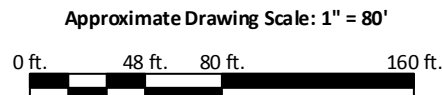




Legend

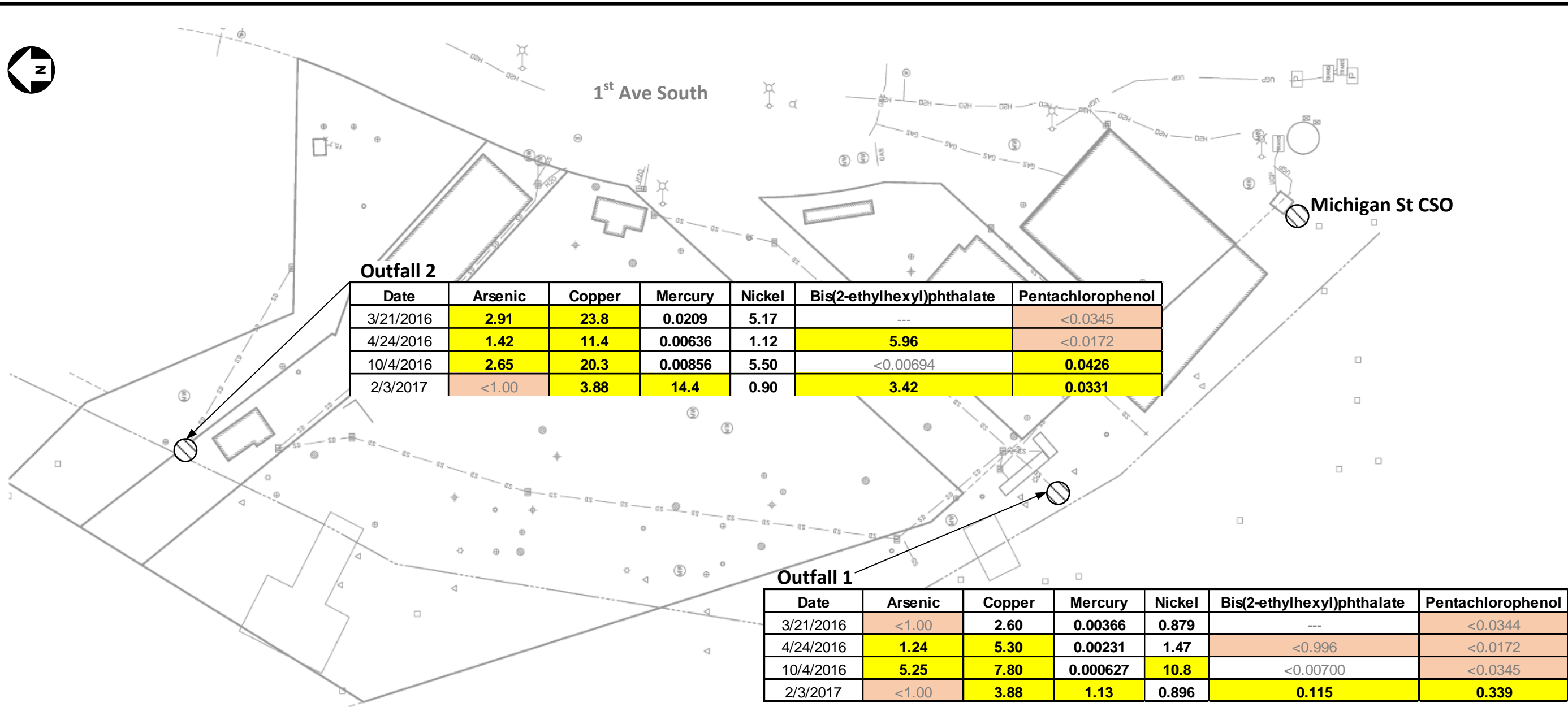
- Sample Location Identification
 Highest Contaminant Concentration at Location
- Fluoranthene Not Analyzed
- Fluoranthene Not Detected
- Fluoranthene Detected Less than 1.7 mg/kg
- Fluoranthene Detected Greater than 1.7 mg/kg and Less than the Most Conservative Selected Cleanup Level (2.5 mg/kg)
- Fluoranthene Detected Greater than 2.5 mg/kg and Less than 5 mg/kg
- Fluoranthene Detected Greater than 5 mg/kg and Less than 25 mg/kg
- Fluoranthene Detected Greater than 25 mg/kg

Notes:
 -Figure Indicates the Highest Contaminant Concentration Detected in Catch-Basin Sediment at the Specified Location (for all depths).
 -See Table 5-1 for Cleanup Levels and Screening Criteria.
 -This Figure Contains Information in Color. Black & White Photocopies May Not be Suitable for Review.



Fluoranthene Concentrations in Catch-Basin Sediment
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

Figure
14-2



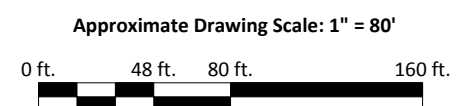
Sample Legend

Outfall Location
 Sample Location Identification
 Contaminant Detected Greater than the Most Conservative Selected Cleanup Level
 Contaminant Detected Less than the Most Conservative Selected Cleanup Level
 Laboratory Method Reporting Limit is Greater Than the Most Conservative Selected Cleanup Level
 Not Sampled/Analyzed

Outfall 1

Date	Arsenic
3/21/2016	1.24
4/24/2016	0.08
10/4/2016	<1.00
2/3/2017	---

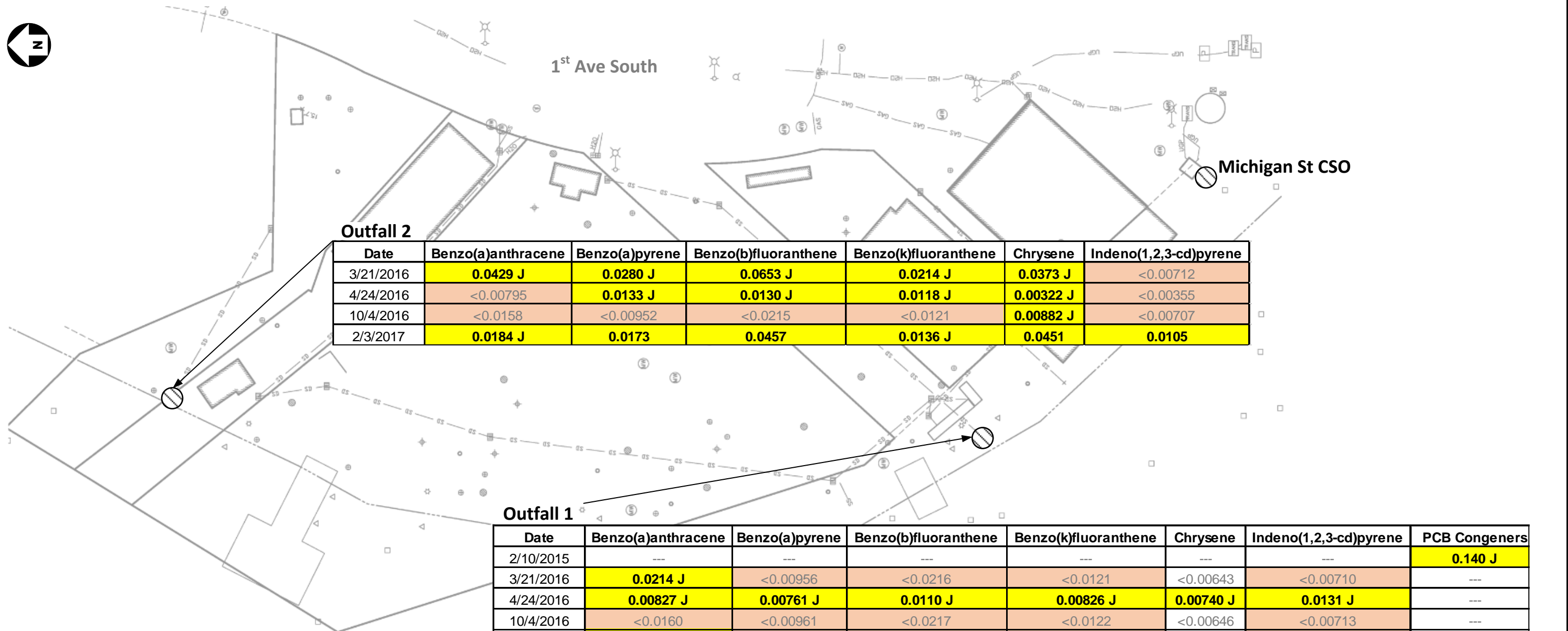
Sample Date



Notes:
 -See Table 6-1 for Cleanup Levels and Screening Criteria.
 -This Figure Contains Information in Color. Black & White Photocopies May Not be Suitable for Review.

Metal and SVOC Concentrations in Outfall Water
 Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

Figure
 15-1



Outfall 2

Date	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Indeno(1,2,3-cd)pyrene
3/21/2016	0.0429 J	0.0280 J	0.0653 J	0.0214 J	0.0373 J	<0.00712
4/24/2016	<0.00795	0.0133 J	0.0130 J	0.0118 J	0.00322 J	<0.00355
10/4/2016	<0.0158	<0.00952	<0.0215	<0.0121	0.00882 J	<0.00707
2/3/2017	0.0184 J	0.0173	0.0457	0.0136 J	0.0451	0.0105

Outfall 1

Date	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Indeno(1,2,3-cd)pyrene	PCB Congeners
2/10/2015	---	---	---	---	---	---	0.140 J
3/21/2016	0.0214 J	<0.00956	<0.0216	<0.0121	<0.00643	<0.00710	---
4/24/2016	0.00827 J	0.00761 J	0.0110 J	0.00826 J	0.00740 J	0.0131 J	---
10/4/2016	<0.0160	<0.00961	<0.0217	<0.0122	<0.00646	<0.00713	---
2/3/2017	0.00579 J	<0.00241	<0.00544	<0.00305	<0.00162	<0.00179	---

Sample Legend

⊗ Outfall Location

Sample Location Identification

Contaminant Detected Greater than the Most Conservative Selected Cleanup Level

Contaminant Detected Less than the Most Conservative Selected Cleanup Level

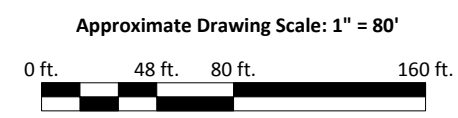
Laboratory Method Reporting Limit is Greater Than the Most Conservative Selected Cleanup Level

Not Sampled/Analyzed

Sample Date

Outfall 1

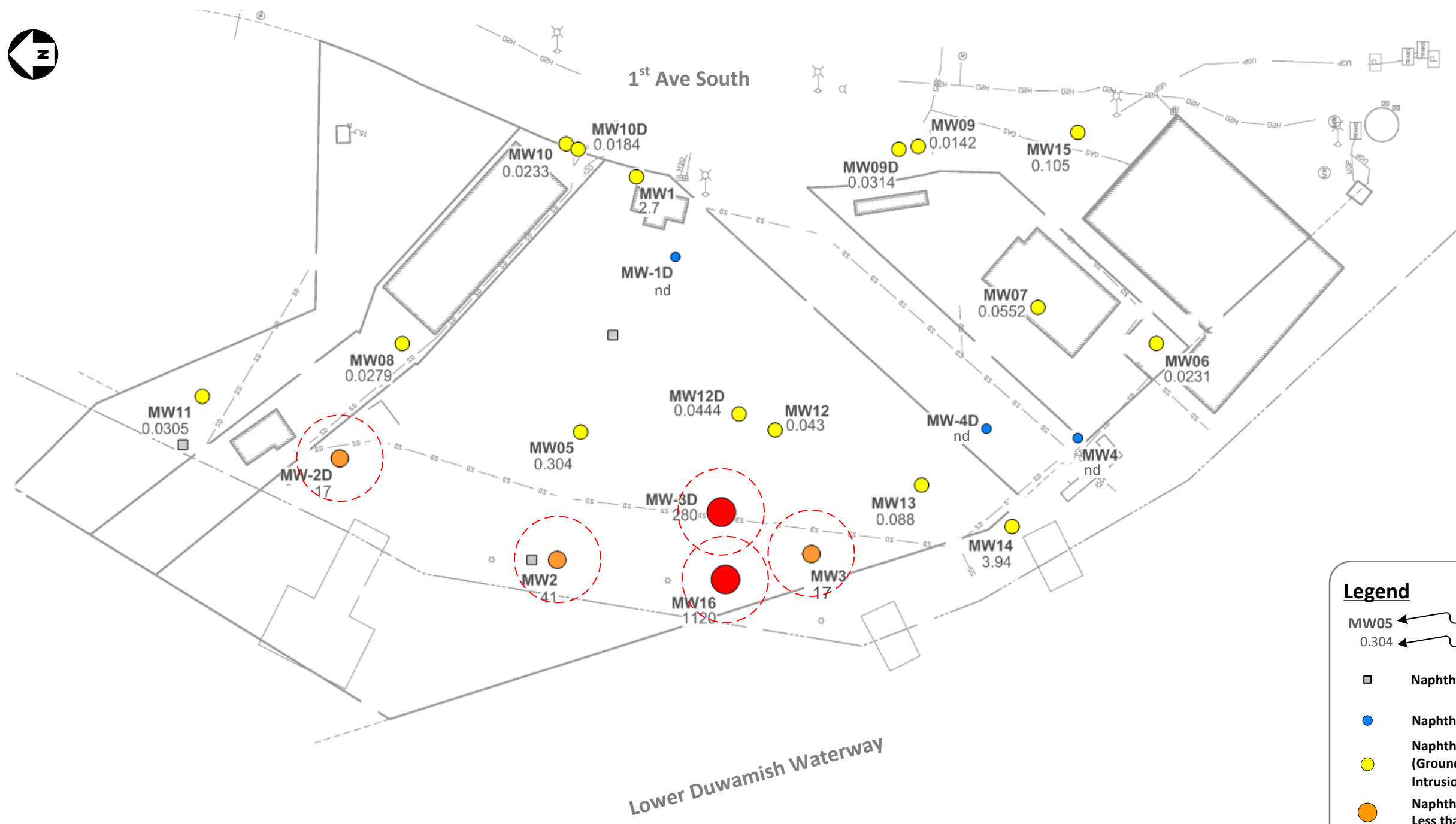
Date	Arsenic
3/21/2016	1.24
4/24/2016	0.08
10/4/2016	<1.00
2/3/2017	---



Notes:
 -See Table 6-1 for Cleanup Levels and Screening Criteria.
 -This Figure Contains Information in Color. Black & White Photocopies May Not be Suitable for Review.

cPAH and PCB Congener Concentrations in Outfall Water
 Duwamish Marine Center Property
 6365 First Avenue South
 Seattle, Washington

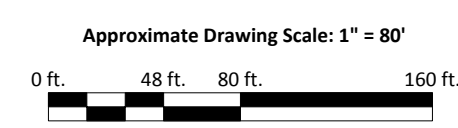
Figure
 15-2



Legend

- MW05 0.304 ← Sample Location Identification
- MW05 0.304 ← Highest Groundwater Sample Concentration
- Naphthalene Not Analyzed
- Naphthalene Not Detected
- Naphthalene Detected Below 8.93 ug/L (Groundwater Screening Level for Potential Vapor Intrusion)
- Naphthalene Detected Greater than 8.93 mg/kg and Less than 100 ug/L/kg
- Naphthalene Detected Greater than 100 ug/L
- 30 Foot Lateral Inclusion Zone for Potential Petroleum Vapor Intrusion

Notes:
 -Figure Indicates the Highest Contaminant Concentration Detected in Groundwater at the Specified Location (for all dates).
 -See Table 7 for Screening Levels and Screening Criteria for Potential Vapor Intrusion.
 -Only Naphthalene Analyzed by Method 8270 Included in Figure.
 -This Figure Contains Information in Color. Black & White Photocopies May Not be Suitable for Review.



Highest Naphthalene Concentrations in Groundwater for Potential Vapor Intrusion Duwamish Marine Center Property 6365 First Avenue South Seattle, Washington

Figure 16



Western Plume

Lead and Zinc
Total PCB Aroclors
Acenaphthene
Fluorene
cPAHs
DRO and ORO

Northern Plume

Total PCB Congeners

Central Plume

Arsenic

Southern Plume

Pentachlorophenol

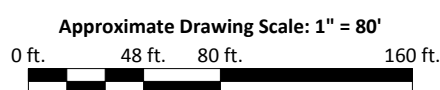
UW2007-205
UW2013-205

C6

C8

C8

Project File: 01-0979-G-F17.vsd



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Groundwater-Plume Areas
Duwamish Marine Center Property
6365 First Avenue South
Seattle, Washington

Figure
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