

Chemistry Legend

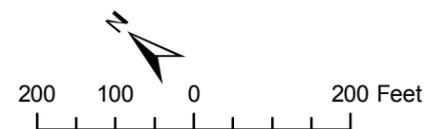
Naphthalene - Surface Water		Naphthalene - Transition Water		Naphthalene - Ground Water	
total_or_dissolved	Exceedance_class	total_or_dissolved	Exceedance_class	total_or_dissolved	Exceedance_class
Orange square	D, Acute (0.19 mg/l)	Orange circle	D, Acute (0.19 mg/l)	Orange triangle	D, Acute (0.19 mg/l)
Light orange square	T, Acute (0.19 mg/l)	Light orange circle	T, Acute (0.19 mg/l)	Light orange triangle	T, Acute (0.19 mg/l)
Yellow square	D, Chronic (0.012 mg/l)	Yellow circle	D, Chronic (0.012 mg/l)	Yellow triangle	D, Chronic (0.012 mg/l)
Light yellow square	T, Chronic (0.012 mg/l)	Light yellow circle	T, Chronic (0.012 mg/l)	Light yellow triangle	T, Chronic (0.012 mg/l)
Purple square	D, MCLx10 (0.002 mg/l)	Purple circle	D, MCLx10 (0.002 mg/l)	Purple triangle	D, MCLx10 (0.002 mg/l)
Light purple square	T, MCLx10 (0.002 mg/l)	Light purple circle	T, MCLx10 (0.002 mg/l)	Light purple triangle	T, MCLx10 (0.002 mg/l)
White square with black border	D, None Exceeded	White circle with black border	D, None Exceeded	White triangle with black border	D, None Exceeded
White square	T, None Exceeded	White circle	T, None Exceeded	White triangle	T, None Exceeded
Grey square	D, Not Detected	Grey circle	D, Not Detected	Grey triangle	D, Not Detected
Light grey square	T, Not Detected	Light grey circle	T, Not Detected	Light grey triangle	T, Not Detected

REVISED DRAFT

DO NOT QUOTE OR CITE
 This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

Notes:

1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.

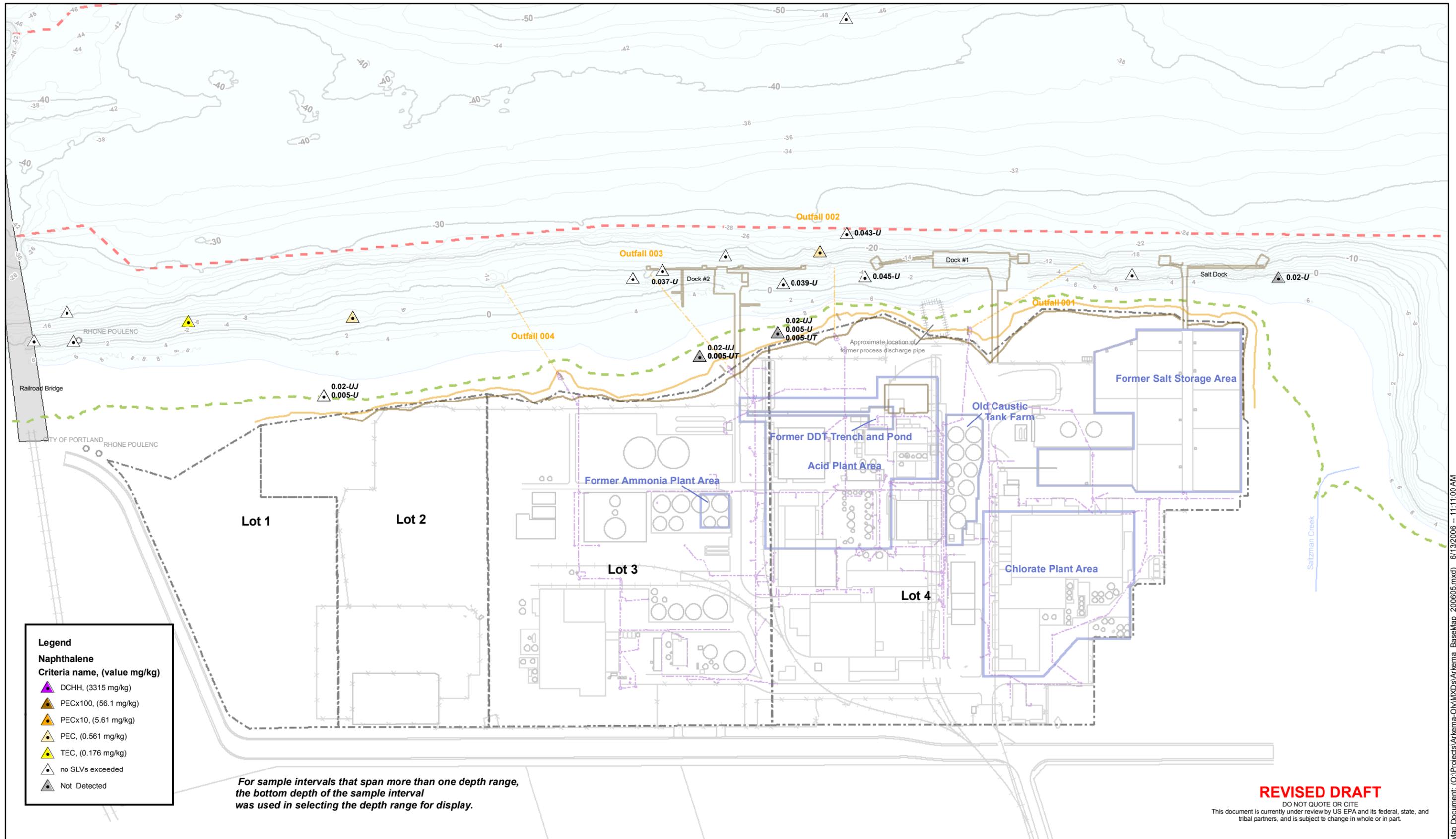


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006.

Orange line	Ordinary High Water	Green dashed line	12ft_Contour	Red dashed line	Navigation Channel
Dark blue line	Top of Bank	Black dashed line	Property Lines	Blue line	River
Purple dashed line	E-Sewer-L	Blue square	Outfalls		
Yellow dashed line	Storm Drain				

Map-165
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Napthalene

Map Document: (O:\Projects\Arkema-01\MXDs\ArkemaSW_DotMap_Screened_20060622.mxd) 6/23/2006 - 6:06:12 PM



Legend

Naphthalene

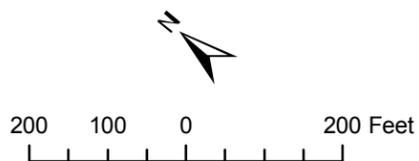
Criteria name, (value mg/kg)

- DCHH, (3315 mg/kg)
- PECx100, (56.1 mg/kg)
- PECx10, (5.61 mg/kg)
- PEC, (0.561 mg/kg)
- TEC, (0.176 mg/kg)
- no SLVs exceeded
- Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

REVISED DRAFT

DO NOT QUOTE OR CITE
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

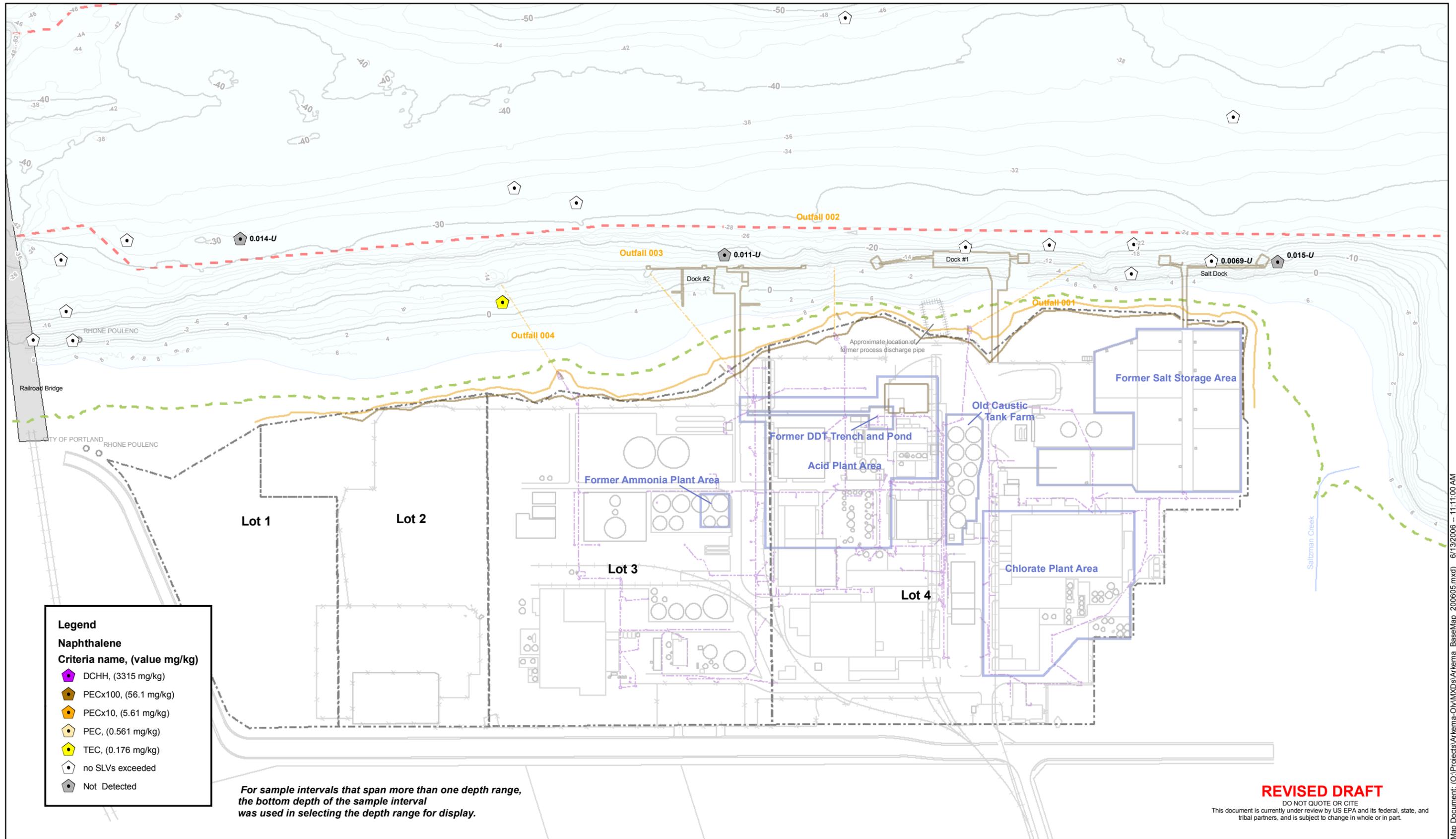


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

Ordinary High Water	12ft Contour	Navigation Channel
Top of Bank	Bridges	River
E-Sewer-L	Property Lines	Outfalls
Storm Drain		

Map-167
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Shallow Subsurface (1-4 ft)
Naphthalene

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 11:11:00 AM



Legend

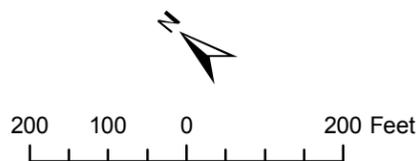
Naphthalene

Criteria name, (value mg/kg)

- ◆ DCHH, (3315 mg/kg)
- ◆ PECx100, (56.1 mg/kg)
- ◆ PECx10, (5.61 mg/kg)
- ◆ PEC, (0.561 mg/kg)
- ◆ TEC, (0.176 mg/kg)
- ◆ no SLVs exceeded
- ◆ Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

REVISED DRAFT
DO NOT QUOTE OR CITE
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

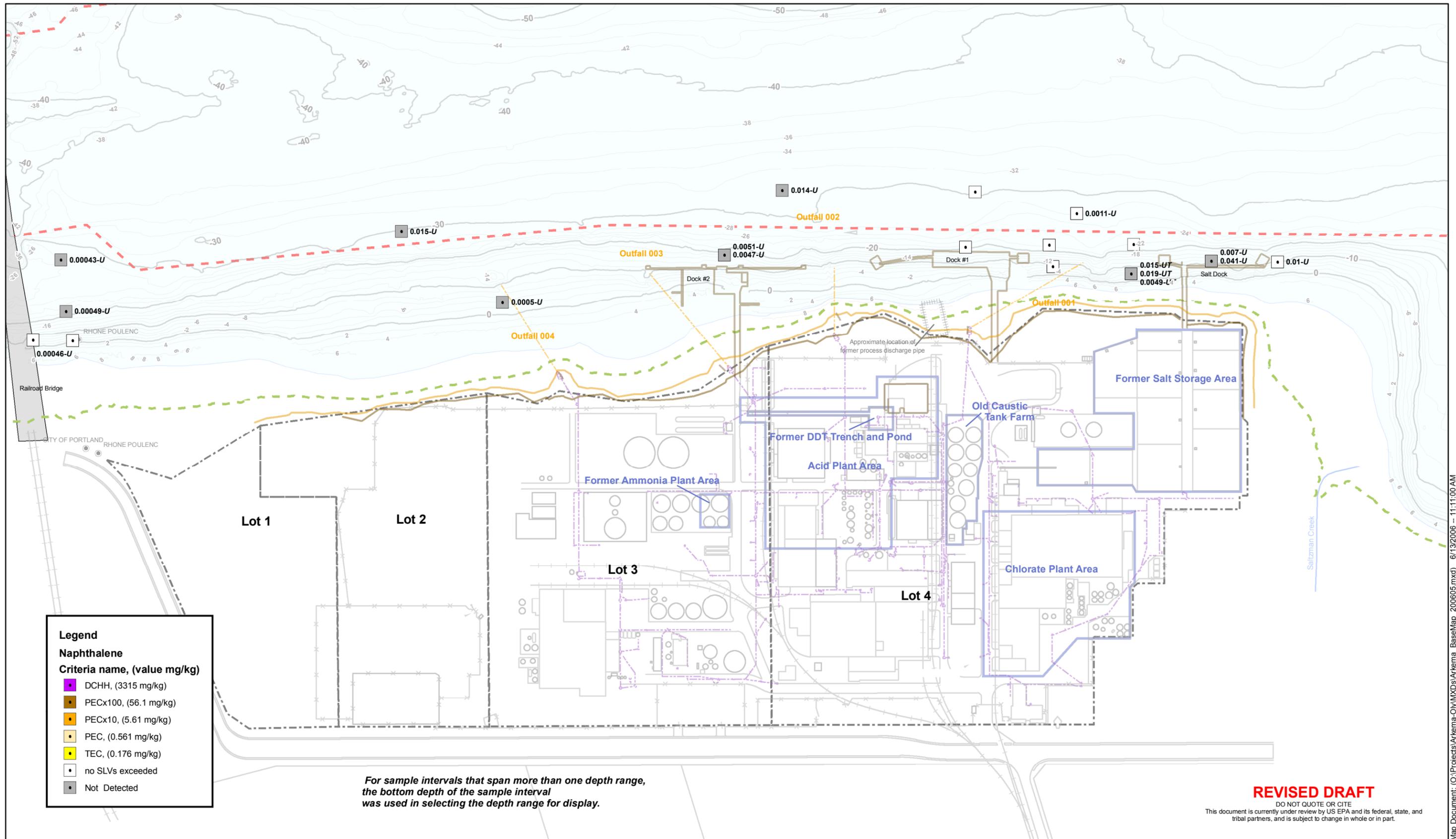


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

— Ordinary High Water	- - - 12ft Contour	- - - Navigation Channel
— Top of Bank	— Bridges	— River
- - - E-Sewer-L	— Property Lines	● Outfalls
- - - Storm Drain	- - - Property Lines	●

Map-168
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Intermediate Subsurface (4-8 ft)
Naphthalene

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 -- 11:11:00 AM



Legend

Naphthalene

Criteria name, (value mg/kg)

- DCHH, (3315 mg/kg)
- PECx100, (56.1 mg/kg)
- PECx10, (5.61 mg/kg)
- PEC, (0.561 mg/kg)
- TEC, (0.176 mg/kg)
- no SLVs exceeded
- Not Detected

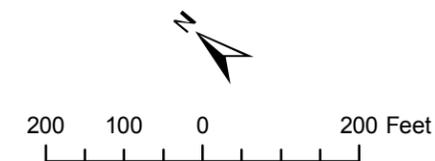
For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

REVISED DRAFT

DO NOT QUOTE OR CITE
This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

— Ordinary High Water	12ft_Contour	Navigation Channel
— Top of Bank	— Bridges	— River
— E-Sewer-L	— Property Lines	— Outfalls
— Storm Drain	—	—



Map-169
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Deep Subsurface (> 8 ft)
Naphthalene

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 11:11:00 AM