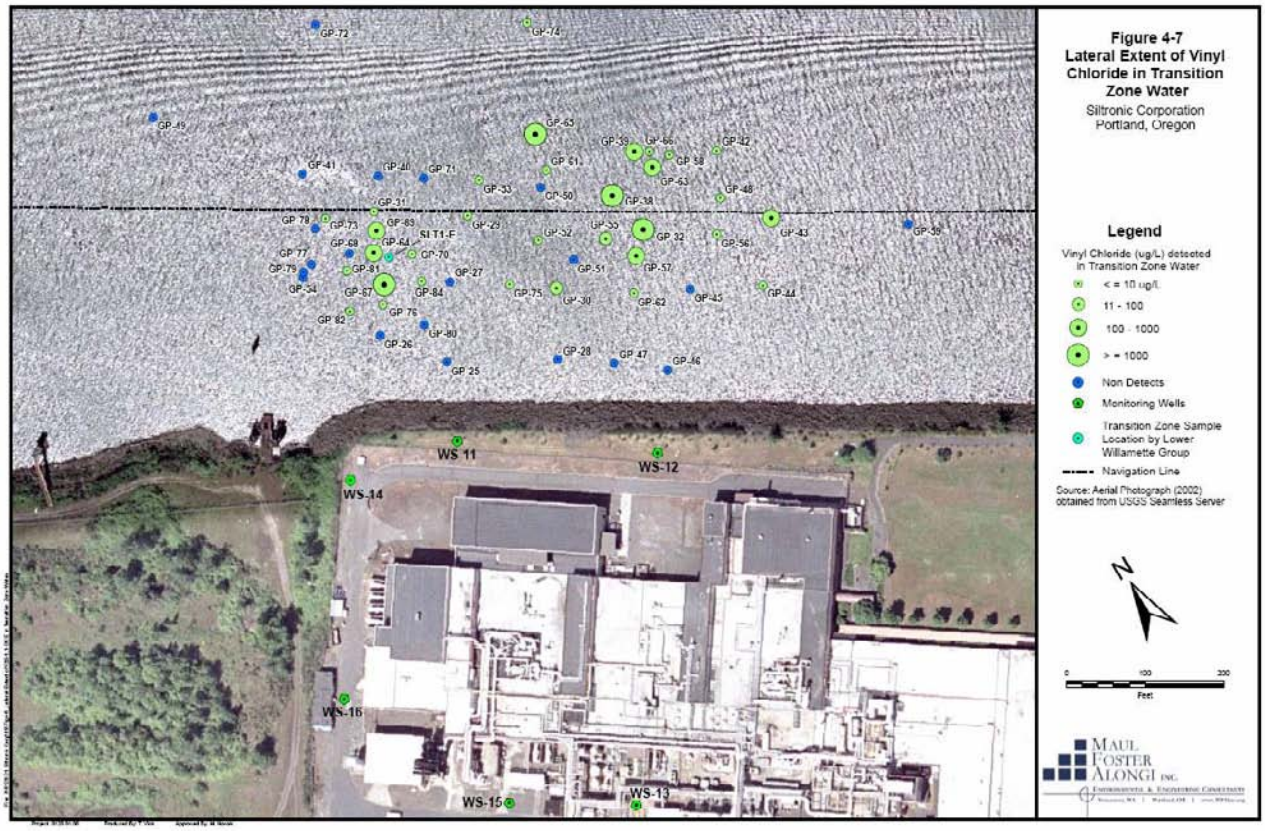
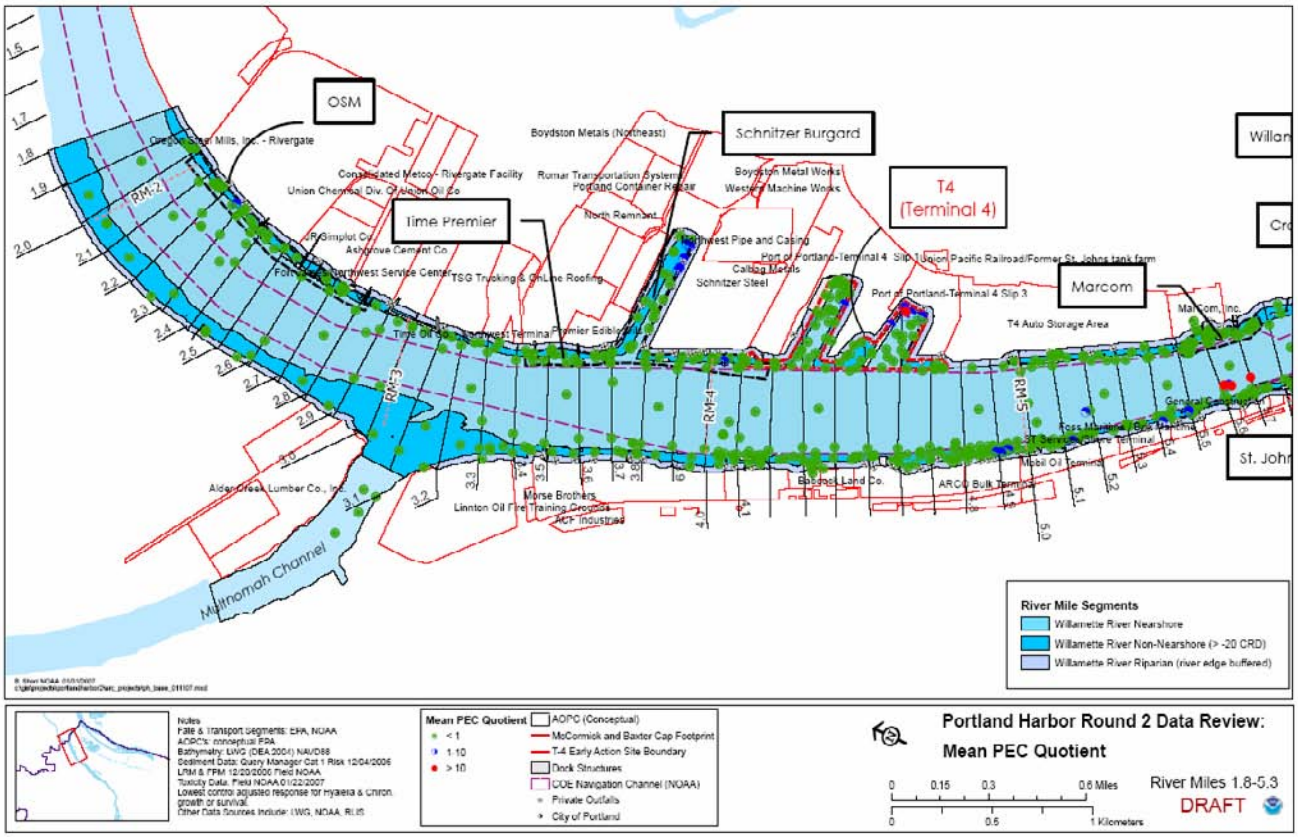
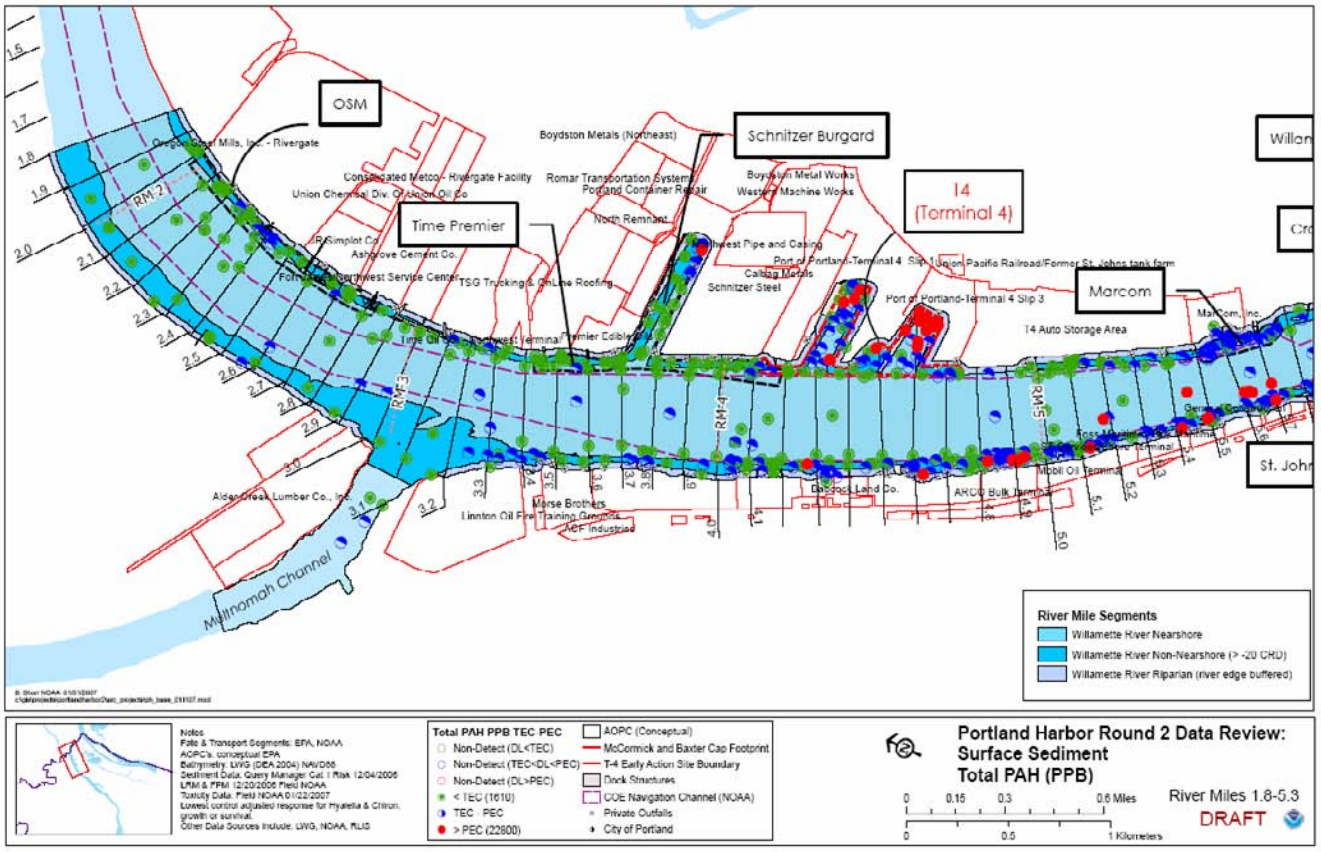
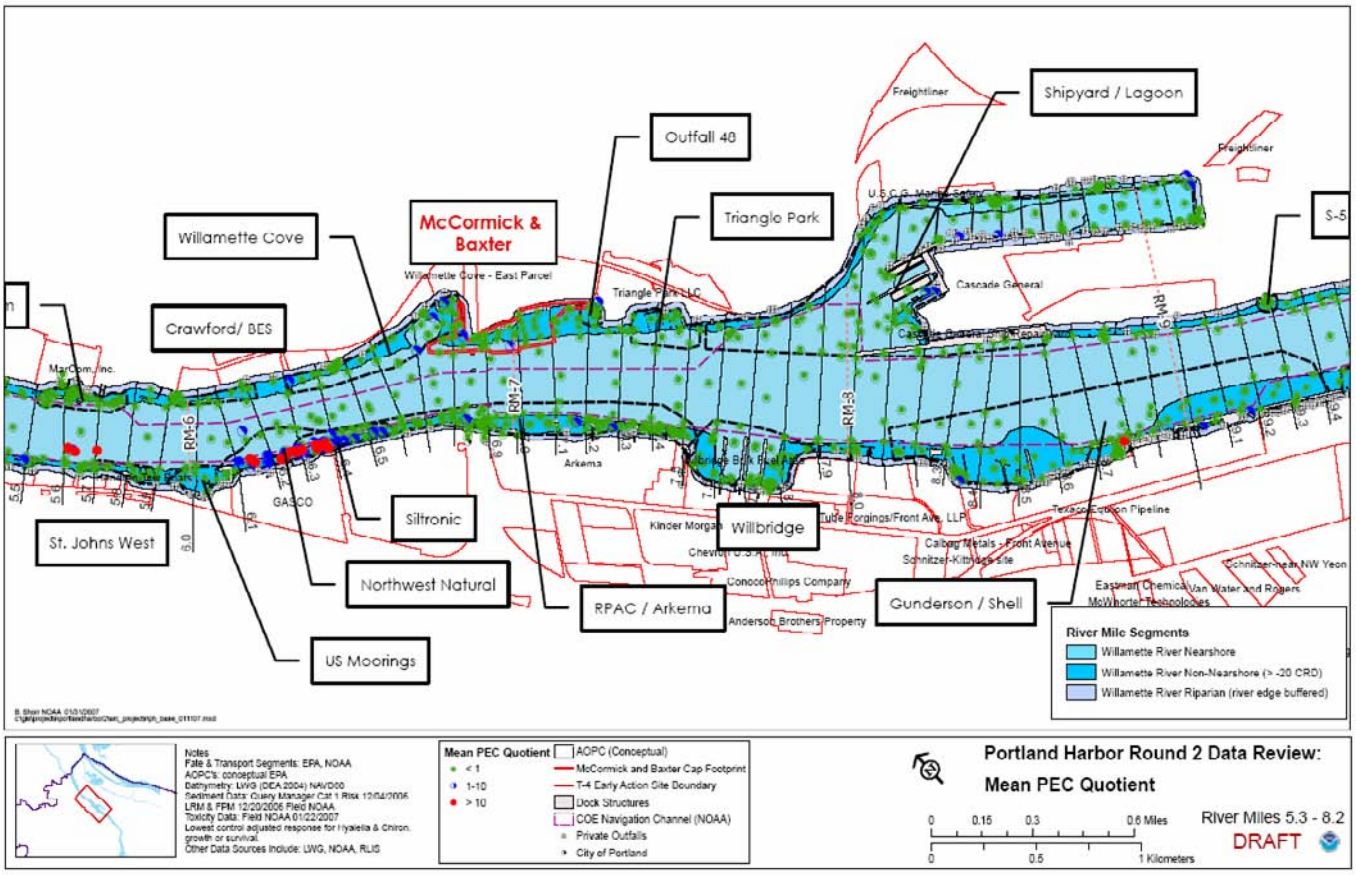
Figures
April 2007 Siltronic Upland RI Report, VC extent in TZW:

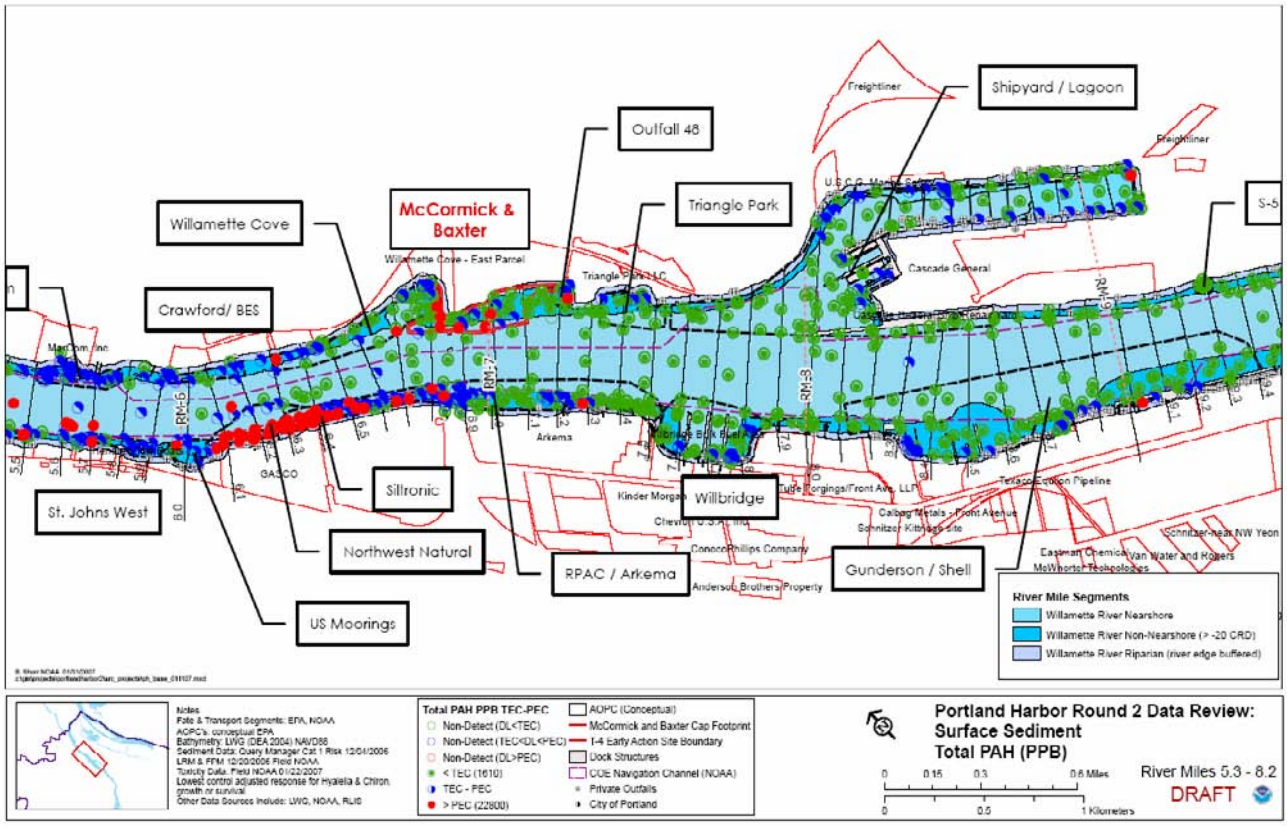


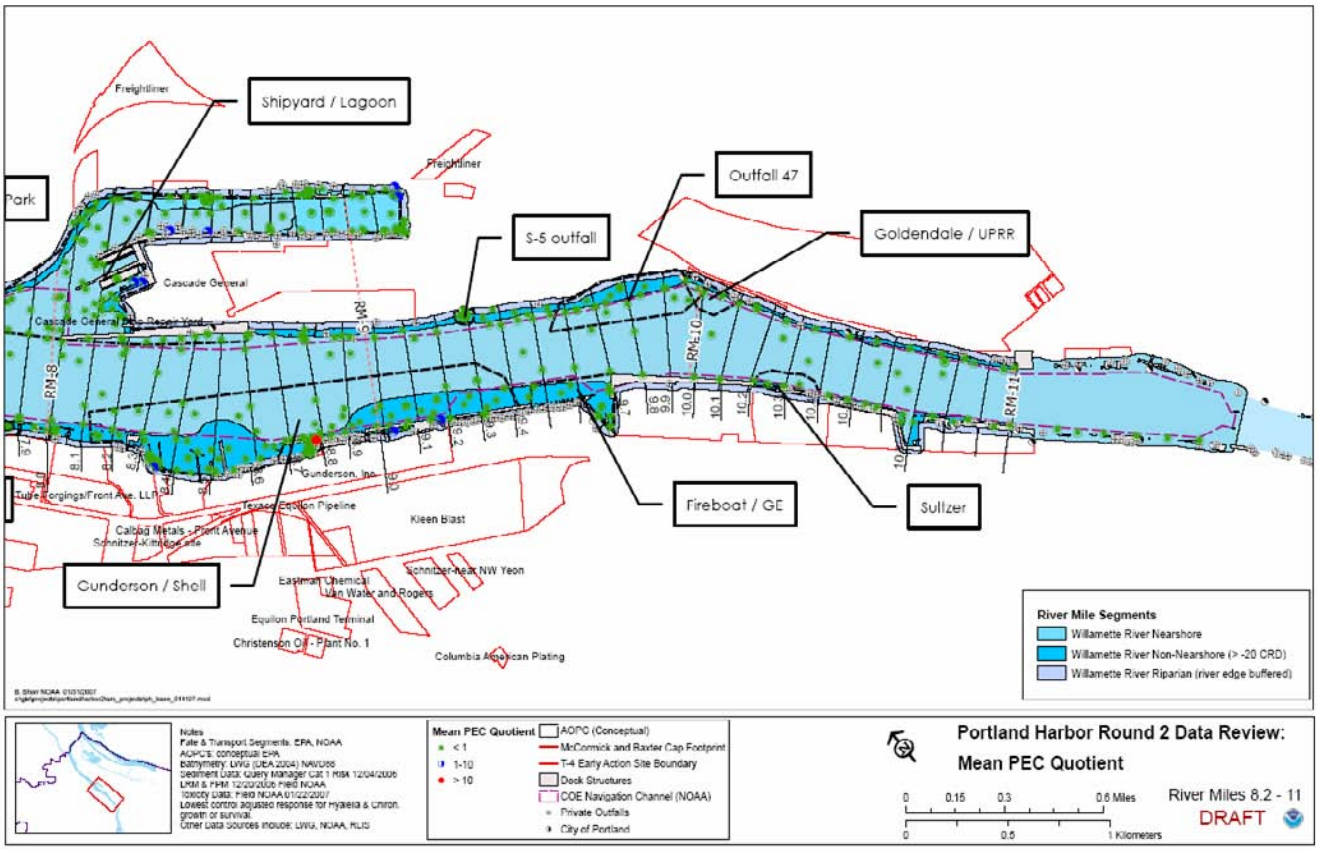
Harborwide RI/FS Round 2 Data Review excerpts:

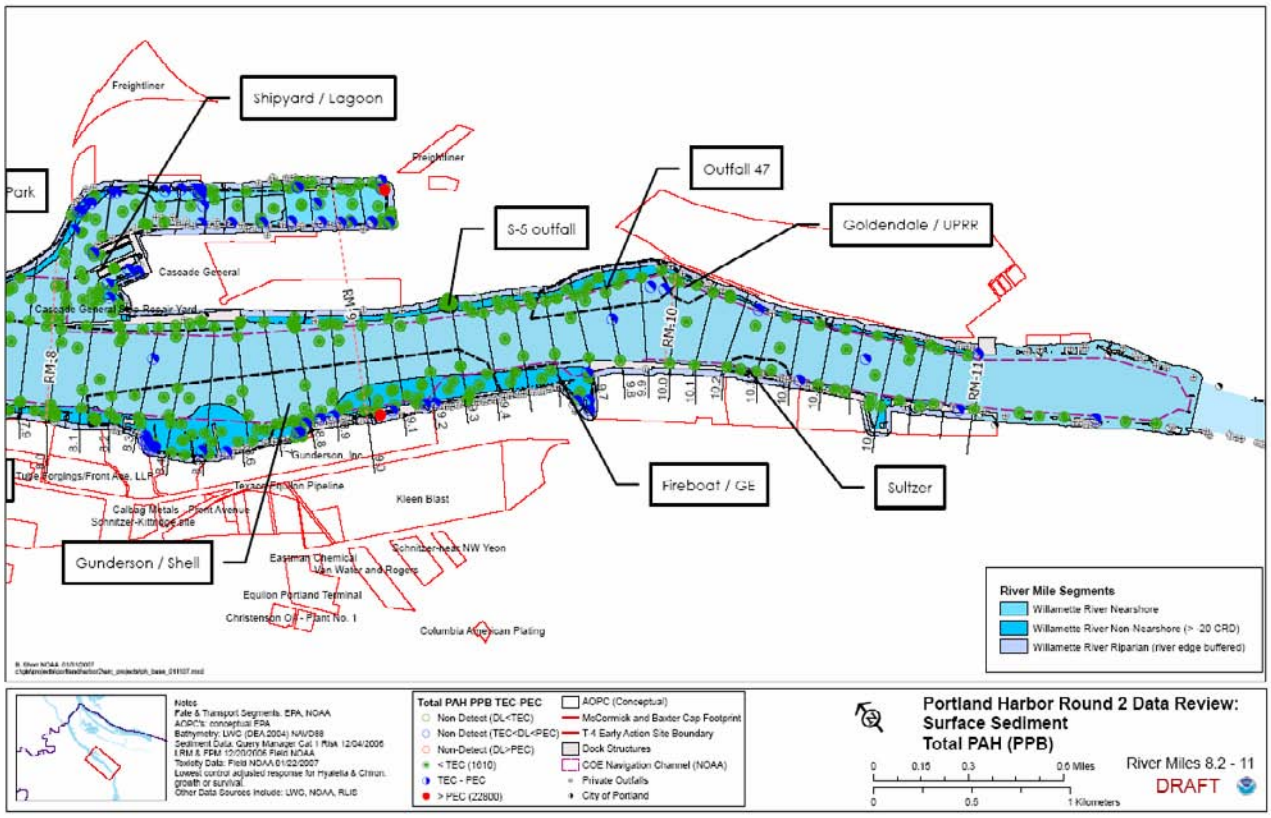



OSM
Schnitzer Burgard
Time Premier
T4
(Terminal 4)
Marcom
Willan
St. John
Boydston Metals (Northeast)
Oregon Steel Mills, Inc. - Rivergate
Consolidated Metco - Rivergate Facility
Union Chemical Div. Of Union Oil Co
Romar Transportation System
Portland Container Repair
Boydston Metal Works
Western Machine Works
North Remnant
Northwest Pipe and Casing
Port of Portland-Terminal 4 Slip 1
Union Pacific Railroad/Former St. Johns tank farm
Calbag Metals
Schnitzer Steel
Port of Portland-Terminal 4 Slip 3
T4 Auto Storage Area
Ashgrove Cement Co.
Northwest Service Center
TSG Trucking & OnLine Roofing
Premier Edible Oil
Alder Creek Lumber Co., Inc.
Morse Brothers
Linnton Oil Fire Training Grounds
ACF Industries
Dabcock Land Co.
ARCO Bulk Terminal
Mobil Oil Terminal
Multnomah Channel
RM-2
RM-3
RM-4
RM-5
River Mile Segments
Willamette River Nearshore
Willamette River Non-Nearshore (> -20 CRD)
Willamette River Riparian (river edge buffered)
Notes
Fate & Transport Segments: EPA, NOAA
AOPC's: conceptual EPA
Bathymetry: LWG (DEA 2004) NAVD88
Sediment Data: Query Manager Cat 1 Risk 12/04/2006
LRM & FPM 12/20/2006 Field NOAA
Toxicity Data: Field NOAA 01/22/2007
Lowest control adjusted response for Hyalella & Chiron, growth or survival.
Other Data Sources Include: LWG, NOAA, RLIS
Total PAH PPB TEC PEC
Non-Detect (DL<TEC)
Non-Detect (TEC<DL<PEC)
Non-Detect (DL>PEC)
< TEC (1610)
TEC - PEC
> PEC (22800)
AOPC (Conceptual)
McCormick and Baxter Cap Footprint
T-4 Early Action Site Boundary
Dock Structures
COE Navigation Channel (NOAA)
Private Outfalls
City of Portland
Portland Harbor Round 2 Data Review:
Surface Sediment
Total PAH (PPB)
0 0.15 0.3 0.6 Miles
0 0.5 1 Kilometers
River Miles 1.8-5.3
DRAFT


Shipyard / Lagoon
Outfall 48
Willamette Cove
McCormick & Baxter
Triangle Park
Crawford/ BES
S-5
Siltronic
St. Johns West
Northwest Natural
RPAC / Arkema
Willbridge
Gunderson / Shell
US Moorings
River Mile Segments
Willamette River Nearshore
Willamette River Non-Nearshore (> -20 CRD)
Willamette River Riparian (river edge buffered)
Mean PEC Quotient
< 1
1-10
> 10
AOPC (Conceptual)
McCormick and Baxter Cap Footprint
T-4 Early Action Site Boundary
Dock Structures
COE Navigation Channel (NOAA)
Private Outfalls
City of Portland
Portland Harbor Round 2 Data Review:
Mean PEC Quotient
River Miles 5.3 - 8.2
DRAFT


Shipyard / Lagoon
Outfall 48
Willamette Cove
McCormick & Baxter
Triangle Park
Crawford/ BES
S-5
Siltronic
St. Johns West
Northwest Natural
RPAC / Arkema
Willbridge
Gunderson / Shell
US Moorings
River Mile Segments
Willamette River Nearshore
Willamette River Non-Nearshore (> -20 CRD)
Willamette River Riparian (river edge buffered)
Total PAH PPR TEC-PEC
Non-Detect (DL<TEC)
Non-Detect (TEC<DL<PEC)
Non-Detect (DL>PEC)
< TEC (1610)
TEC - PEC
> PEC (22800)
AOPC (Conceptual)
McCormick and Baxter Cap Footprint
T-4 Early Action Site Boundary
Dock Structures
COE Navigation Channel (NOAA)
Private Outfalls
City of Portland
Portland Harbor Round 2 Data Review:
Surface Sediment
Total PAH (PPB)
River Miles 5.3 - 8.2
DRAFT


Shipyard / Lagoon
Outfall 47
S-5 outfall
Goldendale / UPRR
Fireboat / GE
Sulzer
Gundorson / Shell
Freightliner
Cascade General
Kleen Blast
Eastman Chemical
Van Waters and Rogers
Equilon Portland Terminal
Christenson Oil - Plant No. 1
Columbia American Plating
River Mile Segments
Willamette River Nearshore
Willamette River Non-Nearshore (> -20 CRD)
Willamette River Riparian (river edge buffered)
Mean PEC Quotient
< 1
1-10
> 10
AOPC (Conceptual)
McCormick and Baxter Cap Footprint
T-4 Early Action Site Boundary
Dock Structures
COE Navigation Channel (NOAA)
Private Outfalls
City of Portland
Portland Harbor Round 2 Data Review:
Mean PEC Quotient
River Miles 8.2 - 11
DRAFT


Shipyard / Lagoon
Outfall 47
S-5 outfall
Goldendale / UPRR
Fireboat / GE
Sulzer
Gundorson / Shell
Freightliner
Cascade General
Kleen Blast
Eastman Chemical
Van Waters and Rogers
Equilon Portland Terminal
Christenson Oil - Plant No. 1
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Willamette River Non-Nearshore (> -20 CRD)
Willamette River Riparian (river edge buffered)
Total PAH PPB TEC PEC
Non Detect (DL<TEC)
Non Detect (TEC<DL<PEC)
Non-Detect (DL>PEC)
< TEC (1610)
TEC - PEC
> PEC (22800)
AOPC (Conceptual)
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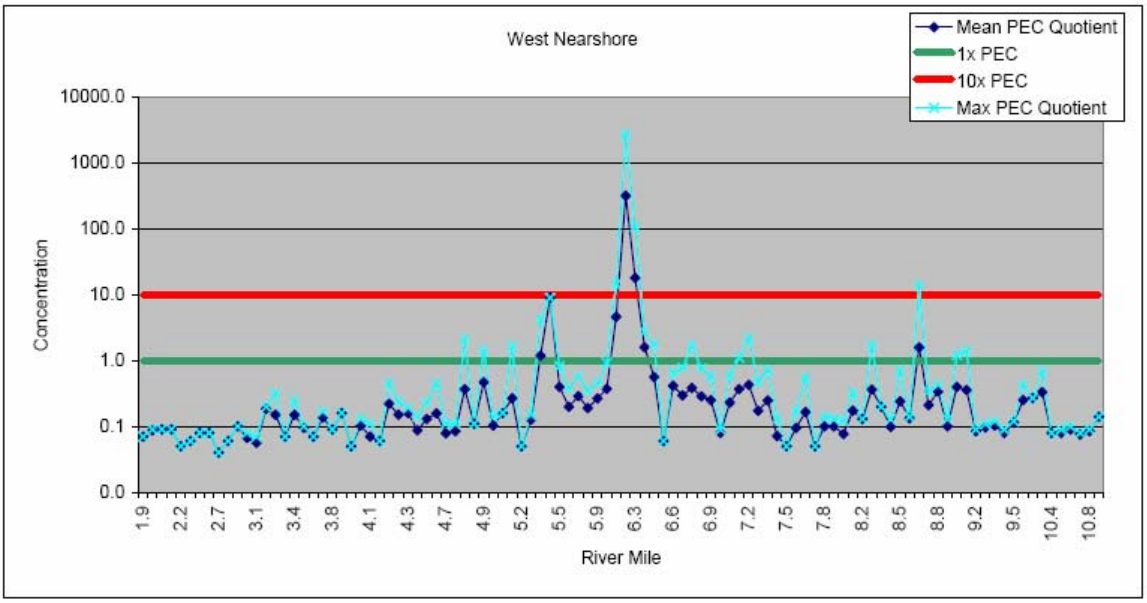
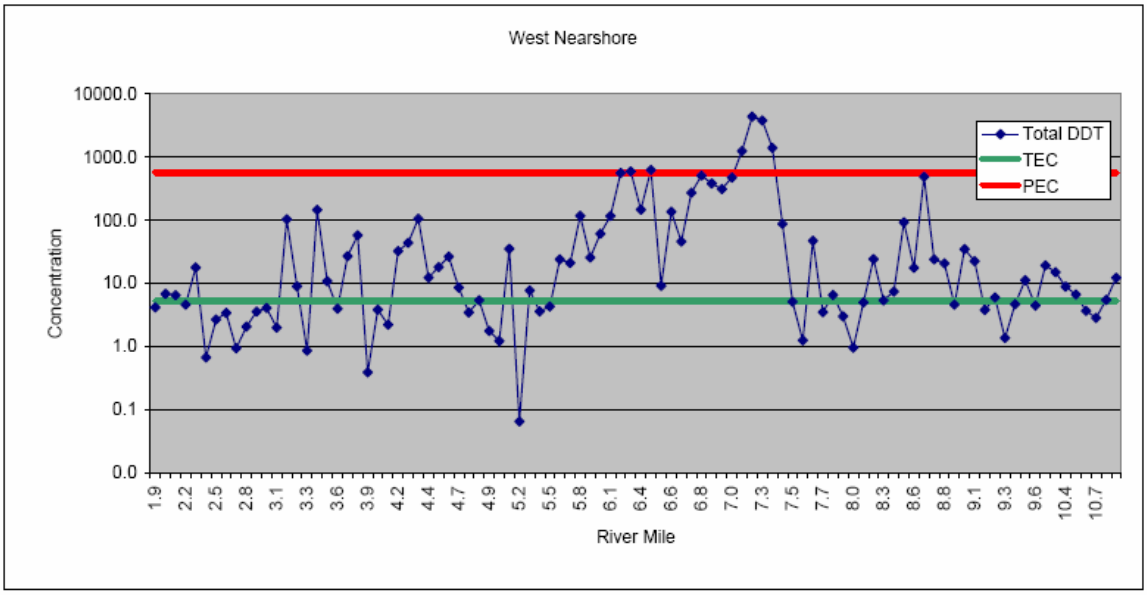
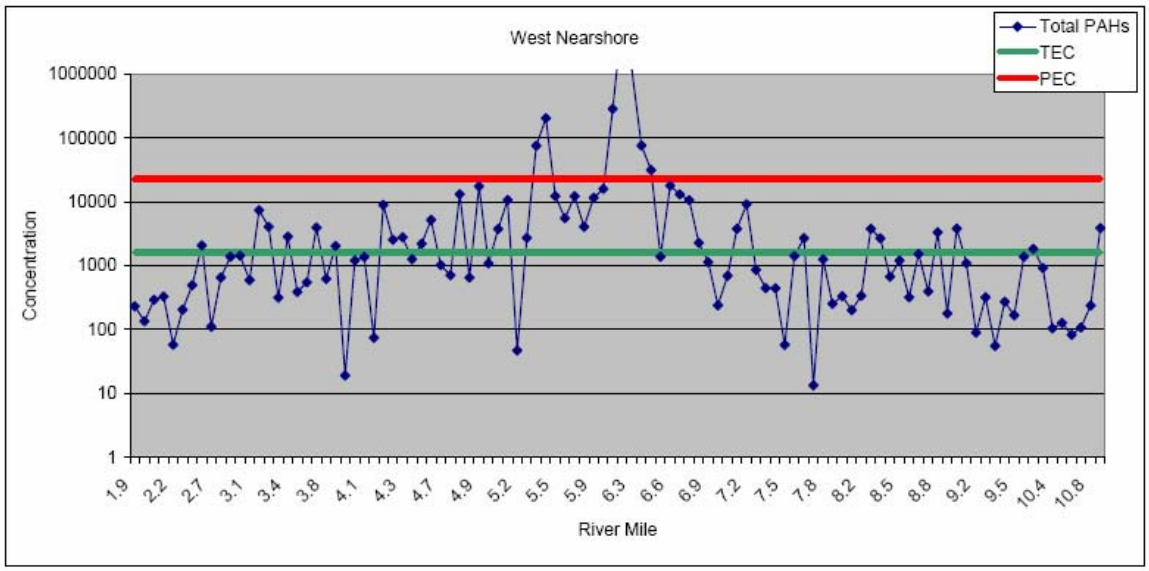
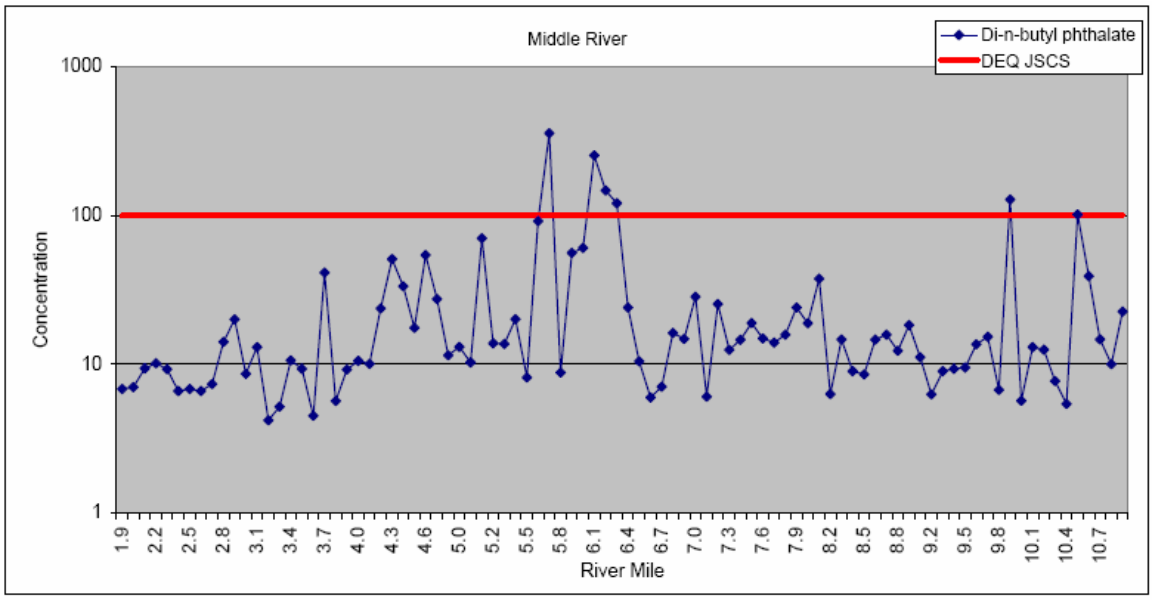
T-4 Early Action Site Boundary
Dock Structures
COE Navigation Channel (NOAA)
Private Outfalls
City of Portland
Portland Harbor Round 2 Data Review:
Surface Sediment
Total PAH (PPB)
River Miles 8.2 - 11
DRAFT

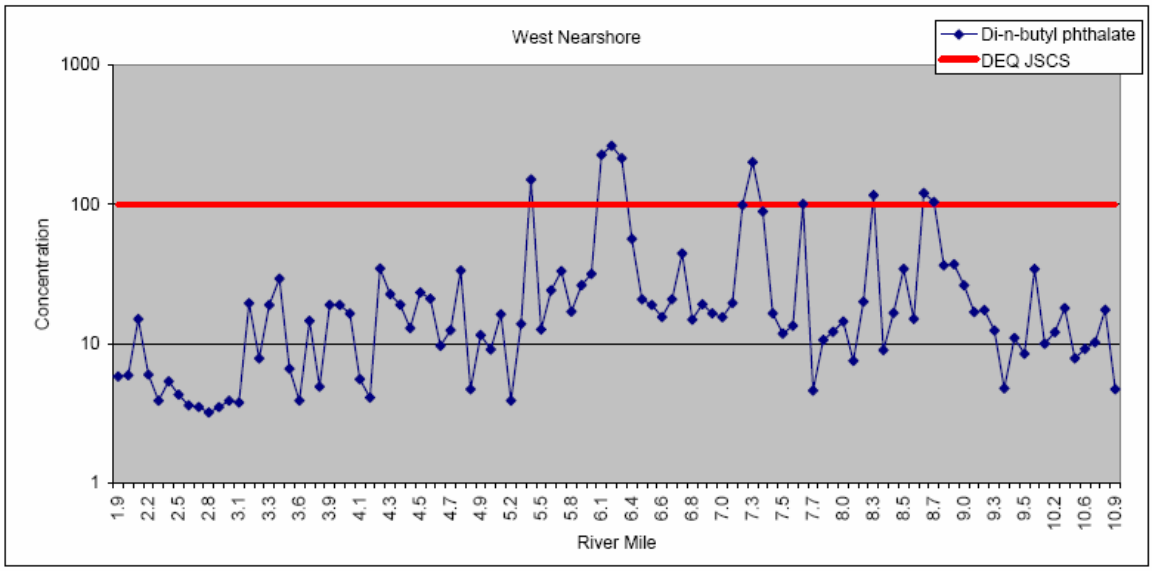

West Nearshore
Mean PEC Quotient
1x PEC
10x PEC
Max PEC Quotient
Concentration
10000.0
1000.0
100.0
10.0
1.0
0.1
0.0
1.9
2.2
2.7
3.1
3.4
3.8
4.1
4.3
4.7
4.9
5.2
5.5
5.9
6.3
6.6
6.9
7.2
7.5
7.8
8.2
8.5
8.8
9.2
9.5
10.4
10.8
River Mile


West Nearshore
Total DDT
TEC
PEC
Concentration
10000.0
1000.0
100.0
10.0
1.0
0.1
0.0
1.9
2.2
2.5
2.8
3.1
3.3
3.6
3.9
4.2
4.4
4.7
4.9
5.2
5.5
5.8
6.1
6.4
6.6
6.8
7.0
7.3
7.5
7.7
8.0
8.3
8.6
8.8
9.1
9.3
9.6
10.4
10.7
River Mile

Middle River
Total PAHs
TEC
PEC
Concentration
1000000
100000
10000
1000
100
10
1
1.9
2.2
2.5
2.8
3.1
3.4
3.7
4.0
4.3
4.6
5.0
5.2
5.5
5.8
6.1
6.4
6.7
7.0
7.3
7.6
7.9
8.2
8.5
8.8
9.2
9.5
9.8
10.1
10.4
10.7
River Mile


West Nearshore
Total PAHs
TEC
PEC
Concentration
1000000
100000
10000
1000
100
10
1
1.9
2.2
2.7
3.1
3.4
3.8
4.1
4.3
4.7
4.9
5.2
5.5
5.9
6.3
6.6
6.9
7.2
7.5
7.8
8.2
8.5
8.8
9.2
9.5
10.4
10.8
River Mile


Middle River
Di-n-butyl phthalate
DEQ JSCS
Concentration
1000
100
10
1
1.9
2.2
2.5
2.8
3.1
3.4
3.7
4.0
4.3
4.6
5.0
5.2
5.5
5.8
6.1
6.4
6.7
7.0
7.3
7.6
7.9
8.2
8.5
8.8
9.2
9.5
9.8
10.1
10.4
10.7
River Mile


West Nearshore
Di-n-butyl phthalate
DEQ JSCS
Concentration
1000
100
10
1
1.9
2.2
2.5
2.8
3.1
3.3
3.6
3.9
4.1
4.3
4.5
4.7
4.9
5.2
5.5
5.8
6.1
6.4
6.6
6.8
7.0
7.3
7.5
7.7
8.0
8.3
8.5
8.7
9.0
9.3
9.5
10.2
10.6
10.9
River Mile