

Chemistry Legend

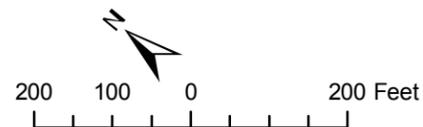
Aluminum - Surface Water total_or_dissolved, Exceedance_class	Aluminum - Transition Water total_or_dissolved, Exceedance_class	Aluminum - Ground Water total_or_dissolved, Exceedance_class
<ul style="list-style-type: none"> D, Acute (0.75 mg/l) T, Acute (0.75 mg/l) D, MCLx10 (0.5 mg/l) T, MCLx10 (0.5 mg/l) D, Chronic (0.087 mg/l) T, Chronic (0.087 mg/l) D, None Exceeded T, None Exceeded D, Not Detected T, Not Detected 	<ul style="list-style-type: none"> D, Acute (0.75 mg/l) T, Acute (0.75 mg/l) D, MCLx10 (0.5 mg/l) T, MCLx10 (0.5 mg/l) D, Chronic (0.087 mg/l) T, Chronic (0.087 mg/l) D, None Exceeded T, None Exceeded D, Not Detected T, Not Detected 	<ul style="list-style-type: none"> D, Acute (0.75 mg/l) T, Acute (0.75 mg/l) D, MCLx10 (0.5 mg/l) T, MCLx10 (0.5 mg/l) D, Chronic (0.087 mg/l) T, Chronic (0.087 mg/l) D, None Exceeded T, None Exceeded D, Not Detected T, Not Detected
<p>Screening Level Contours</p> <ul style="list-style-type: none"> Queried Where Approximate 		

REVISED DRAFT

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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:

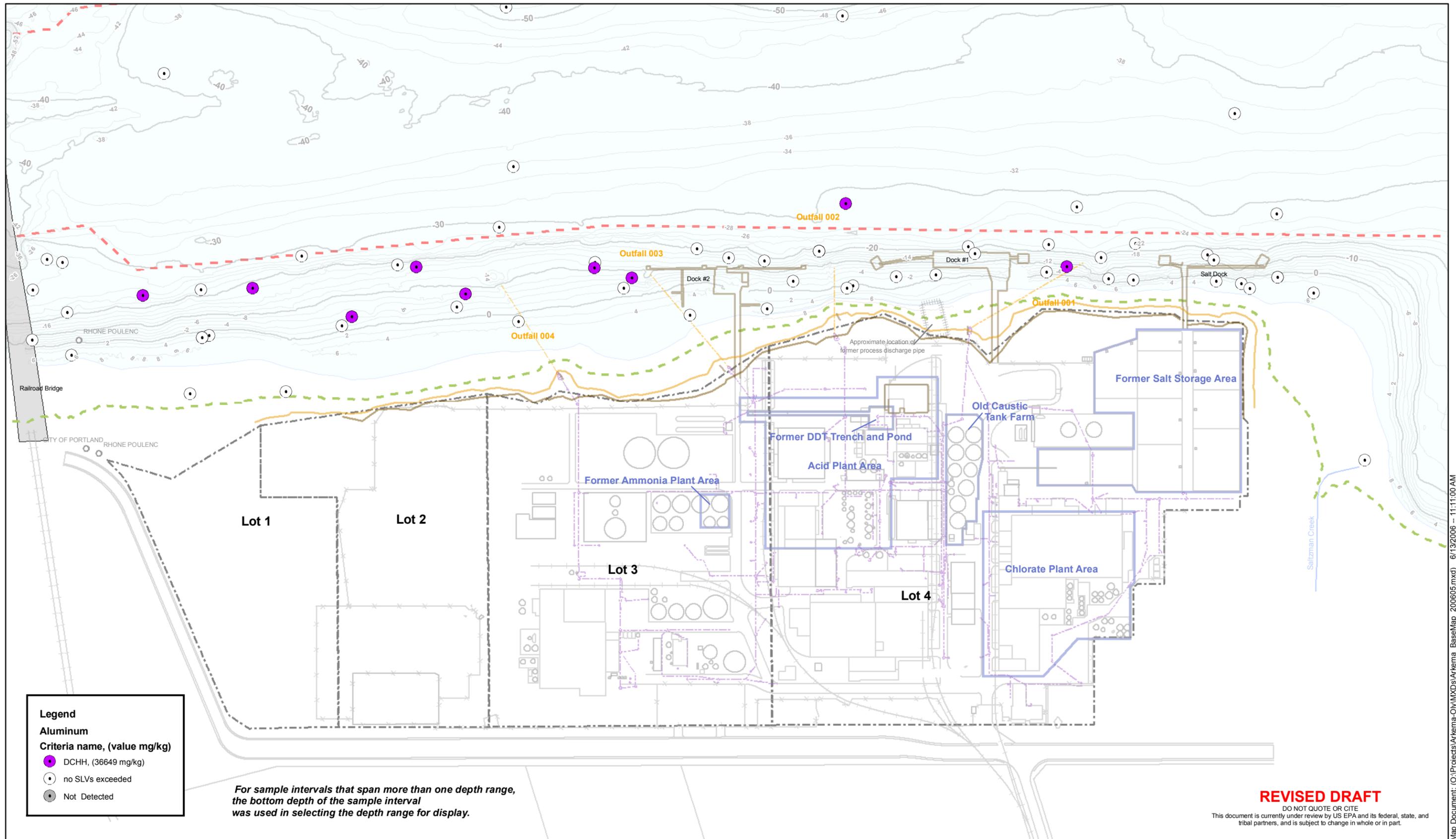
1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.



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.

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

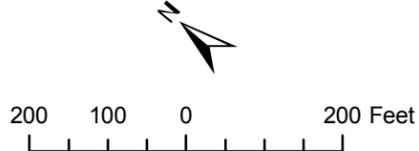
Map-282
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Aluminum



Legend
Aluminum
Criteria name, (value mg/kg)
 ● DCHH, (36649 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.

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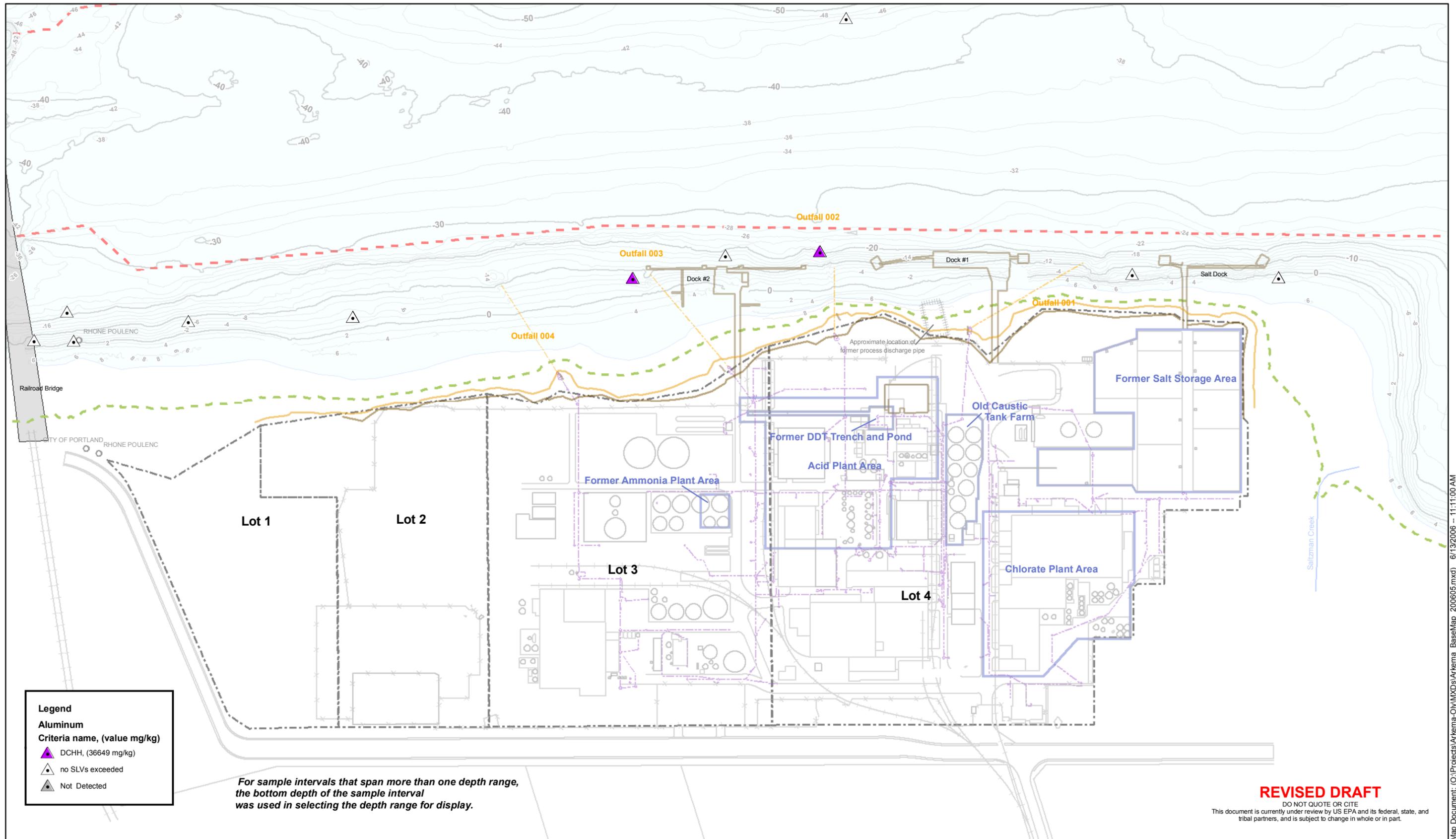


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 Units: International Feet.
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 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

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

Map-283
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Surface (0-1 ft)
Aluminum

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



Legend

Aluminum

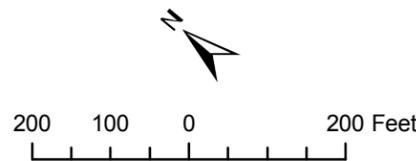
Criteria name, (value mg/kg)

- DCHH, (36649 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.

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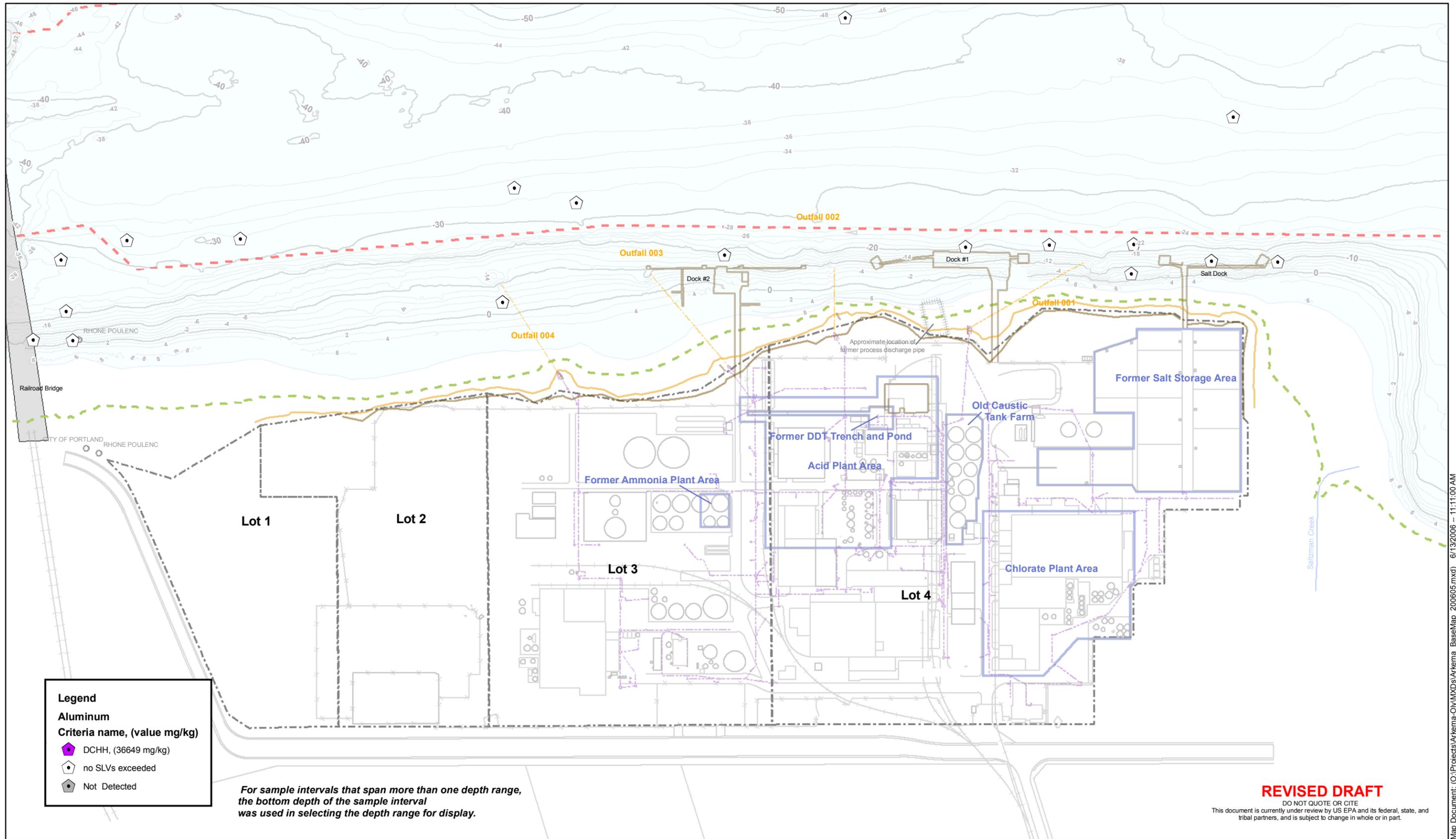


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Ordinary High Water	12ft Contour	Navigation Channel
Top of Bank	Bridges	River
E-Sewer-L	Property Lines	Outfalls
Storm Drain		

Map-284
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Shallow Subsurface (1-4 ft)
Aluminum

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



Legend

Aluminum

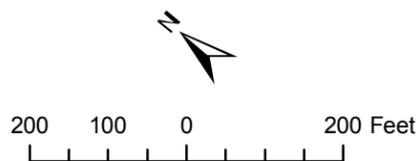
Criteria name, (value mg/kg)

- ◆ DCHH, (36649 mg/kg)
- ◆ no SLVs exceeded
- ◆ Not Detected

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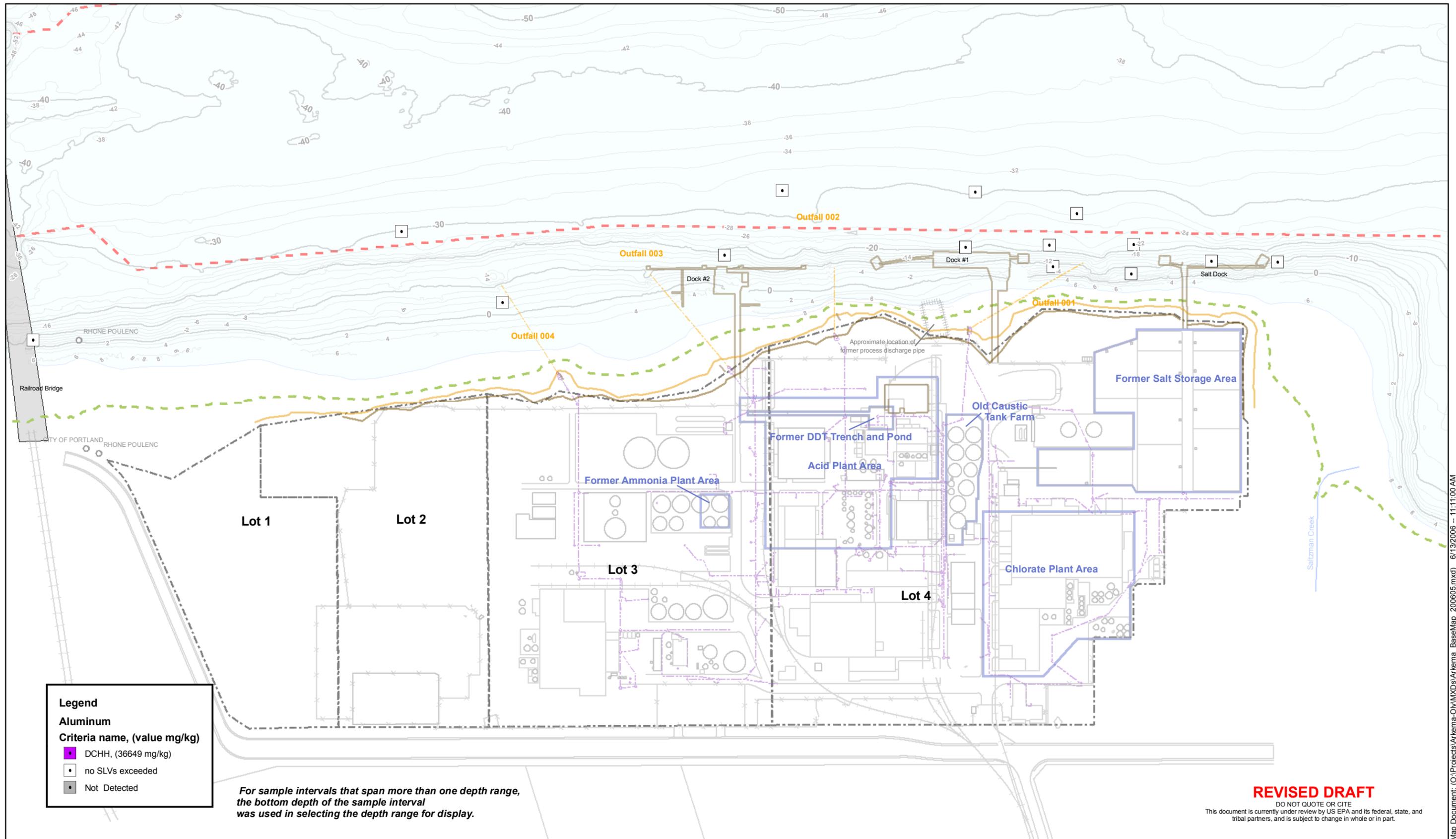


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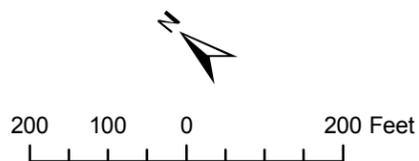
- Ordinary High Water
- Top of Bank
- - - E-Sewer-L
- - - Storm Drain
- - - 12ft Contour
- Bridges
- Property Lines
- - - Navigation Channel
- River
- Outfalls

Map-285
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Intermediate Subsurface (4-8 ft)
Aluminum

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



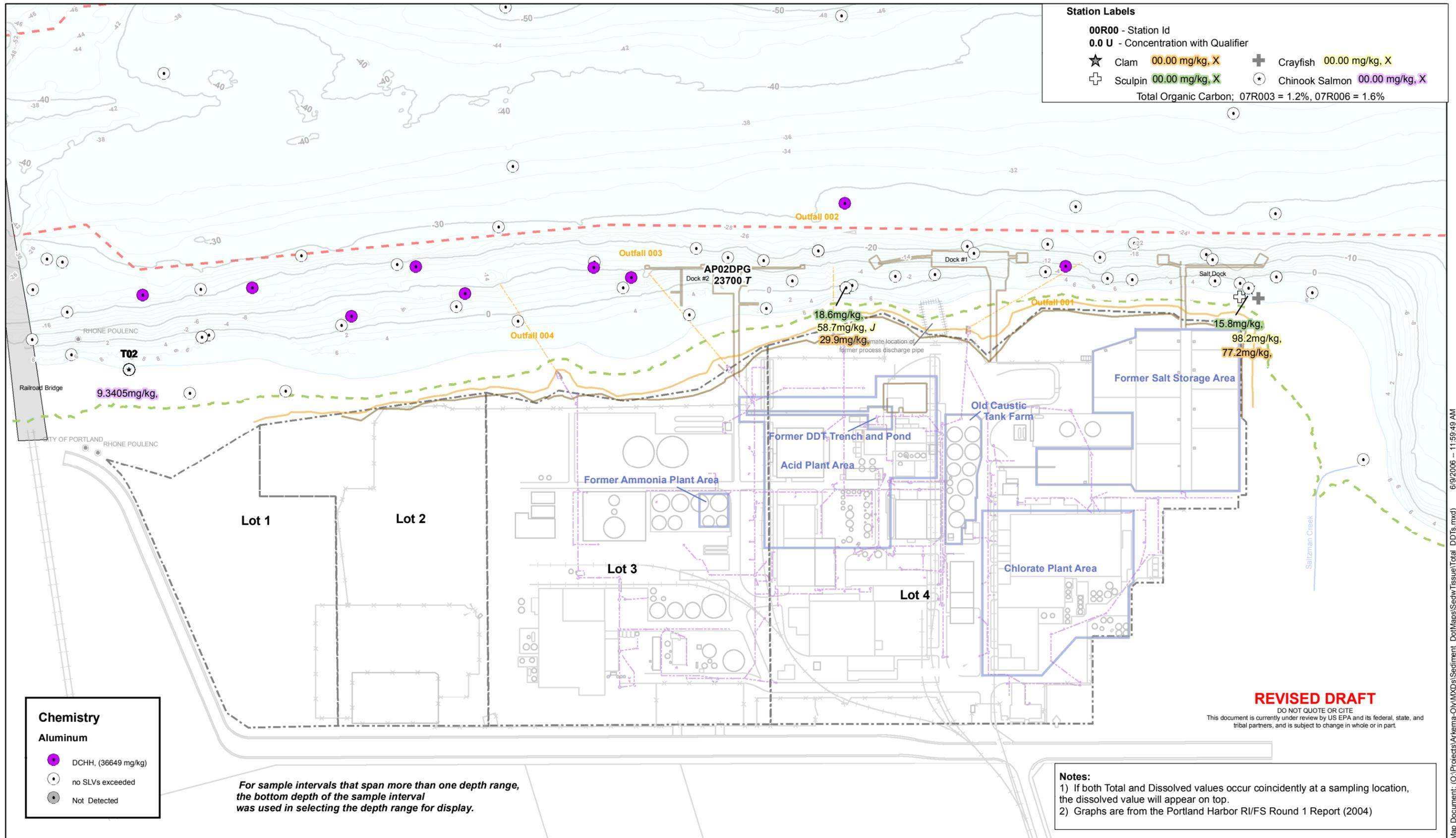
Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 11:11:00 AM



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

Map-286
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Deep Subsurface (> 8 ft)
Aluminum



Station Labels

00R00 - Station Id
 0.0 U - Concentration with Qualifier

★ Clam	00.00 mg/kg, X	+	Crayfish	00.00 mg/kg, X	
+	Sculpin	00.00 mg/kg, X	★	Chinook Salmon	00.00 mg/kg, X

Total Organic Carbon: 07R003 = 1.2%, 07R006 = 1.6%

Chemistry

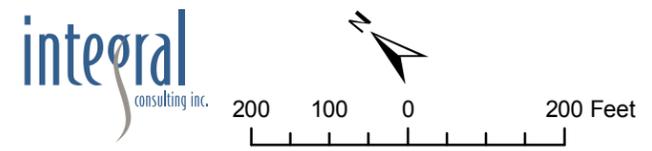
Aluminum

●	DCHH, (36649 mg/kg)
○	no SLVs exceeded
○	Not Detected

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- Notes:**
- 1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.
 - 2) Graphs are from the Portland Harbor RI/FS Round 1 Report (2004)



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

Map-287
Arkema Site
Surface Sediment & Tissue Samples
Aluminum
Depth Range: Surface (0 - 1 ft)

Map Document: (O:\Projects\Arkema-01\MapDocs\Sediment_DotMaps\SedW\Tissue\Total_DDTs.mxd) 6/9/2006 - 11:59:49 AM