PORTLAND HARBOR RI/FS

REMEDIAL INVESTIGATION REPORT

APPENDIX D1.2
CONTAMINANT AND PHYSICAL PARAMETERS IN BEDDED SEDIMENT—MAPS

DRAFT FINAL

June 12, 2015

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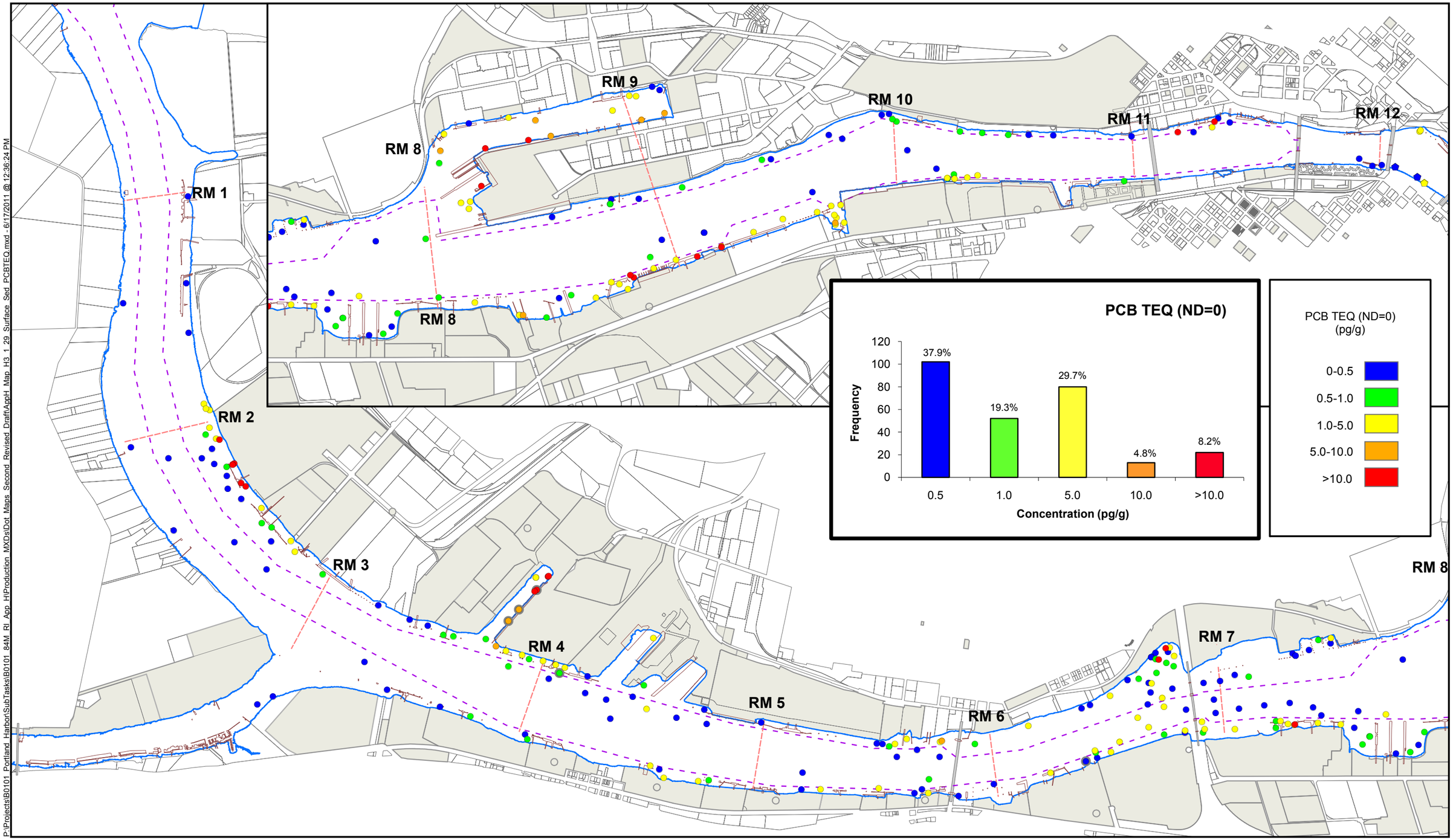

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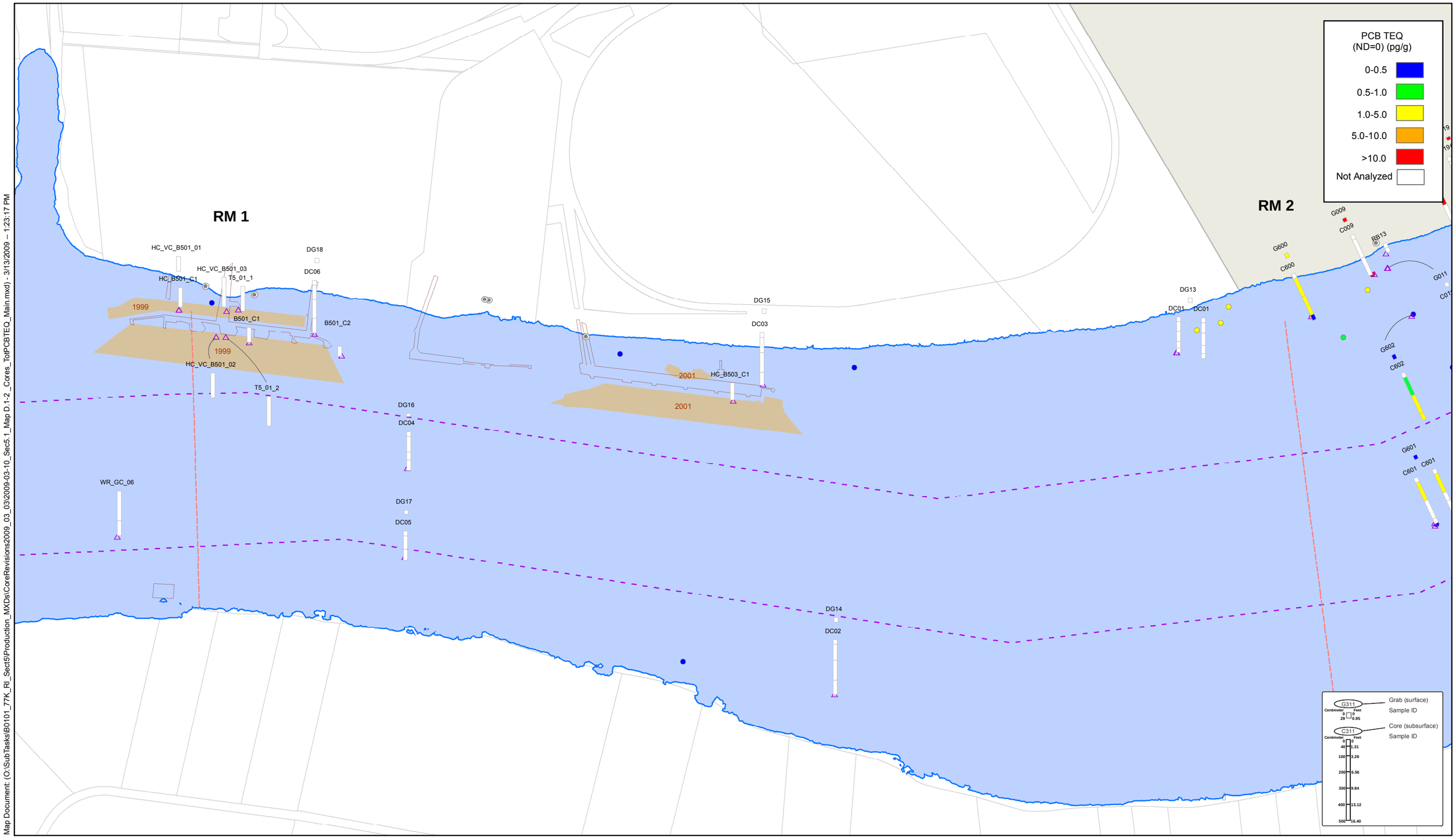
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-1
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

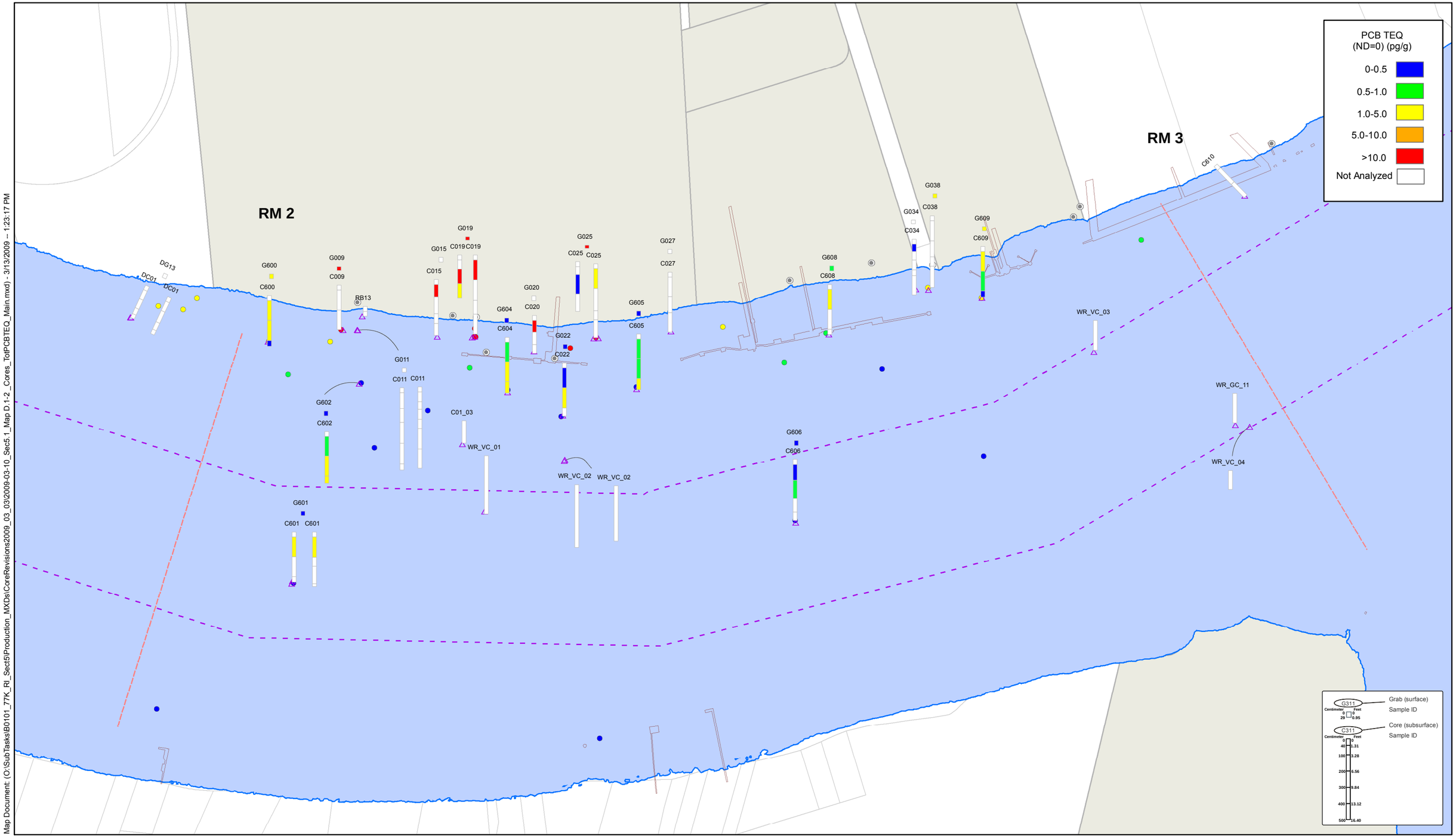
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 01 to 02



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Channel & River miles: US Army Corps of Engineers.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

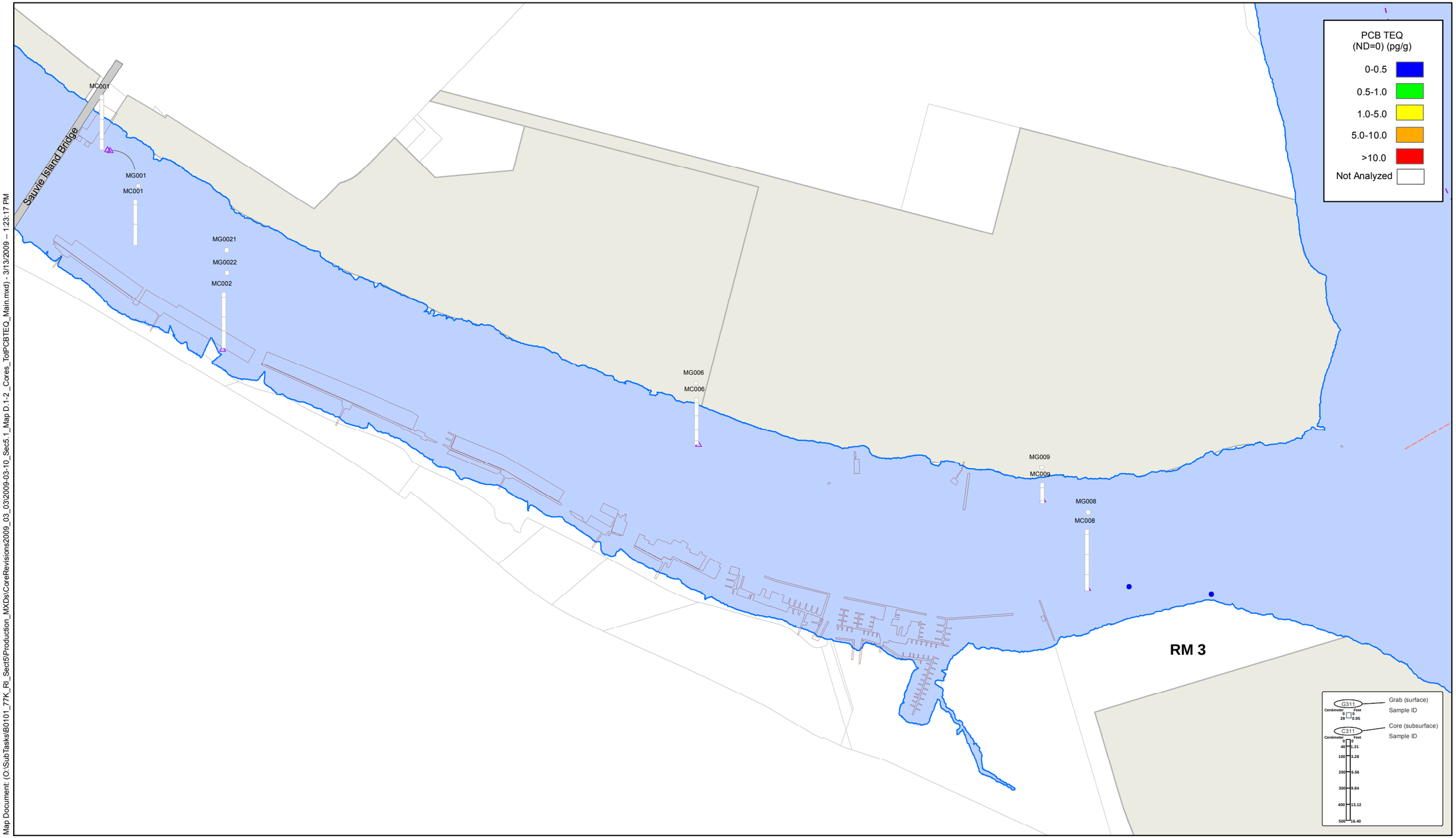
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 02 to 03



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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

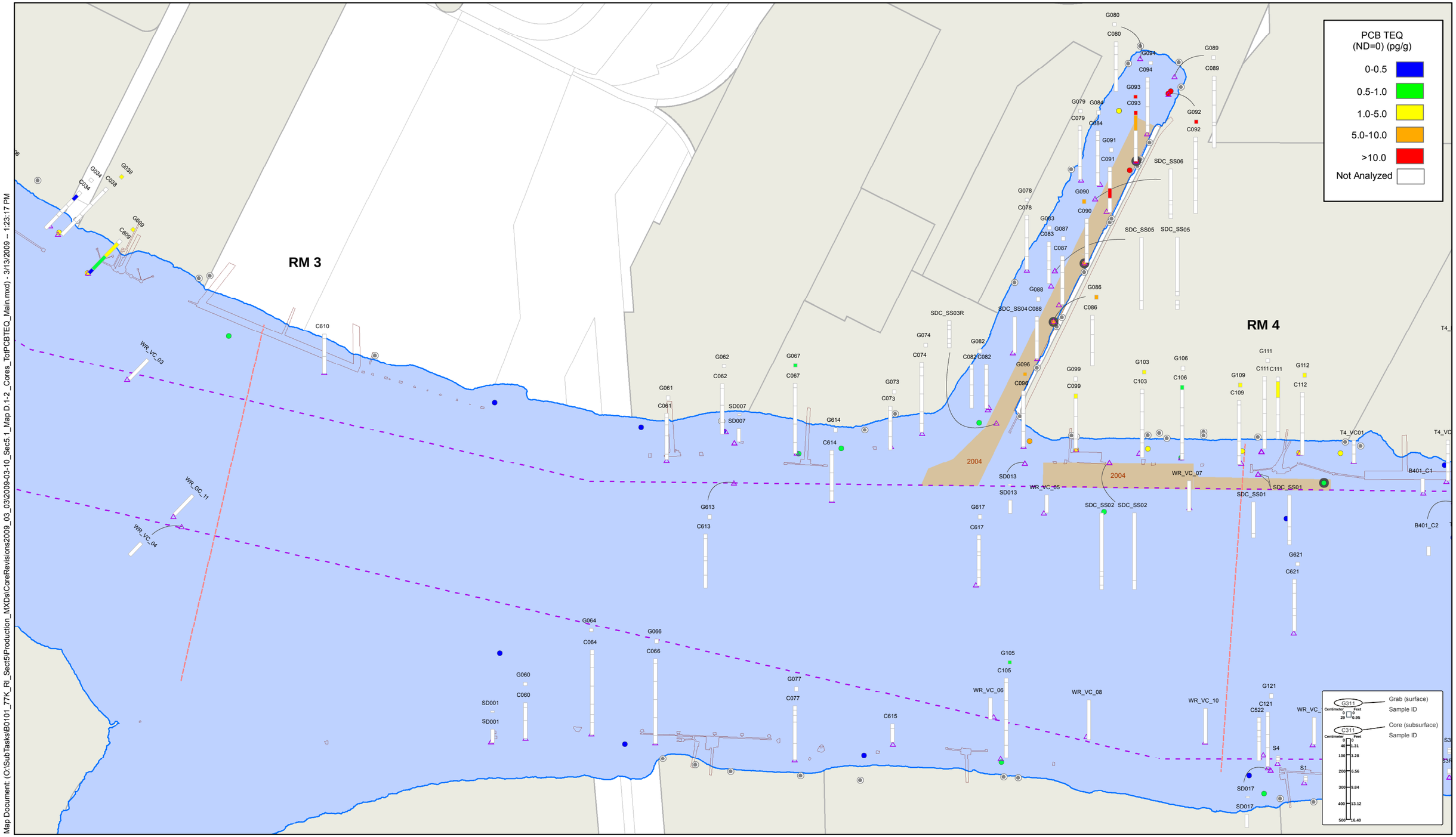
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 03 - Multnomah Channel



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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

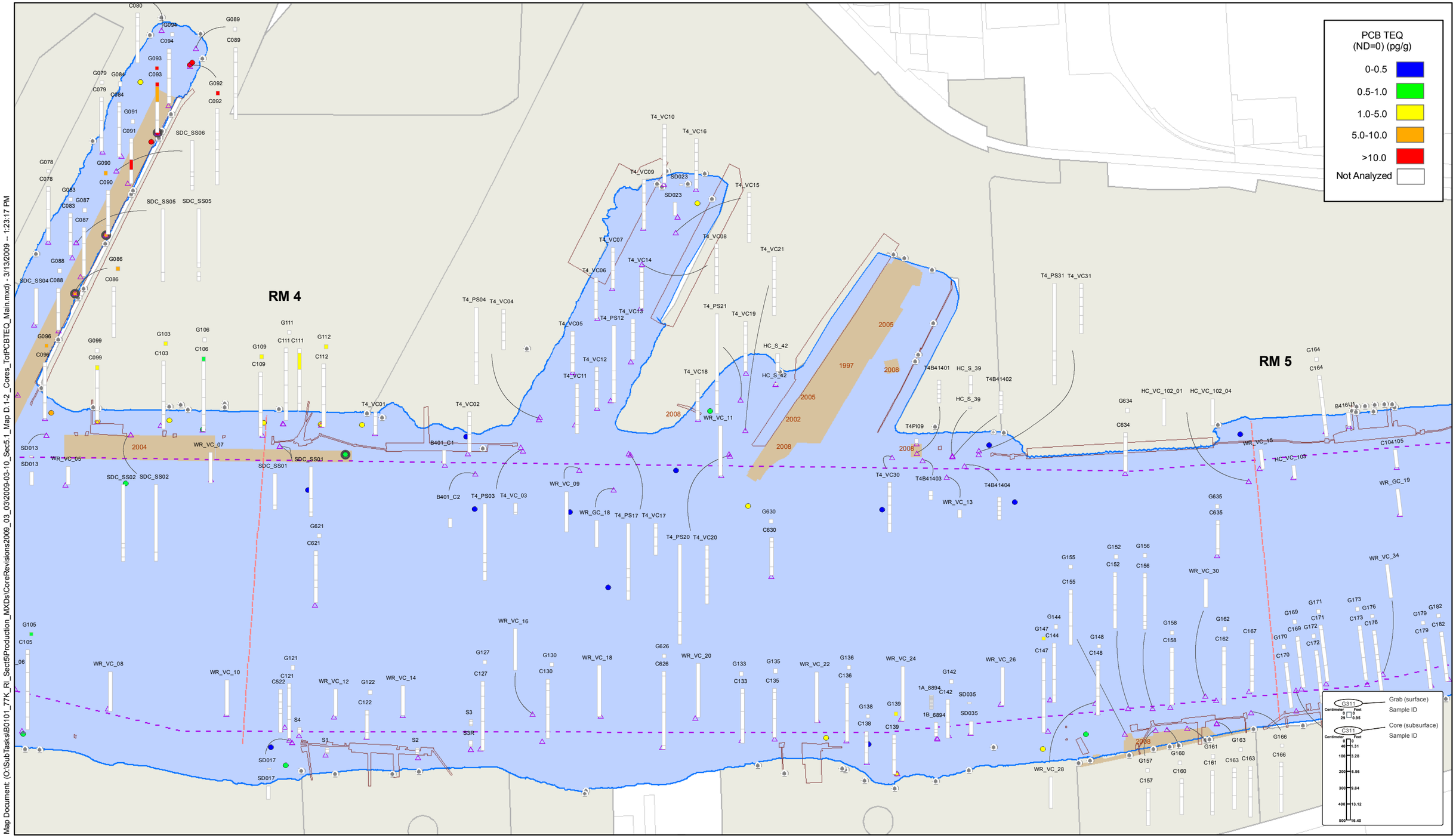
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 03 to 04



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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

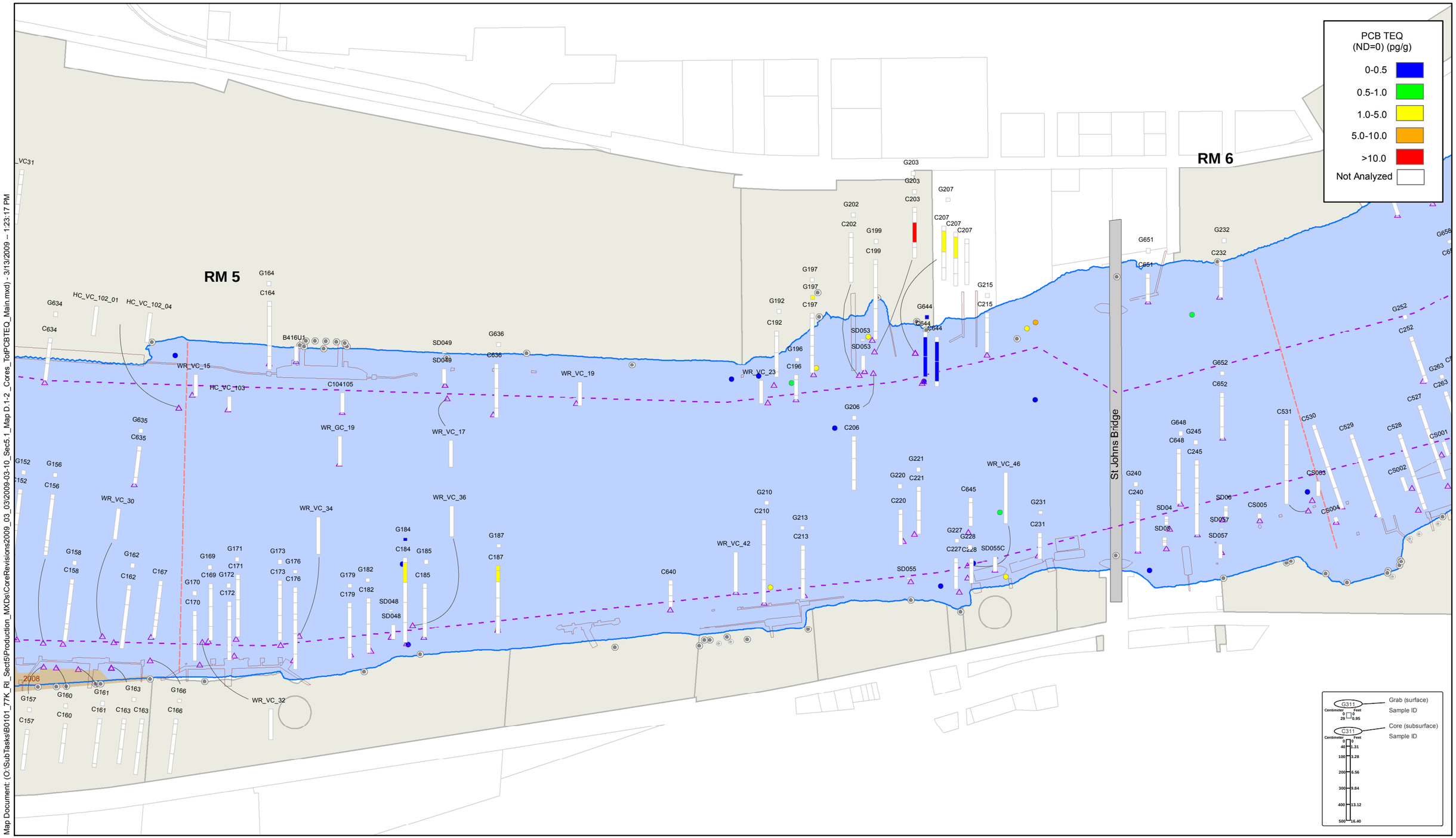
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 04 to 05 - Slips



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Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

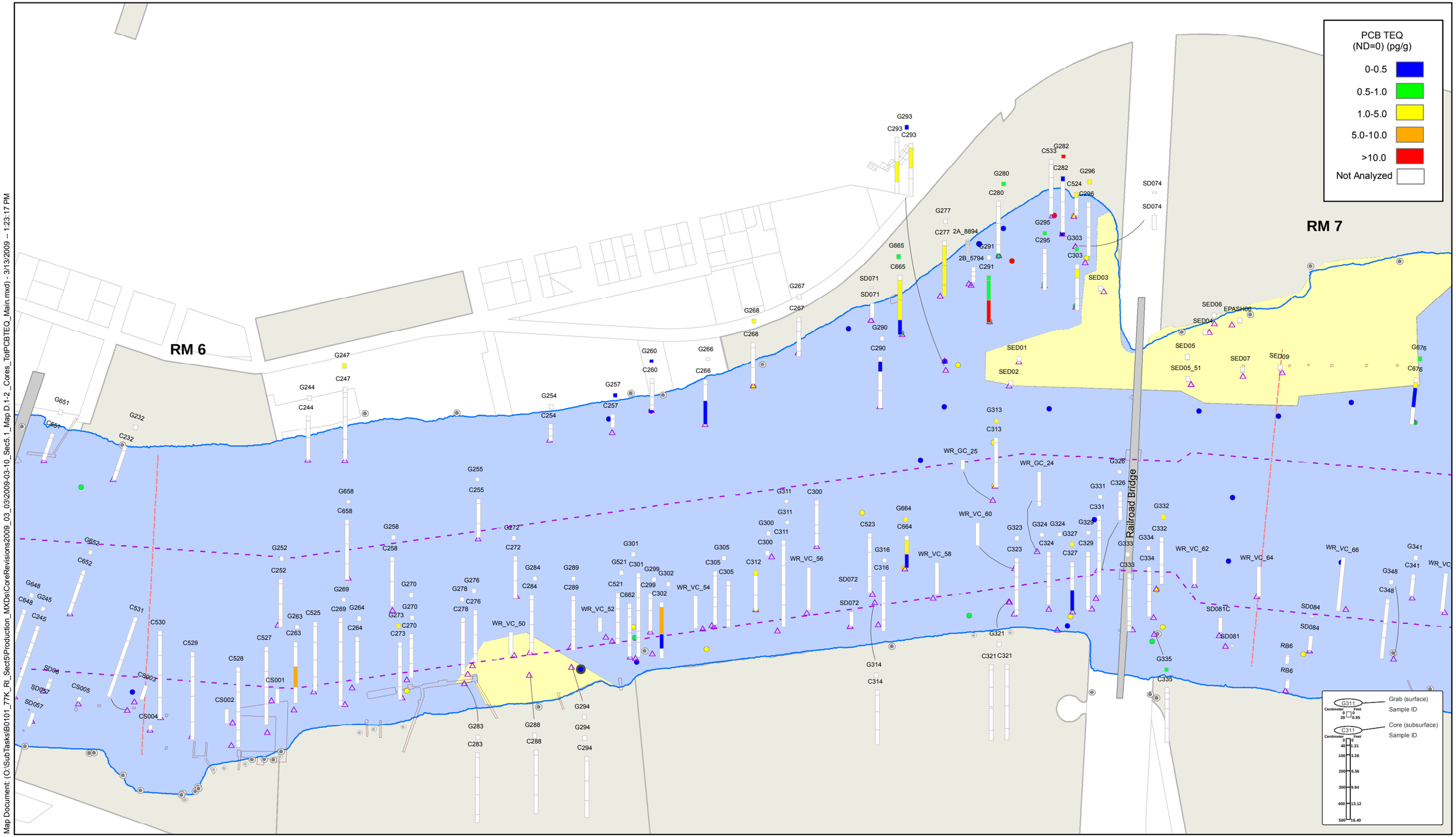
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 05 to 06



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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

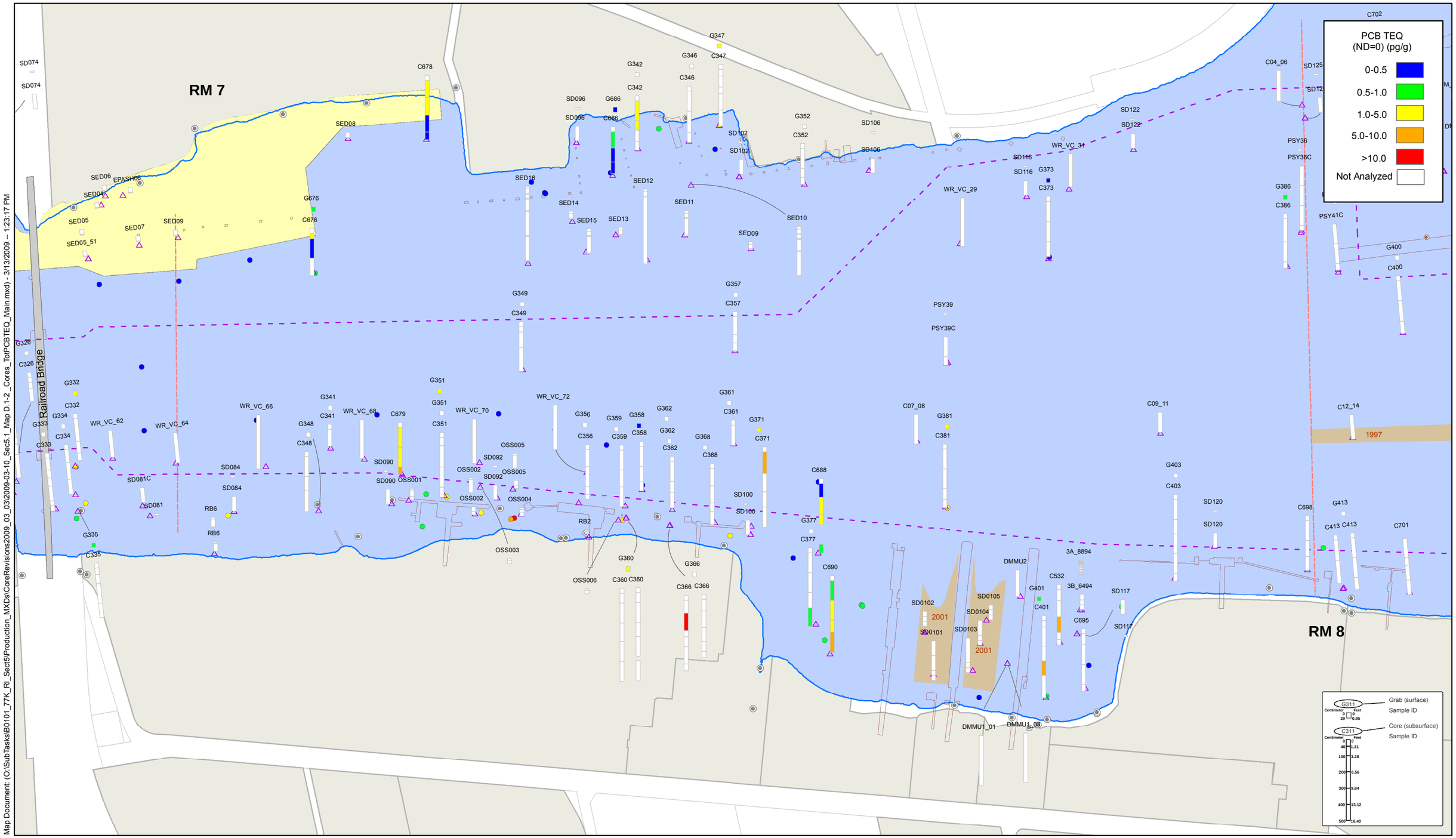
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 06 to 07



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Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

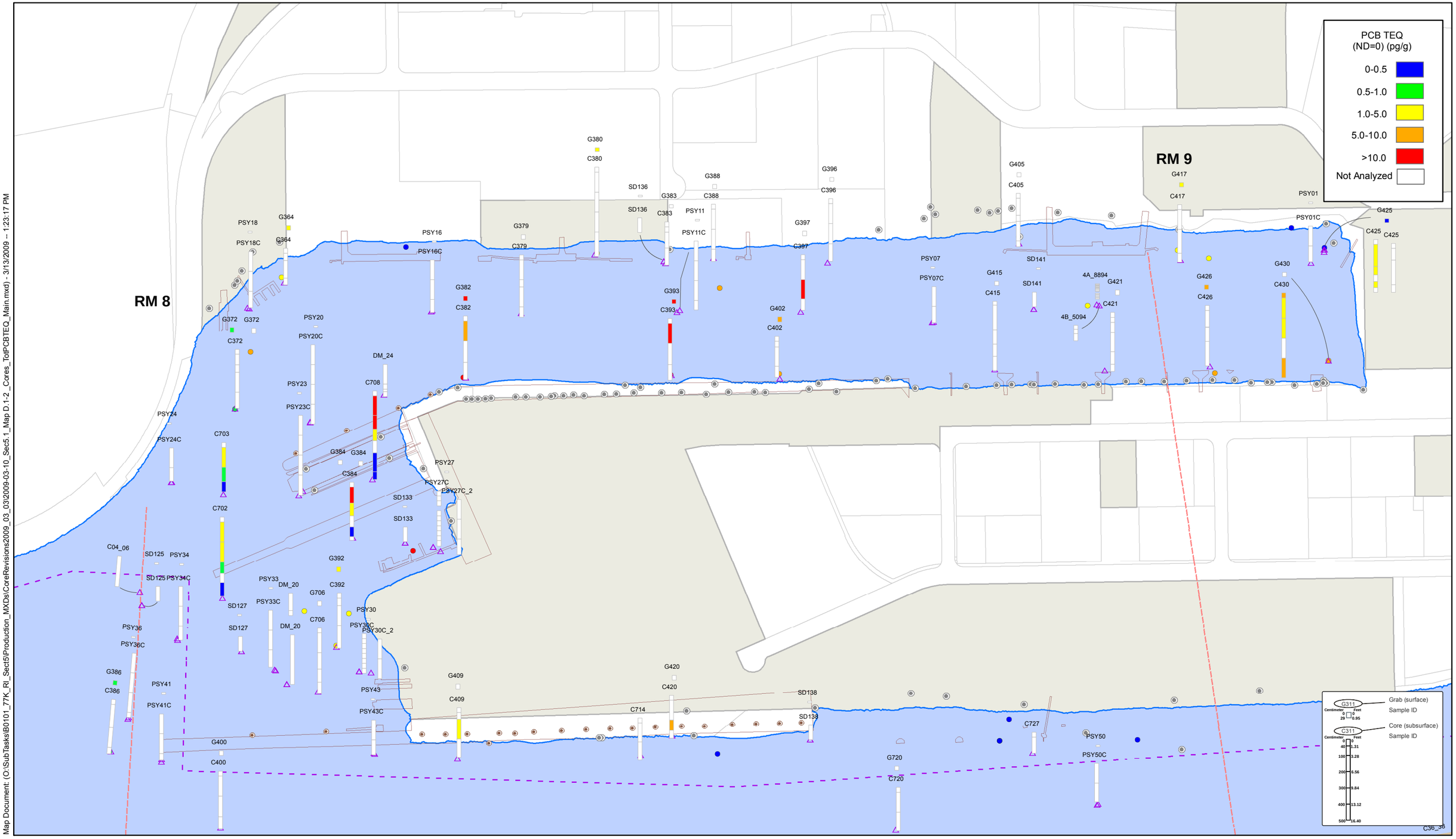
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

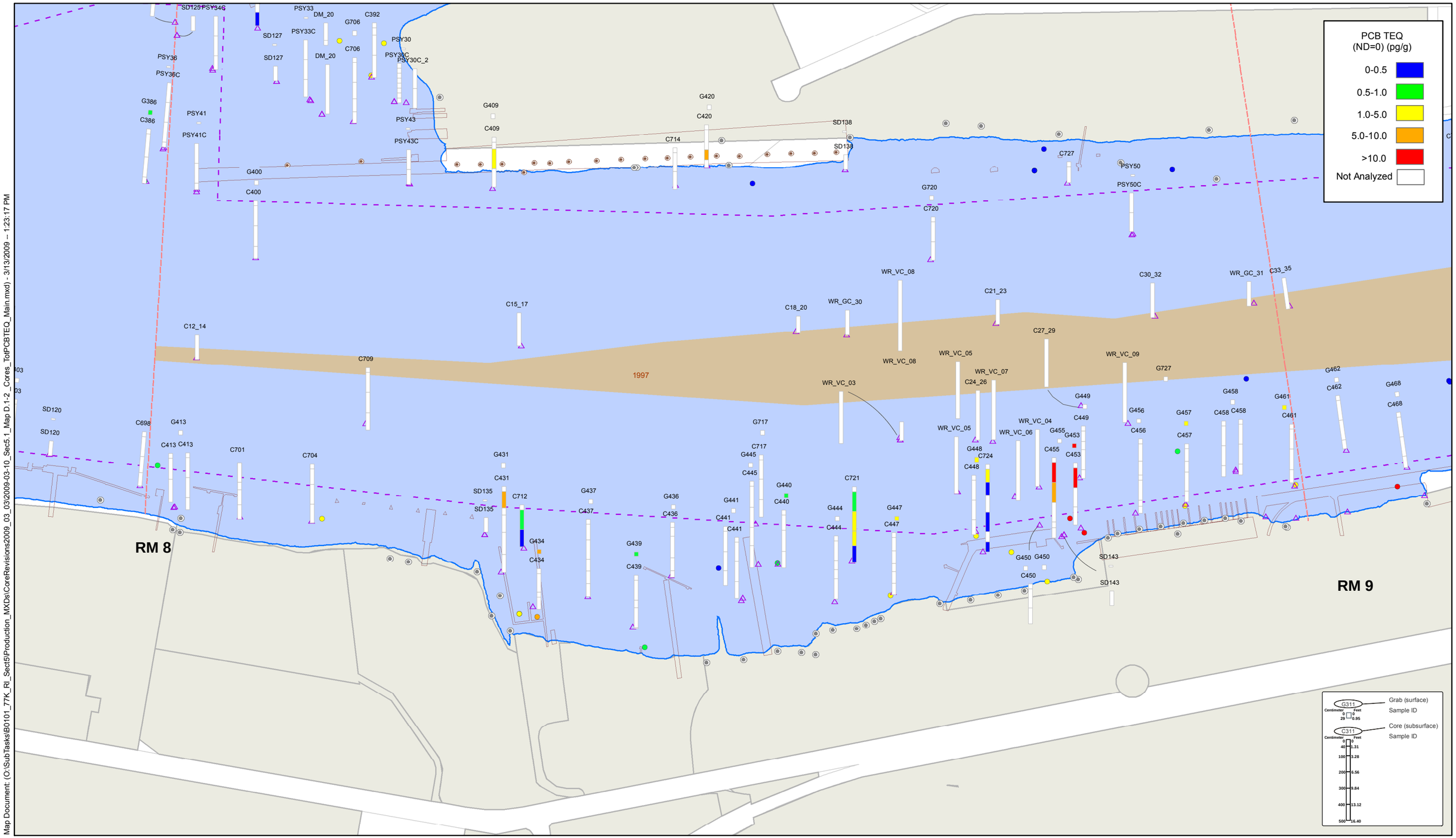
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 08 to 09 - Swan Is. East



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Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

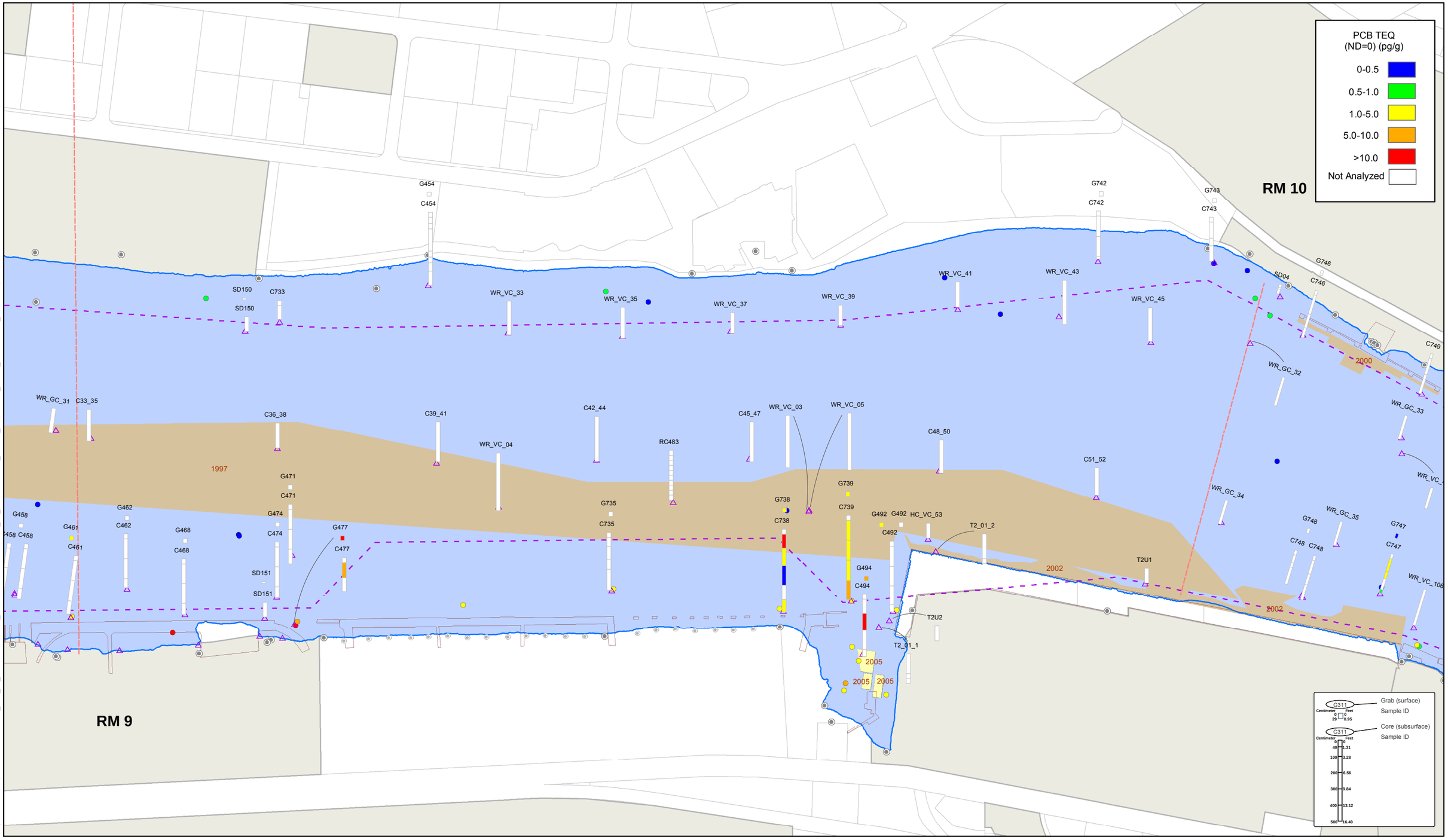
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 08 to 09 - Swan Is. West



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Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

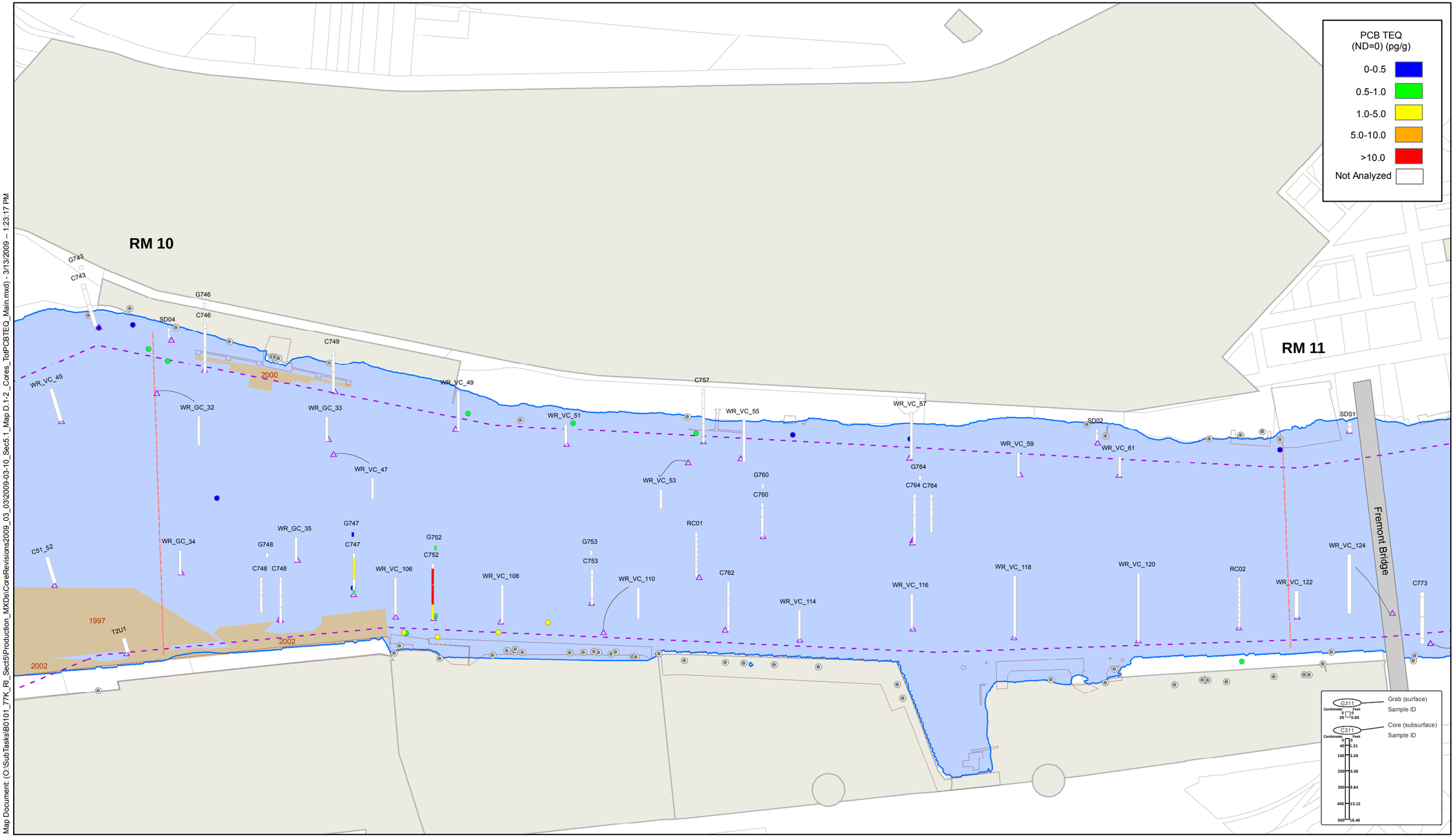
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2 k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 09 to 10



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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

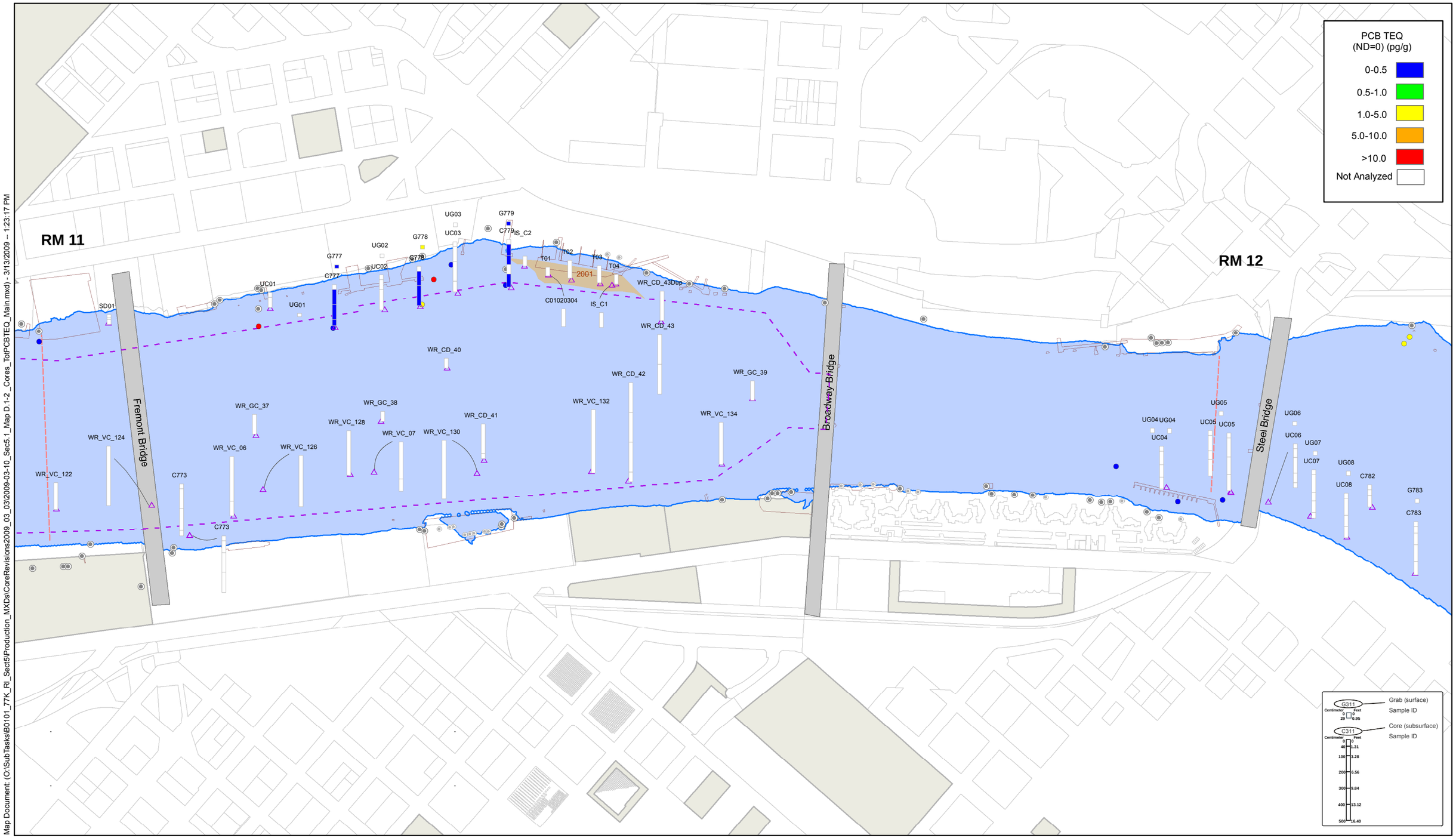
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

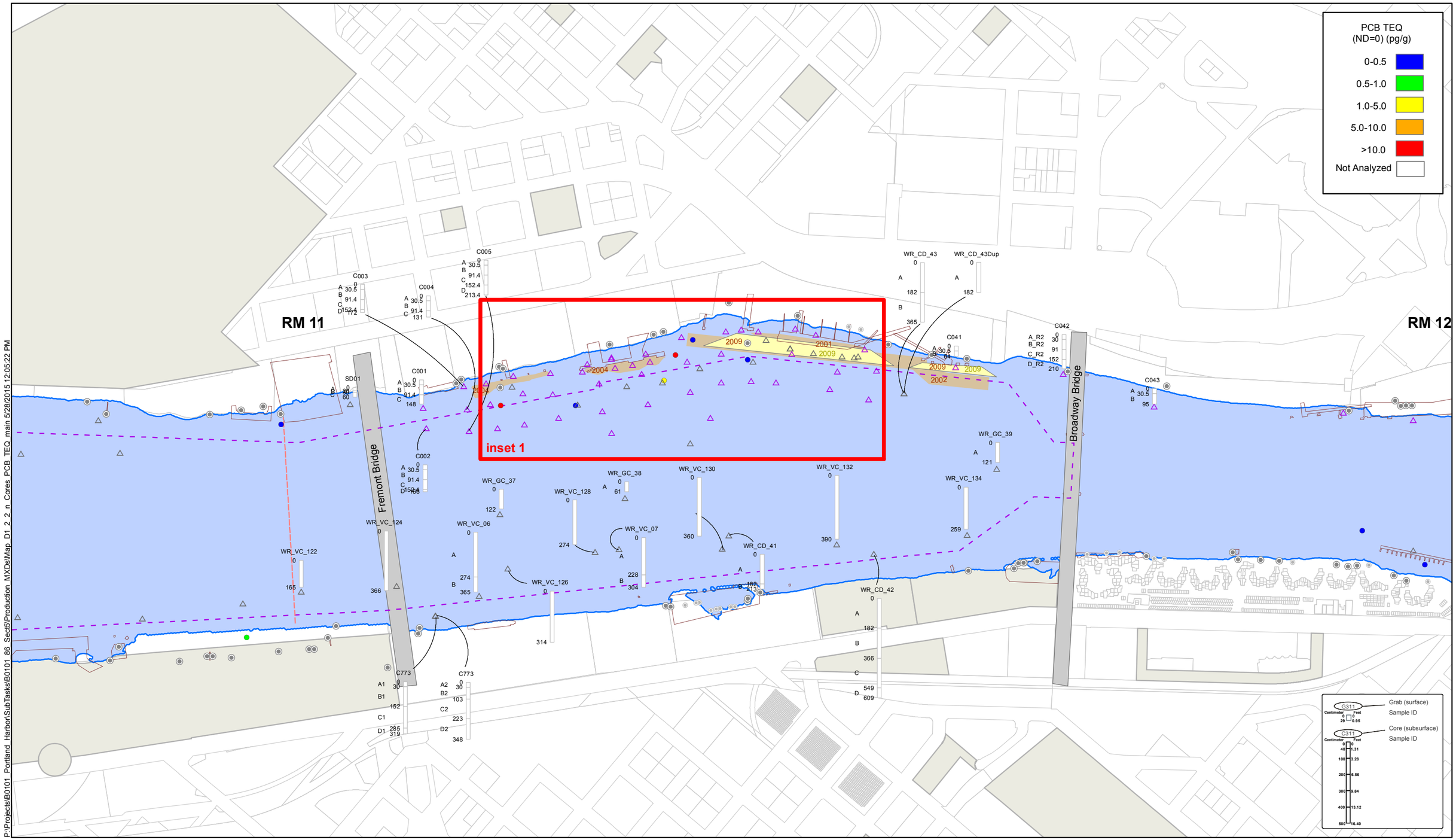
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

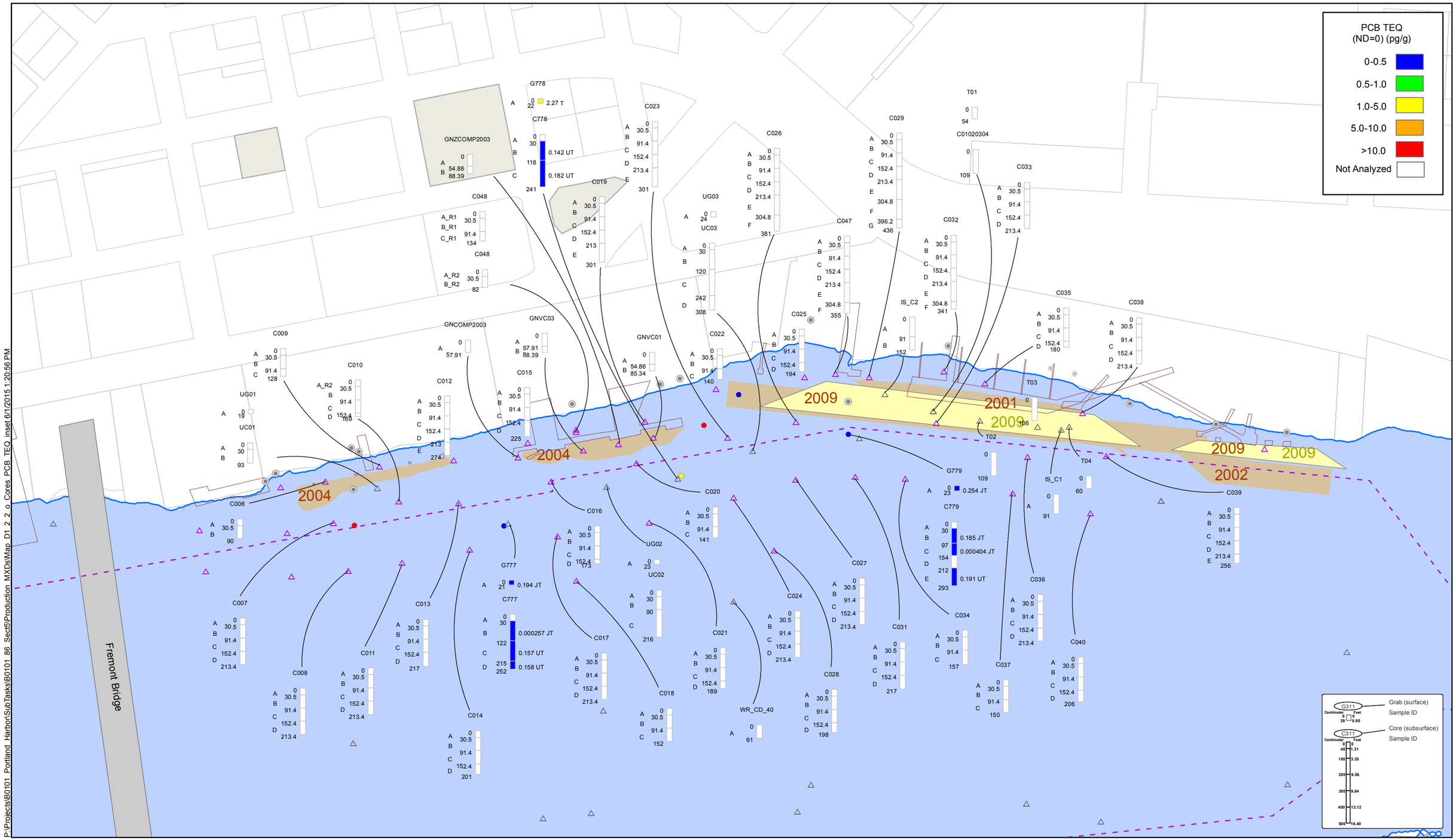
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_2_n_Cores_PCB_TEQ_main 5/28/2015 12:05:22 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-2o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)

River Mile 11.0 - 11.8 - Inset 1

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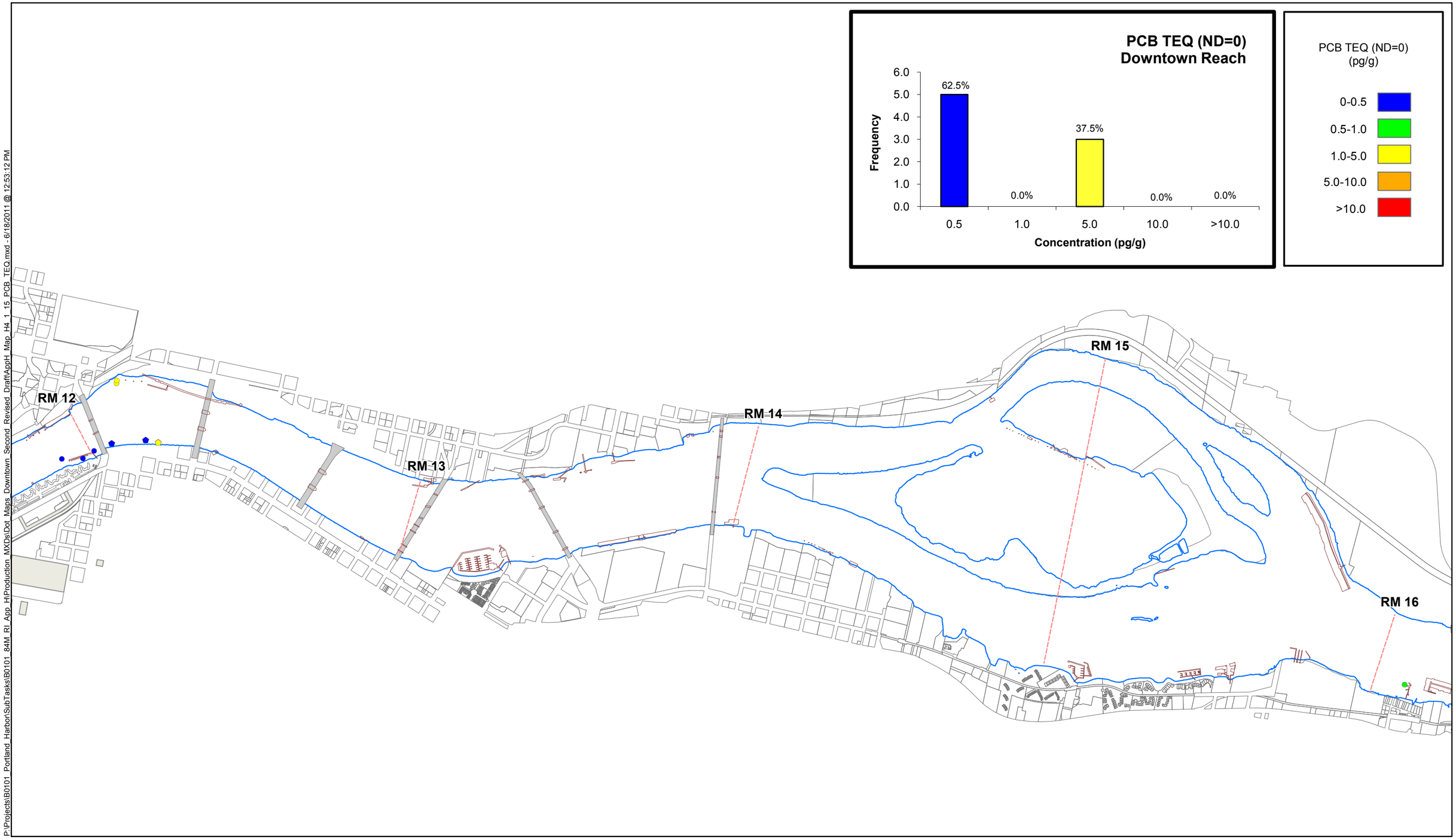

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N

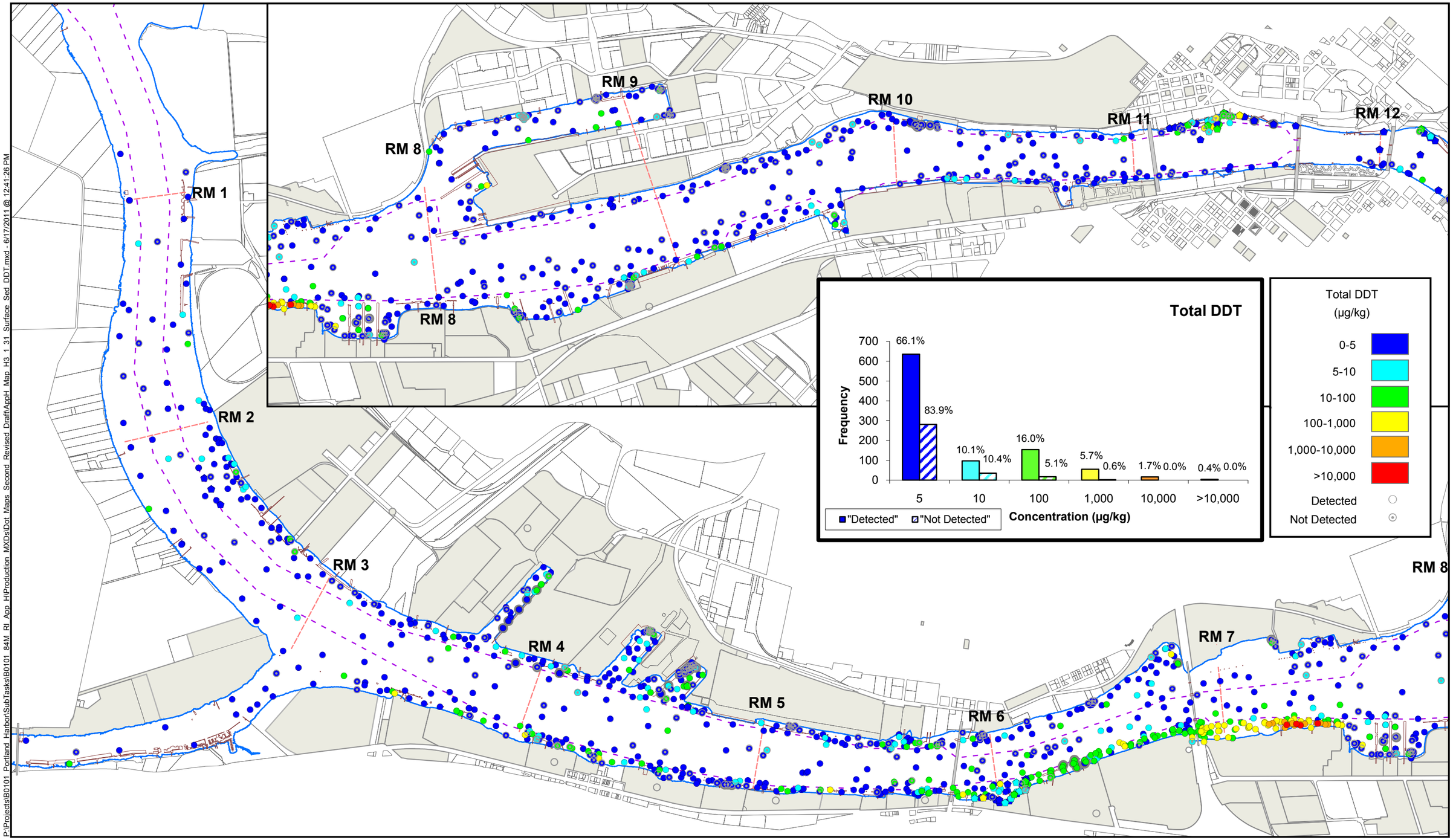
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-3
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
PCB TEQ (ND=0) (pg/g)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

N

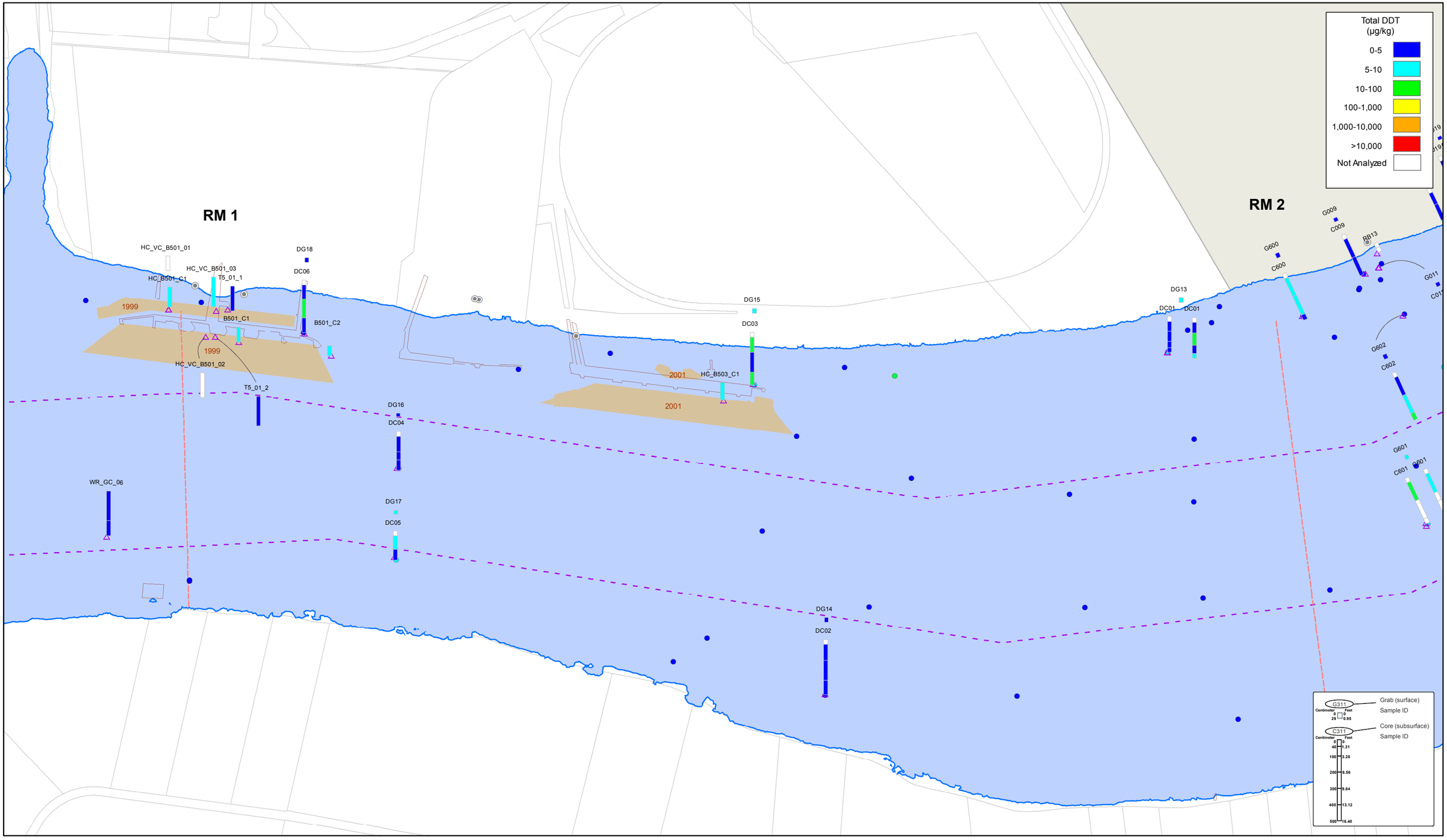
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-4
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total DDT (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

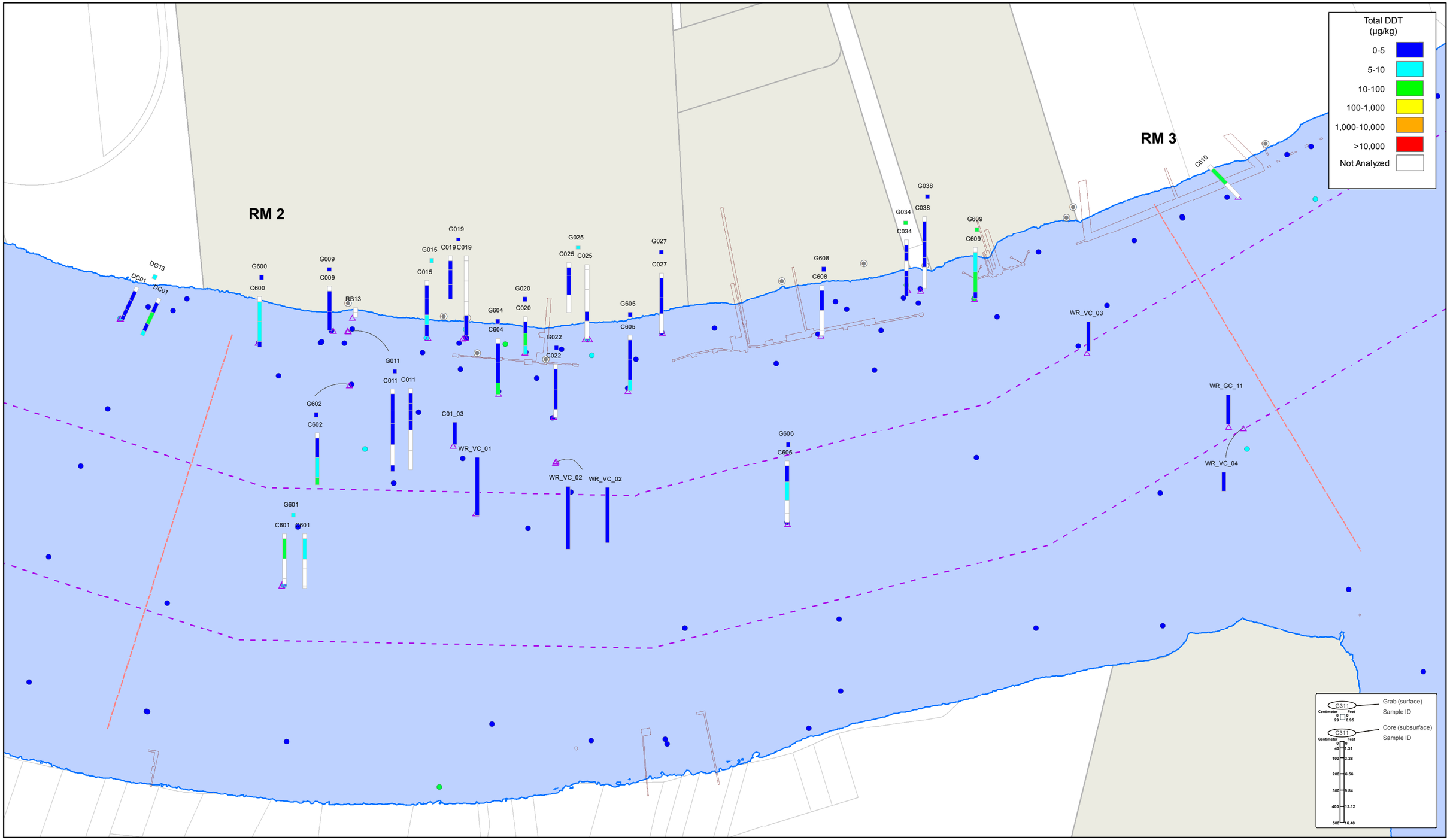
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

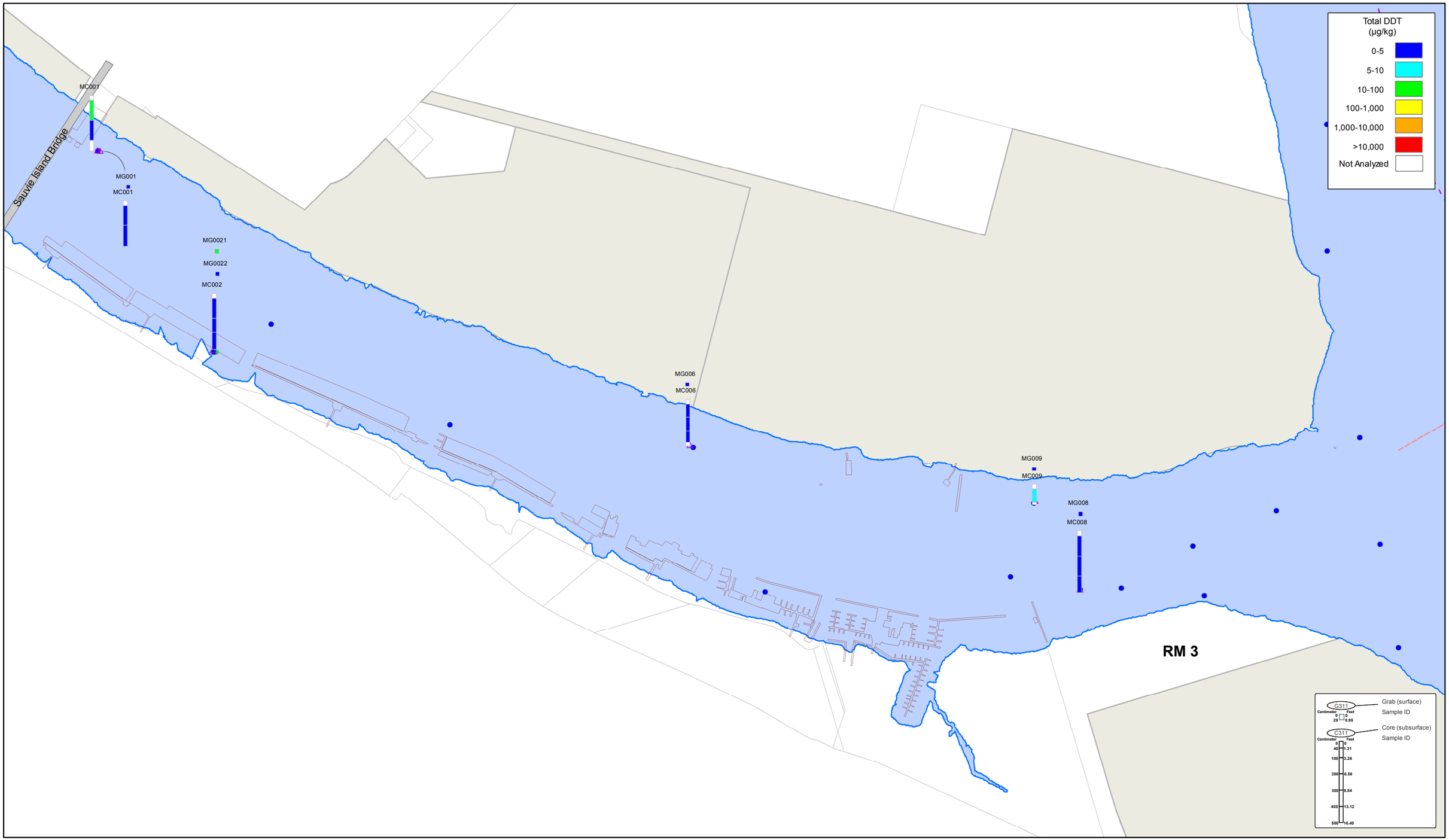
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

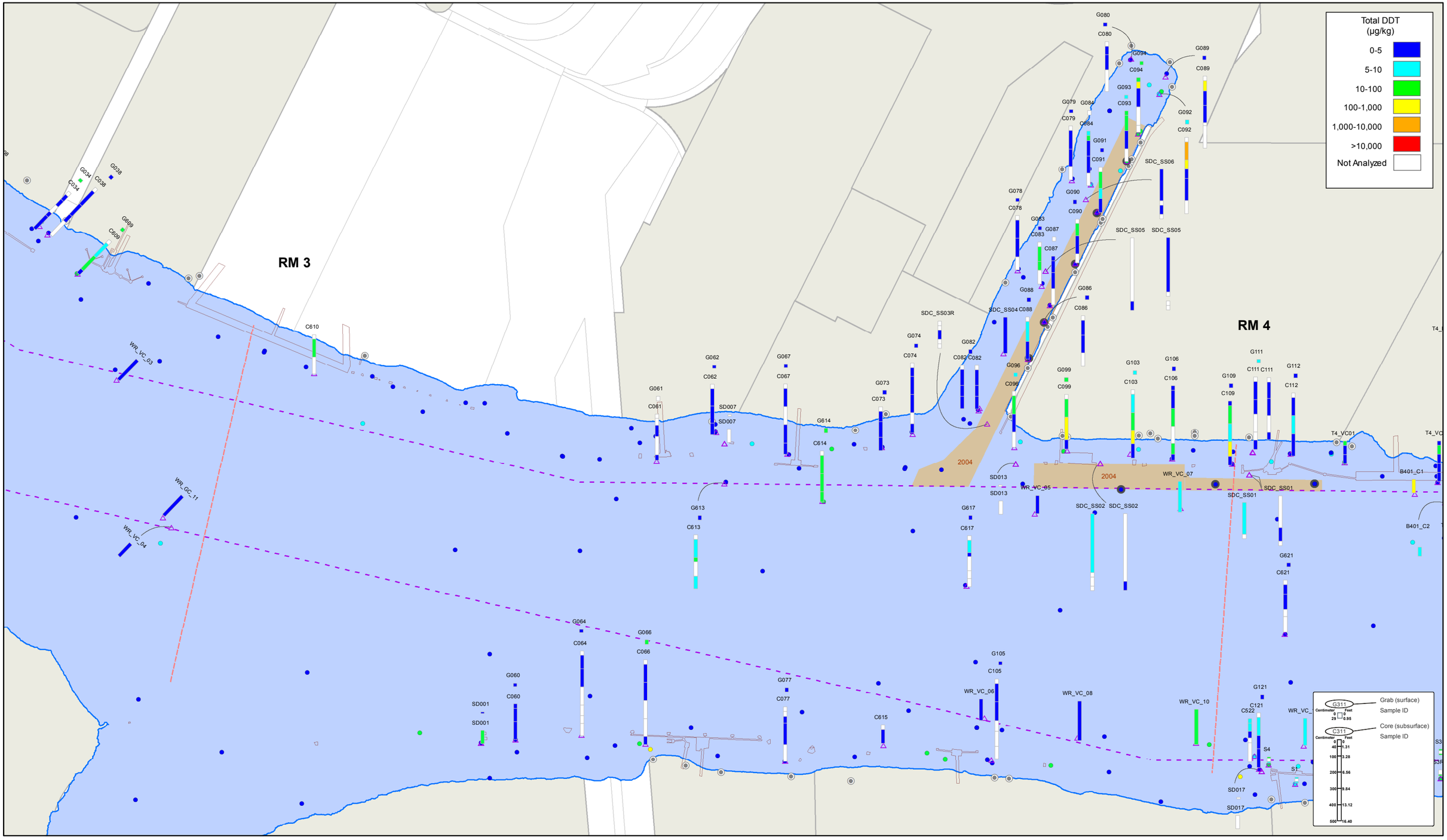
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 03 - Multnomah Channel

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

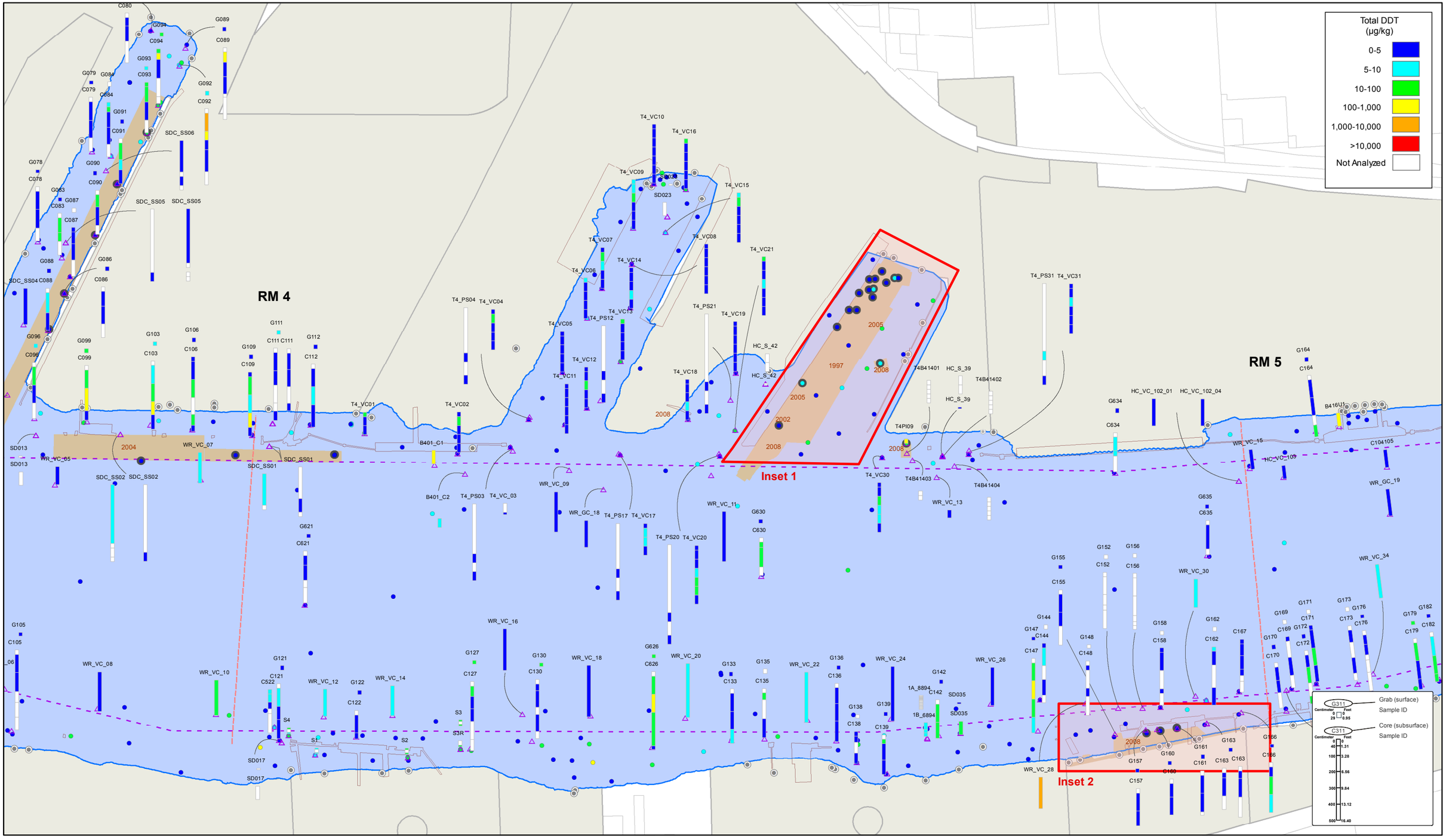
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

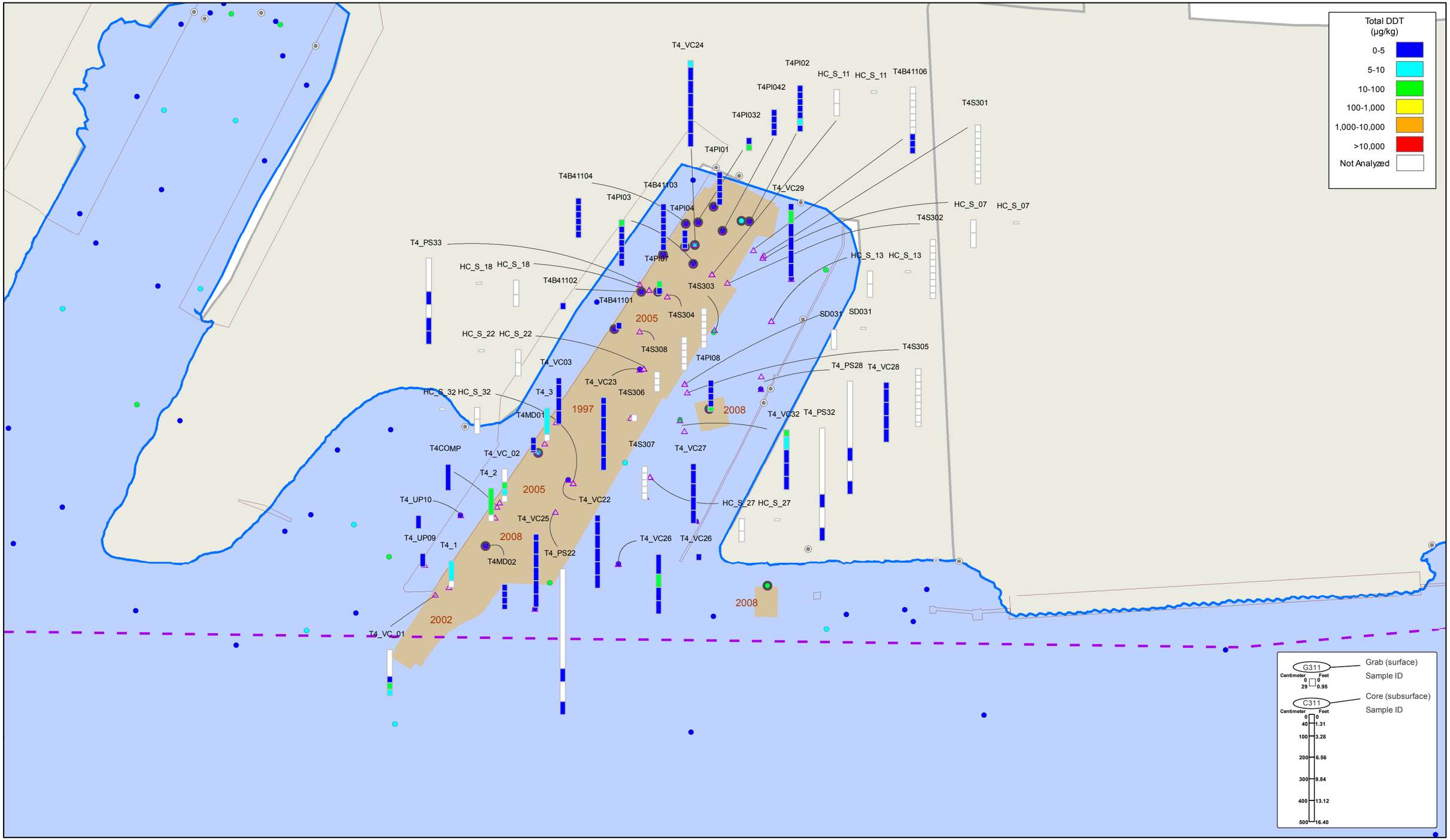
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 04 to 05 - Slips



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 115 230 460 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

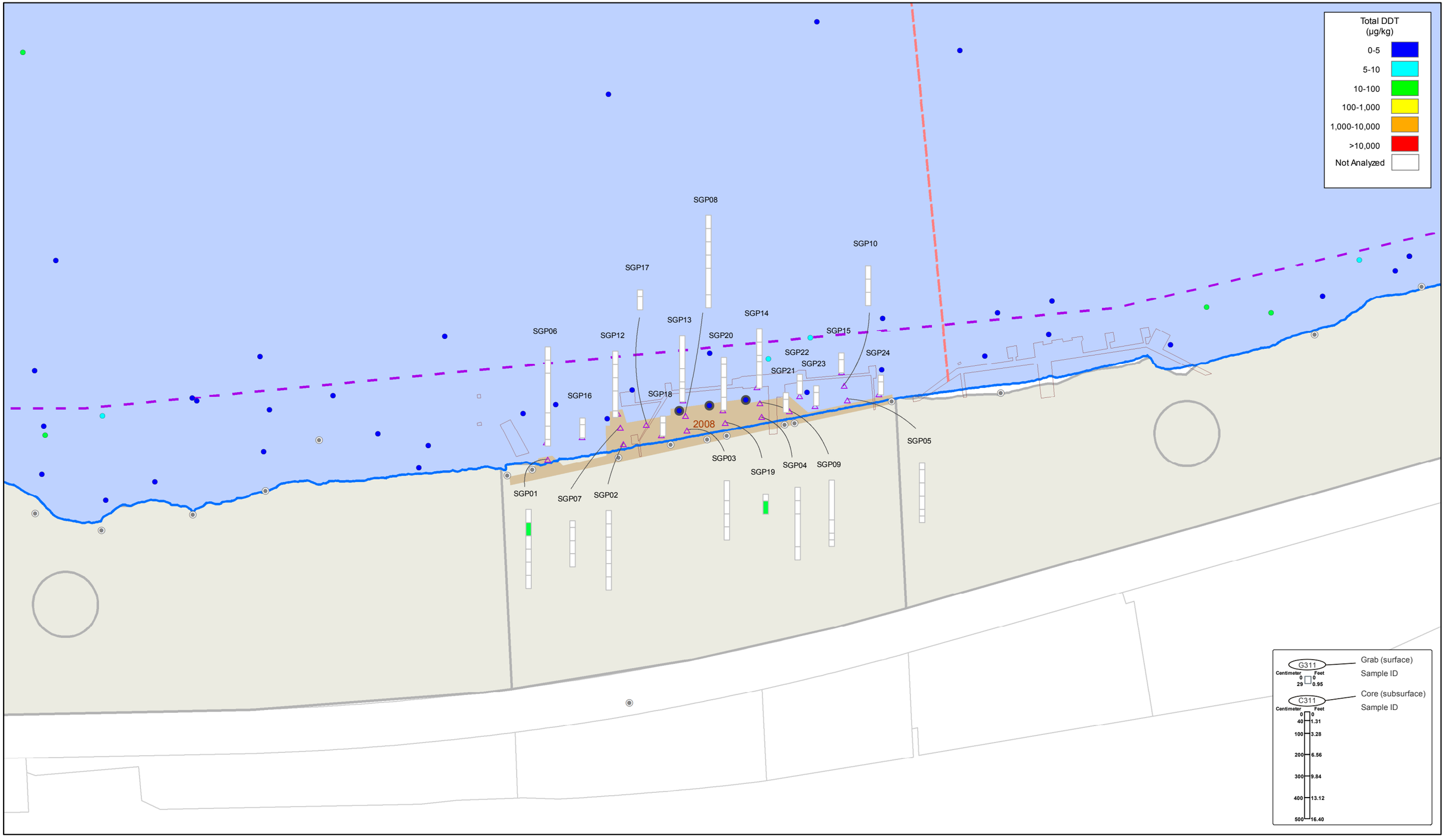
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 04 to 05 - Slips - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Insets.mxd) - 3/9/2009 -- 4:17:02 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 115 230 460 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

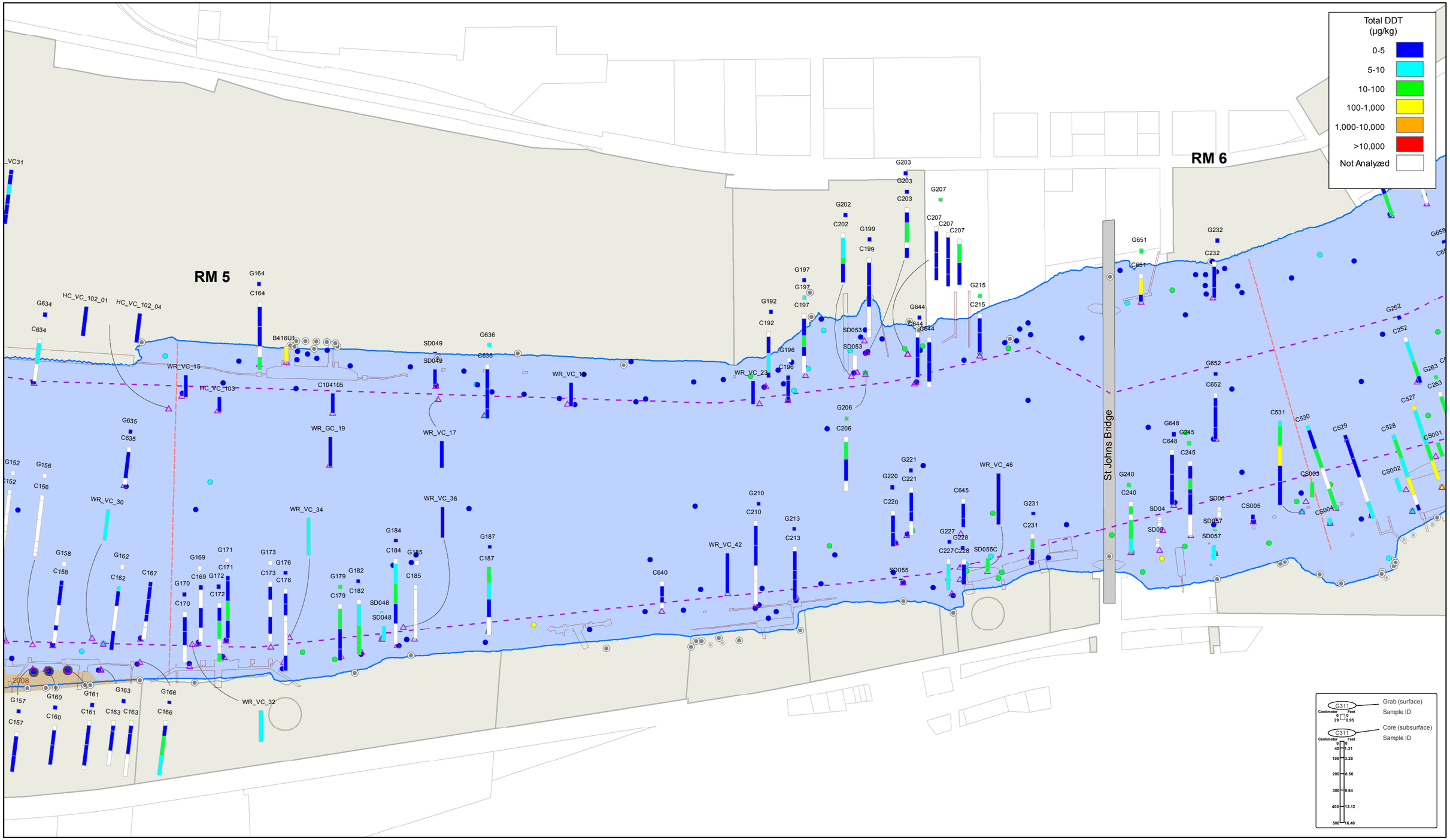
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

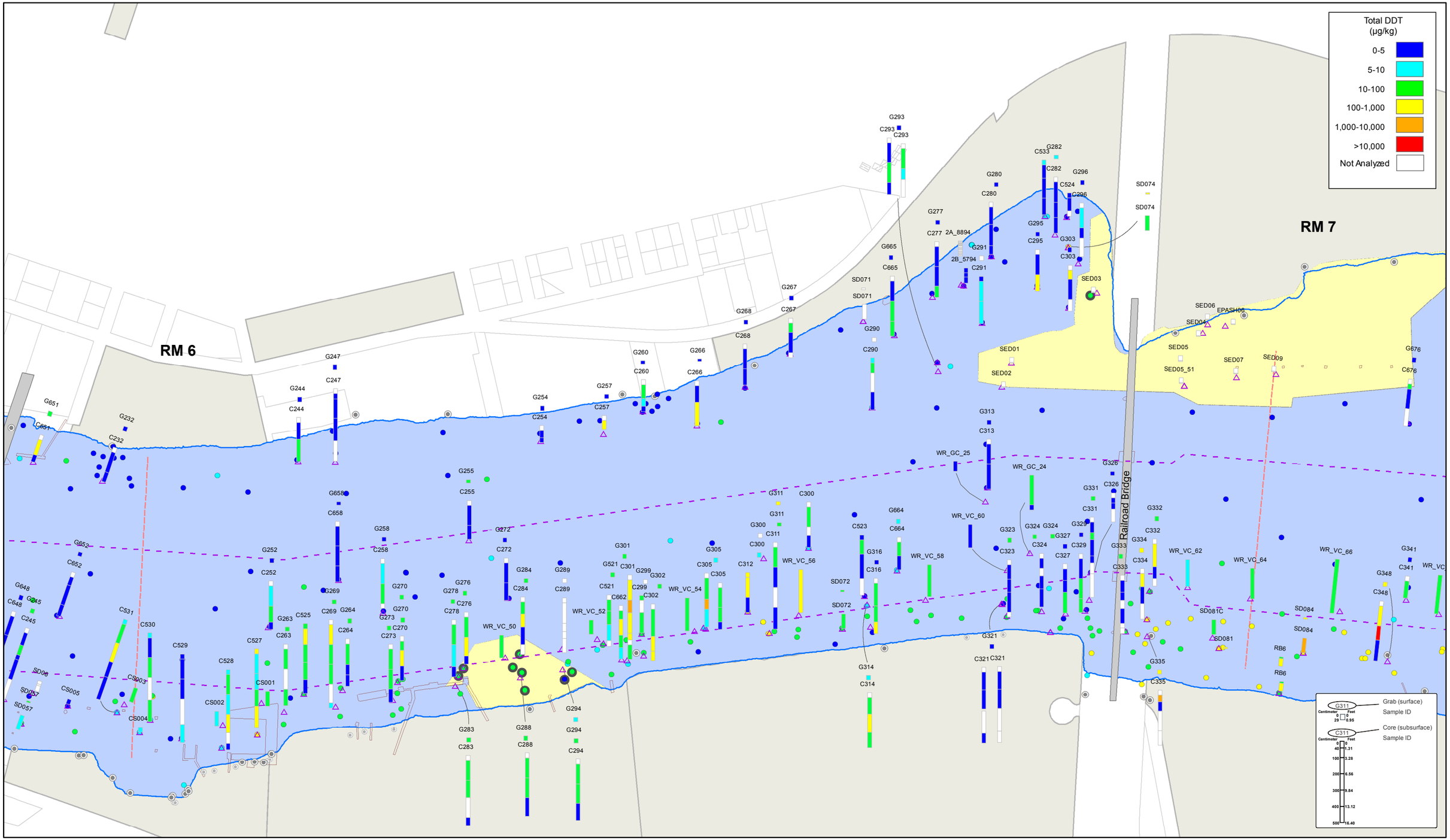
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 05 to 06



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

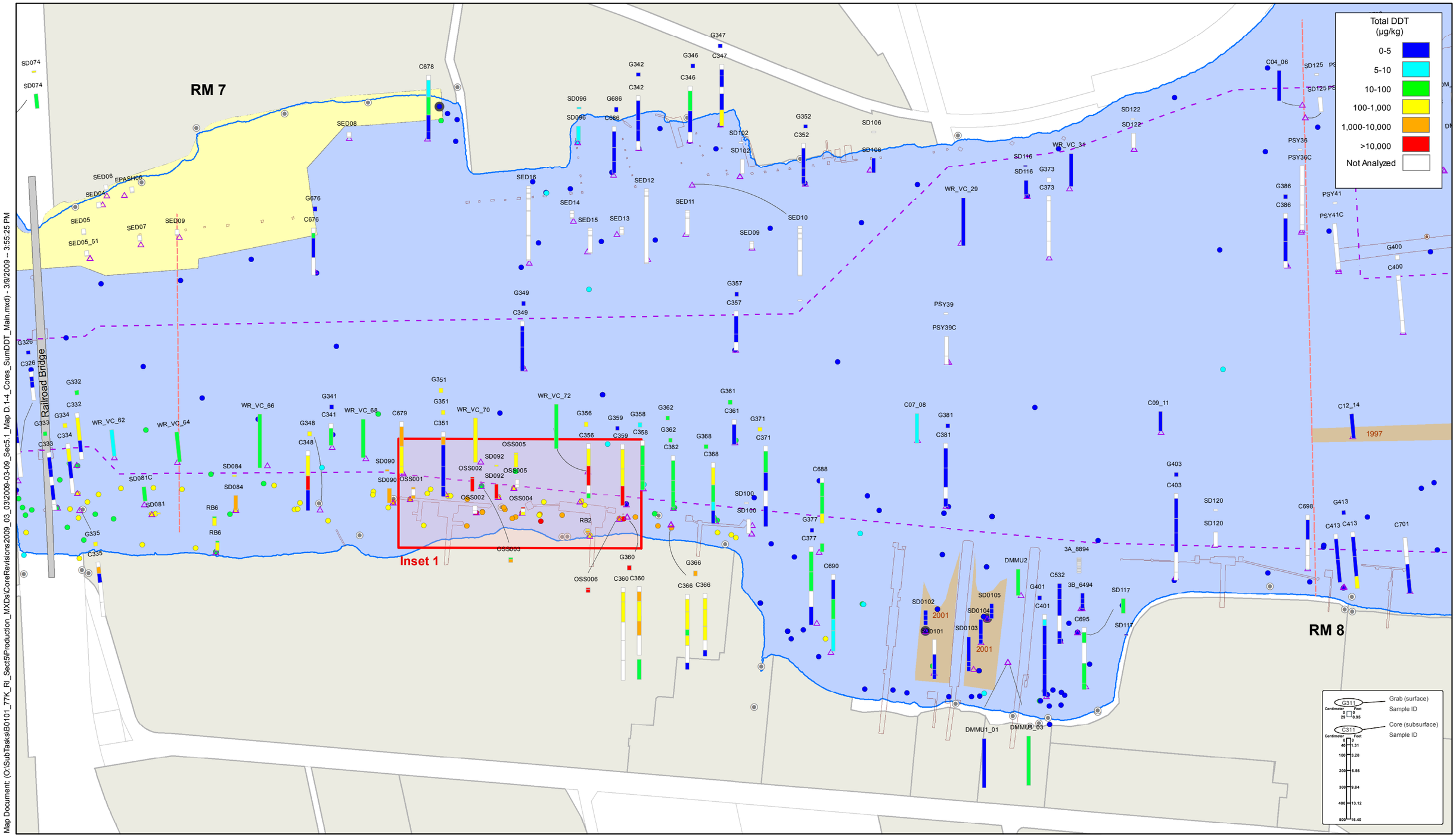
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

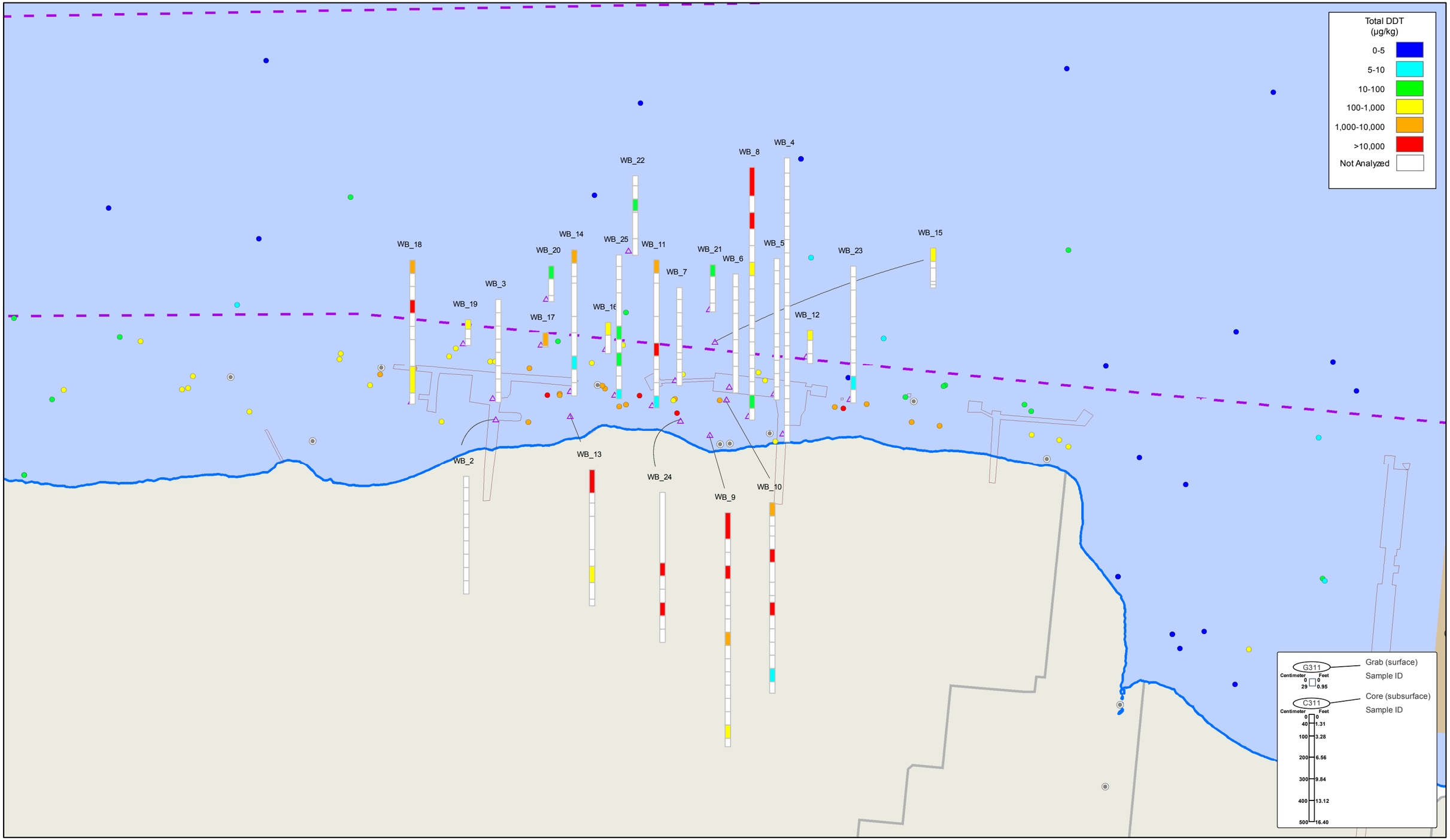
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 07 to 08



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Insets.mxd) - 3/9/2009 -- 4:17:02 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 115 230 460 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

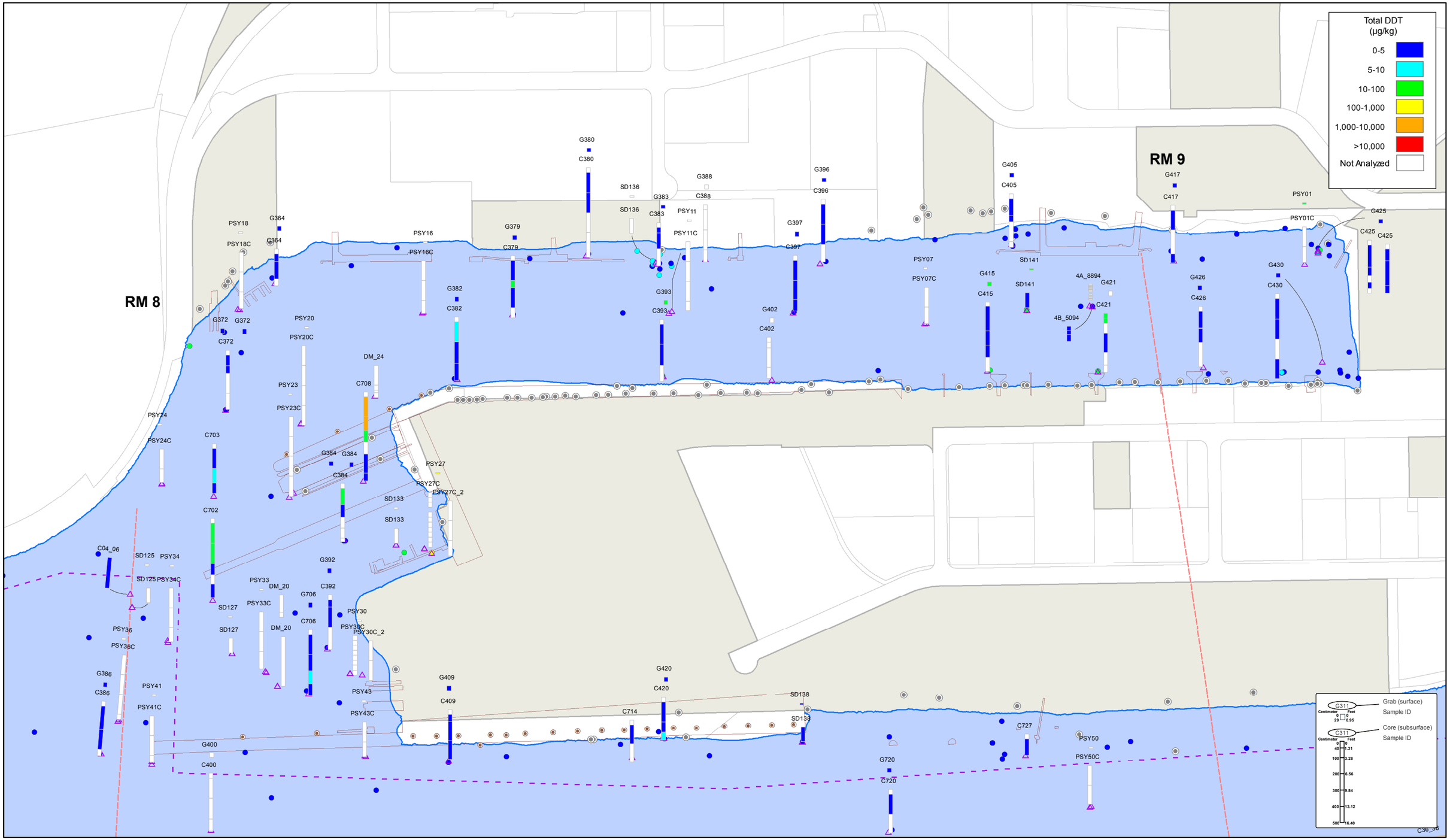
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5h1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 07 to 08 - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

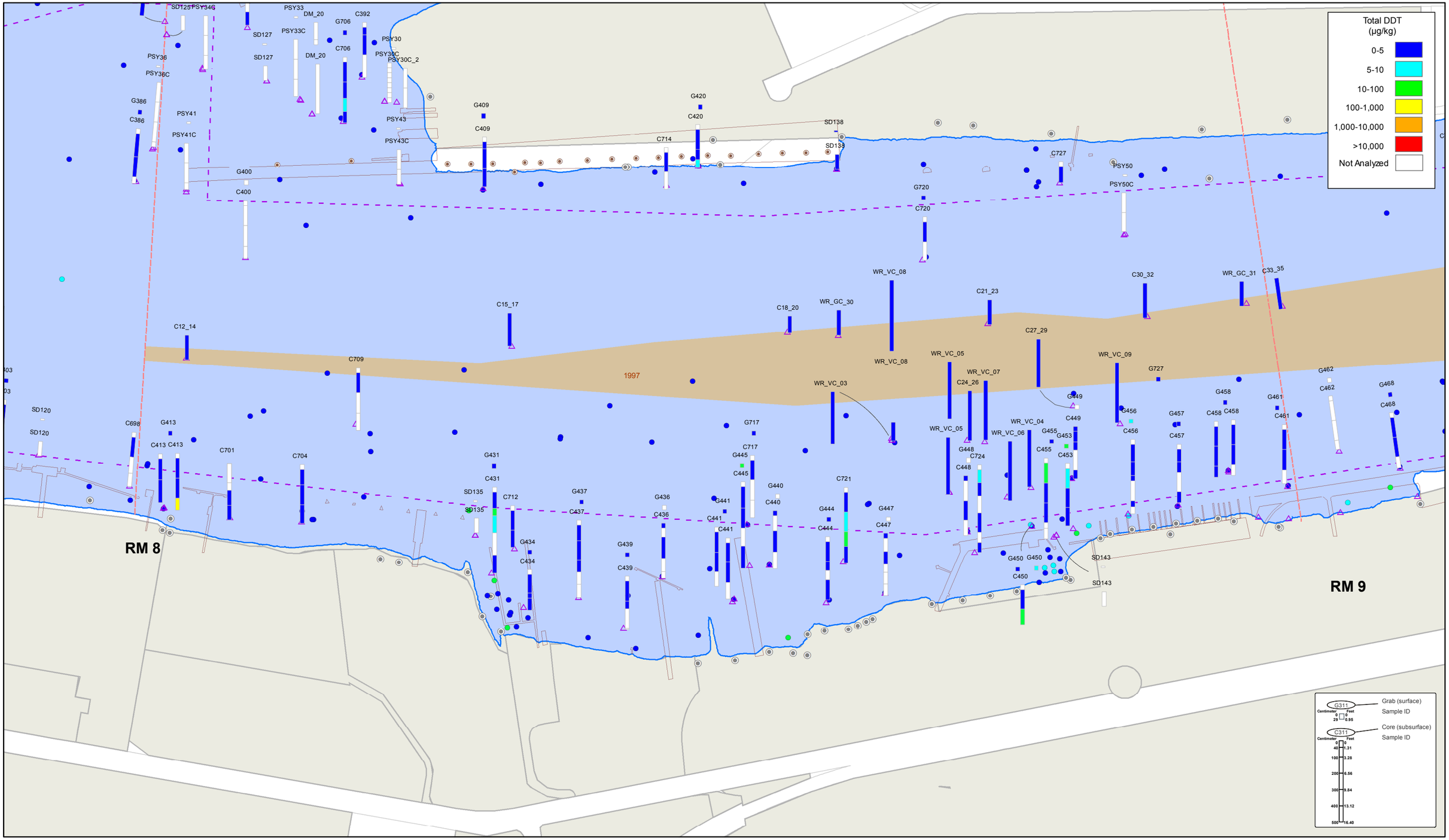
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 08 to 09 - Swan Is. East

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

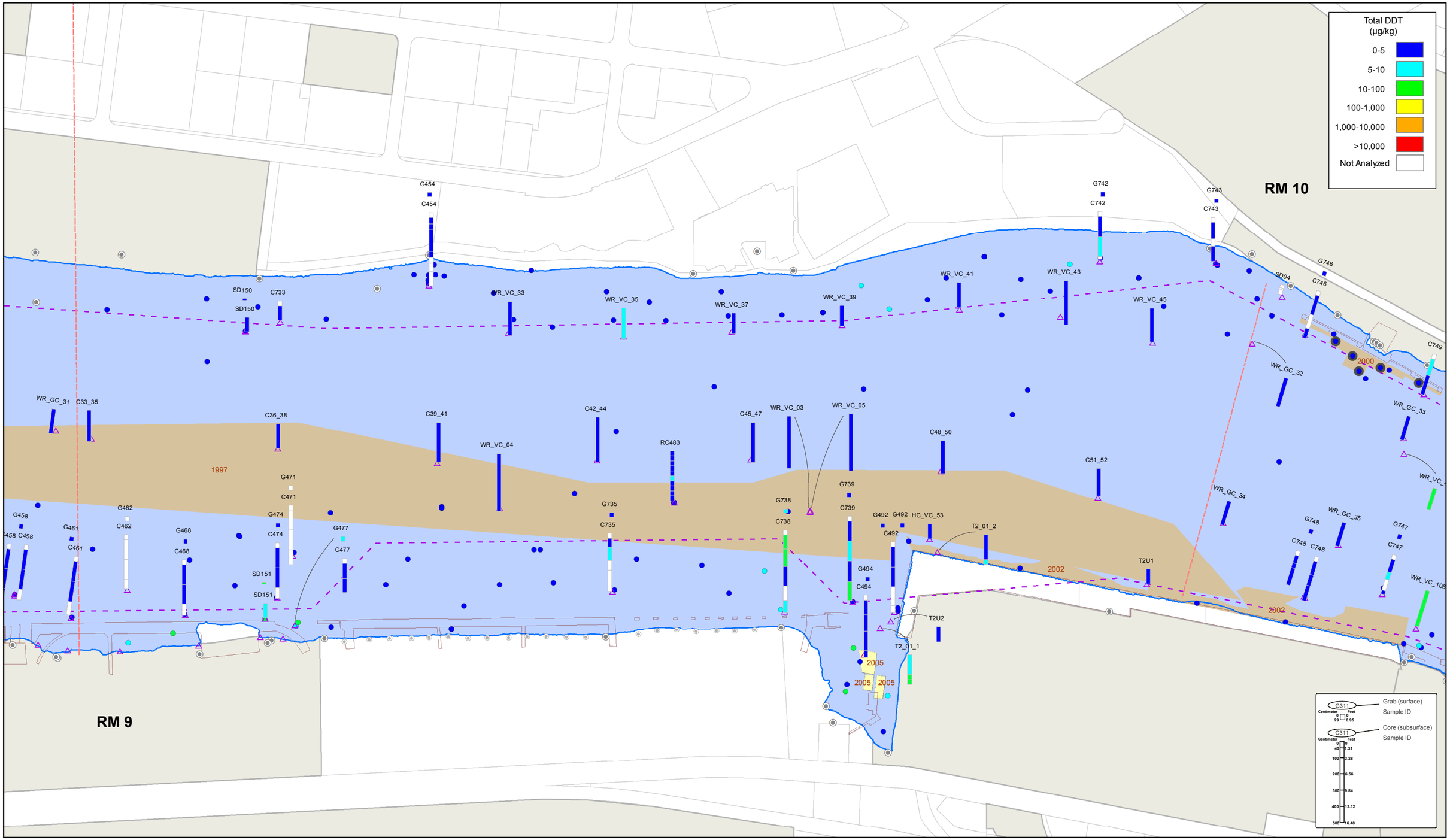
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 08 to 09 - Swan Is. West



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

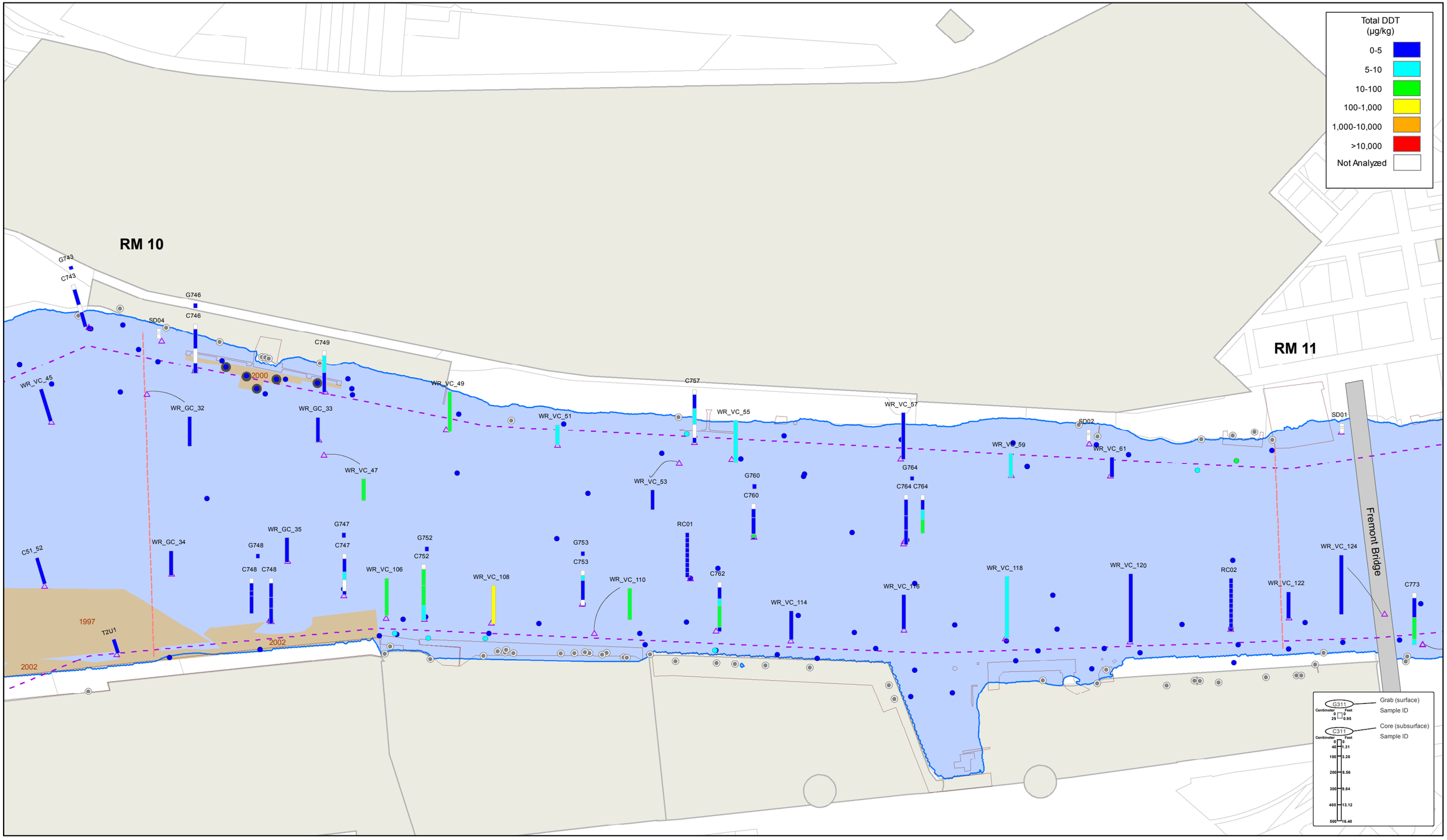
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-4_Cores_SumDDT_Main.mxd) - 3/9/2009 -- 3:55:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

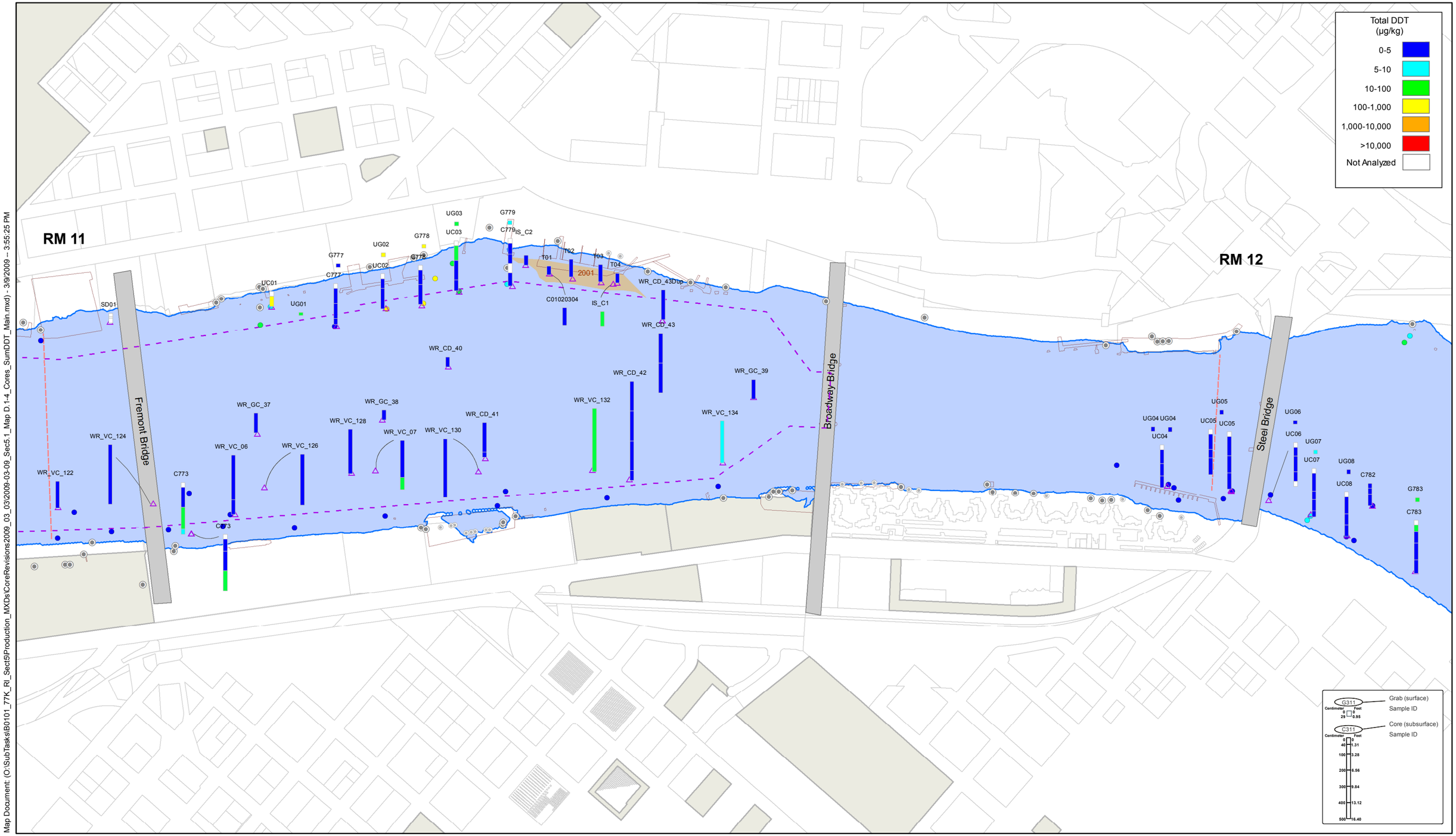
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 10 to 11



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

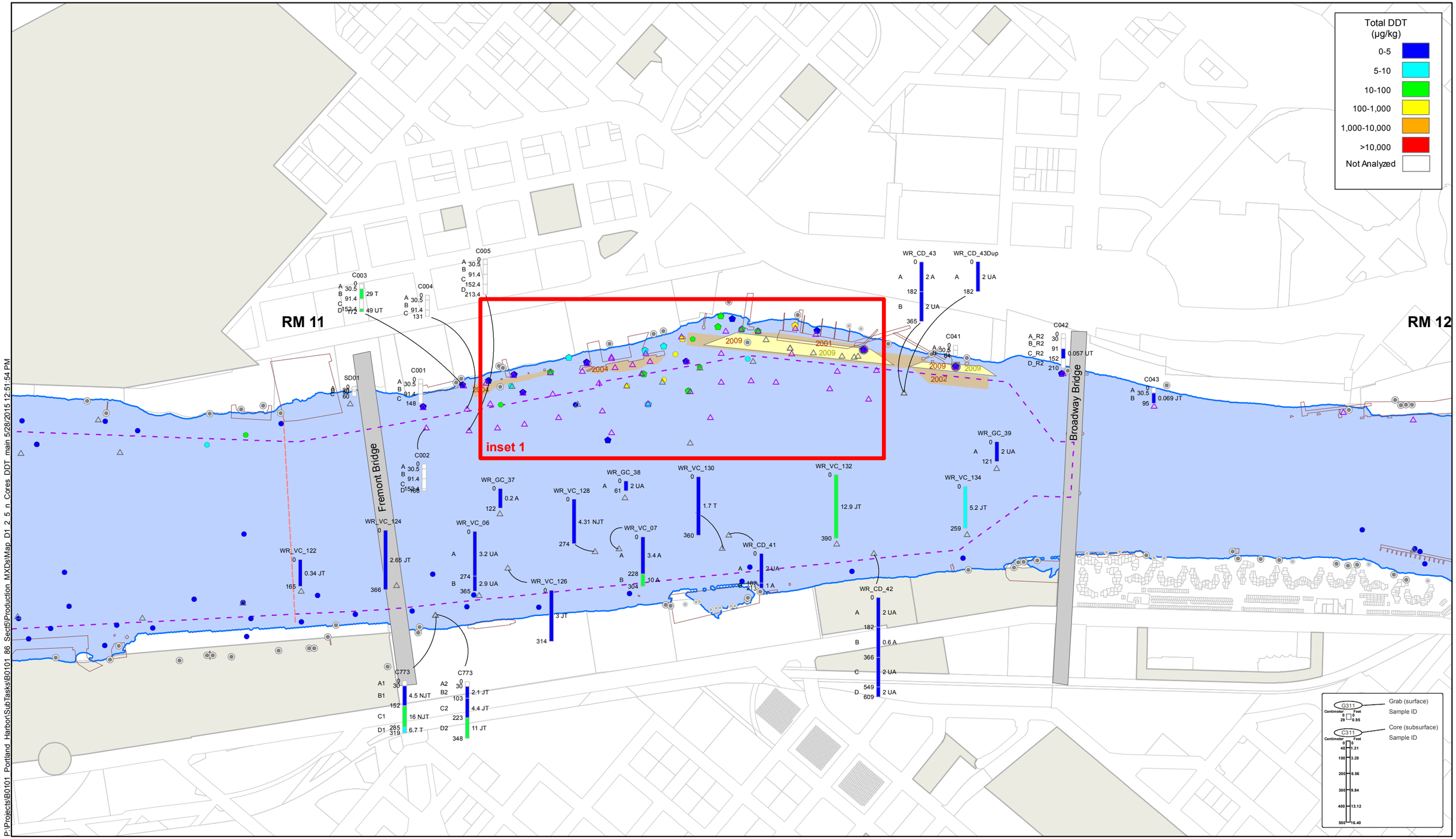
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)
River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)

River Mile 11.0 - 11.8

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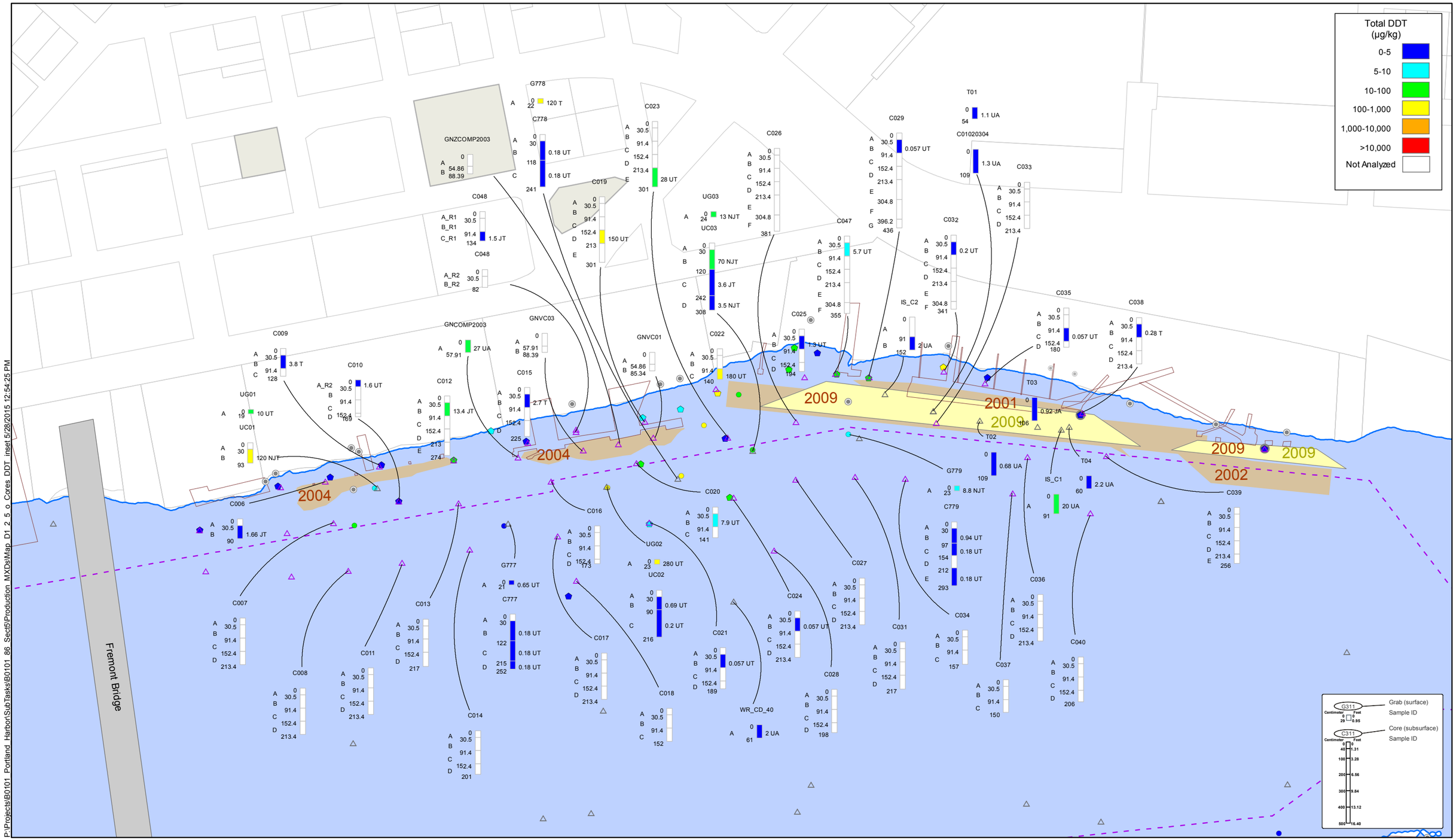

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-5o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDT (µg/kg)

River Mile 11.0 - 11.8 - Inset 1

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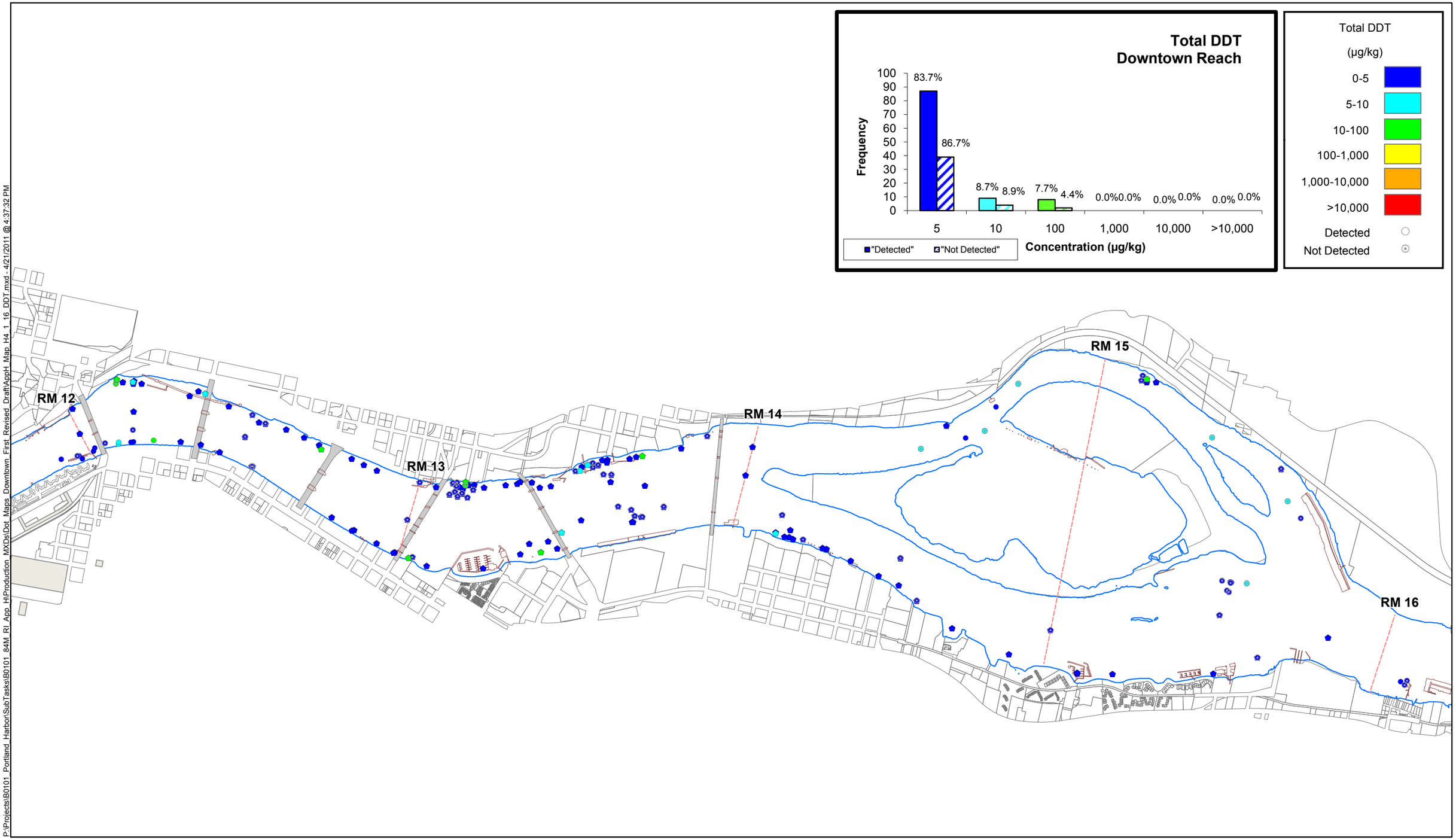

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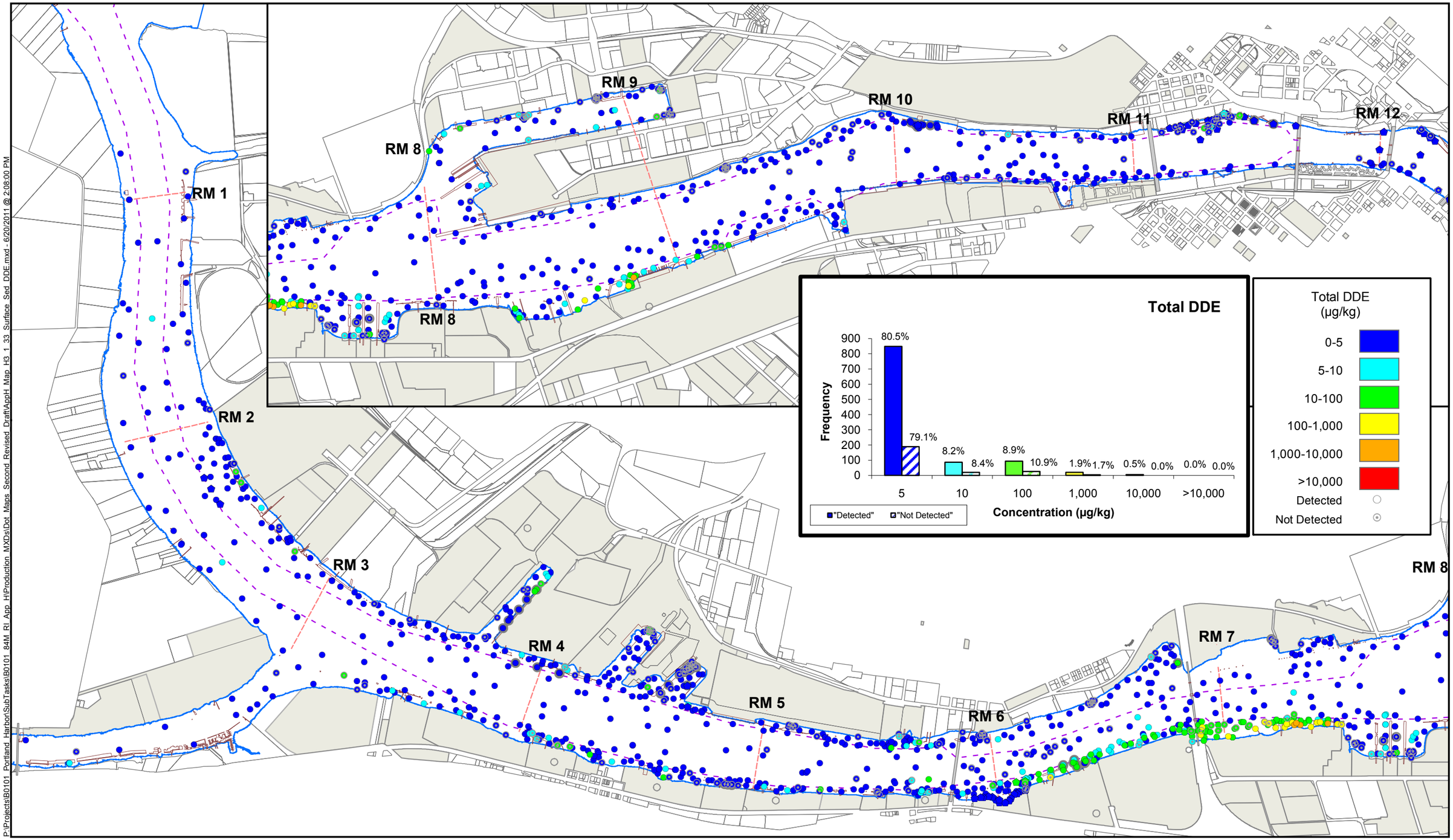
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-6
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total DDT (µg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

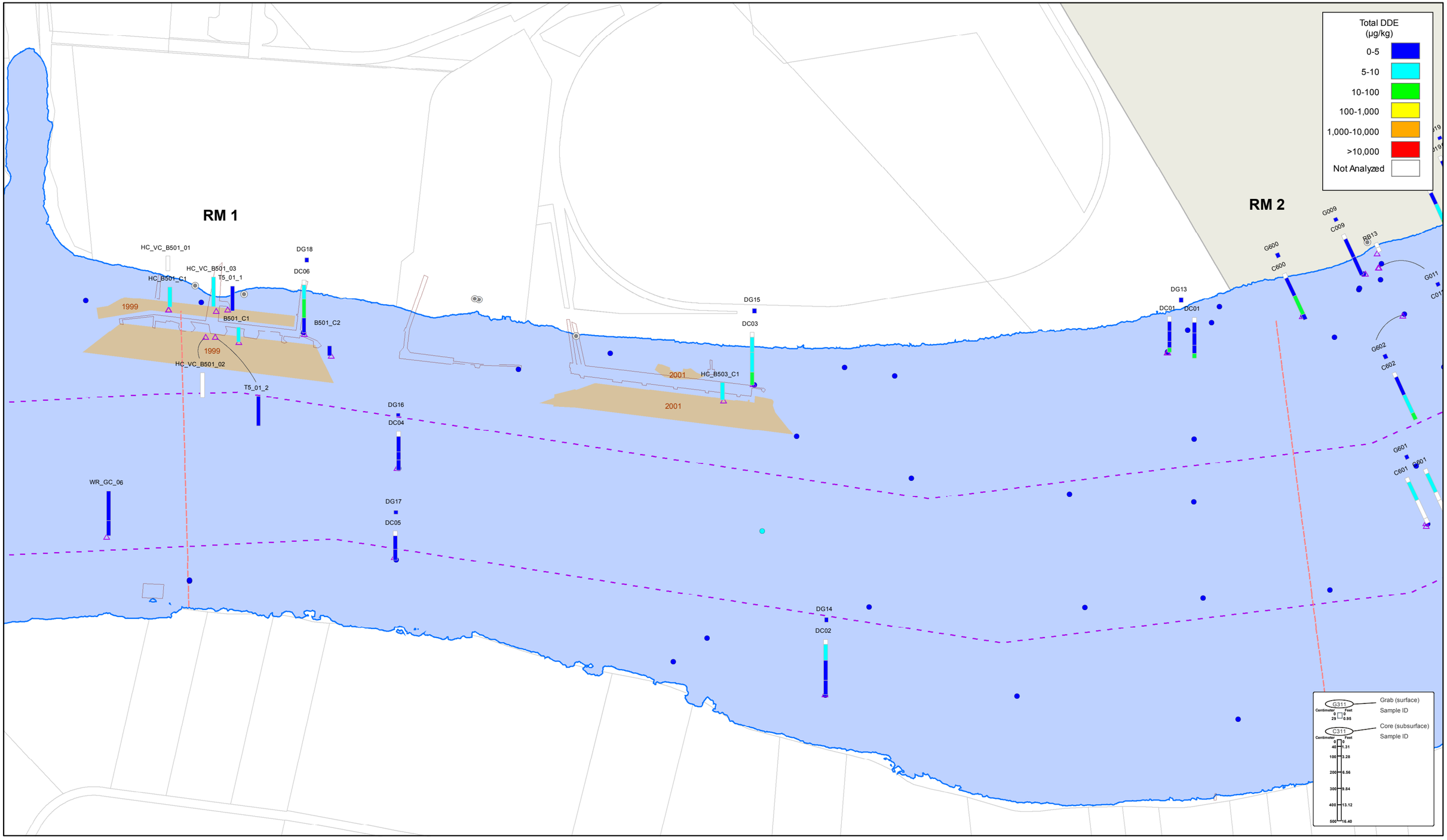
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-7
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total DDE (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-6_Cores_SumDDE_Main.mxd) -- 3/9/2009 -- 2:45:47 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

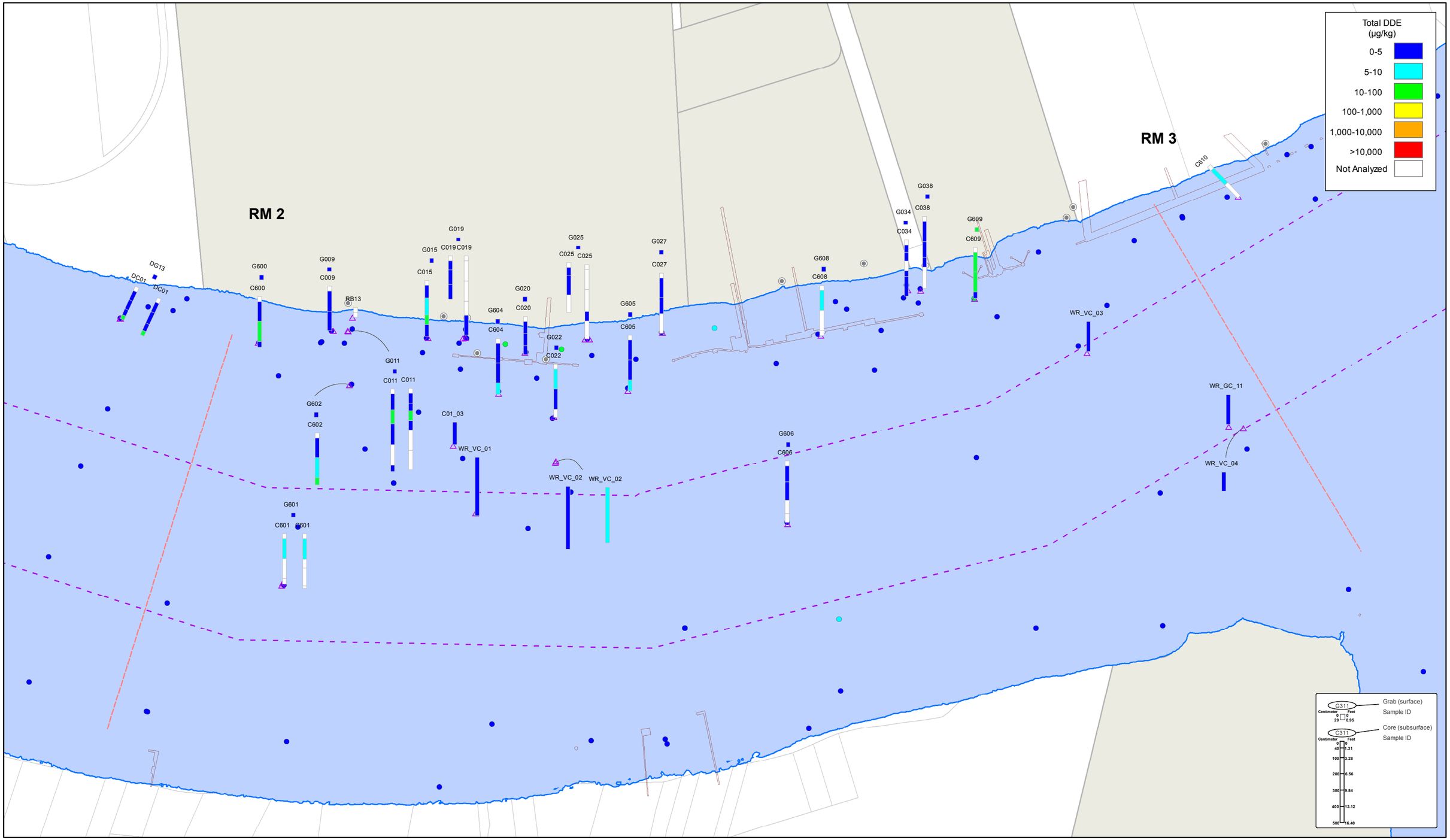
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-6_Cores_SumDDE_Main.mxd) - 3/9/2009 -- 2:45:47 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

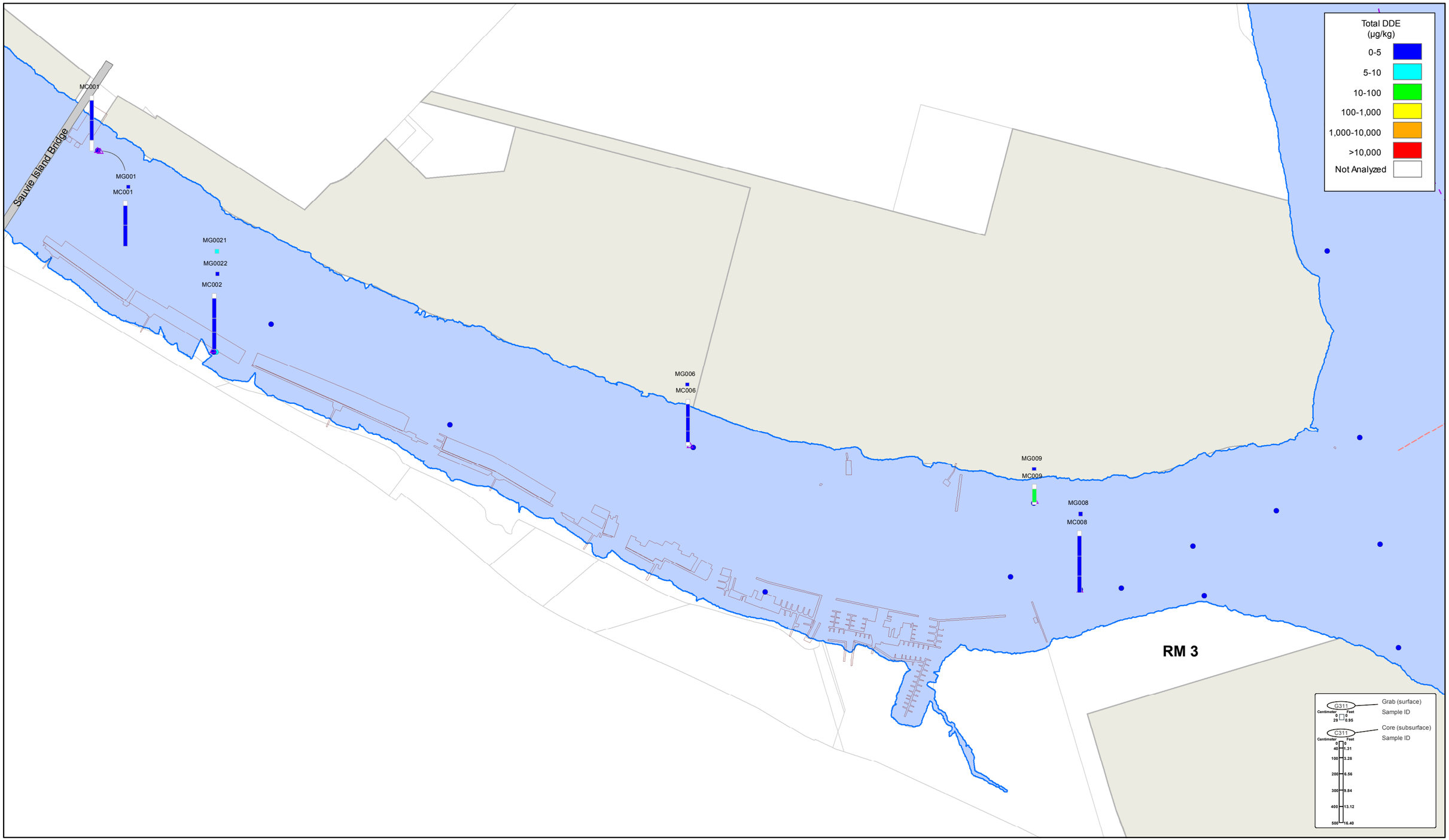
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-6_Cores_SumDDE_Main.mxd) - 3/9/2009 -- 2:45:47 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

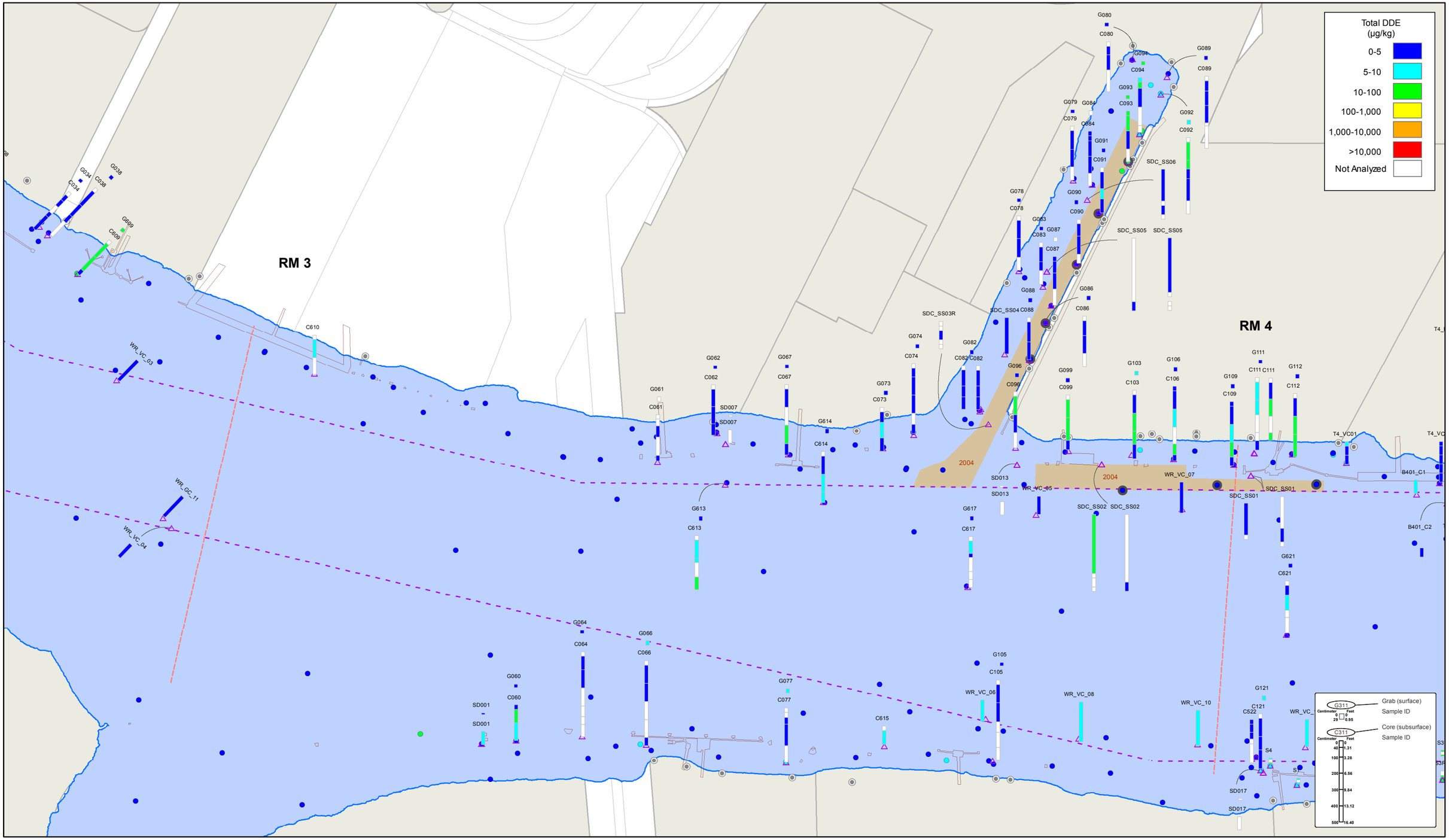
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

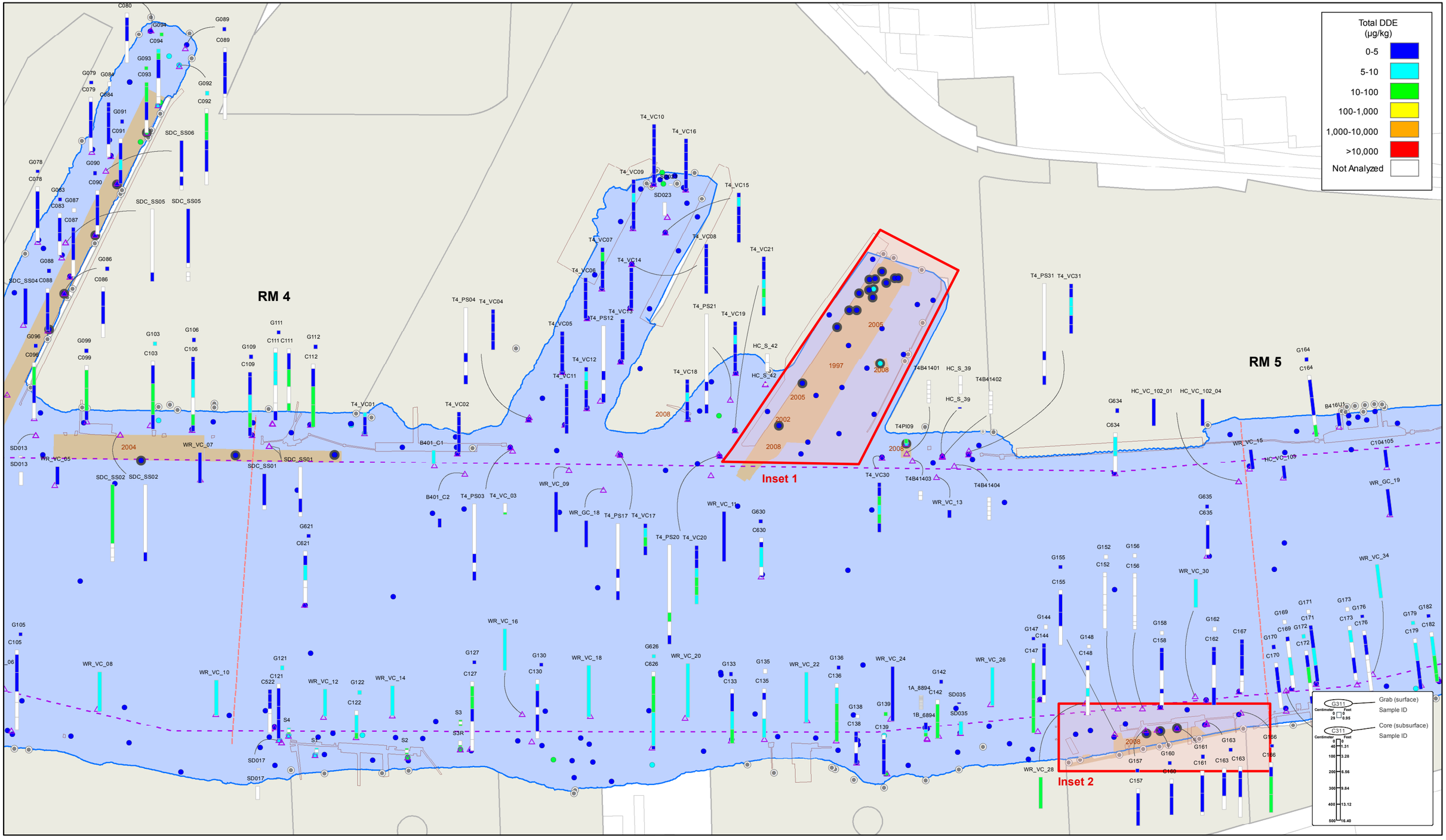
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 03 to 04

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-6_Cores_SumDDE_Main.mxd) - 3/9/2009 -- 2:45:47 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

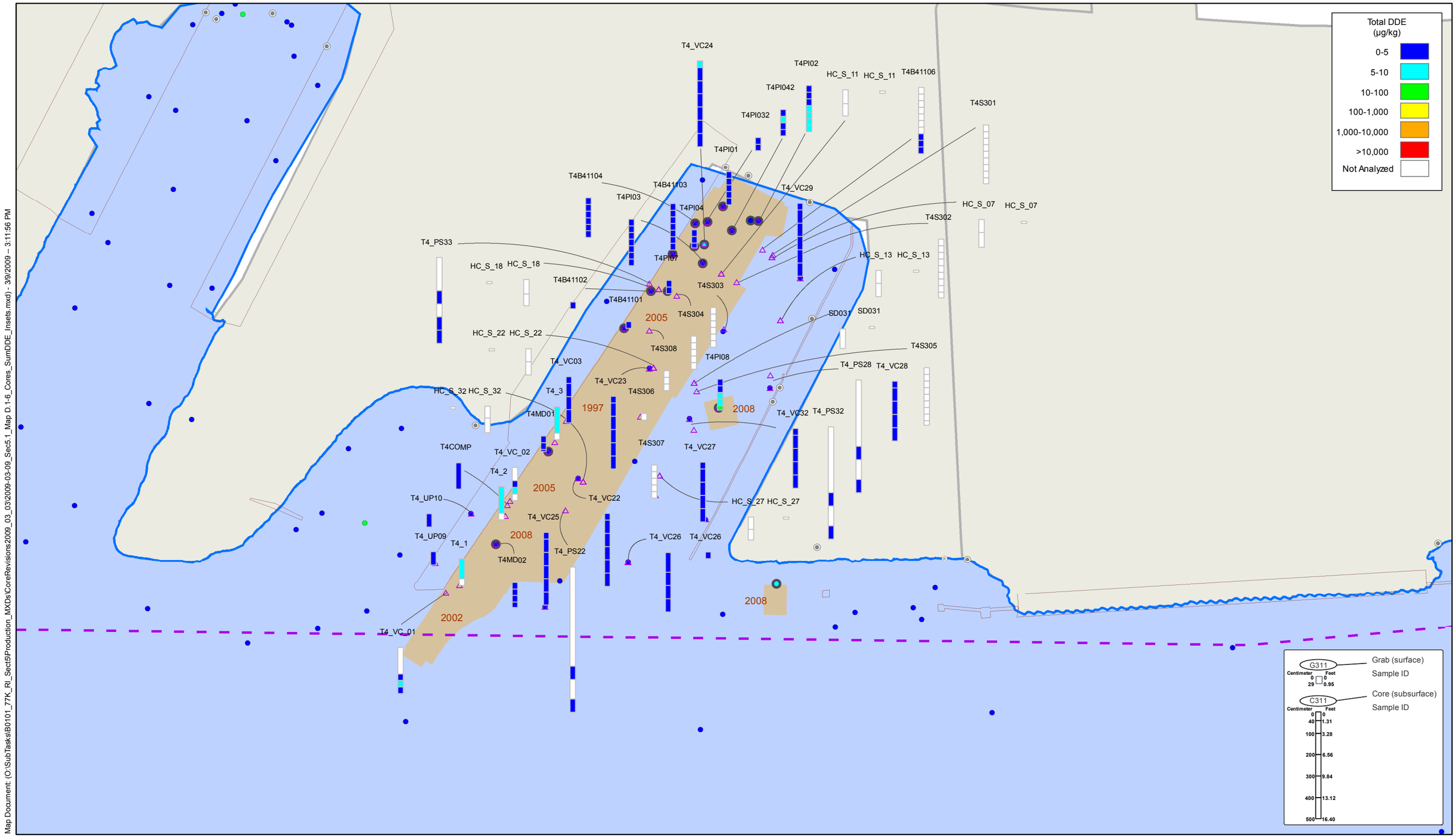
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

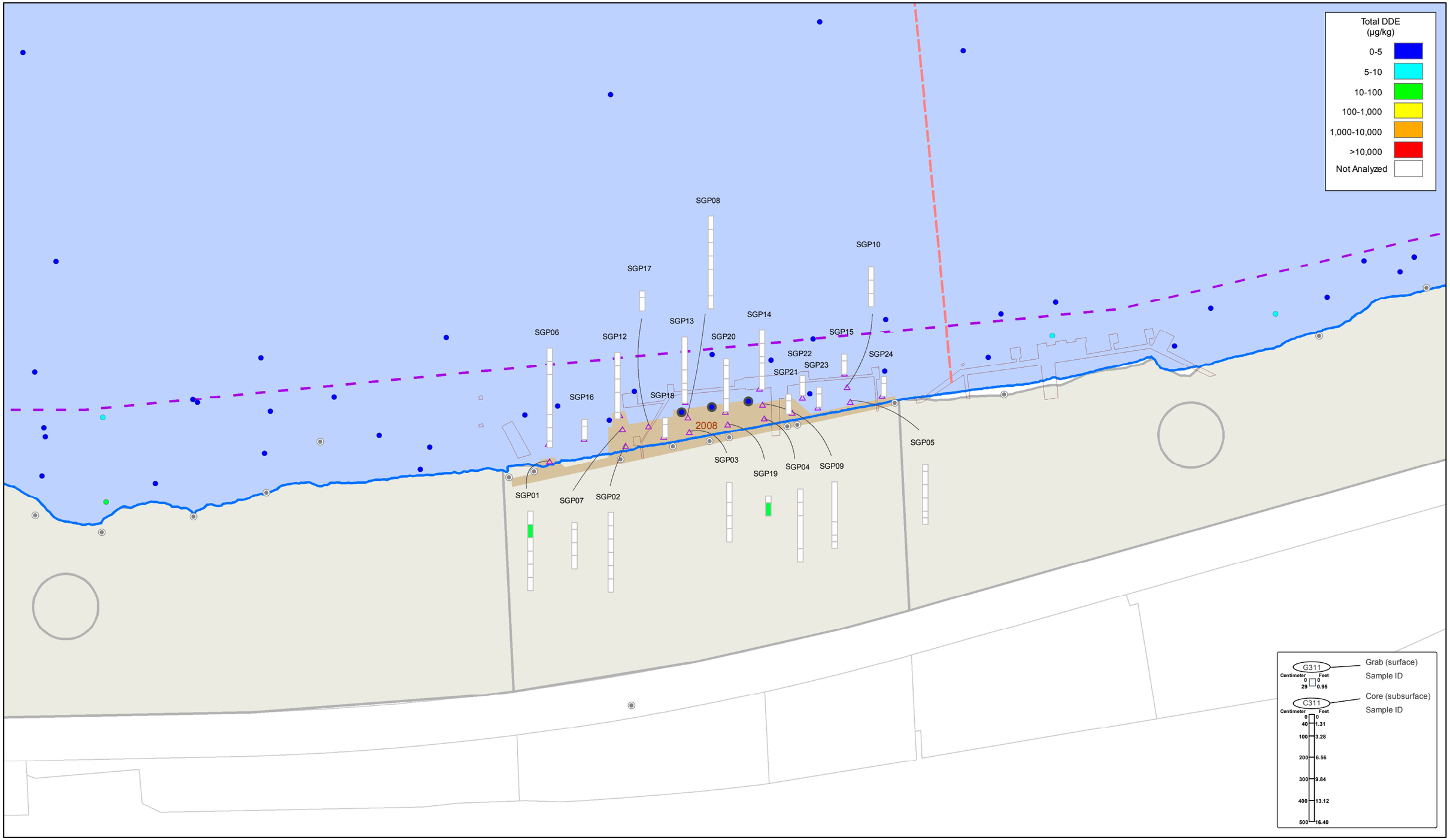
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8 e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 04 to 05 - Slips - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-6_Cores_SumDDE_Insets.mxd) - 3/9/2009 -- 3:11:56 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

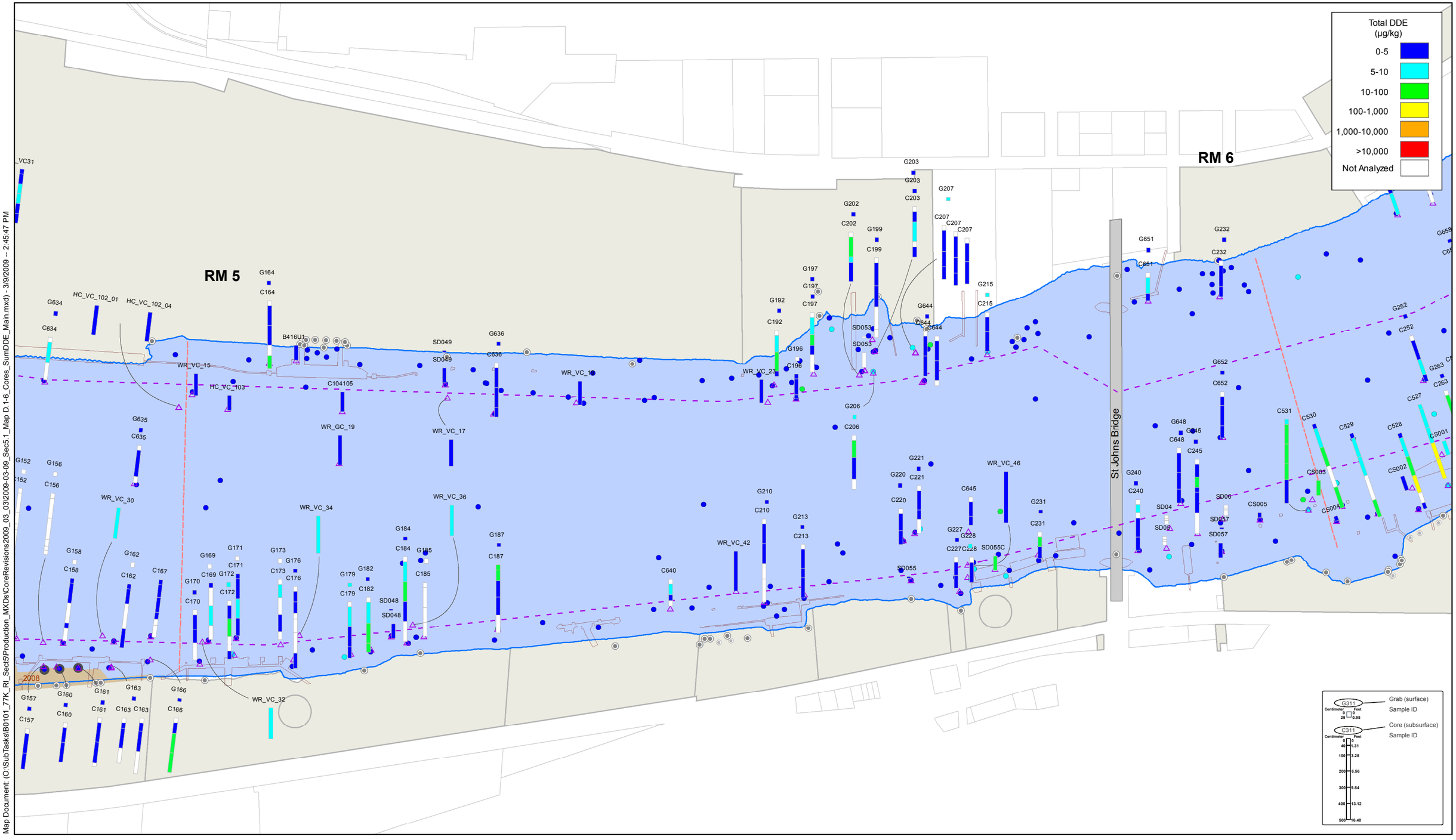
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8 e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

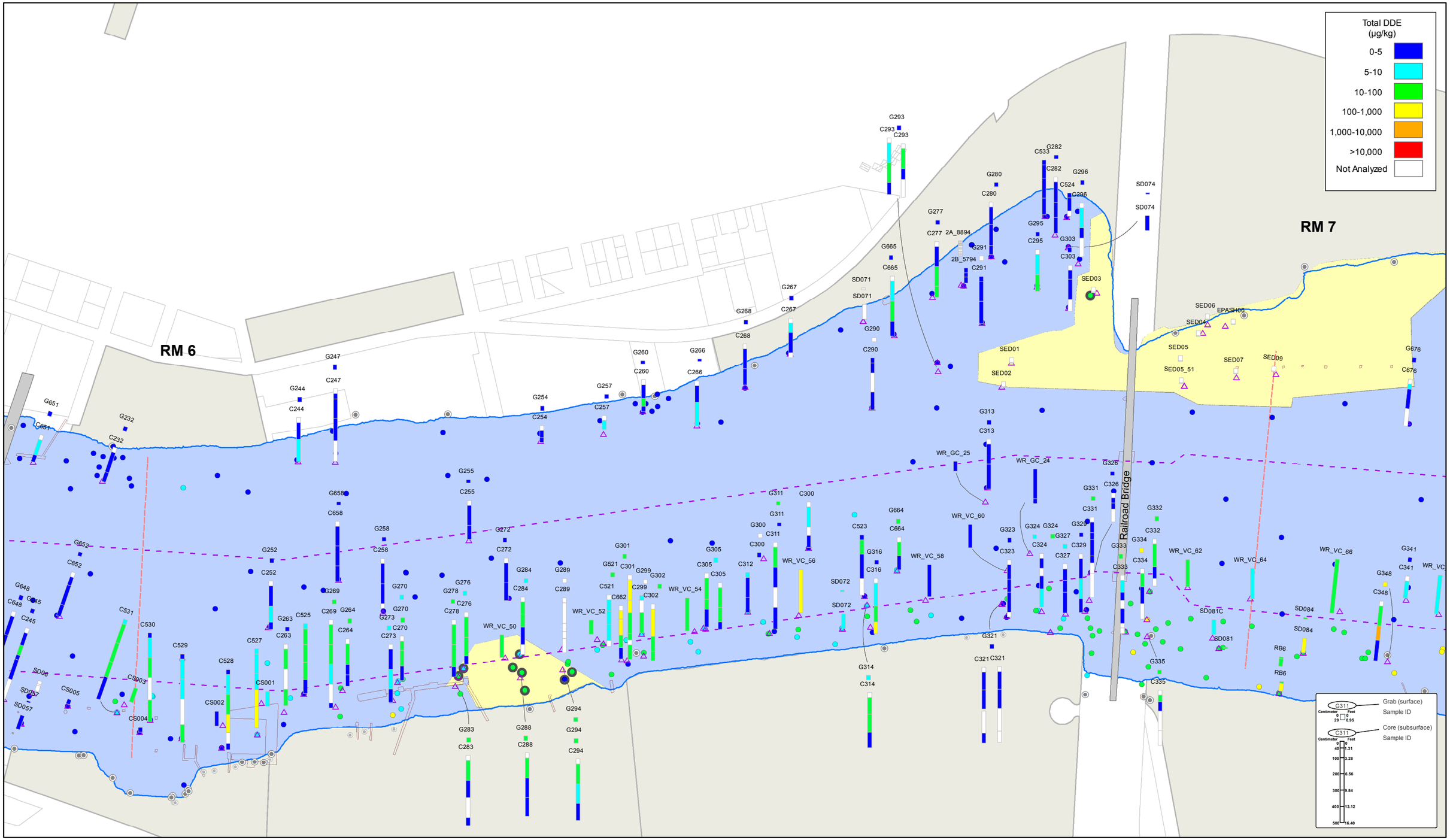
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

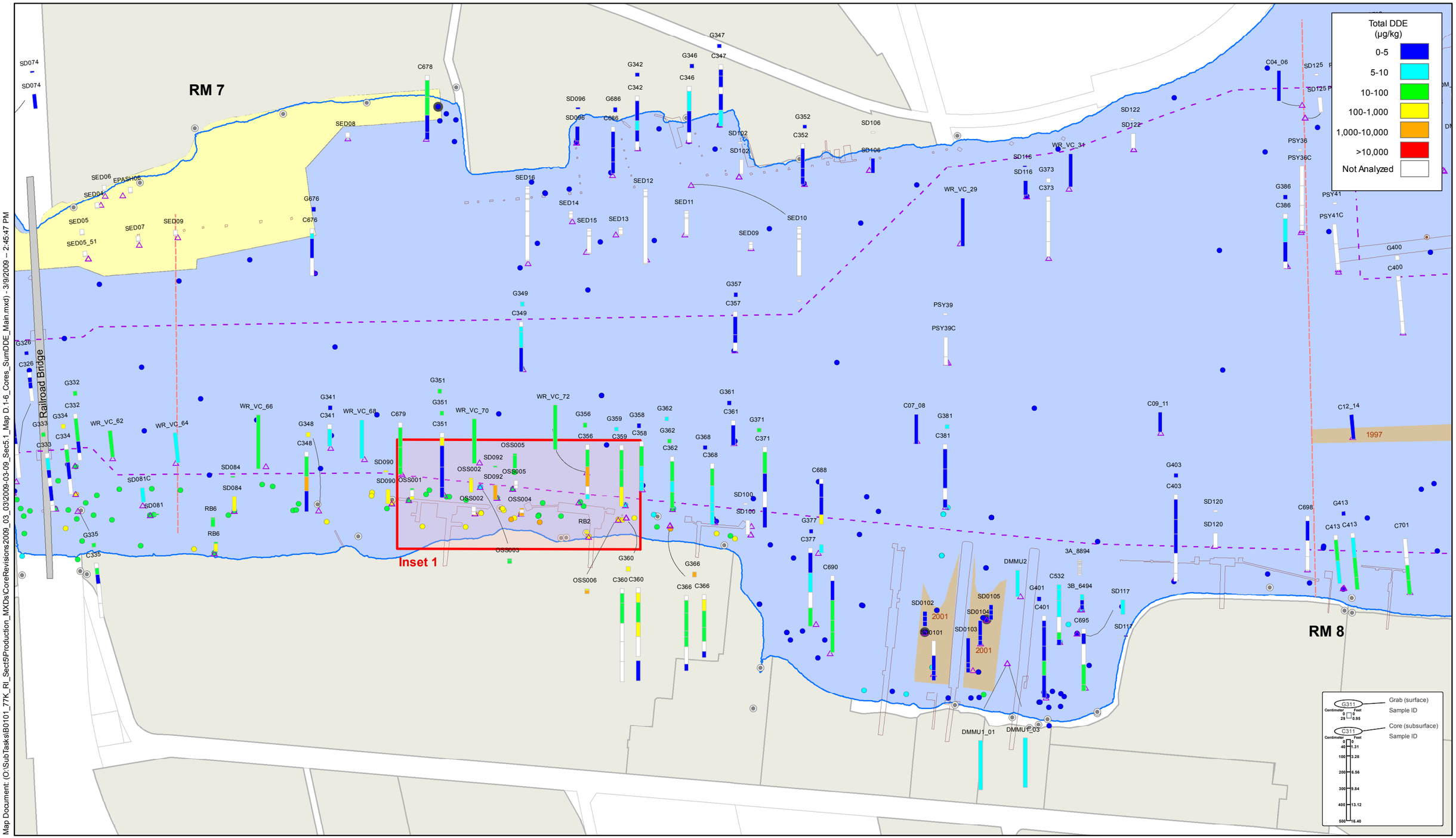
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 06 to 07



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

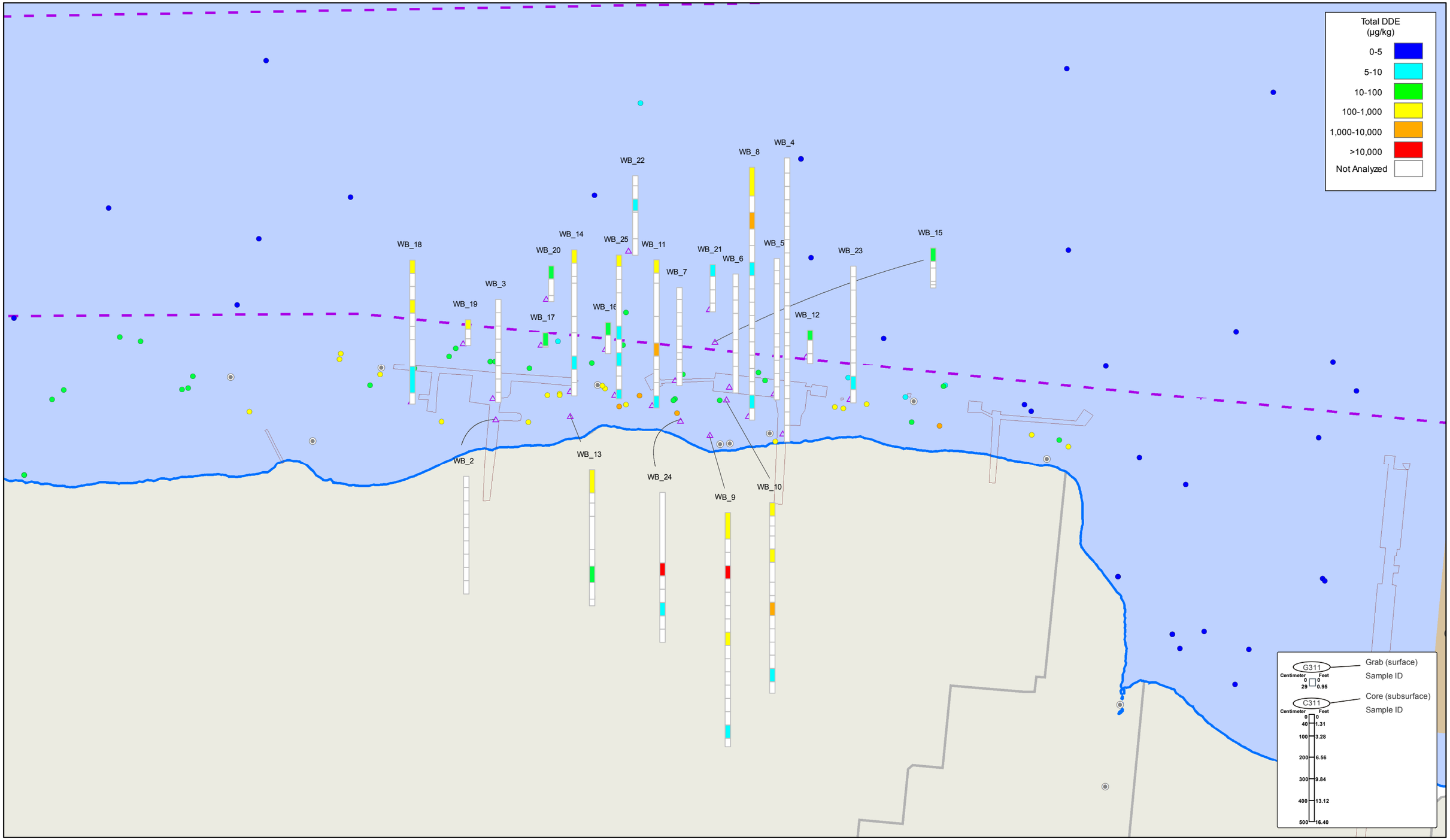
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 07 to 08



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

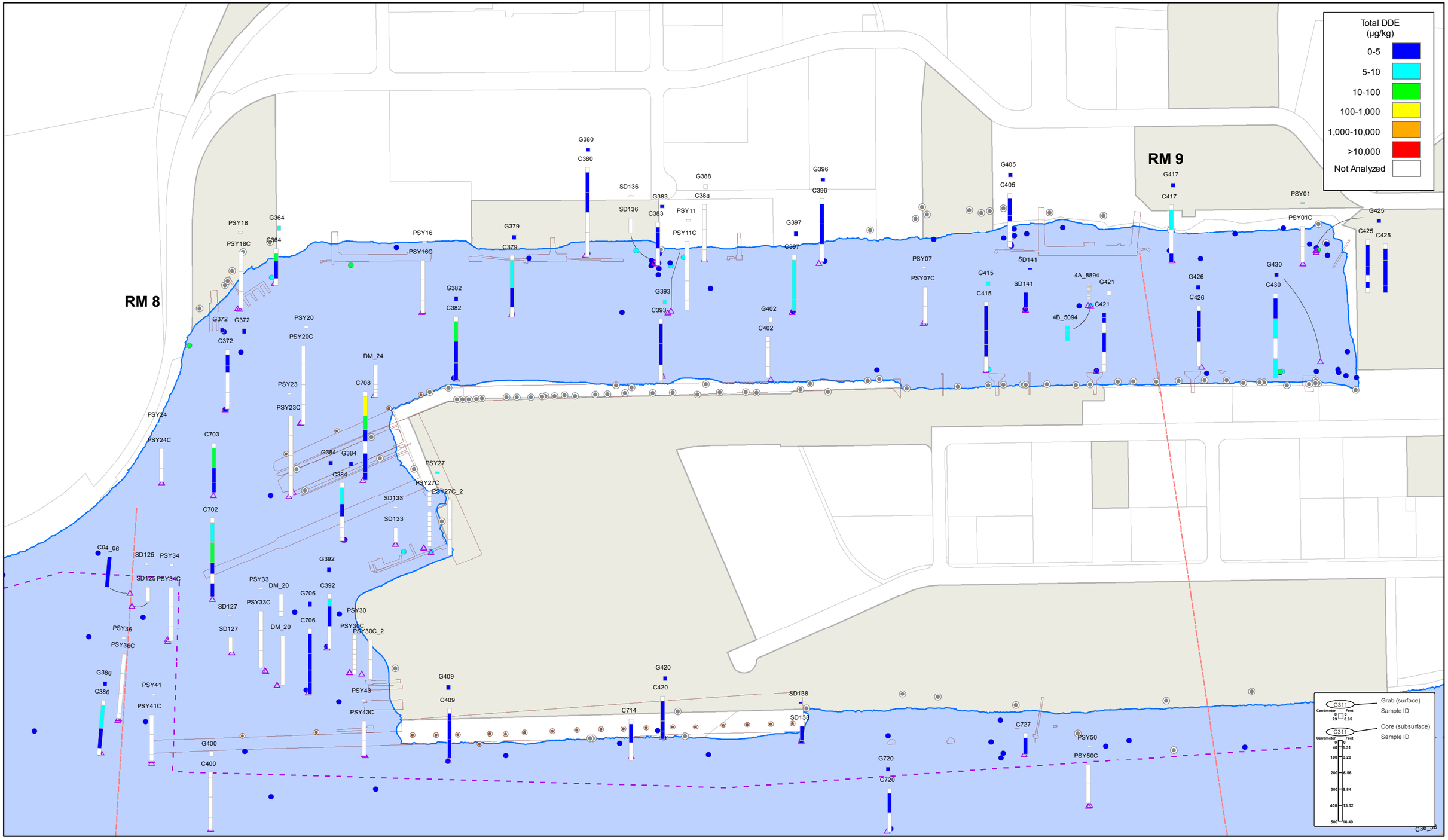
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8 h1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 07 to 08 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

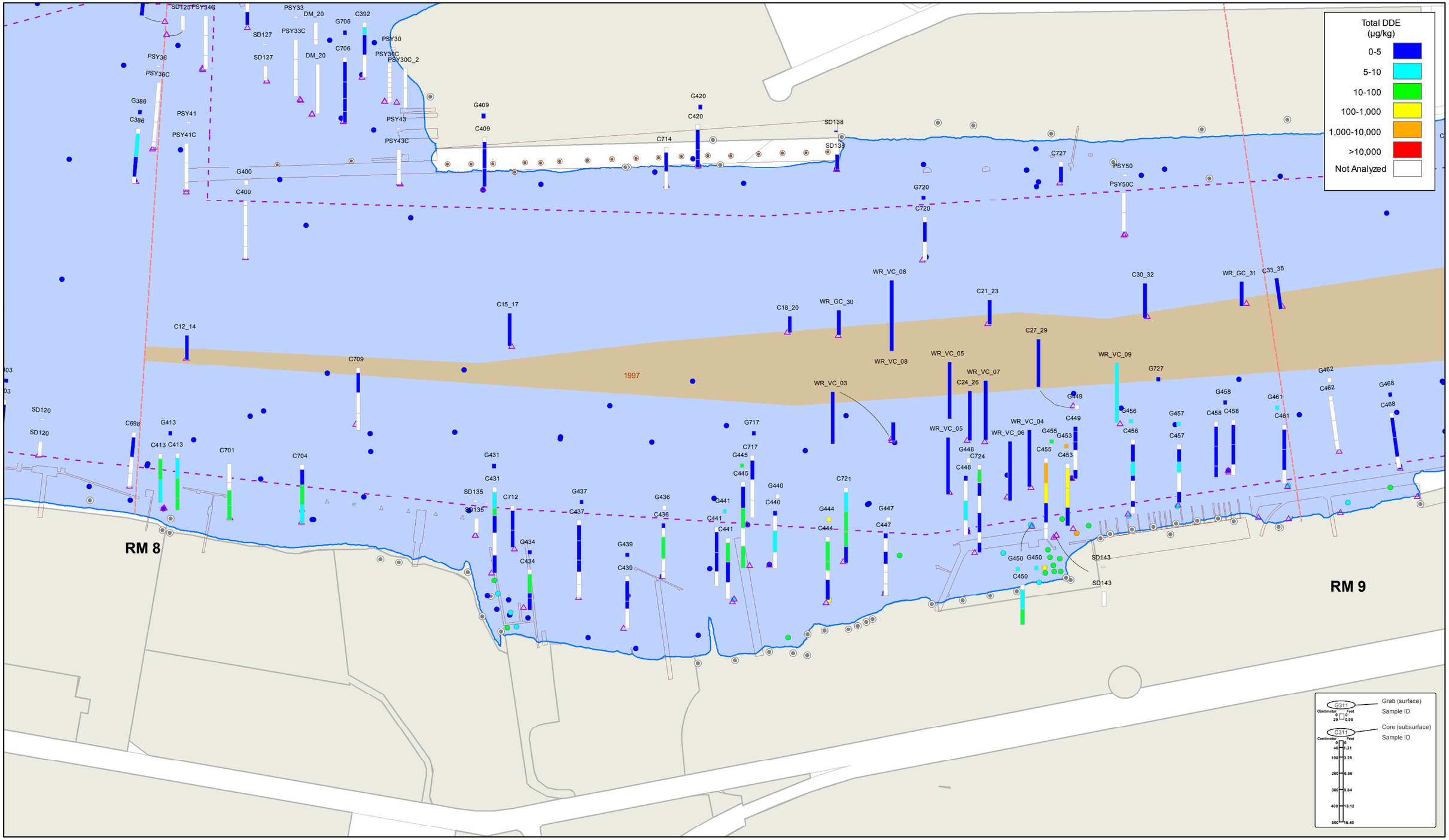
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

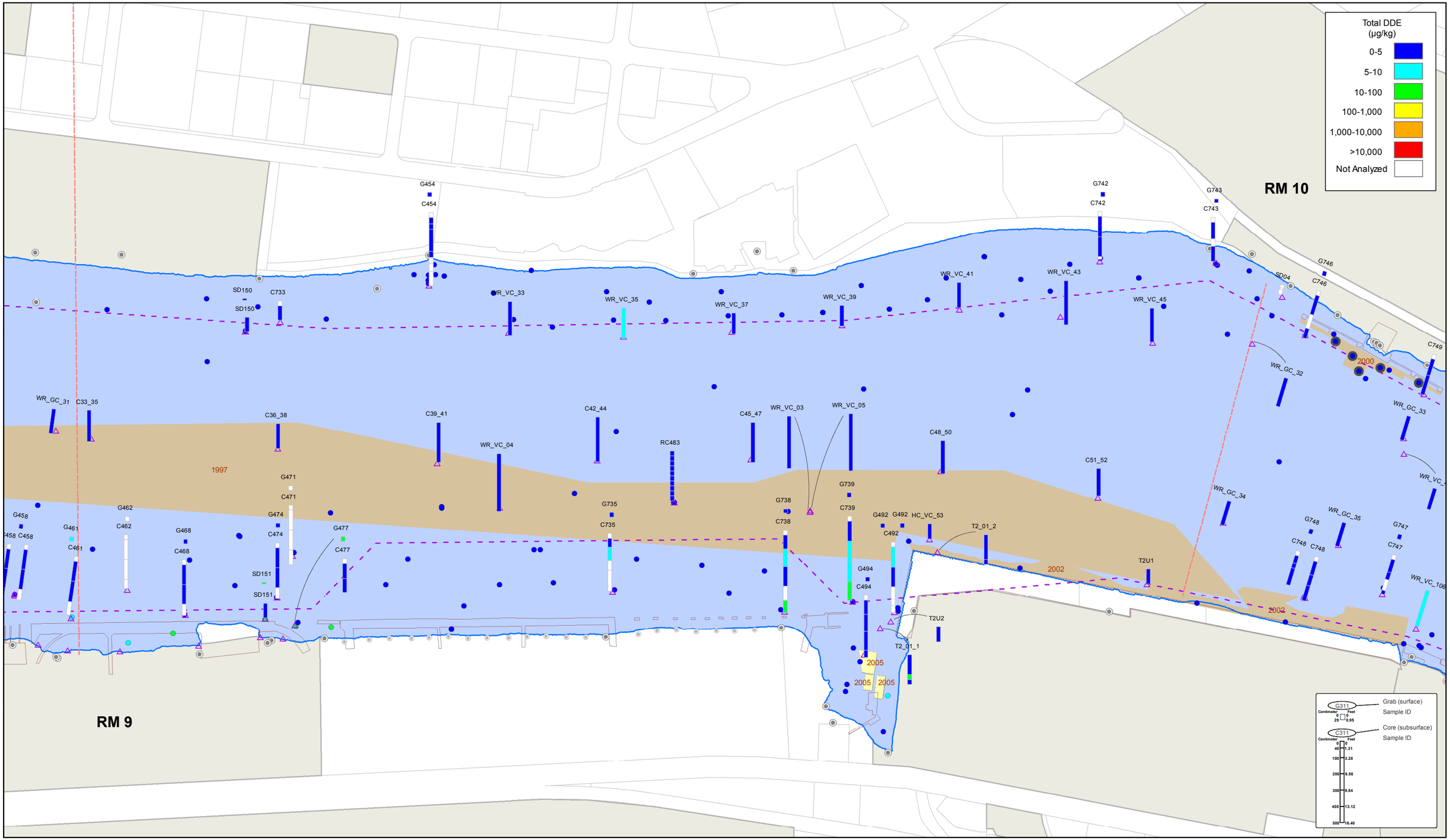
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

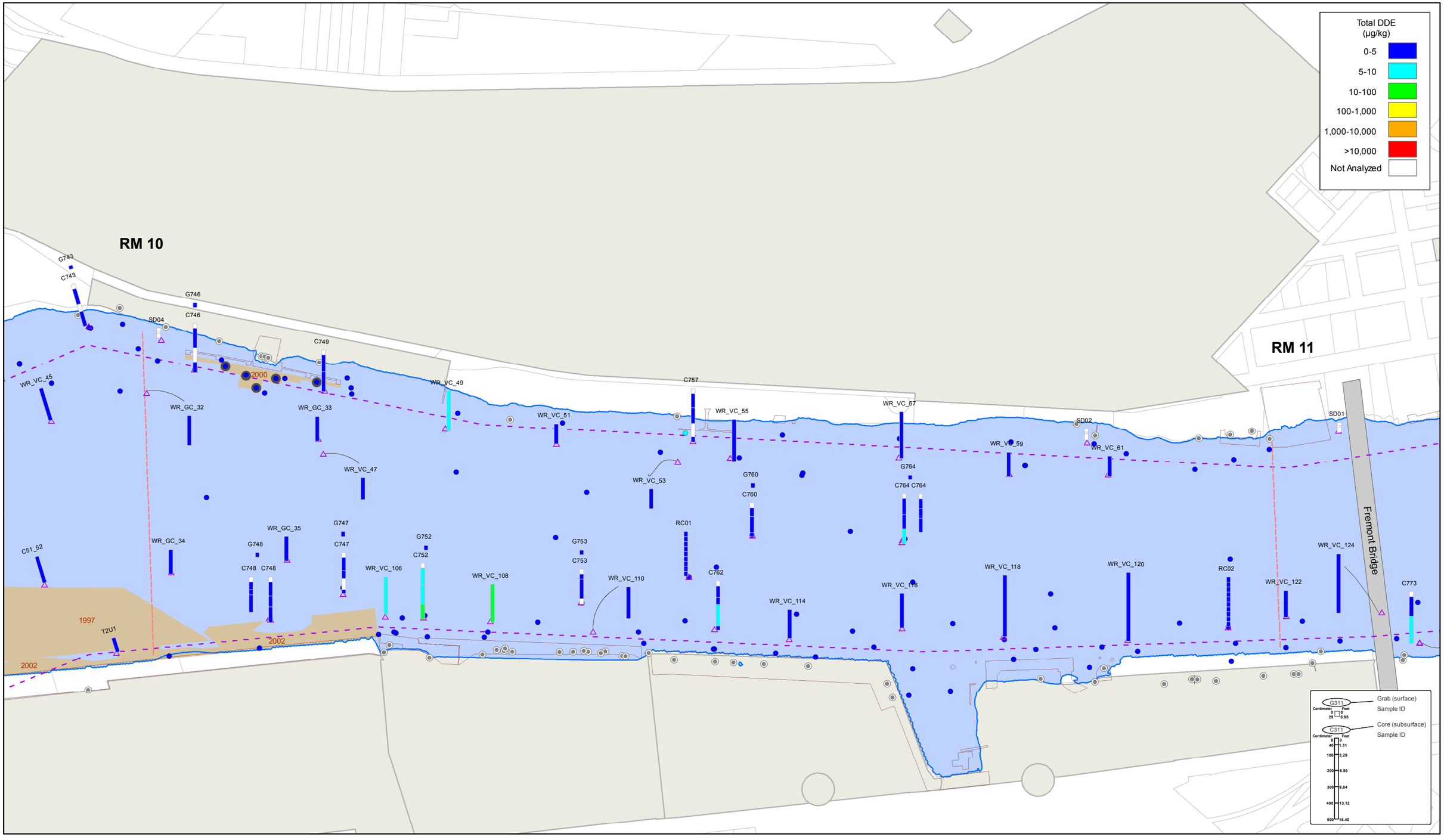
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 09 to 10



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

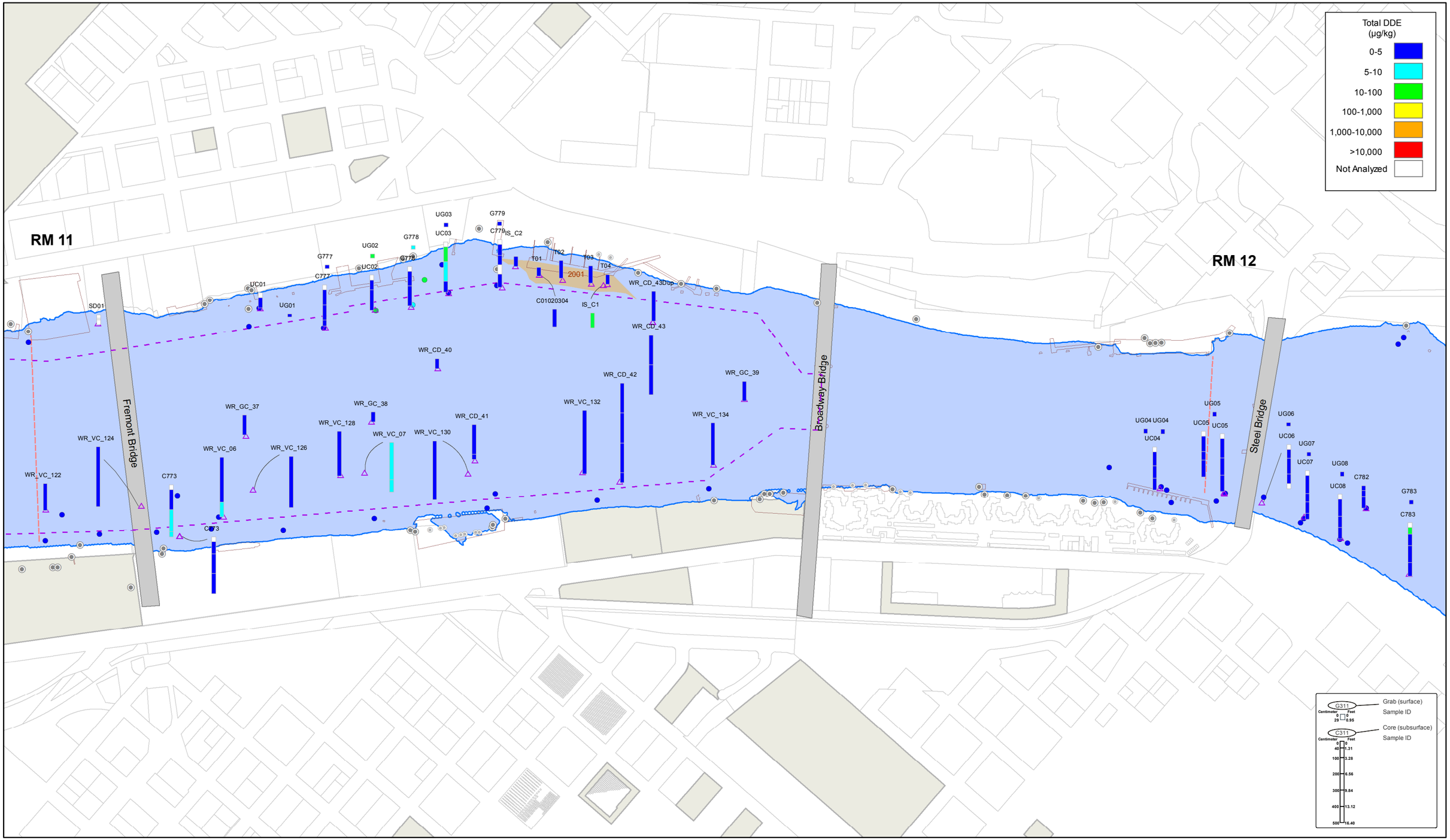
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

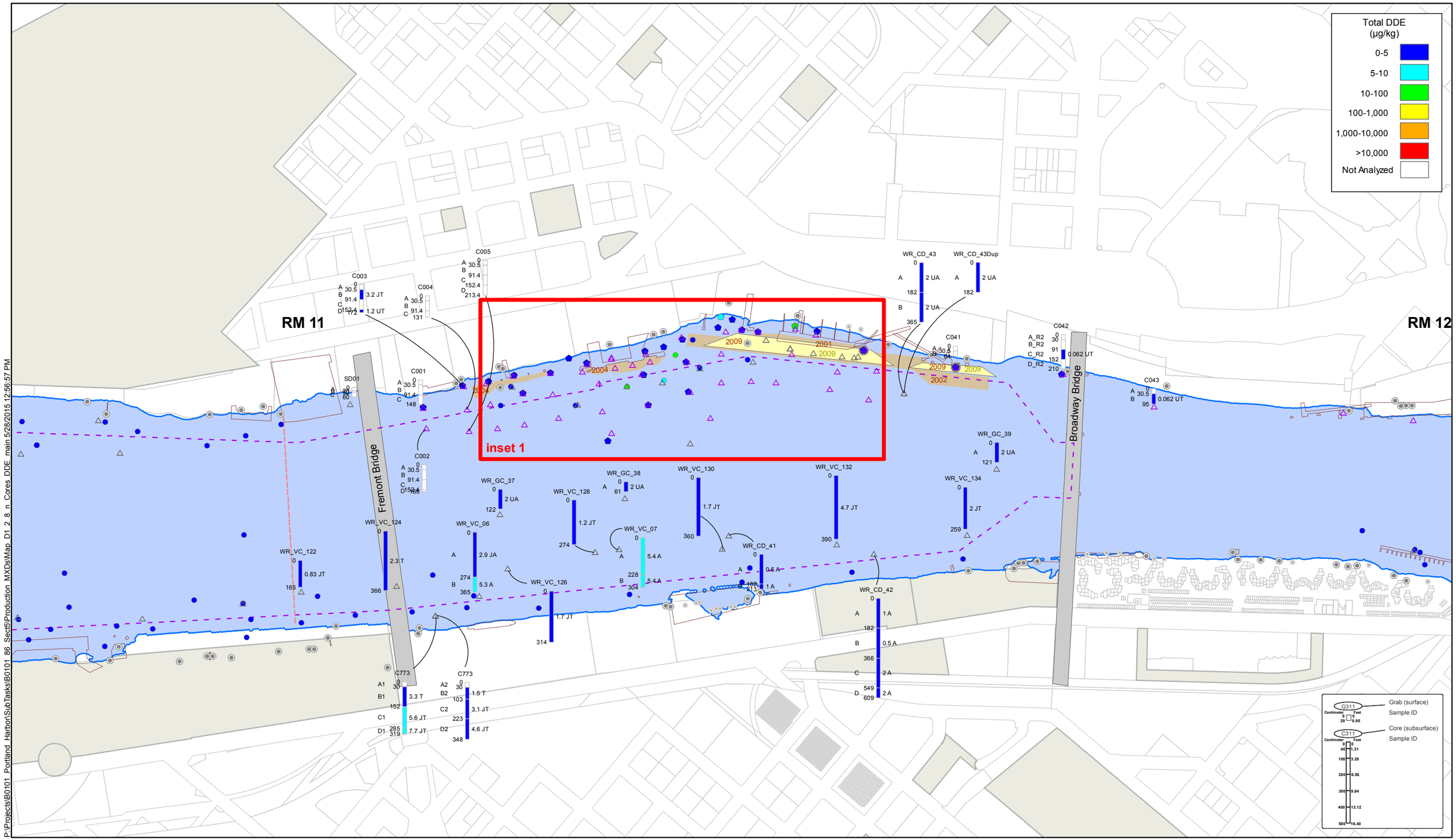
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)
River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)

River Mile 11.0 - 11.8

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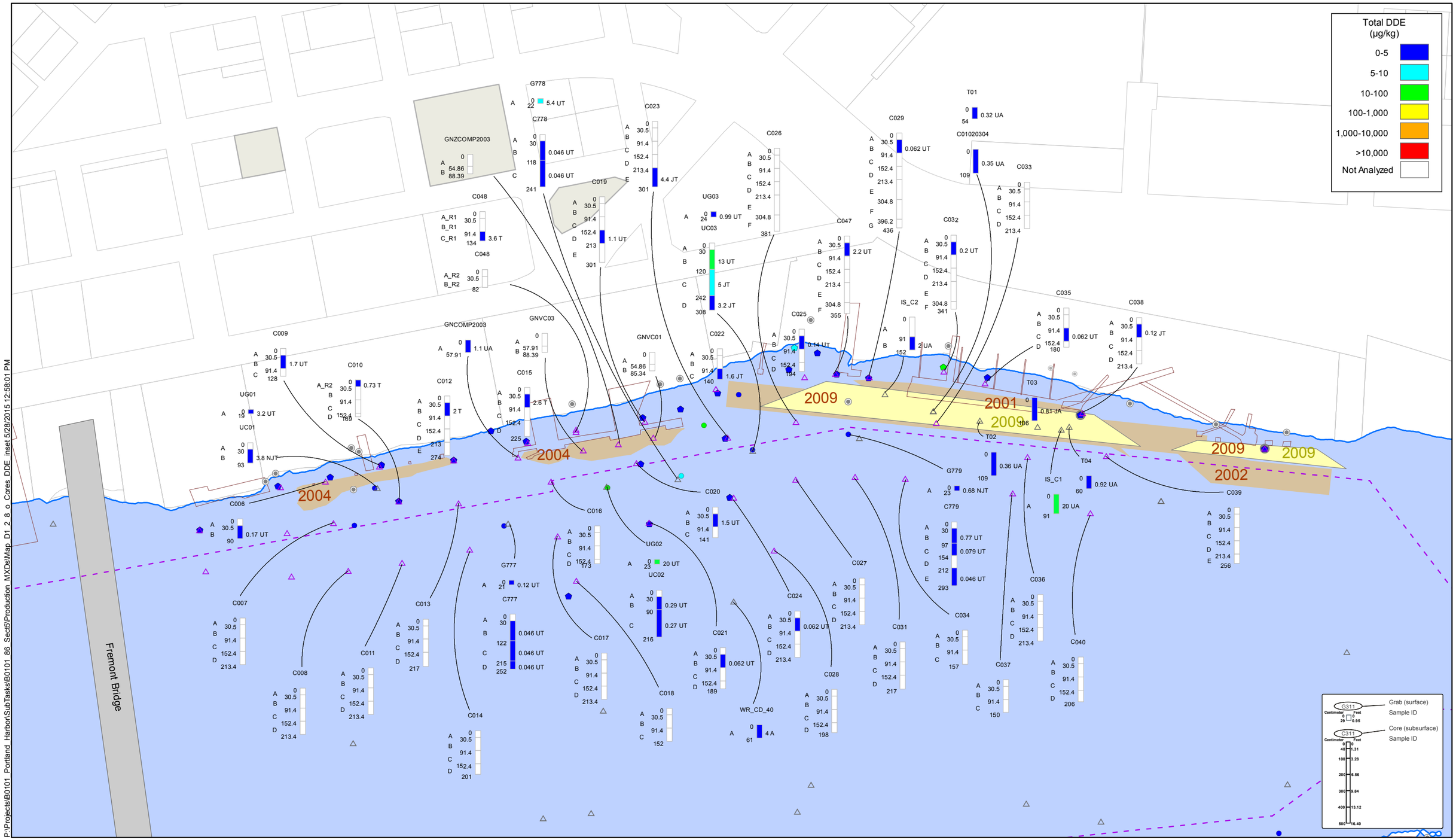

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-8o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDE (µg/kg)

River Mile 11.0 - 11.8 - Inset 1

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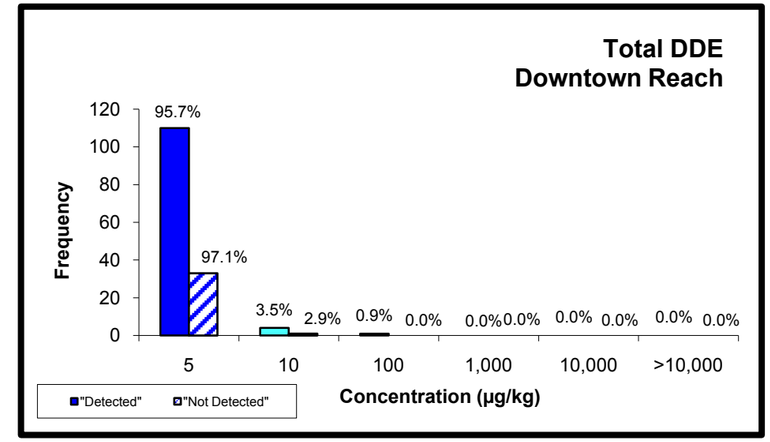

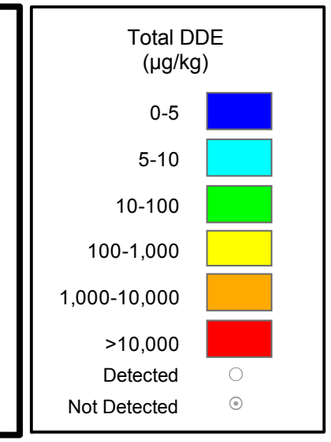

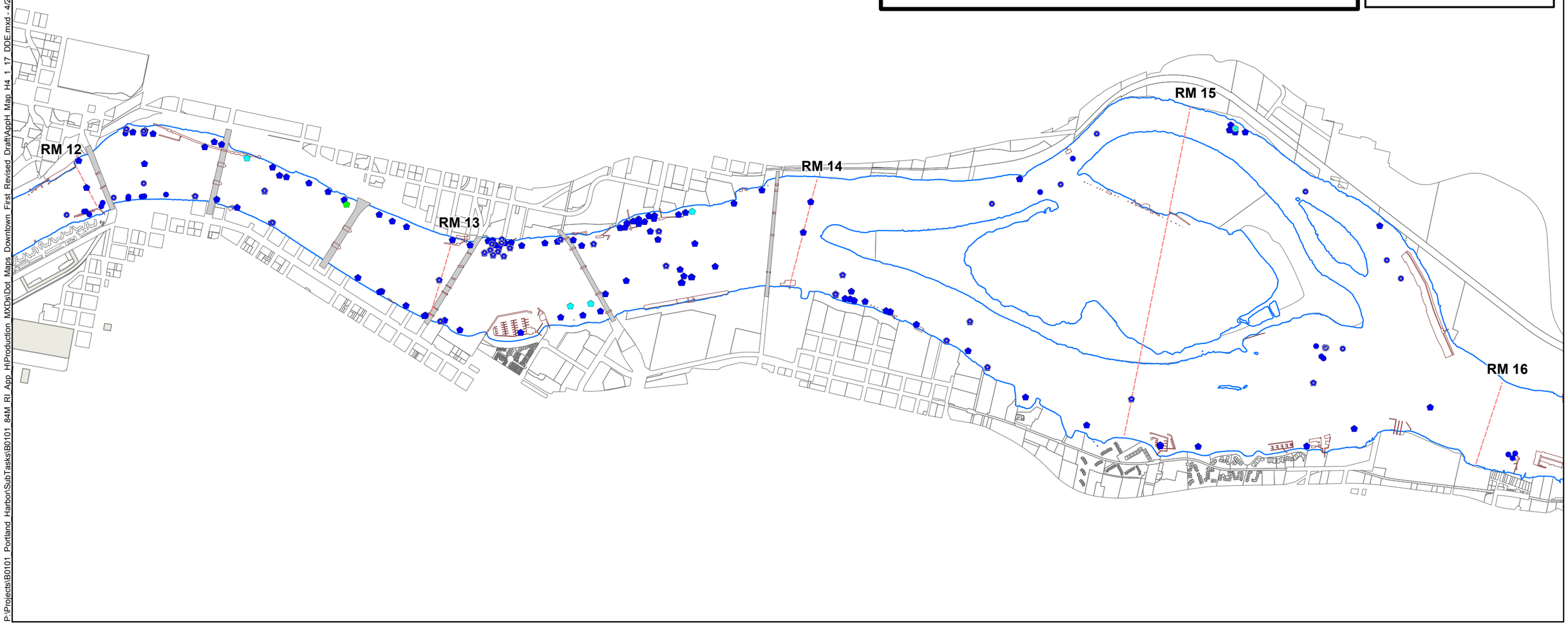

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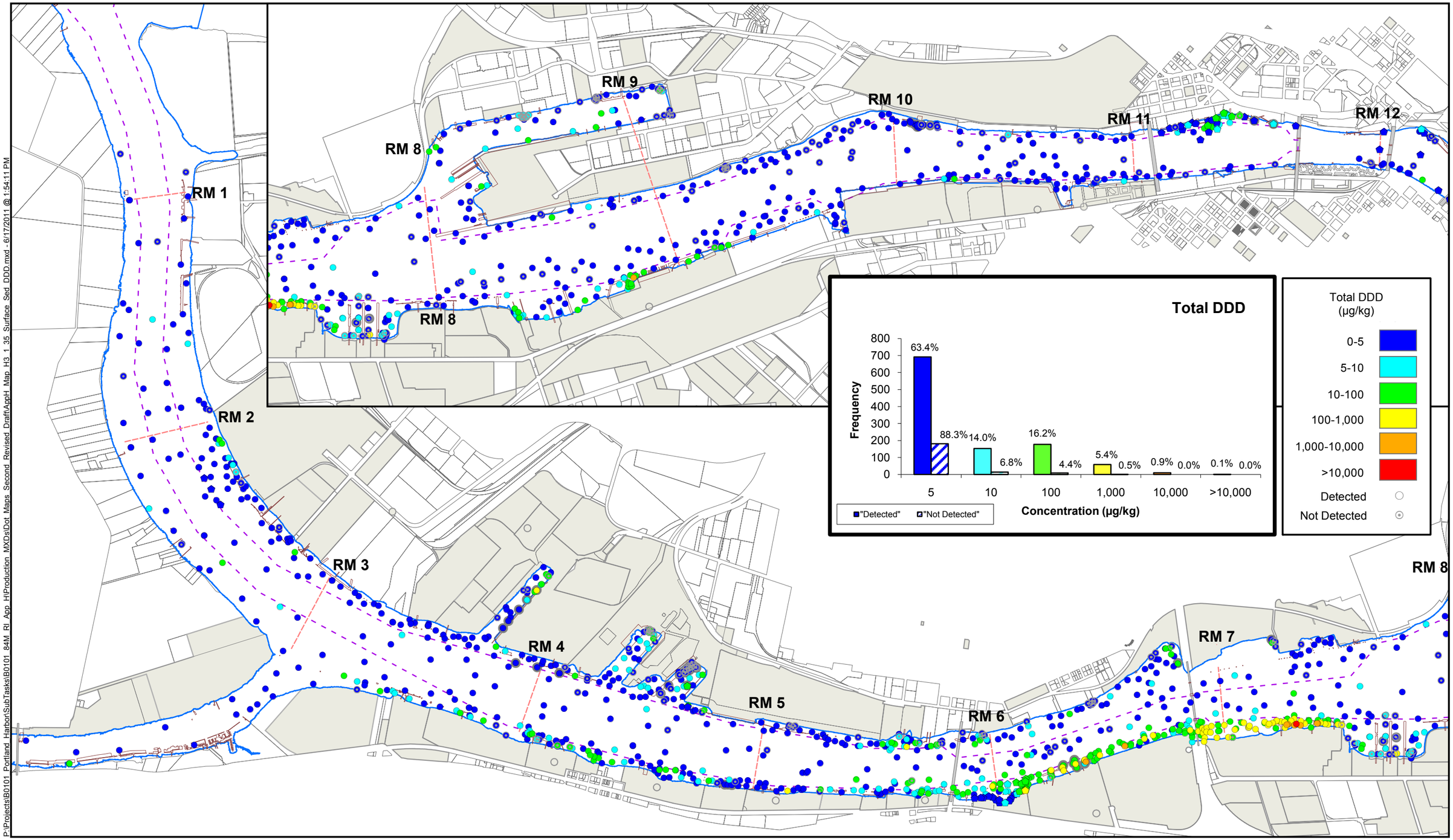
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-9
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total DDE (µg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

N

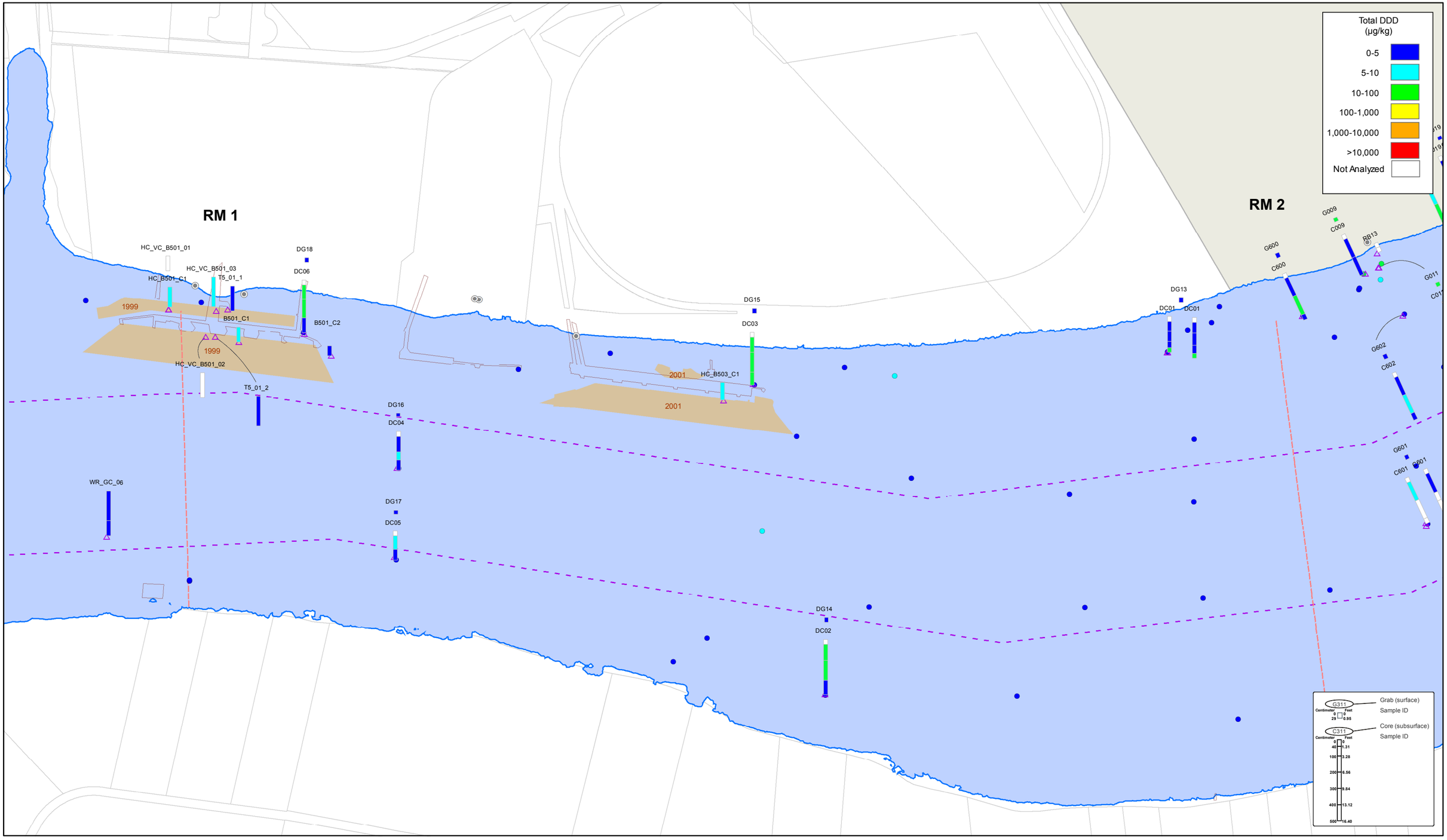
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-10
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total DDD (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Main.mxd) - 3/9/2009 -- 1:42:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

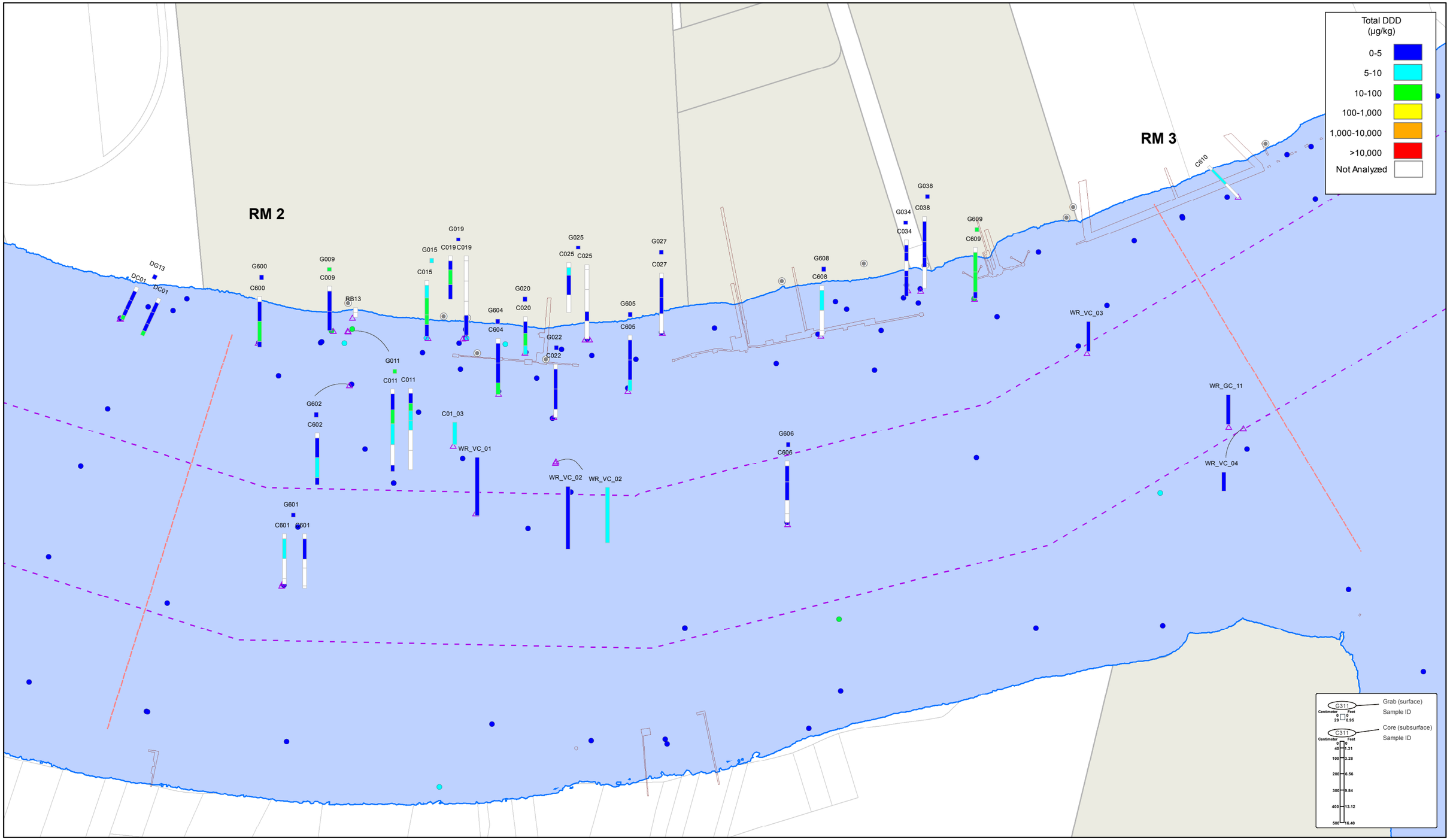
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Main.mxd) - 3/9/2009 -- 1:42:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

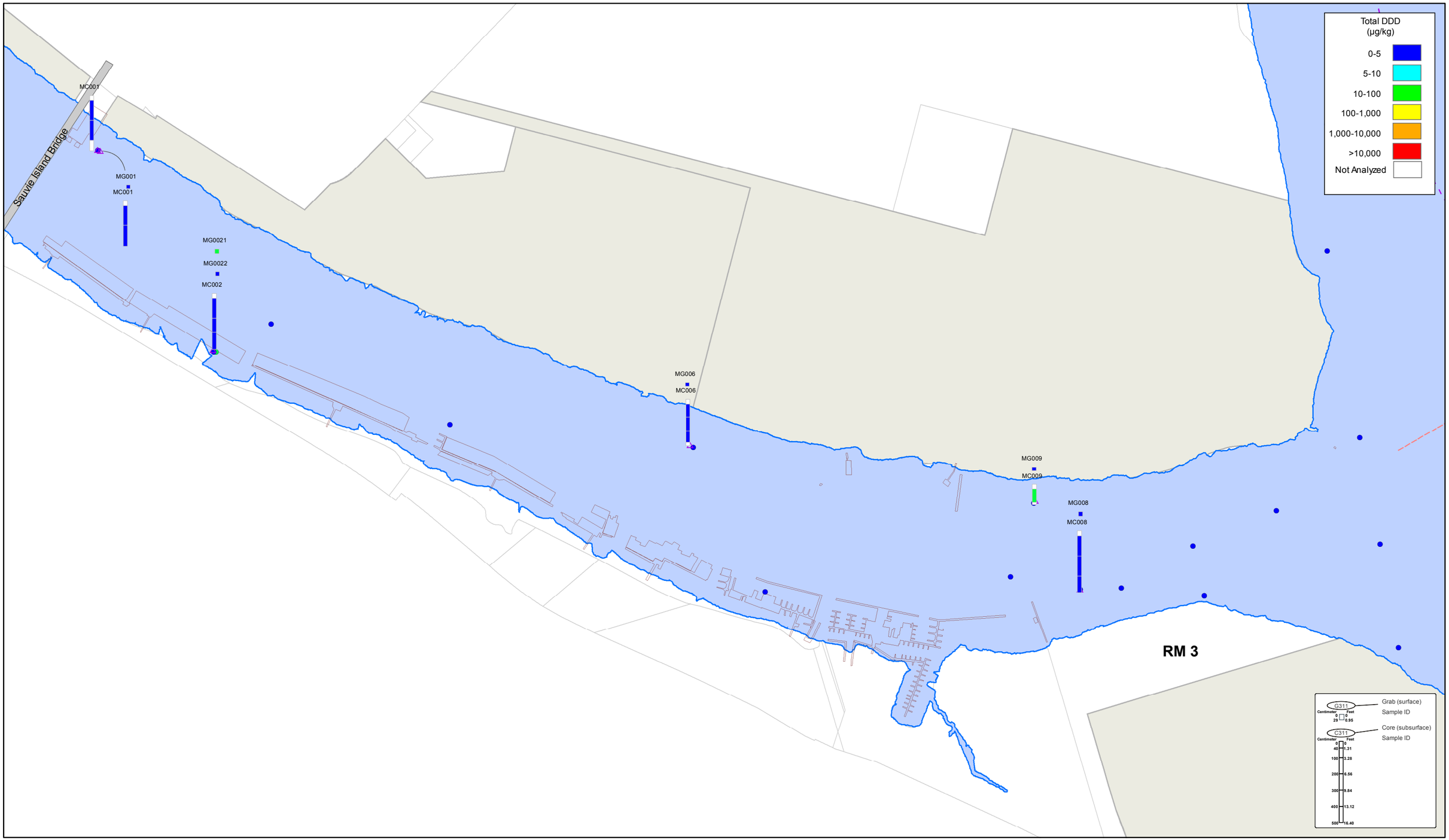
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Main.mxd) - 3/9/2009 -- 1:42:08 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

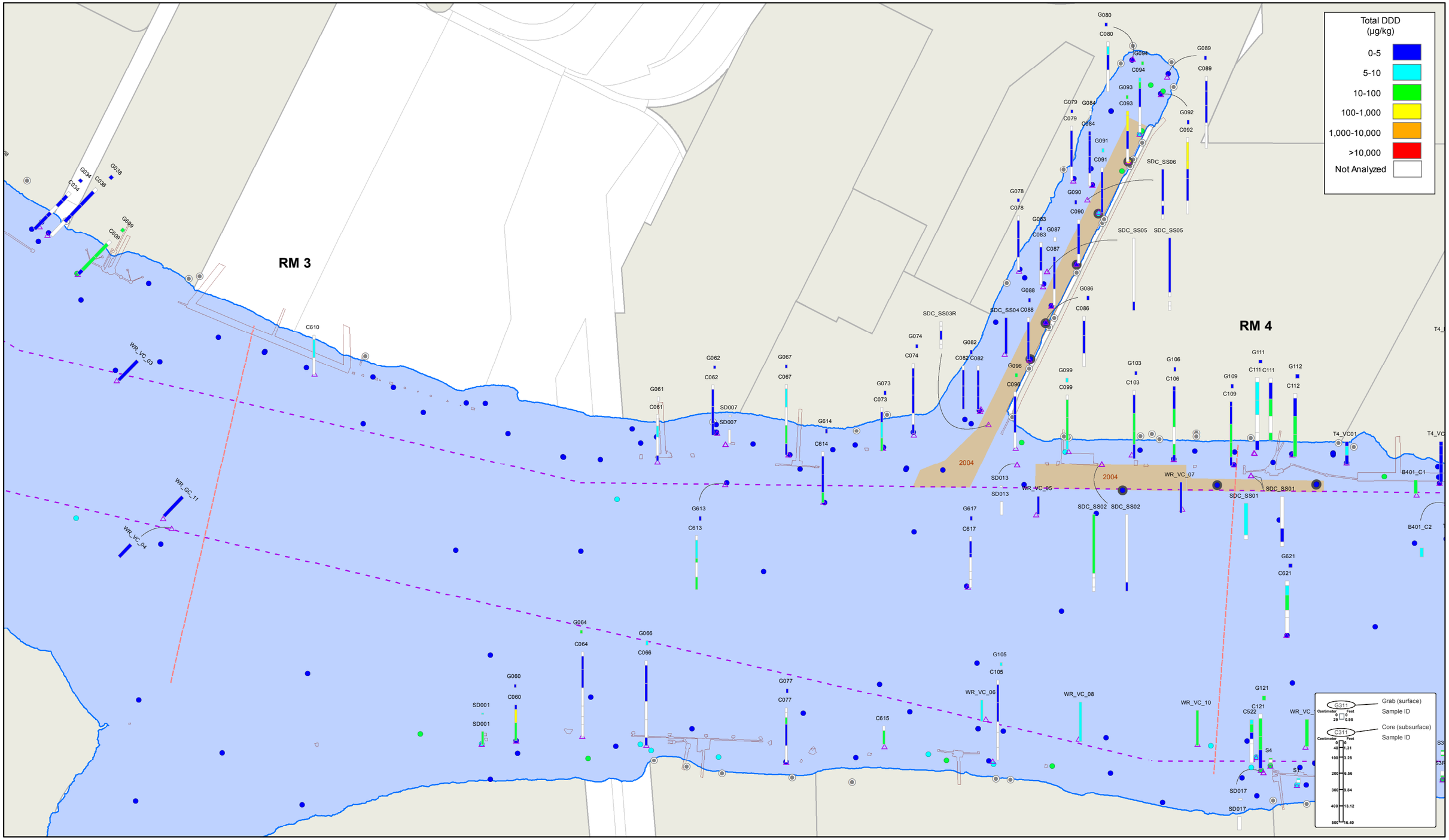
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

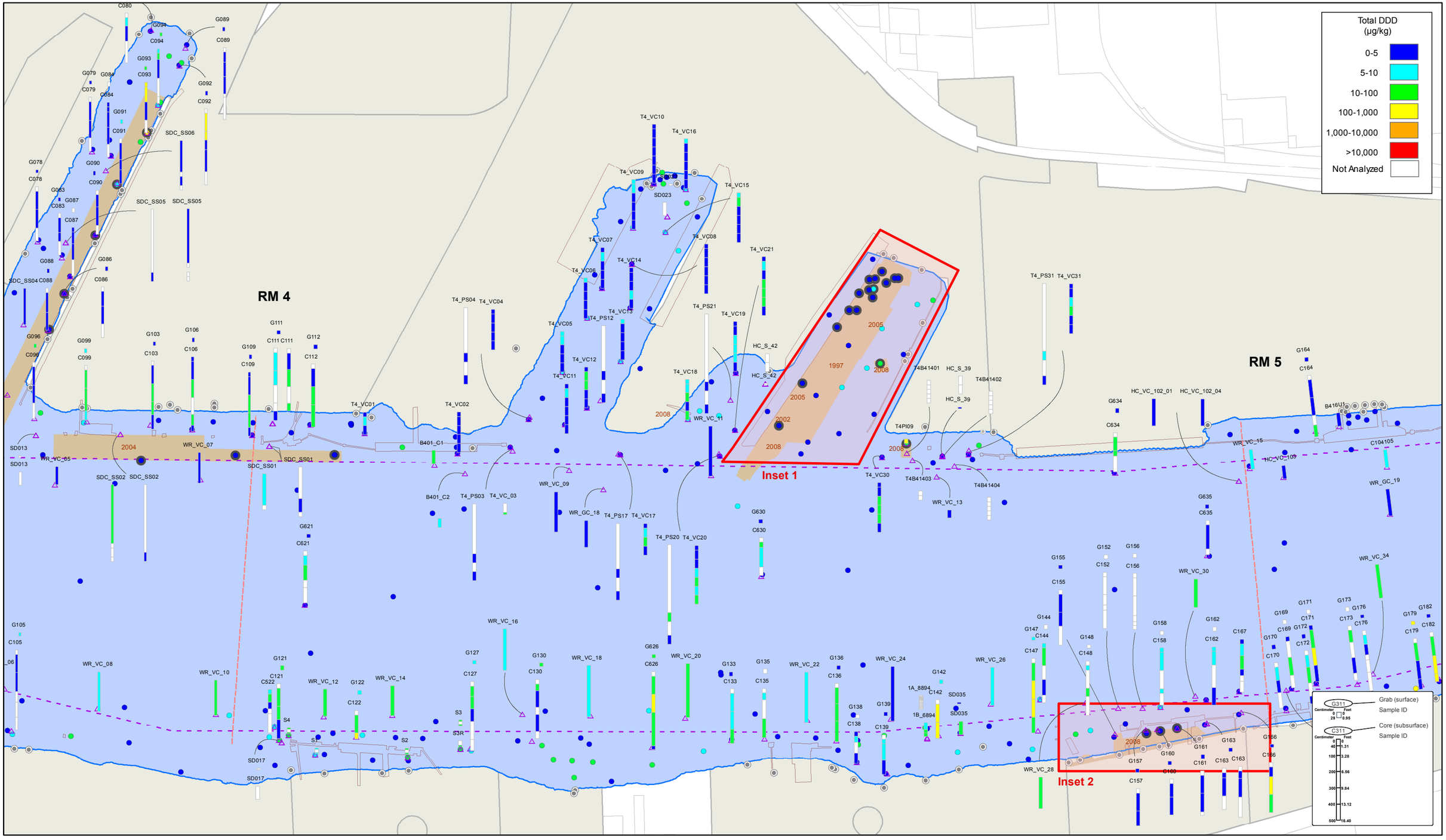
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

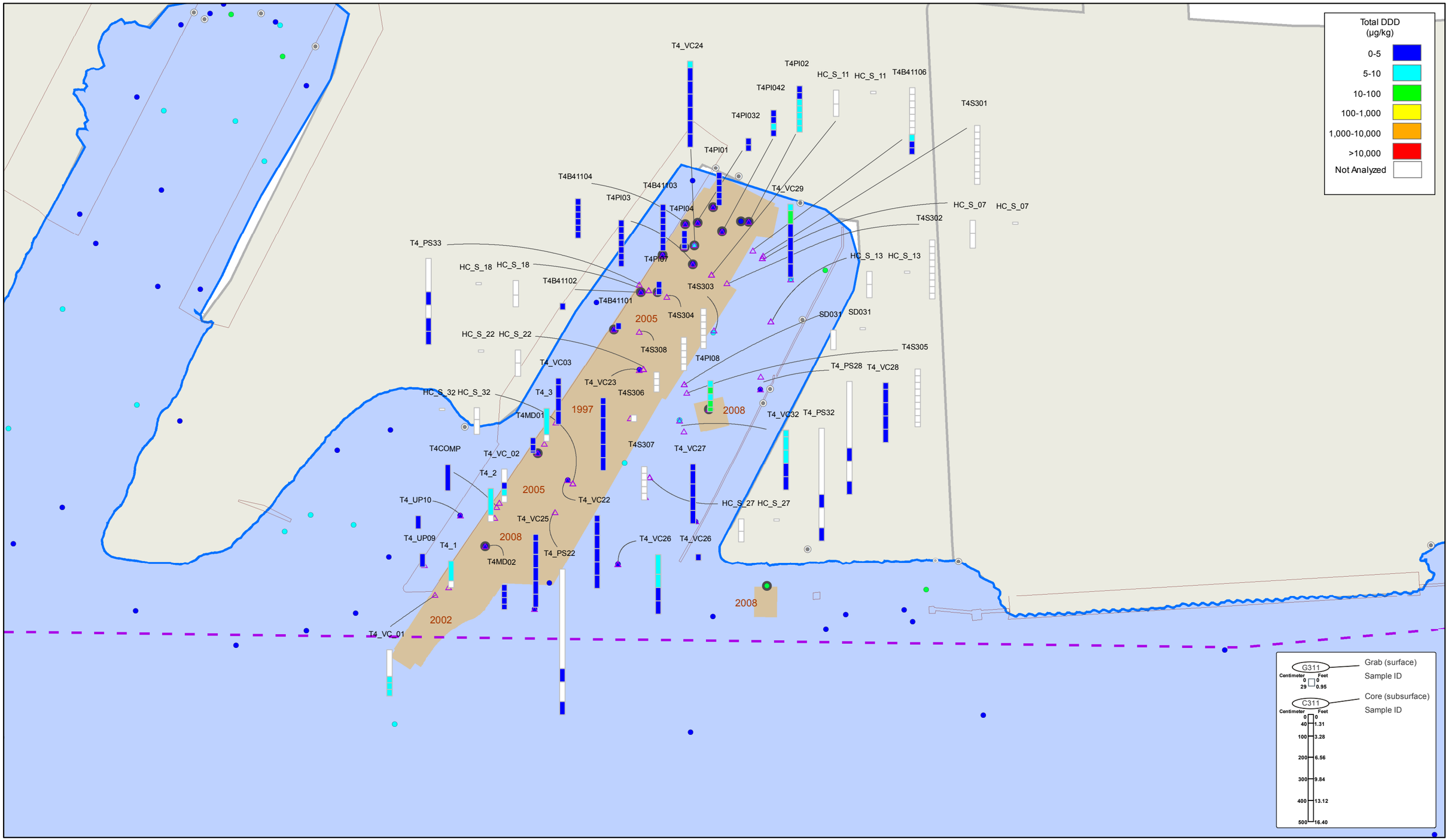
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 04 to 05 - Slips

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Insets.mxd) - 3/9/2009 -- 2:21:55 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 135 270 540 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

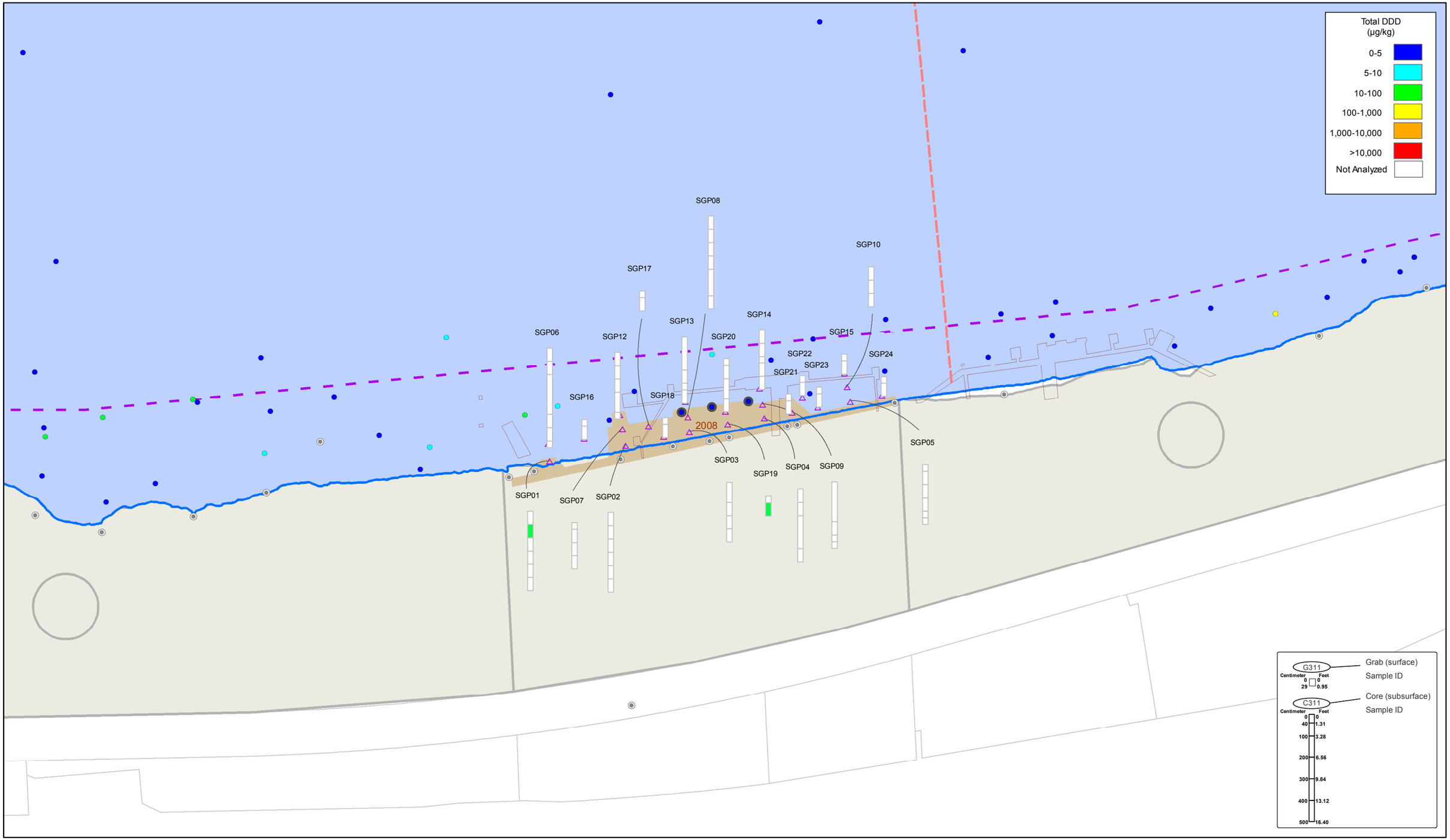
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 04 to 05 - Slips - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Insets.mxd) - 3/9/2009 -- 2:21:55 PM



N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 135 270 540 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

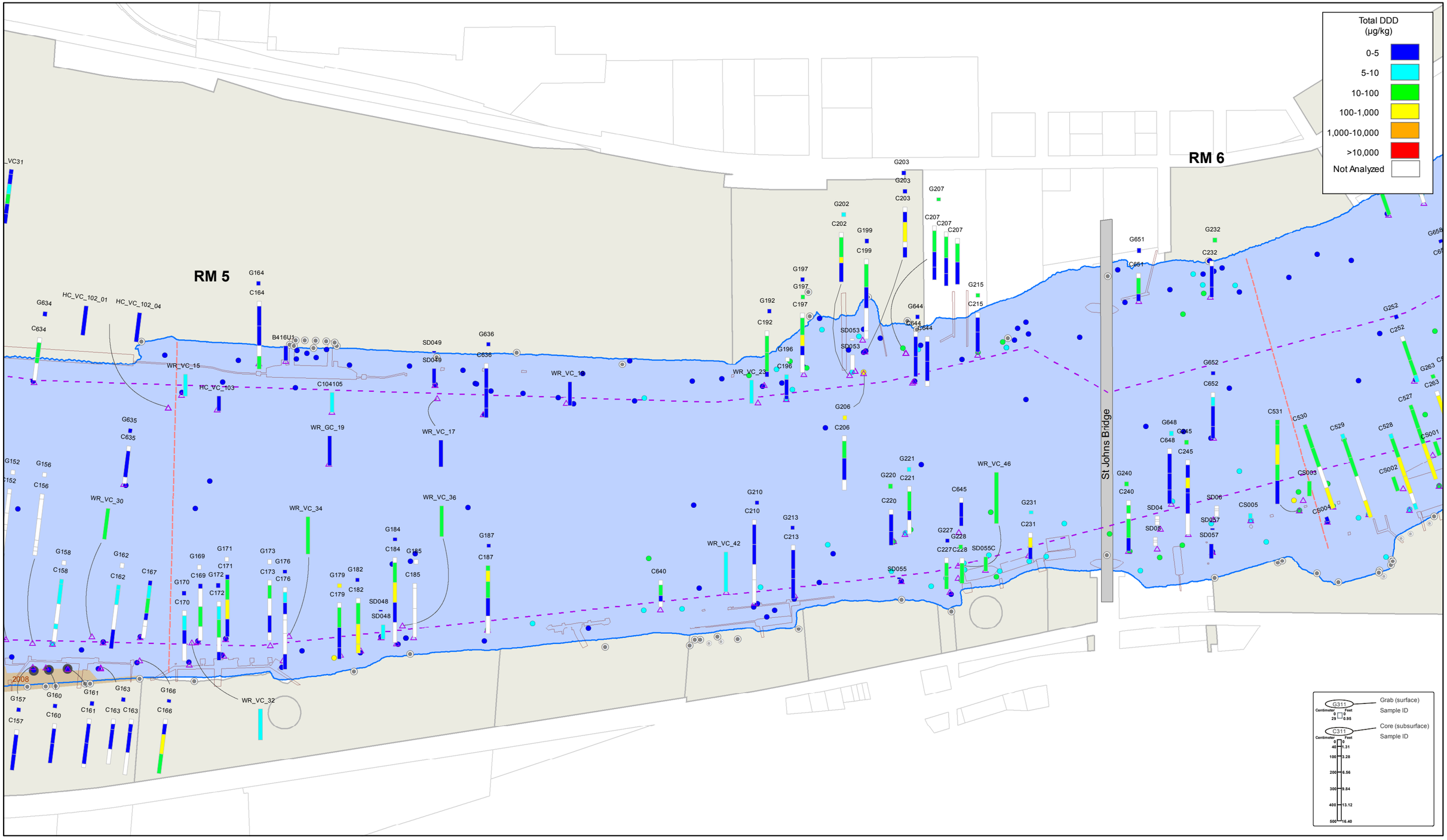
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

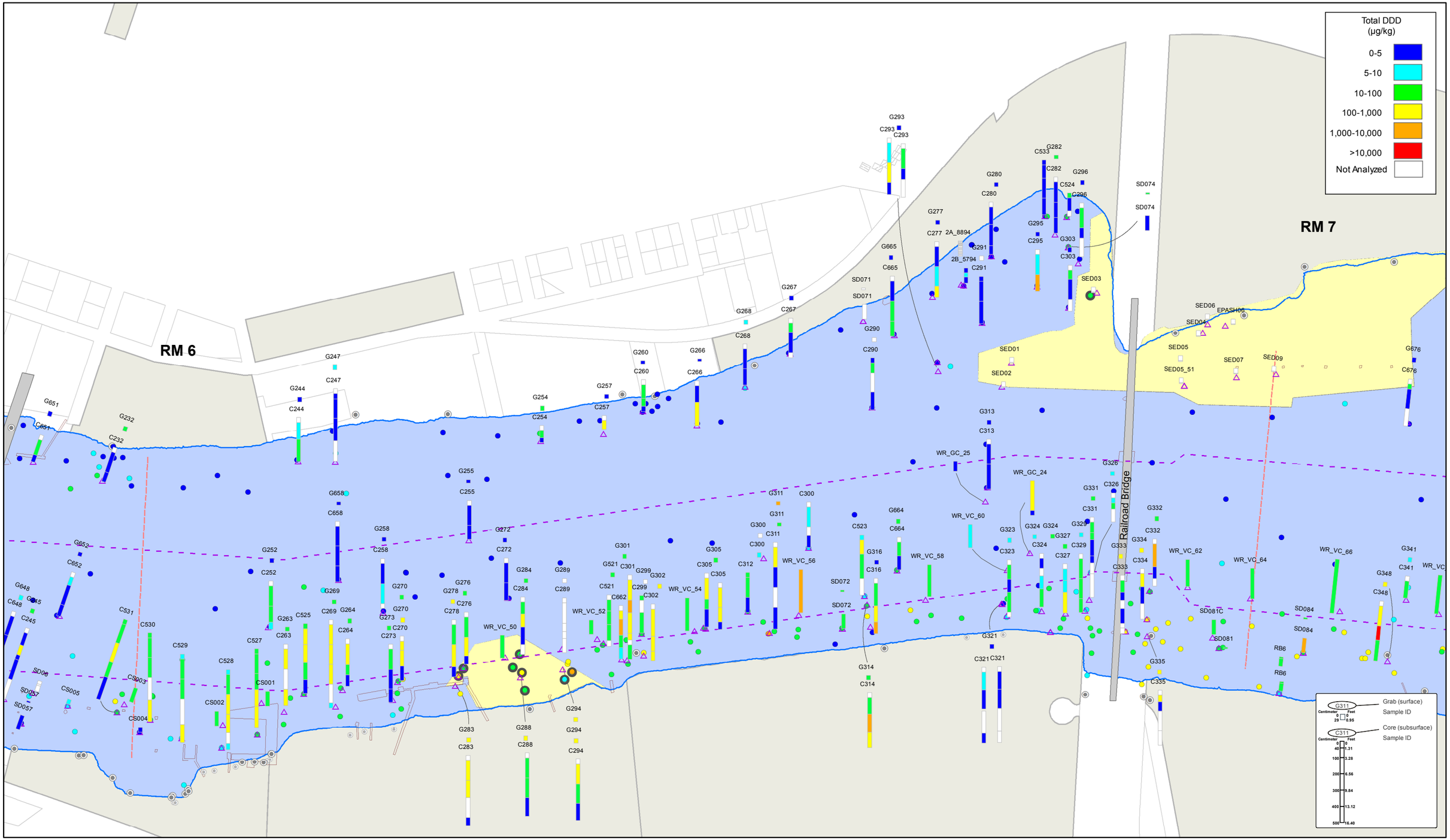
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

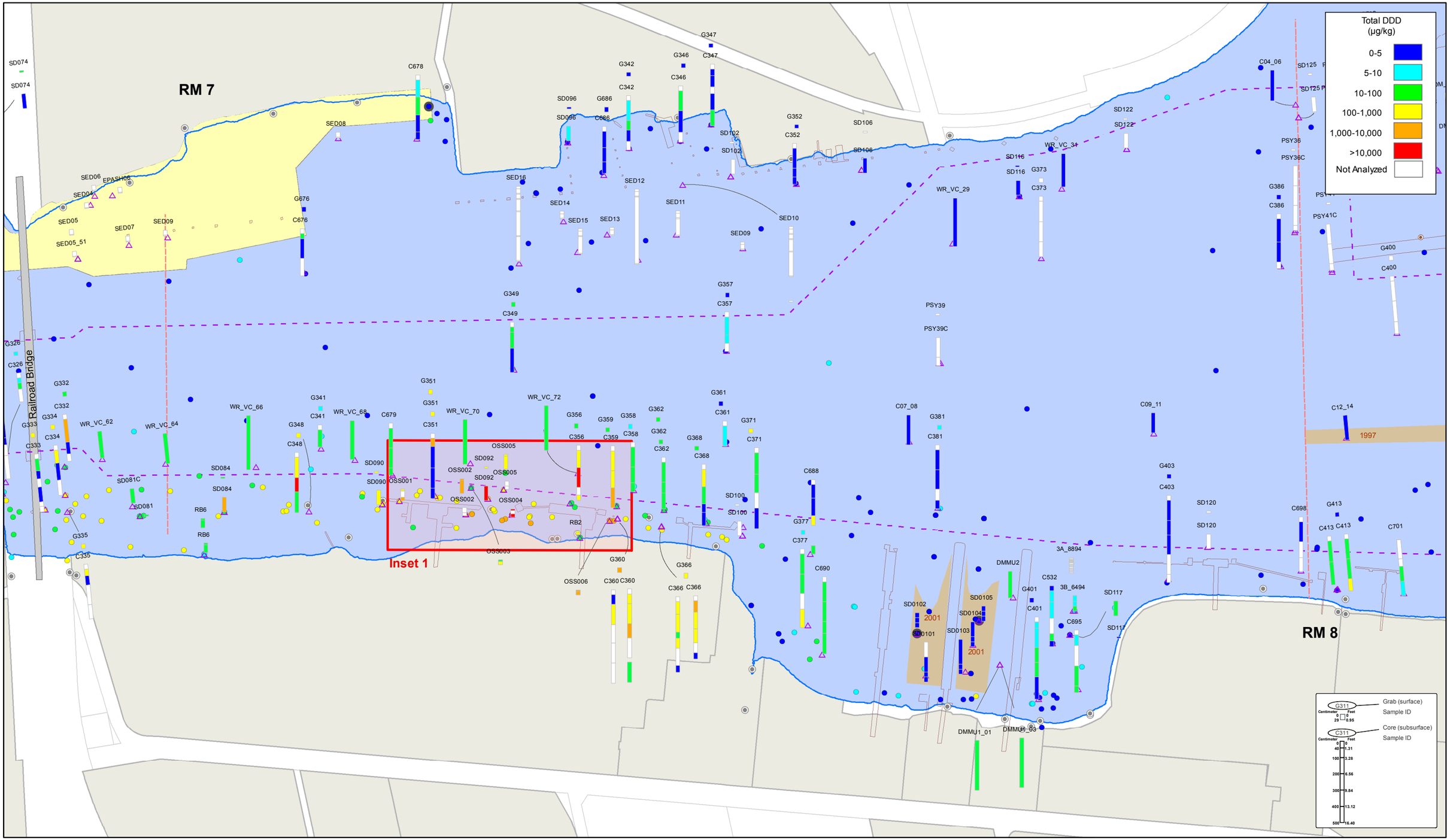
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 06 to 07



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

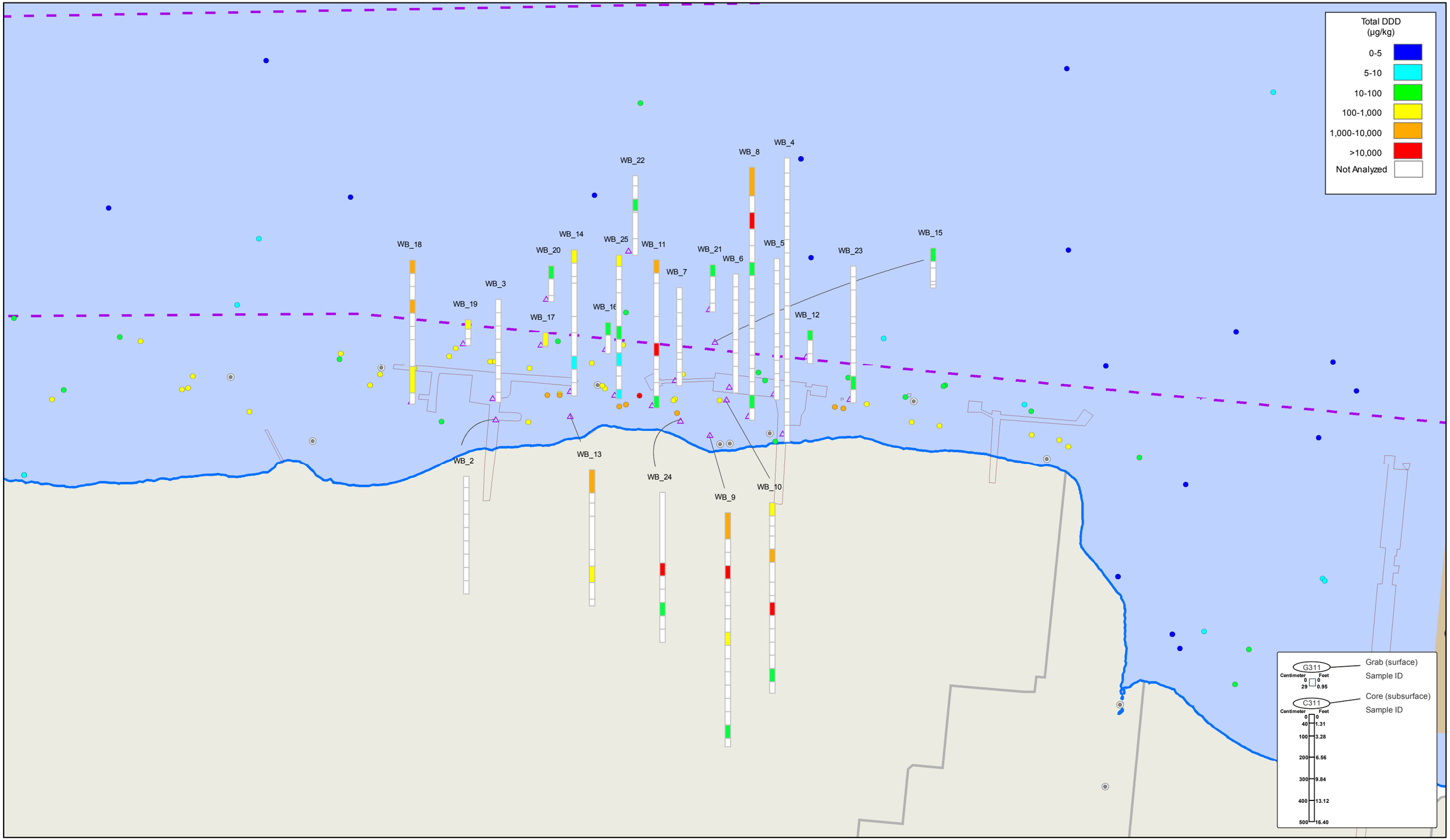
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 07 to 08



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 135 270 540 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

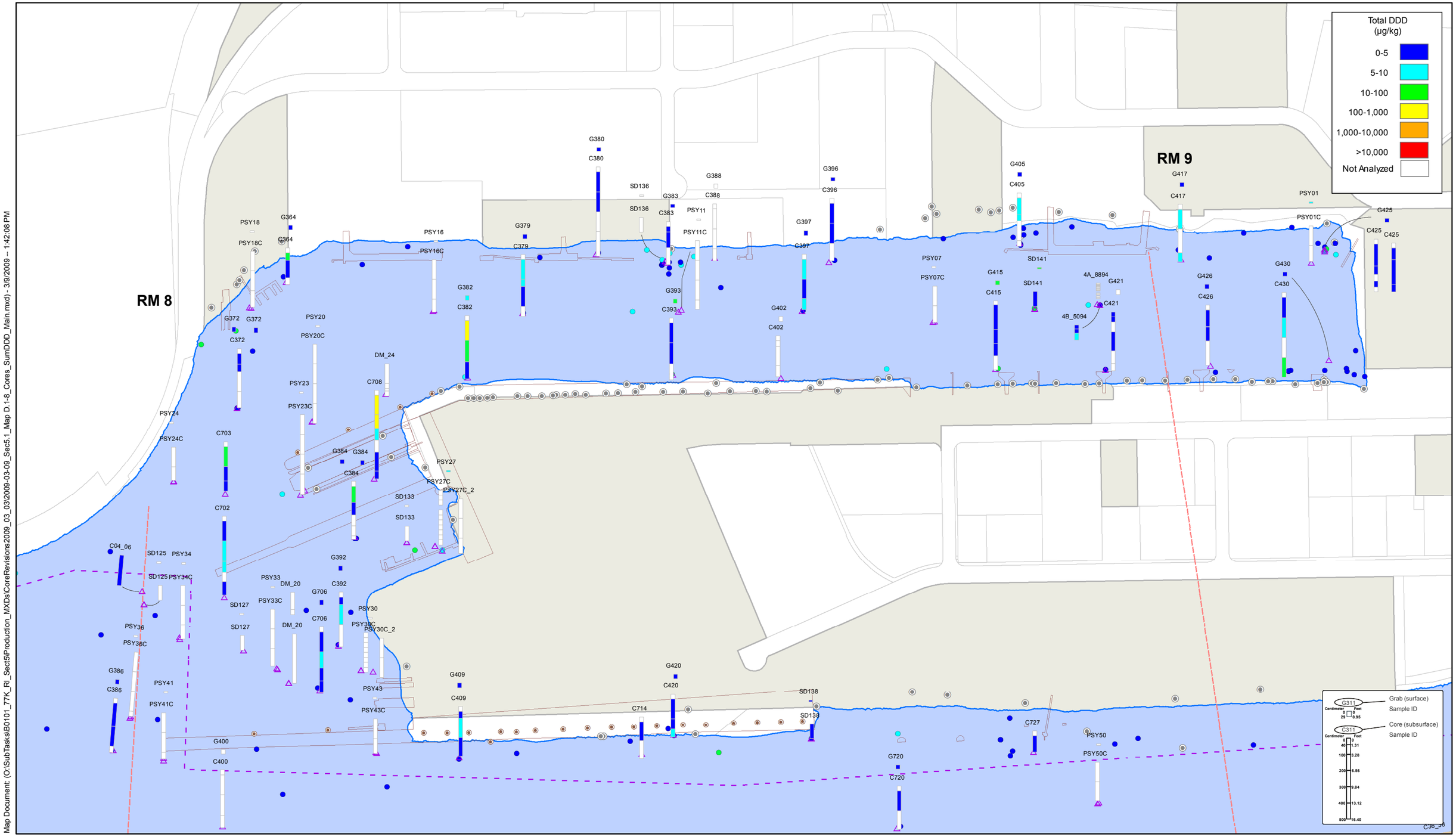
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11h1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 07 to 08 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

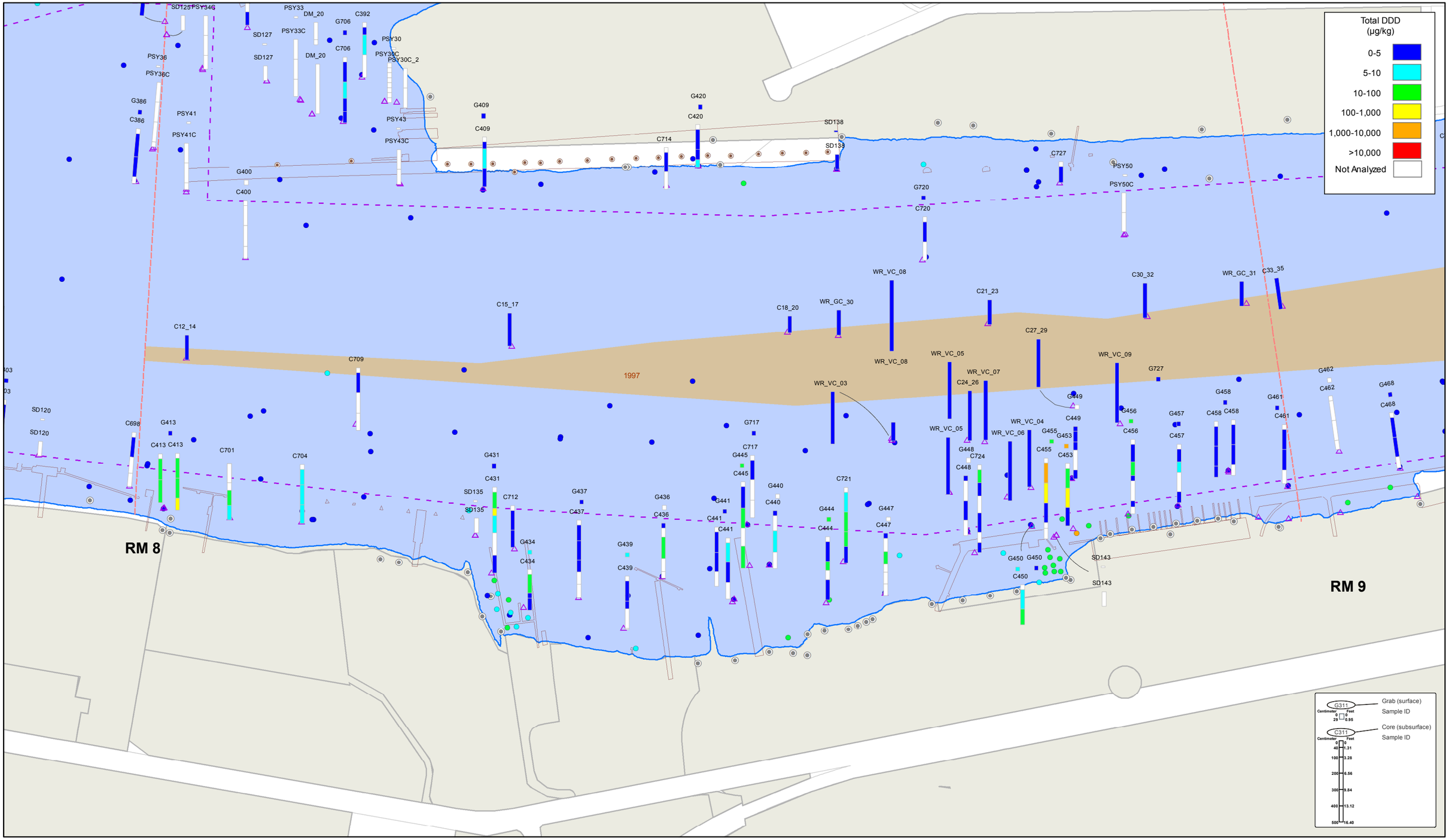
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

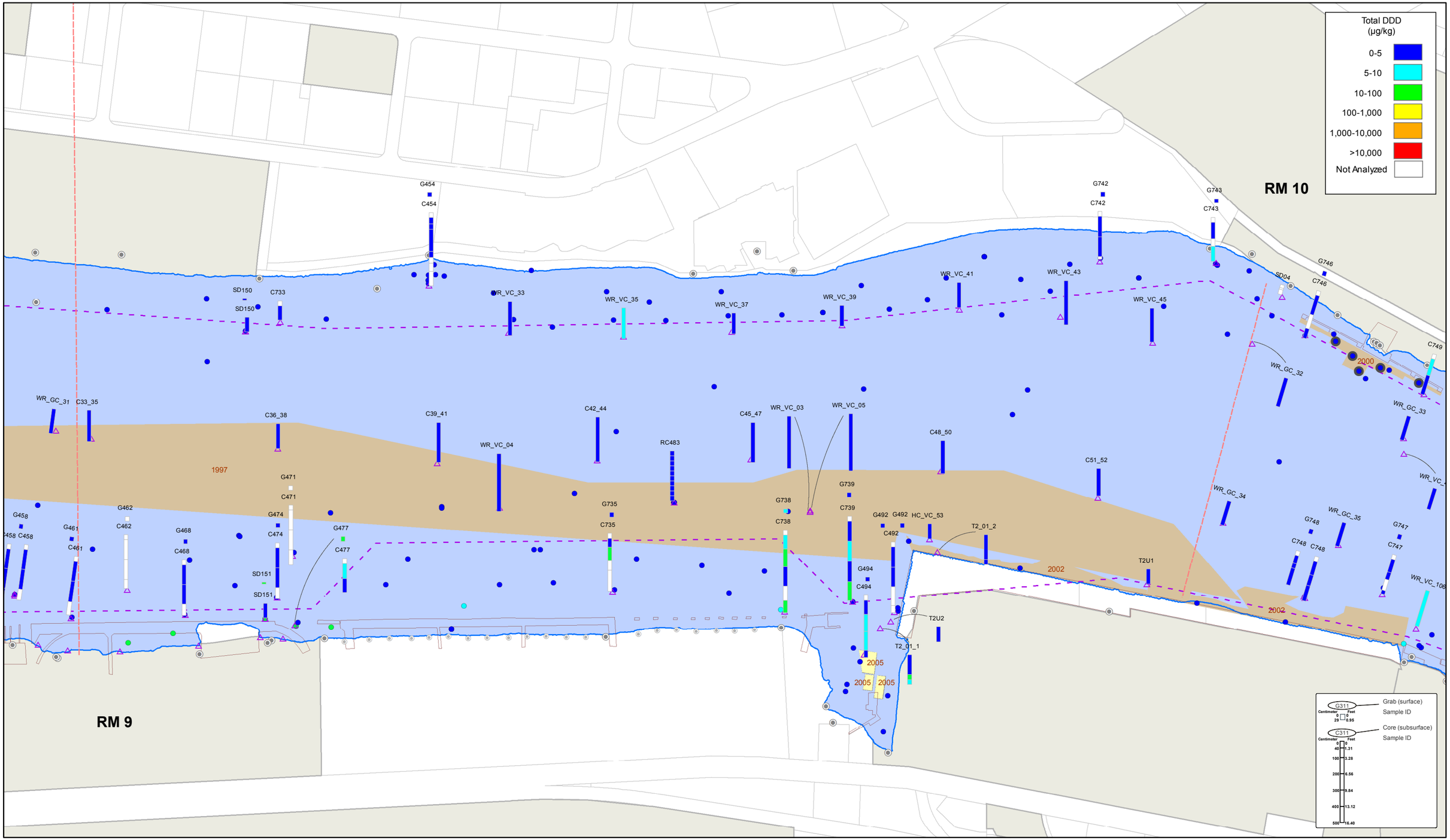
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 08 to 09 - Swan Is. West



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

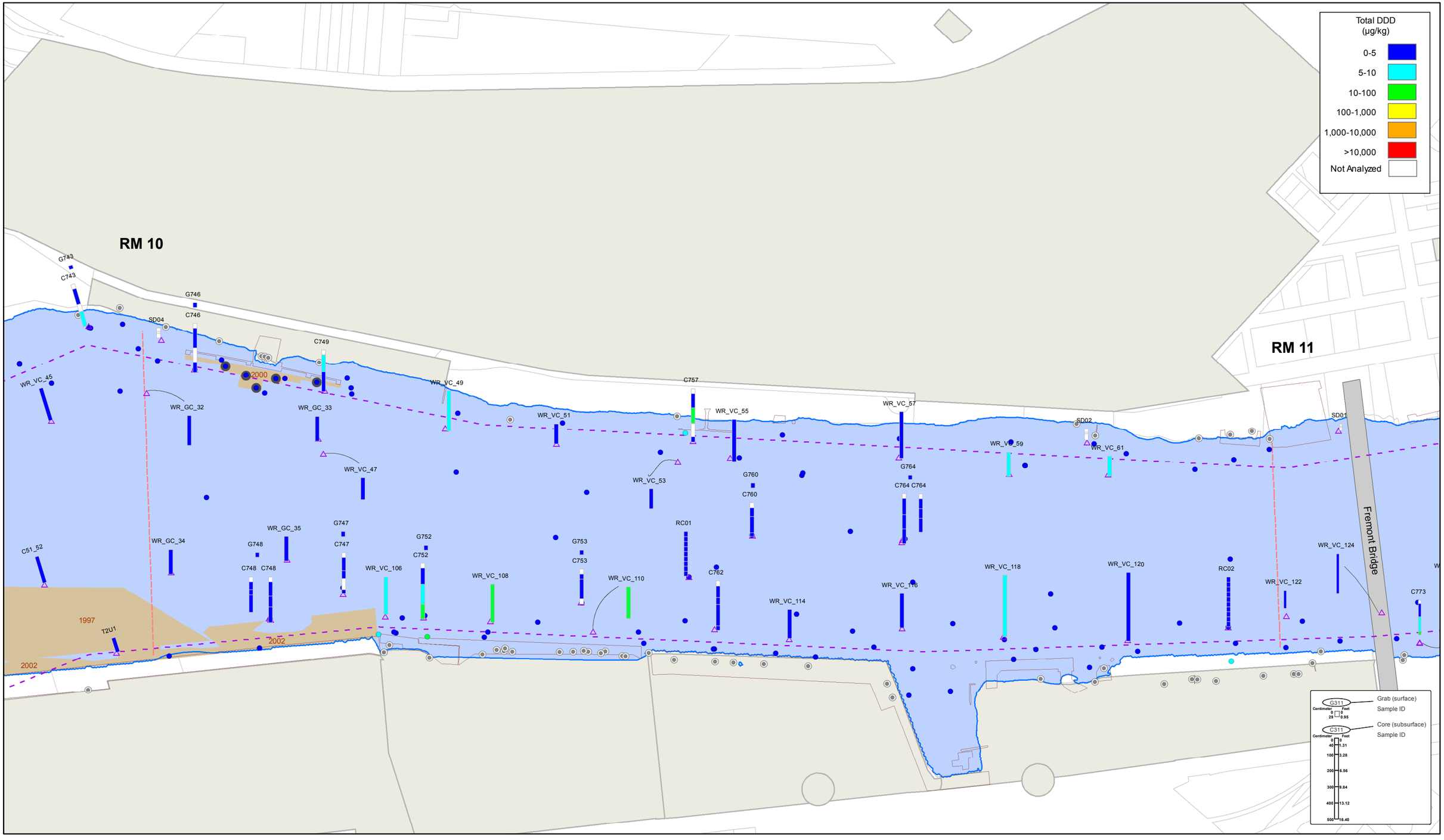
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Main.mxd) - 3/9/2009 -- 1:42:08 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

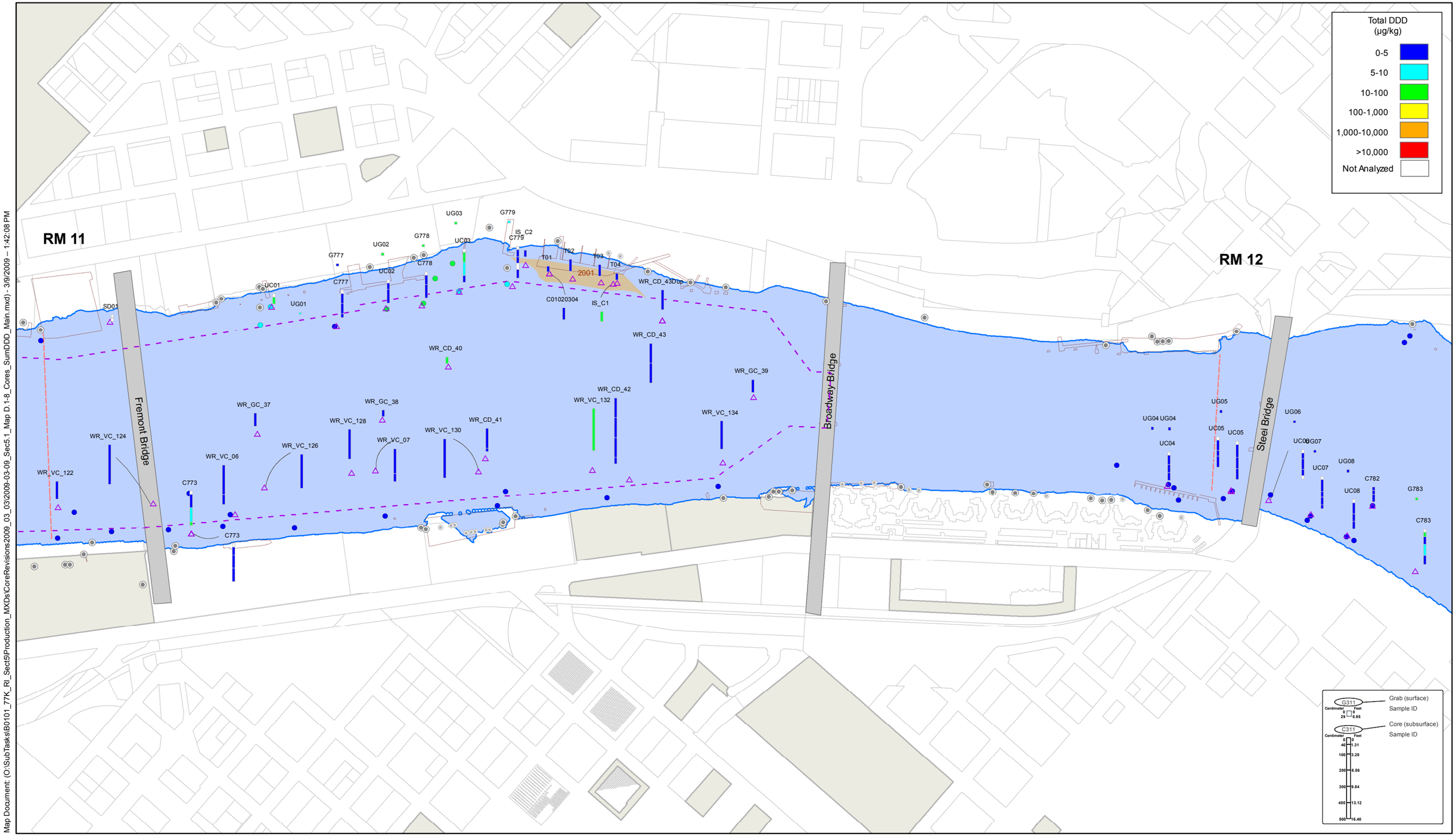
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 10 to 11



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

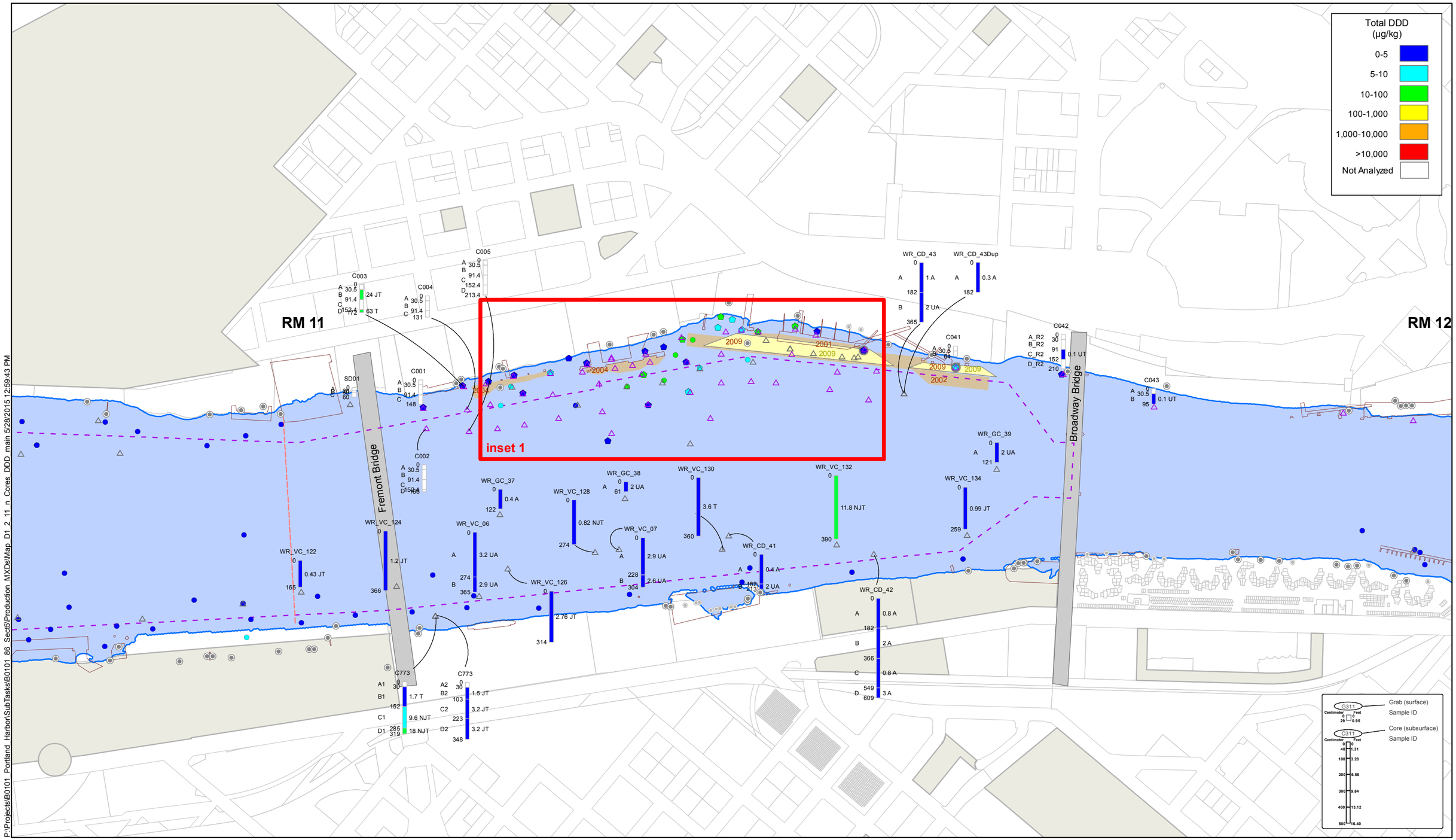
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)
River Mile 11 to 12

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-8_Cores_SumDDD_Main.mxd) - 3/9/2009 -- 1:42:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)

River Mile 11.0 - 11.8

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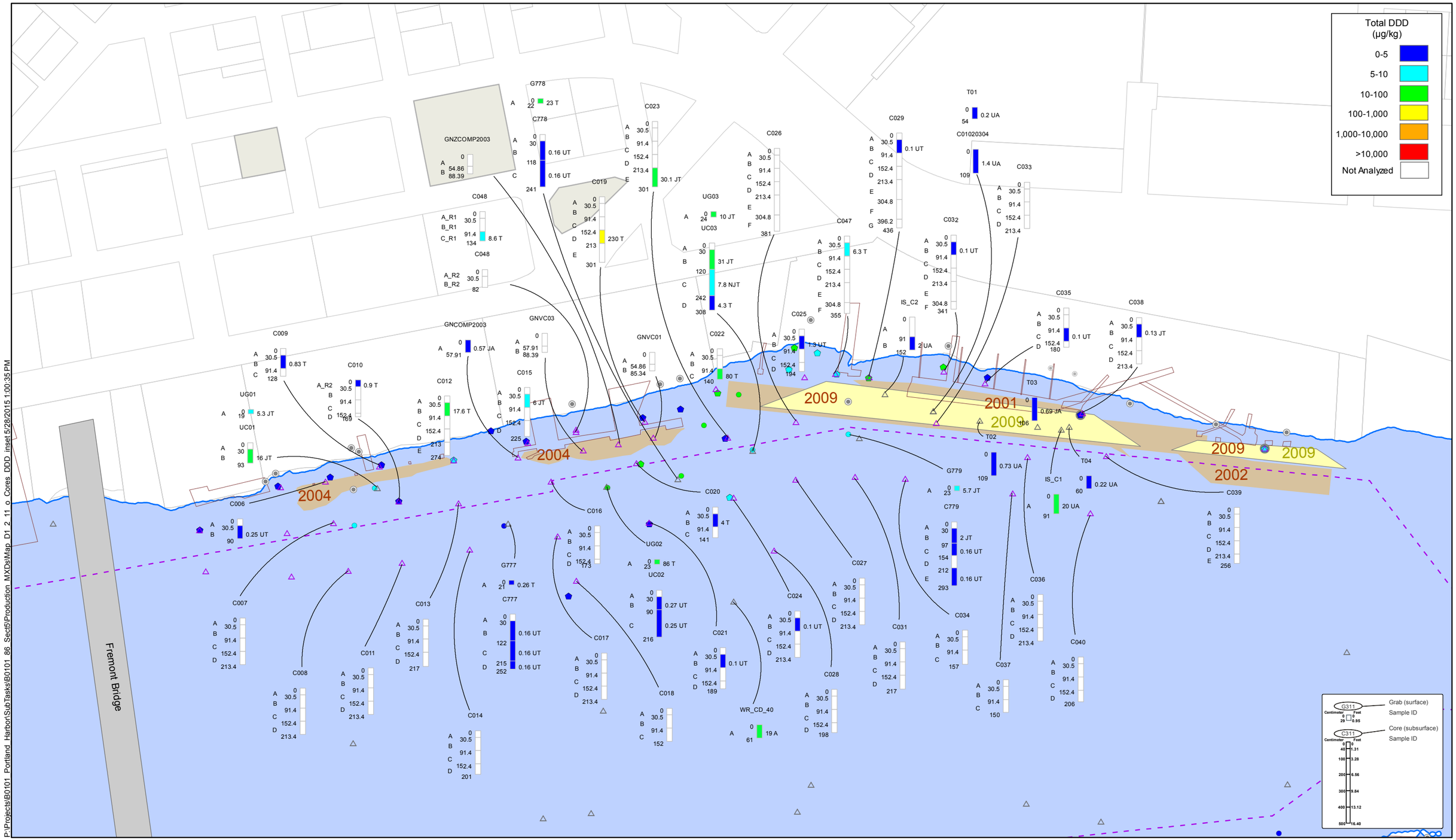

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-11o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total DDD (µg/kg)

River Mile 11.0 - 11.8 - Inset 1

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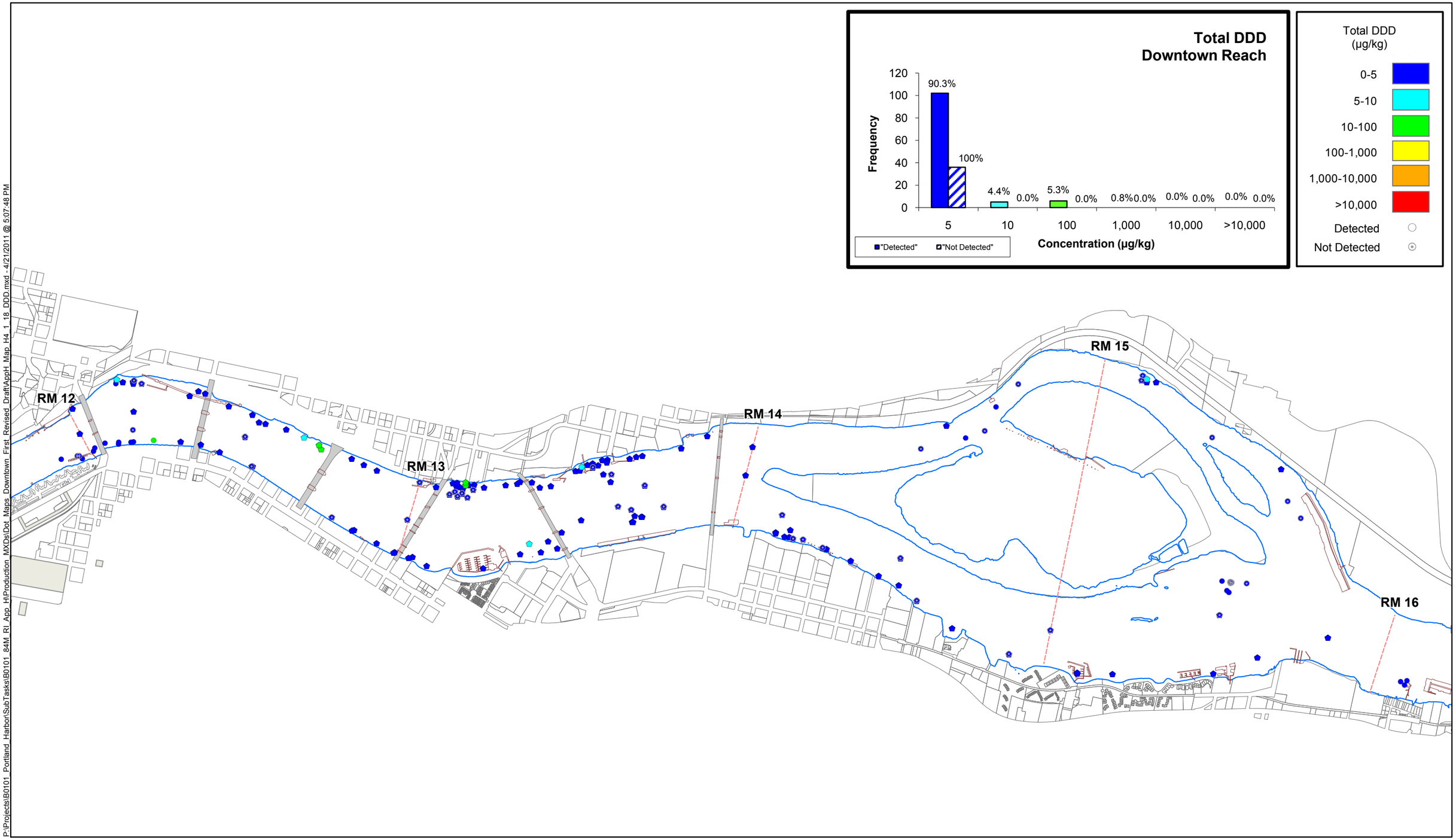

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N

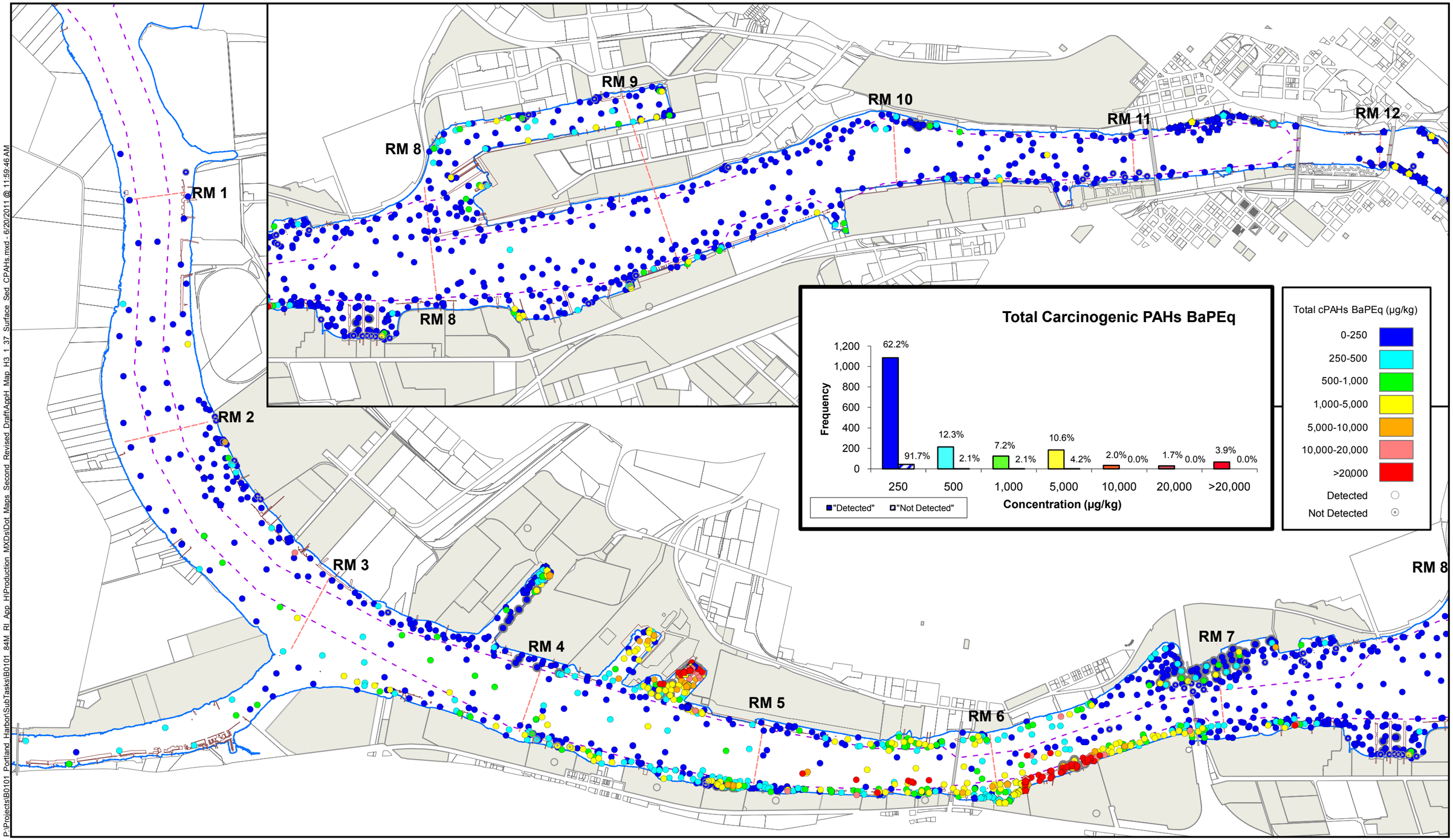
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-12
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total DDD (µg/kg)
Downtown Reach



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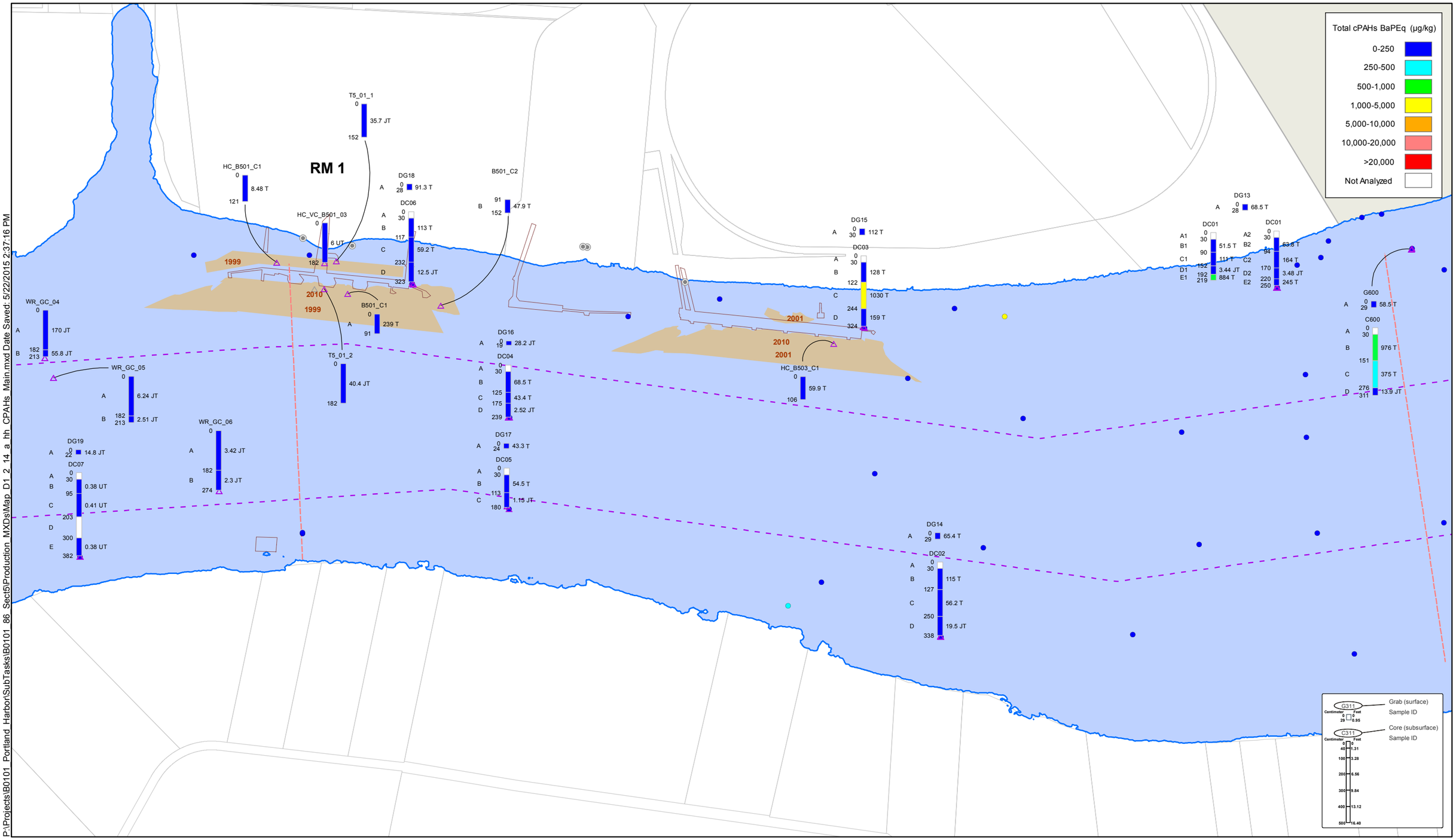
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-13
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

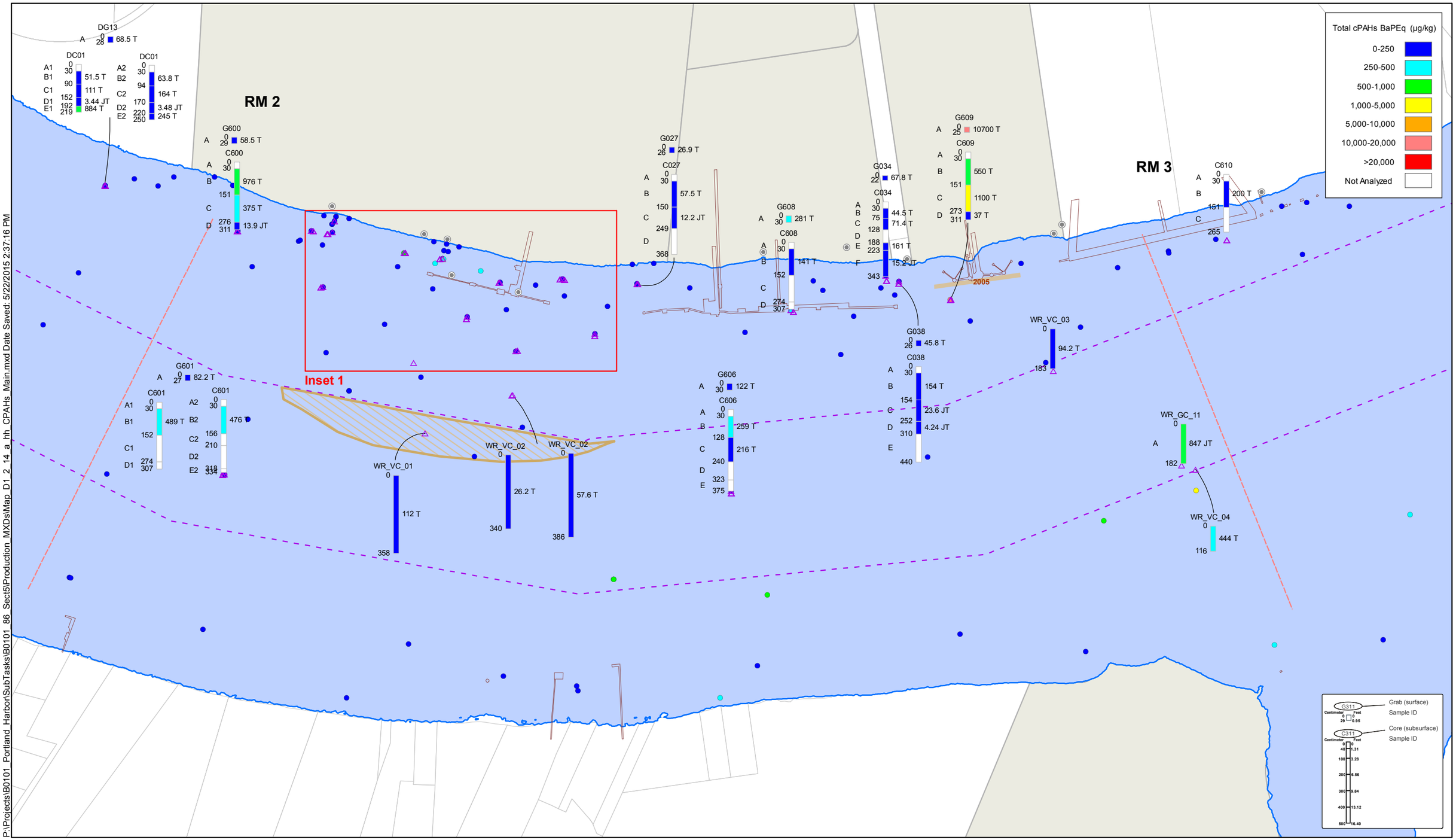
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14a

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 1 to 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

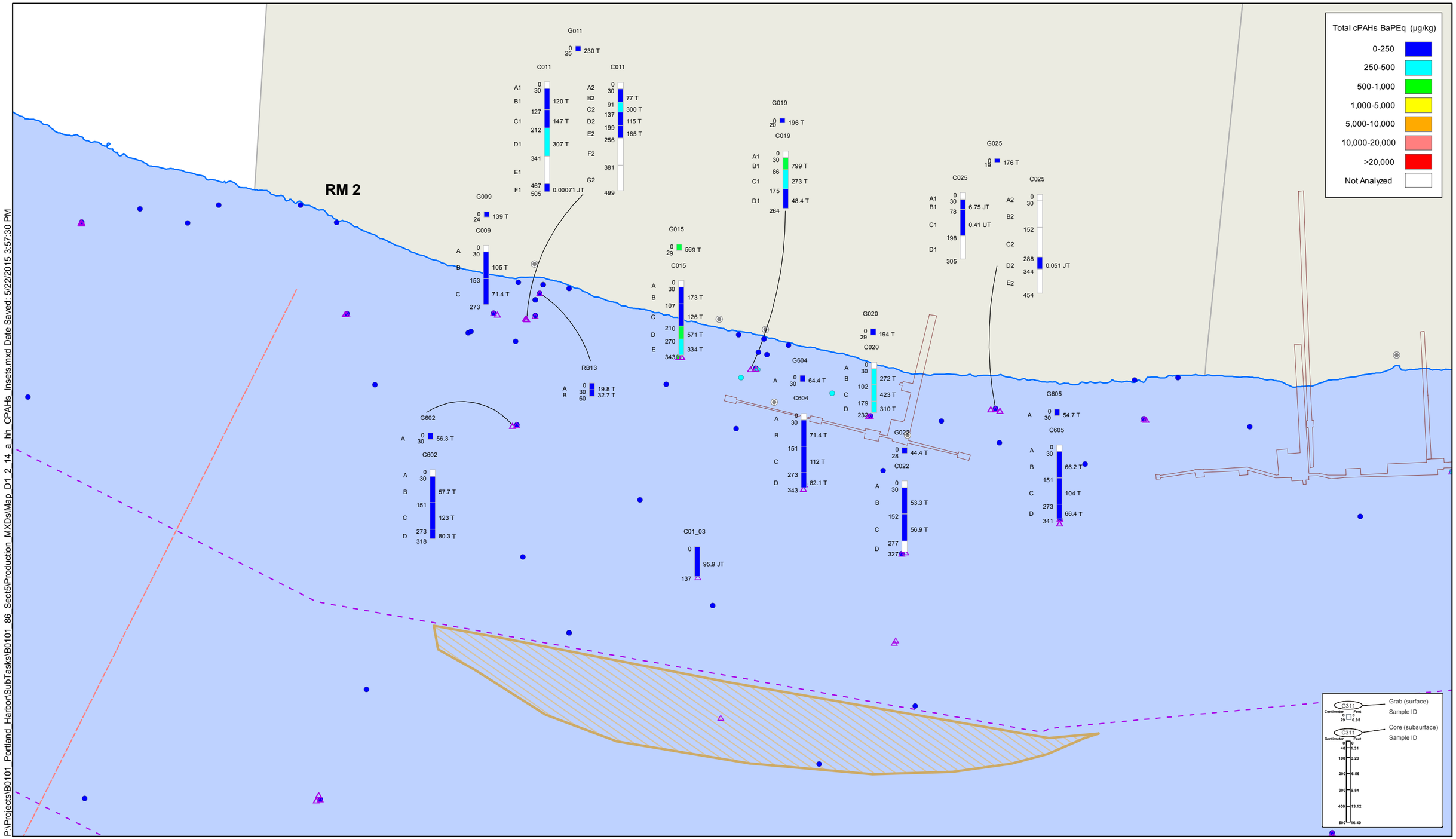
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 2 to 3



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

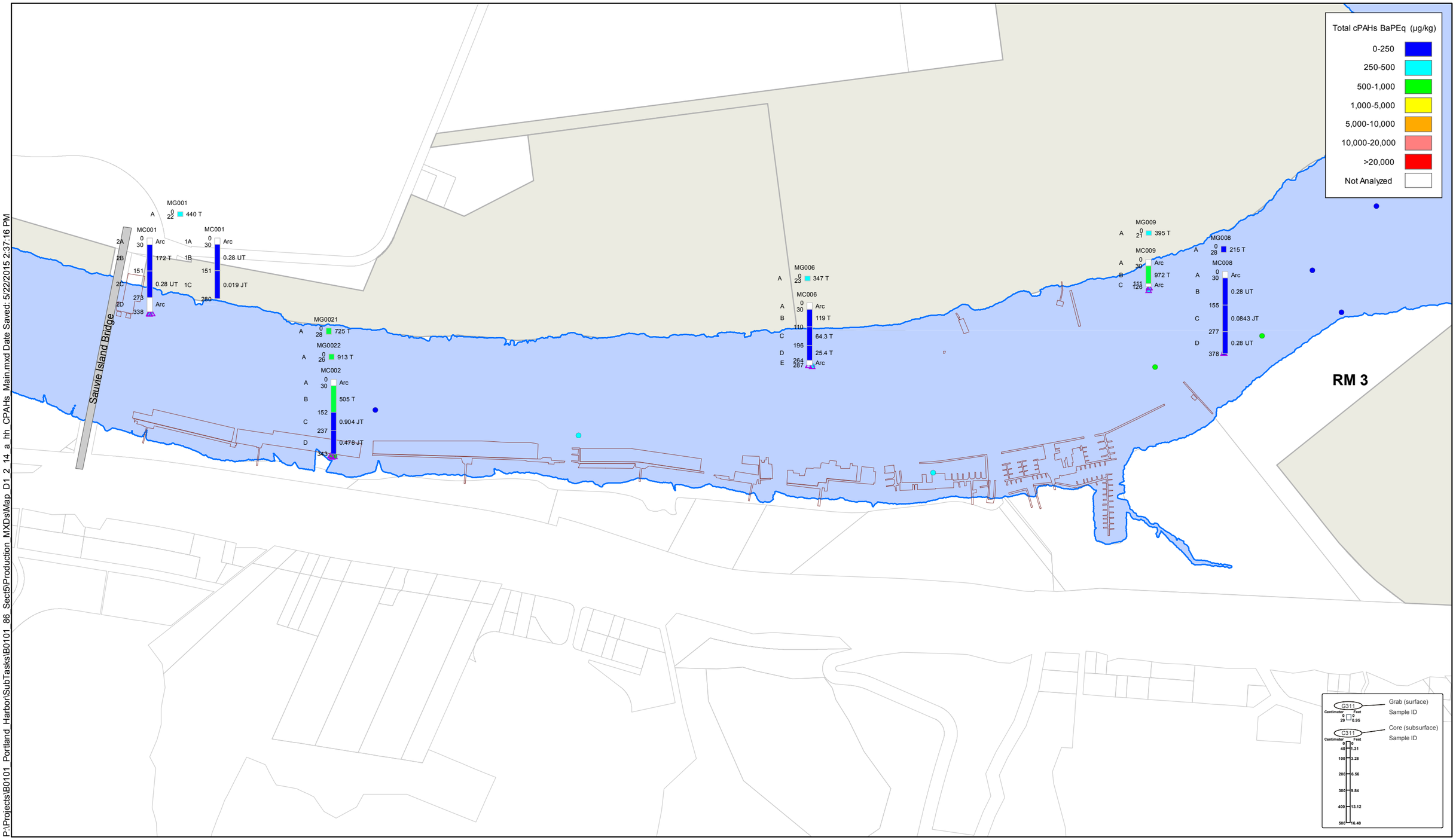
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14b1

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 2 to 3 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

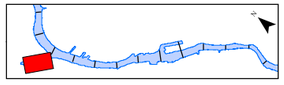
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected



Map D1.2-14c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 3 Multnomah Channel

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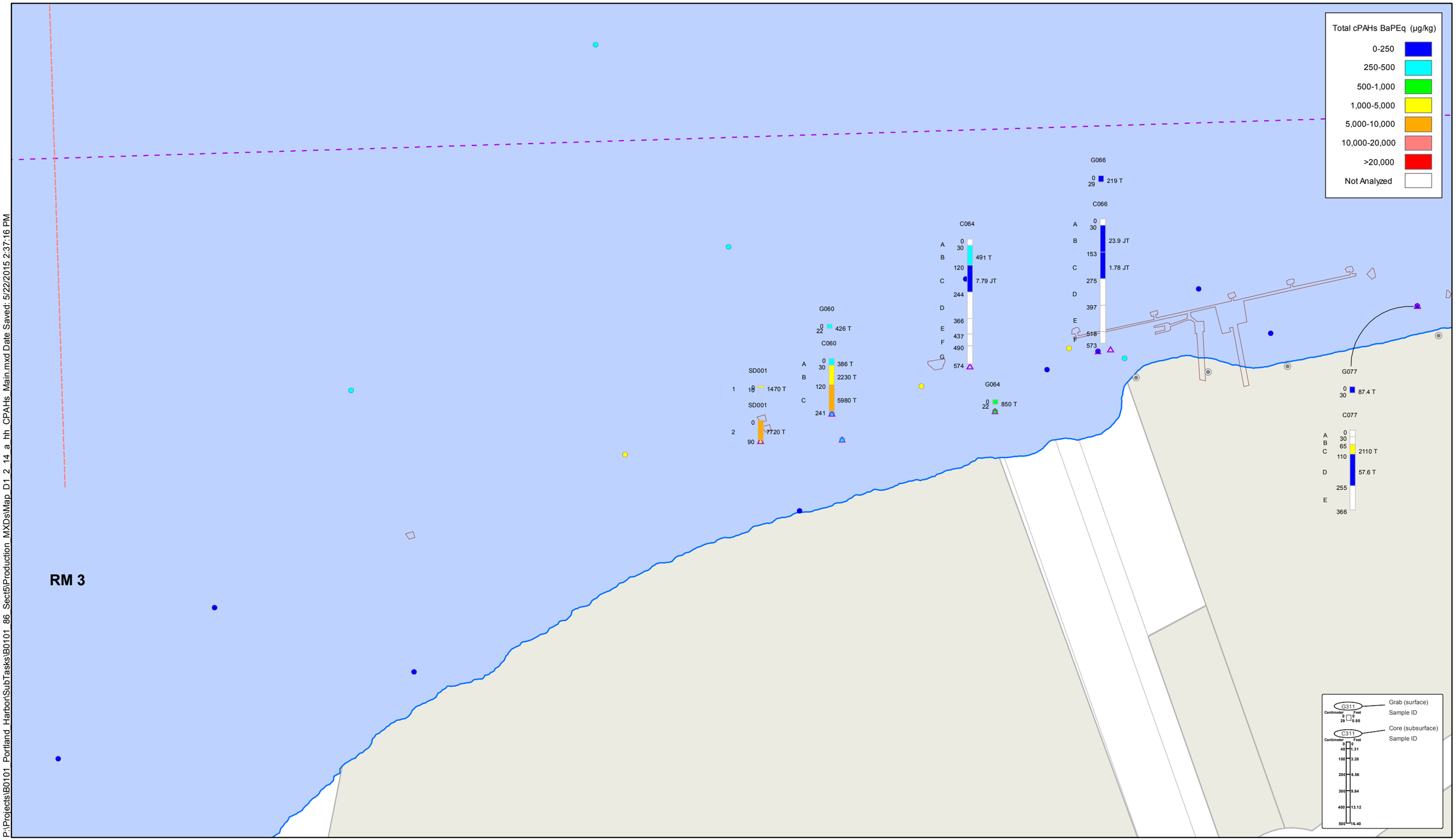

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 3 to 3.5

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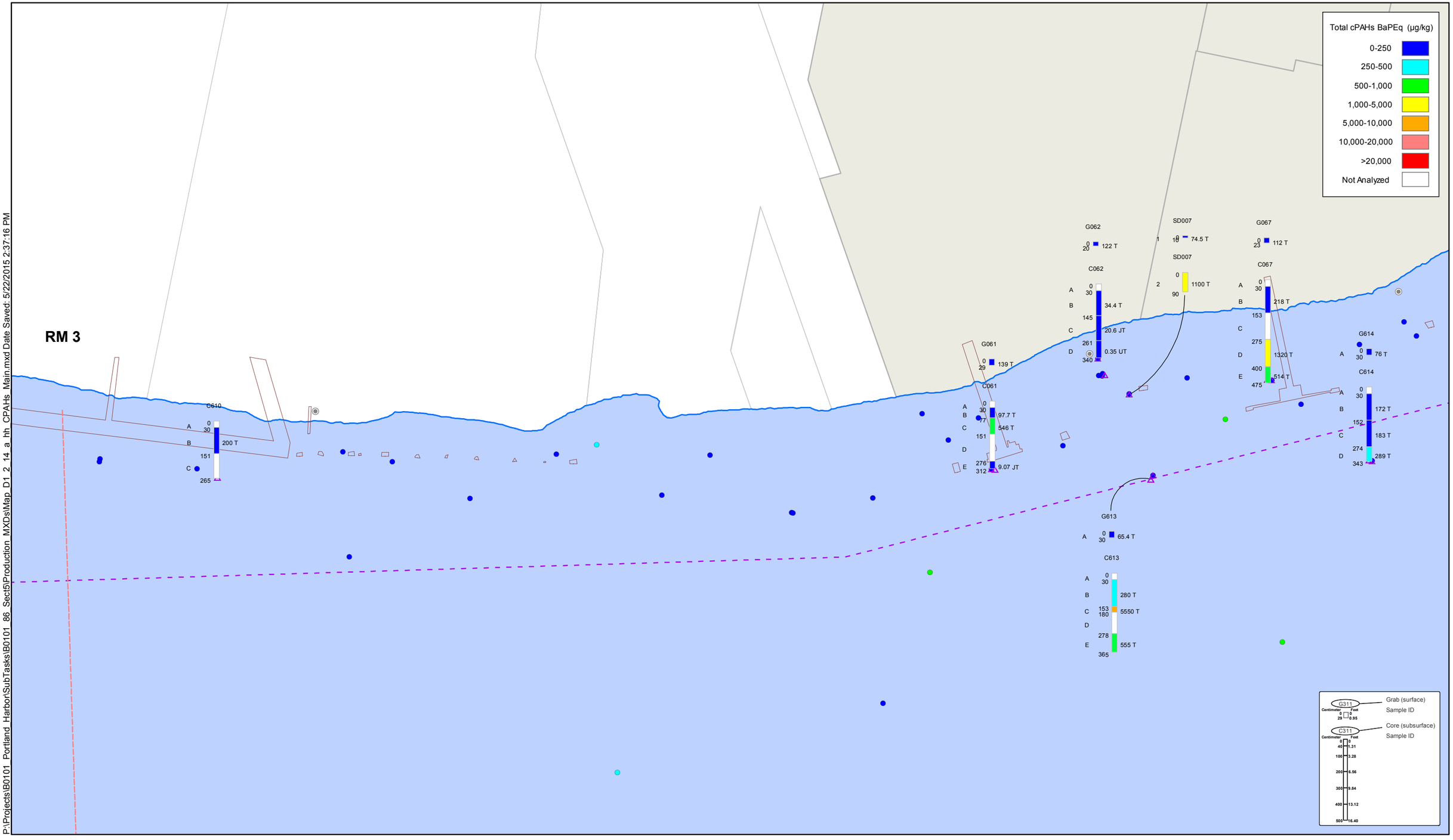


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

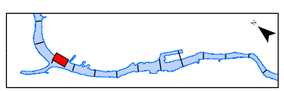
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

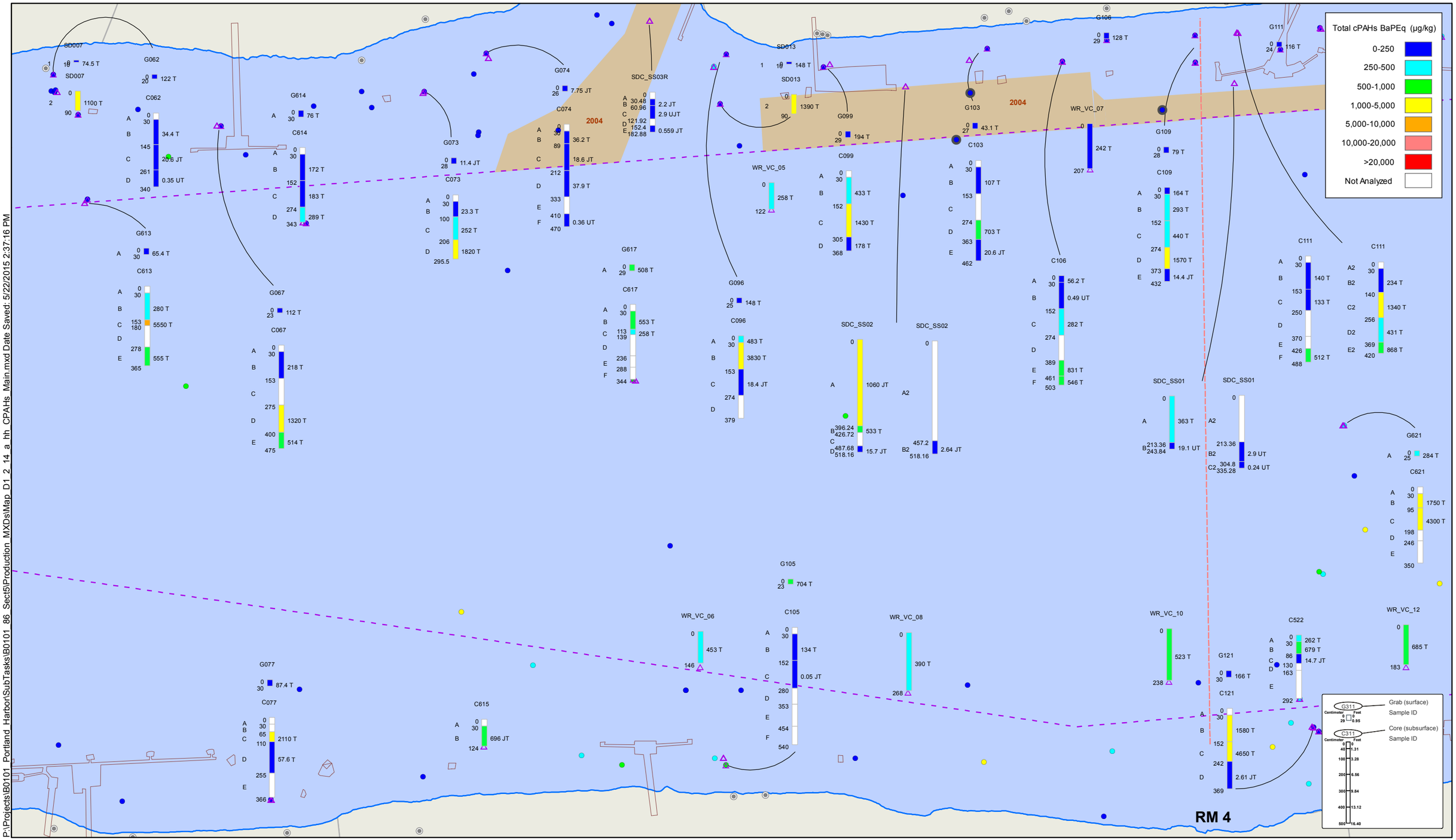
J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected



Map D1.2-14e

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 3 to 3.5



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

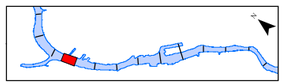
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected



Map D1.2-14f

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 3.5 to 4

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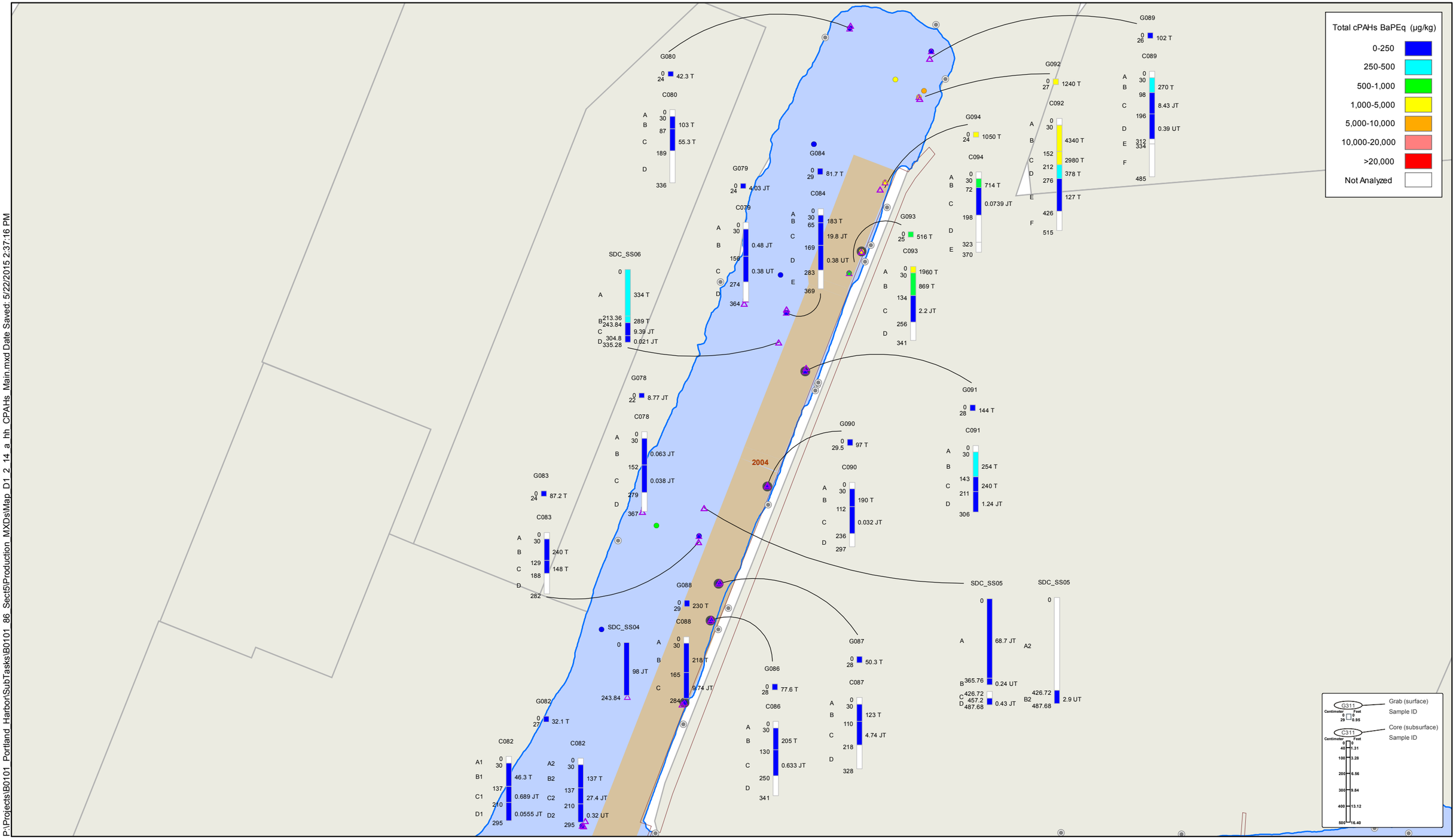


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

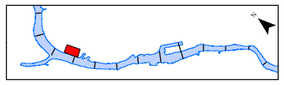
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

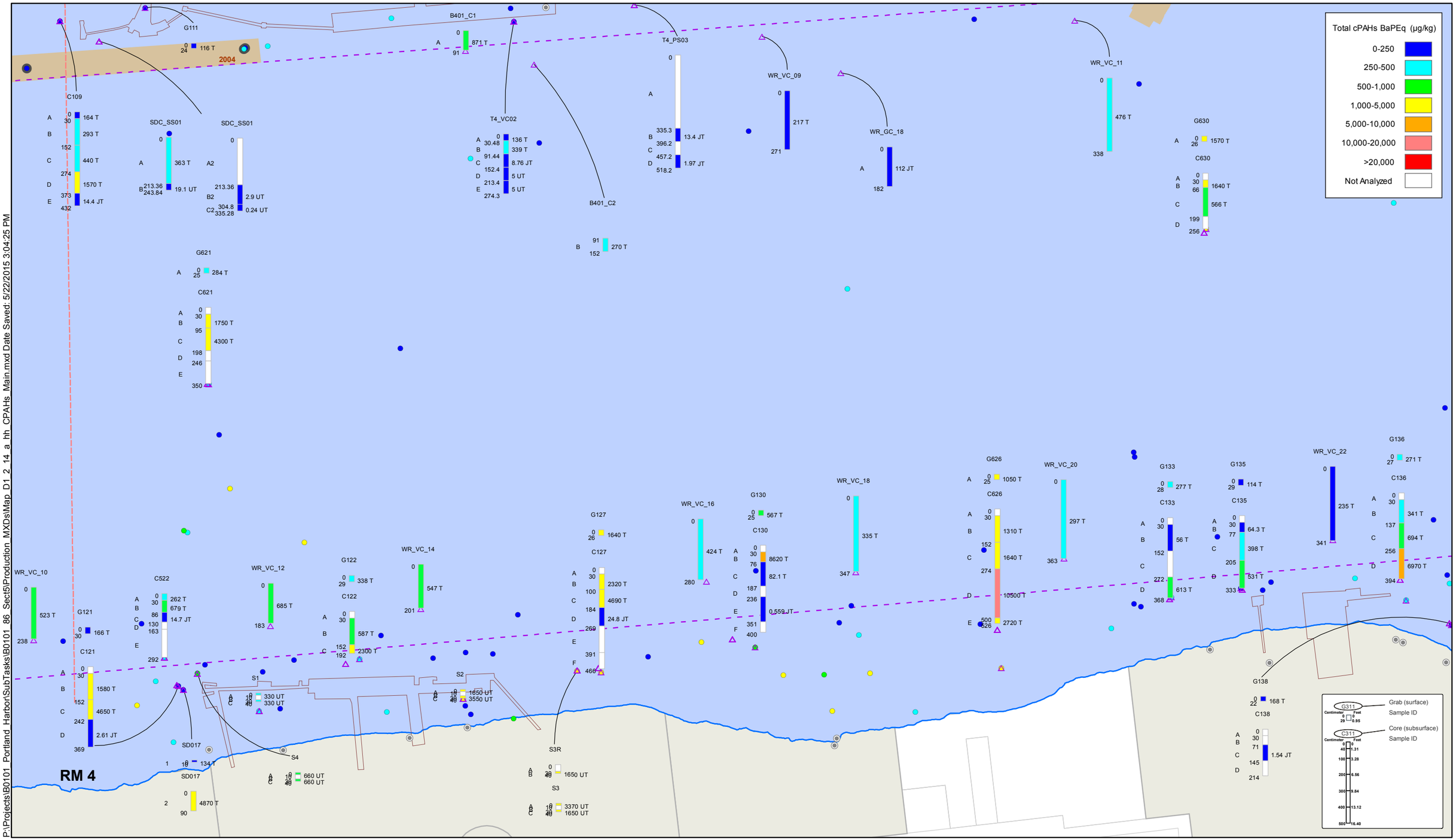
J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected



Map D1.2-14g

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 3.5 to 4 International Slip



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14h

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 4 to 4.5

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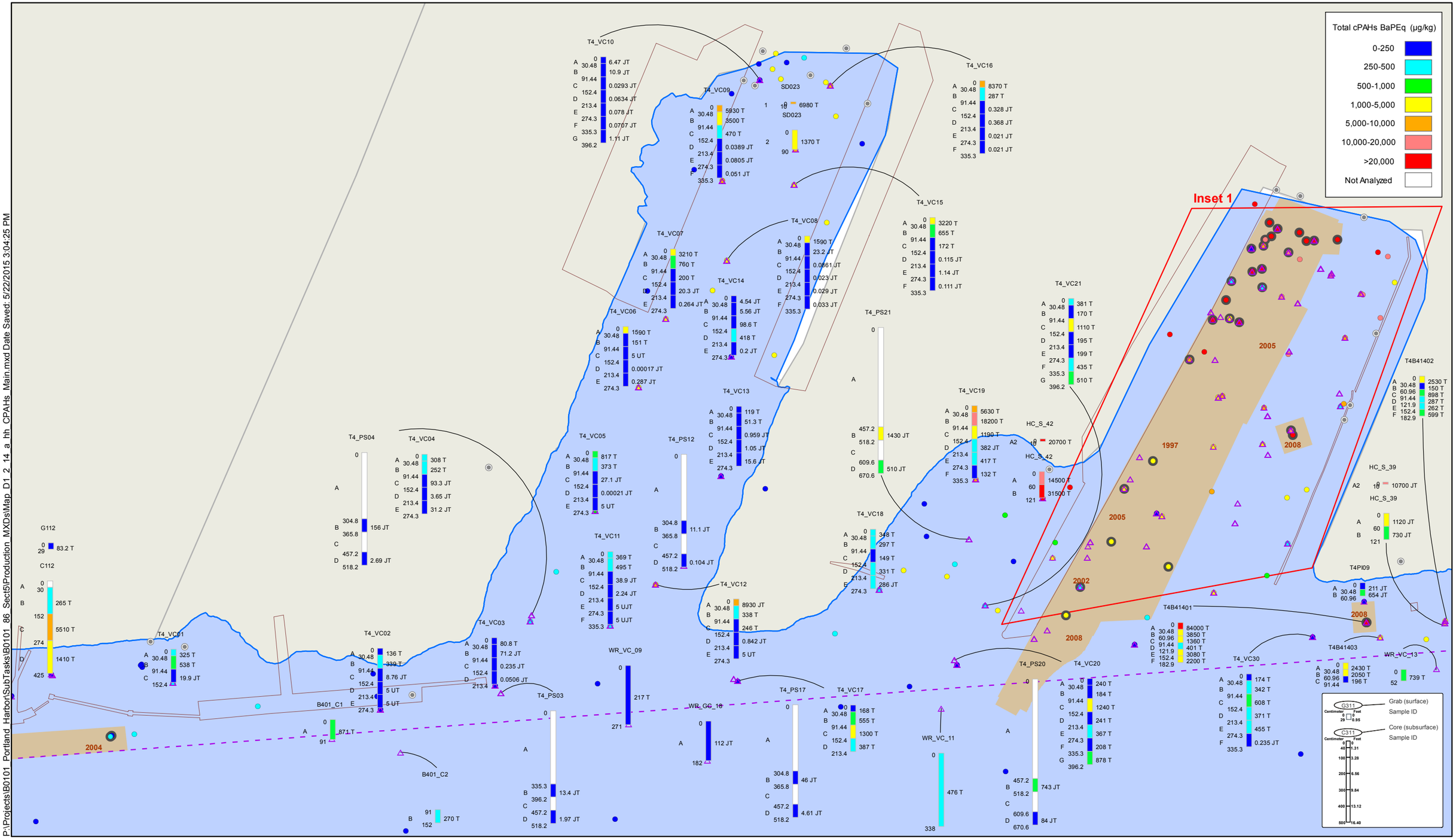


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

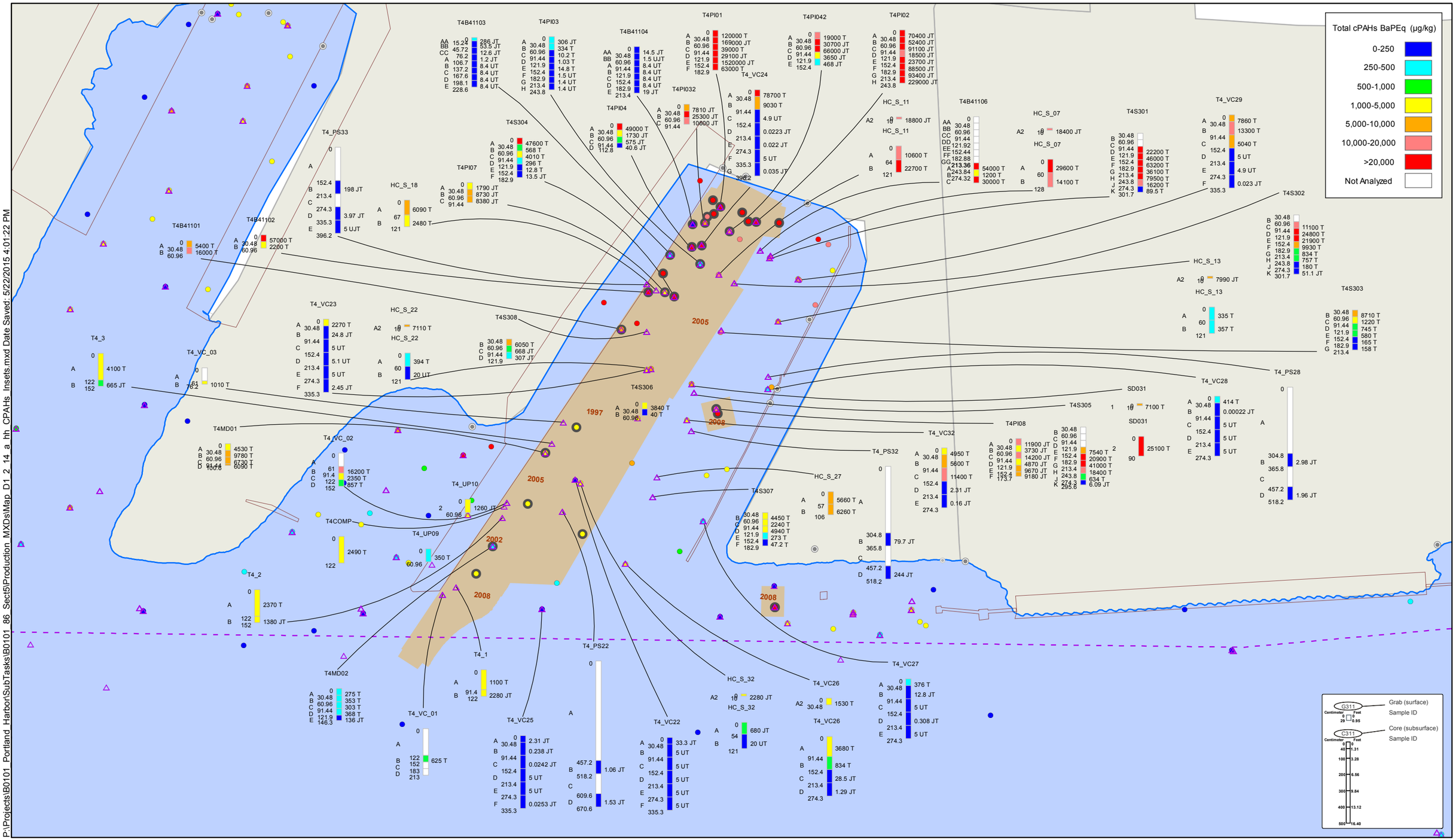
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14i

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 4 to 4.5 Slips 1 and 3



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

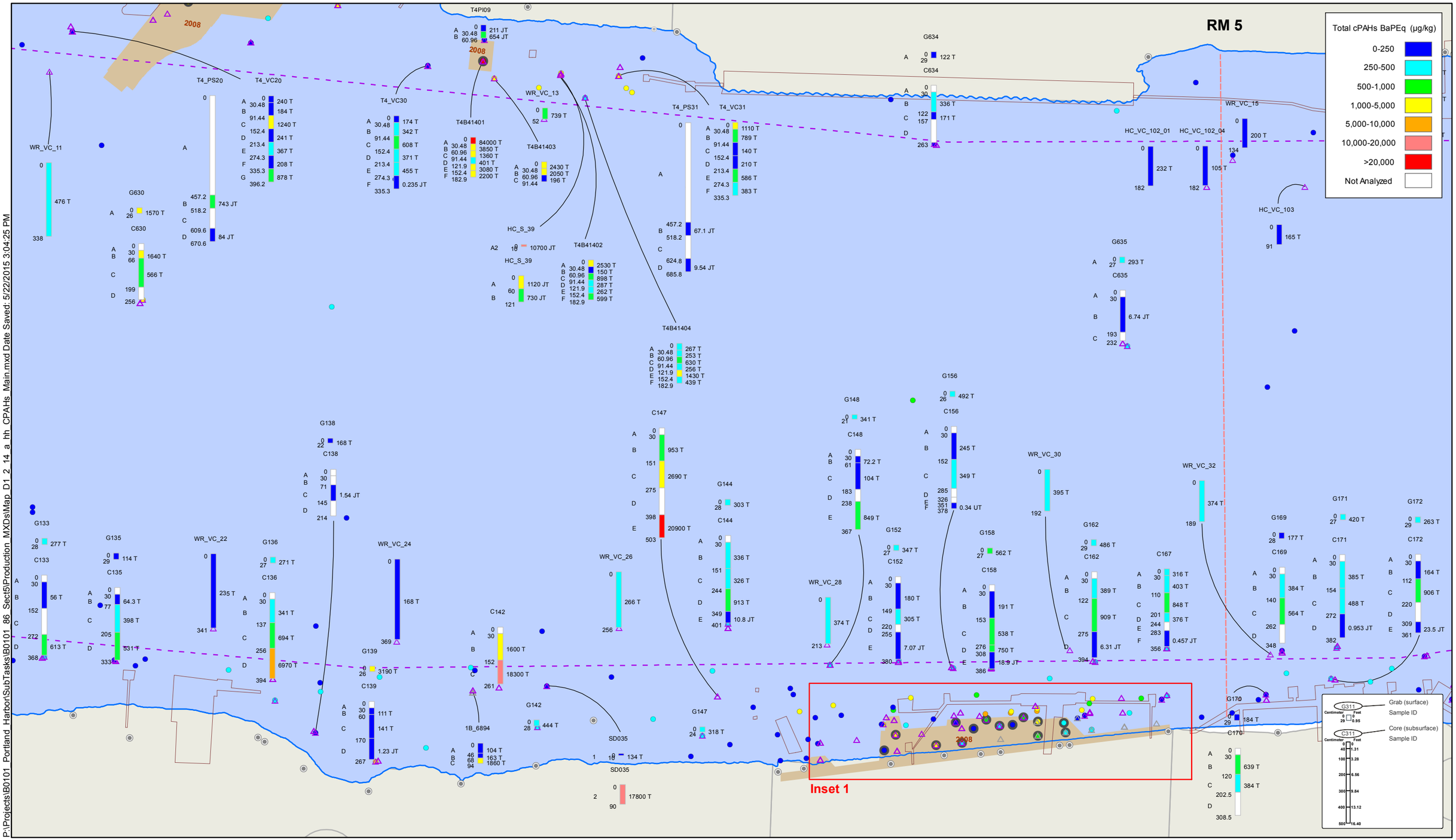
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14i1

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 4 to 4.5 - Slip 3 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
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U = Analyte was analyzed for but not detected

Map D1.2-14j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 4.5 to 5

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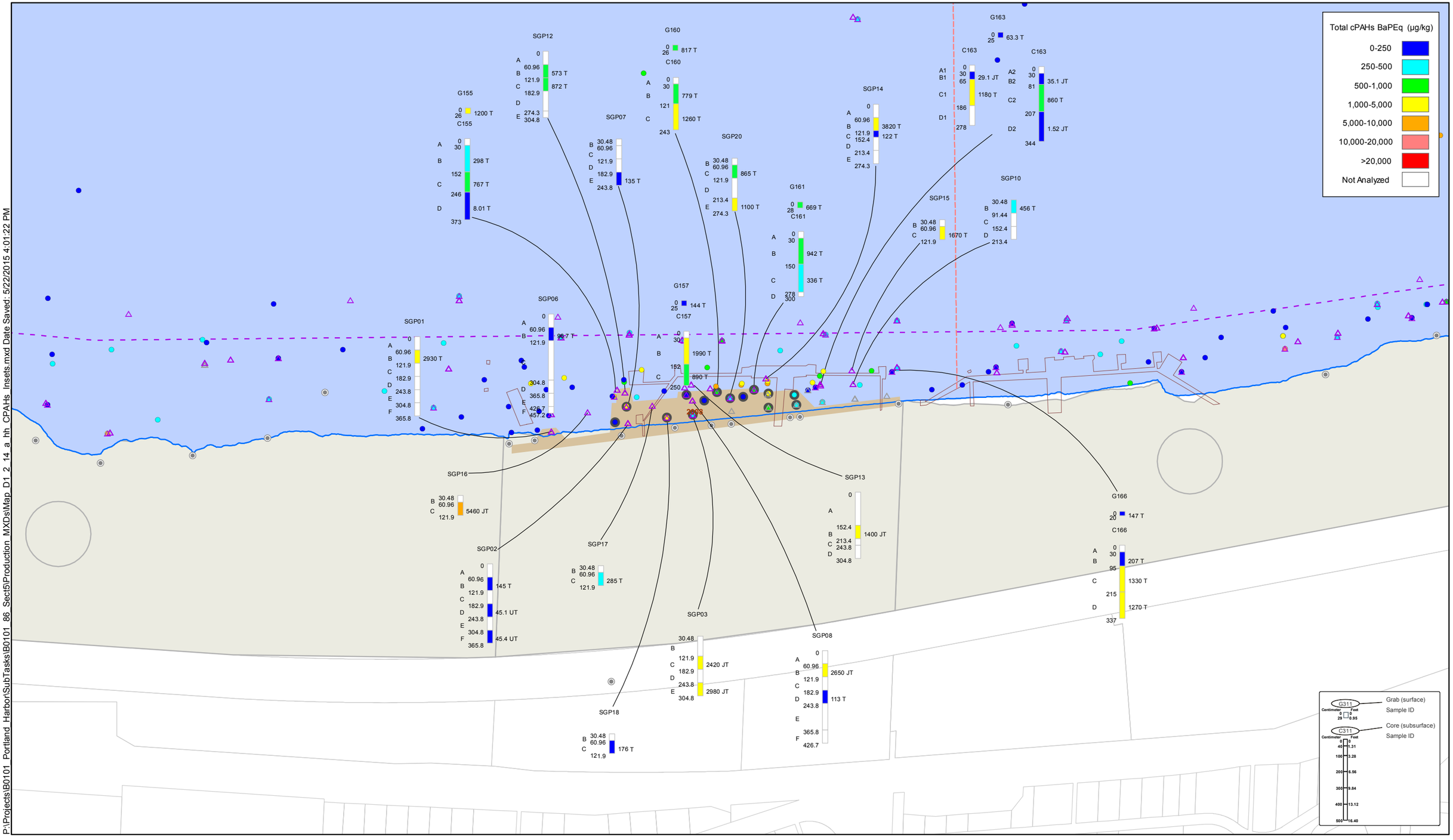


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

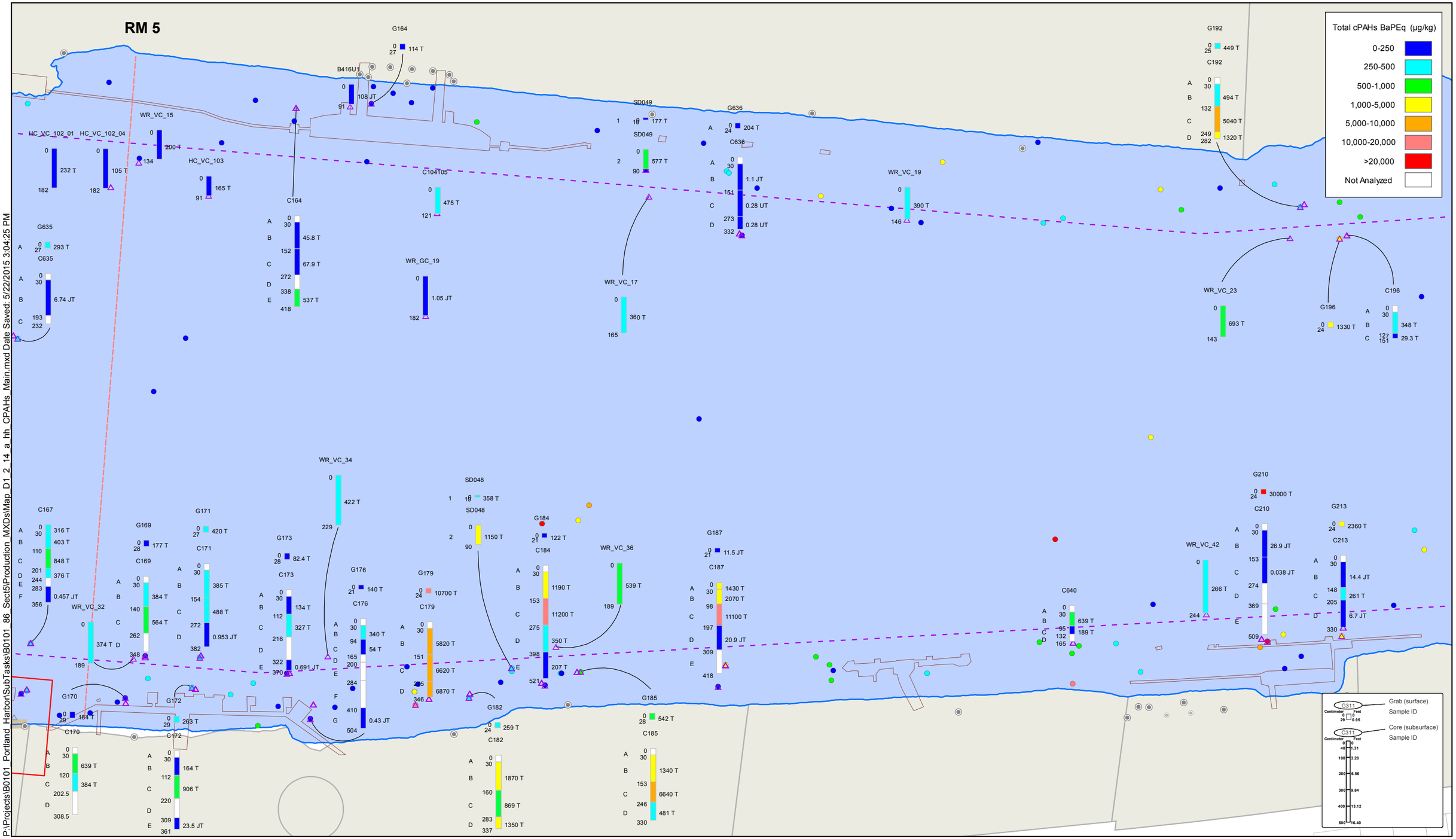
- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14j1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 4.5 to 5 - Inset 1



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

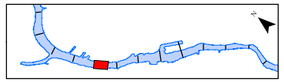
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected



Map D1.2-14k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 5 to 5.5

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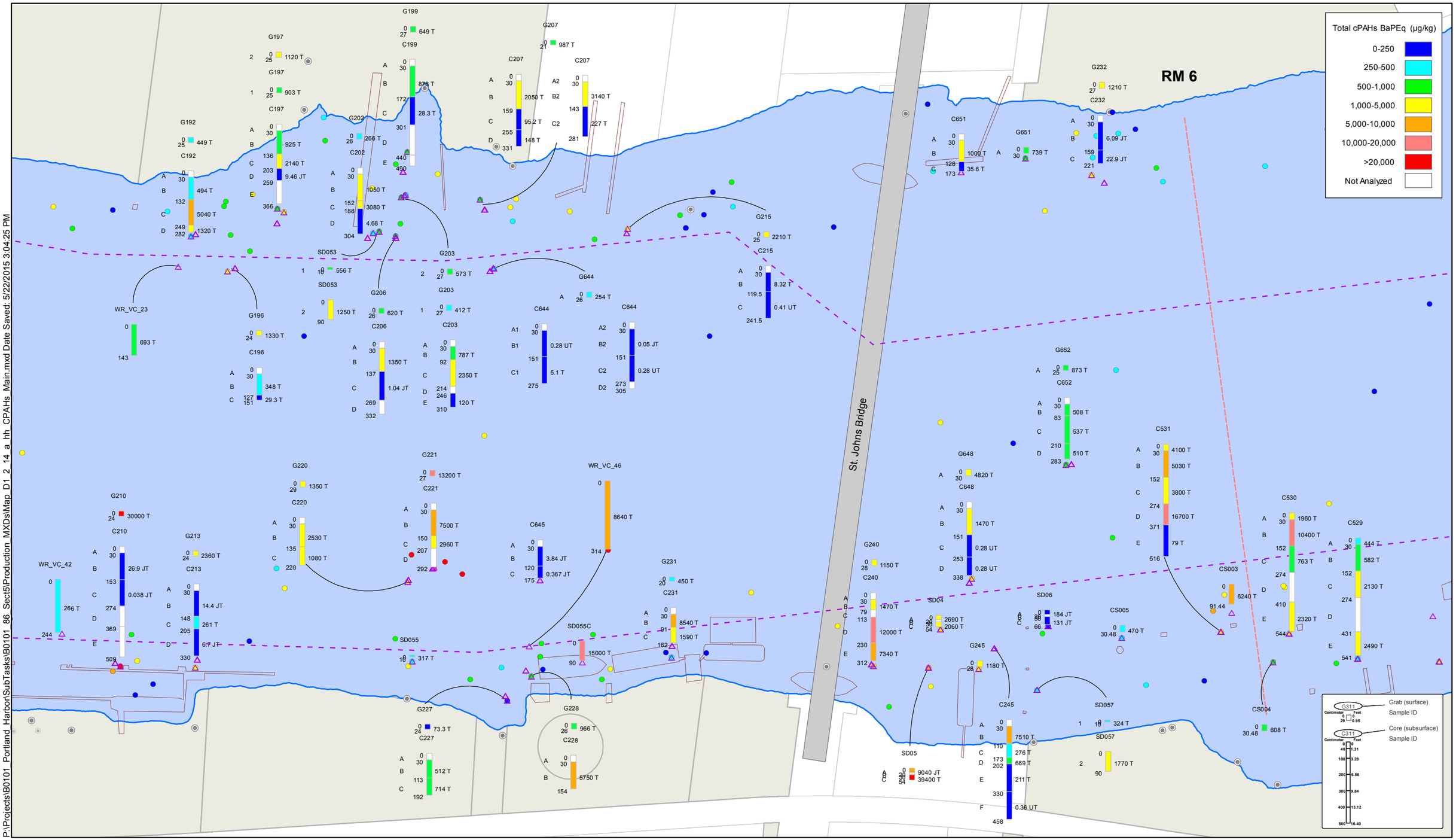

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

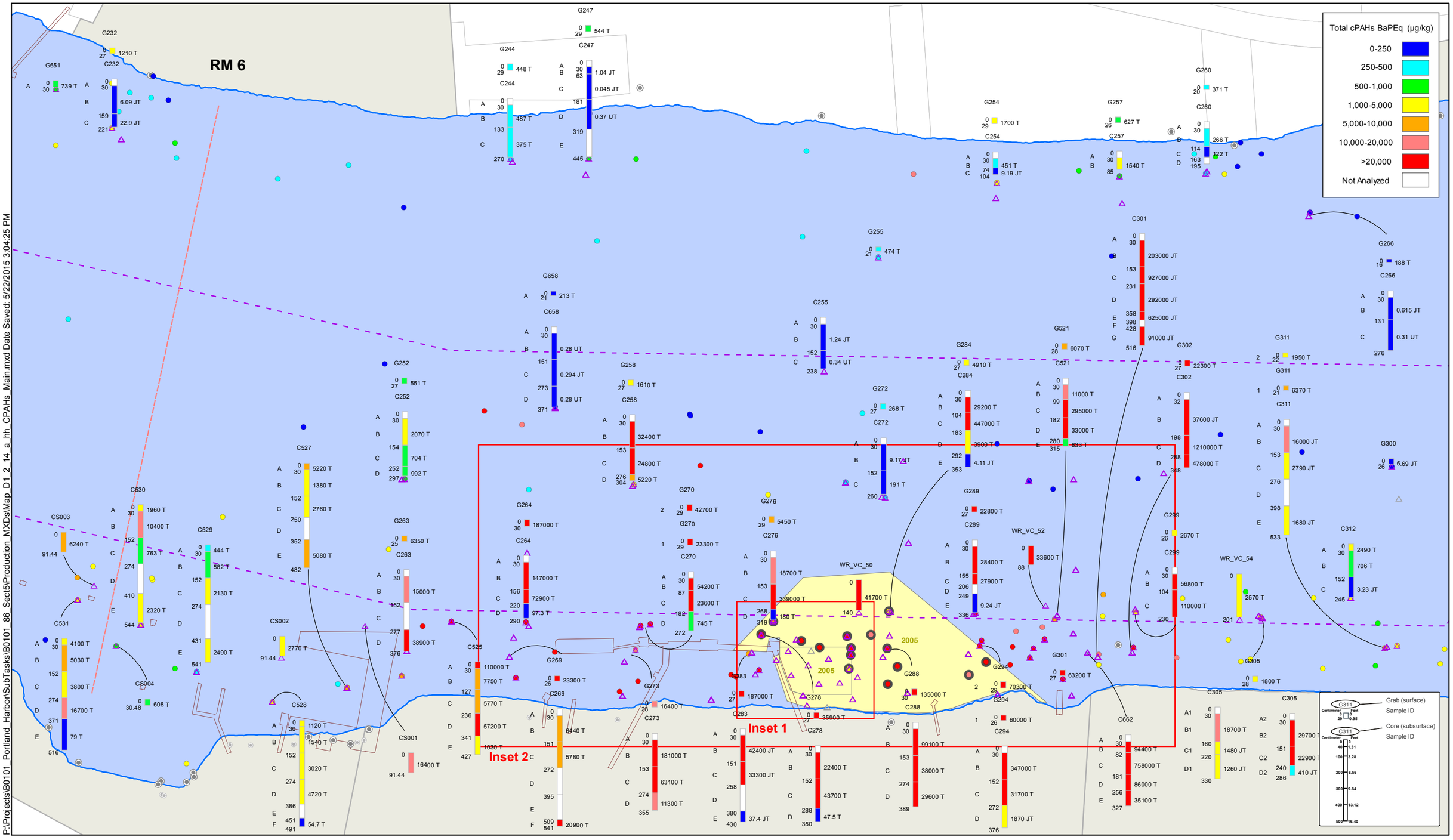
- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14l
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 5.5 to 6



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

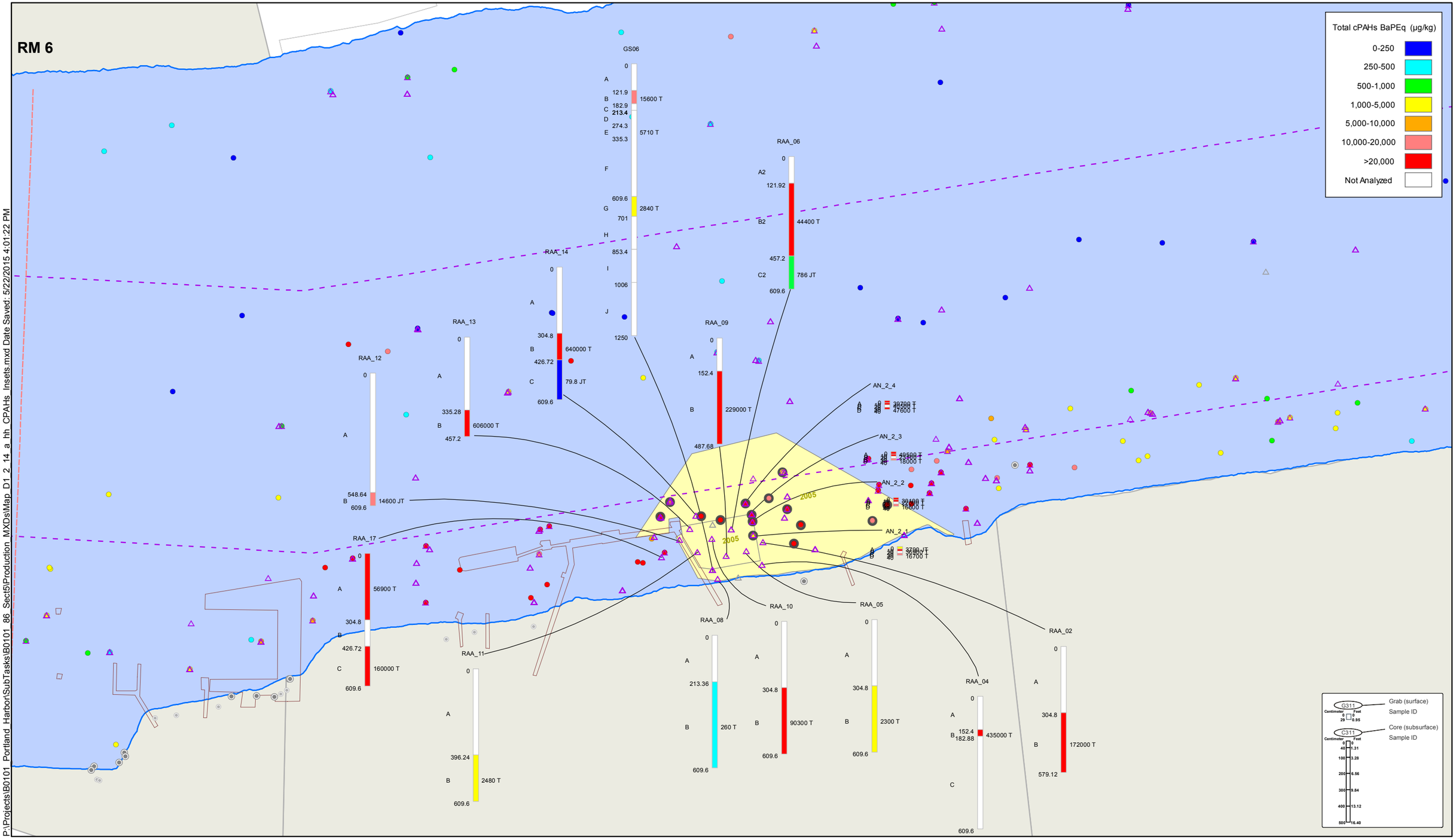
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 6 to 6.5



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

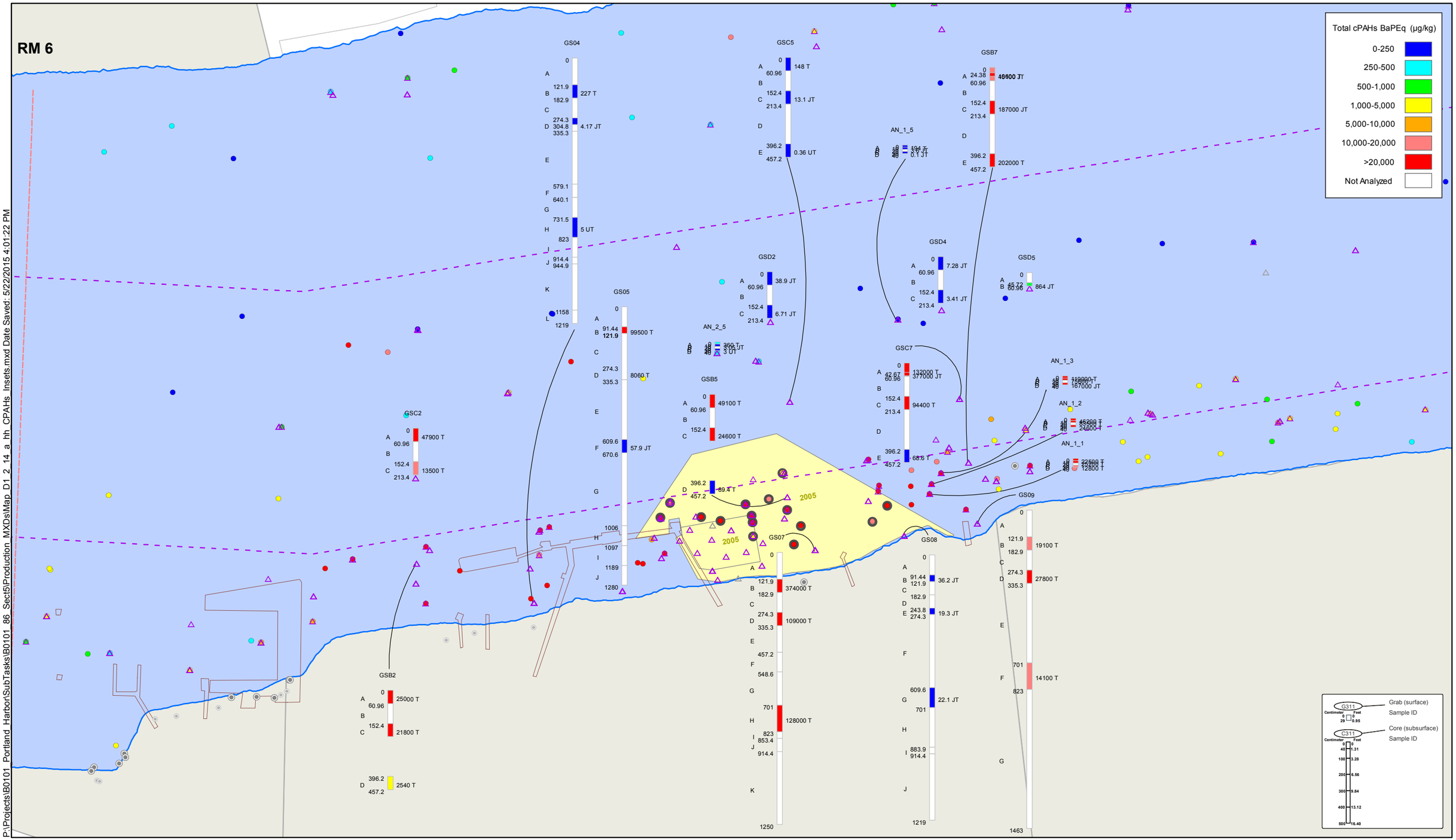
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14m1

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 6 to 6.5 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14m2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 6 to 6.5 - Inset 2

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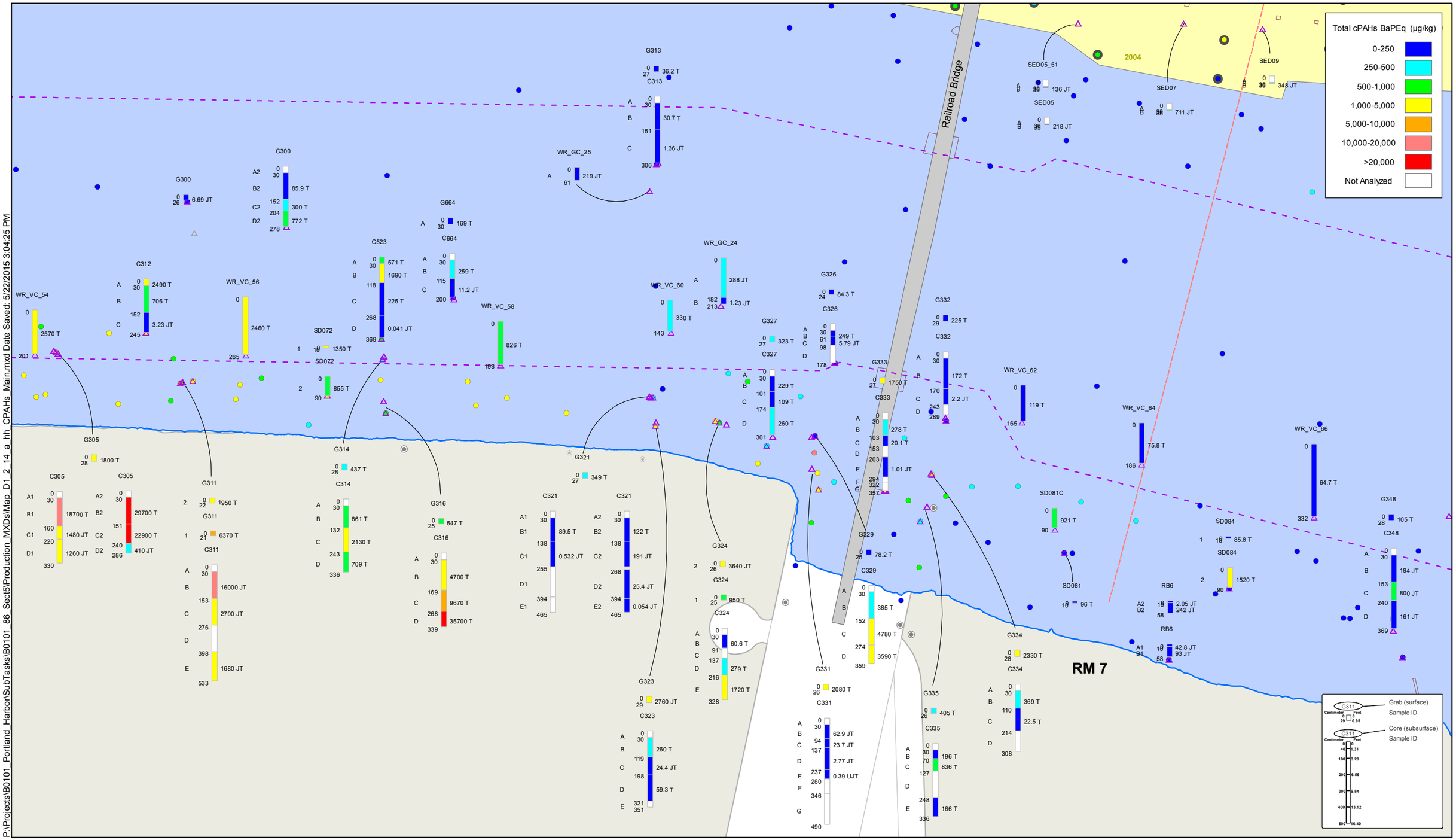


N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

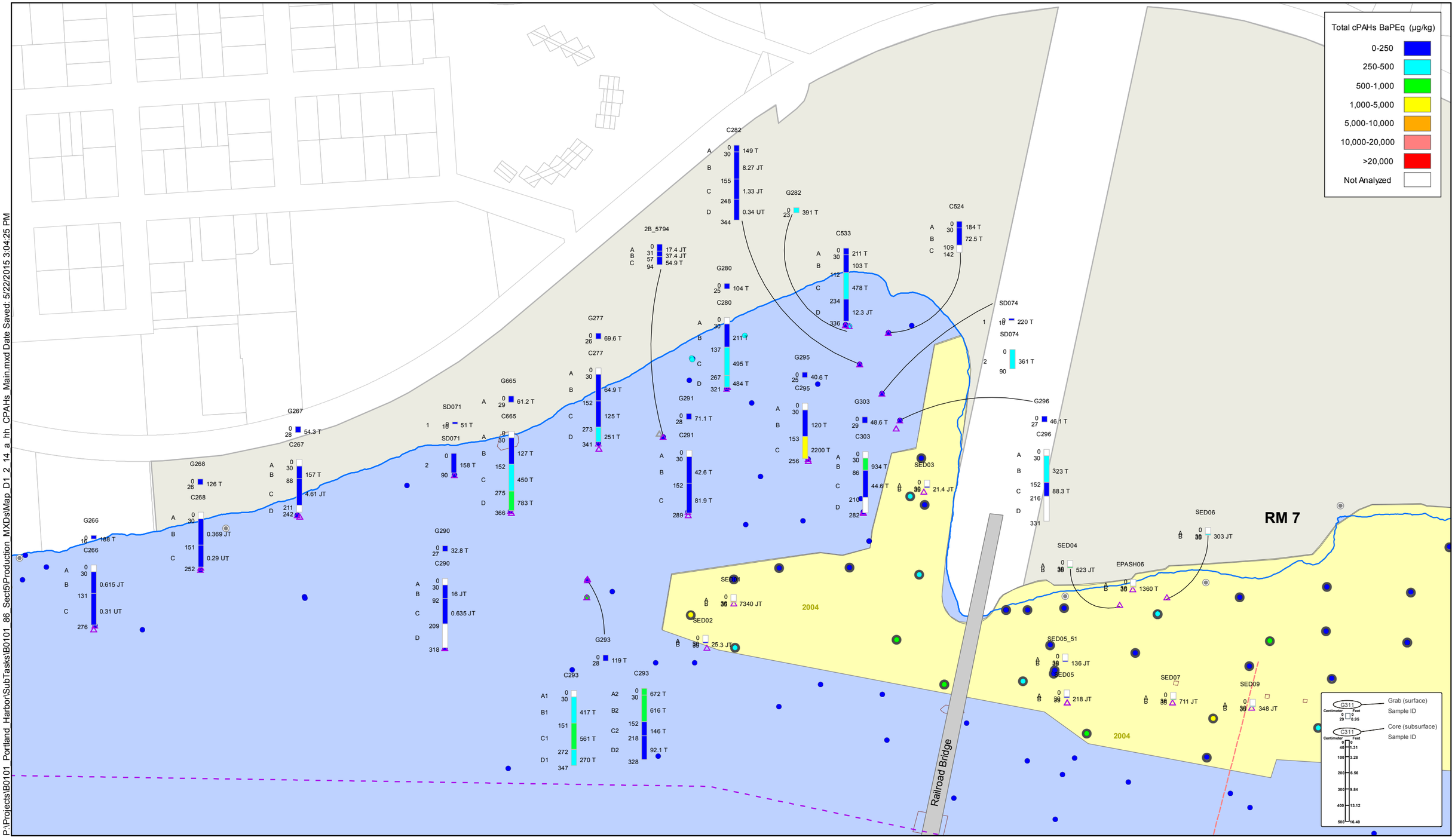
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14n

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 6.5 to 7



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

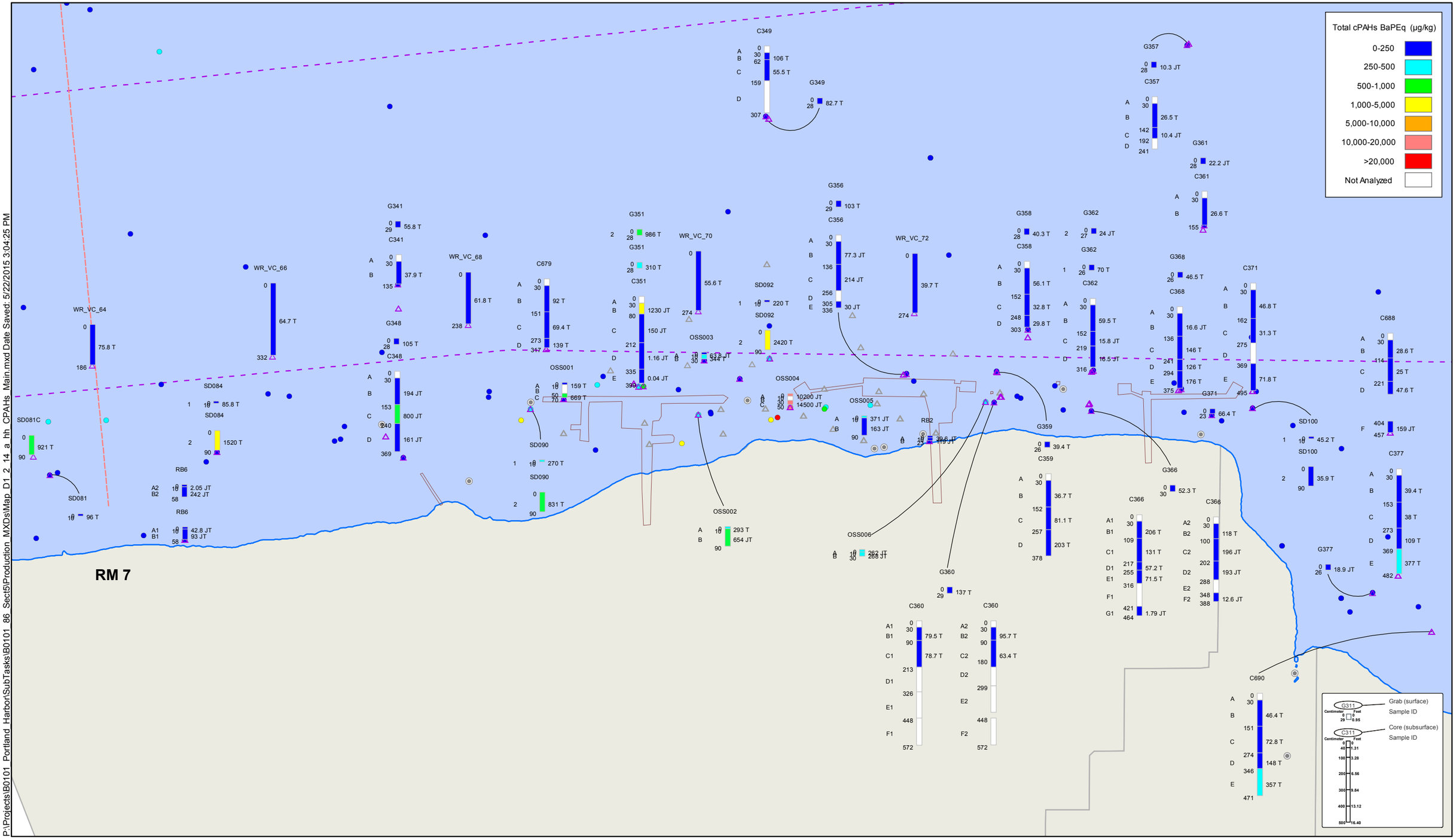
- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 6.5 to 7



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FEATURE SOURCES:
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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
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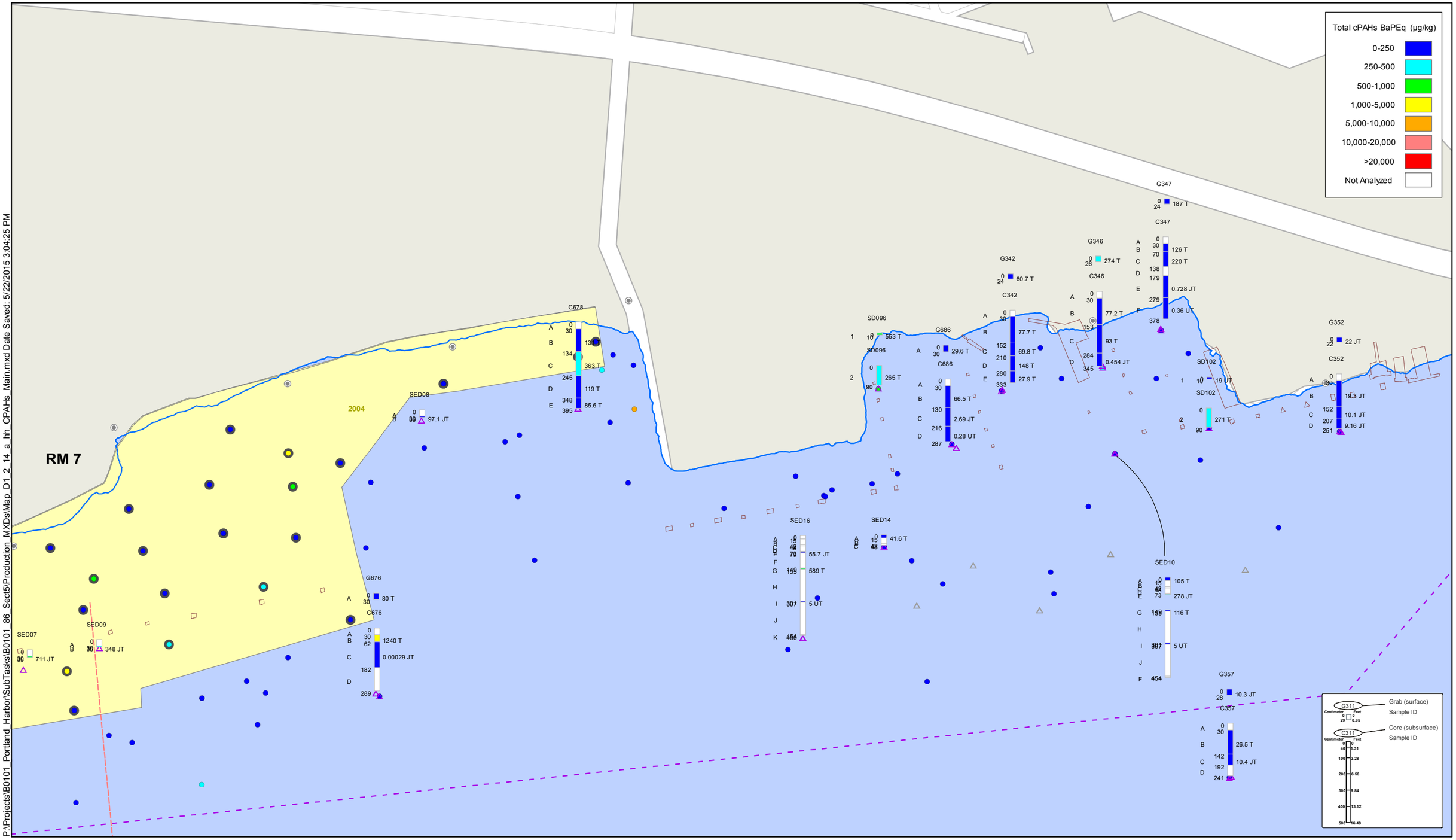
U = Analyte was analyzed for but not detected

Map D1.2-14p
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 7 to 7.5

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_14_a_hh_CPAHs_Main.mxd Date Saved: 5/22/2015 3:04:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

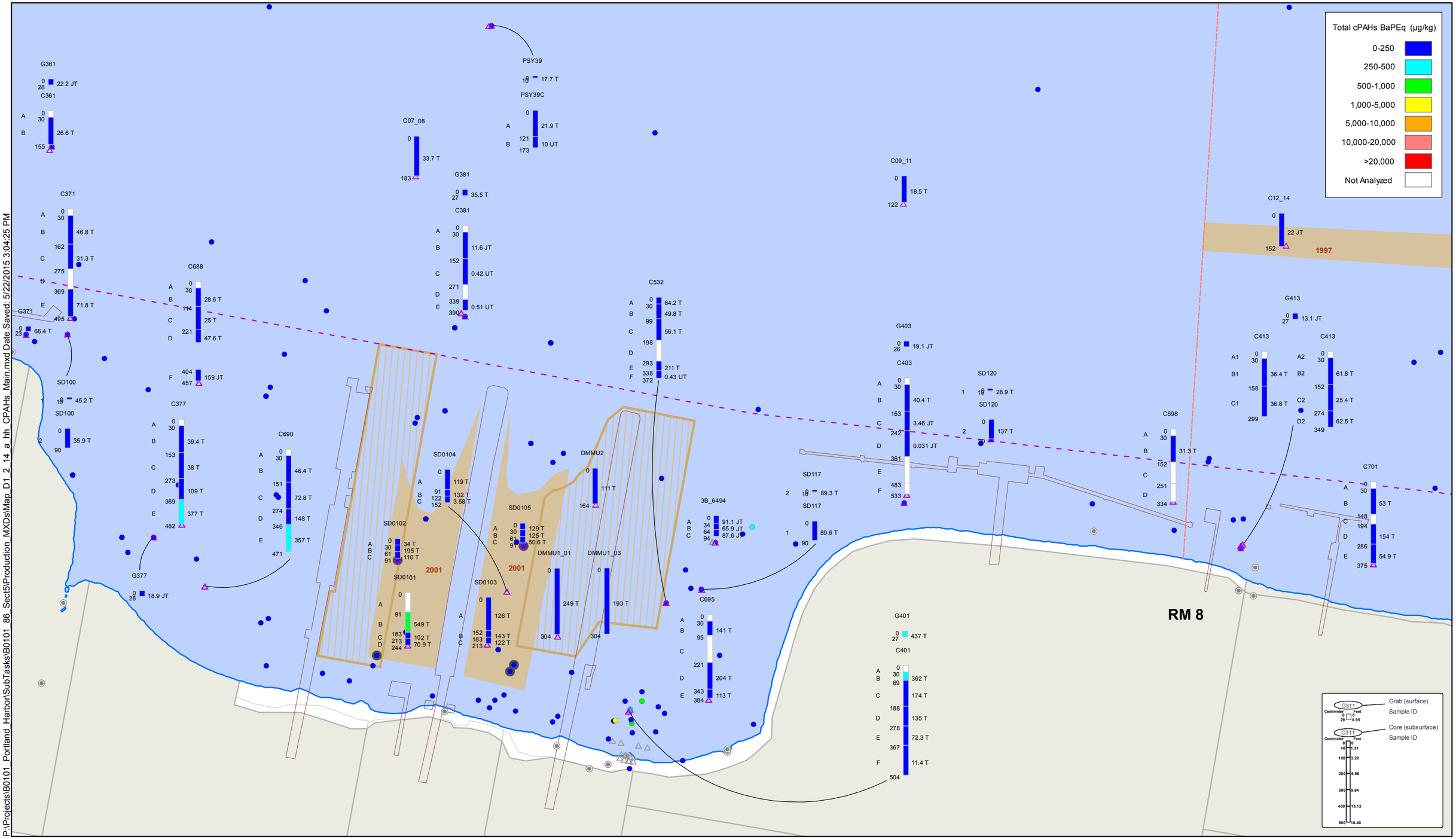
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14q

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 7 to 7.5



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FEATURE SOURCES:
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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

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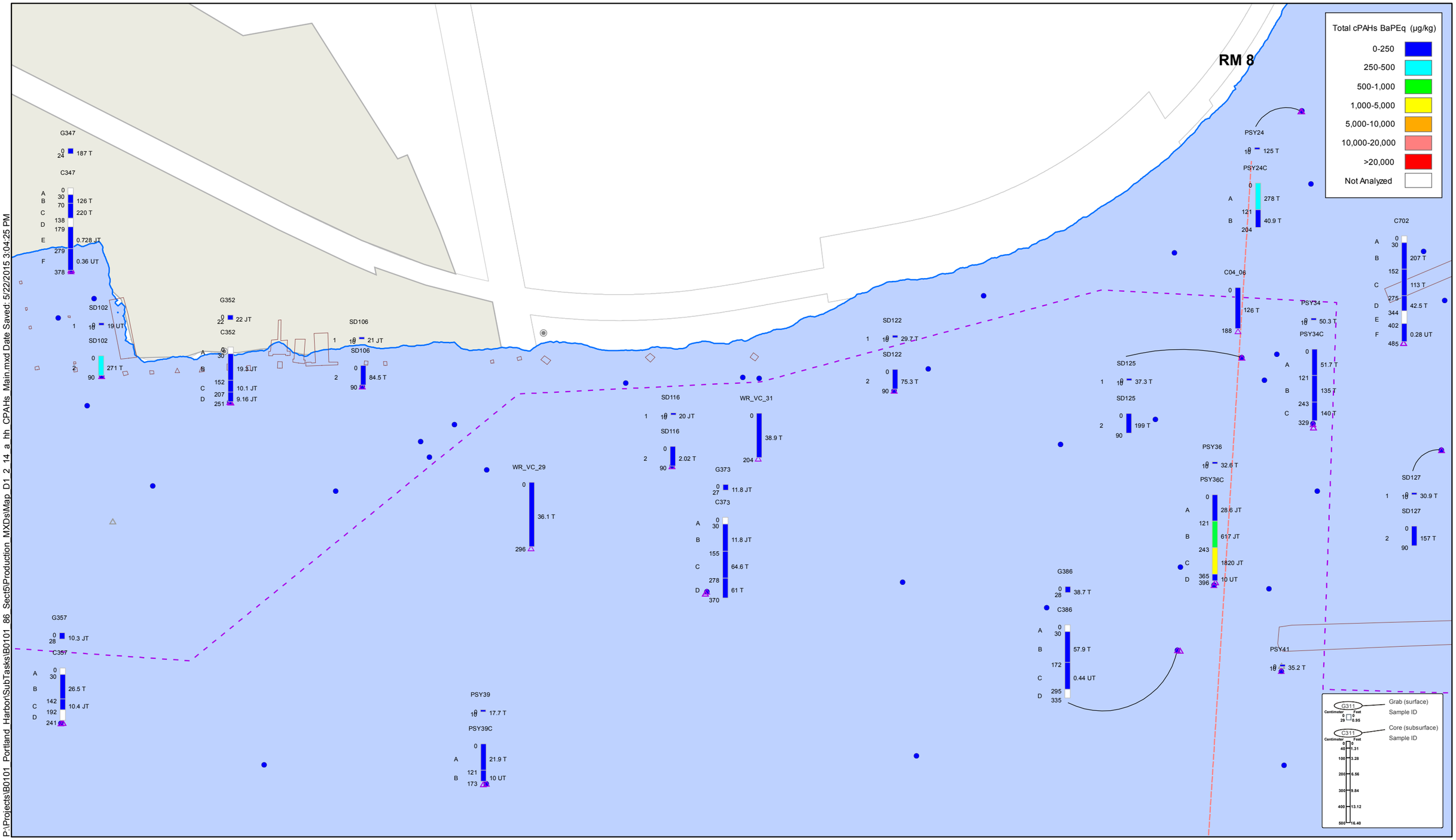
U = Analyte was analyzed for but not detected

Map D1.2-14r

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 7.5 to 8



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FEATURE SOURCES:
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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

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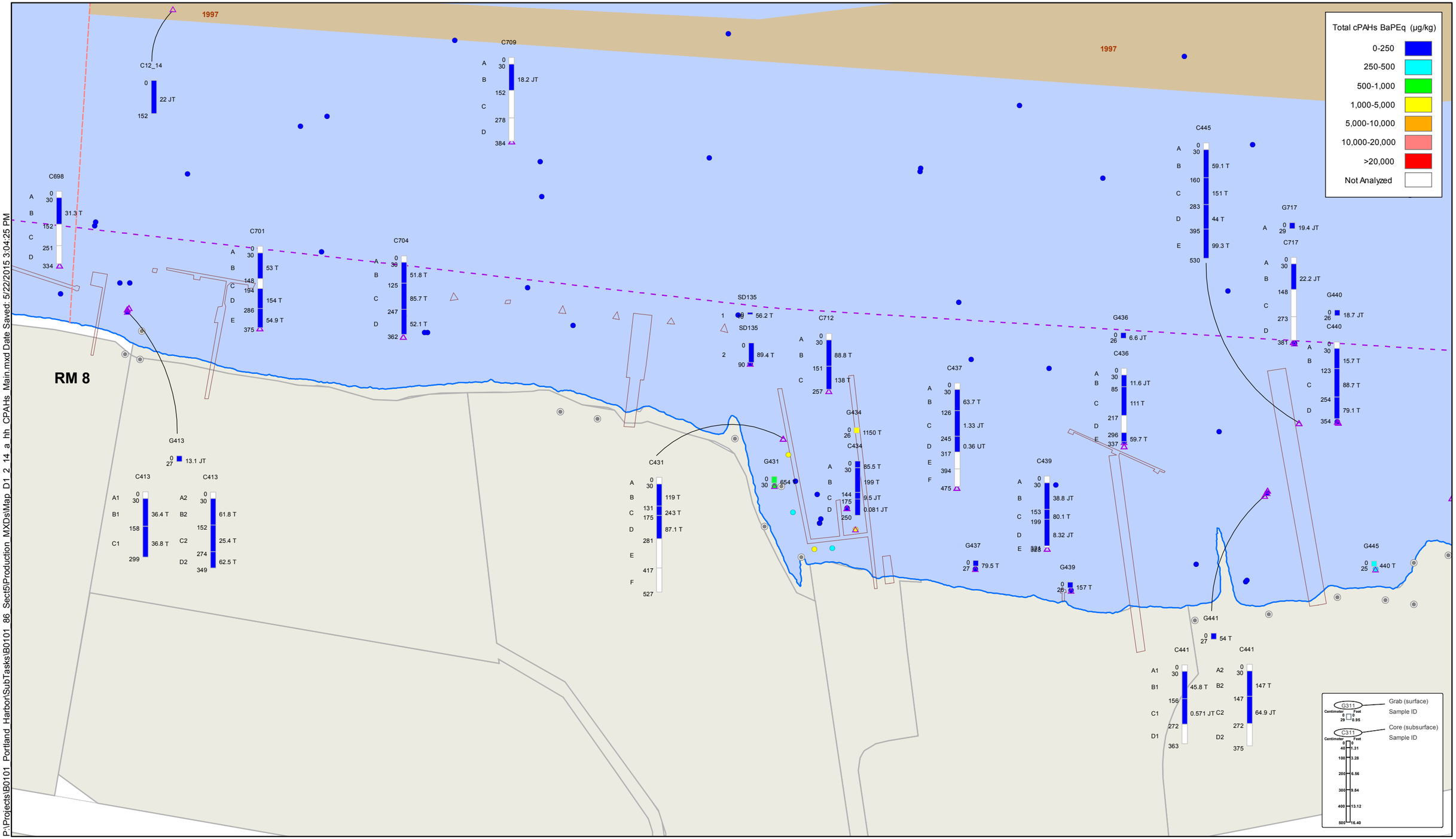
U = Analyte was analyzed for but not detected

Map D1.2-14s
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 7.5 to 8



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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

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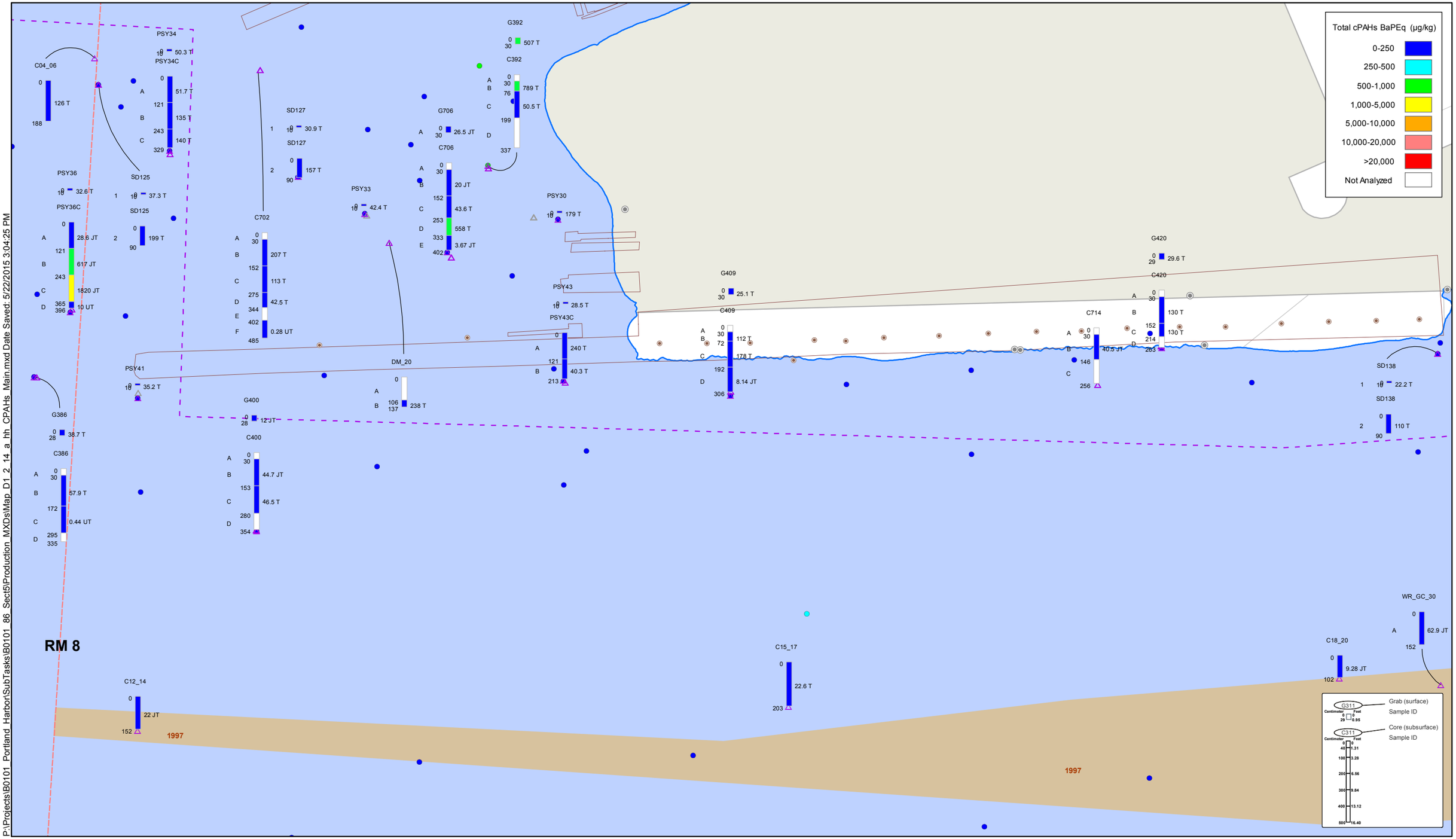
U = Analyte was analyzed for but not detected

Map D1.2-14t
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 8 to 8.5



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

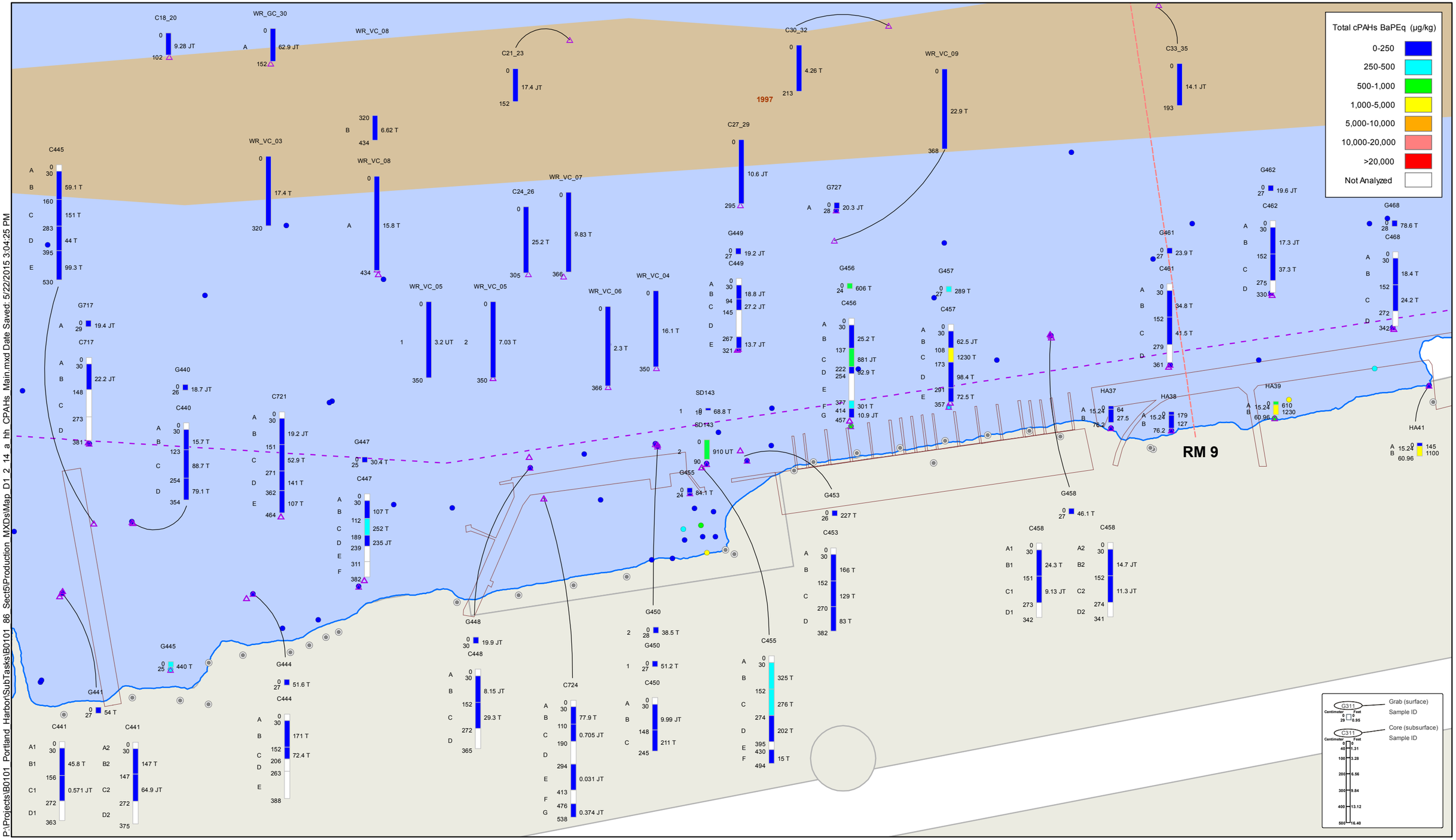
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14u

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 8 to 8.5



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FEATURE SOURCES:
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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

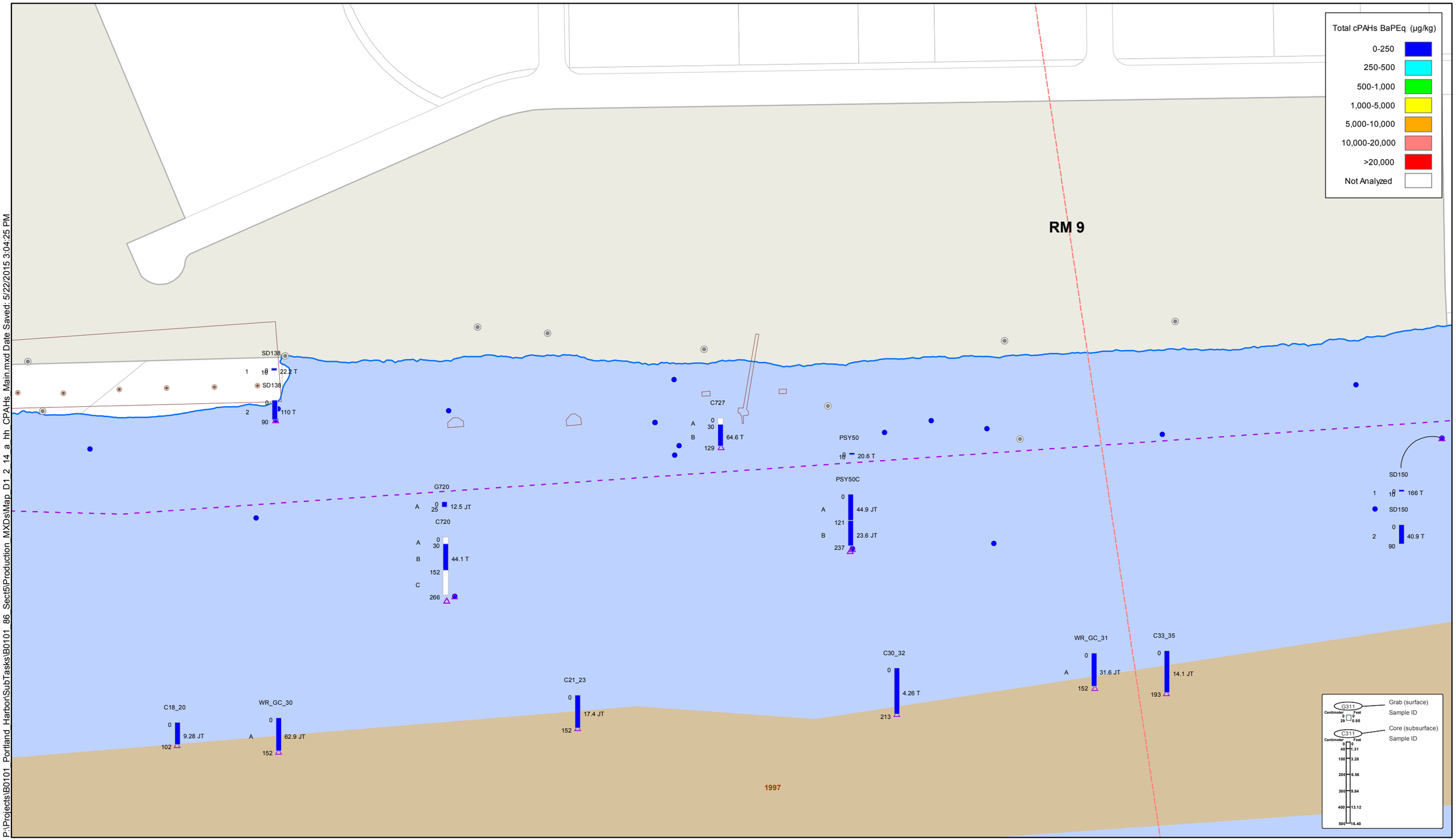
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14v

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 8.5 to 9



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

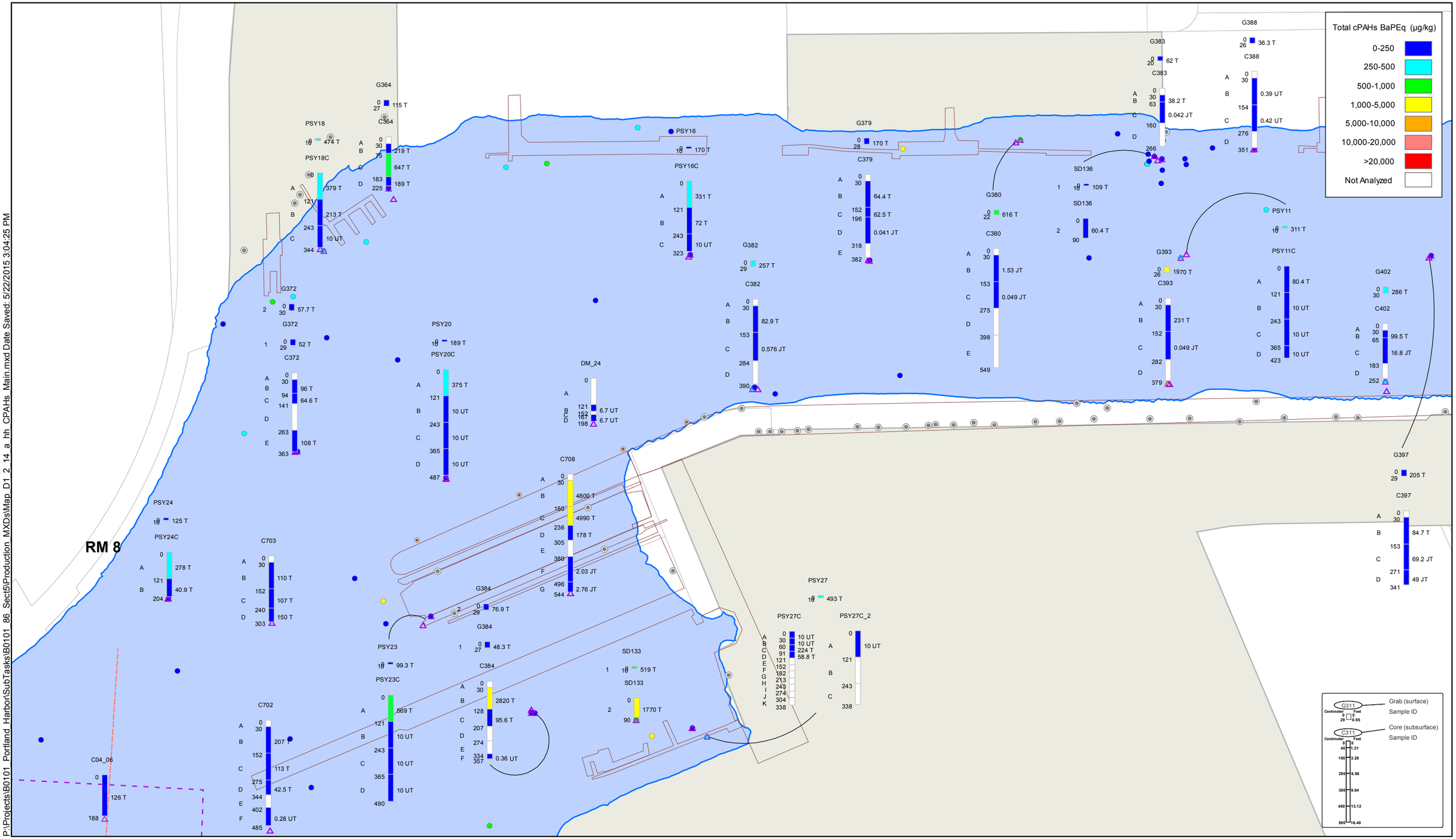
J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14w

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 8.5 to 9

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_14_a_hh_CPAHs_Main.mxd Date Saved: 5/22/2015 3:04:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
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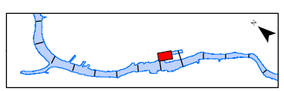
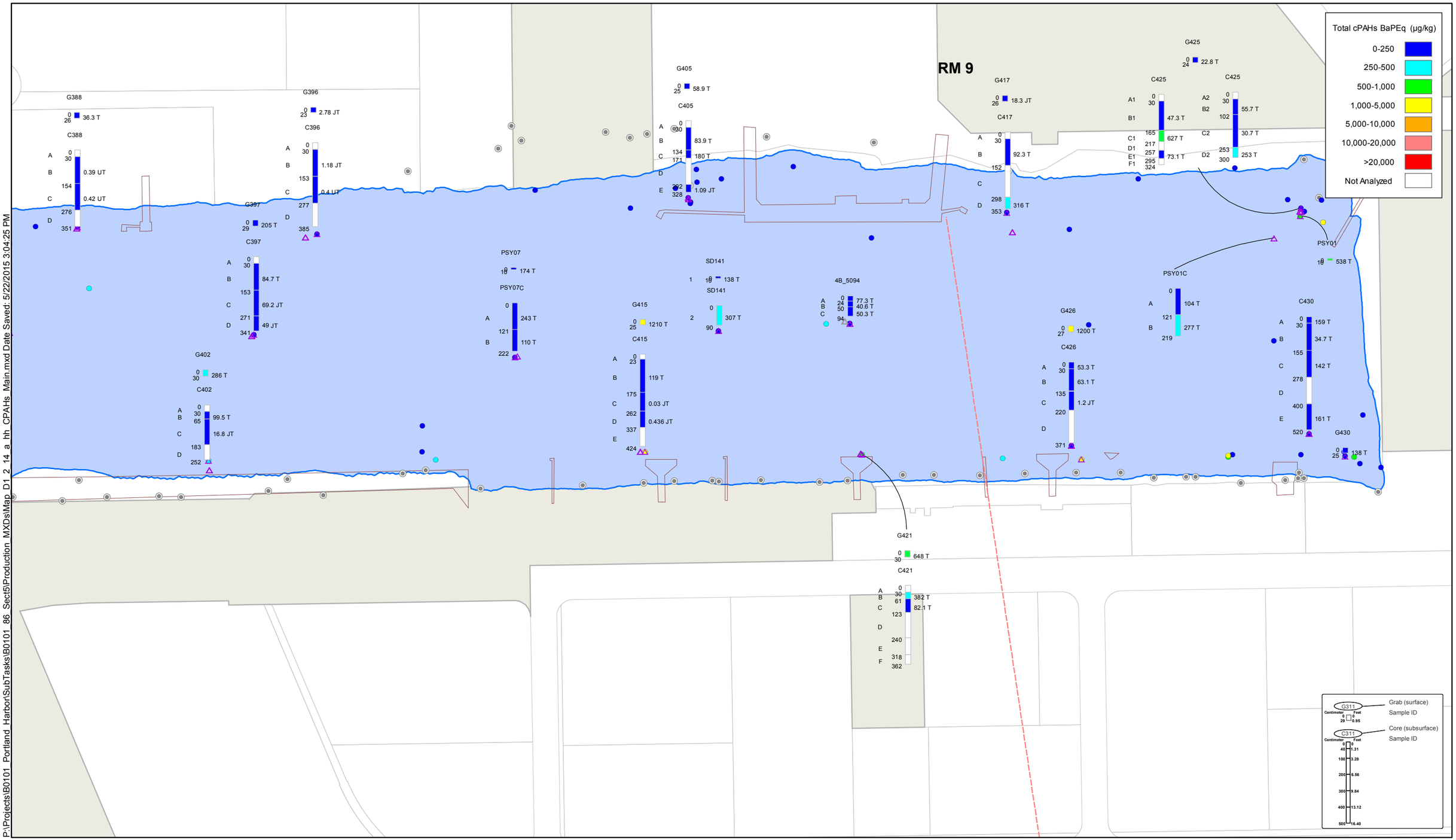


Map D1.2-14x

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 8 to 8.5 Swan Island Lagoon



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FEATURE SOURCES:
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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
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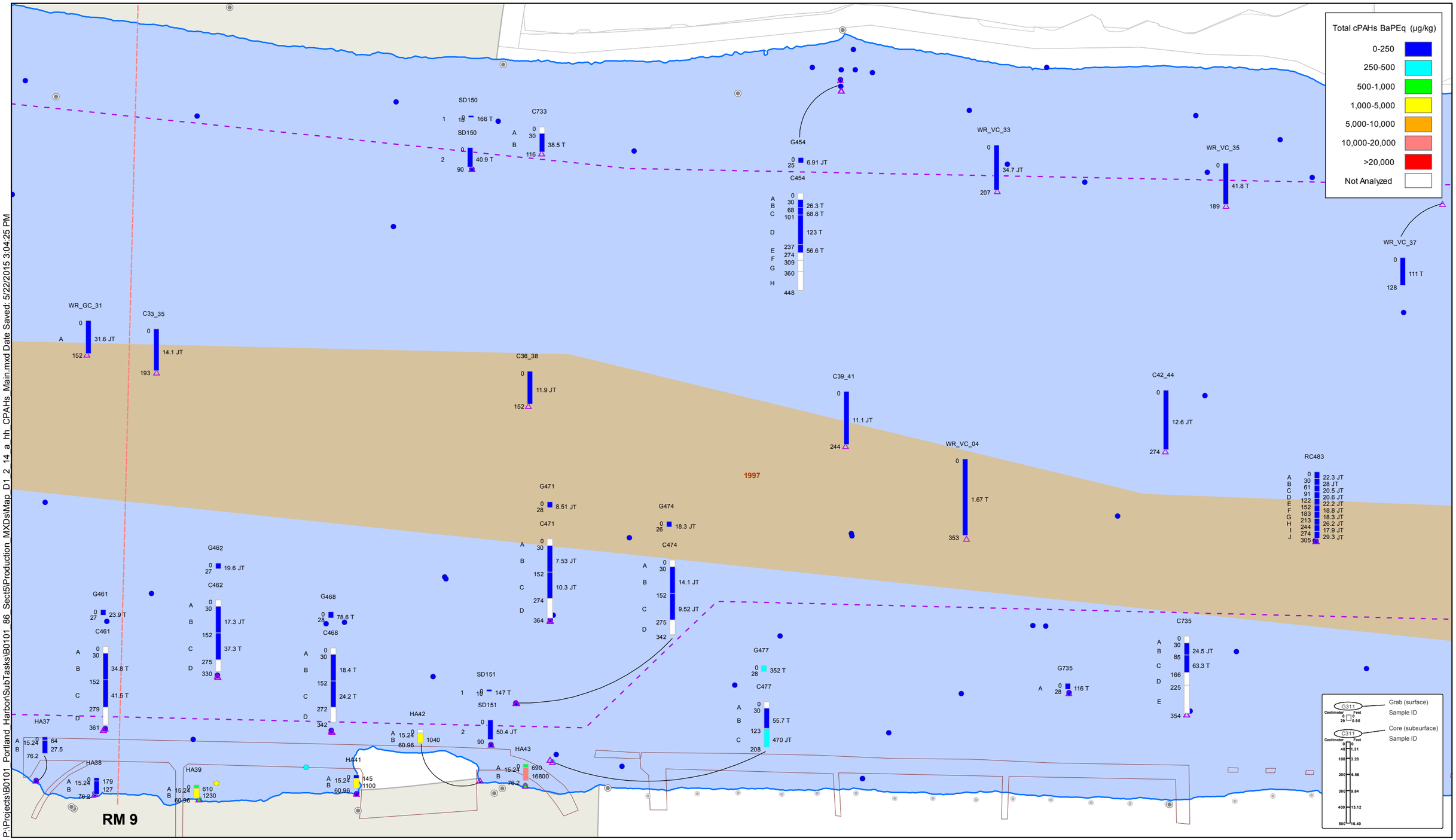
U = Analyte was analyzed for but not detected

Map D1.2-14y

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 8.5 to 9 Swan Island Lagoon



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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
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Map D1.2-14z

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 9 to 9.5

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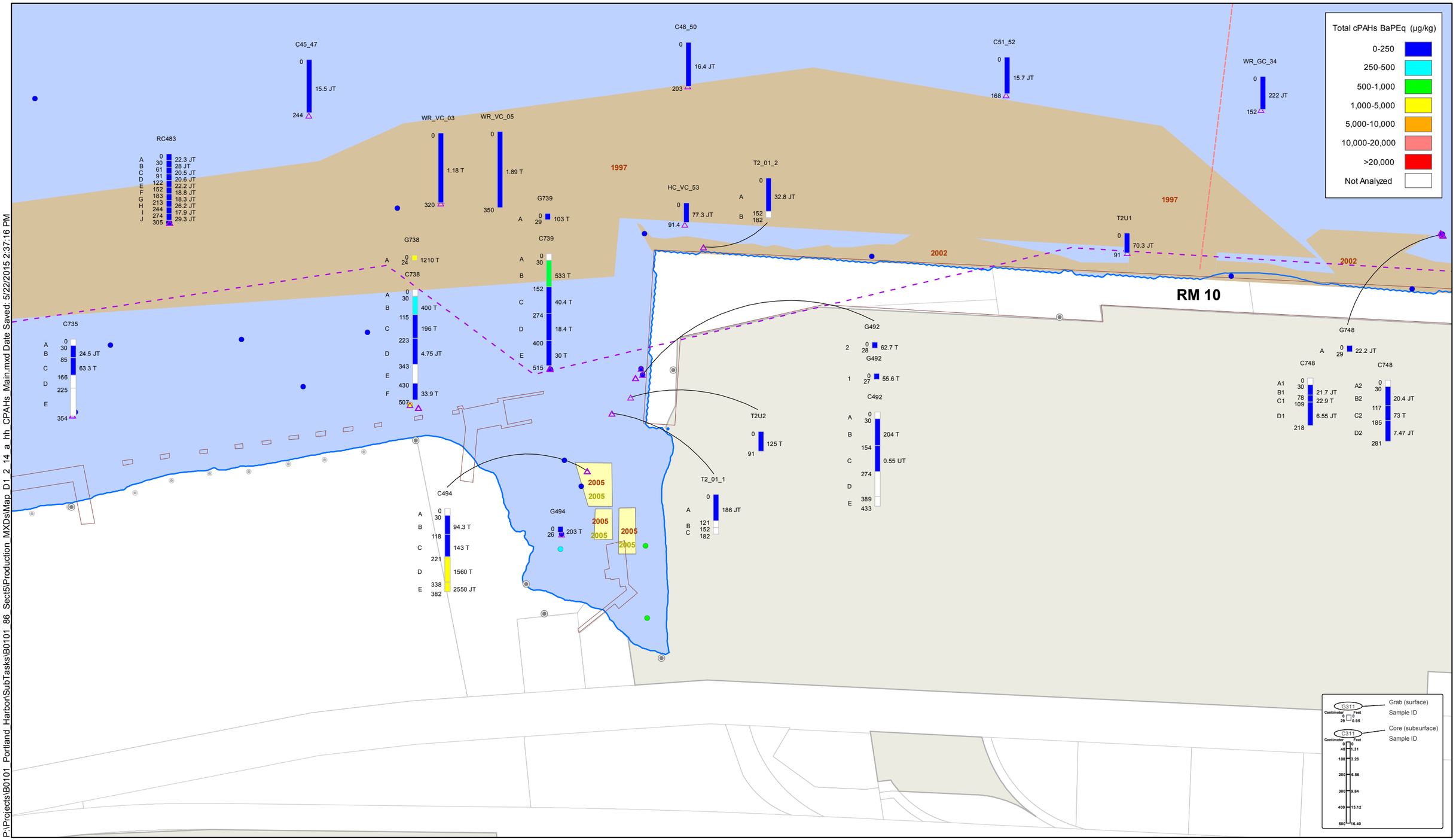

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
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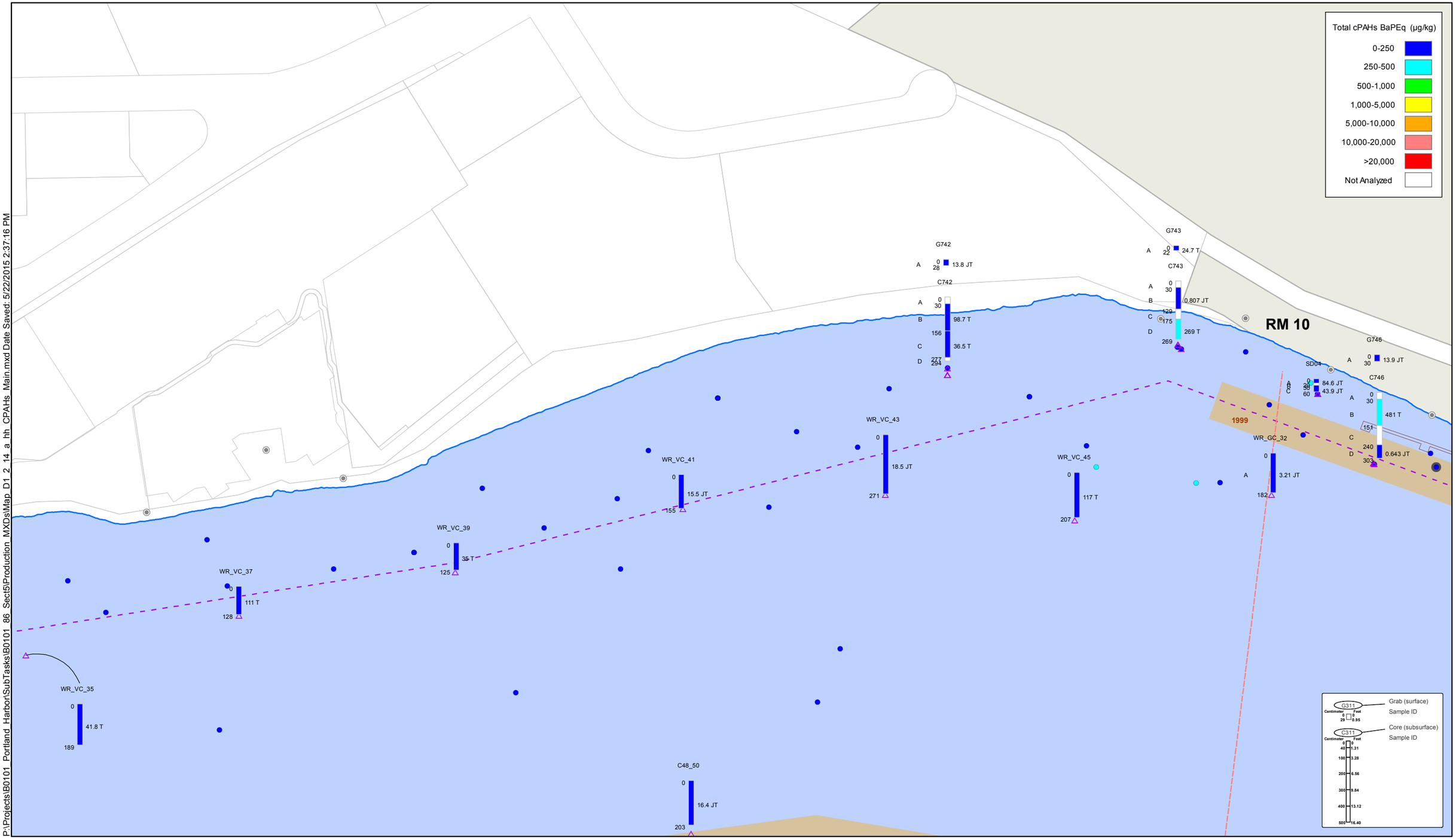
Map D1.2-14aa

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 9.5 to 10



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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

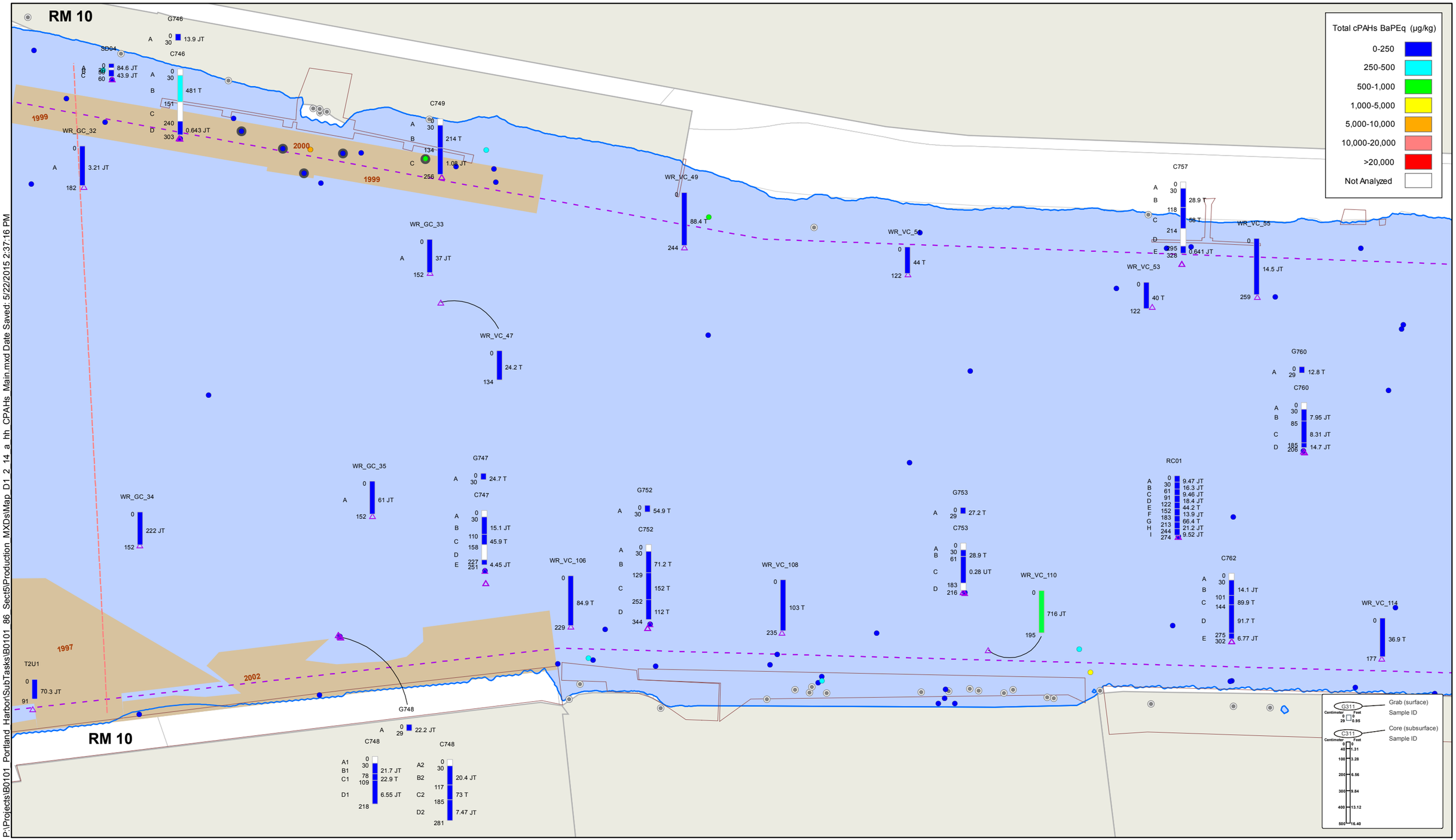
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14bb

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 9.5 to 10



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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features
- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

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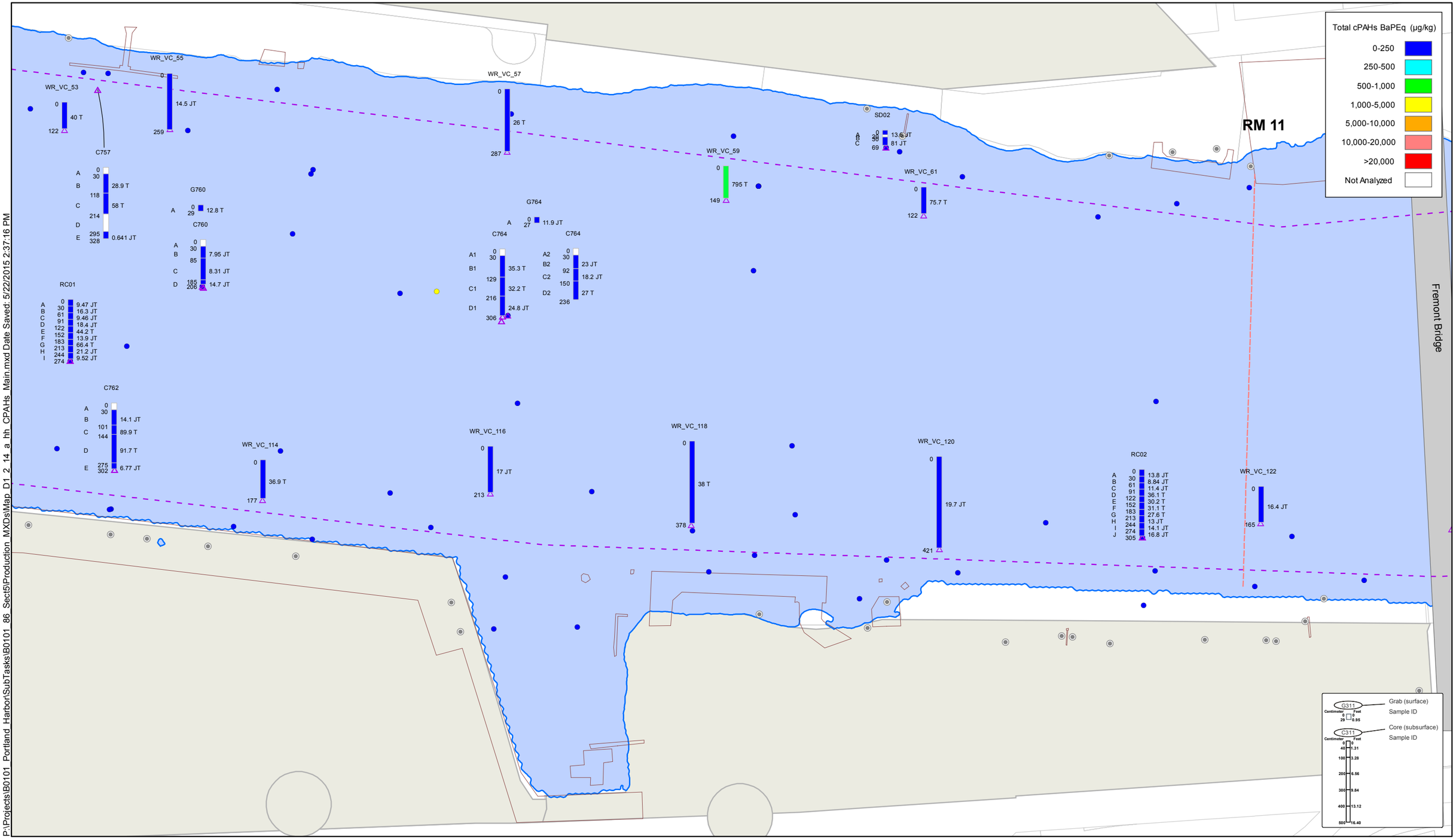
Map D1.2-14cc
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 10 to 10.5

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_14_a_hh_CPAHs_Main.mxd Date Saved: 5/22/2015 2:37:16 PM



FEATURE SOURCES:
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N

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

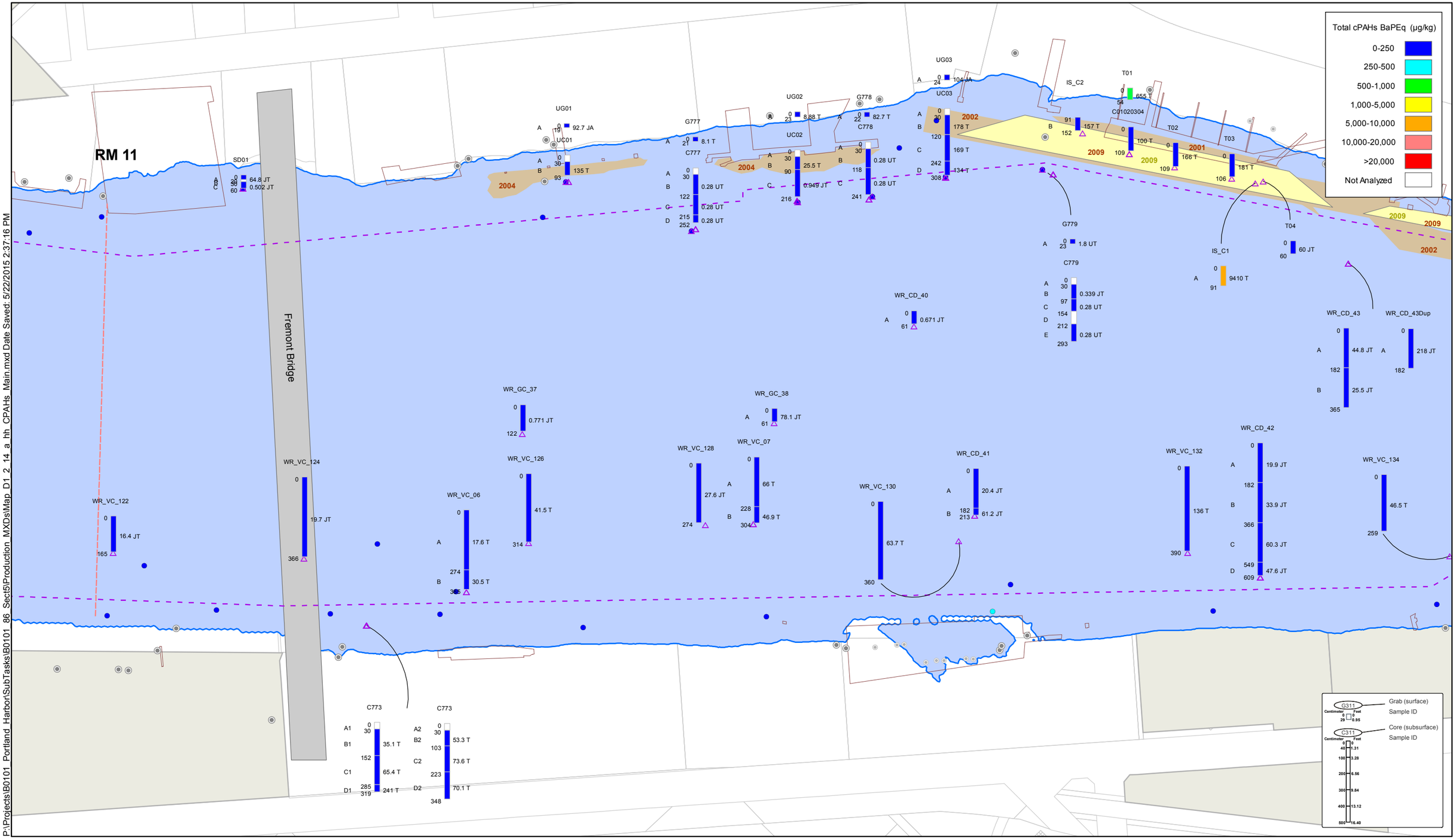
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14dd

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 10.5 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

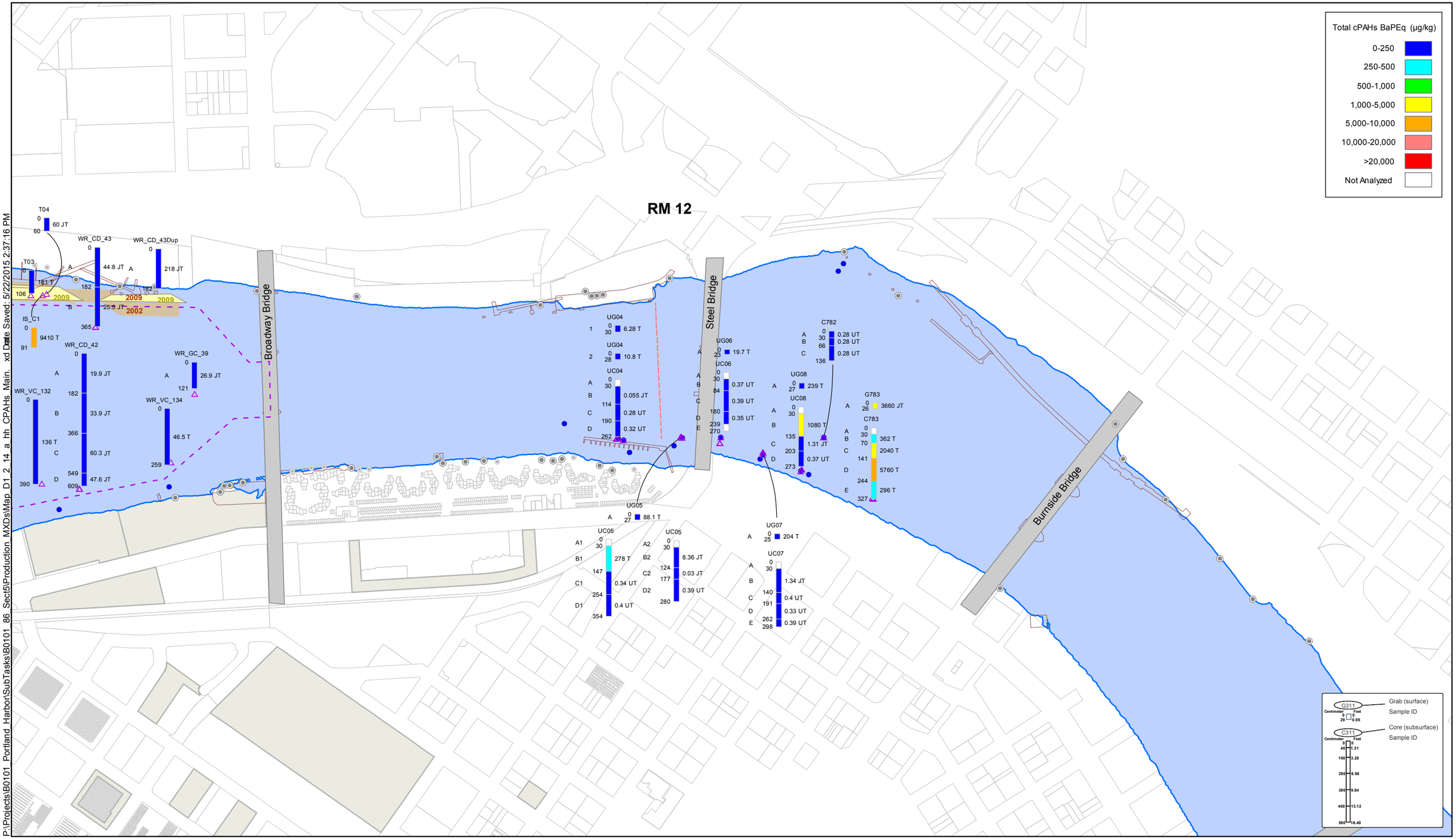
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

A = Summed value based on limited number of analytes
J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14ee

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 11 to 11.5



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features

- River Miles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations Analyzed for CPAHs
- Core Locations Not Analyzed for CPAHs
- Capping Areas
- Dredging Areas
- Future Dredging Areas

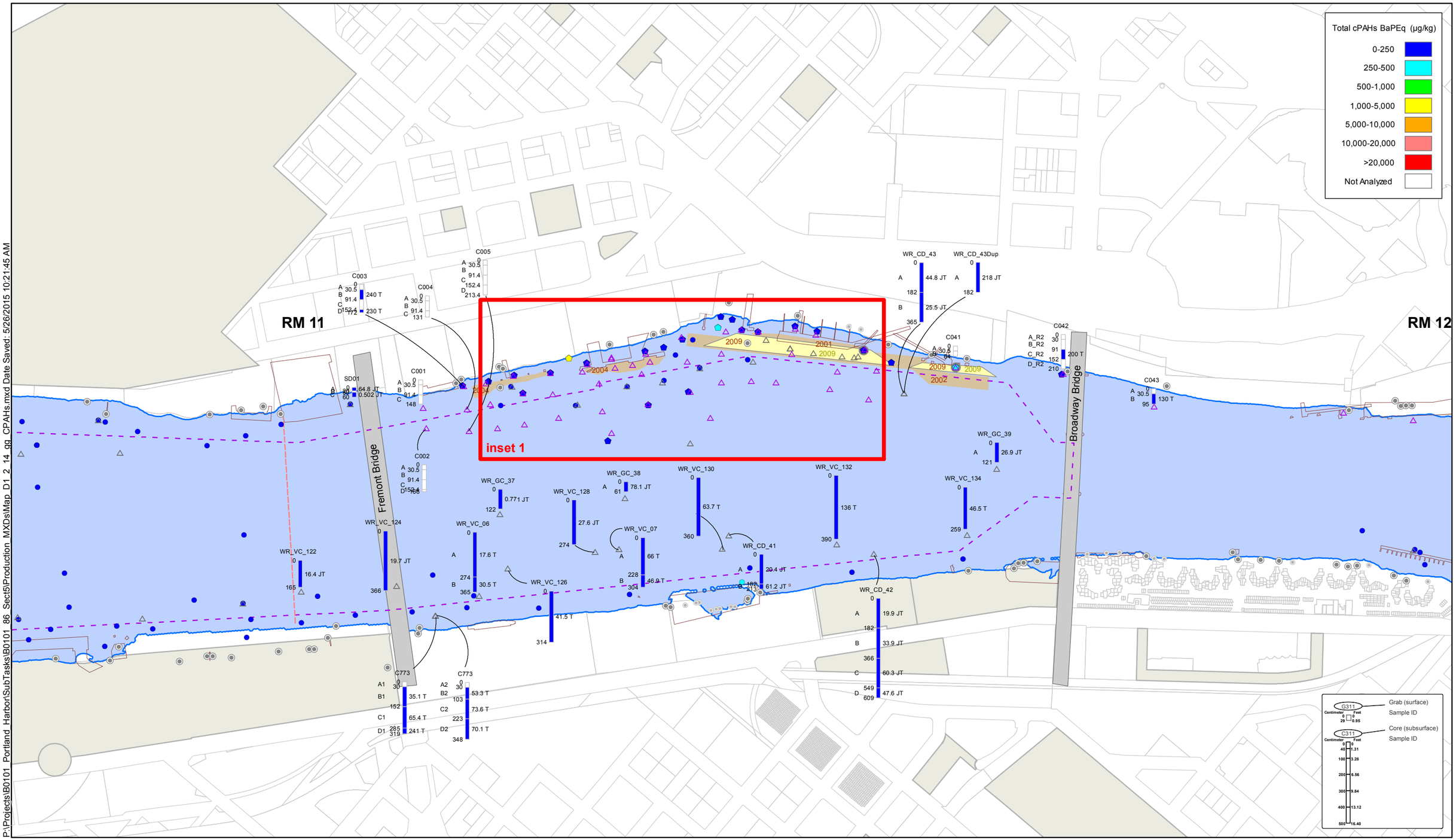
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

J = Estimated value
T = Result derived or selected from >1 reported value
U = Analyte was analyzed for but not detected

Map D1.2-14ff

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 11.5 to 12.5



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-14gg
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 11.0 - 11.8

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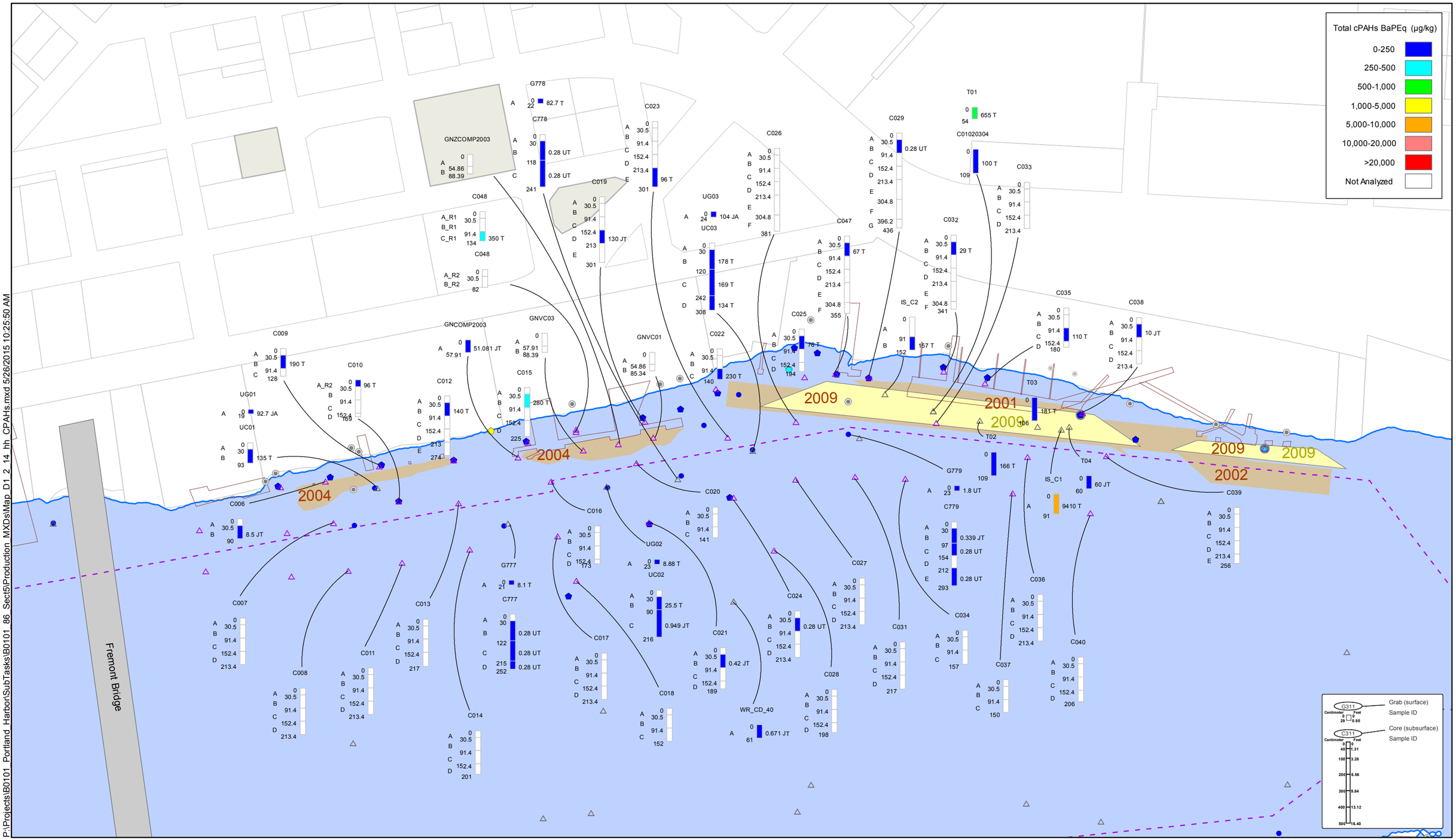


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

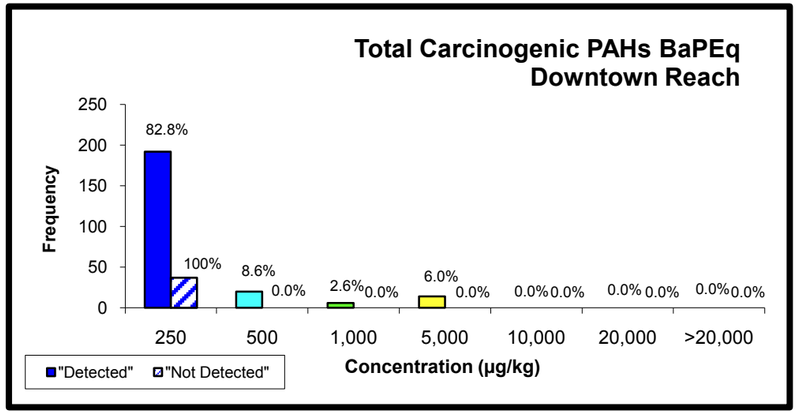
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

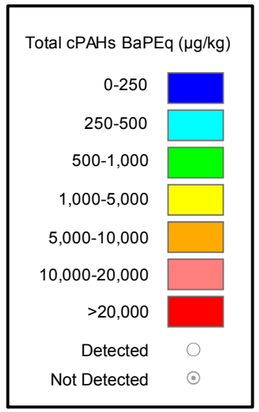
Outfalls
- Outfall
- Dock Drain
- Roof Drain

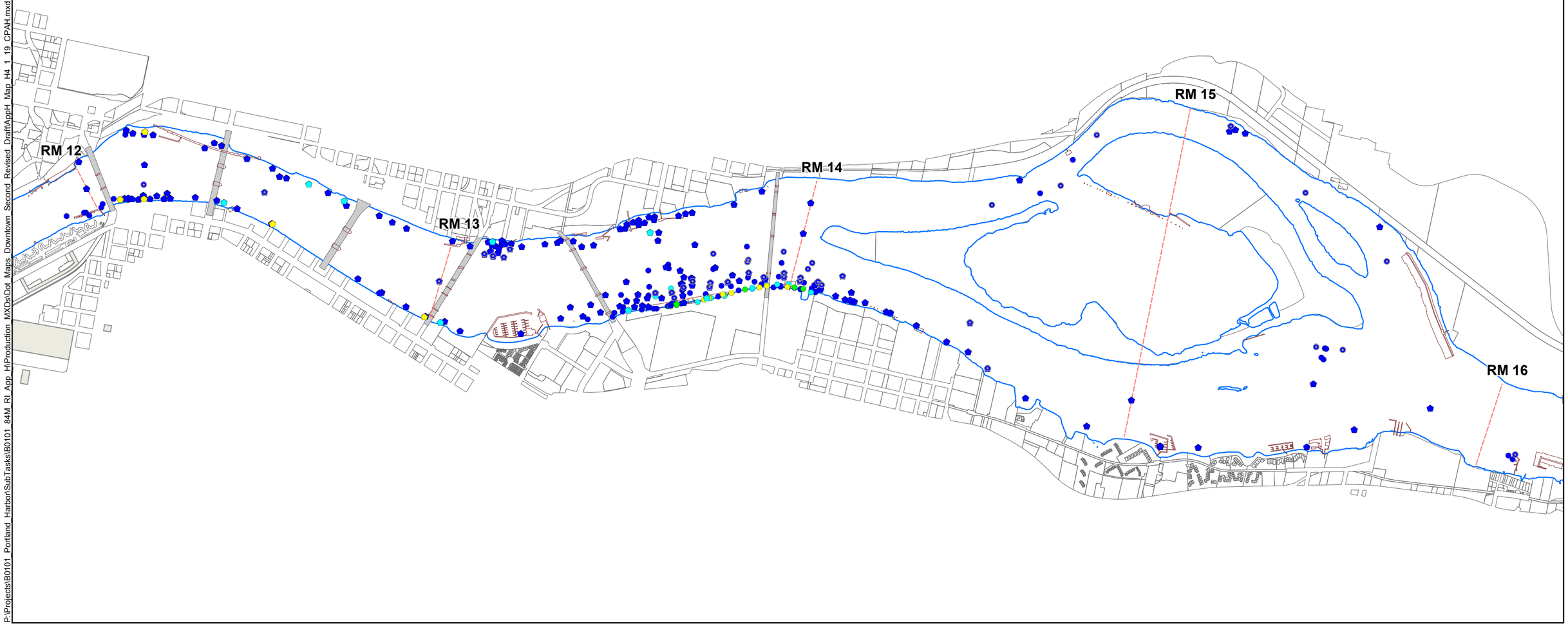
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-14hh
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)

River Mile 11.0 - 11.8 - Inset 1







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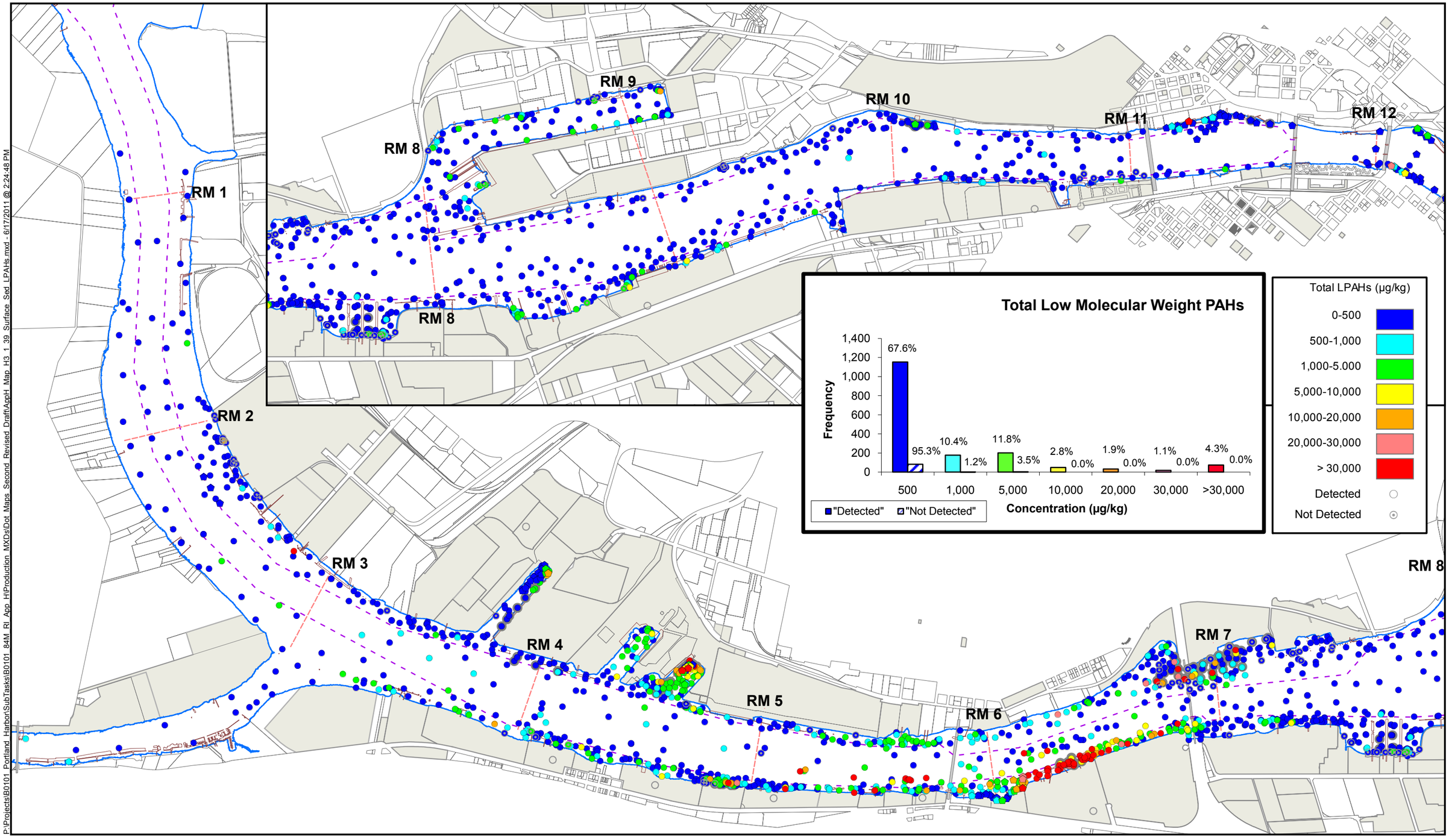
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-15
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Carcinogenic PAHs BaPEq (µg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

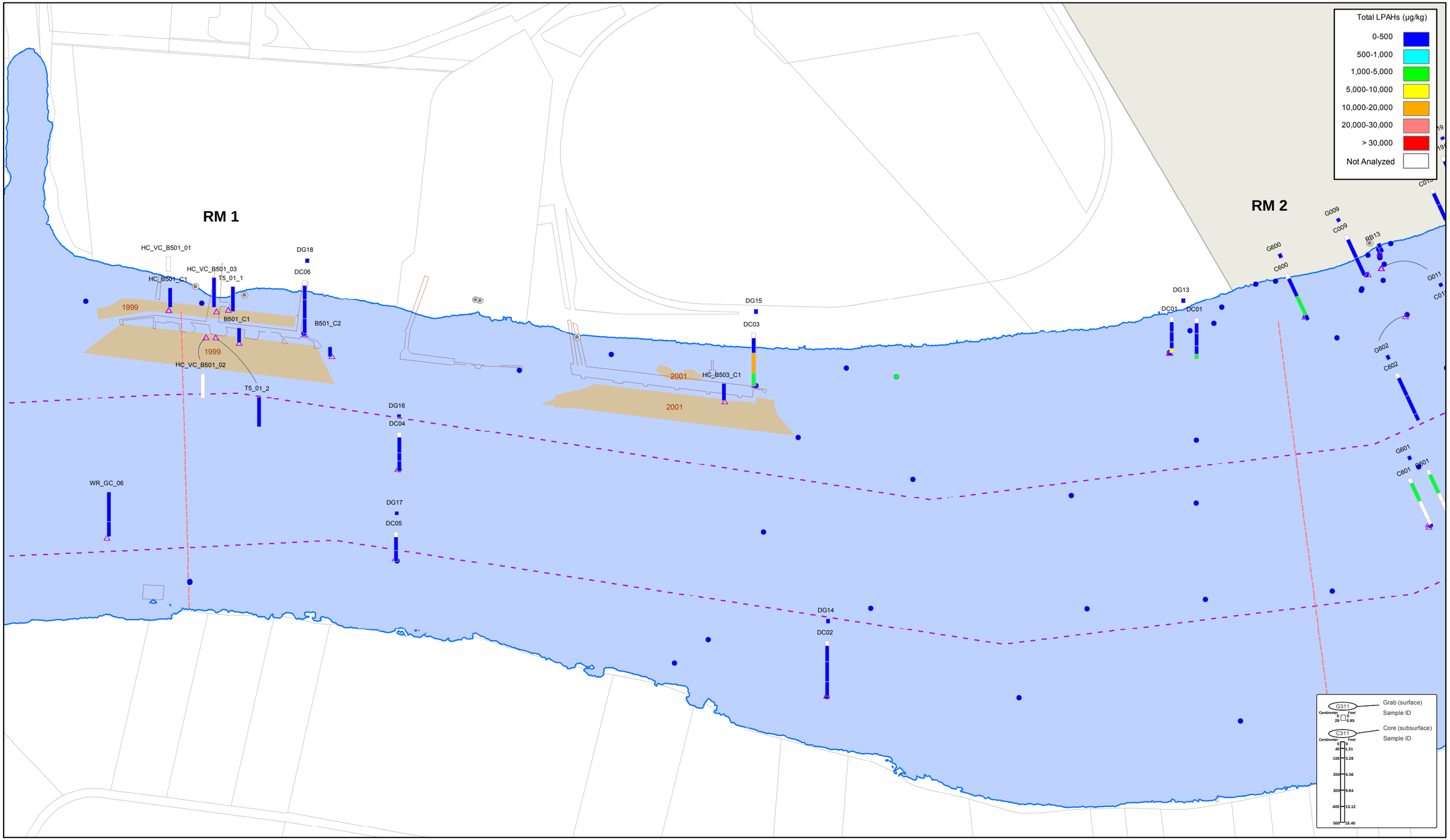
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-16
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Main.mxd) - 3/6/2009 -- 4:03:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

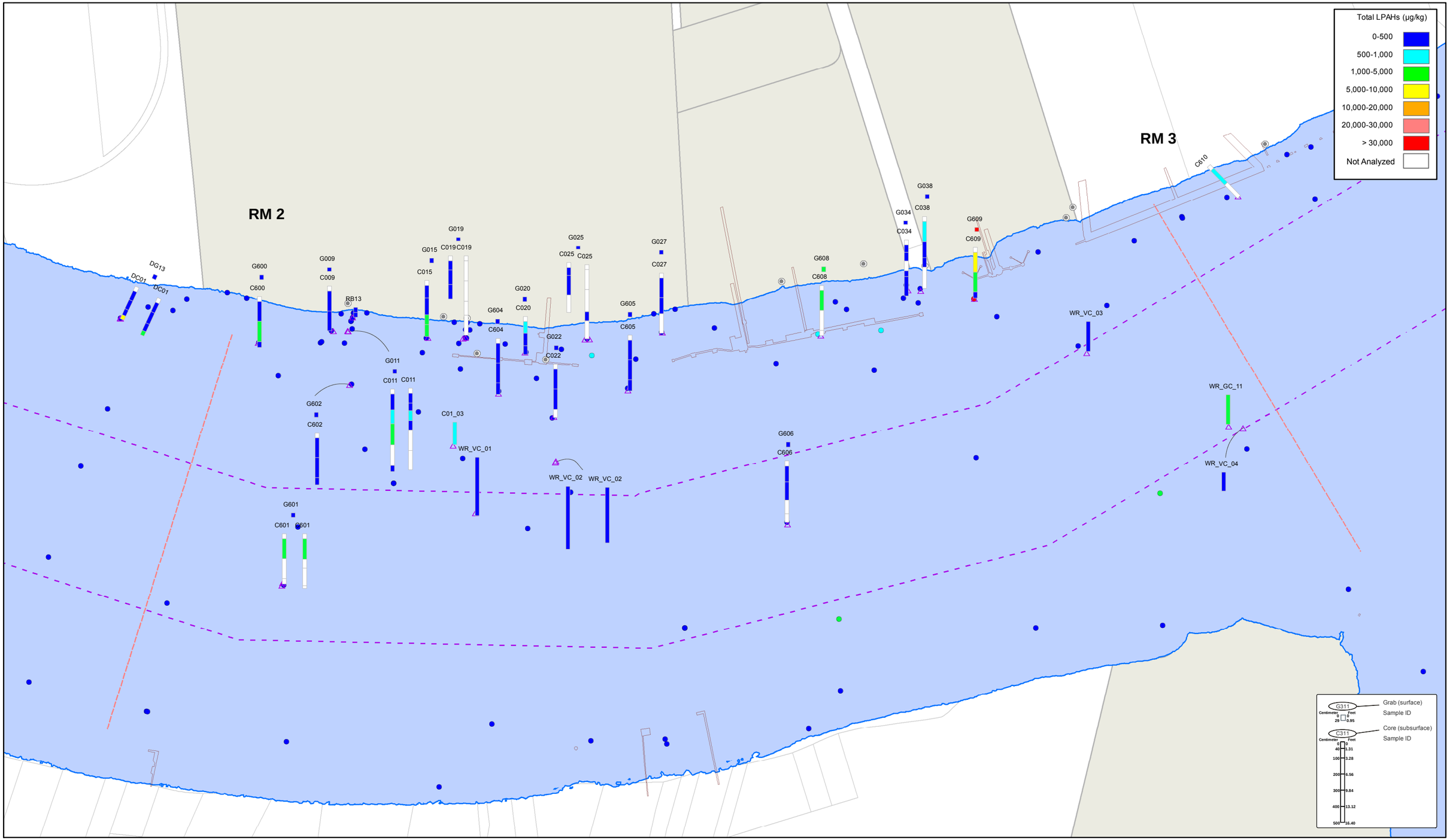
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

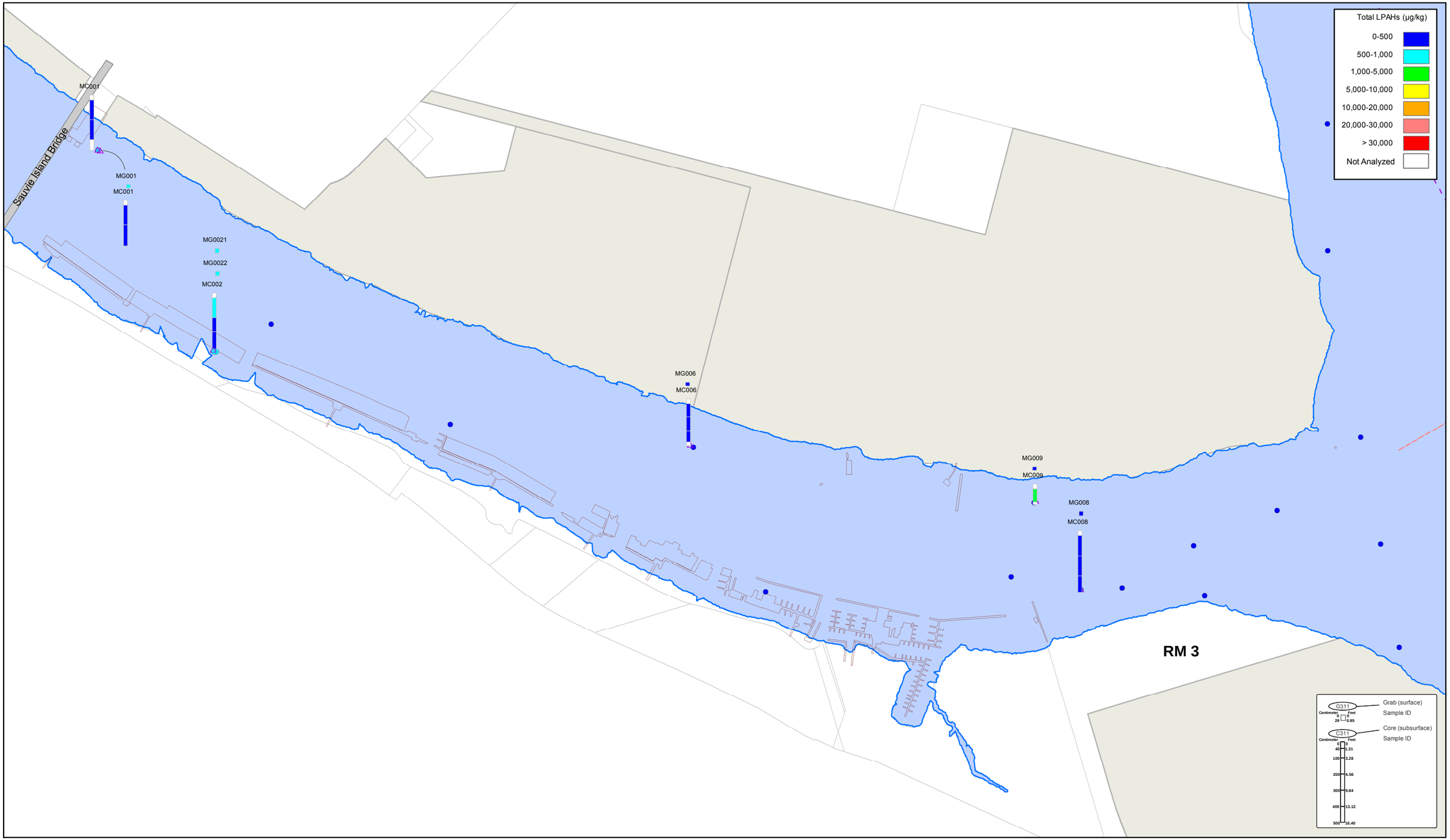
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Main.mxd) - 3/6/2009 -- 4:03:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

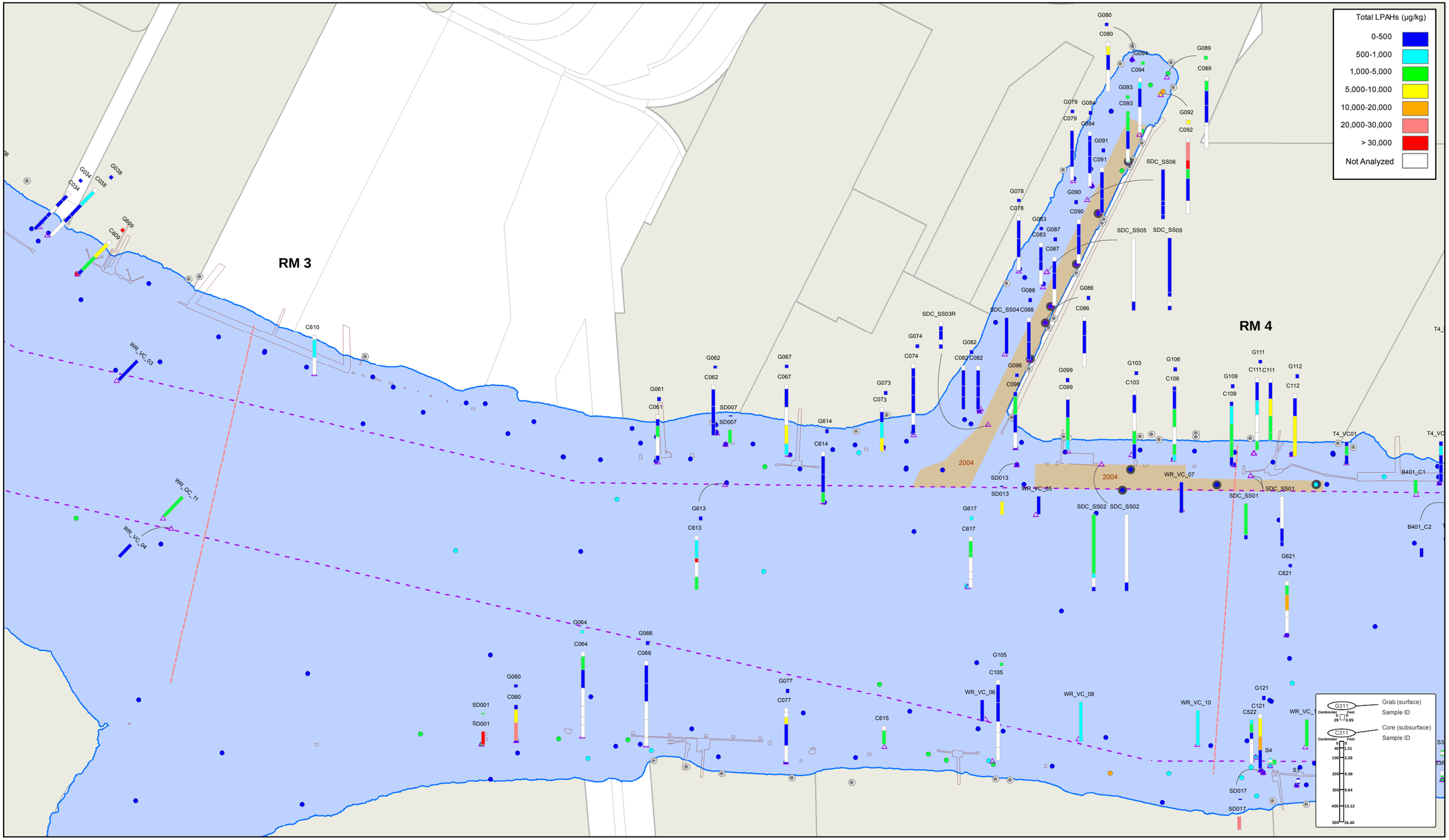
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

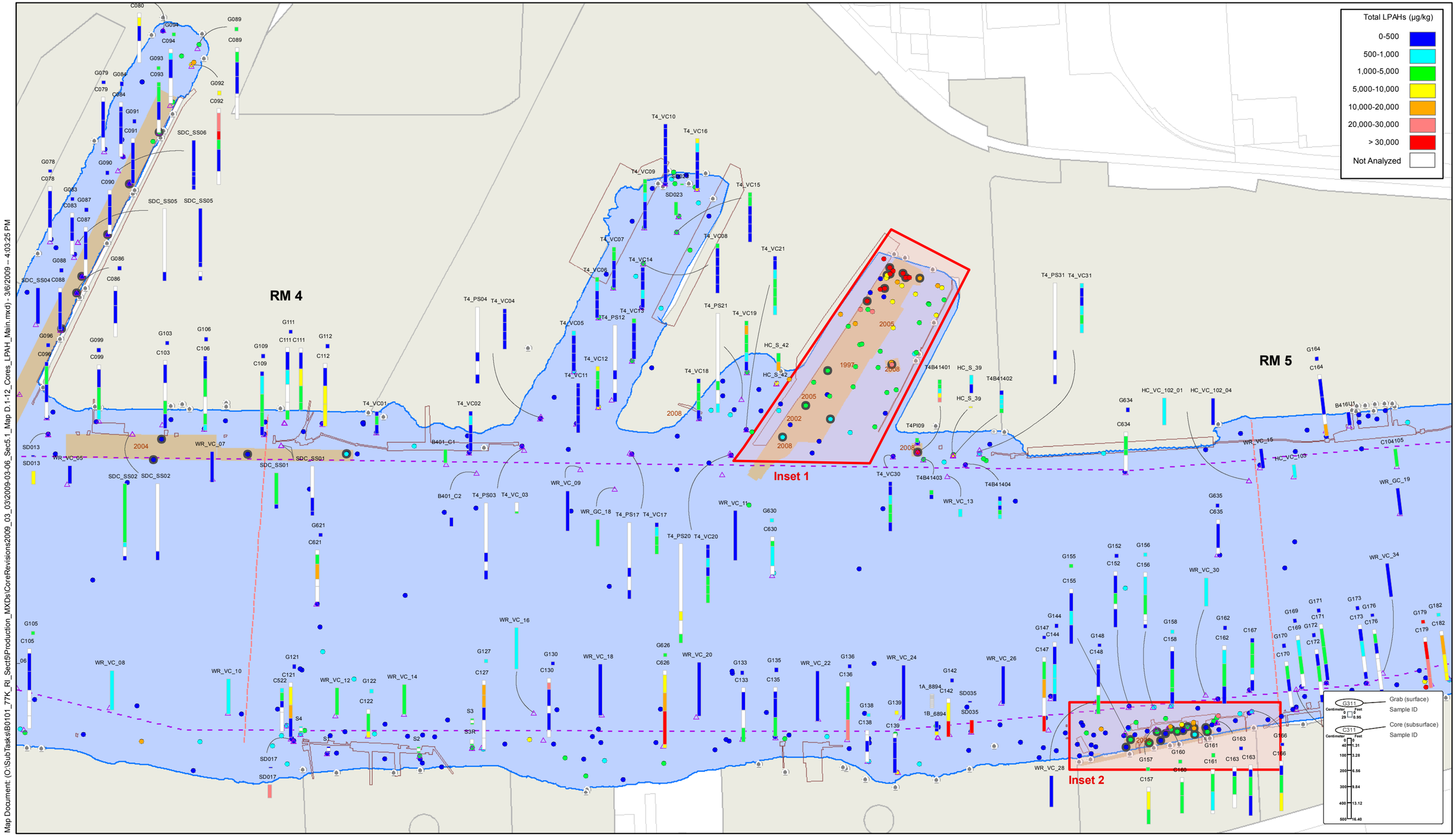
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

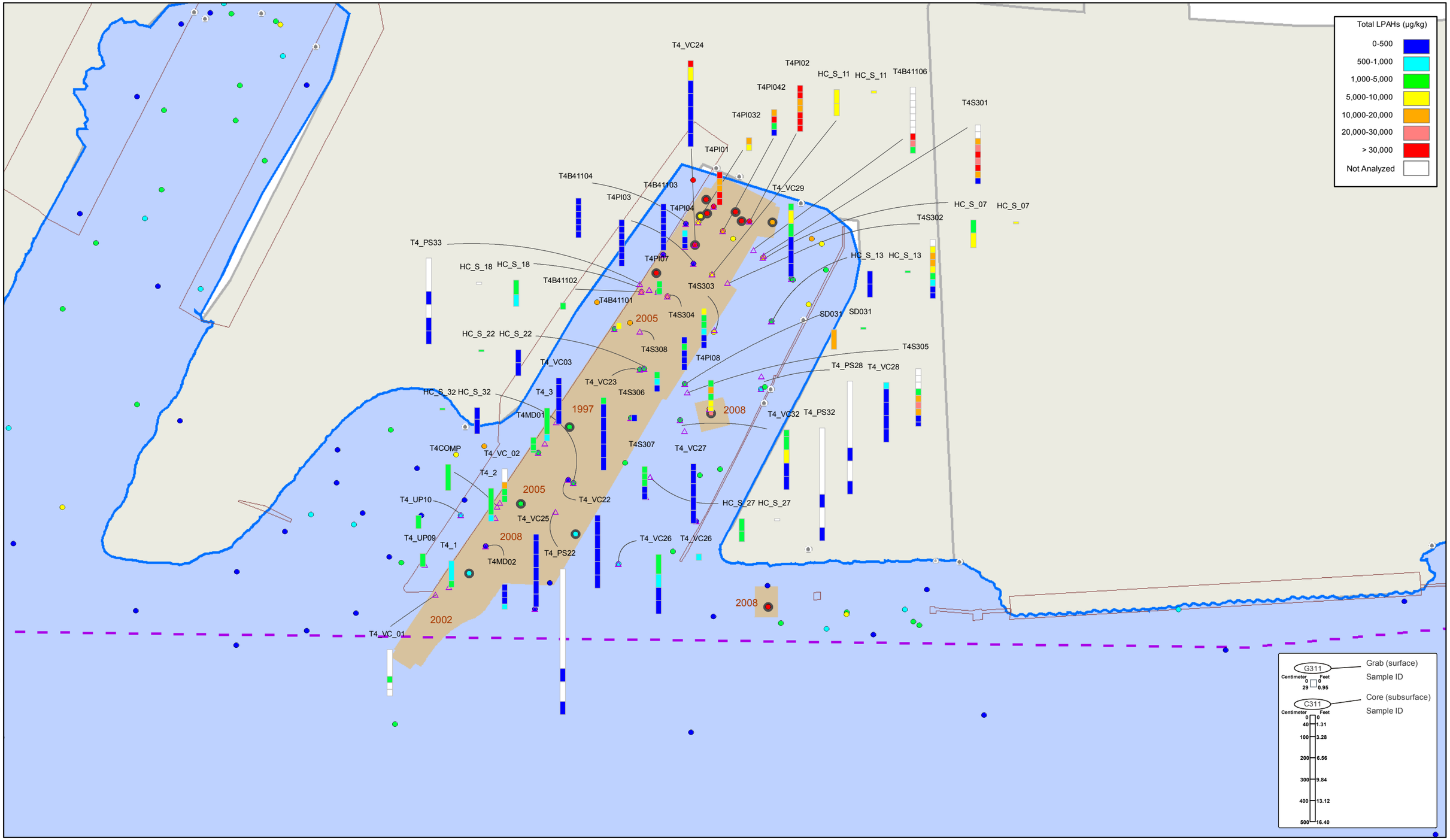
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 04 to 05 - Slips



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

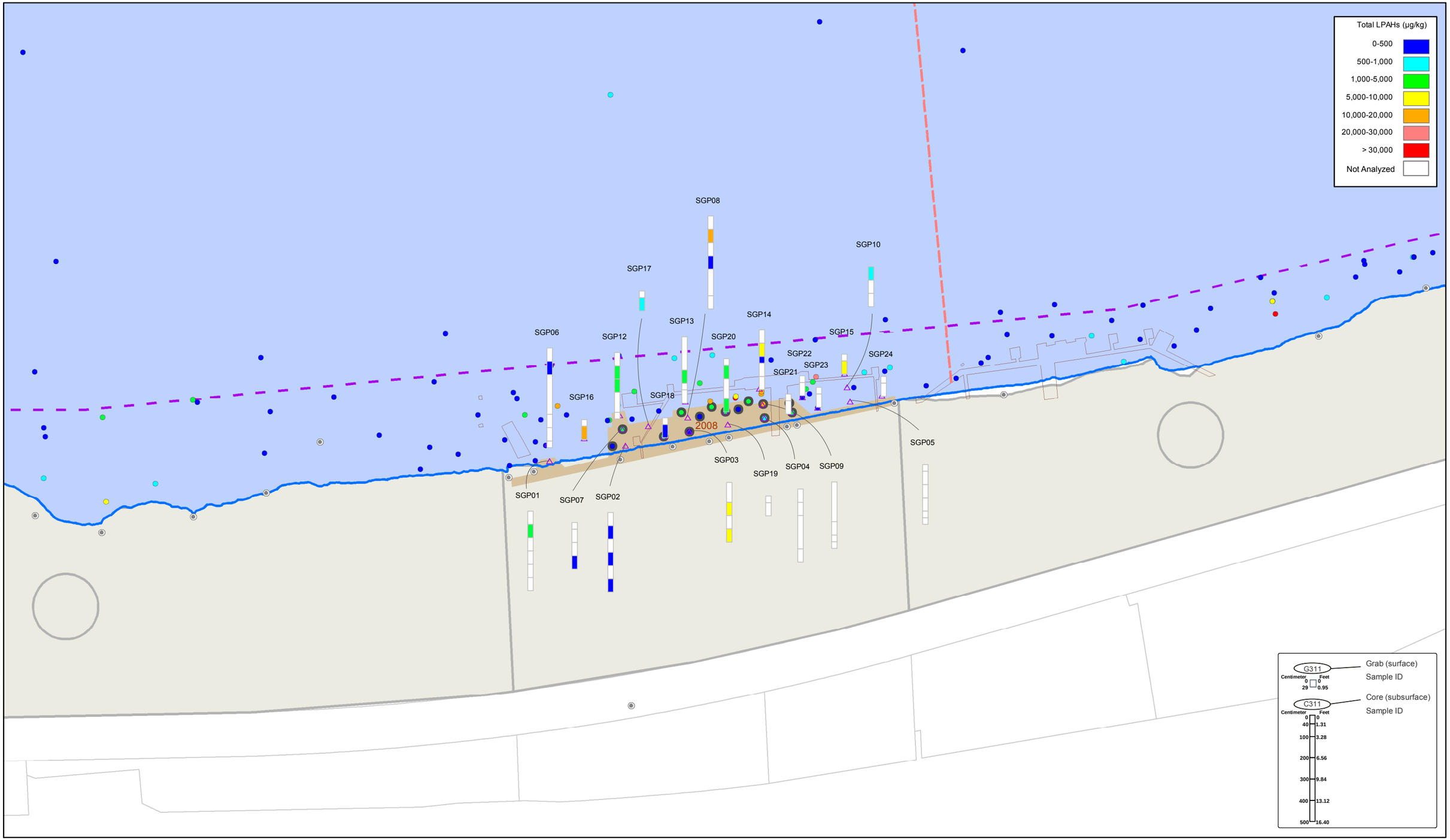
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 04 to 05 - Slips - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Insets.mxd) - 3/6/2009 -- 4:32:46 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

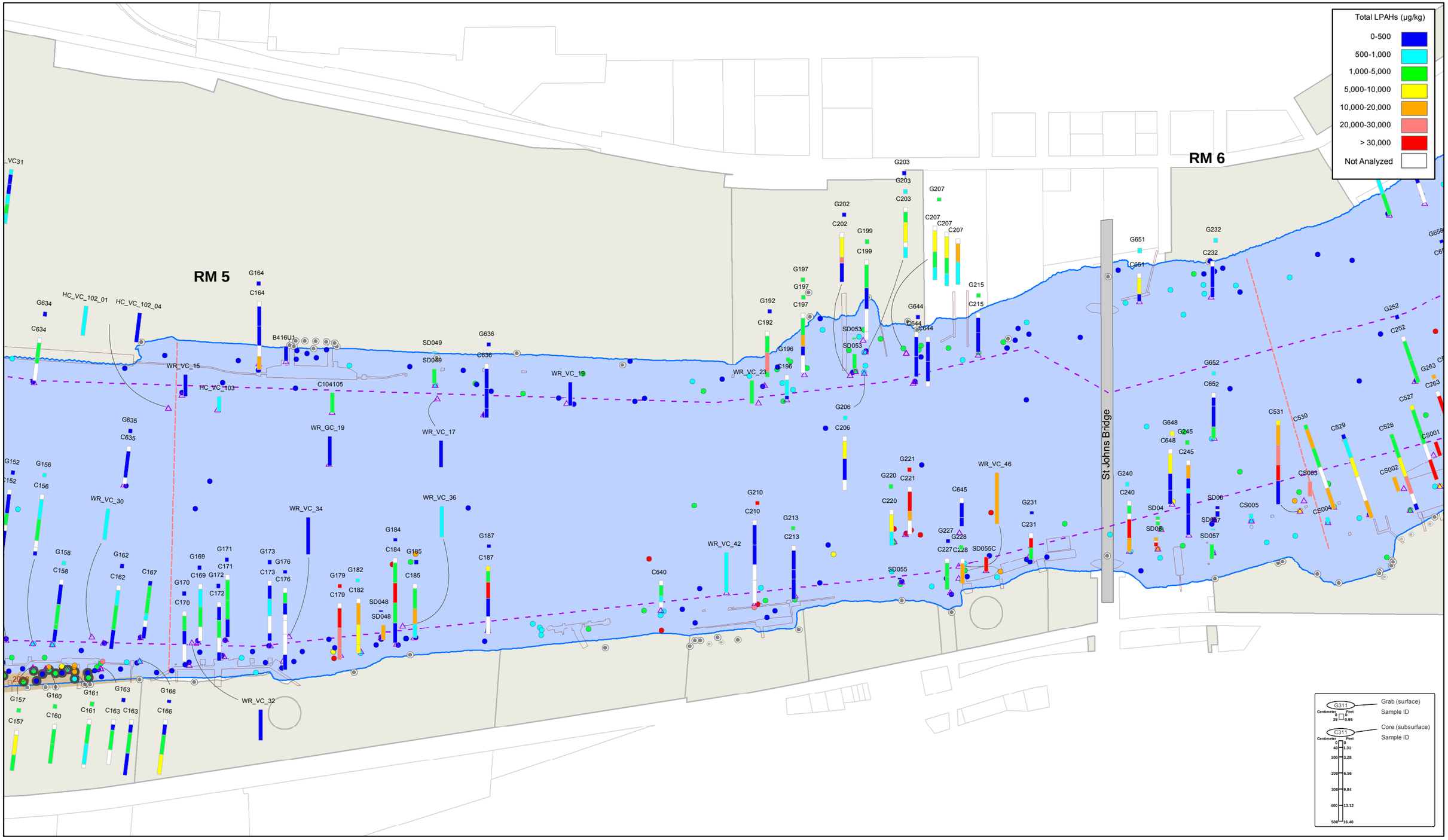
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17 e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

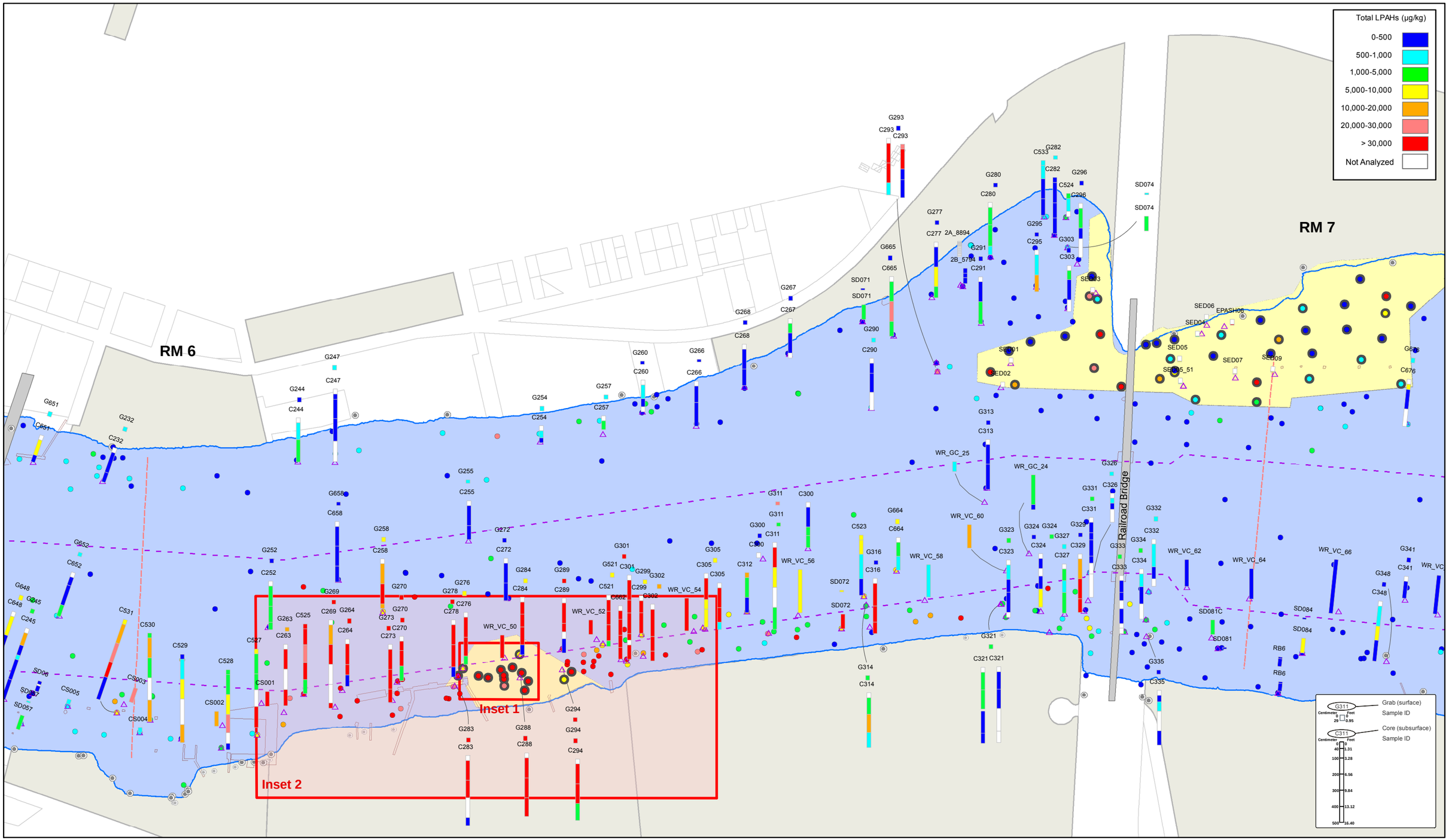
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 05 to 06

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Main.mxd) - 3/6/2009 -- 4:03:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

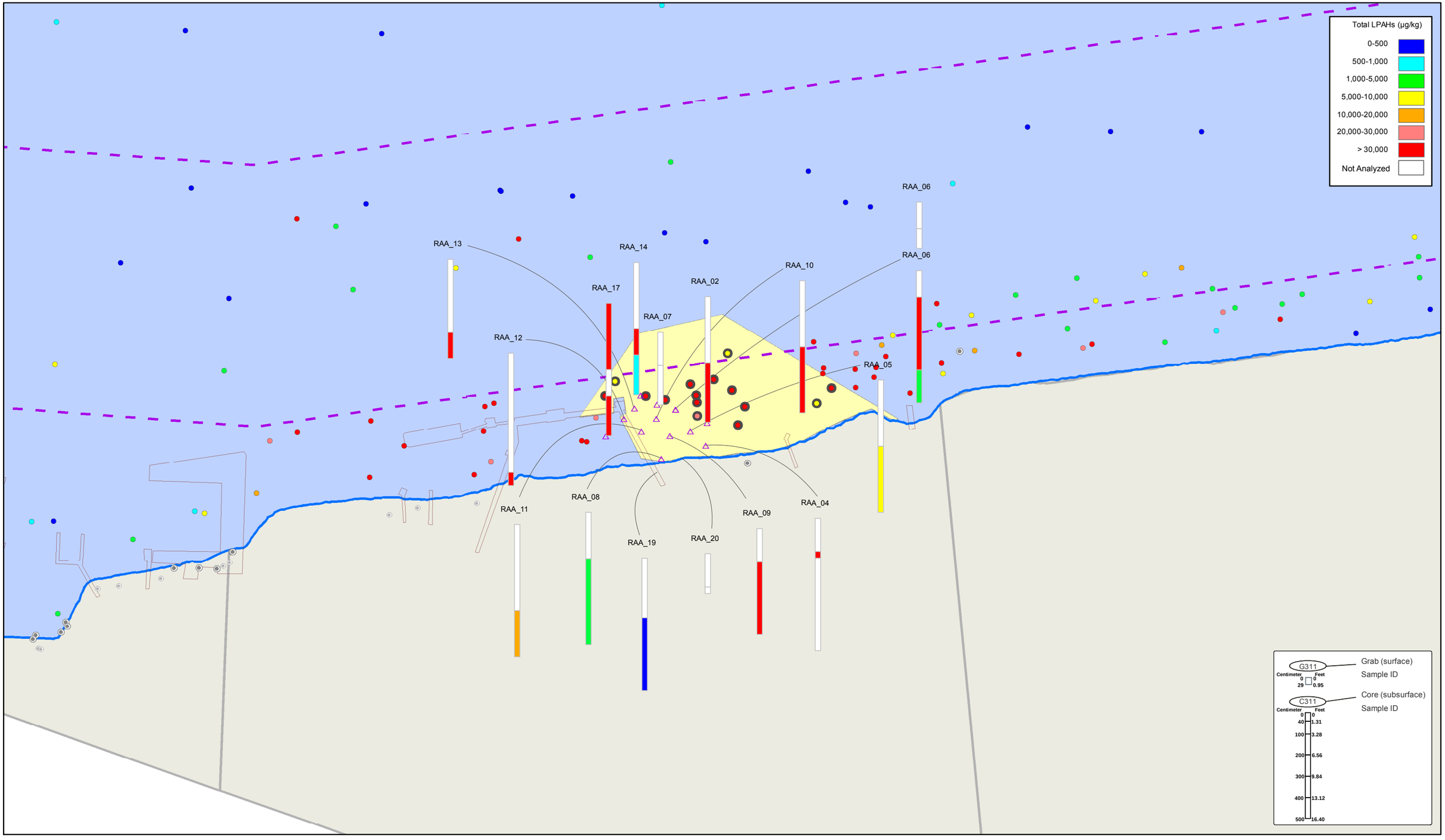
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Insets.mxd) - 3/6/2009 -- 4:32:46 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

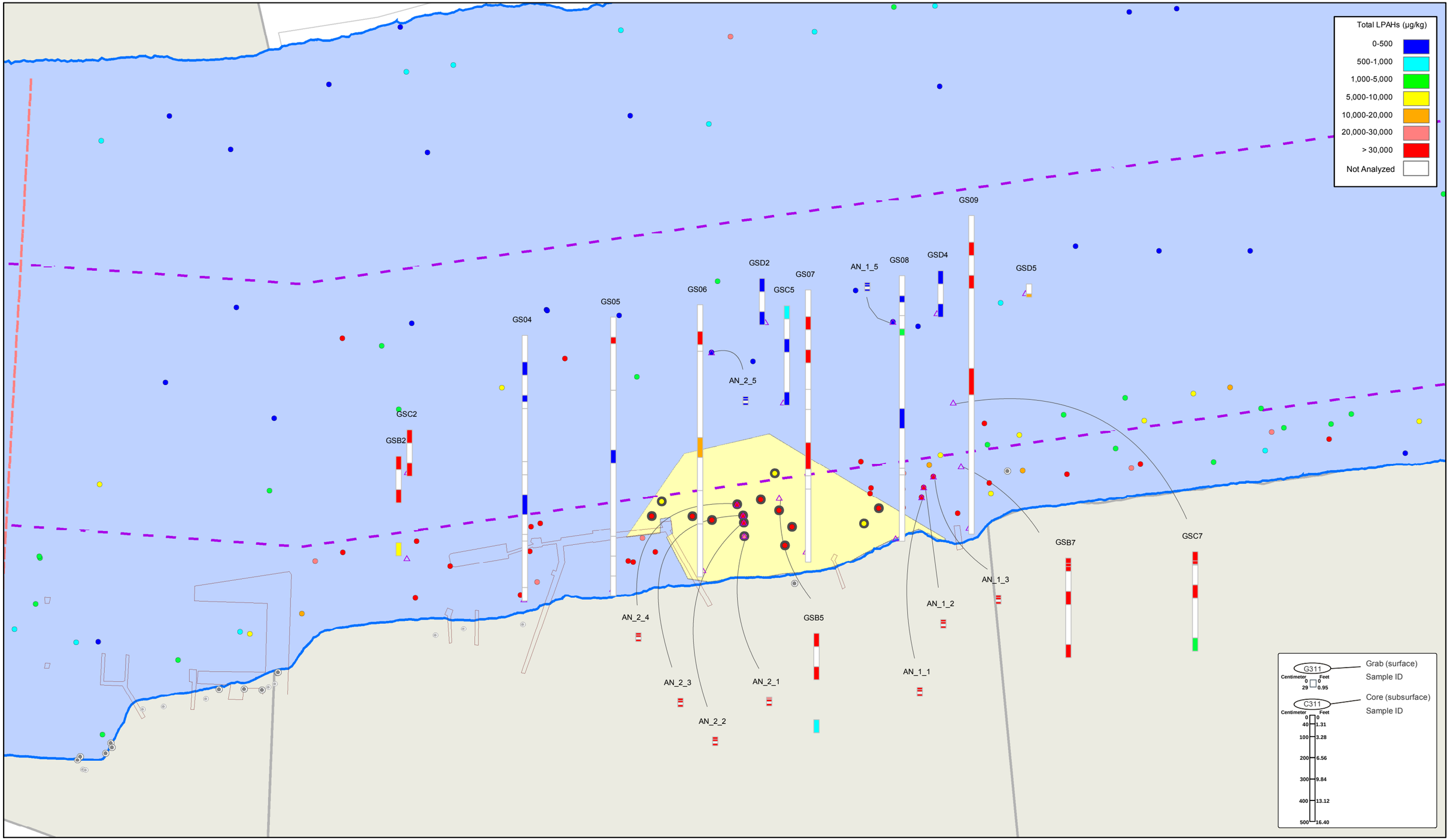
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 06 to 07 - Inset 1



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Insets.mxd) - 3/6/2009 - 4:32:46 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

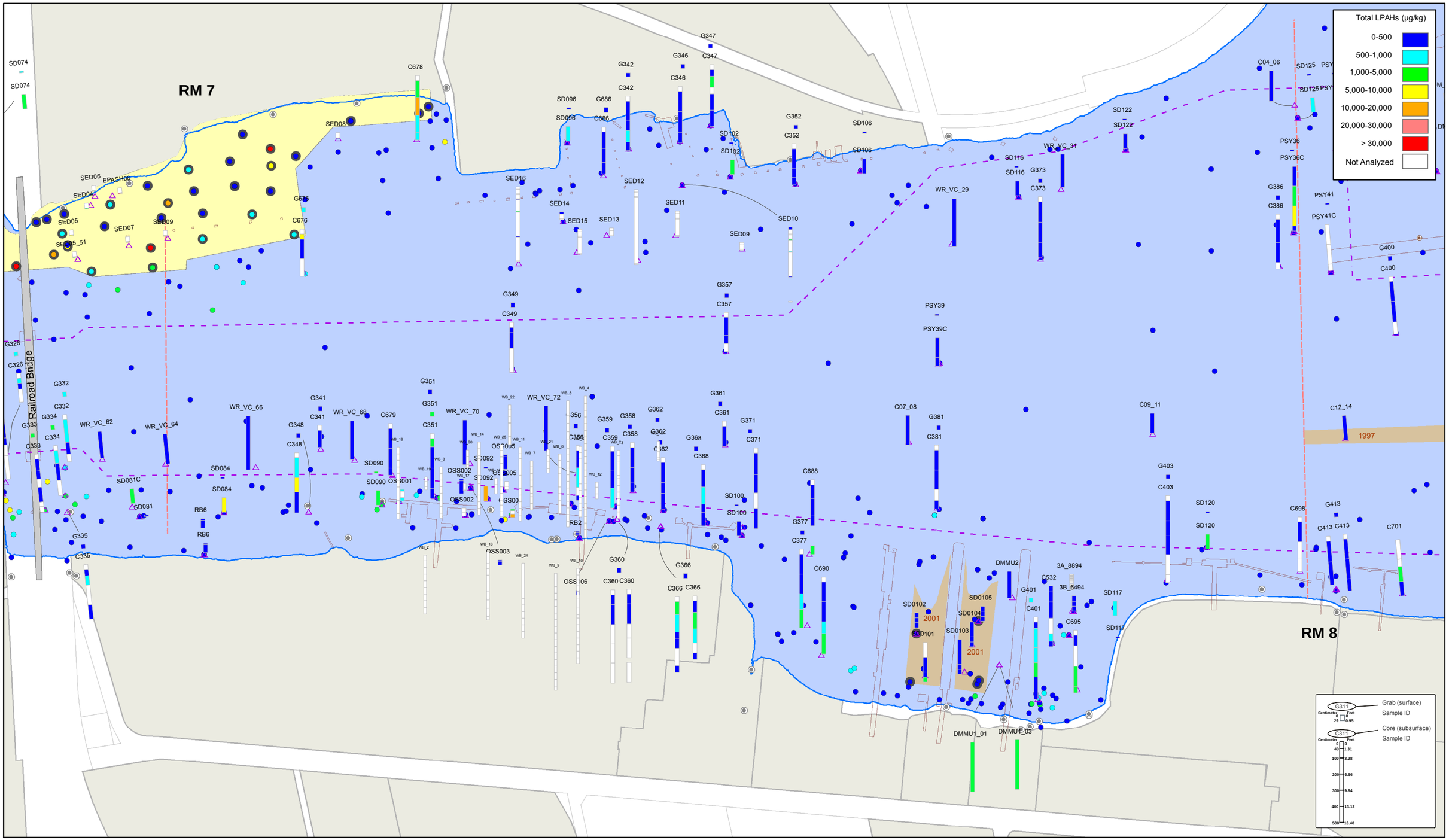
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17 g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 06 to 07 - Inset 2

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Main.mxd) - 3/6/2009 -- 4:03:25 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

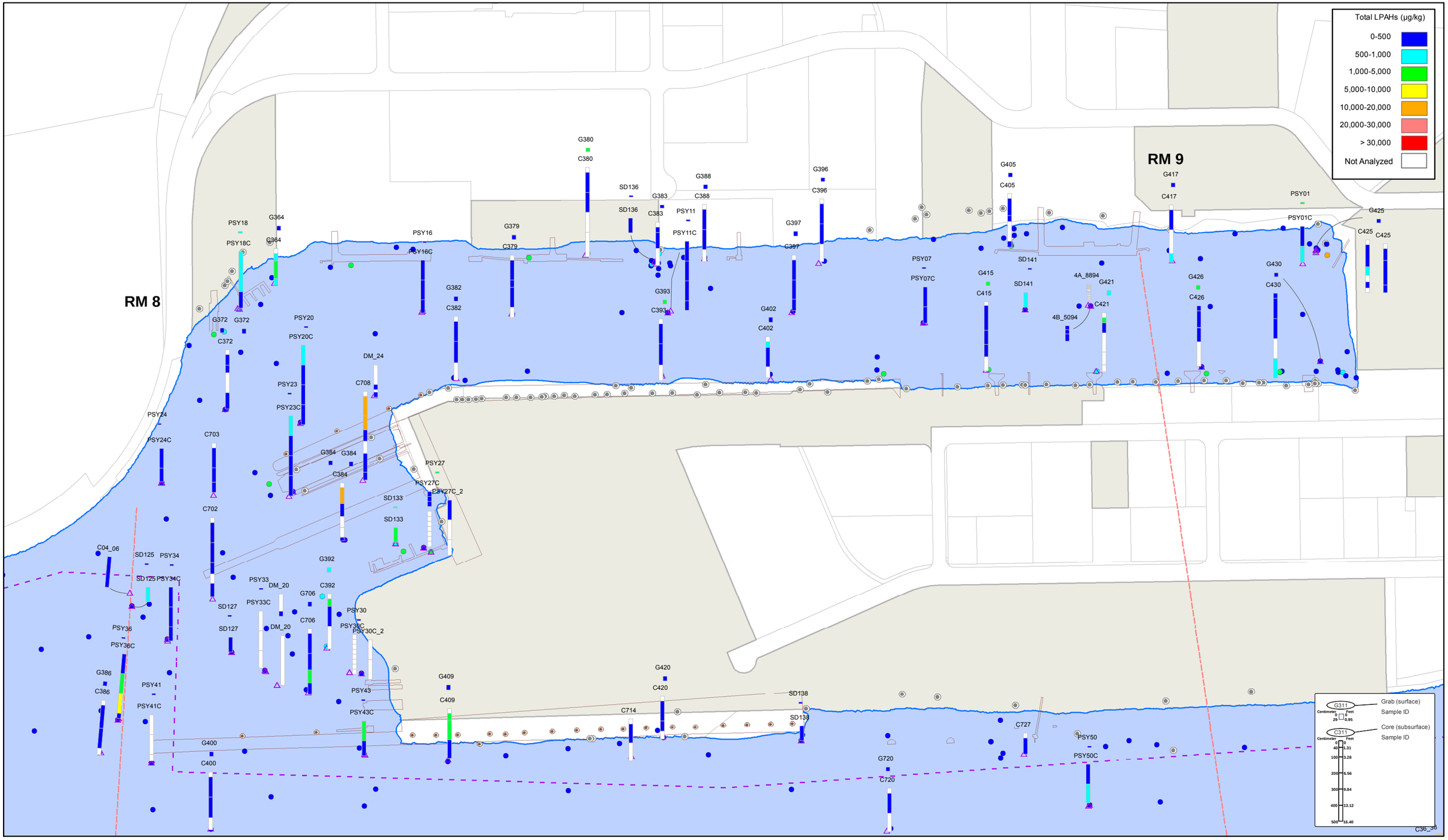
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17h

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

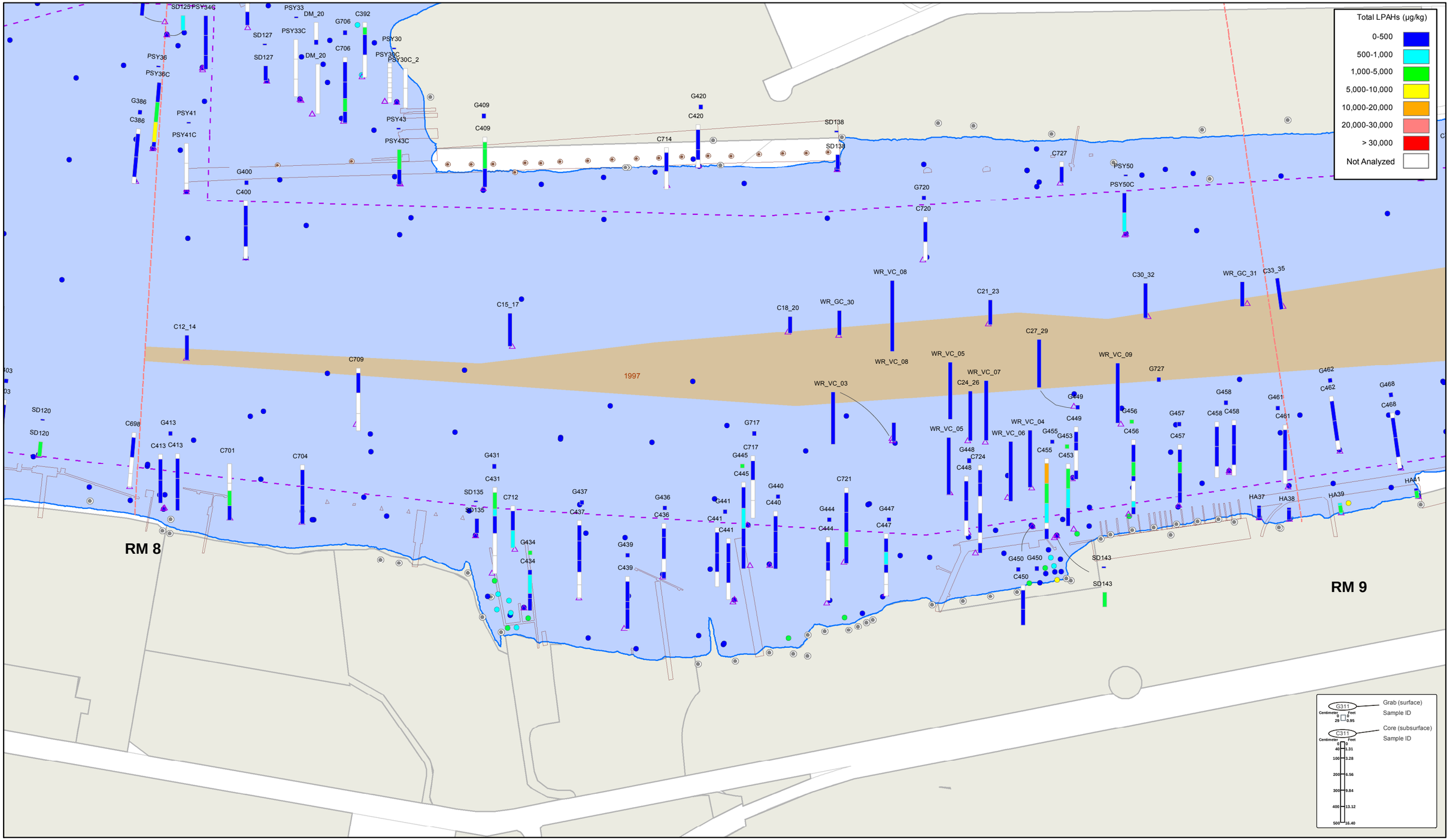
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 08 to 09 - Swan Is. East



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

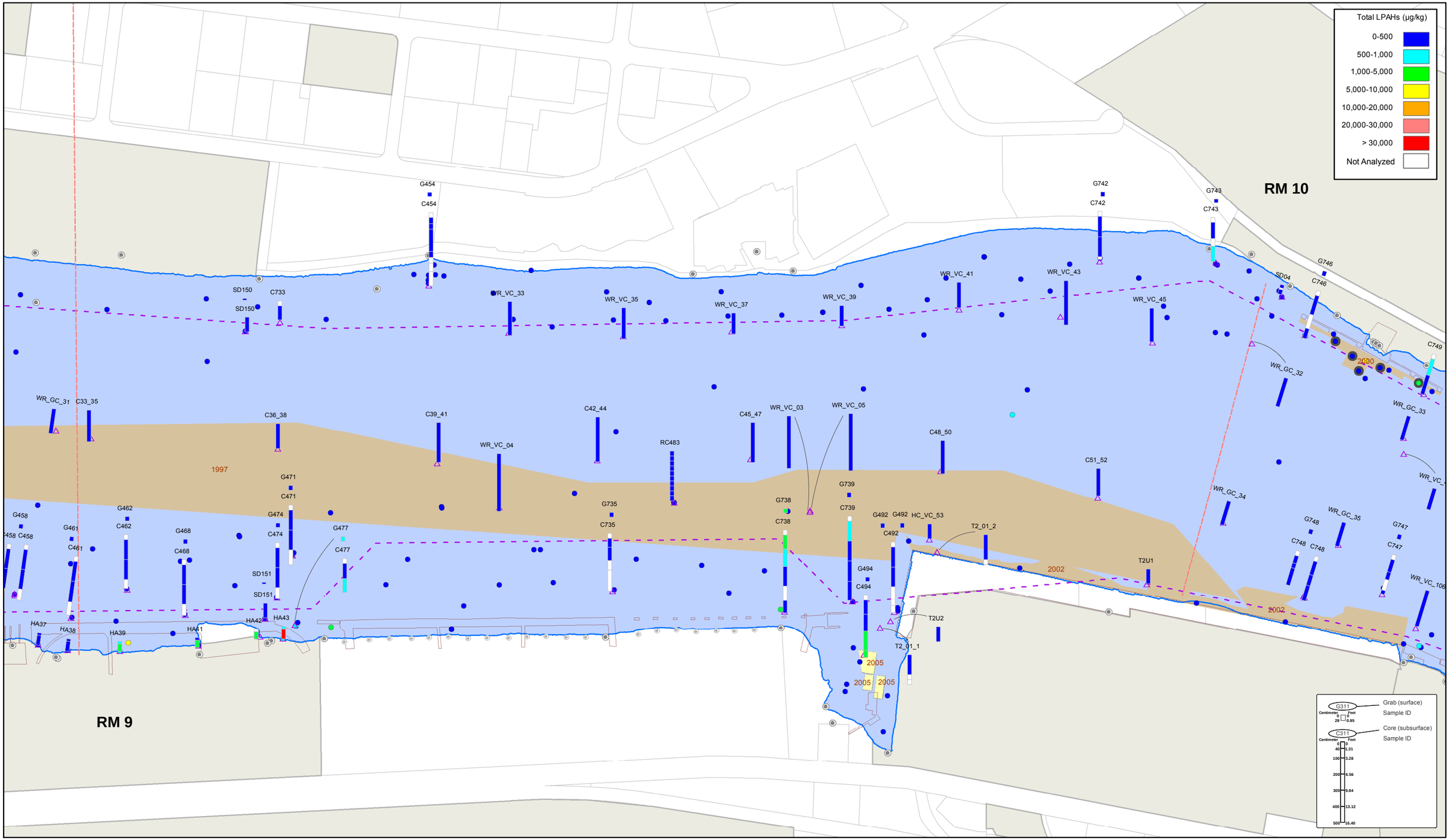
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 08 to 09 - Swan Is. West

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Main.mxd) - 3/6/2009 -- 4:03:25 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

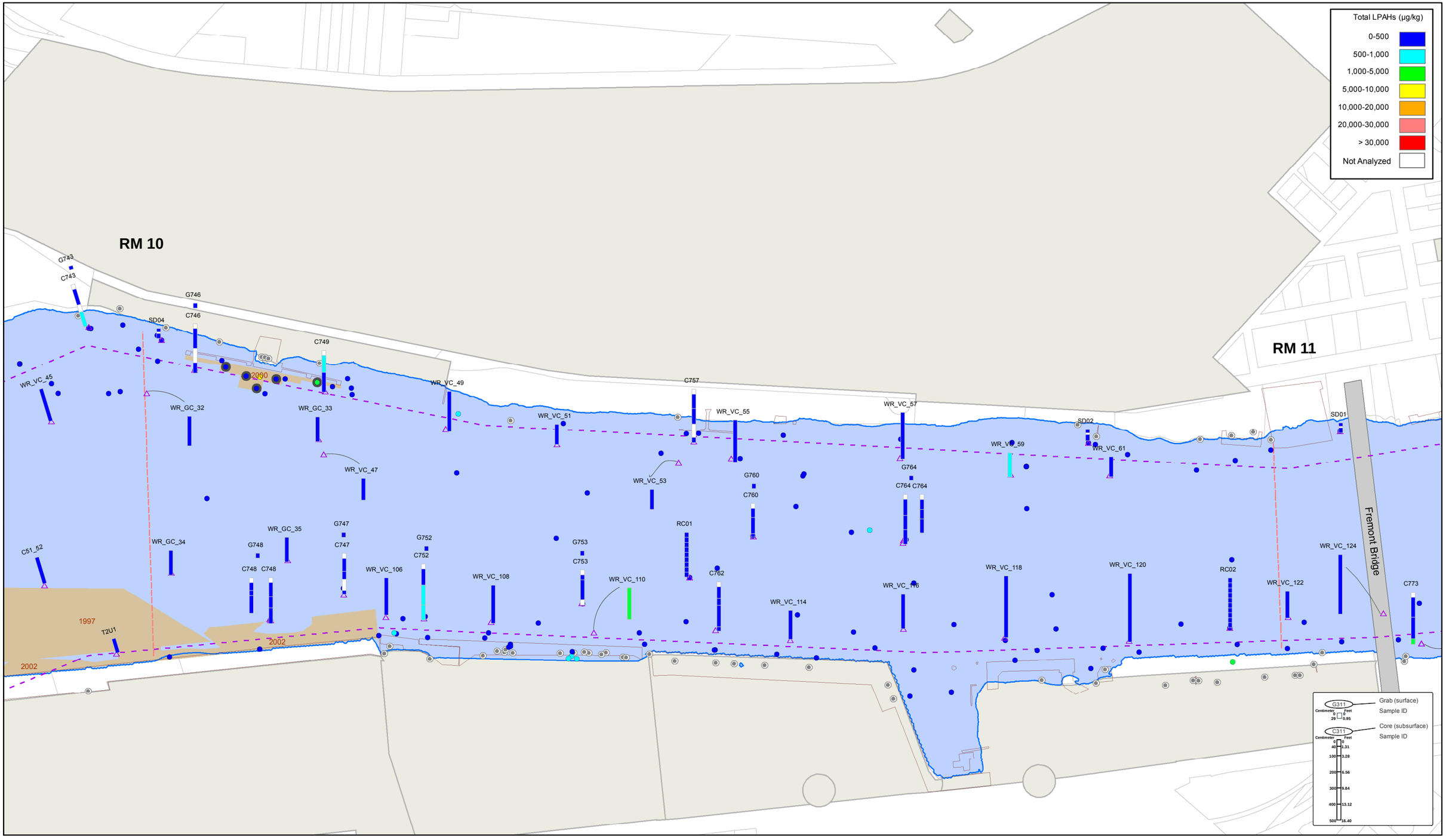
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-12_Cores_LPAH_Main.mxd) - 3/6/2009 -- 4:03:25 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

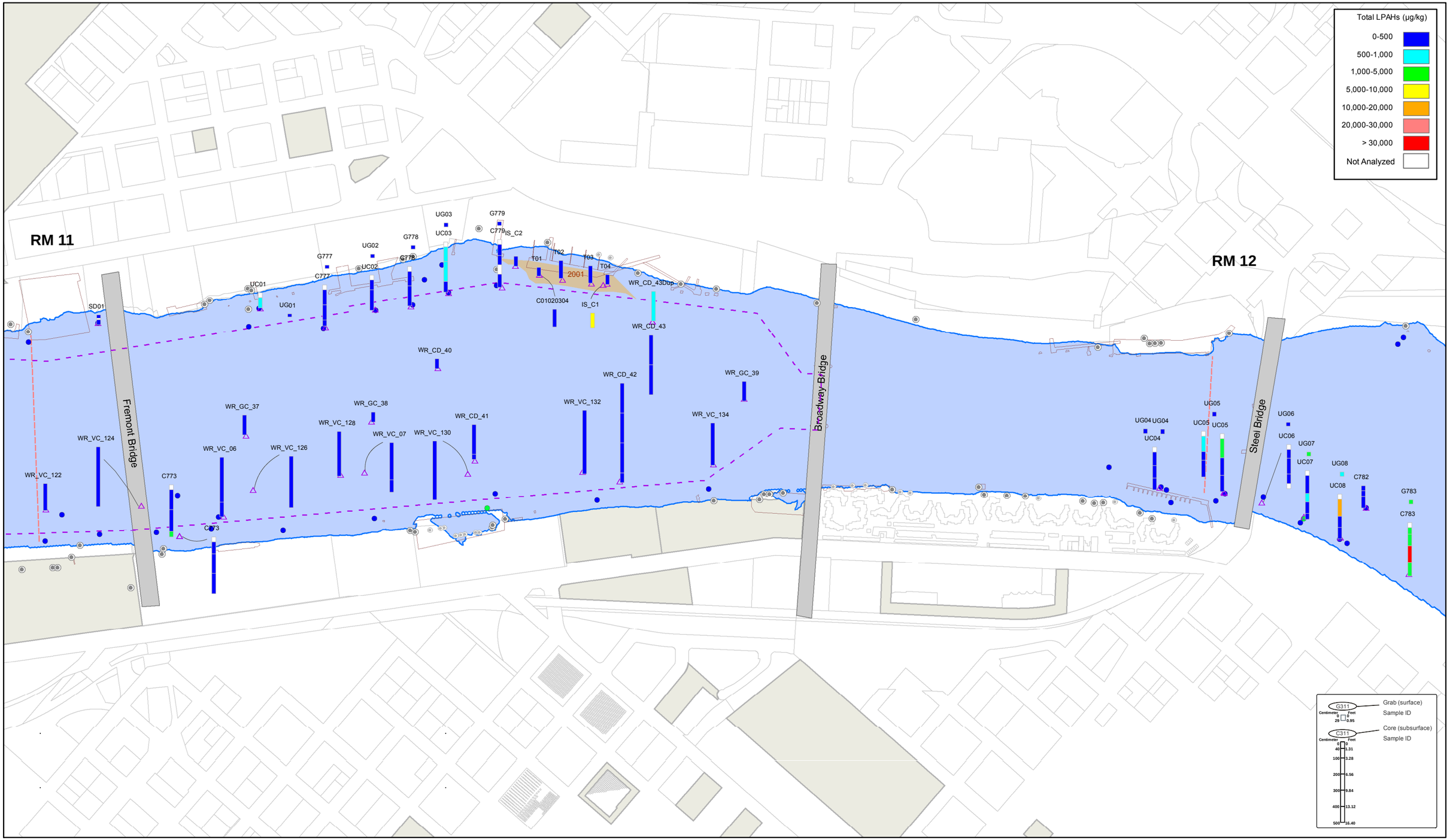
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

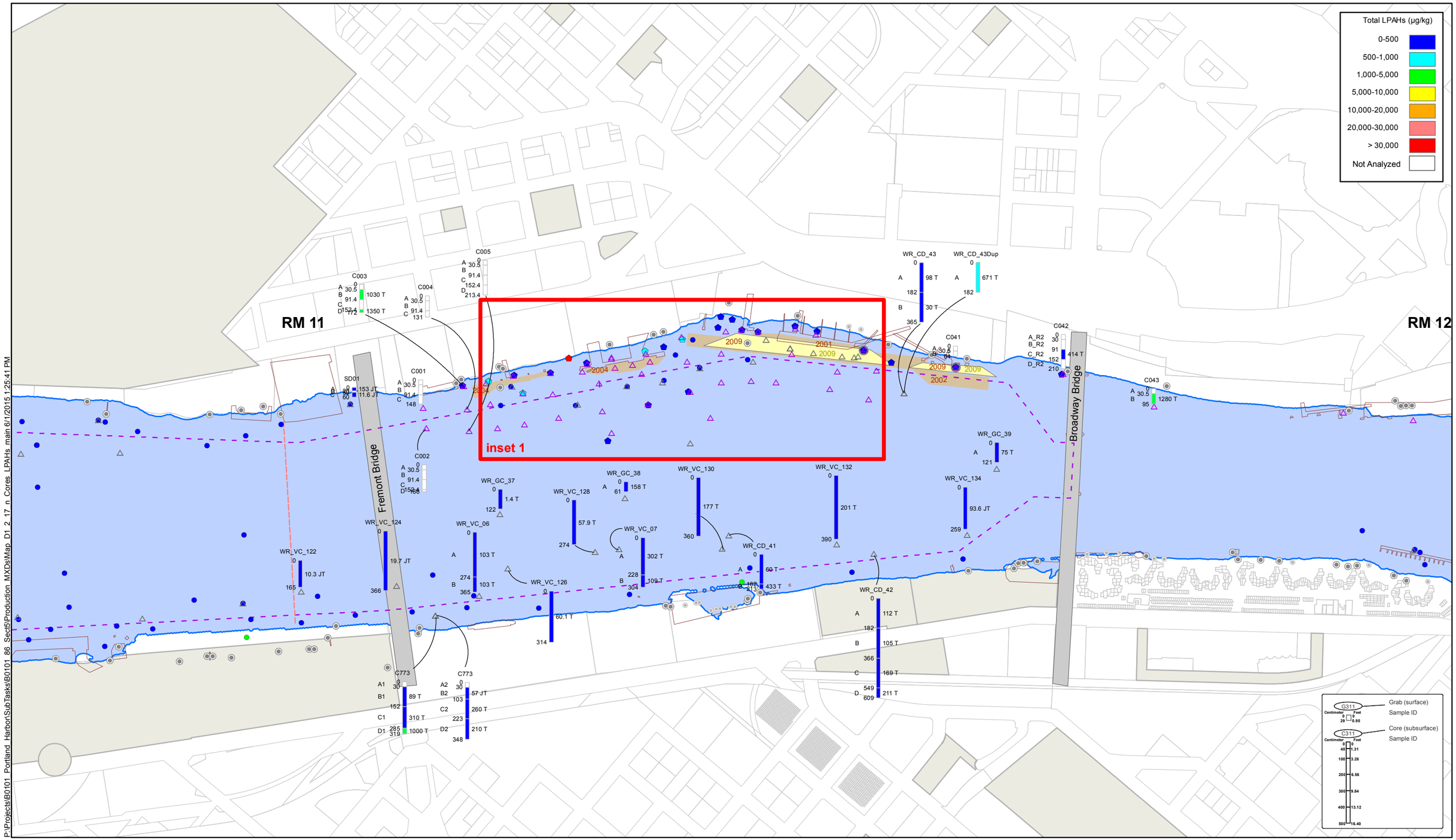
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17 m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 11.0 - 11.8

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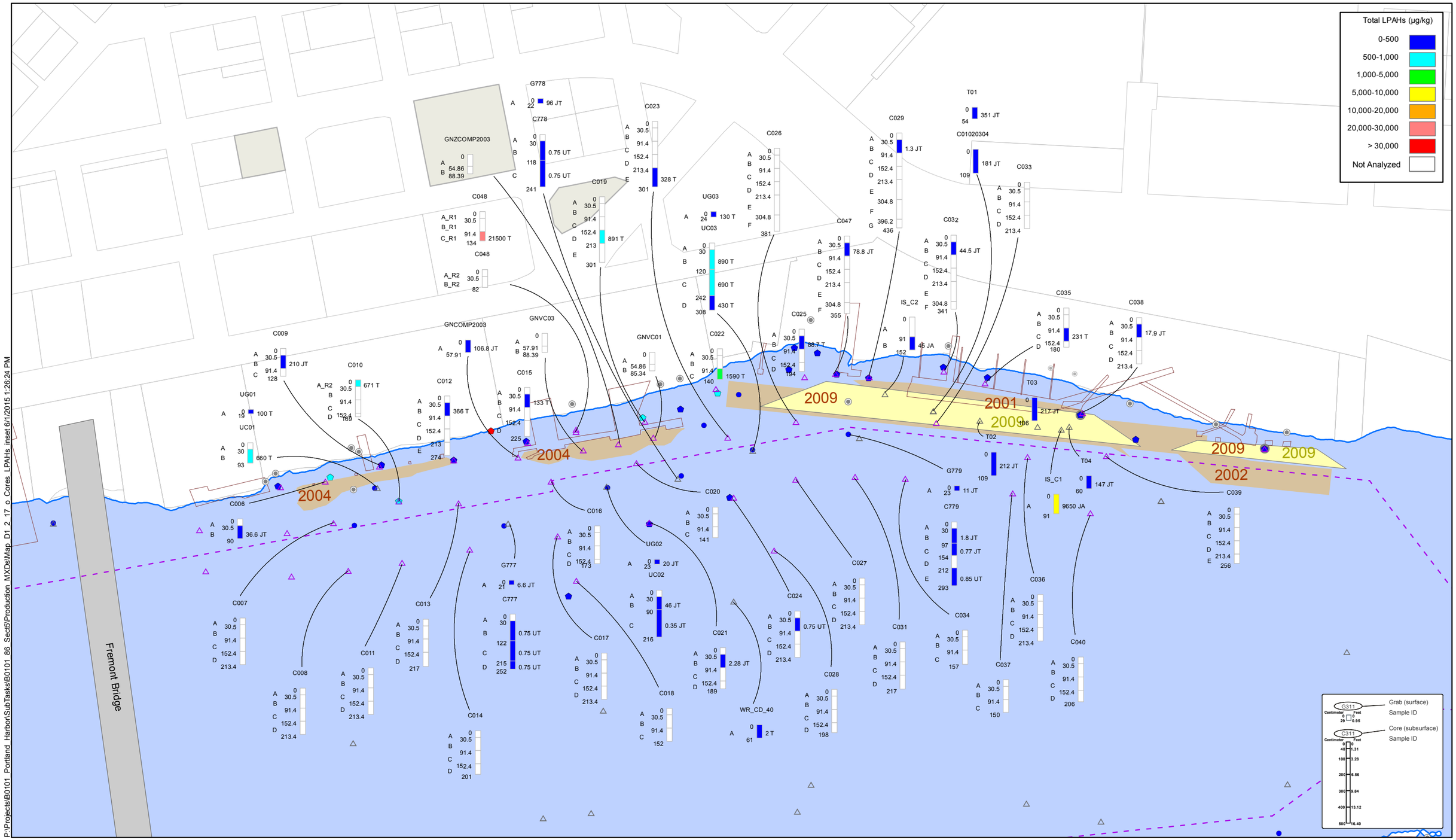

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

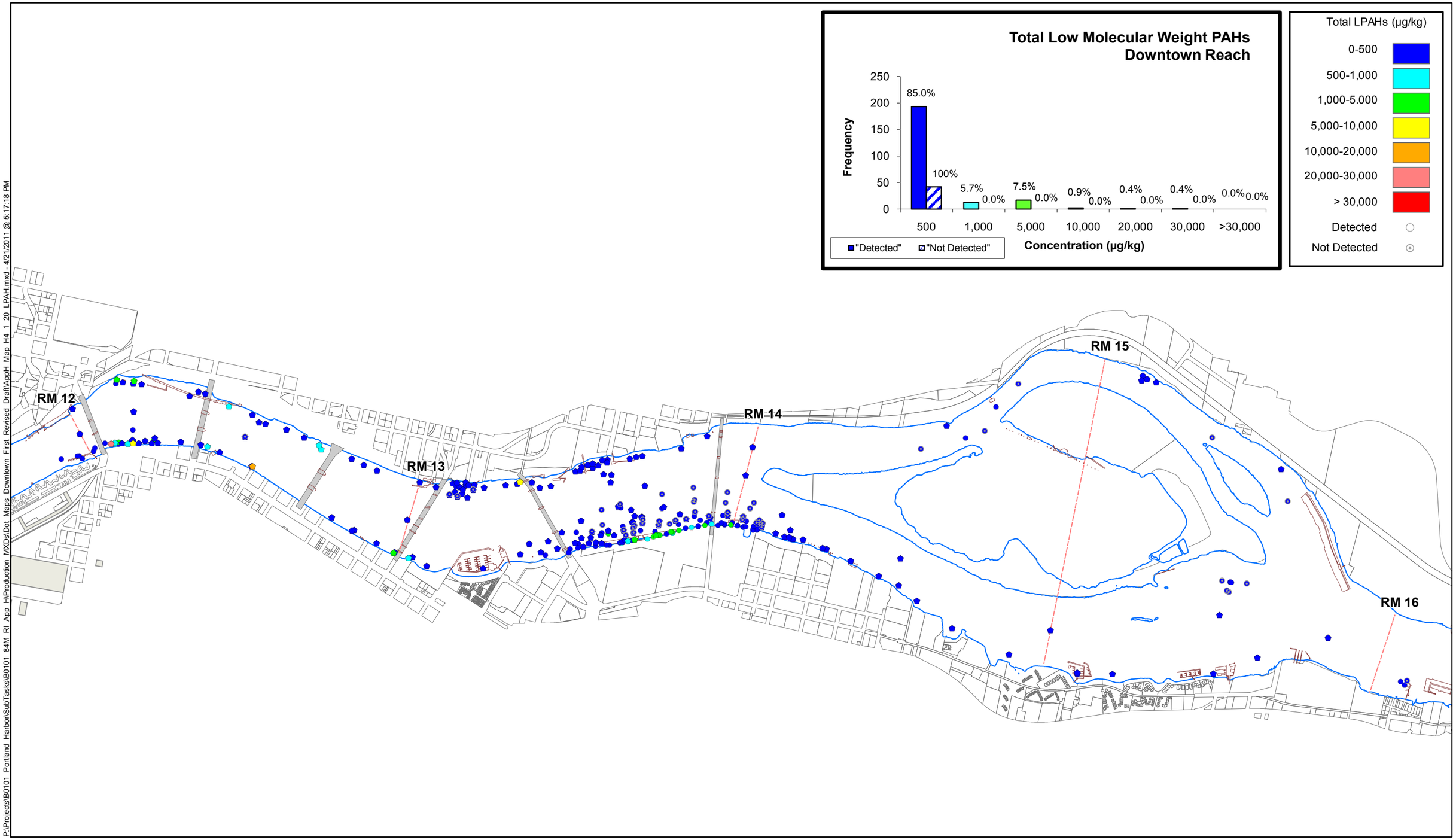
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-17o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)

River Mile 11.0 - 11.8 - Inset 1



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N

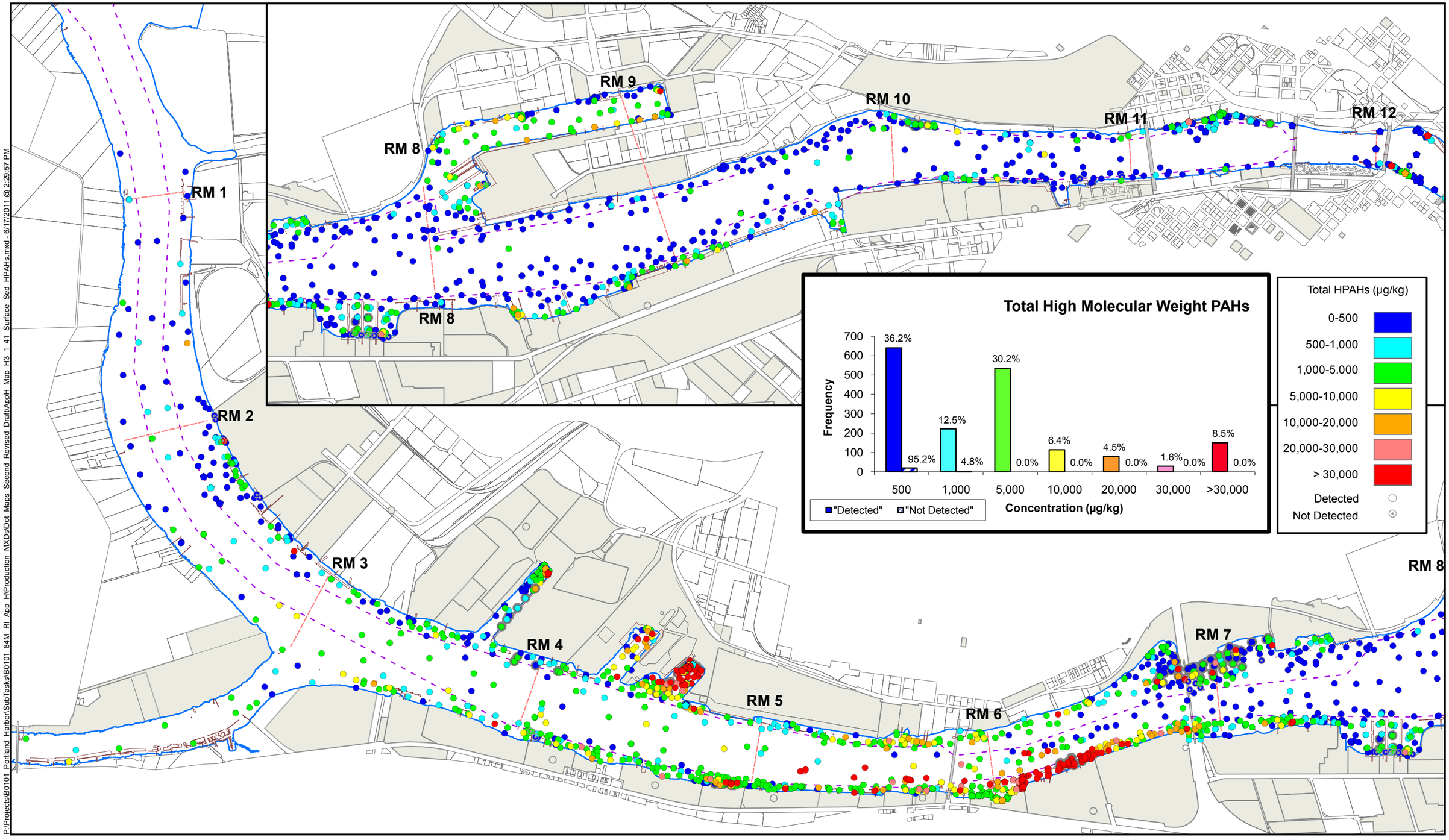
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-18
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Low Molecular Weight PAHs (µg/kg)
Downtown Reach



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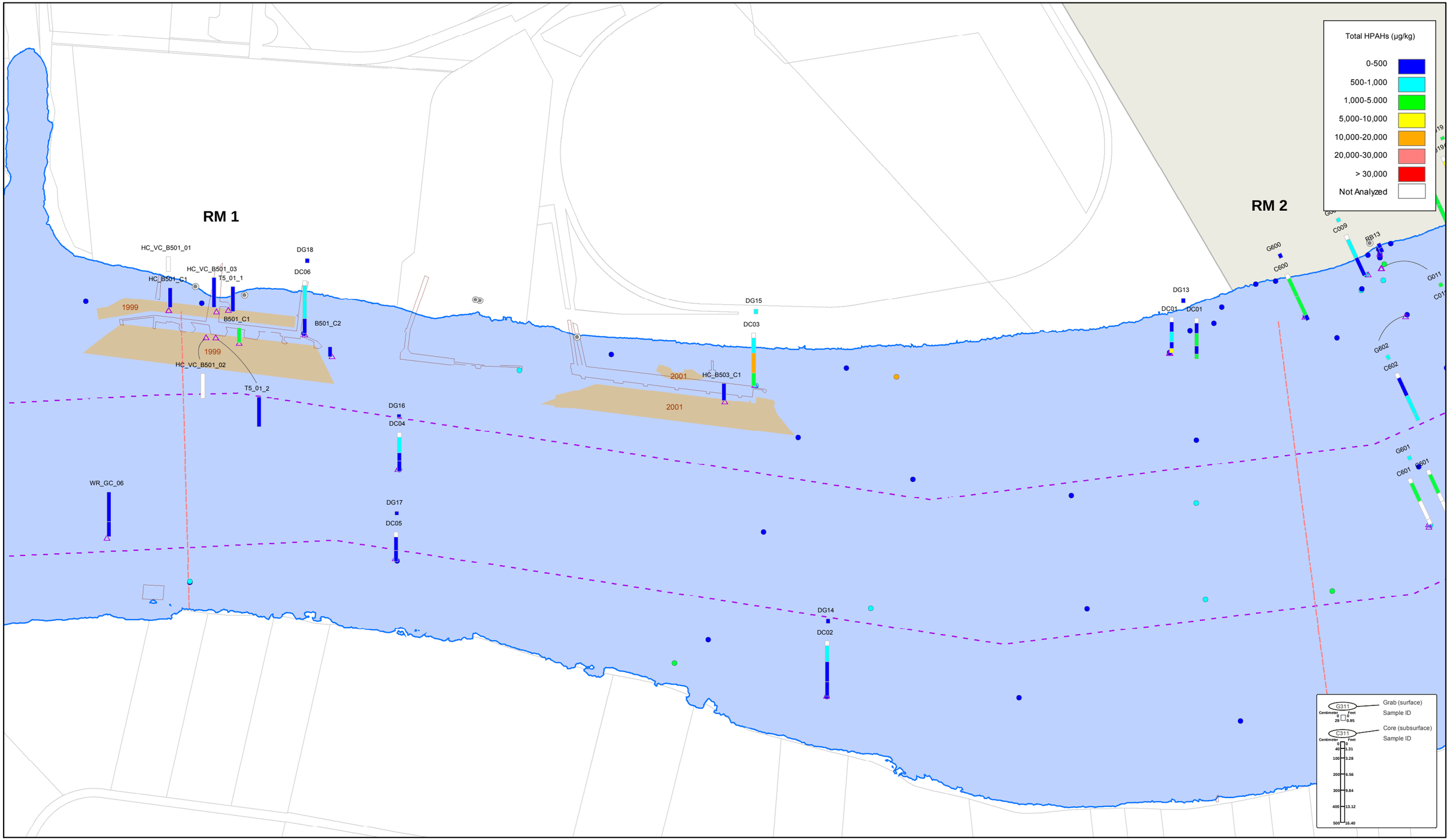
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-19
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

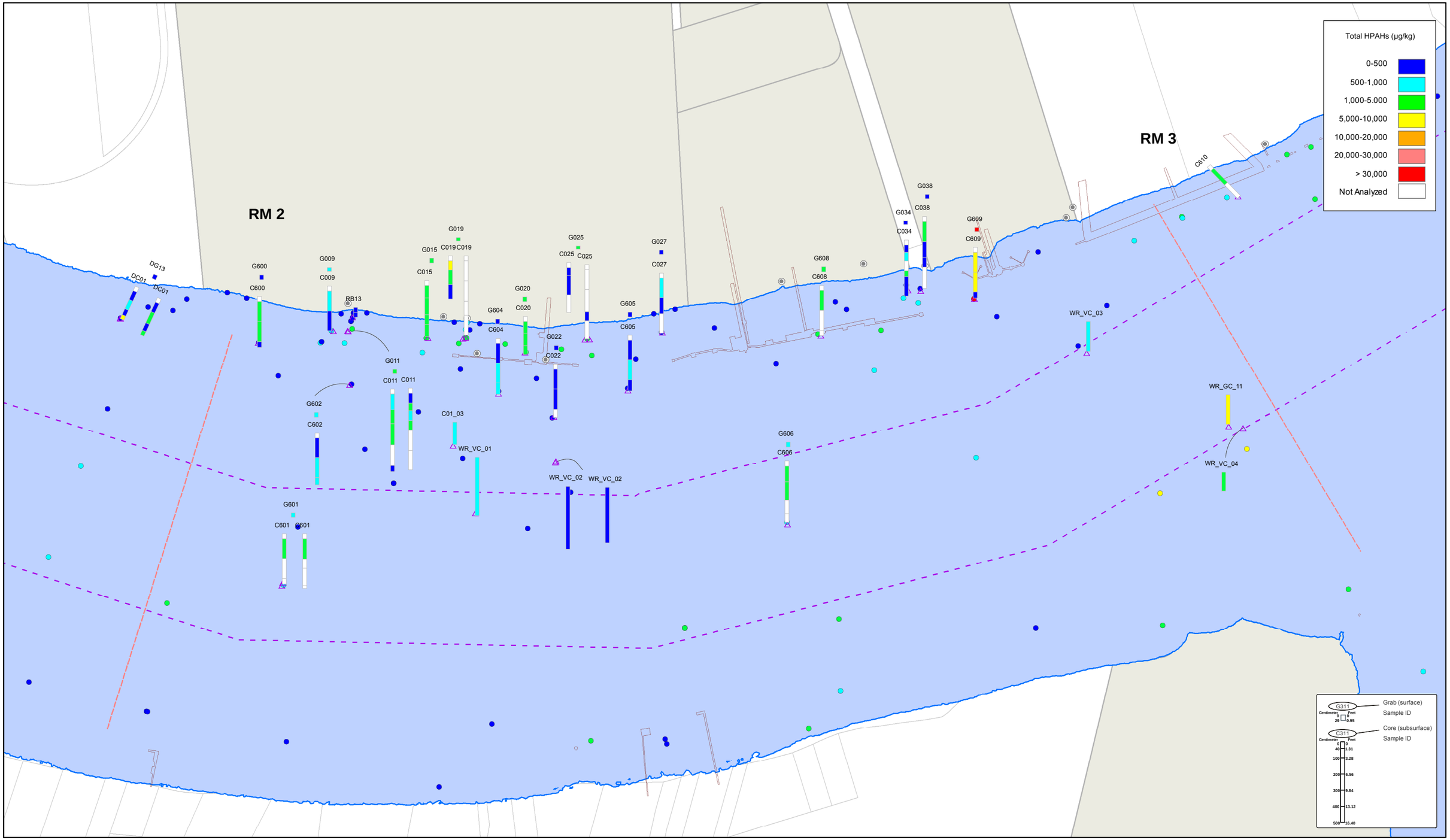
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20a

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

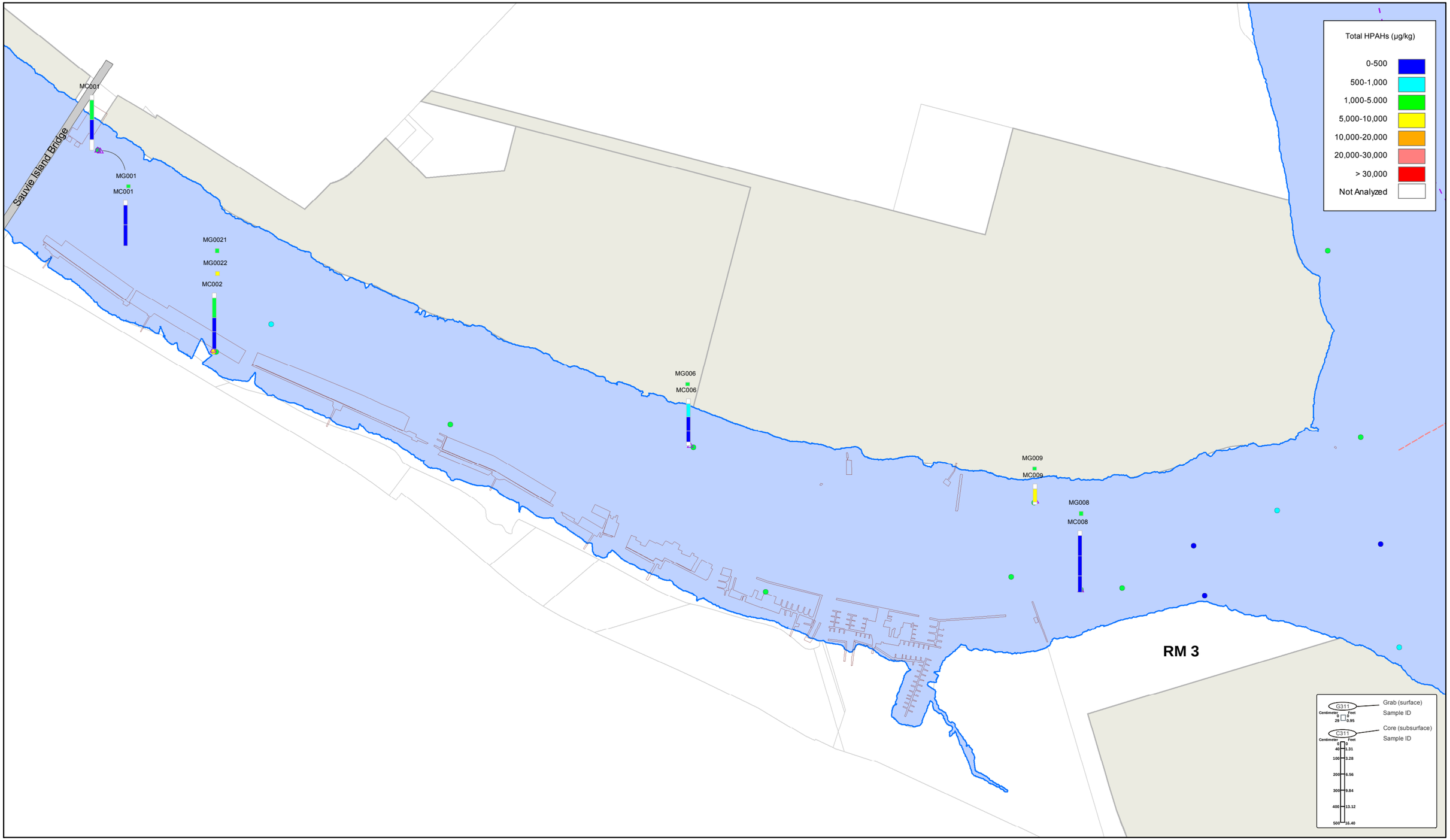
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-14_Cores_HPAH_Main.mxd) - 3/13/2009 -- 2:12:31 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

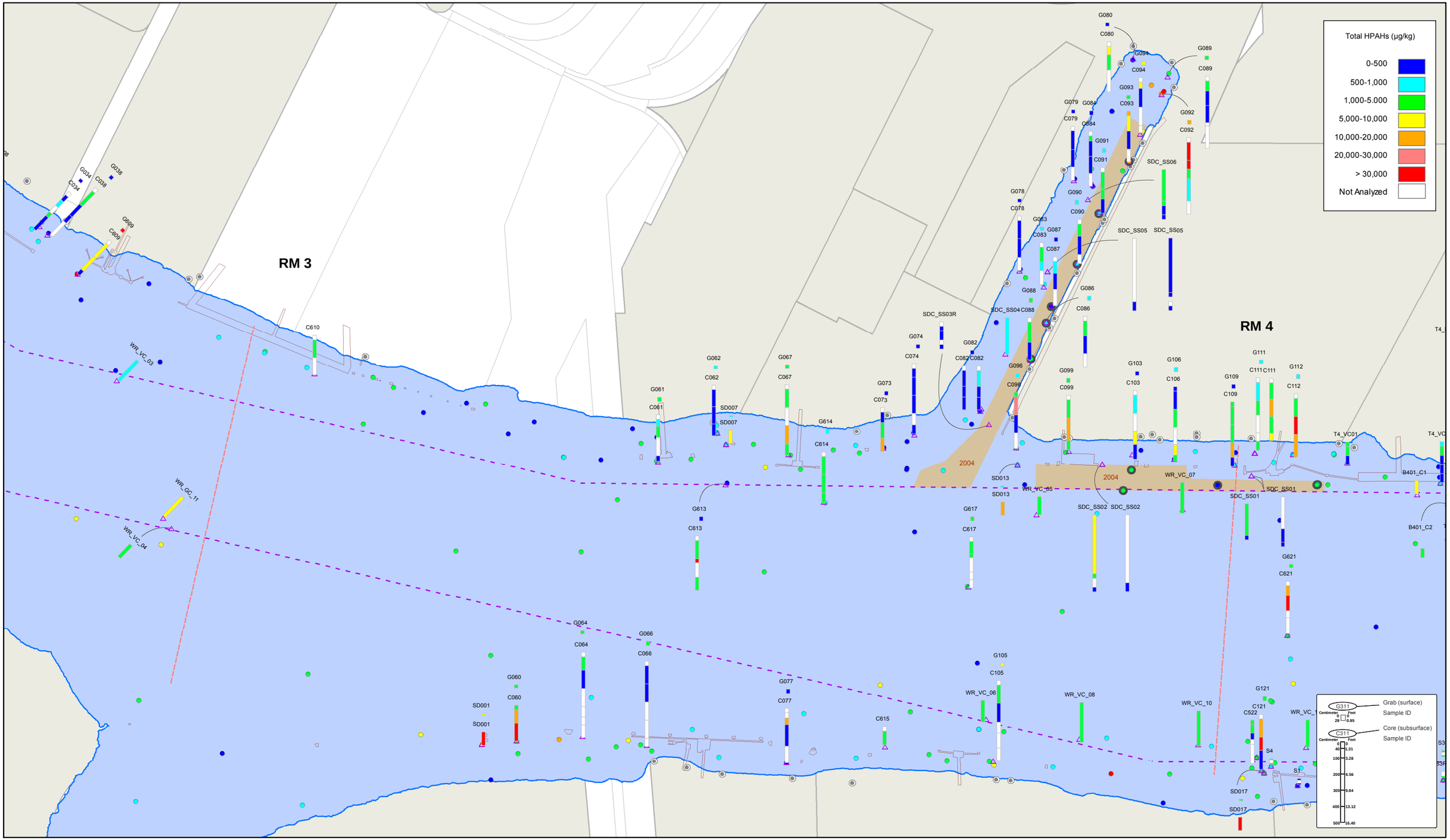
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

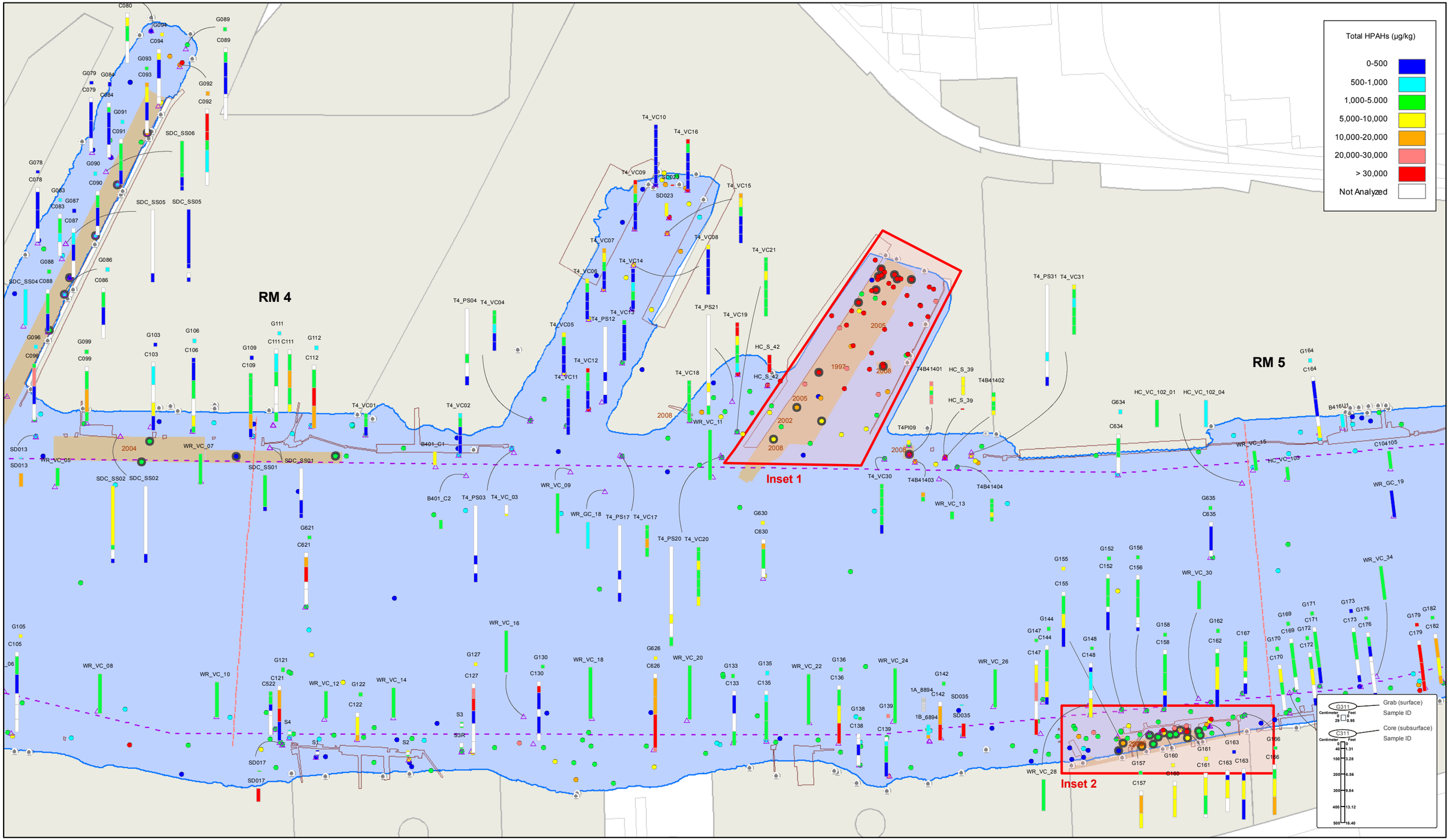
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

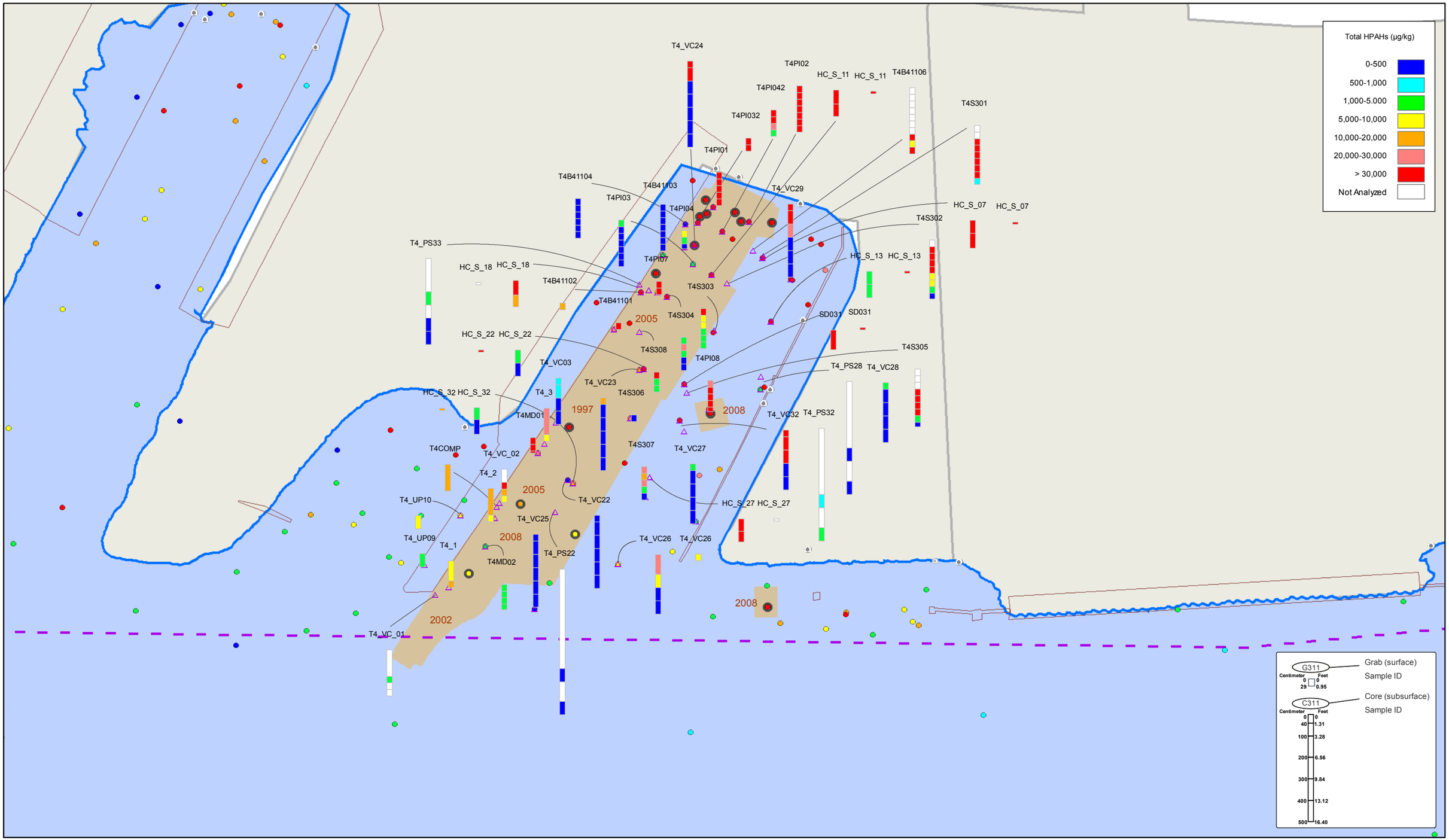
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

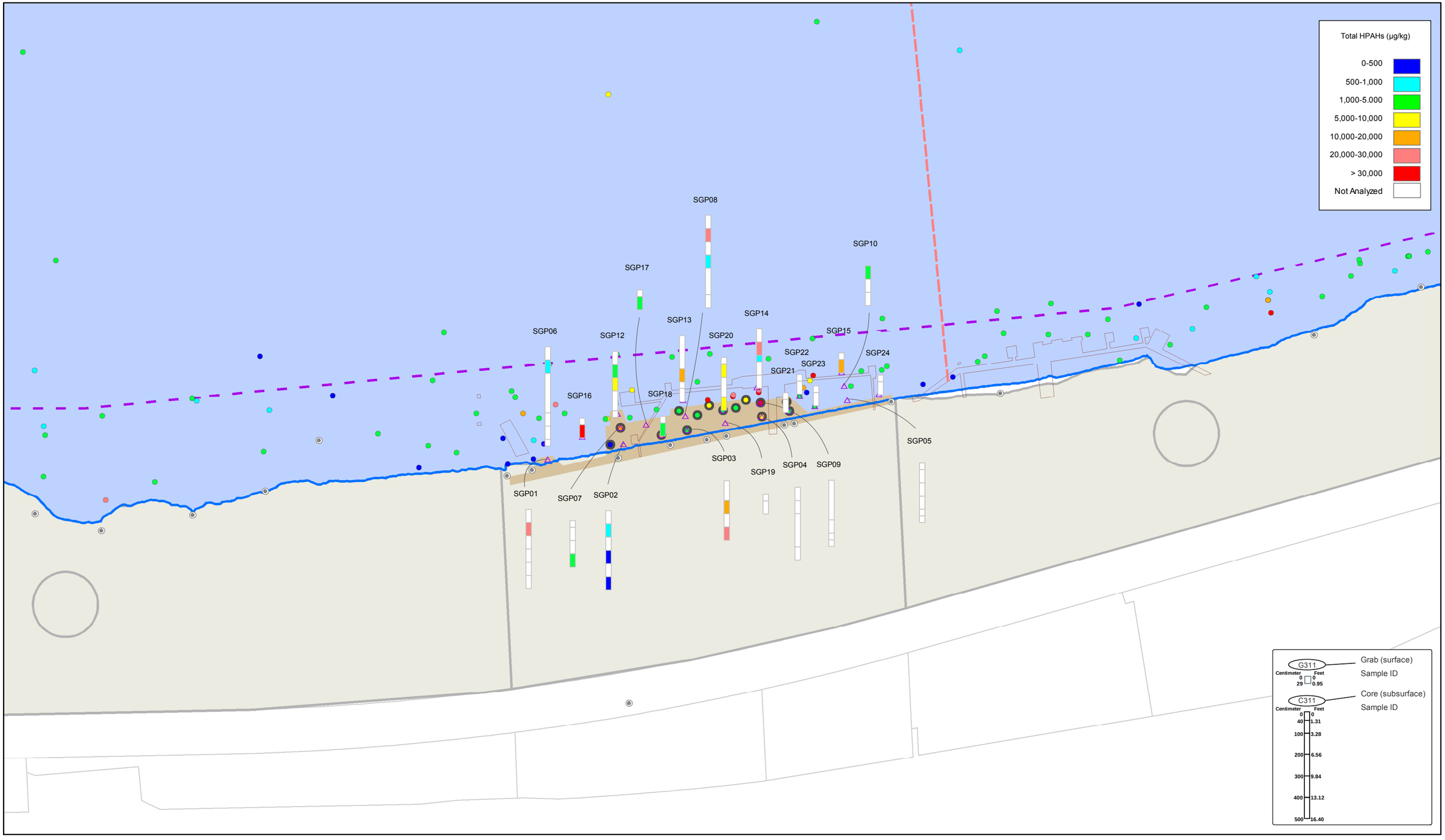
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 04 to 05 - Slips - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

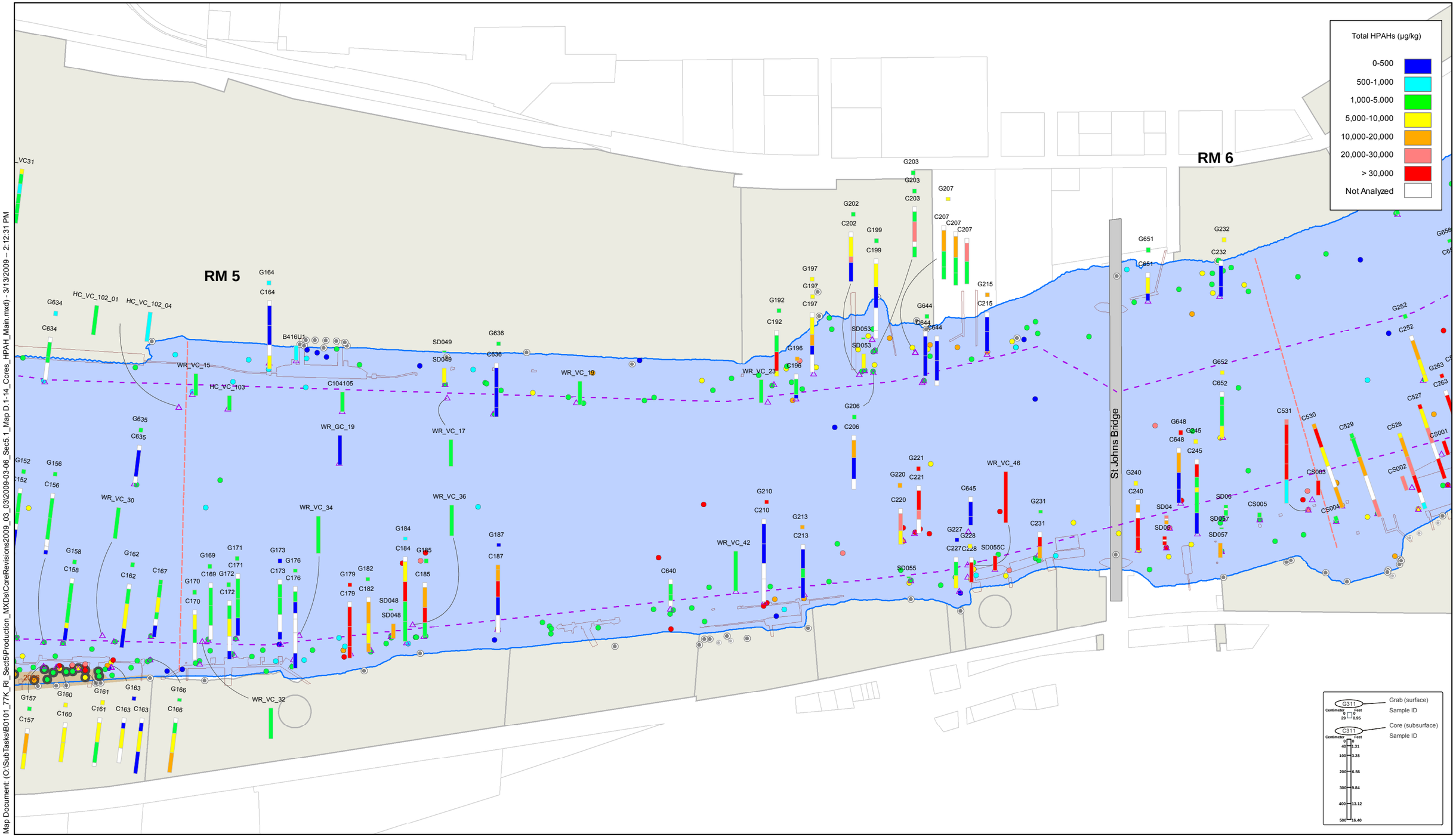
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20 e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

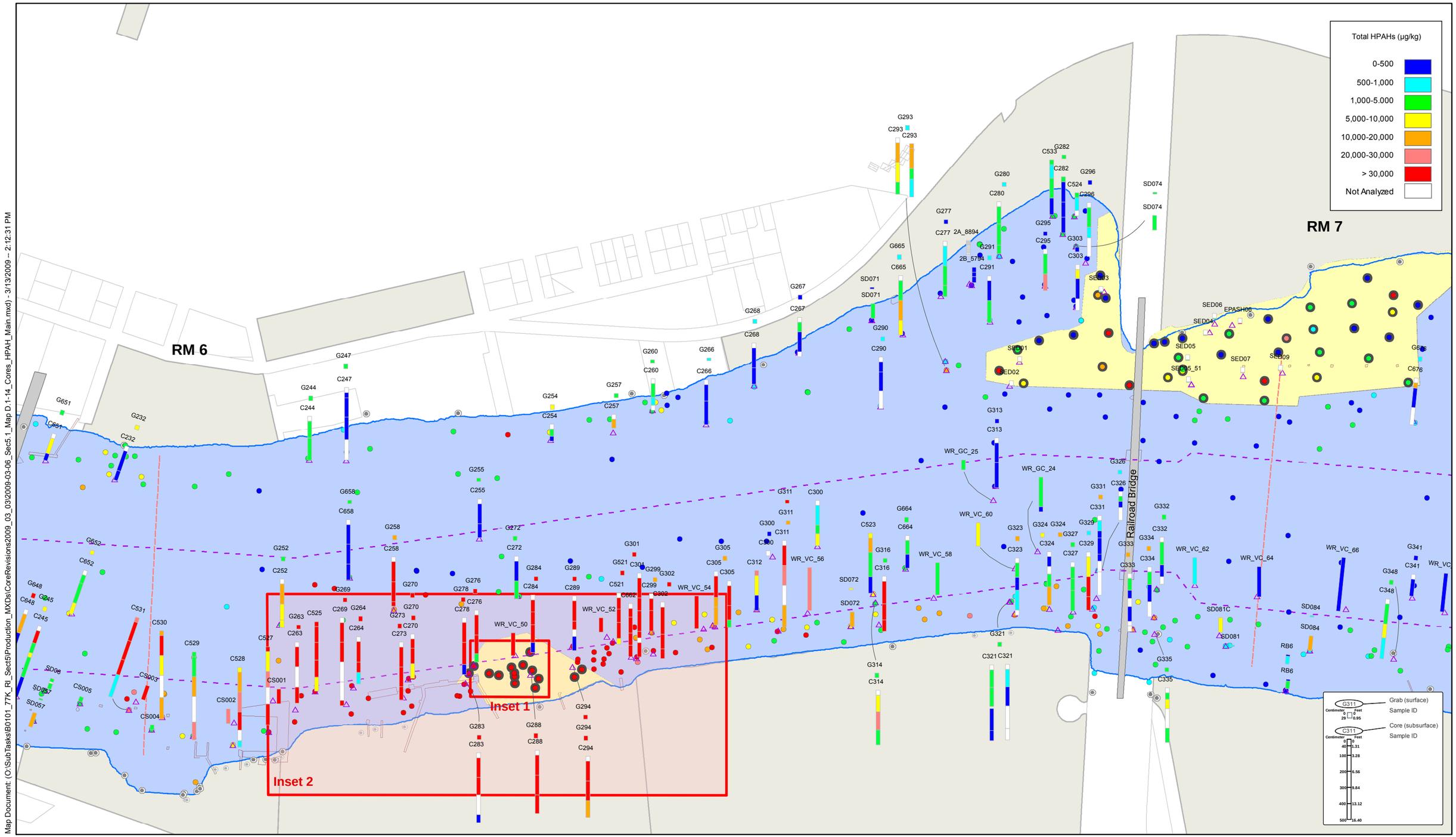
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

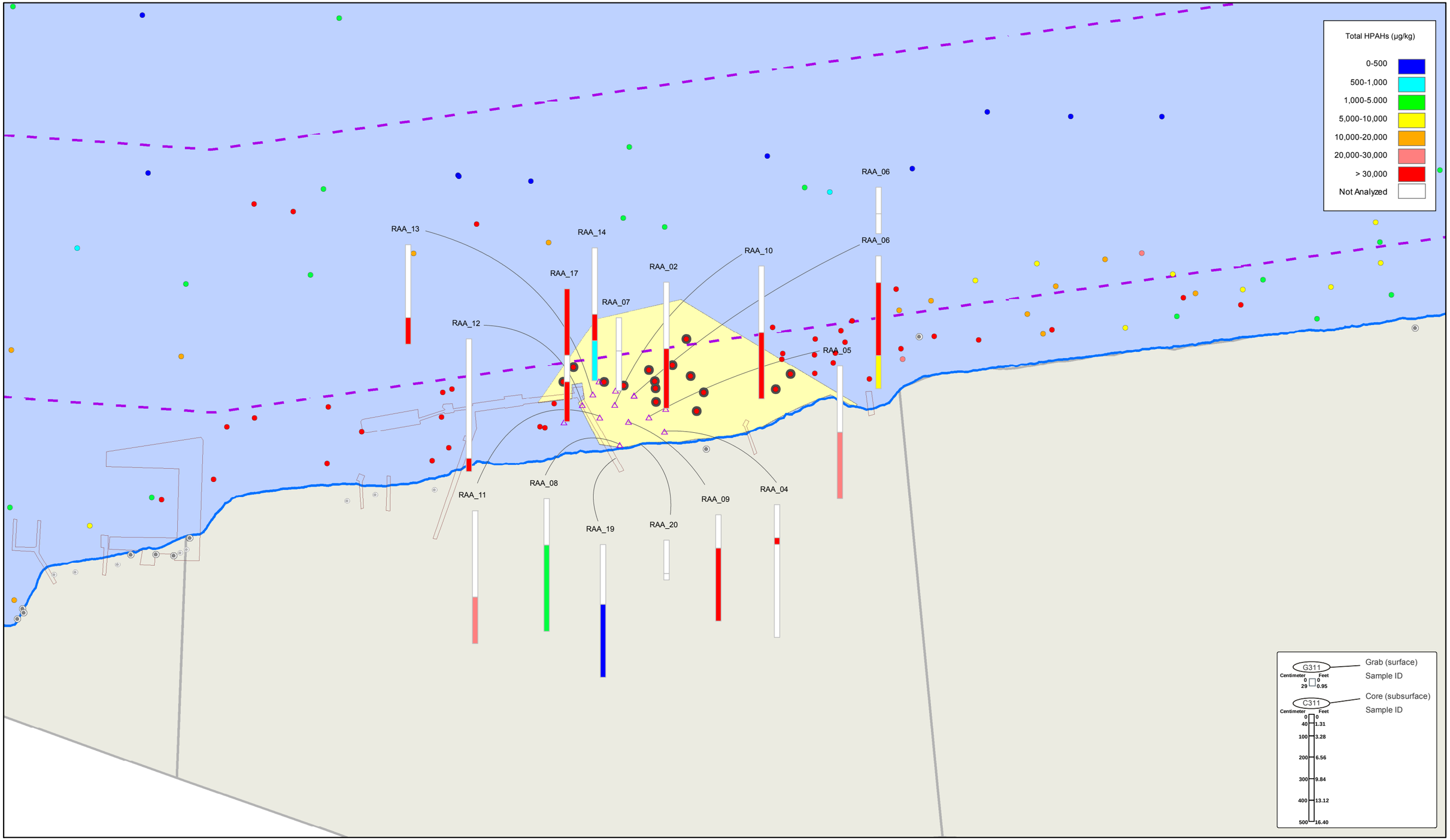
Map Features
- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

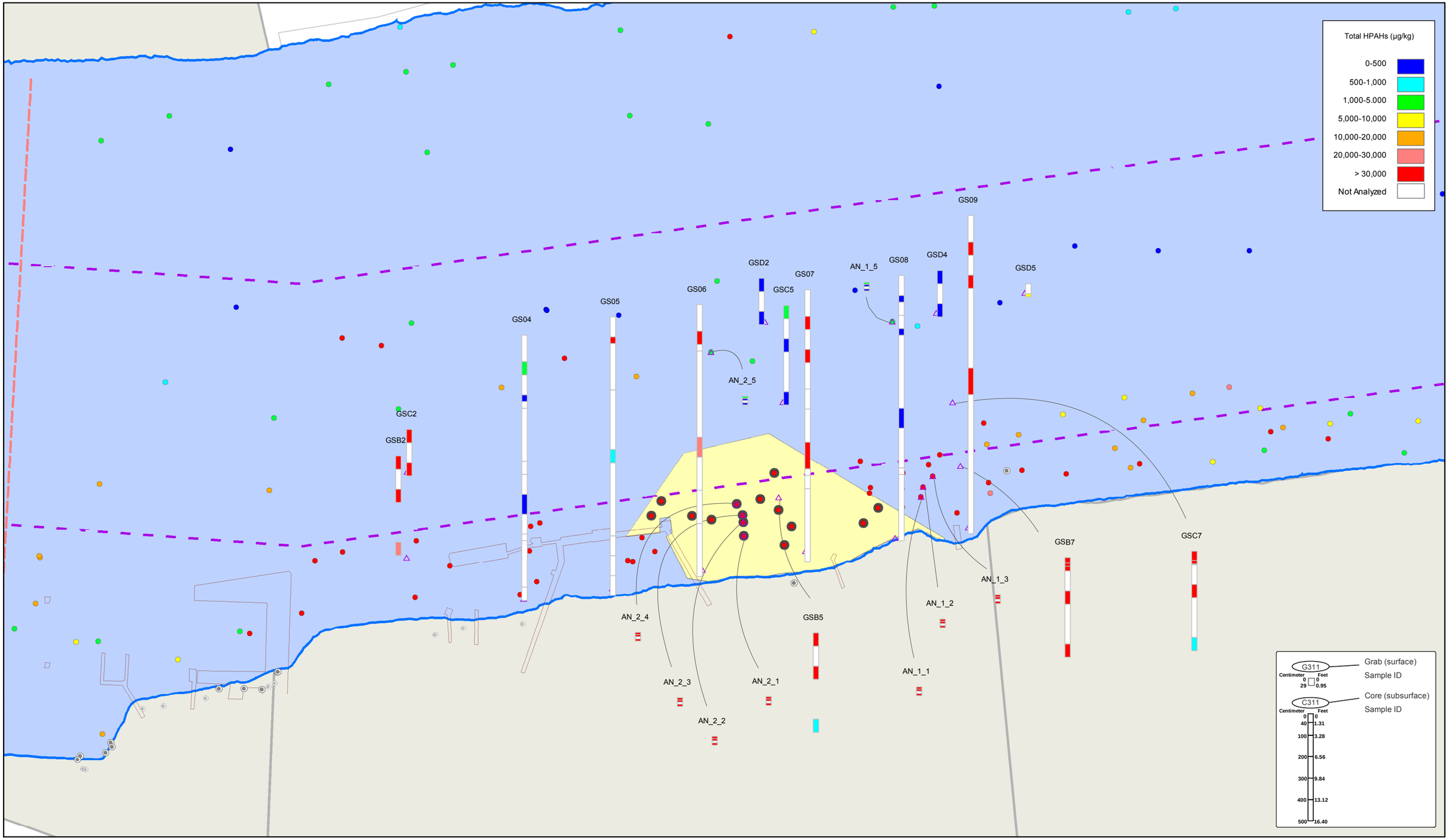
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

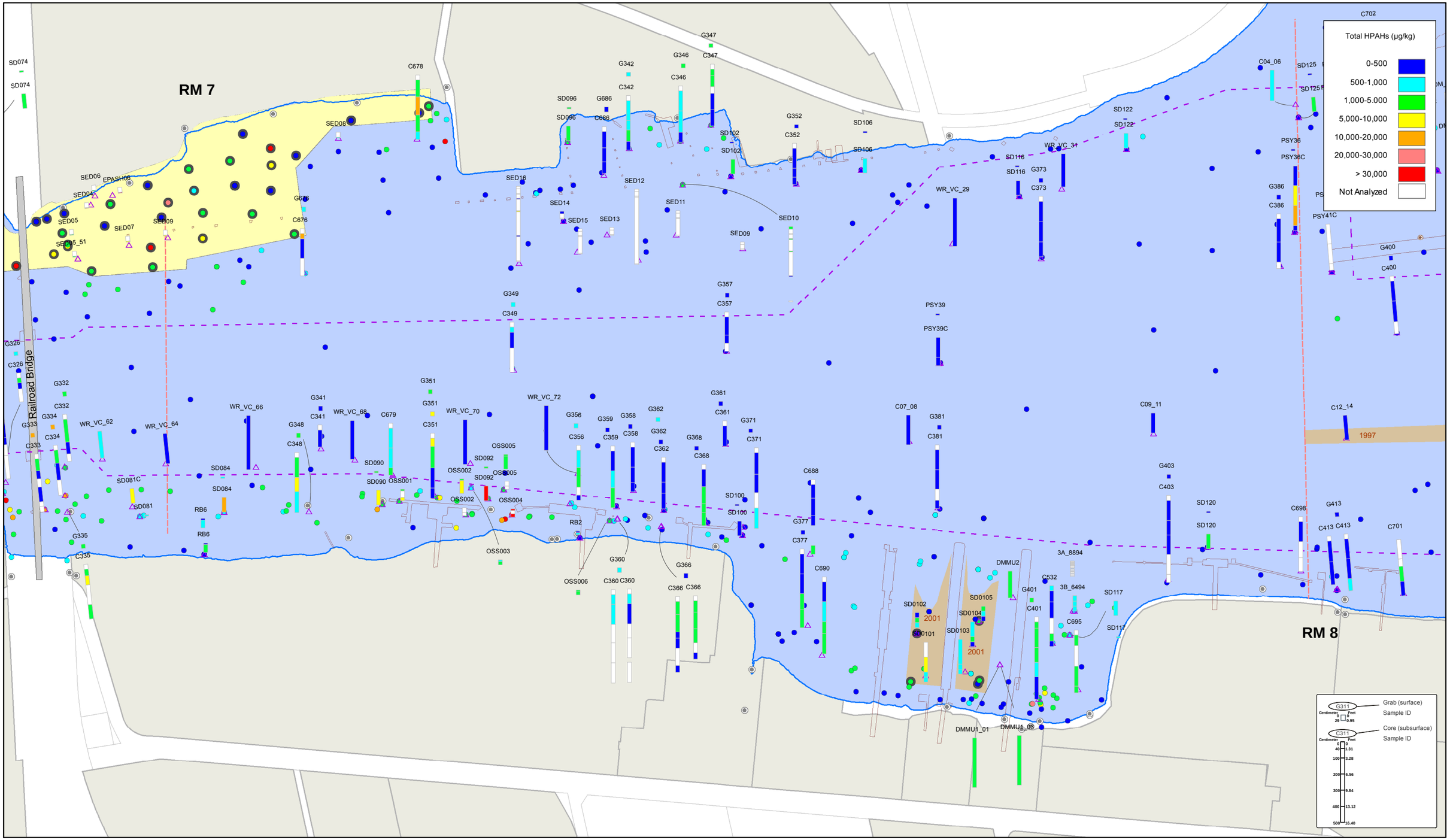
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 06 to 07 - Inset 2



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

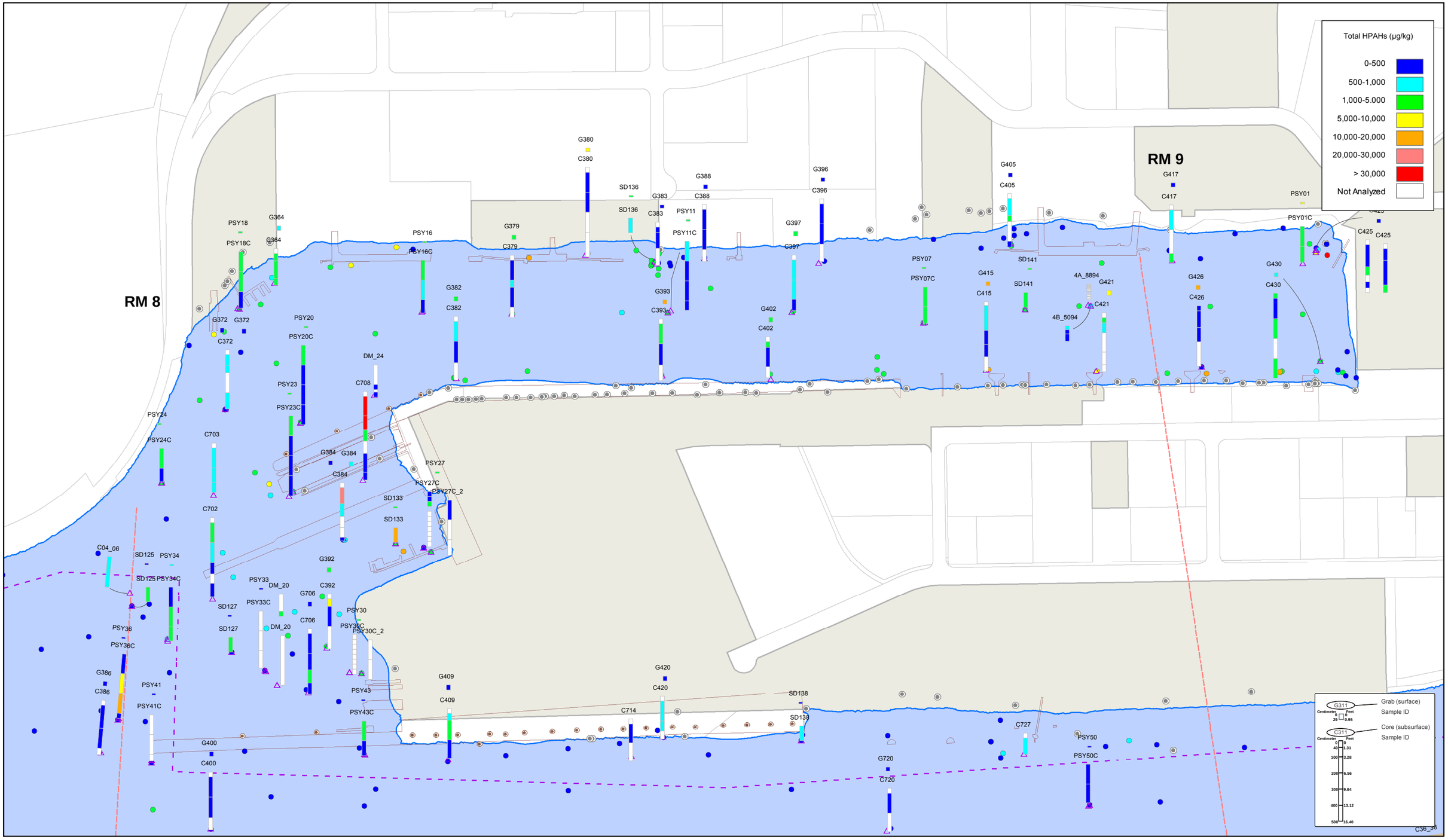
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20h

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 07 to 08



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

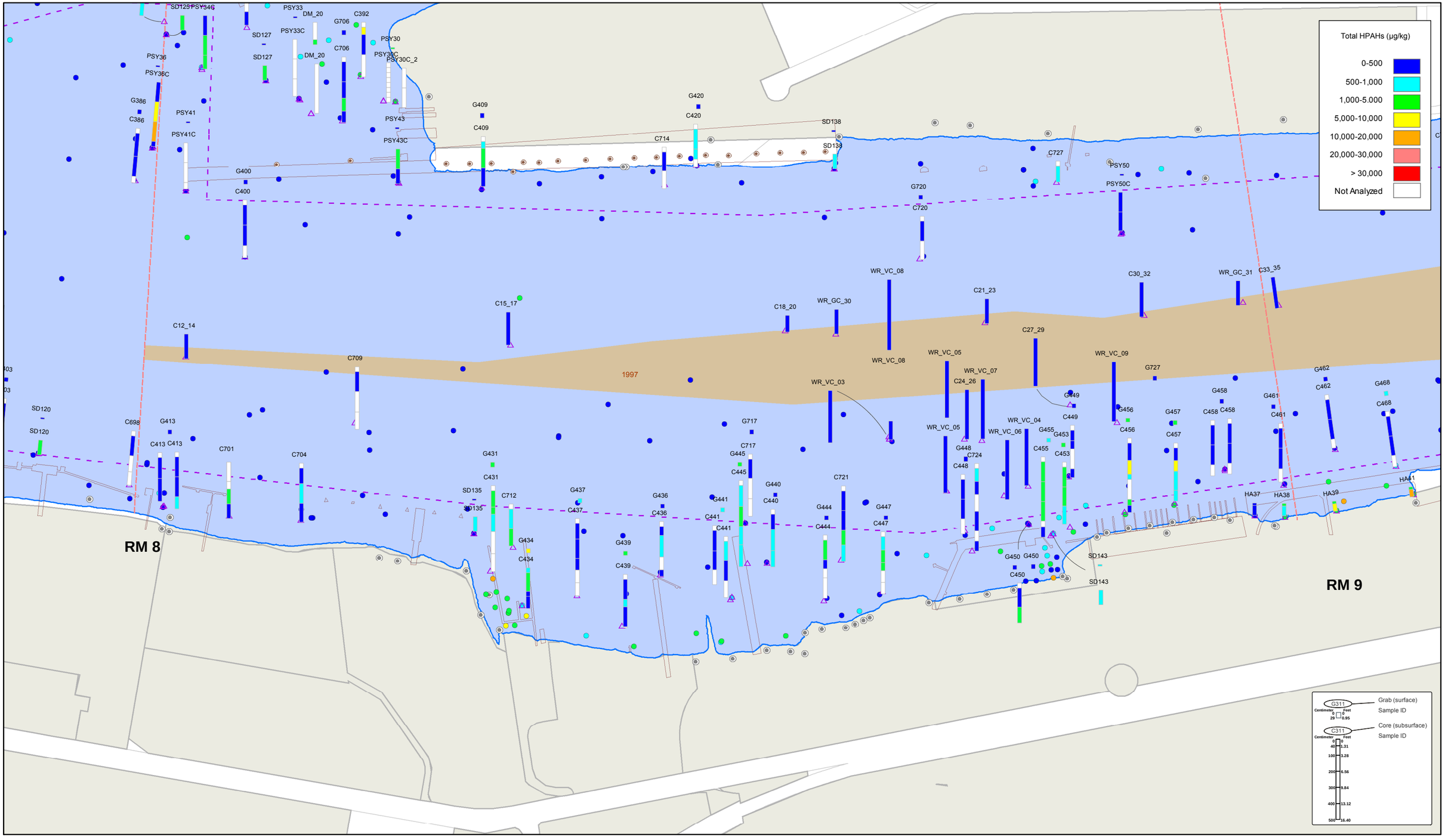
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

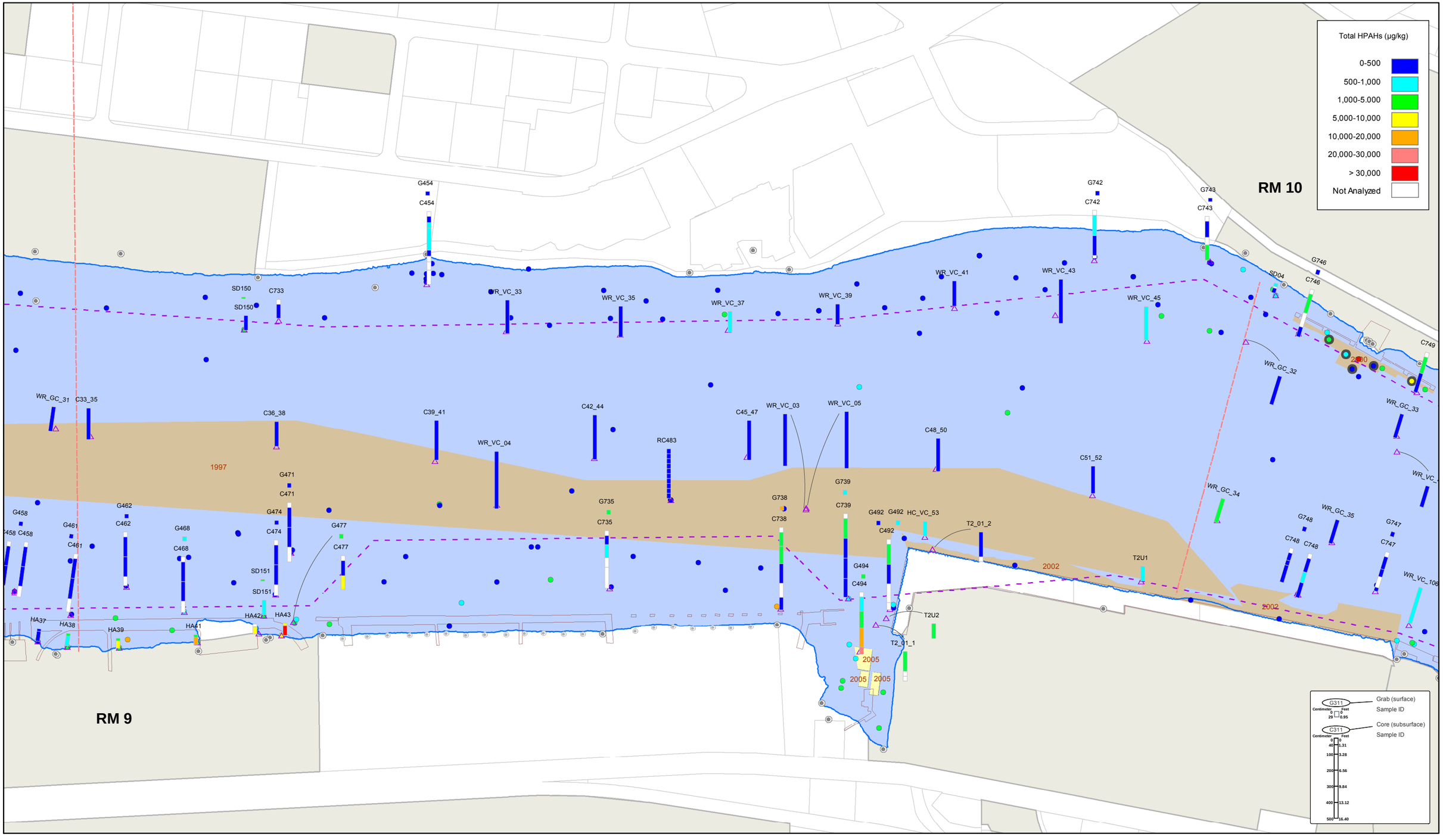
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

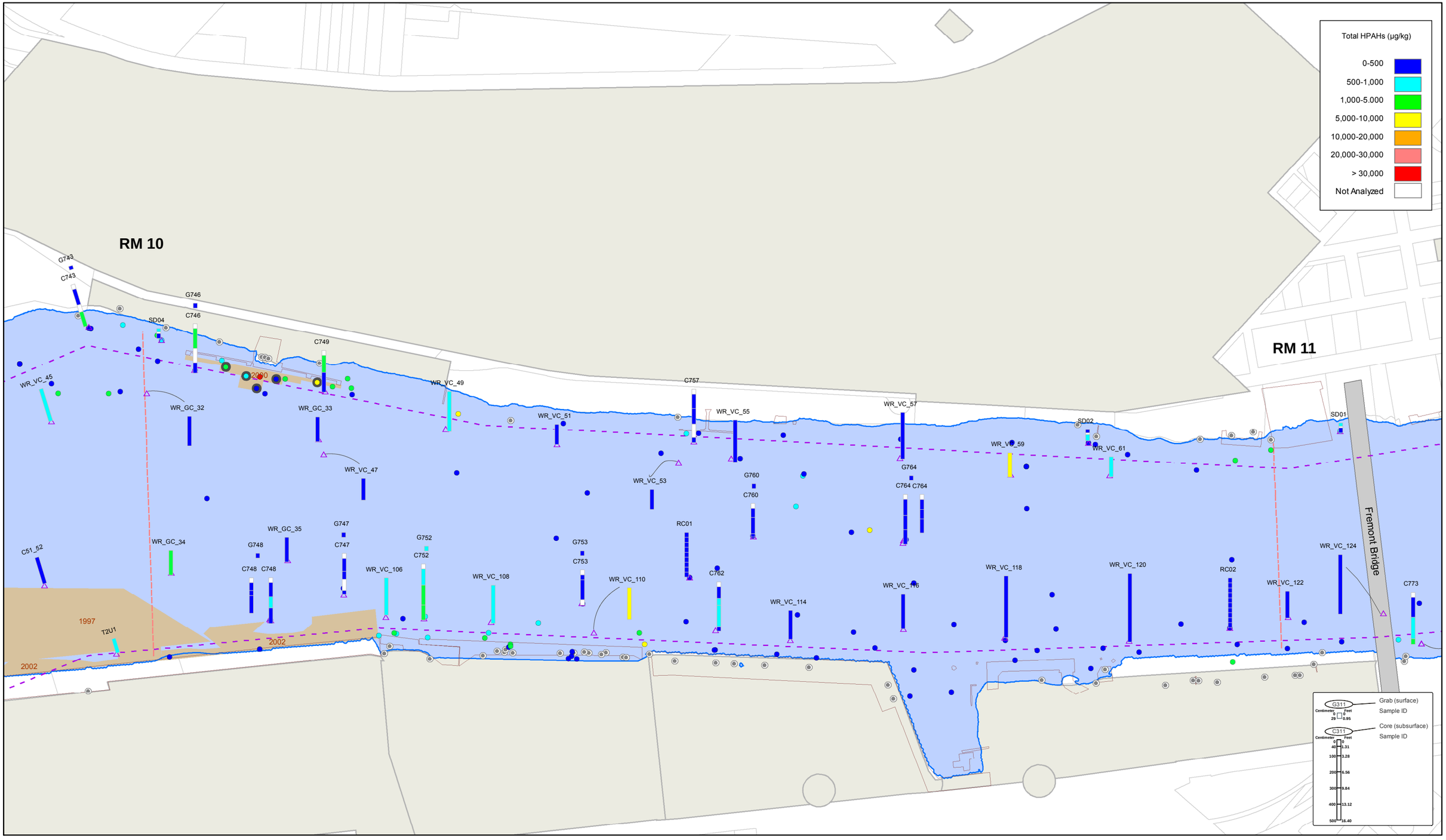
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-14_Cores_HPAH_Main.mxd) - 3/13/2009 -- 2:12:31 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

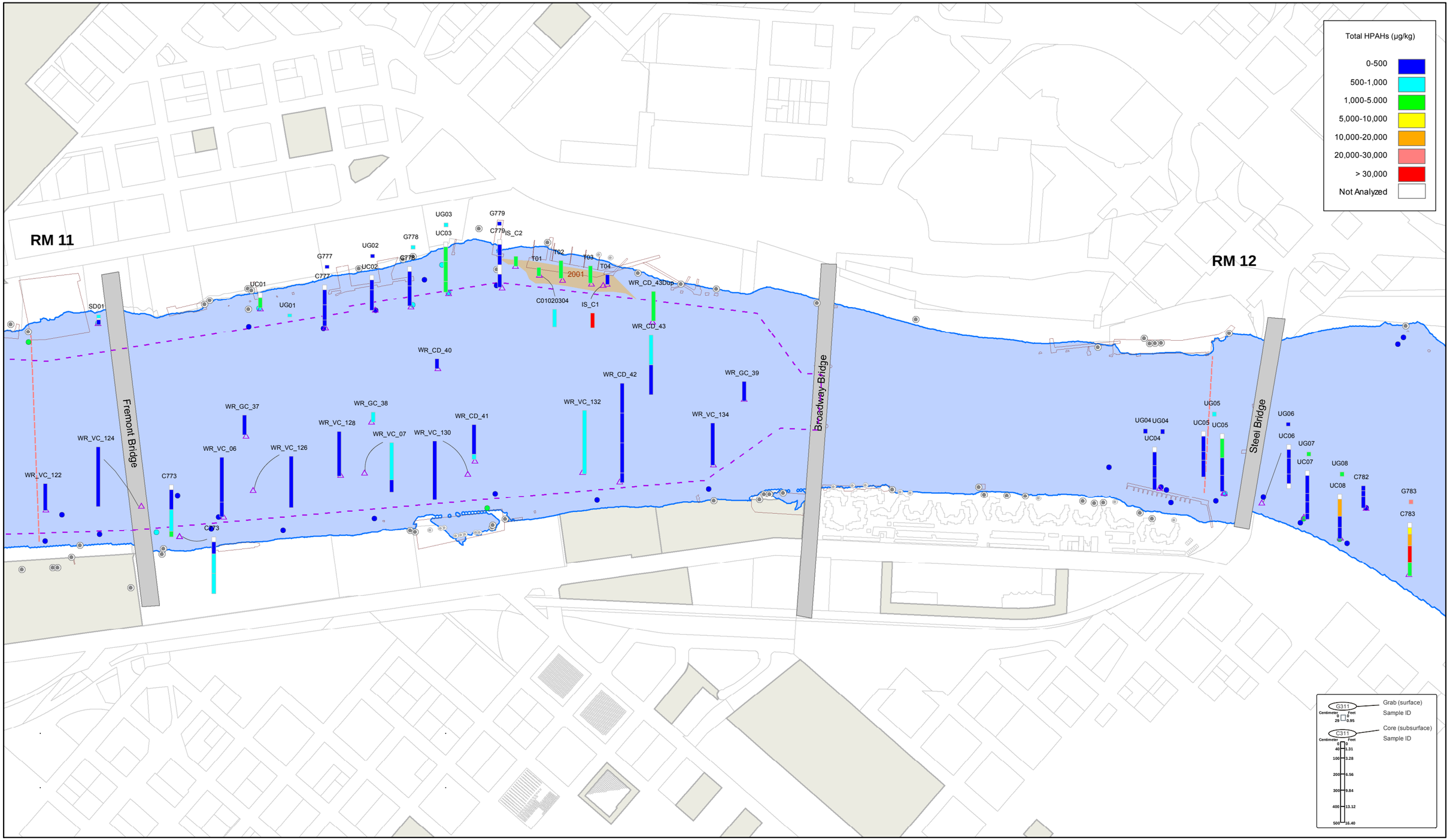
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Docks and Structures
- Bridges
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

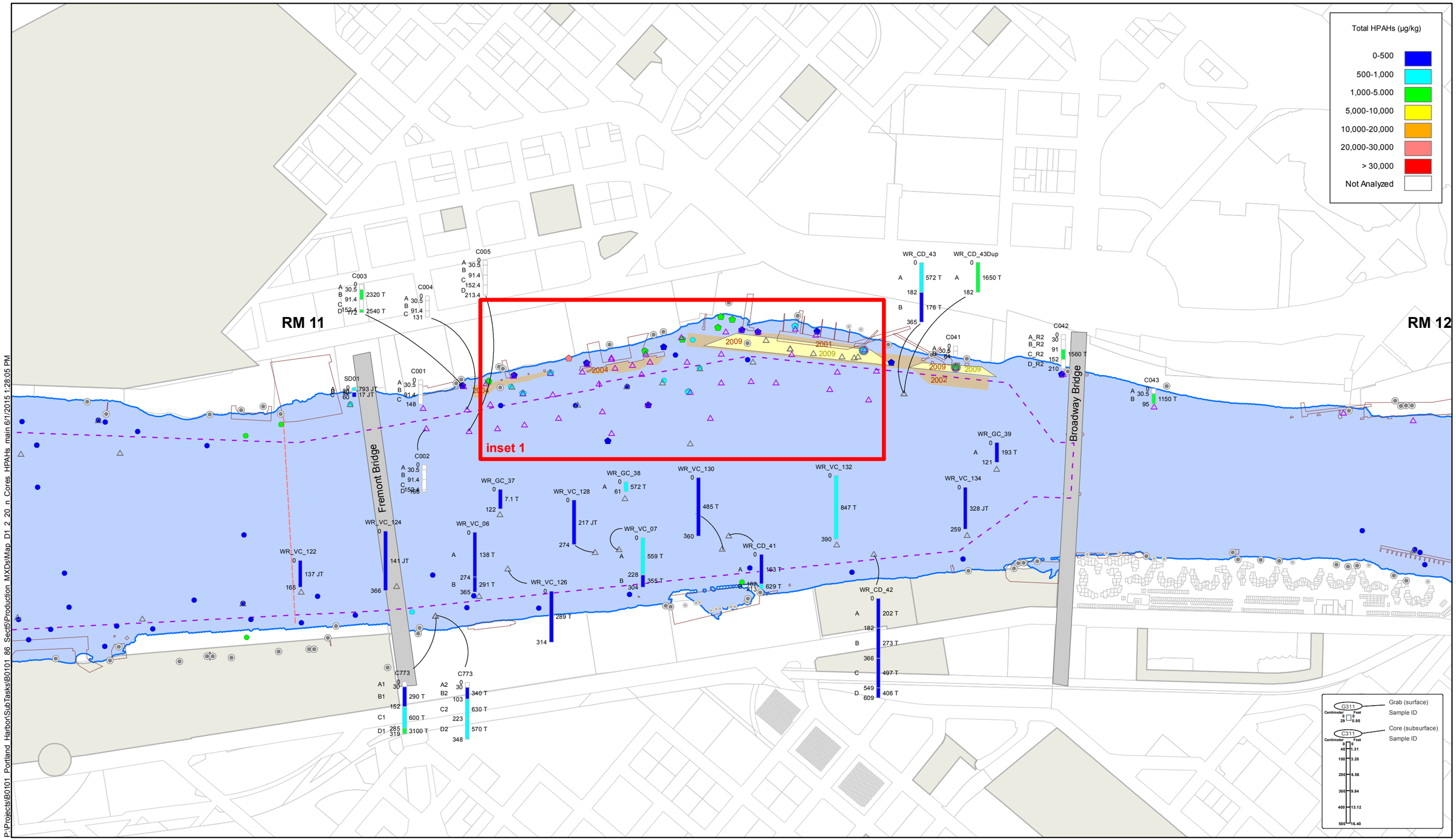
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20 m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
River Mile 11 to 12



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

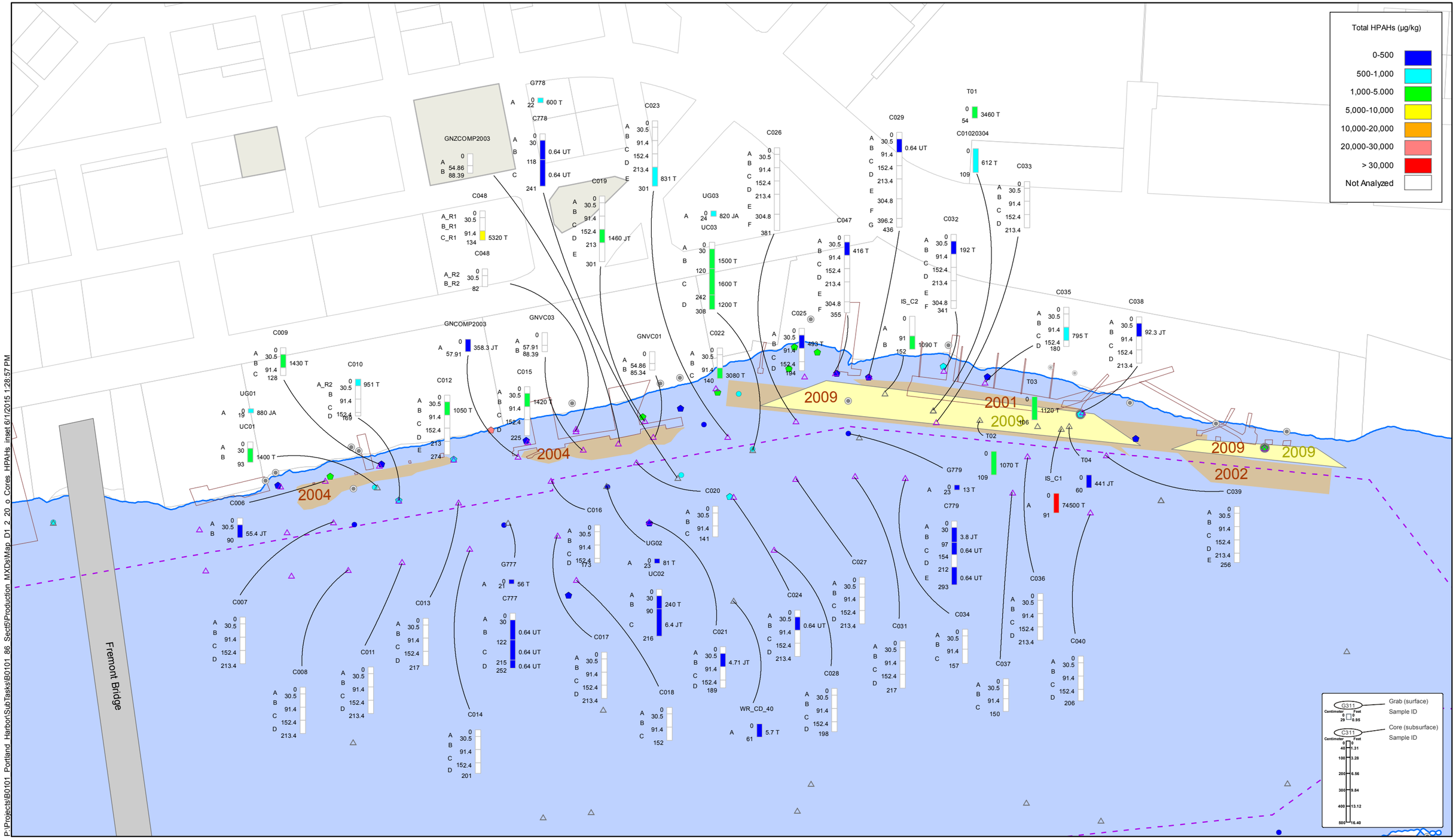
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 11.0 - 11.8



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-20o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)

River Mile 11.0 - 11.8 - Inset 1

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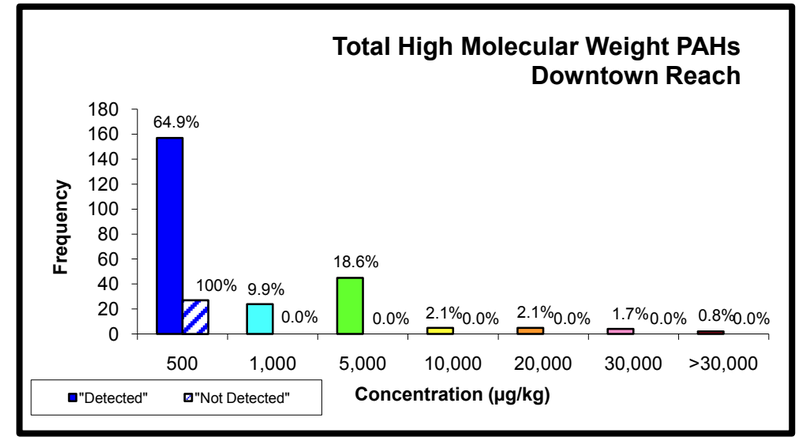


Total HPAHs (µg/kg)

- 0-500
- 500-1,000
- 1,000-5.000
- 5,000-10,000
- 10,000-20,000
- 20,000-30,000
- > 30,000
- Detected
- Not Detected

RM 12

RM 13

RM 14

RM 15

RM 16

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_84M_RI_App_H\Production_MXDs\Dot_Maps_Downtown_First_Revised_Draft\AppH_Map_H4_1_21_HPAH.mxd - 4/21/2011 @ 5:21:25 PM

N

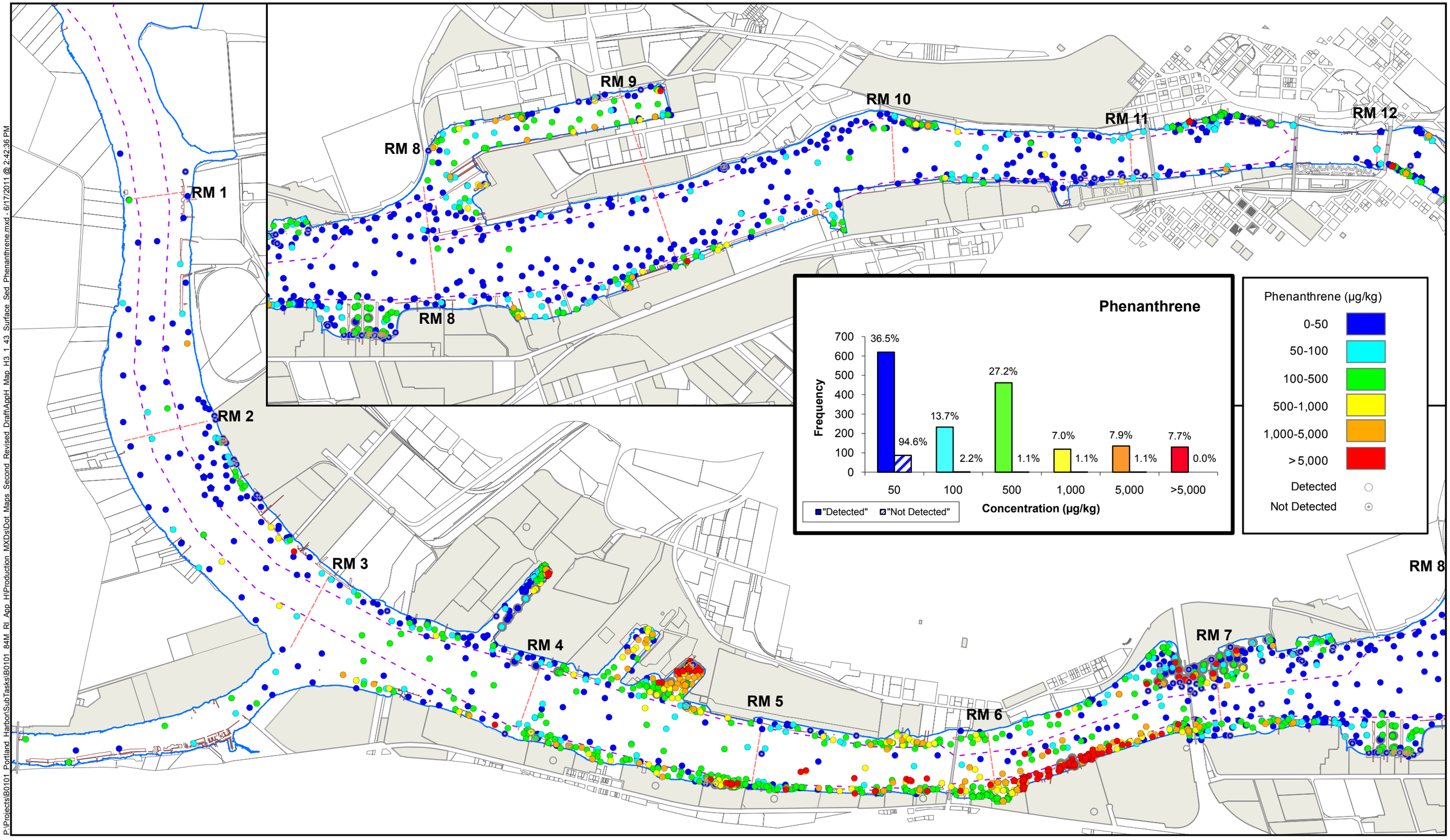
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-21
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total High Molecular Weight PAHs (µg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

N

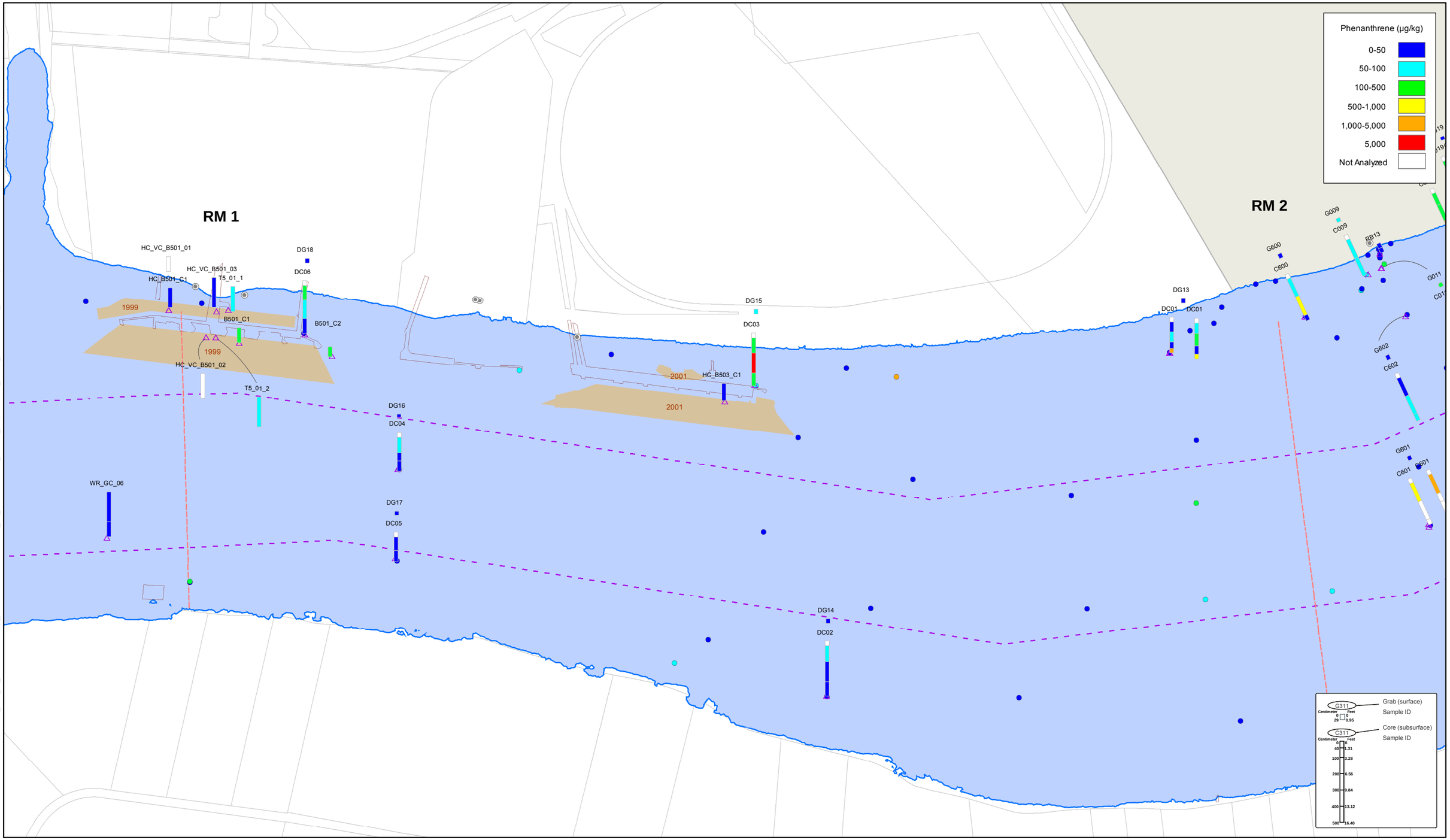
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-22
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Phenanthrene (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-16_Cores_Phenanthrene_Main.mxd) - 3/6/2009 -- 12:36:05 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

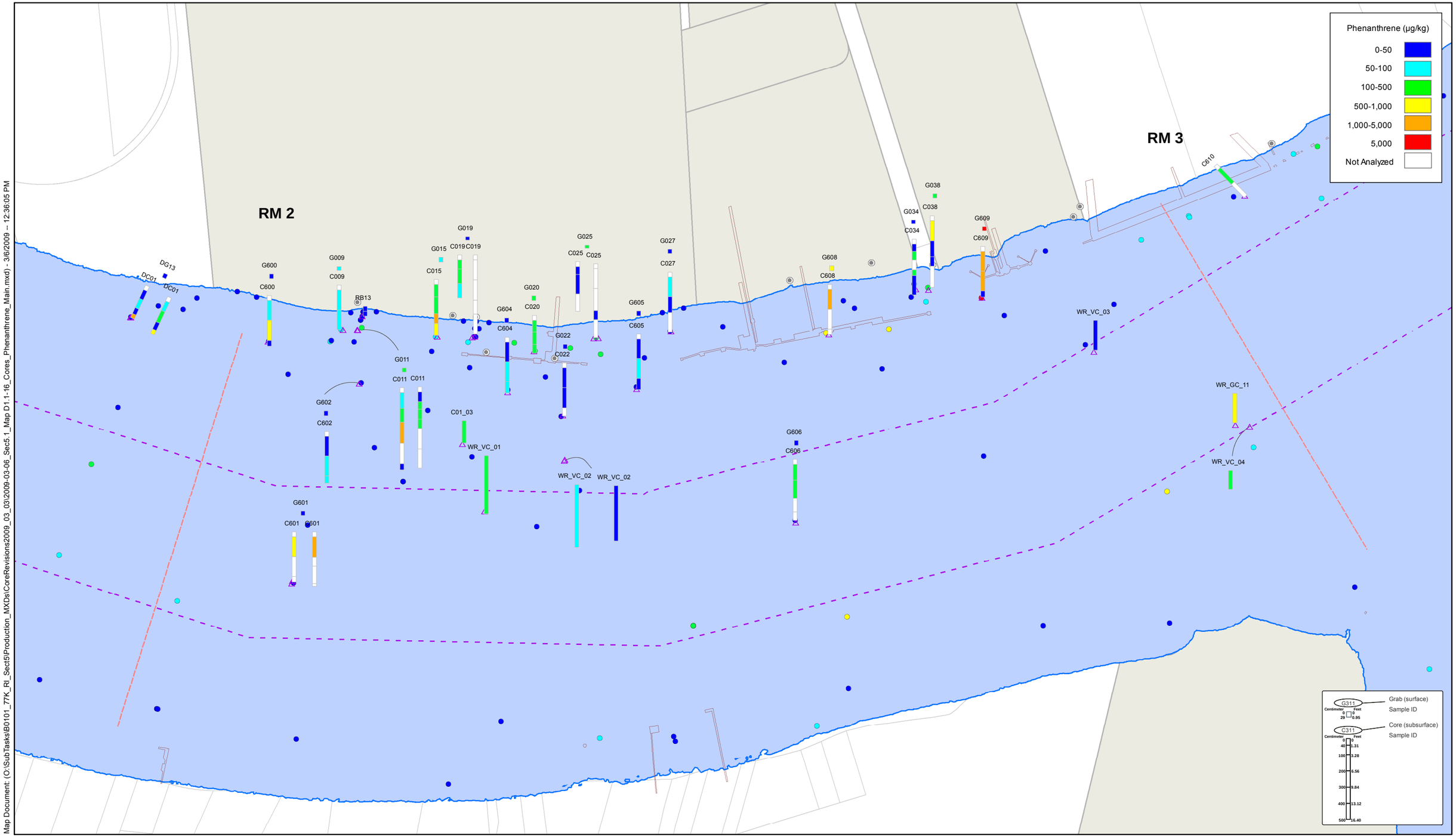
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 01 to 02



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

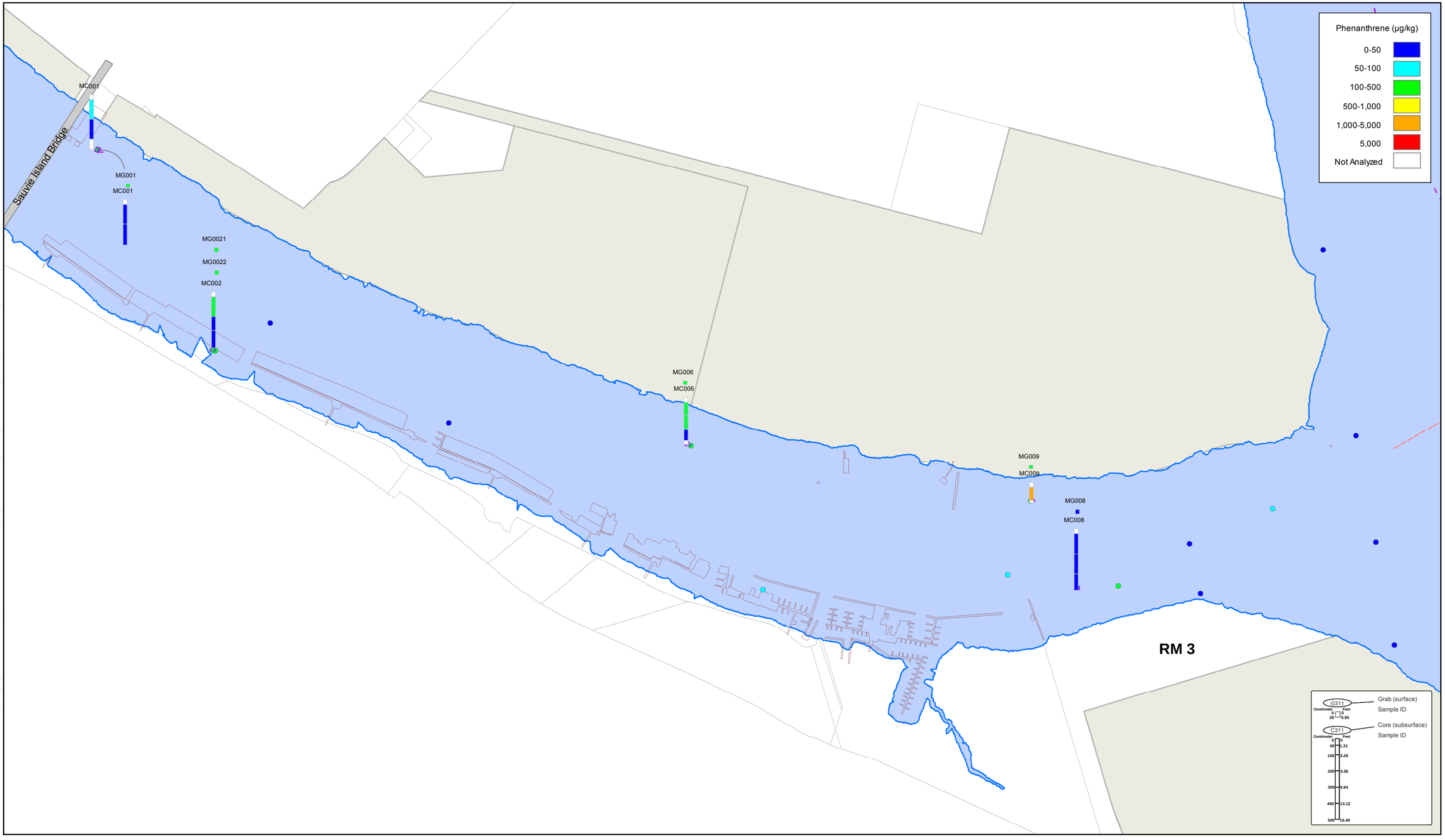
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 02 to 03



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

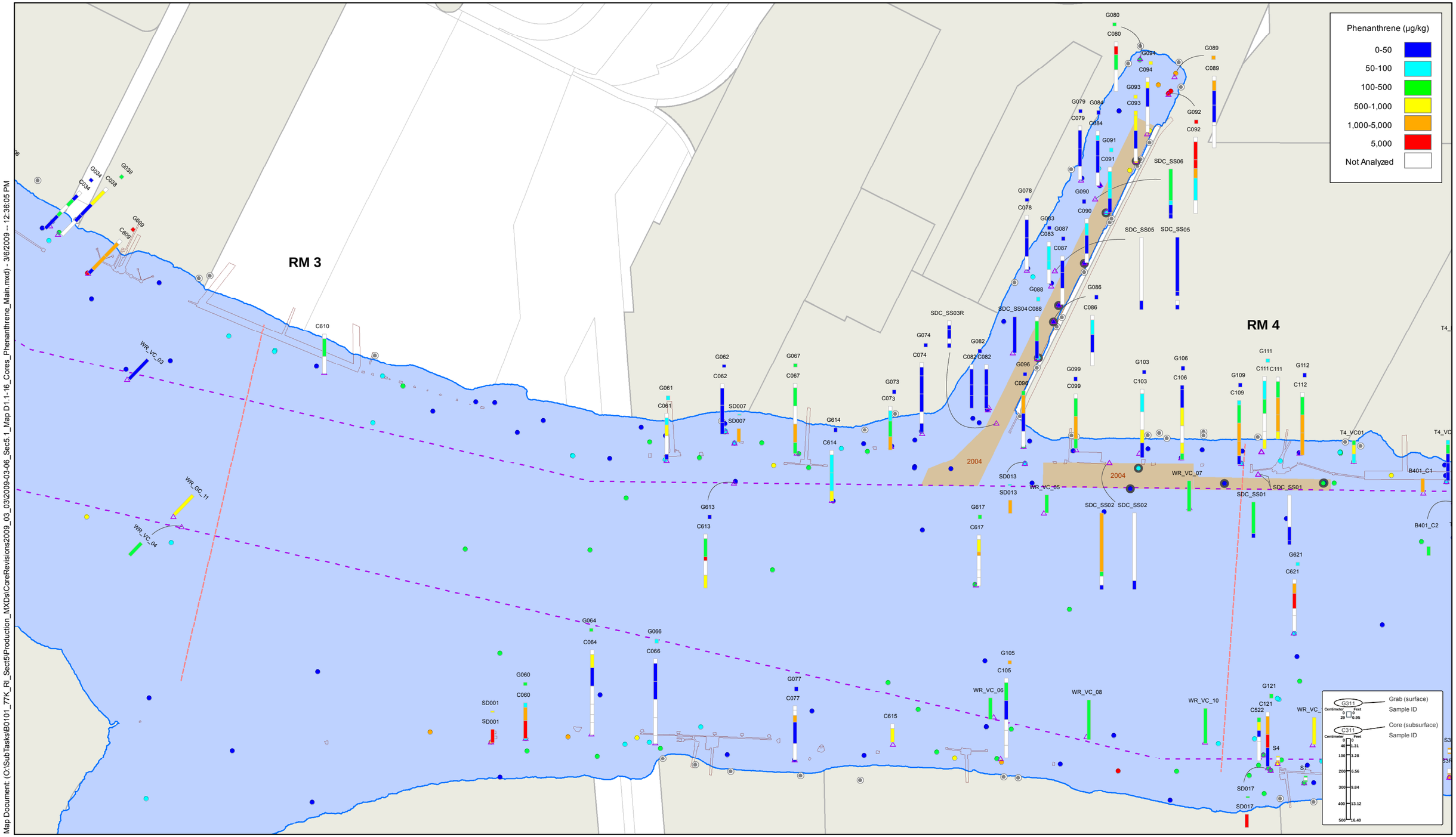
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

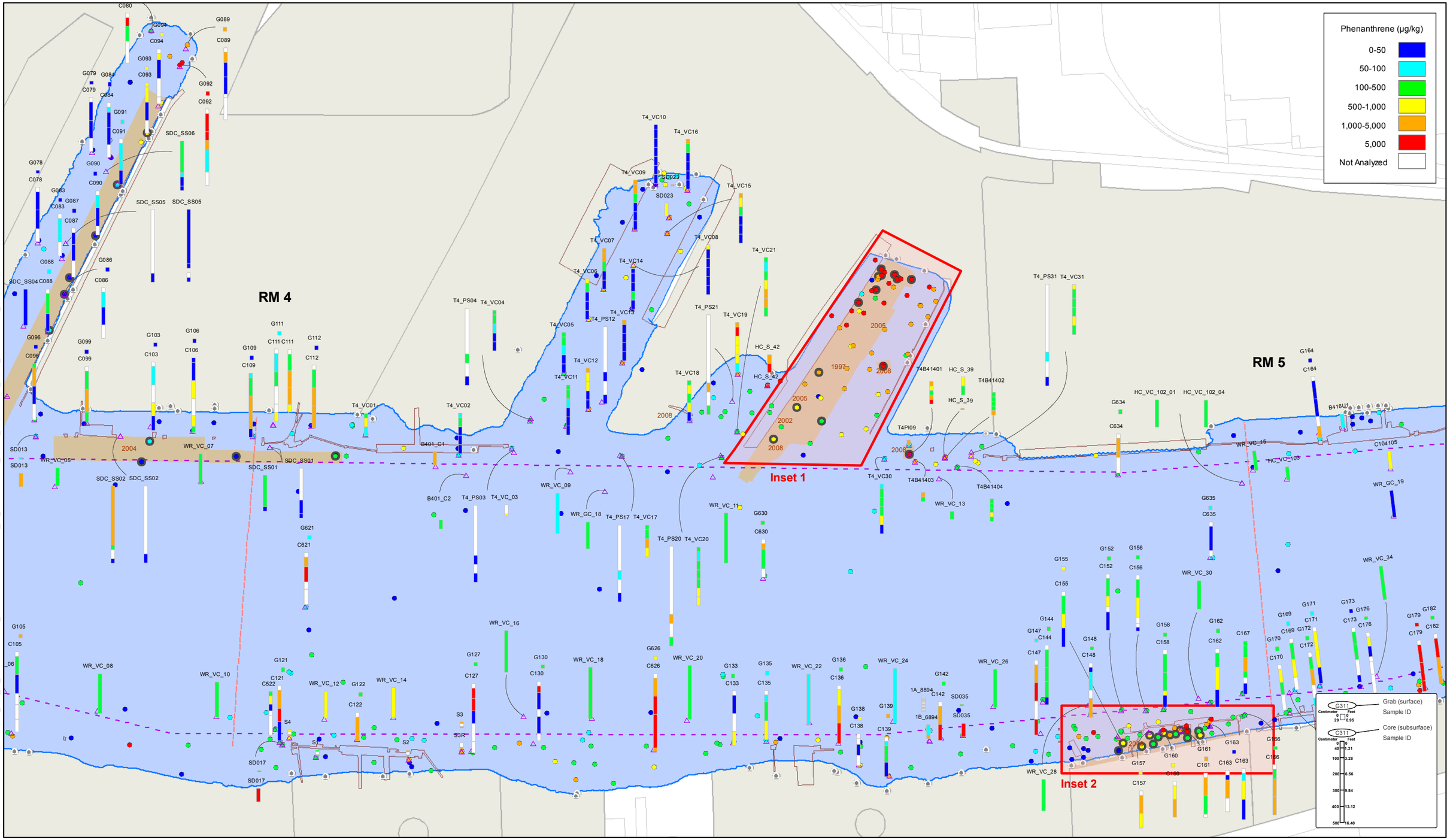
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 03 to 04

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-16_Cores_Phenanthrene_Main.mxd) - 3/6/2009 -- 12:36:05 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

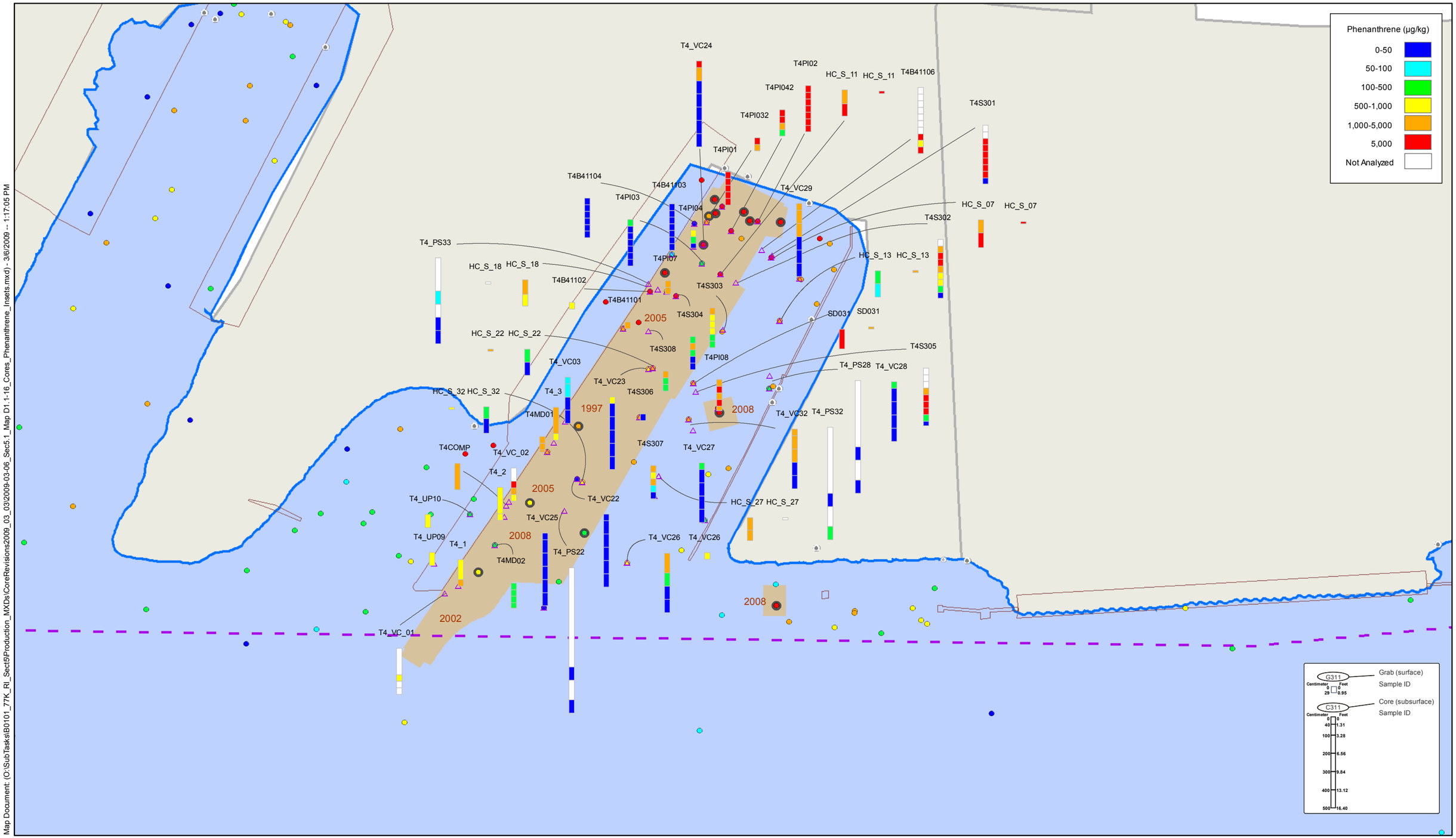
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 04 to 05 - Slips



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

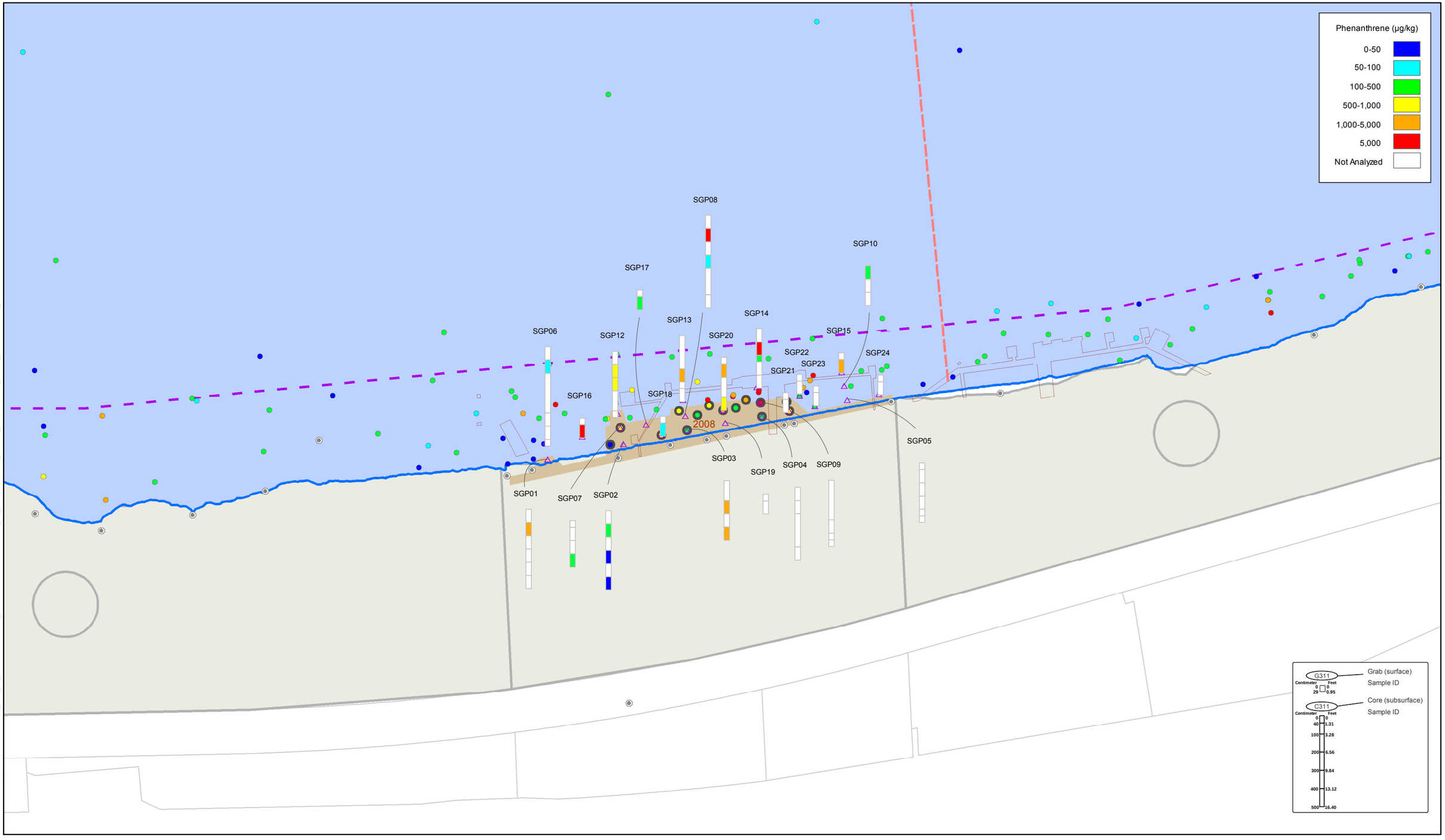
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 04 to 05 - Slips - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

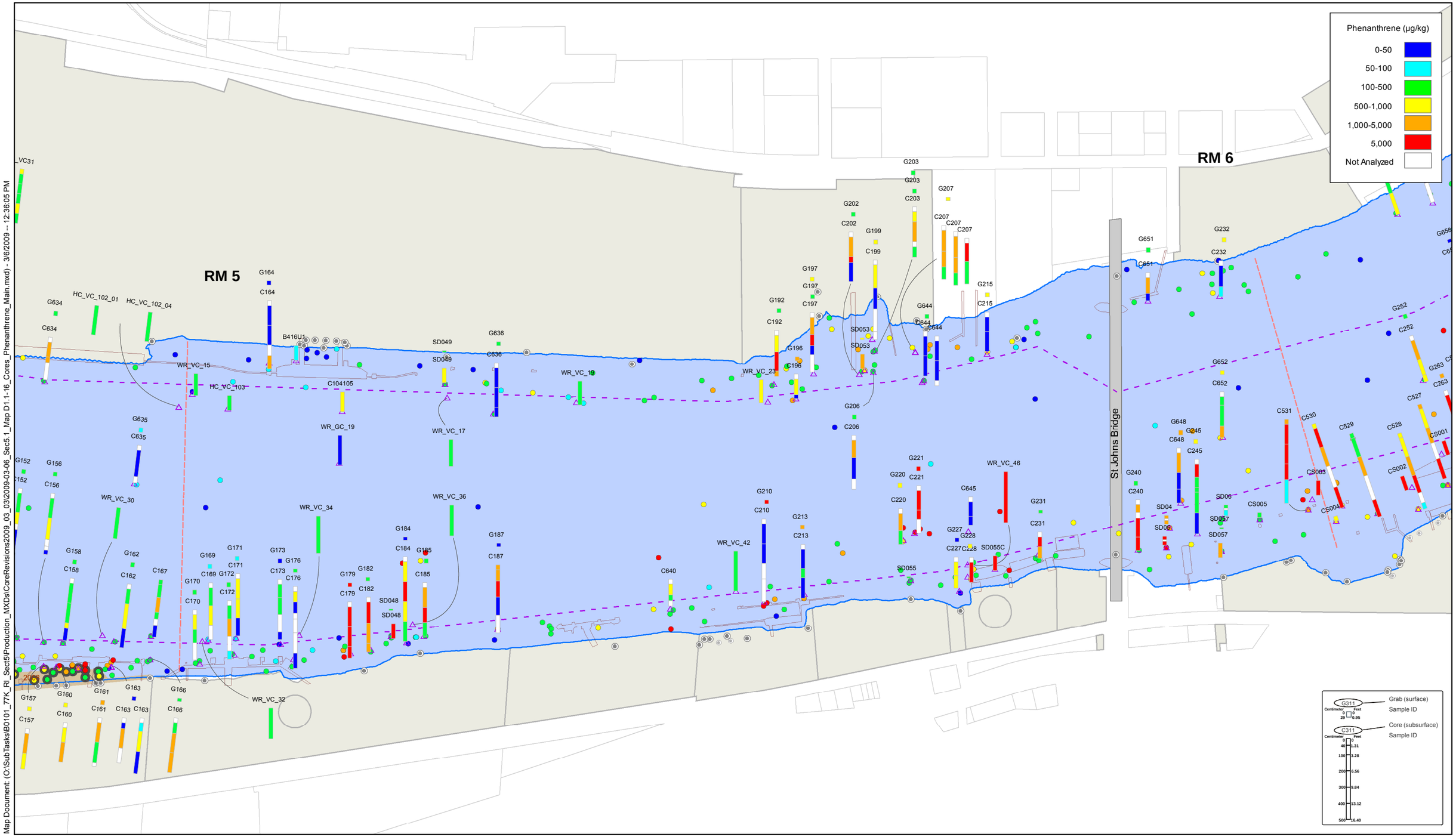
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

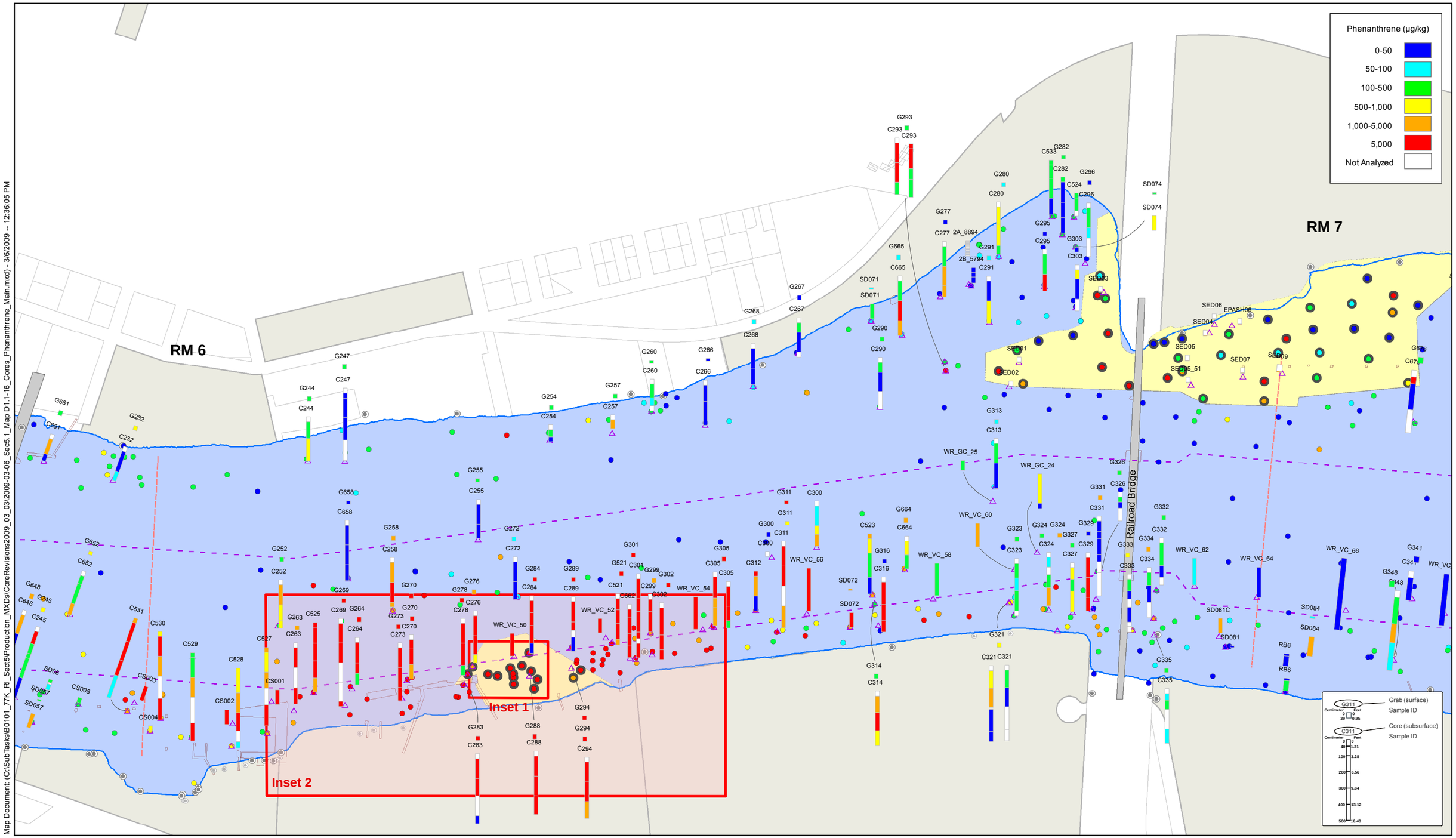
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 05 to 06



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

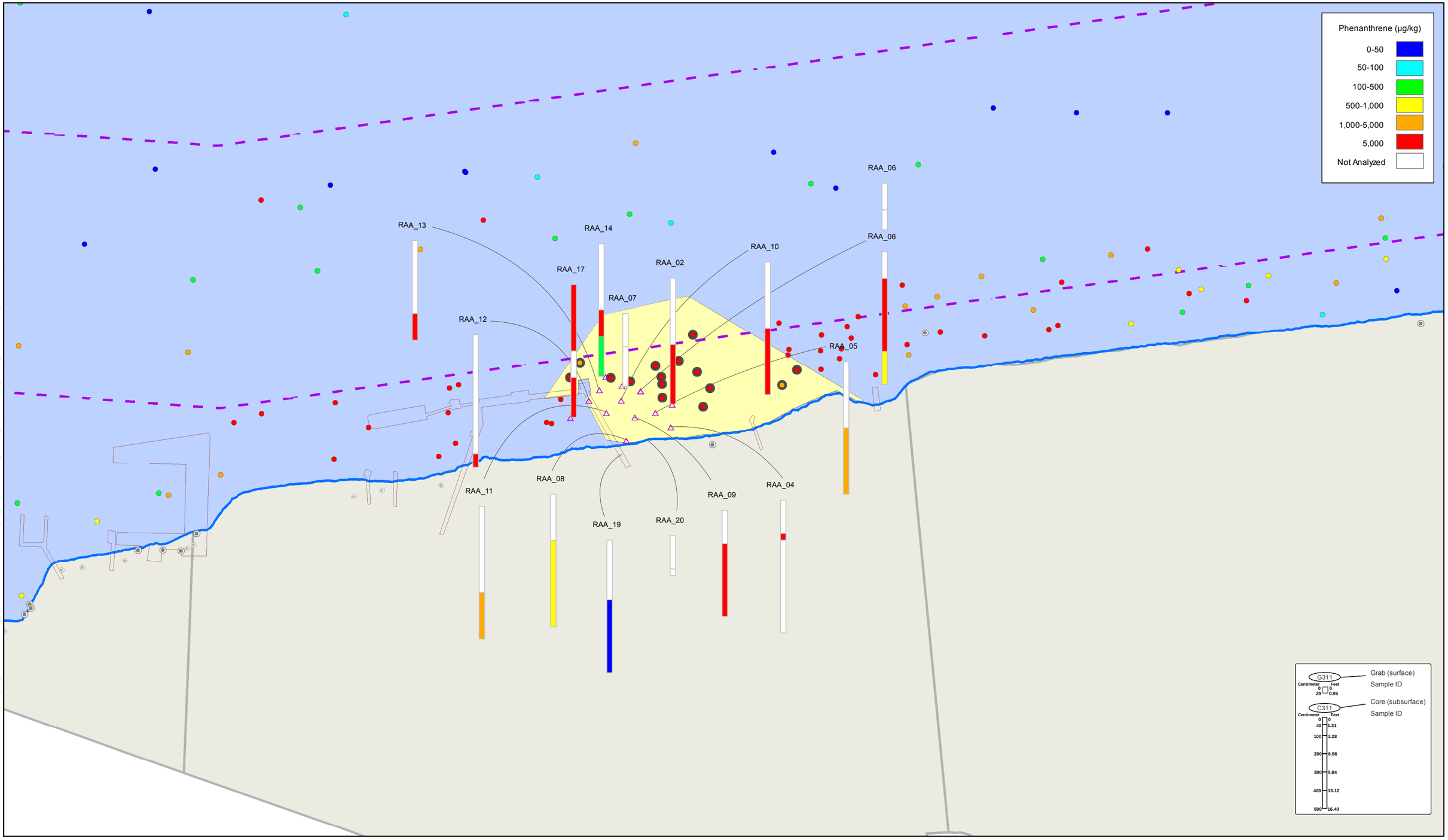
Map Features
- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

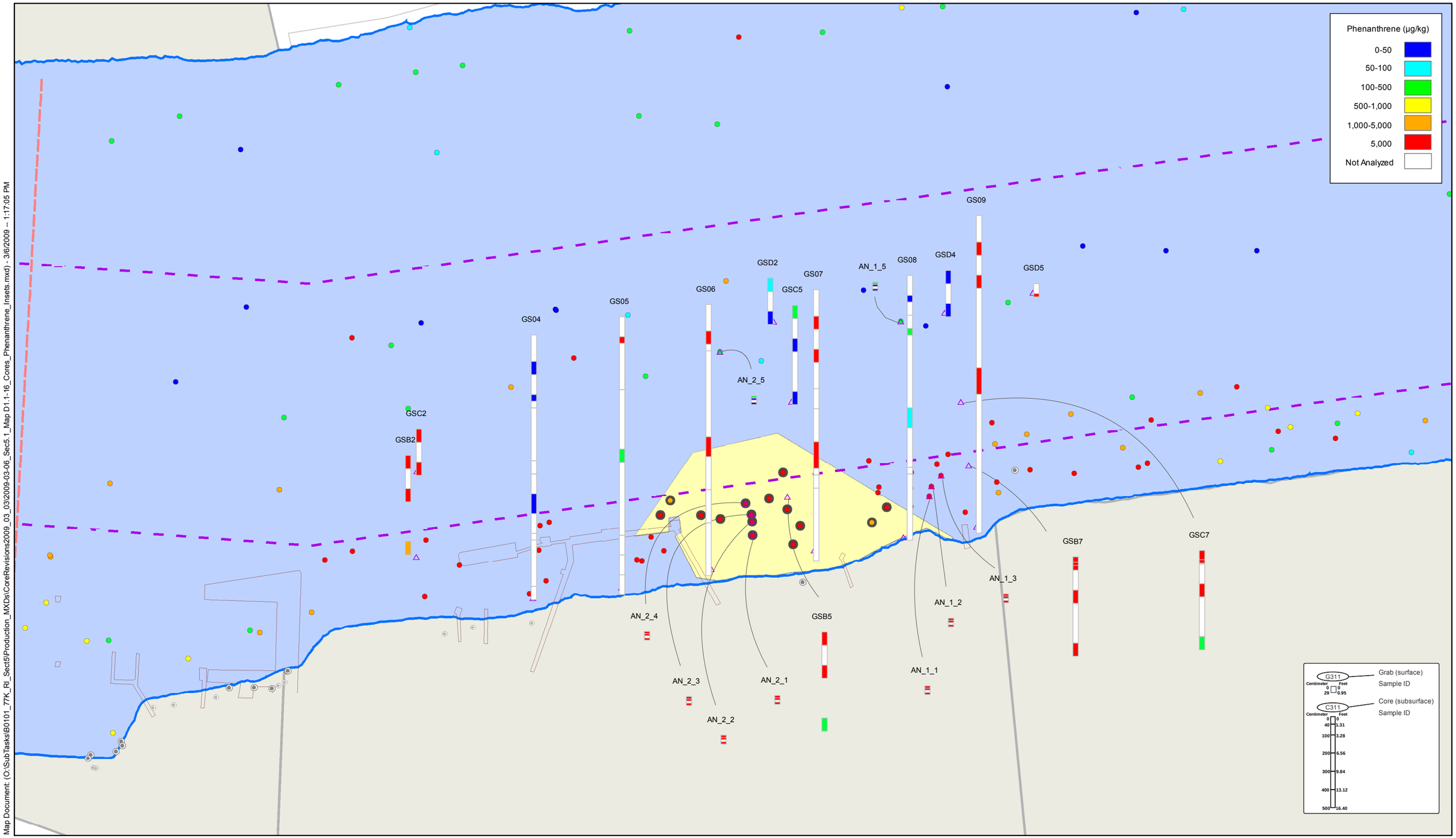
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

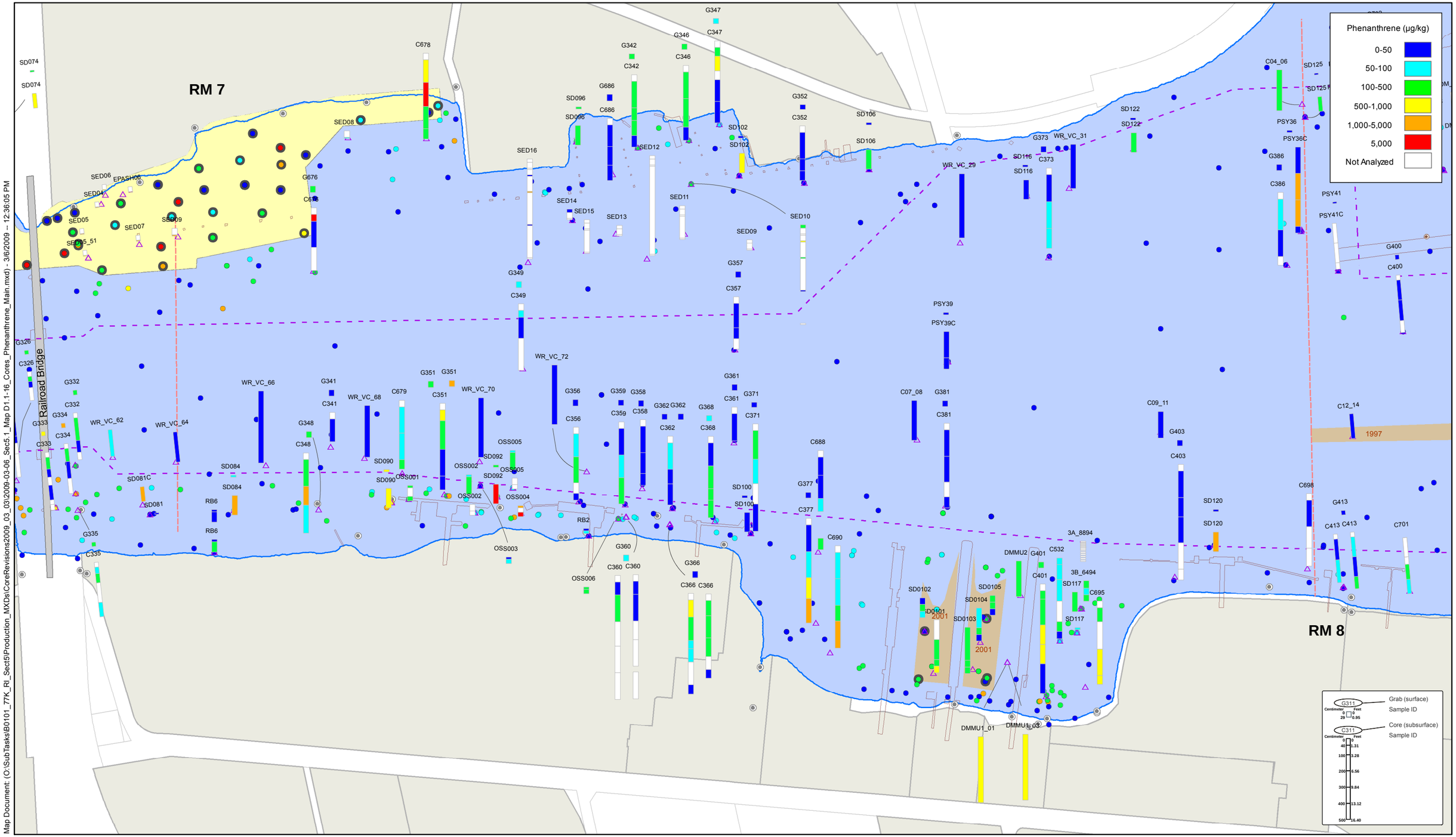
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

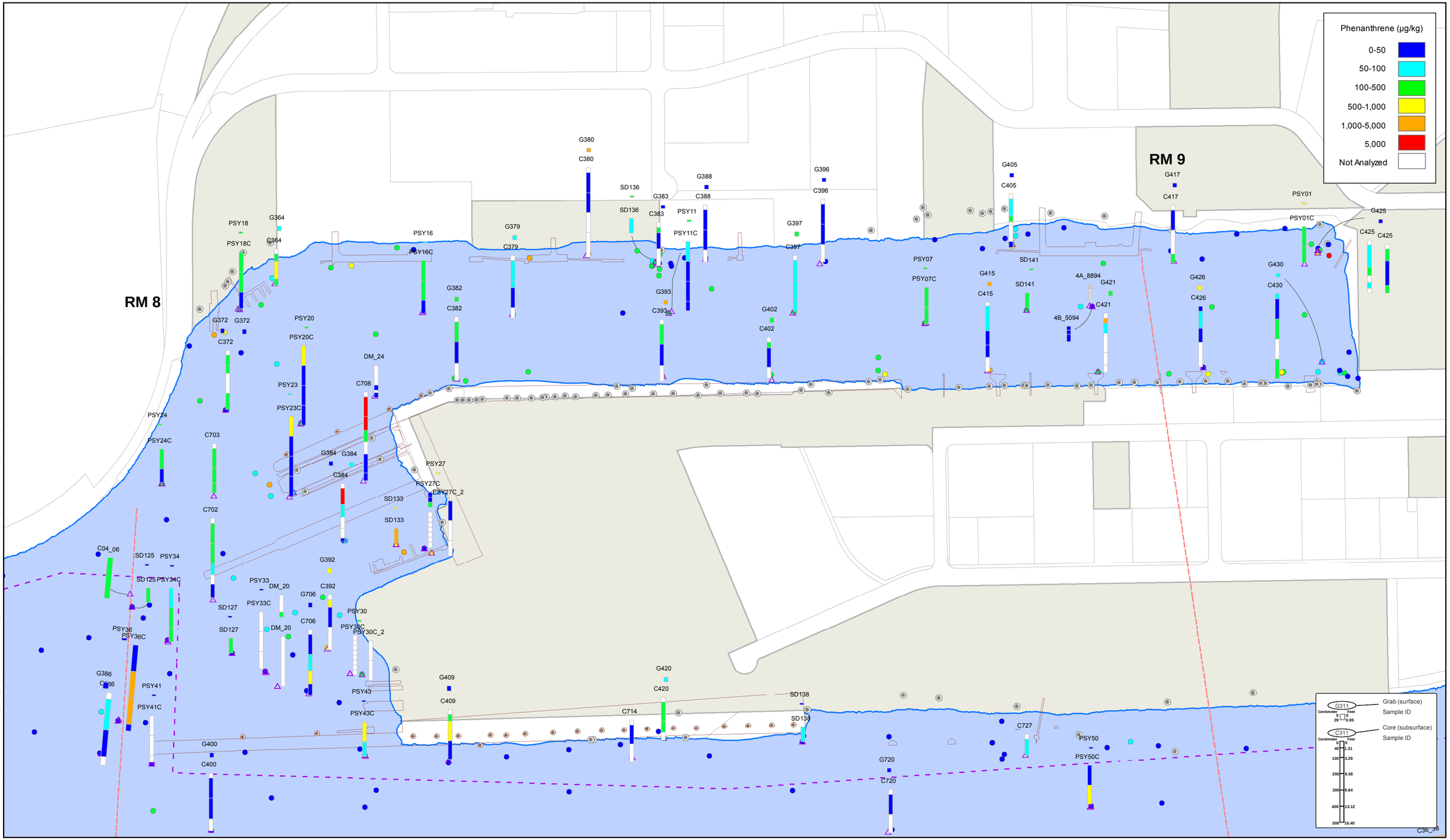
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23h

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

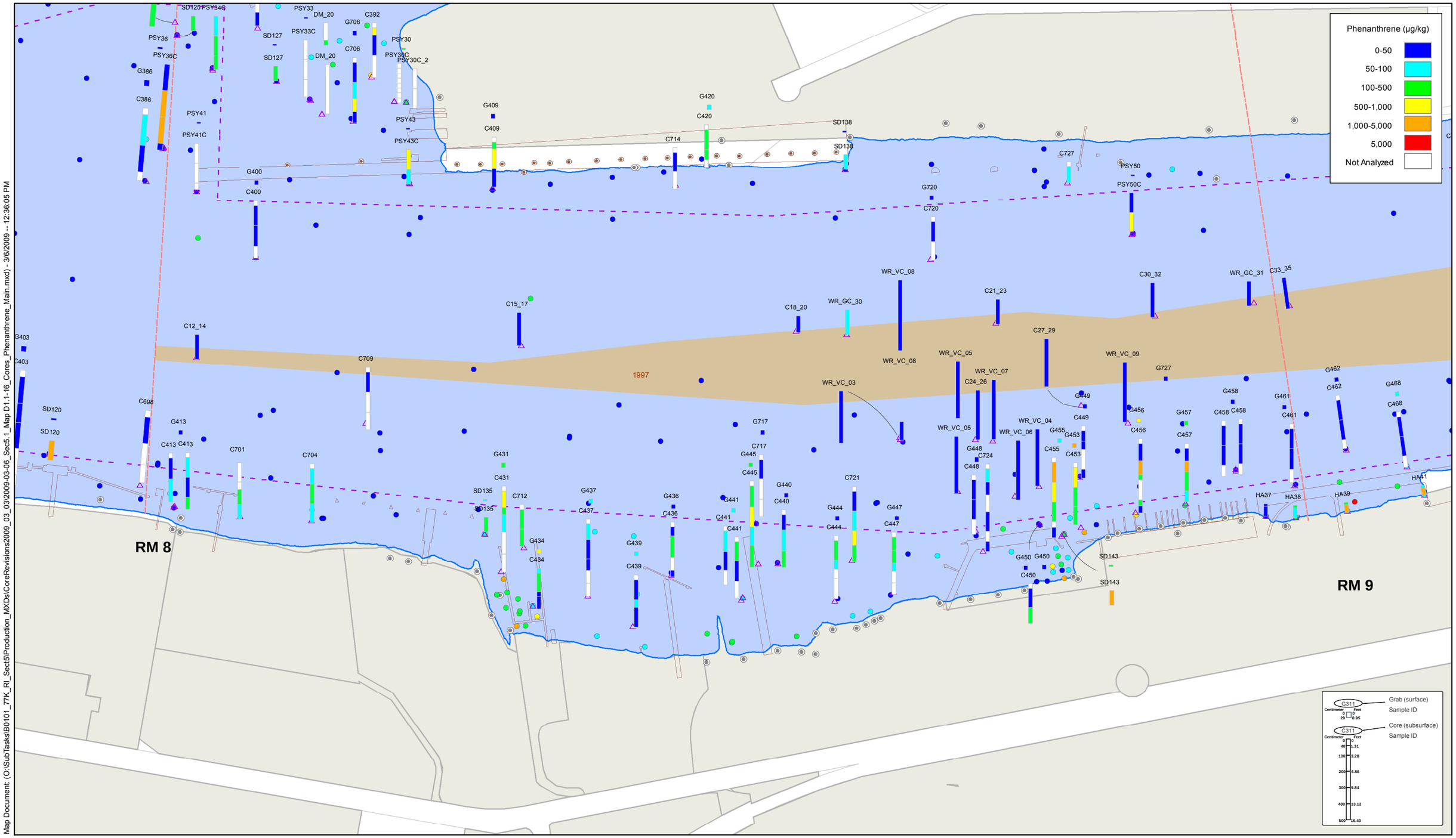
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

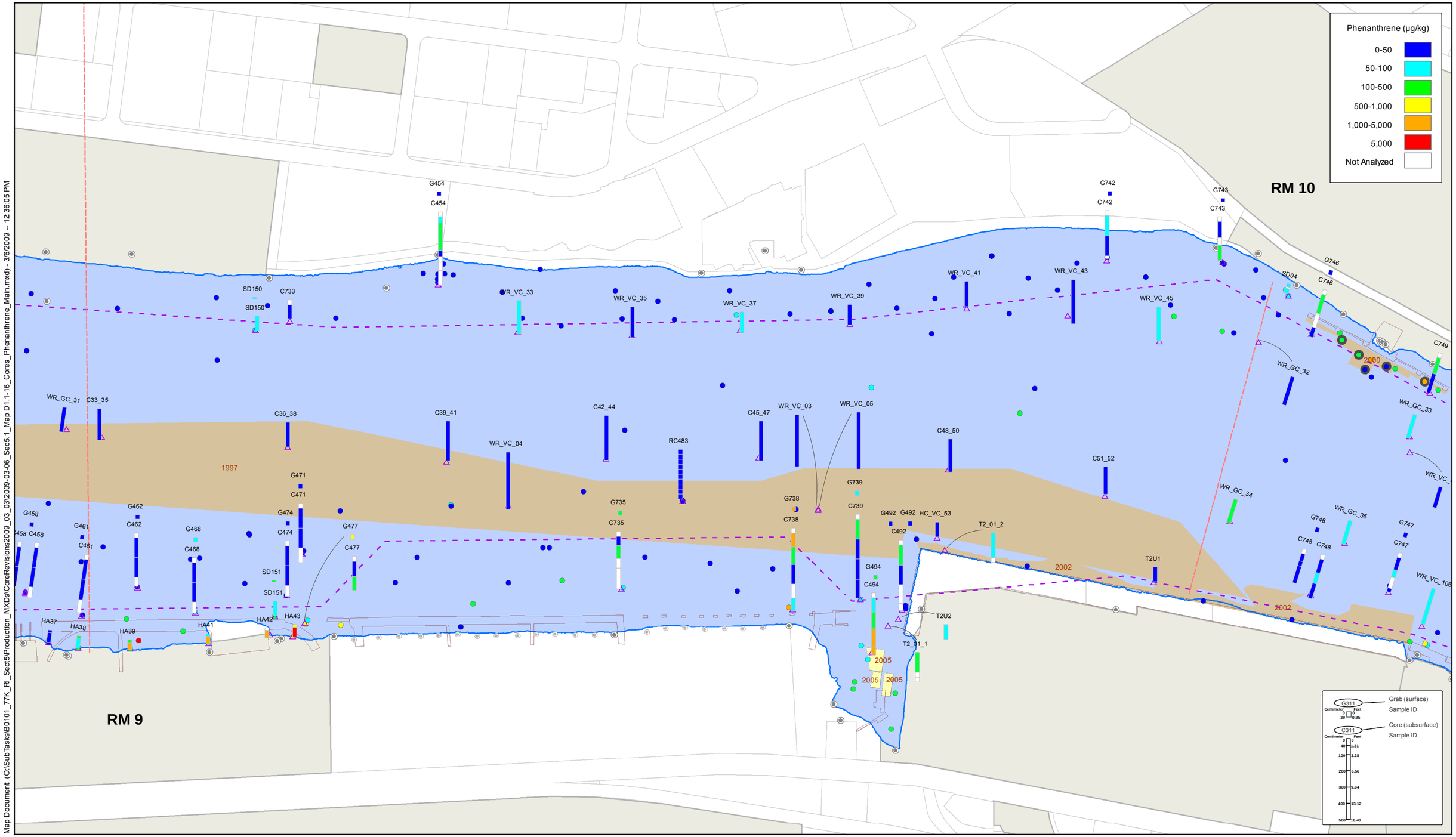
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 08 to 09 - Swan Is. West



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

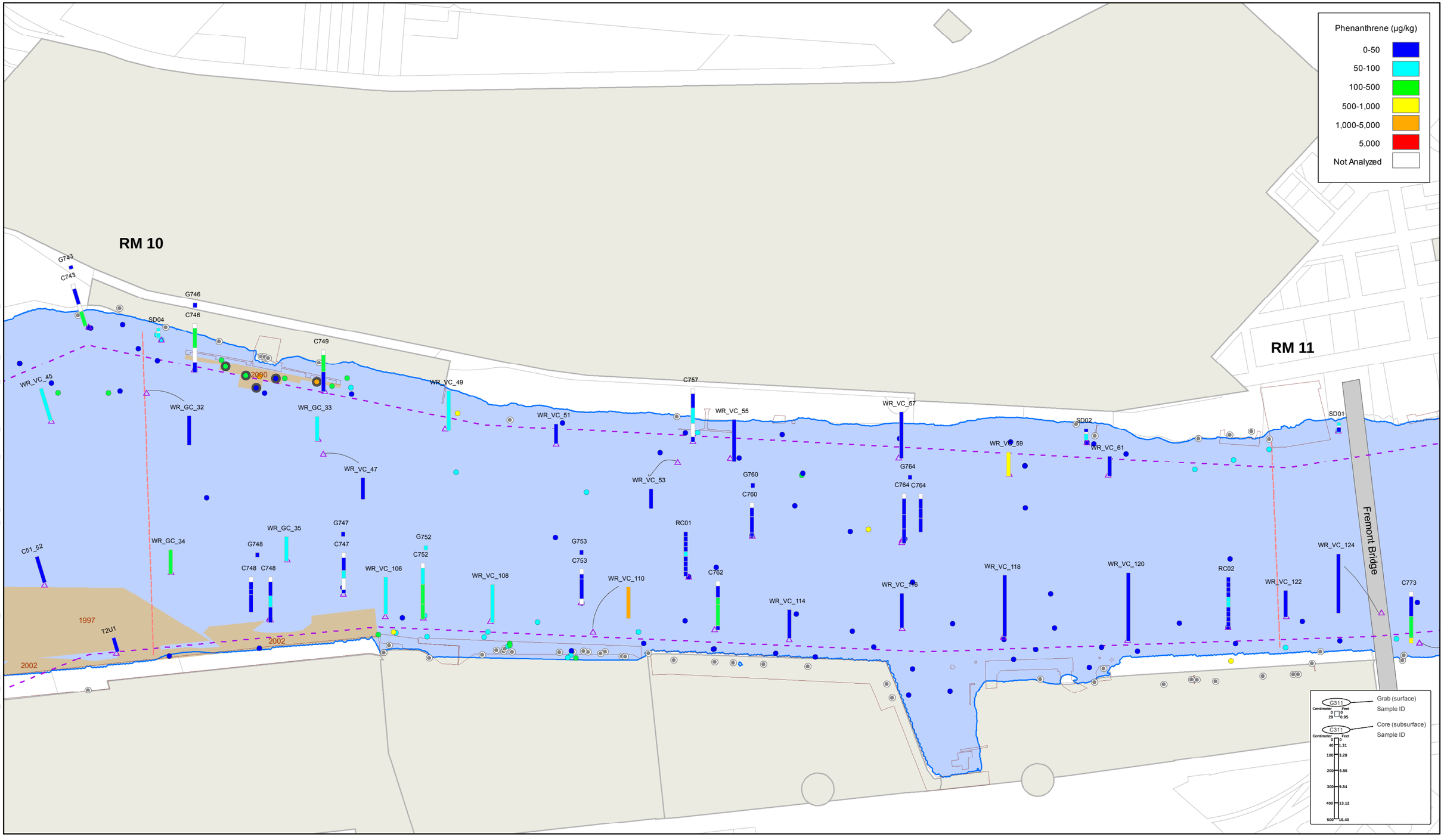
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-16_Cores_Phenanthrene_Main.mxd) - 3/6/2009 -- 12:36:05 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

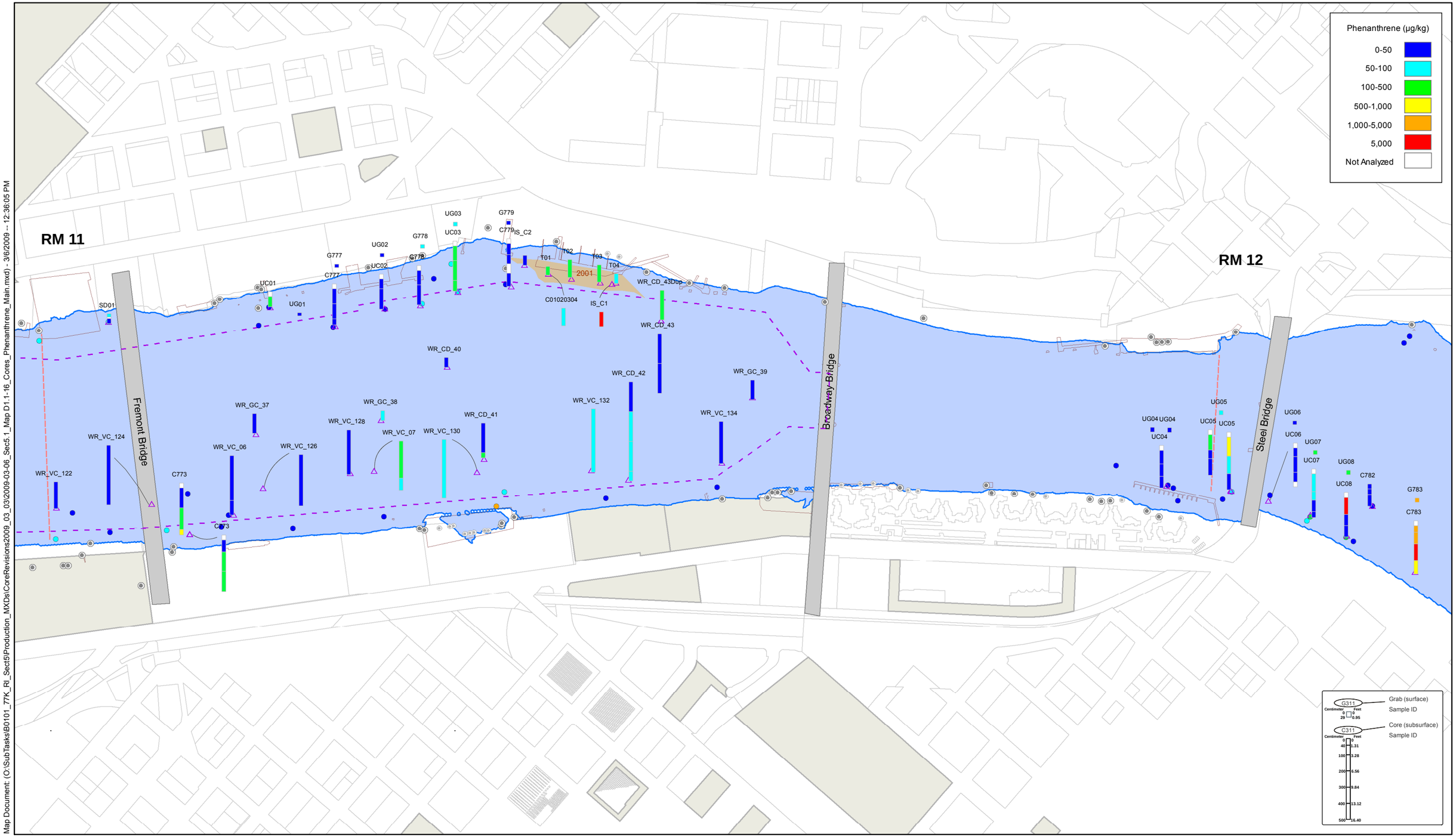
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 10 to 11



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

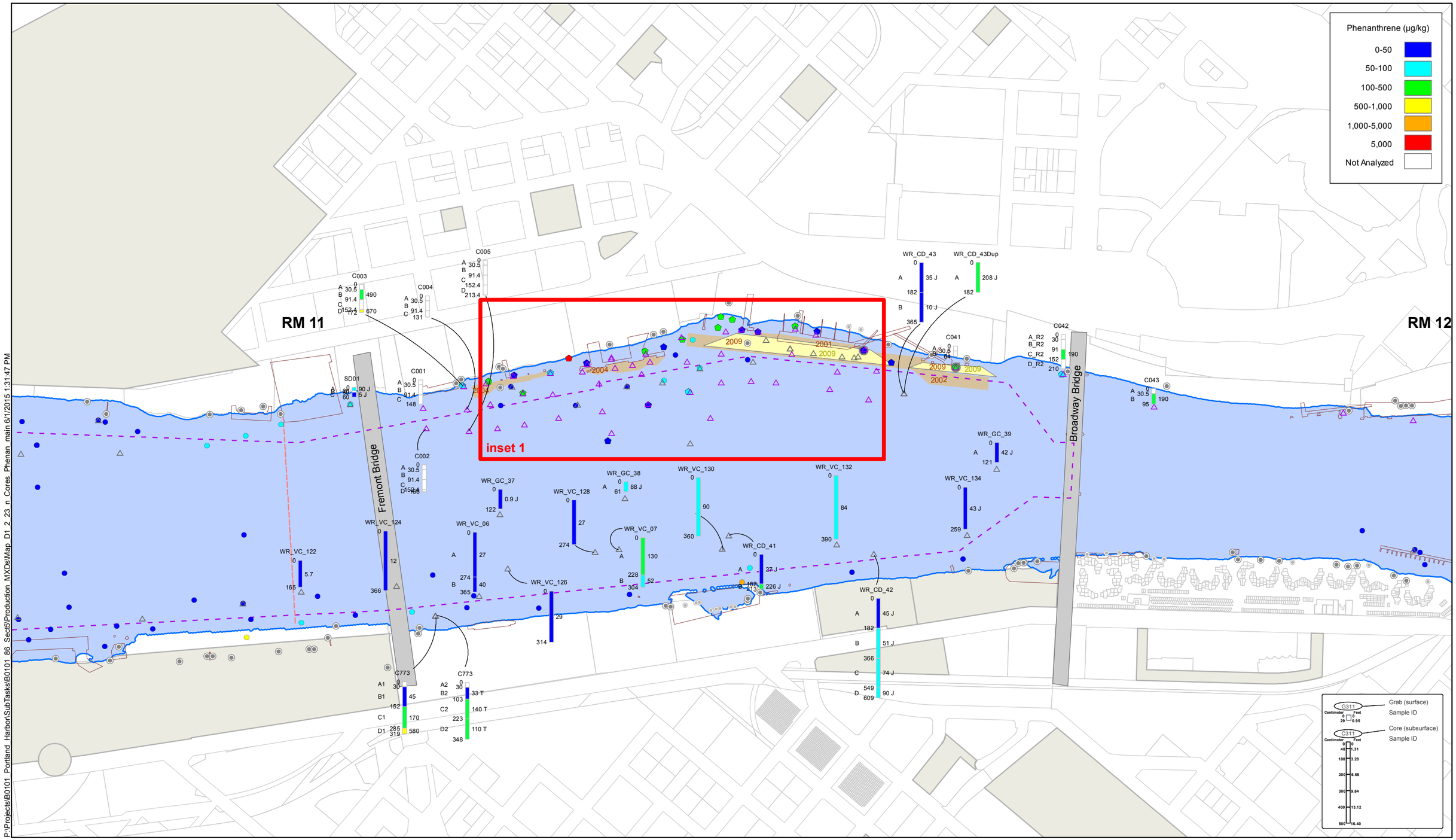
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23 m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)
River Mile 11 to 12

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-16_Cores_Phenanthrene_Main.mxd) - 3/6/2009 -- 12:36:05 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 11.0 - 11.8

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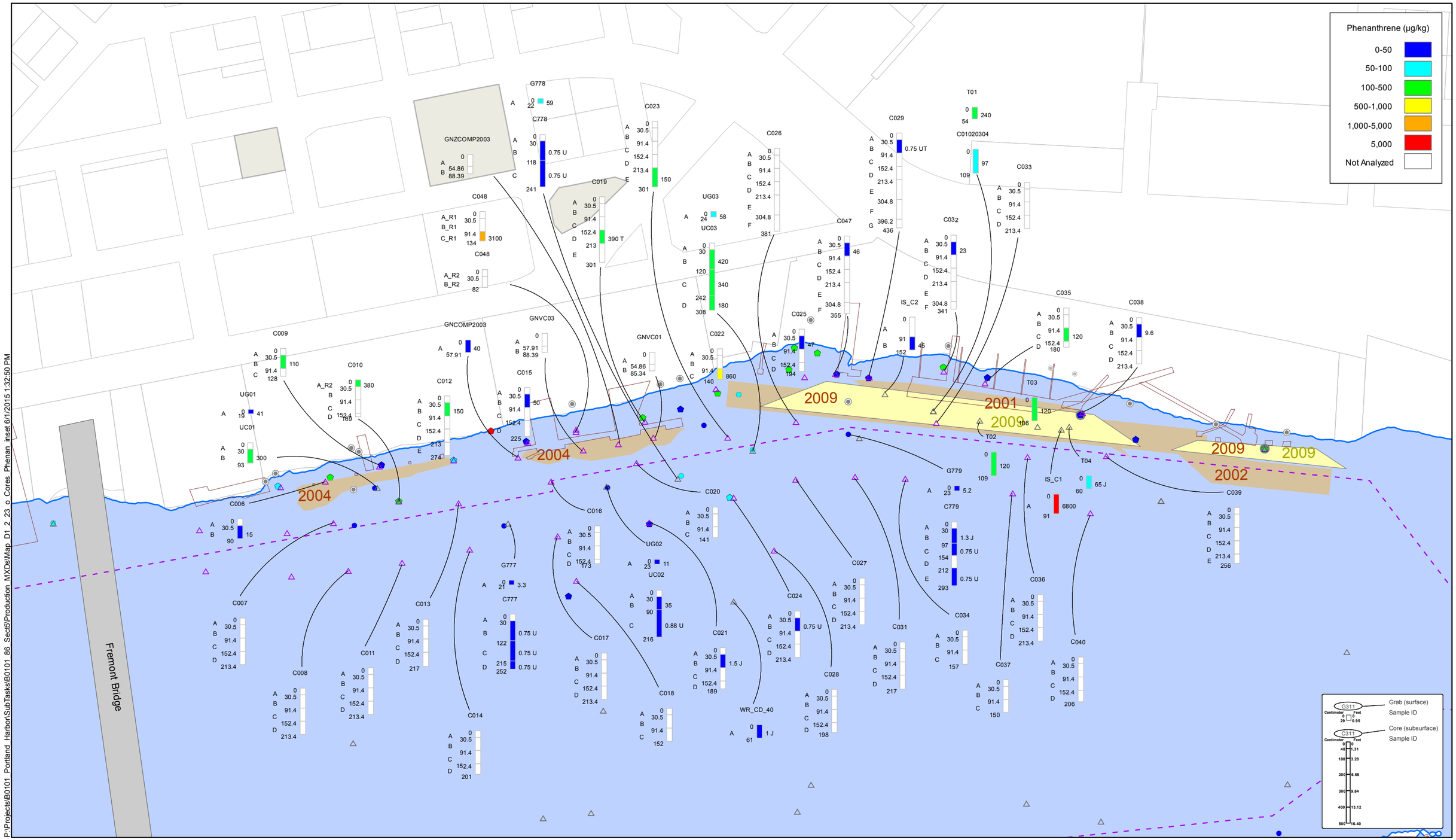

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

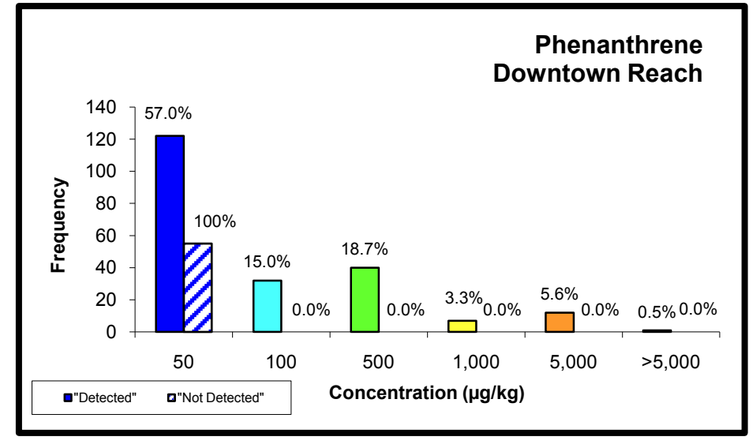
Outfalls
- Outfall
- Dock Drain
- Roof Drain

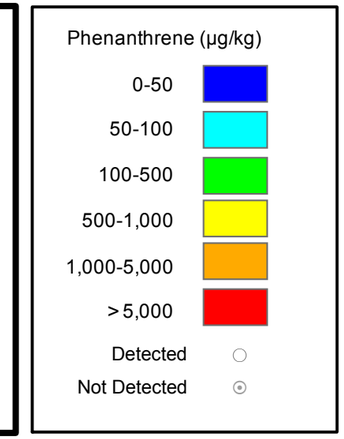
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

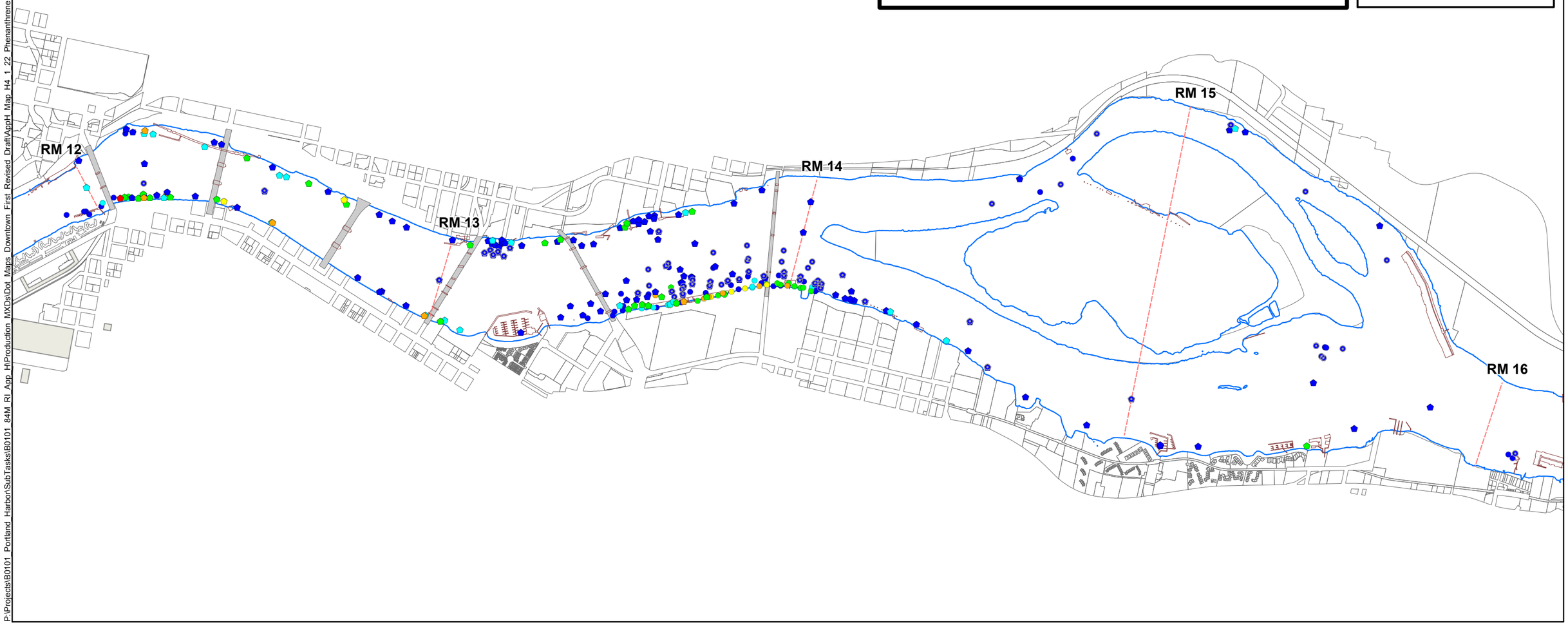
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-23o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Phenanthrene (µg/kg)

River Mile 11.0 - 11.8 - Inset 1







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N

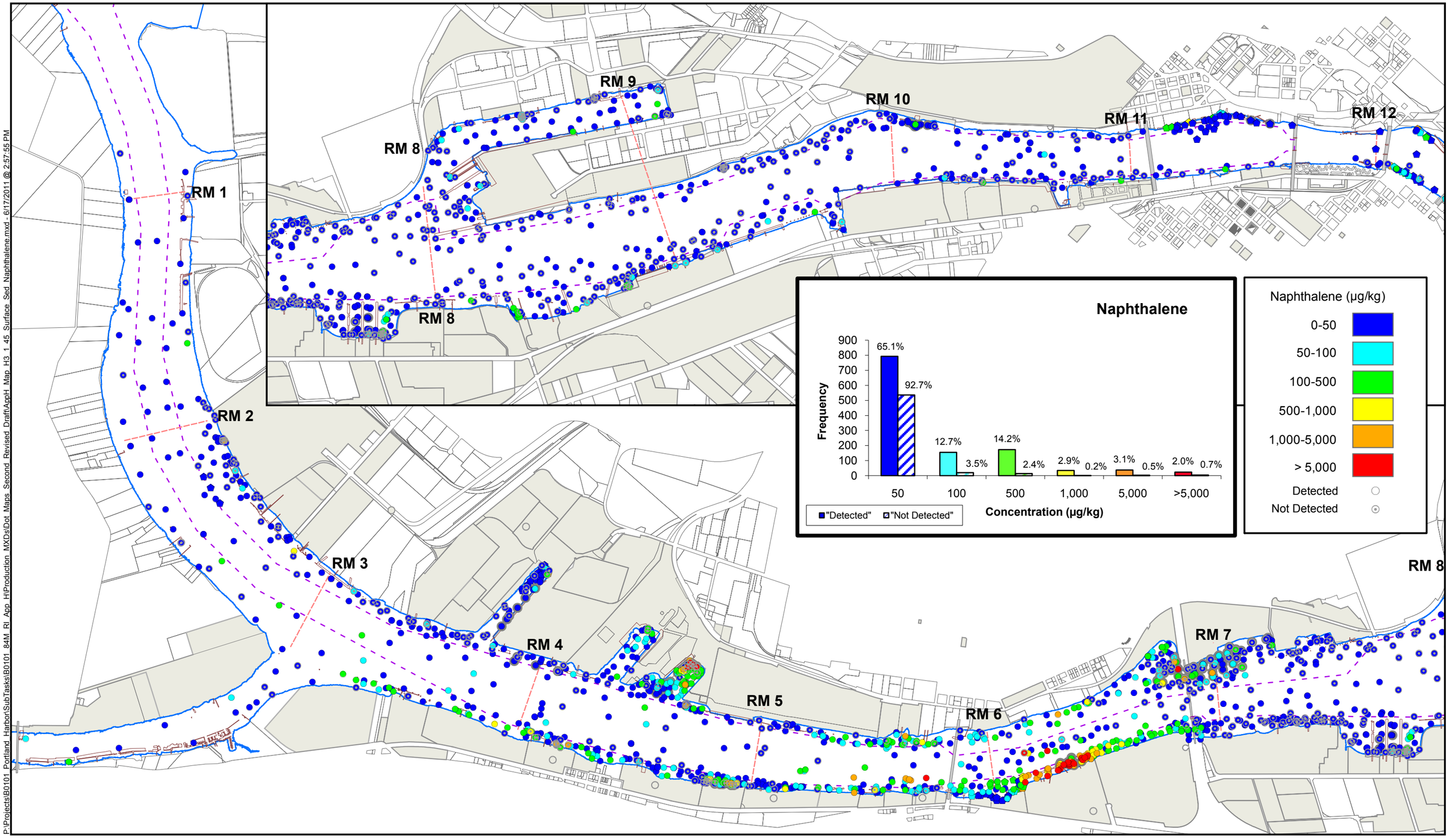
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-24
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Phenanthrene (µg/kg)
Downtown Reach



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N

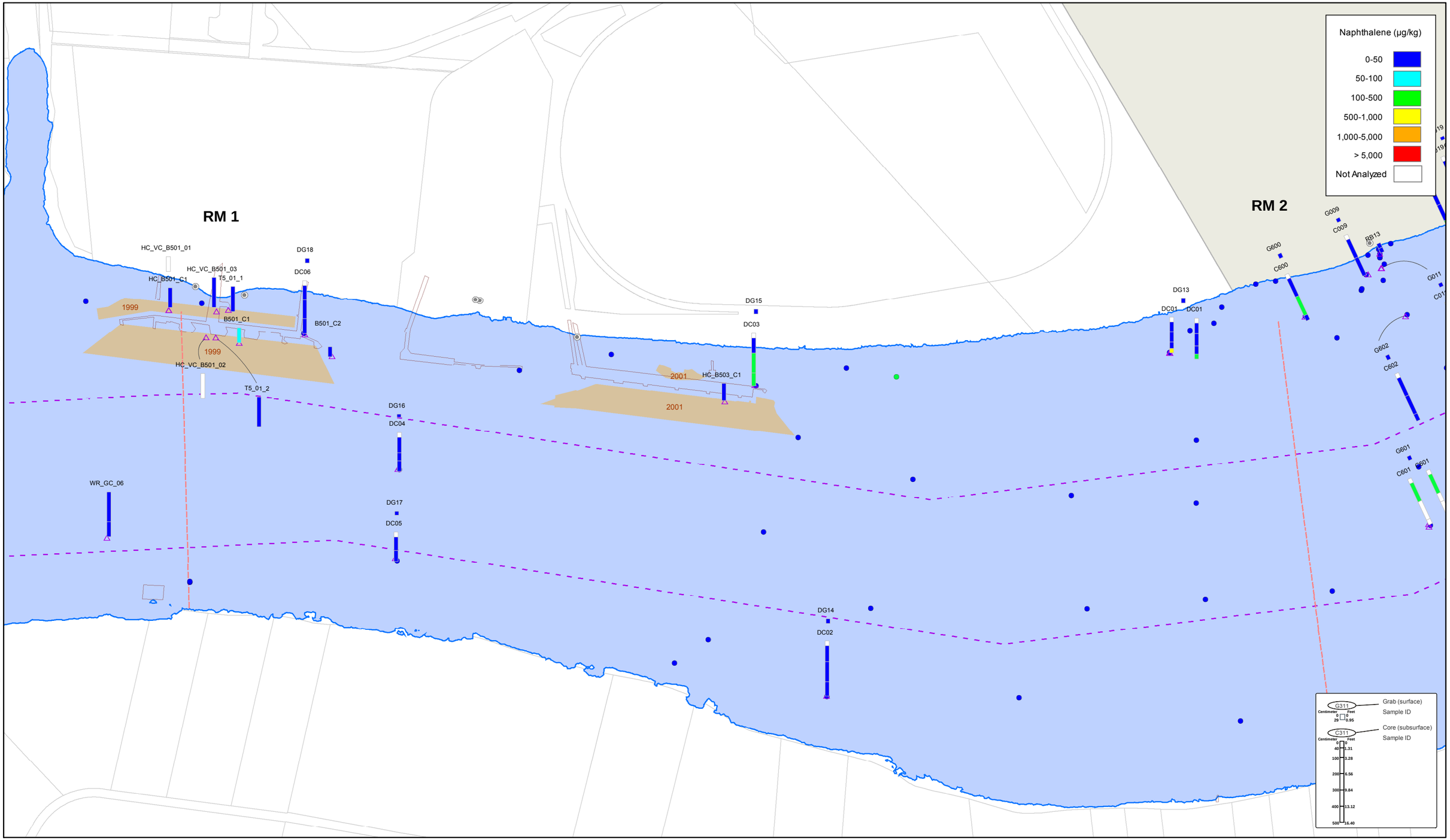
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-25
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Naphthalene (µg/kg)



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

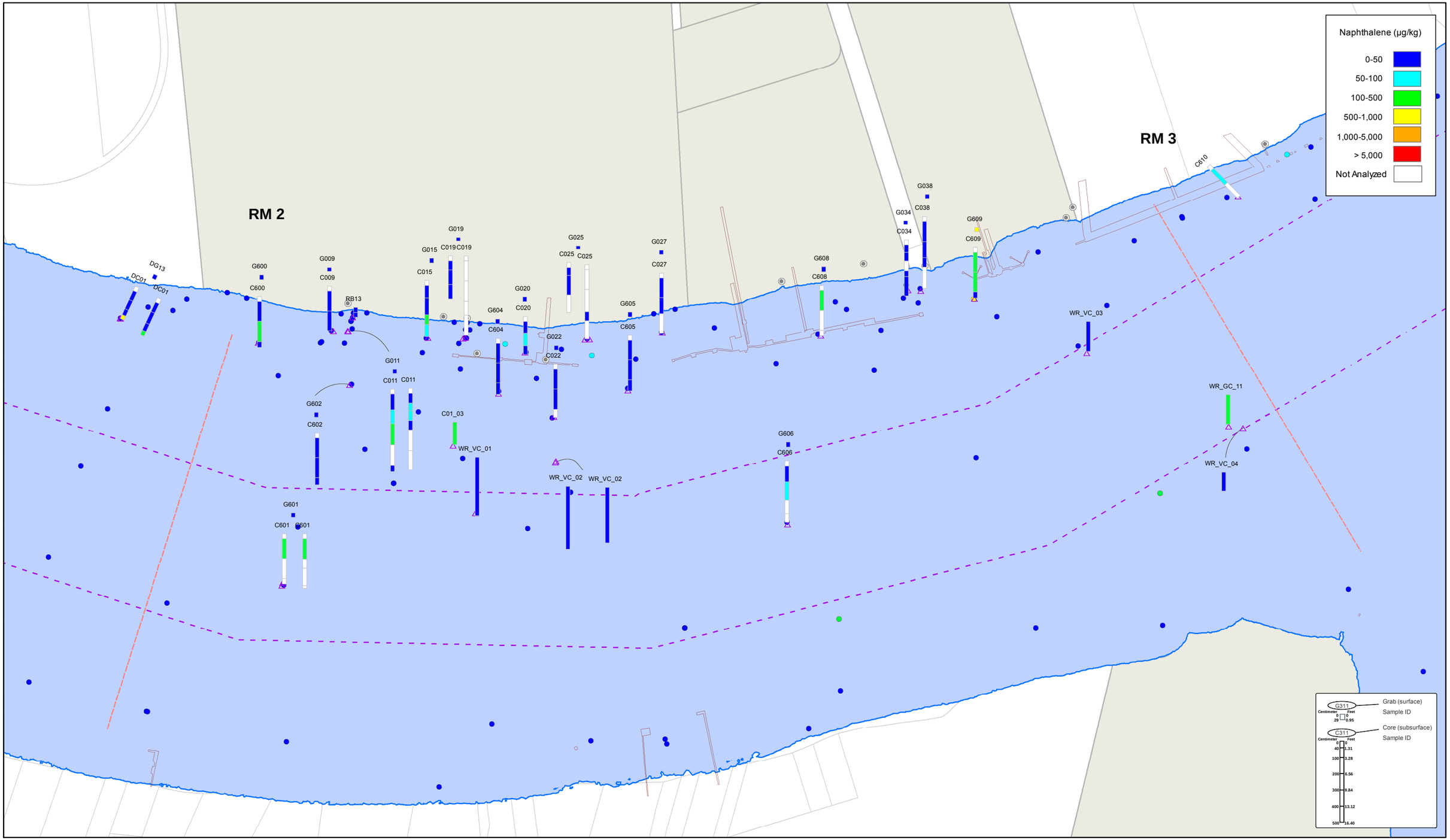
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 01 to 02



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM

FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

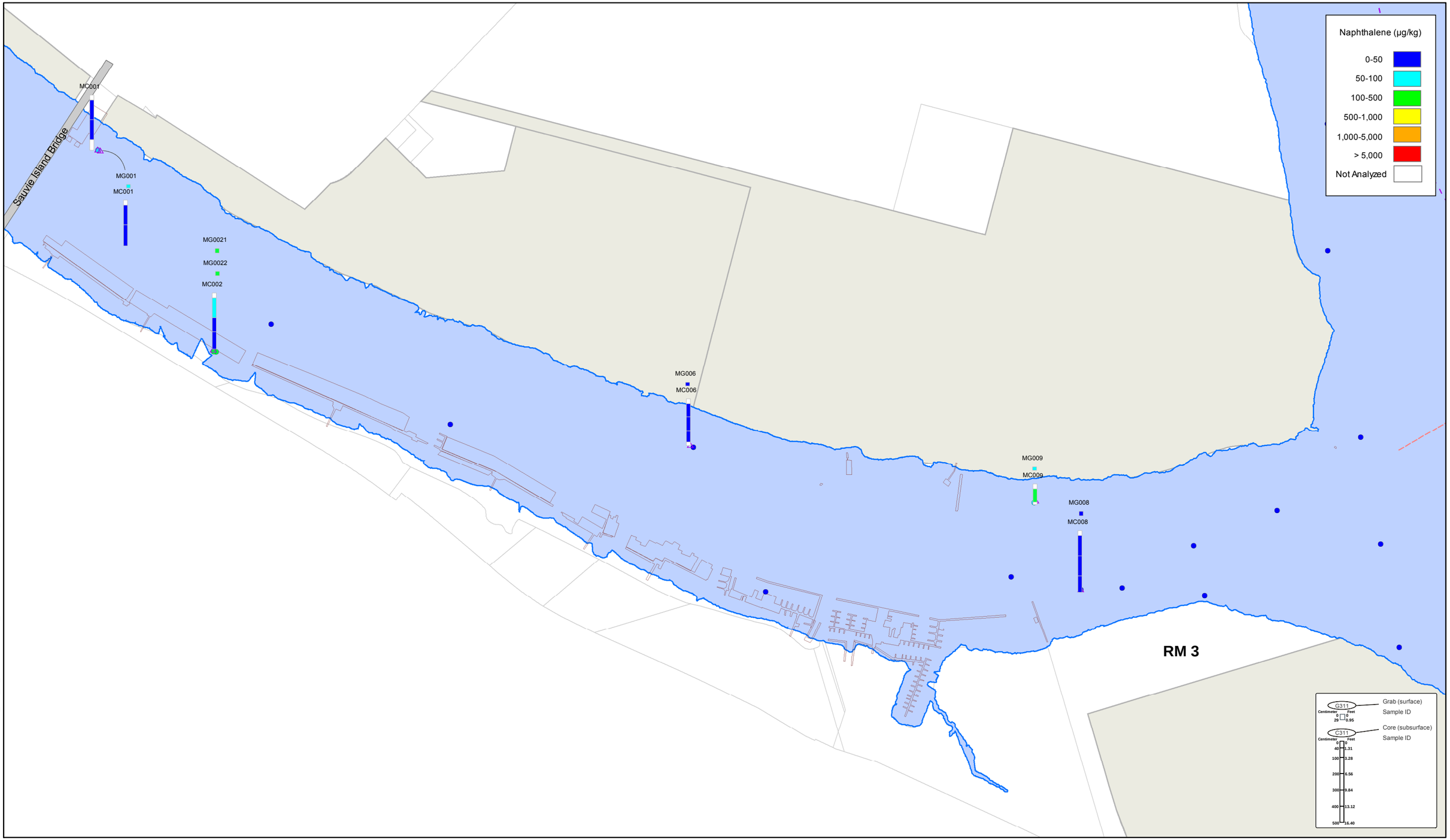
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

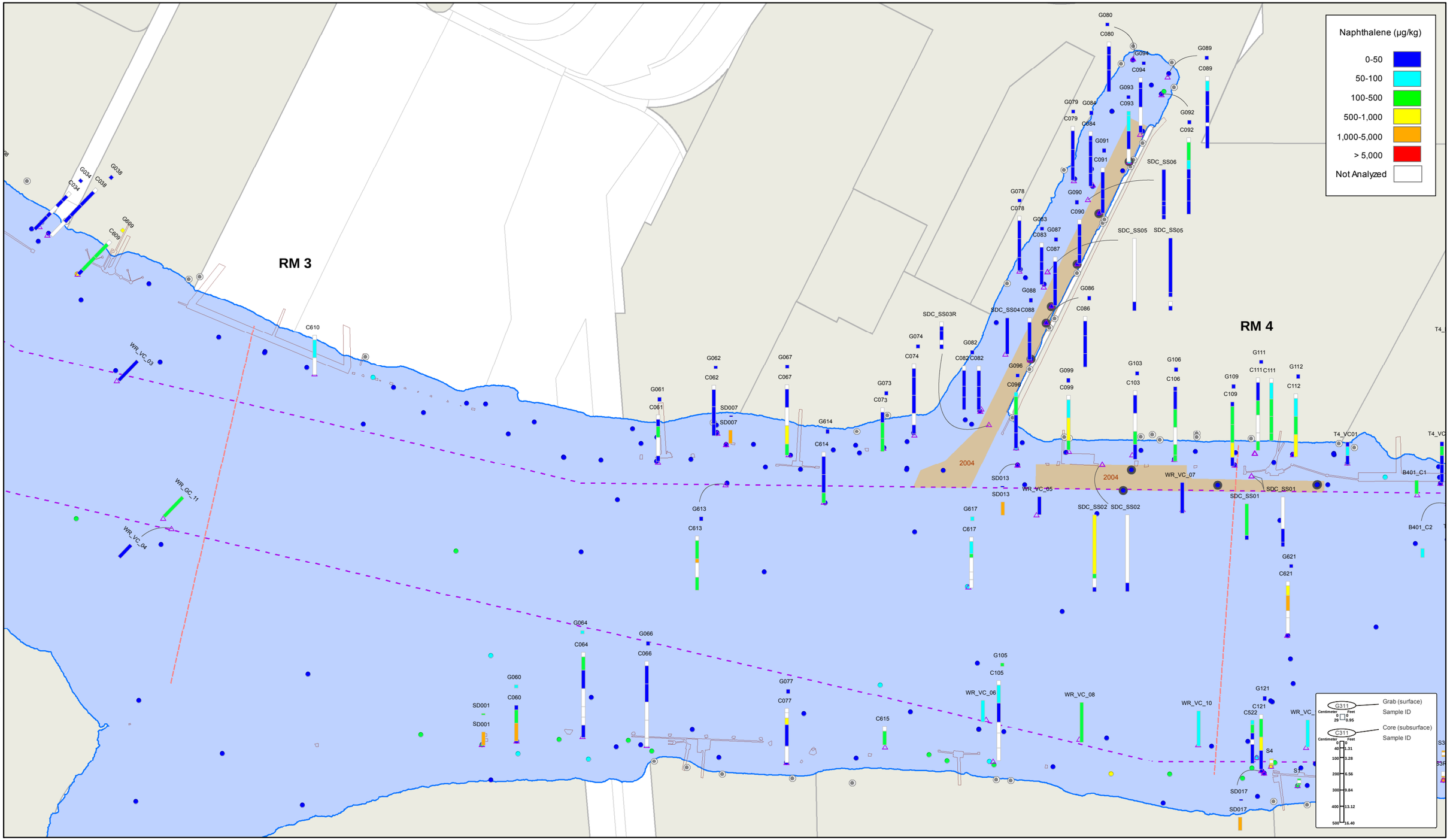
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 03 - Multnomah Channel



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

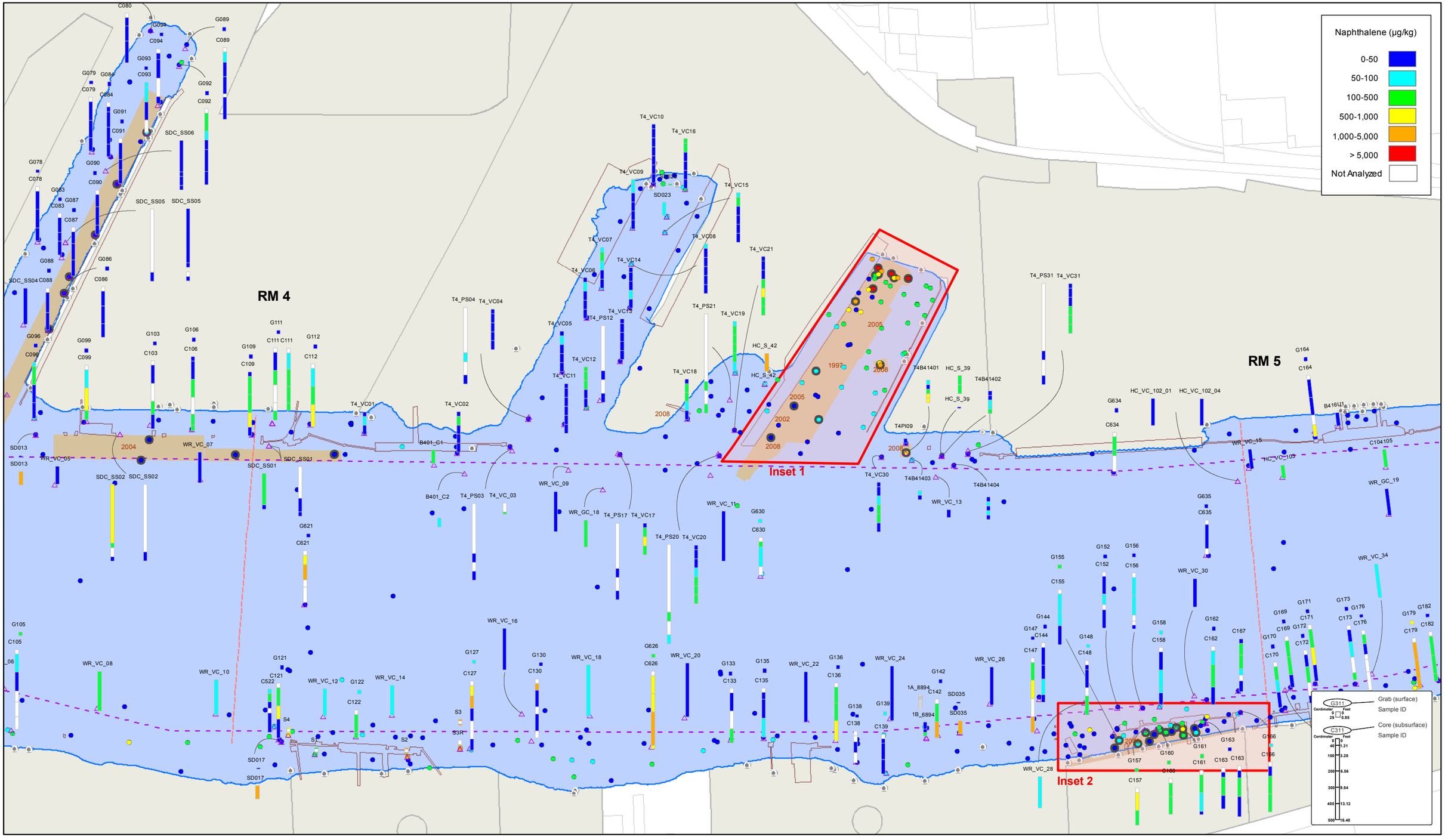
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 03 to 04

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

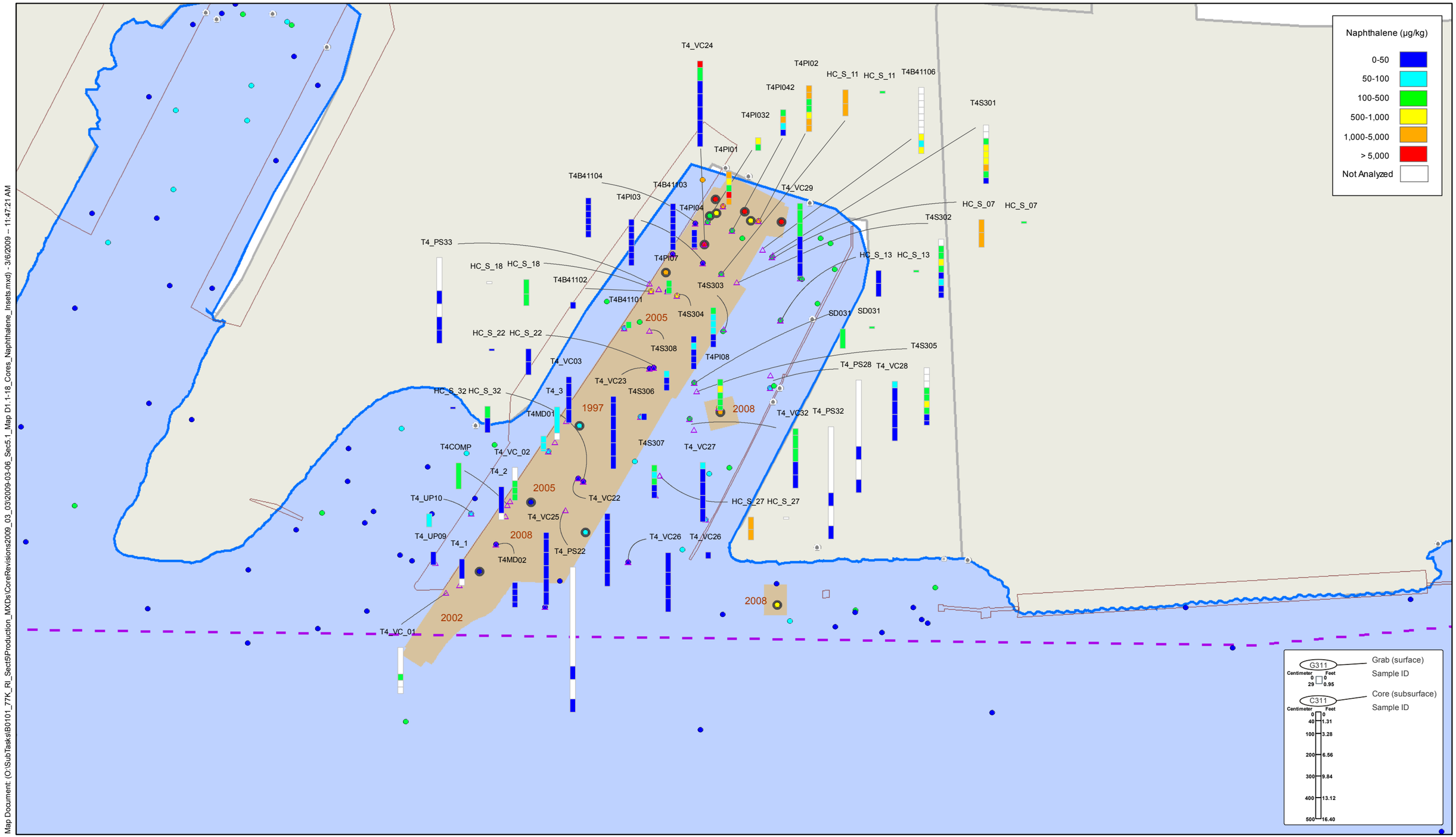
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 04 to 05 - Slips



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Insets.mxd) - 3/6/2009 -- 11:47:21 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

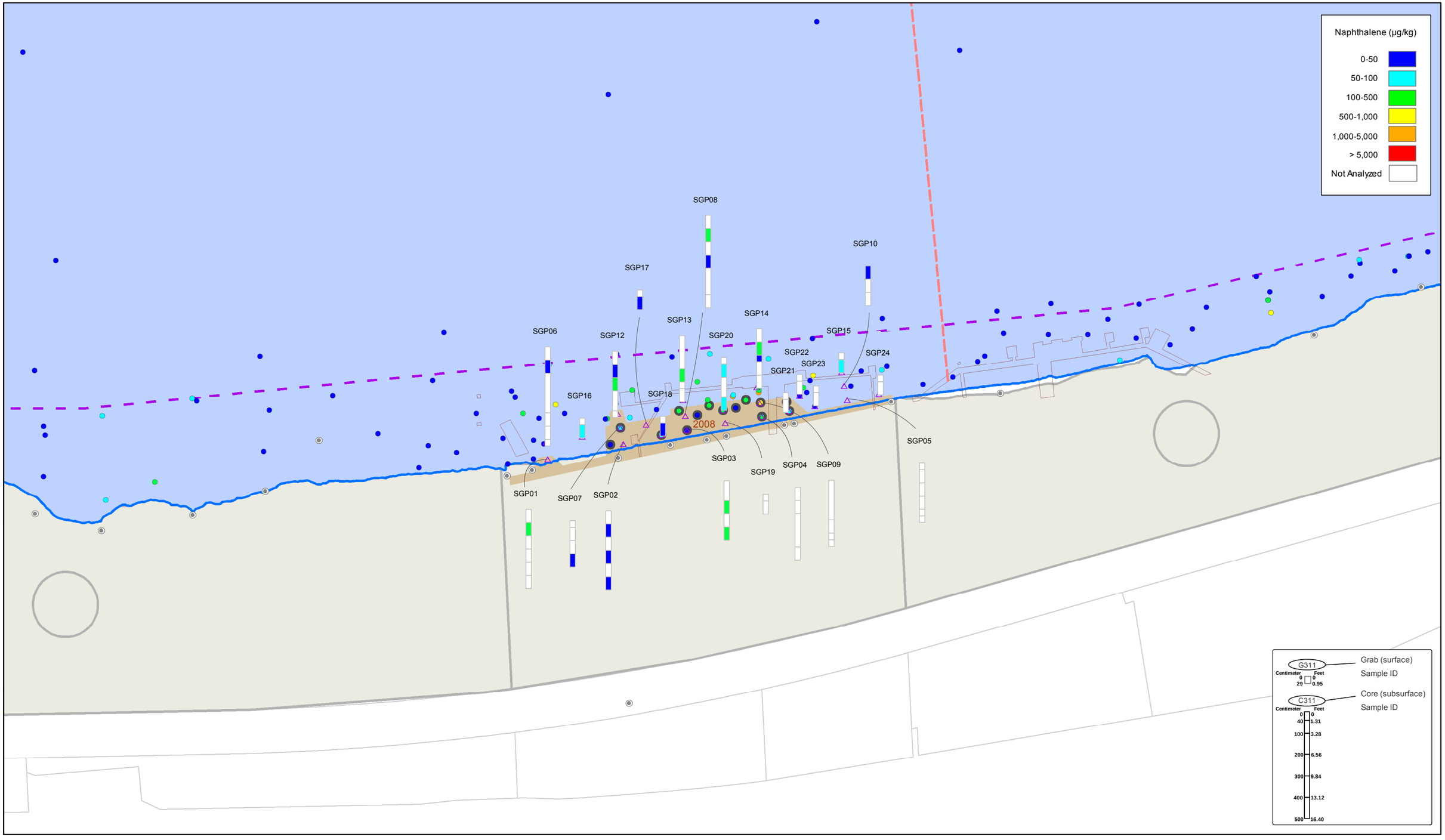
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 04 to 05 - Slips - Inset 1



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N

FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

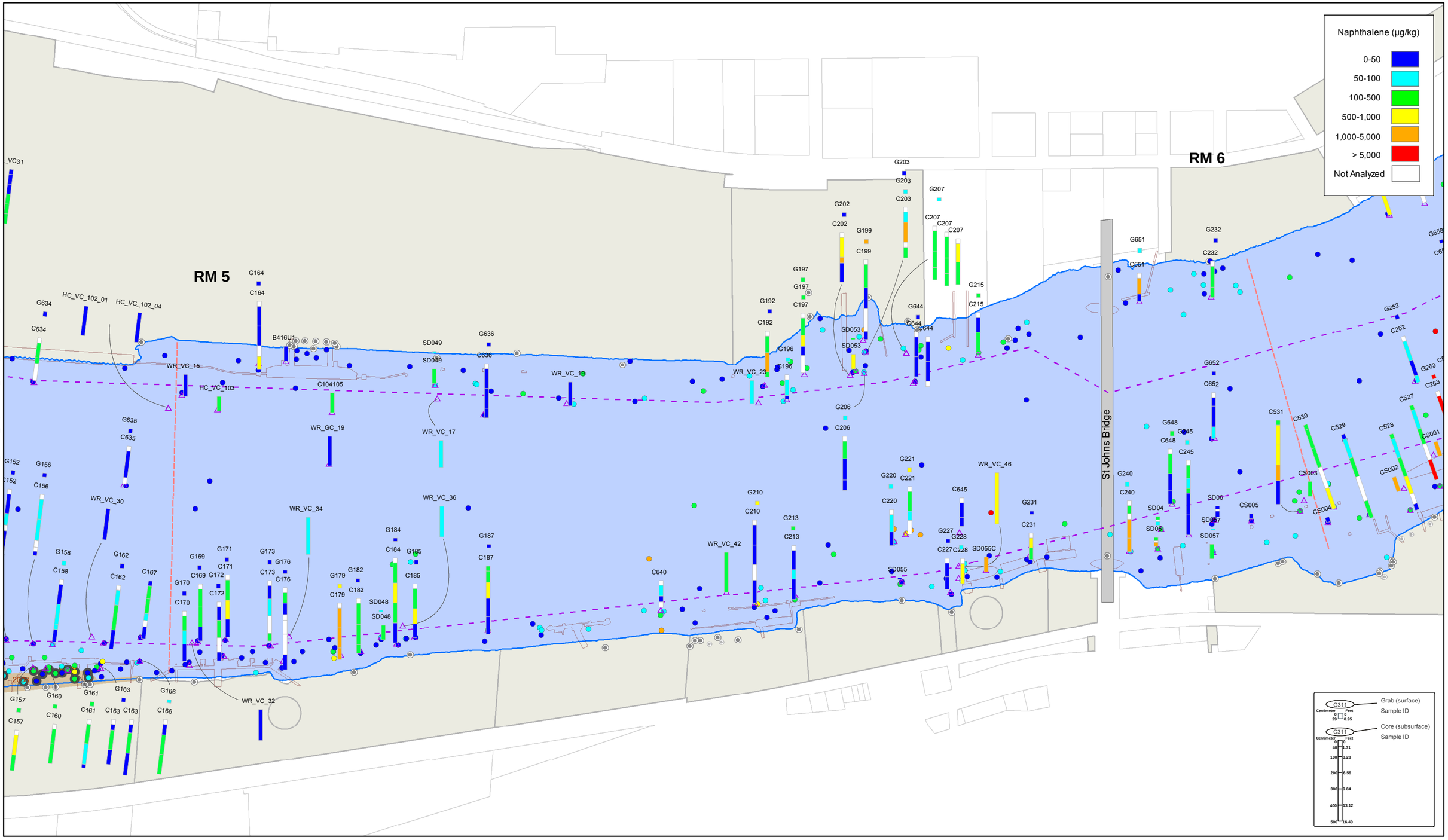
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

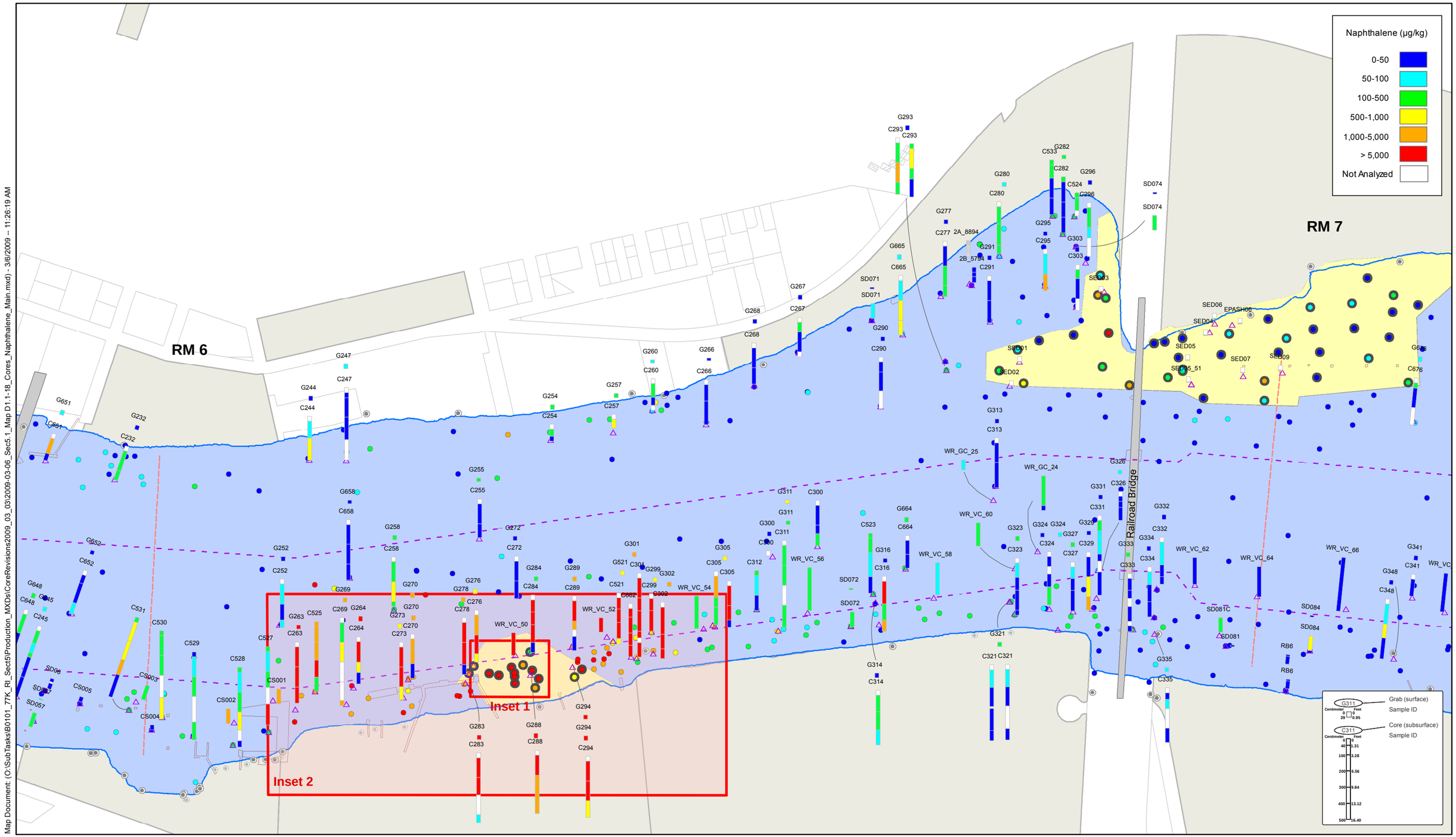
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 05 to 06



Map Document: (O:\SubTasks\B0101_7TK_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

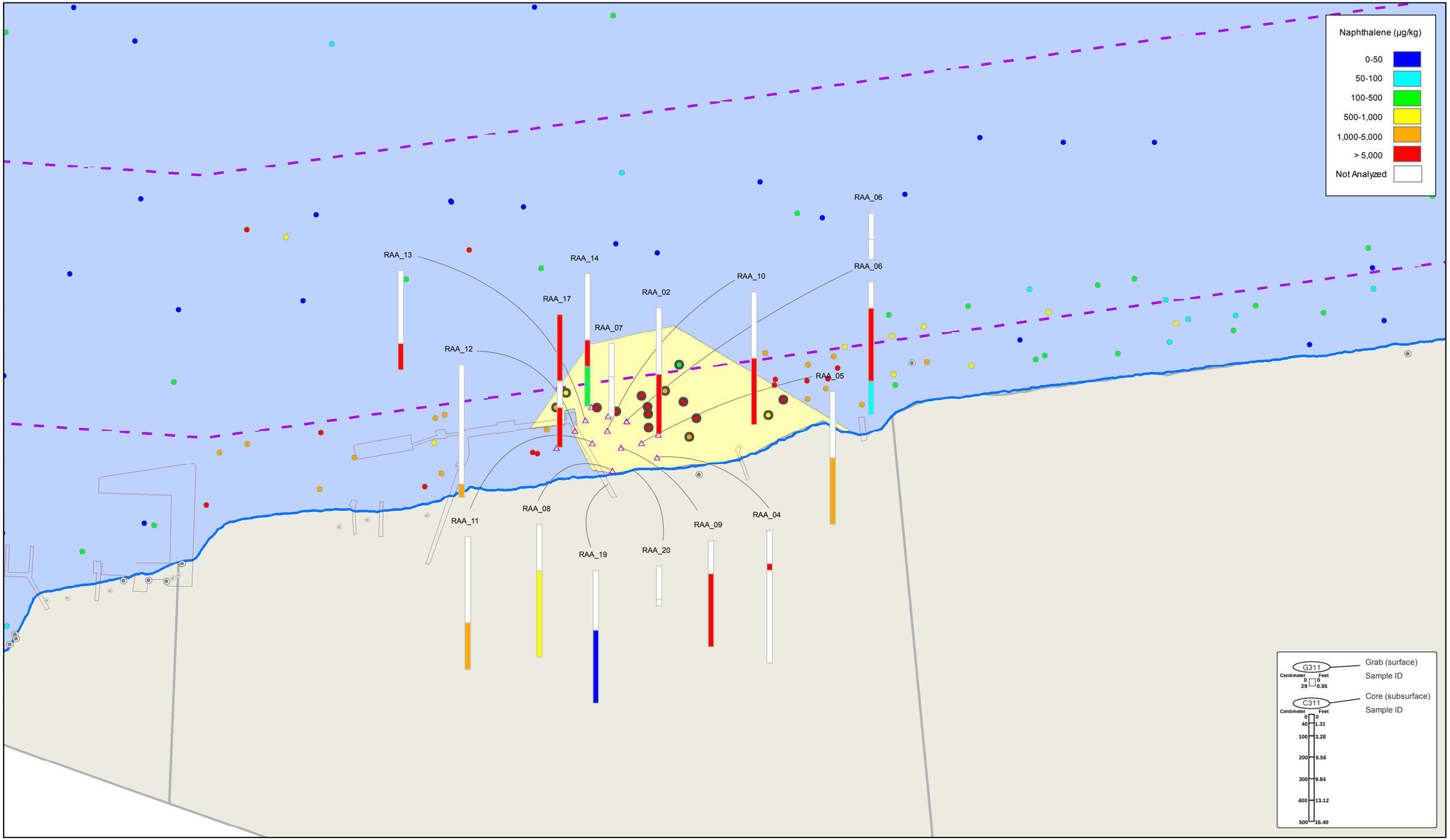
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26g

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 06 to 07



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N

FEATURE SOURCES:
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Bathymetric Information: David Evans and Associates, Inc.
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0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

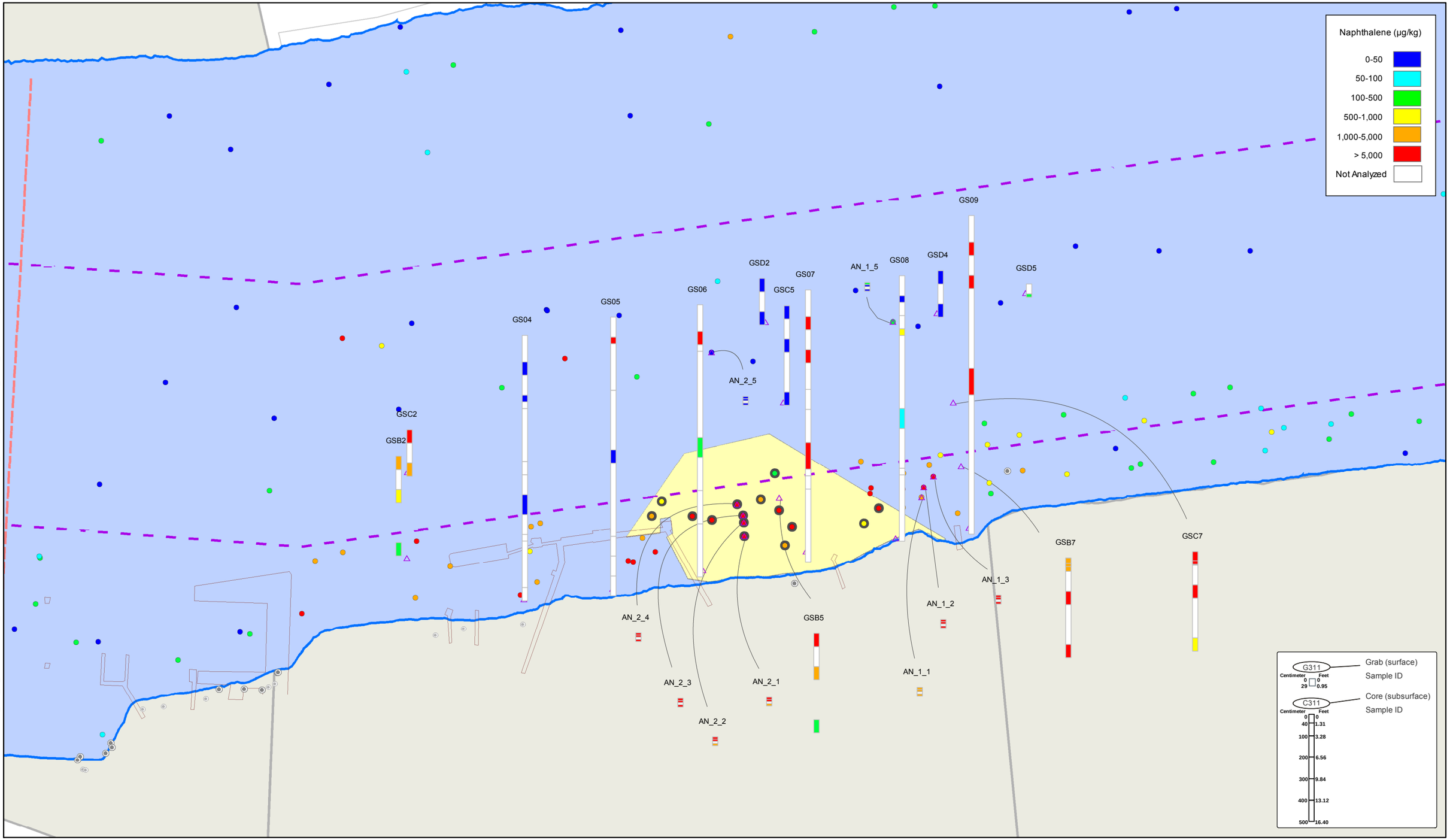
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 06 to 07 - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Insets.mxd) - 3/6/2009 -- 11:47:21 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

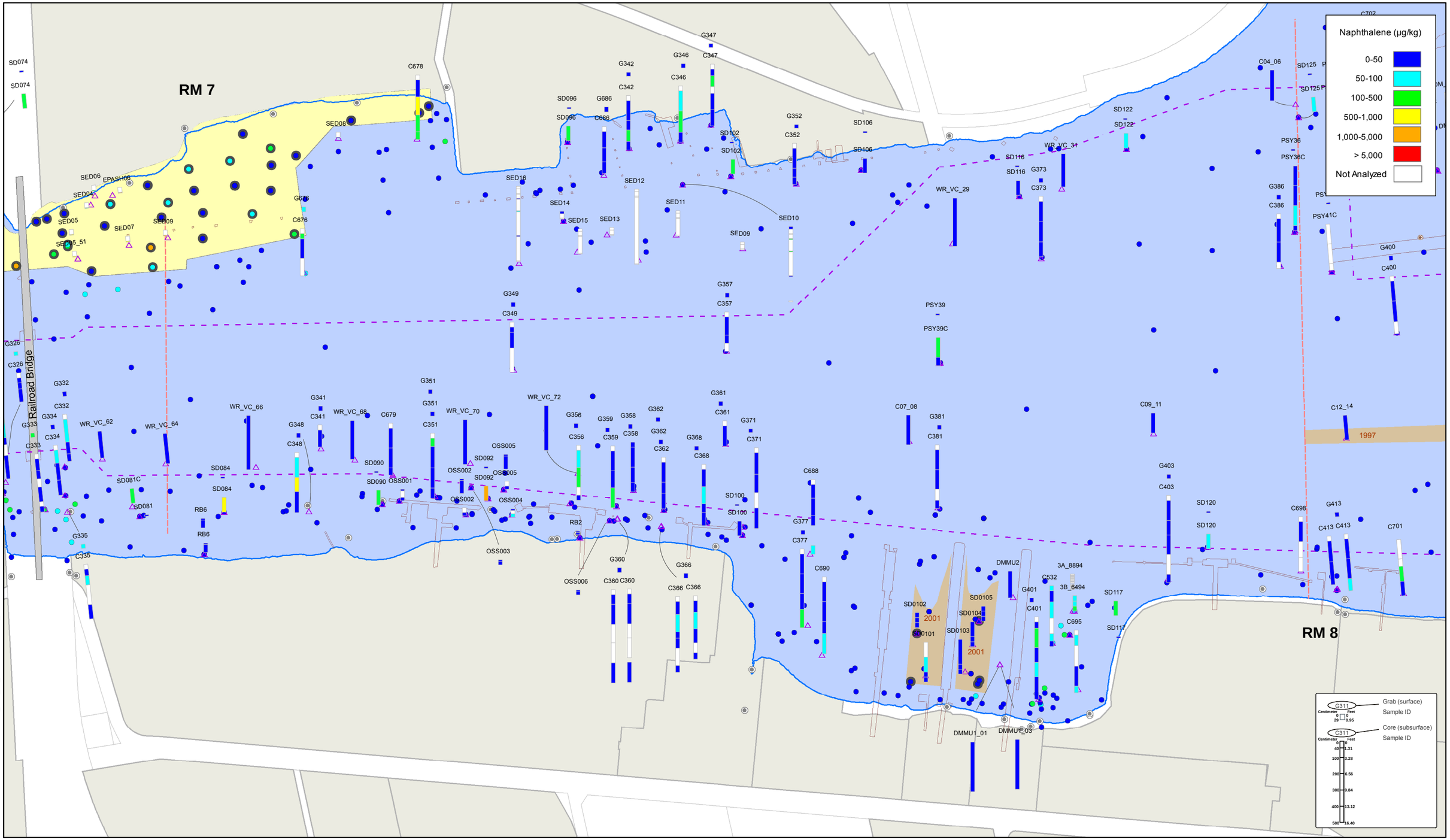
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26 g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

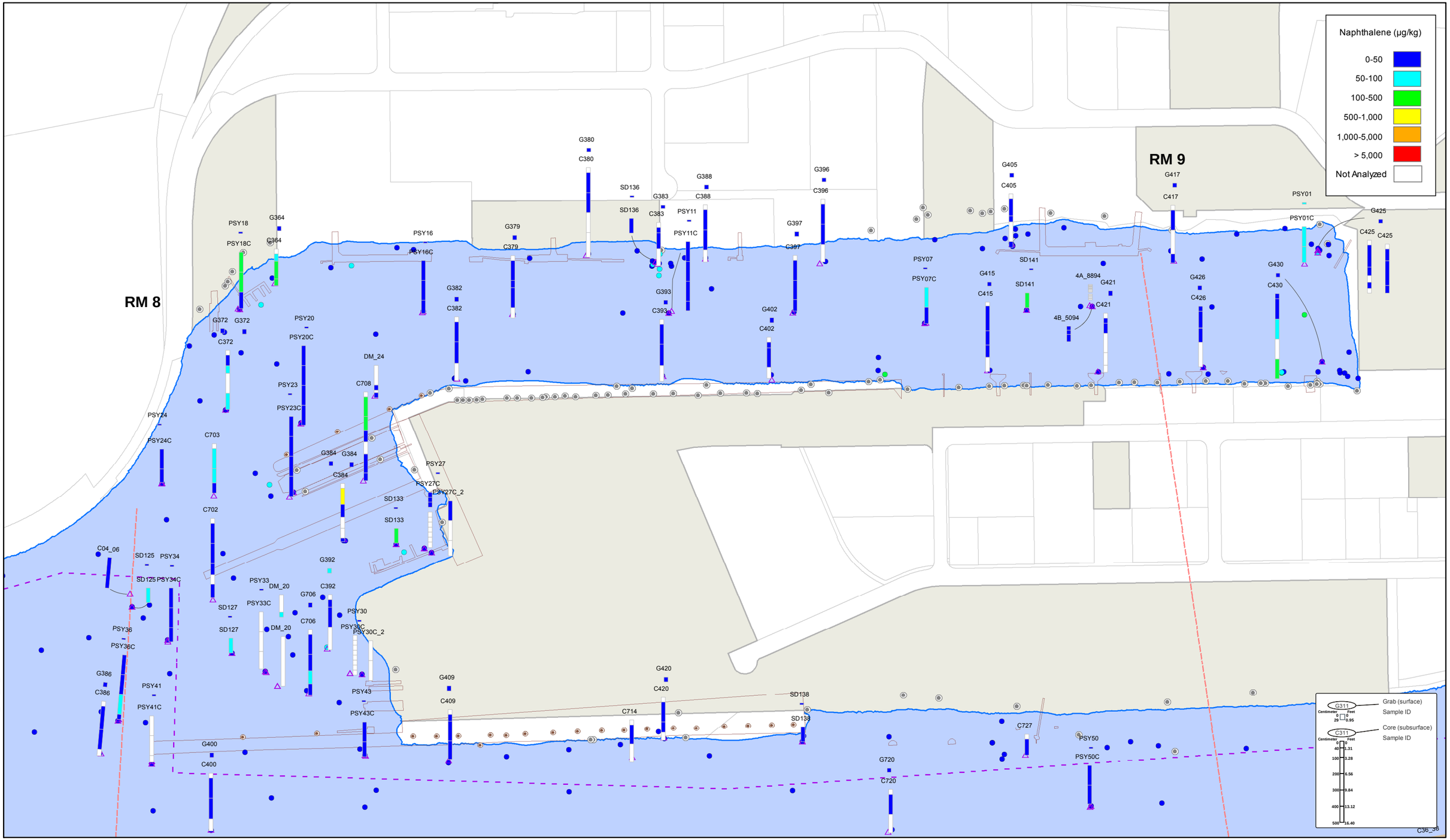
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26h

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 07 to 08



Map Document: (O:\SubTasks\B0101_7TK_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM

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Channel & River miles: US Army Corps of Engineers.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

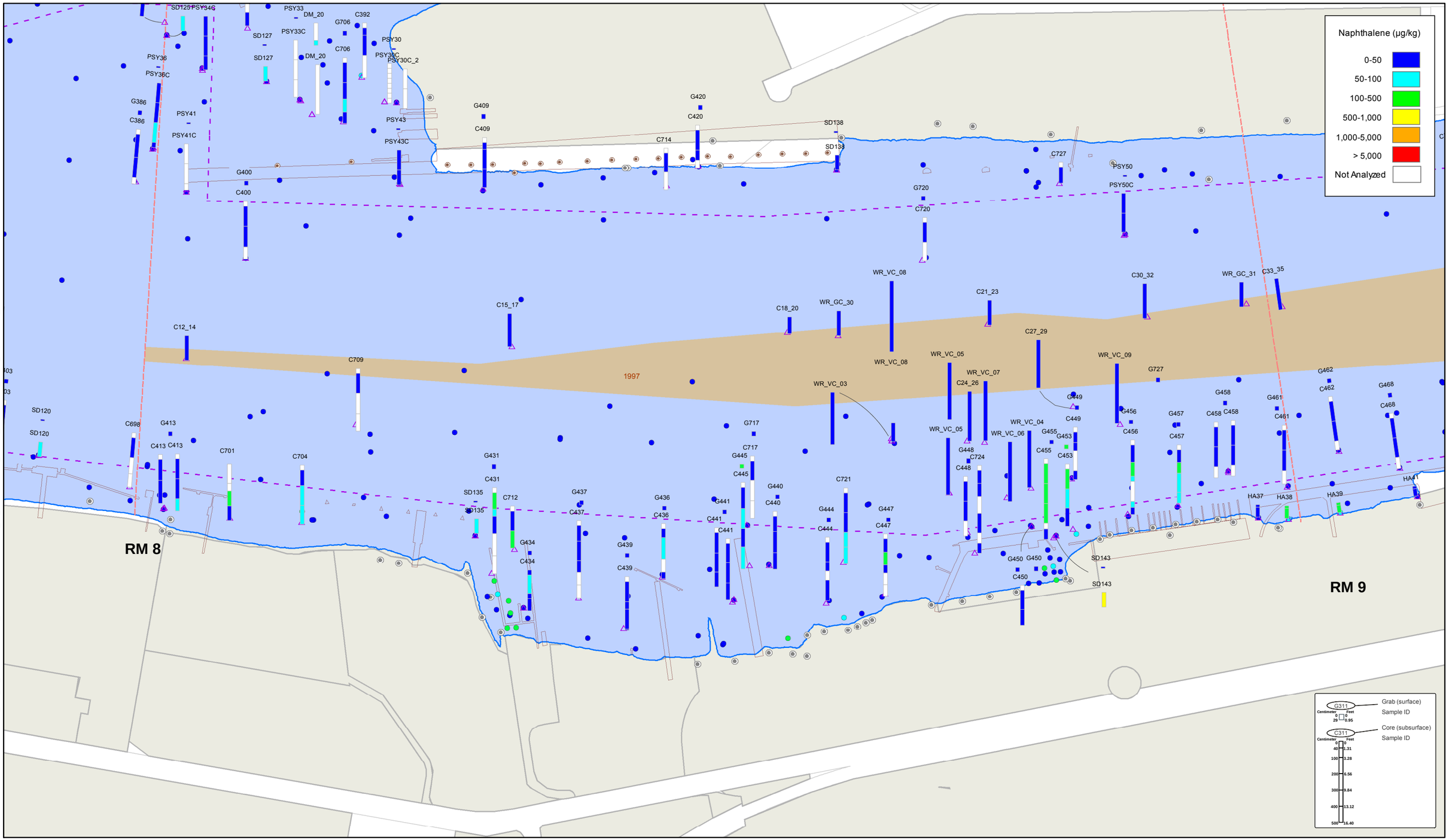
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

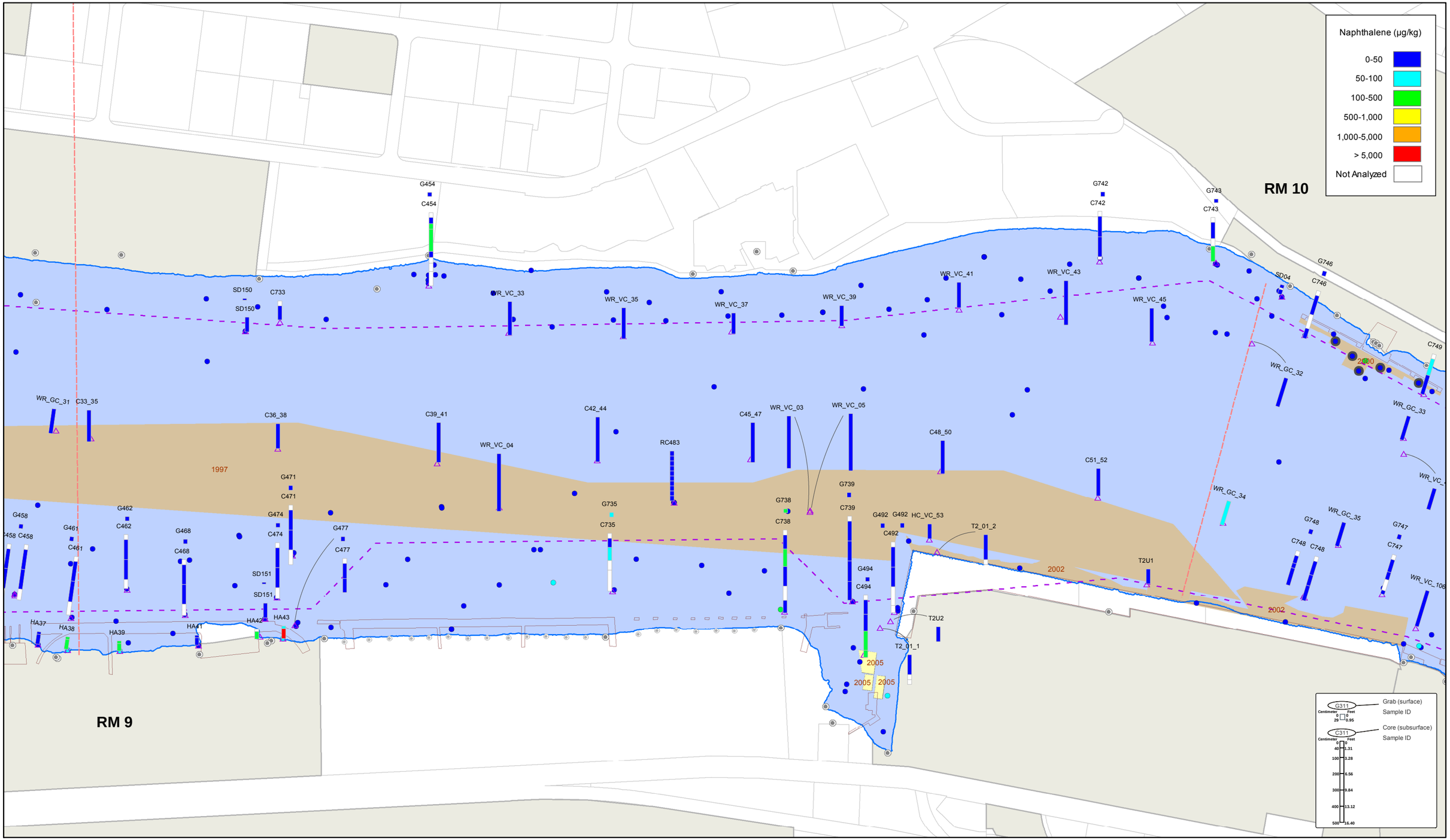
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 08 to 09 - Swan Is. West

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM



N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

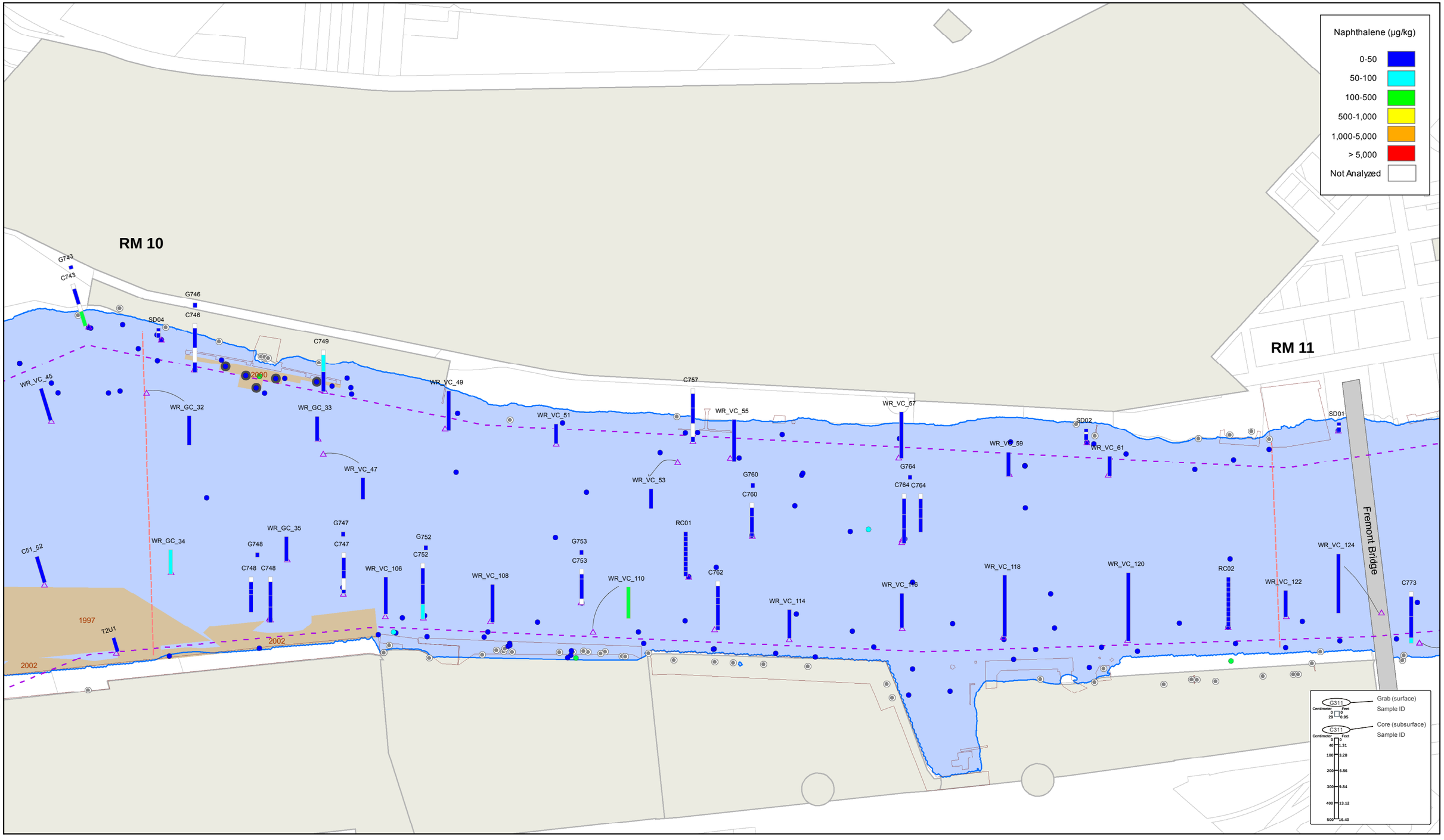
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D1.1-18_Cores_Naphthalene_Main.mxd) - 3/6/2009 -- 11:26:19 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

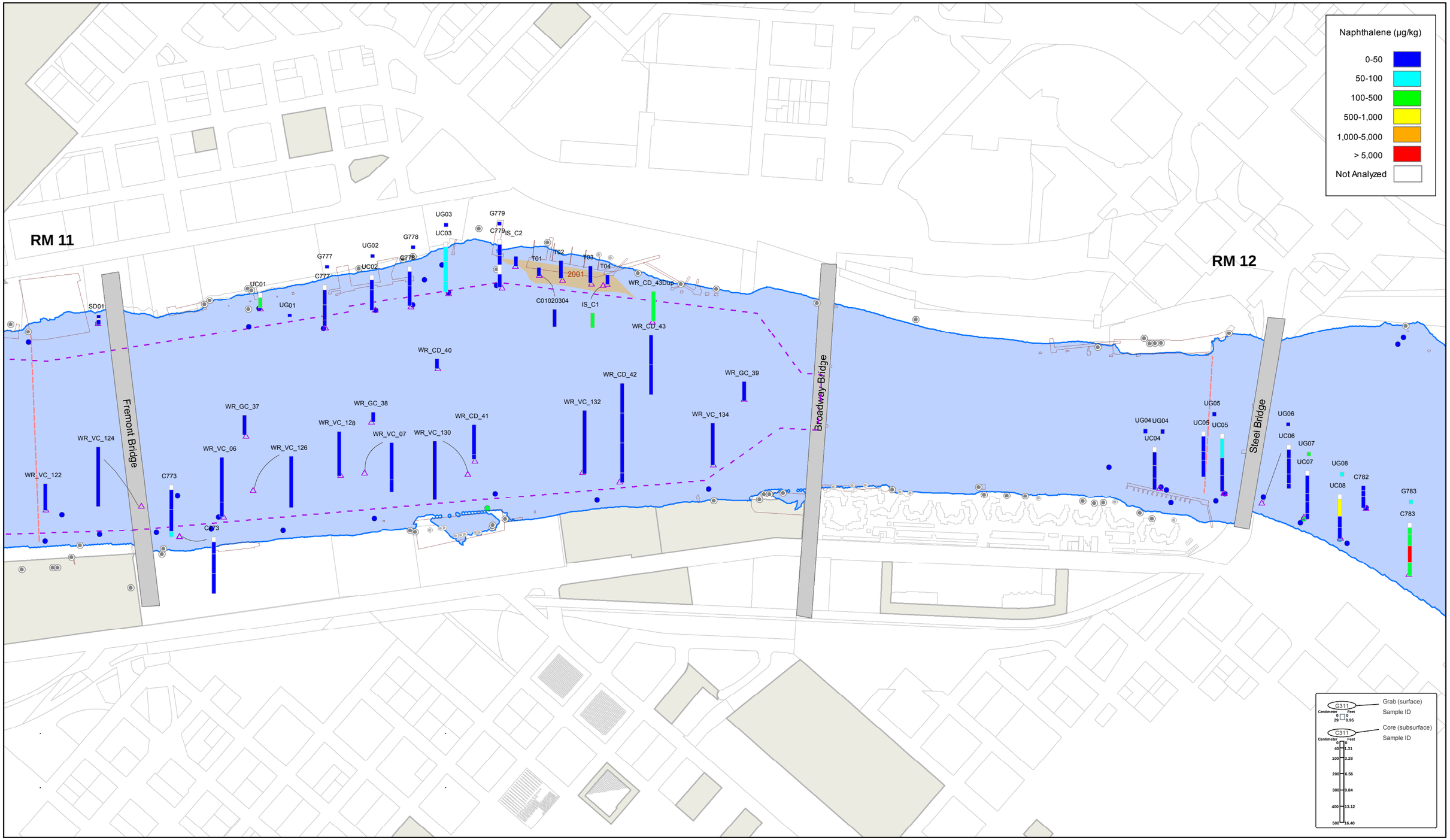
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 10 to 11



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N

FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

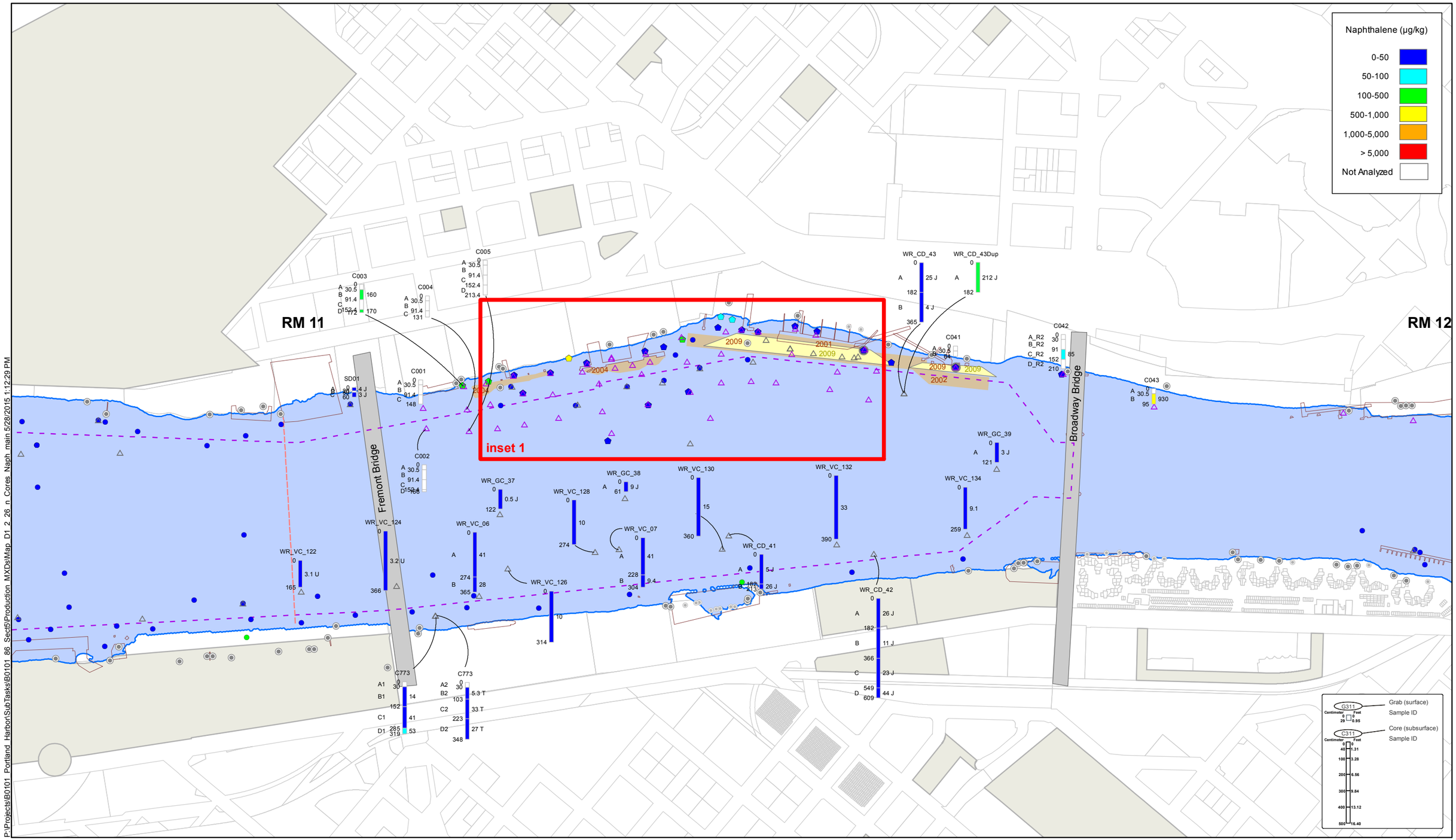
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26 m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)
River Mile 11 to 12



FEATURE SOURCES:
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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

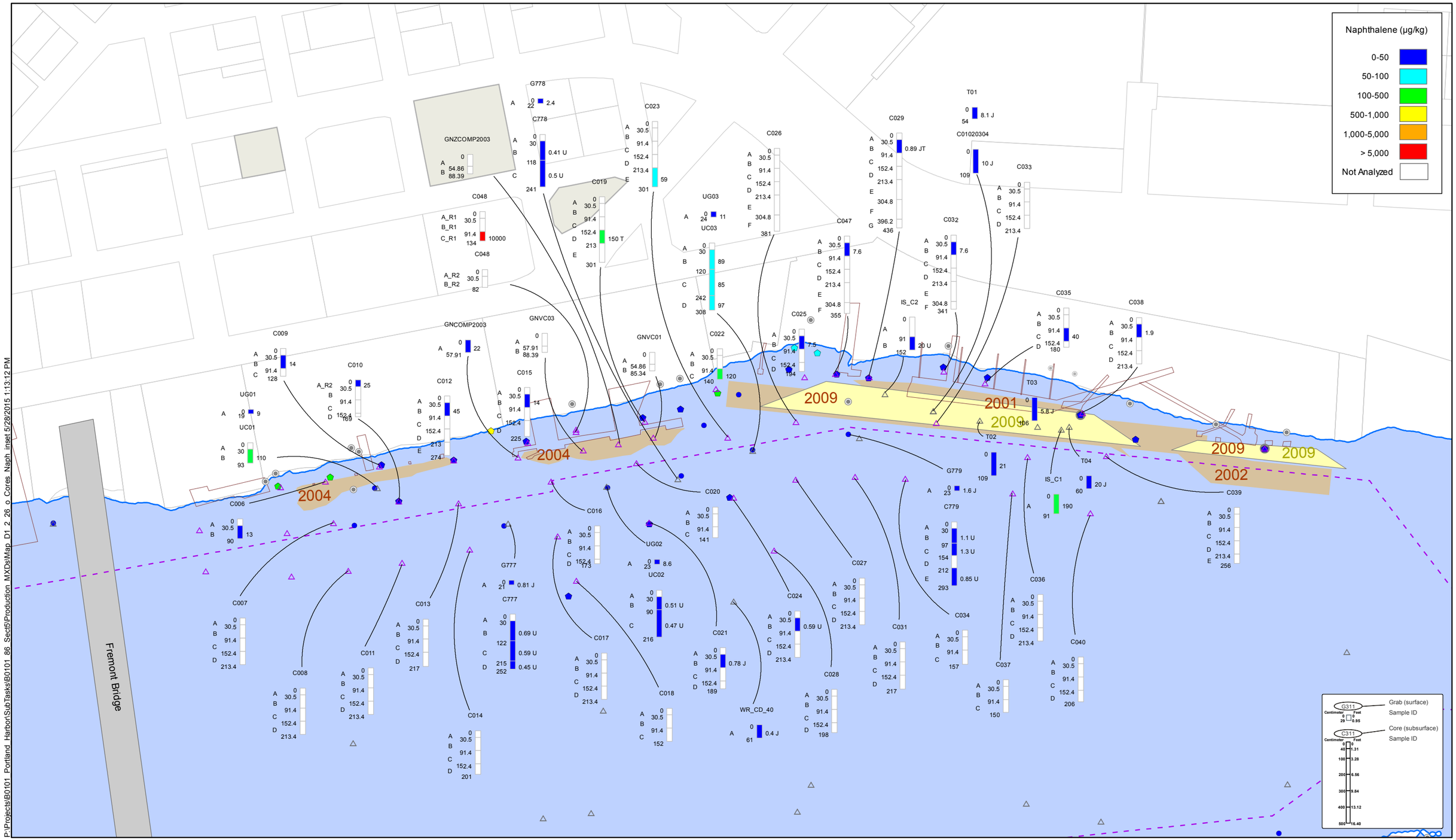
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_26_n_Cores_Naph_main 5/28/2015 1:12:29 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

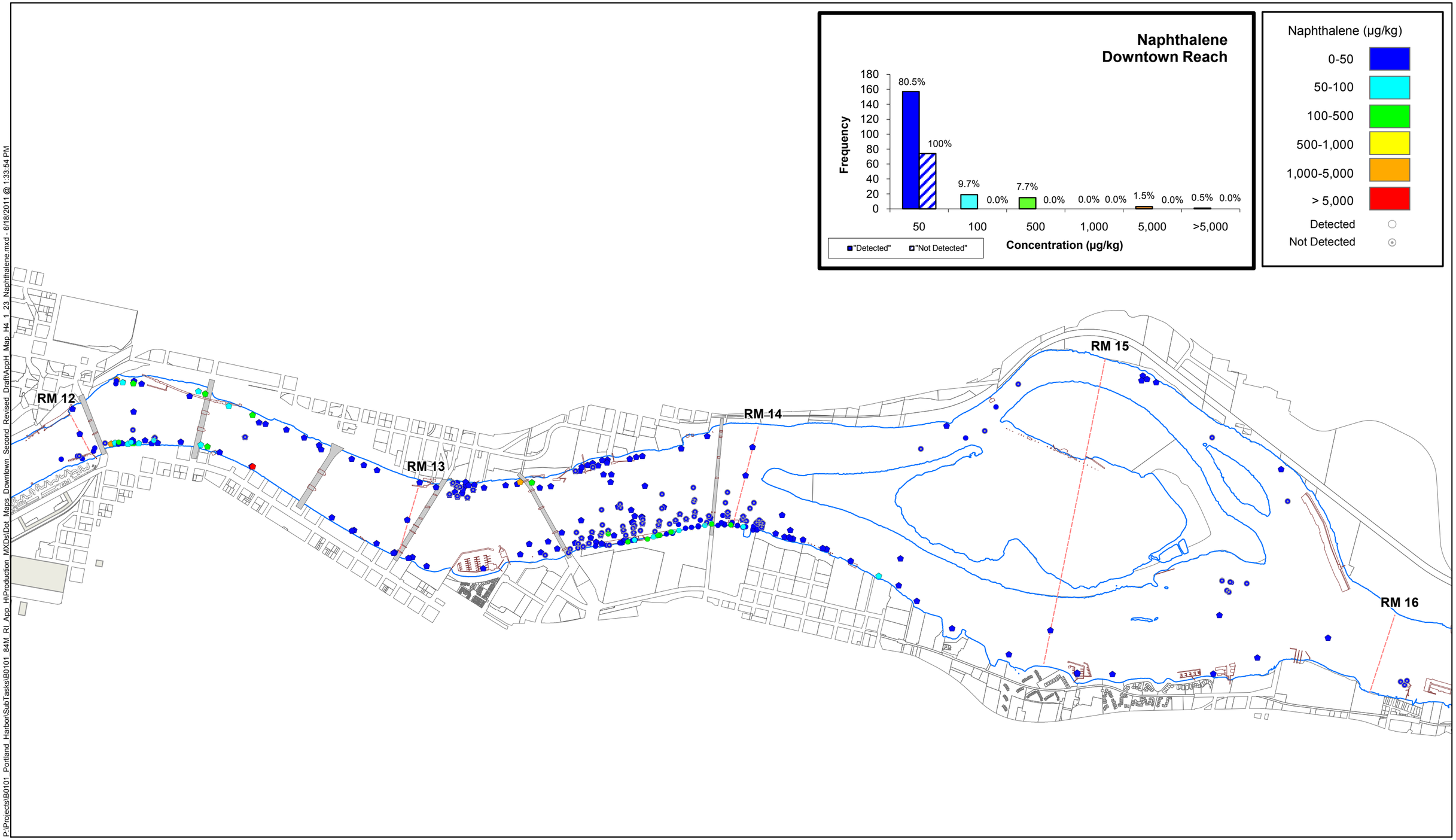
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-26o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Naphthalene (µg/kg)

River Mile 11.0 - 11.8 - Inset 1



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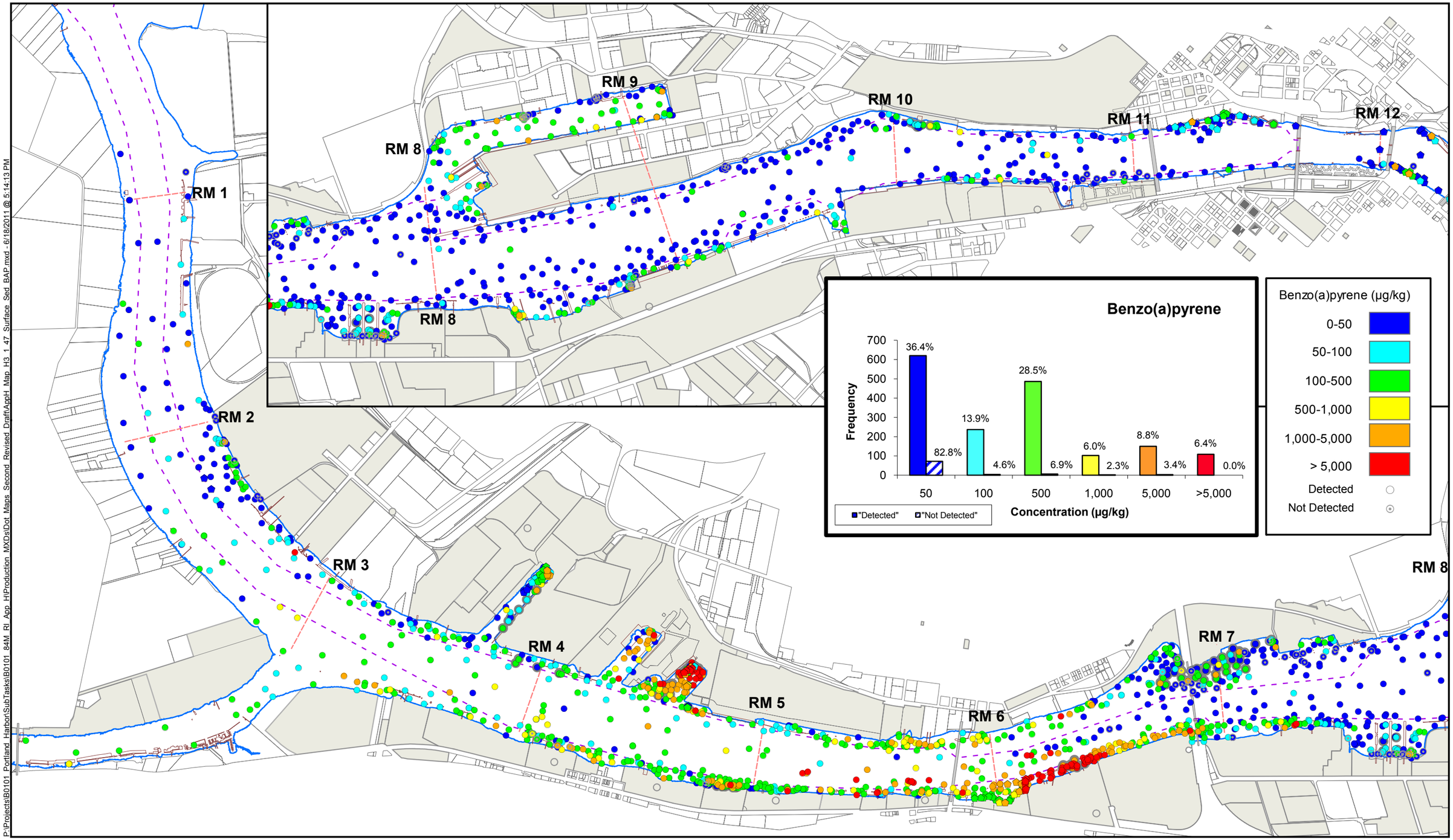
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-27
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Naphthalene (µg/kg)
Downtown Reach



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

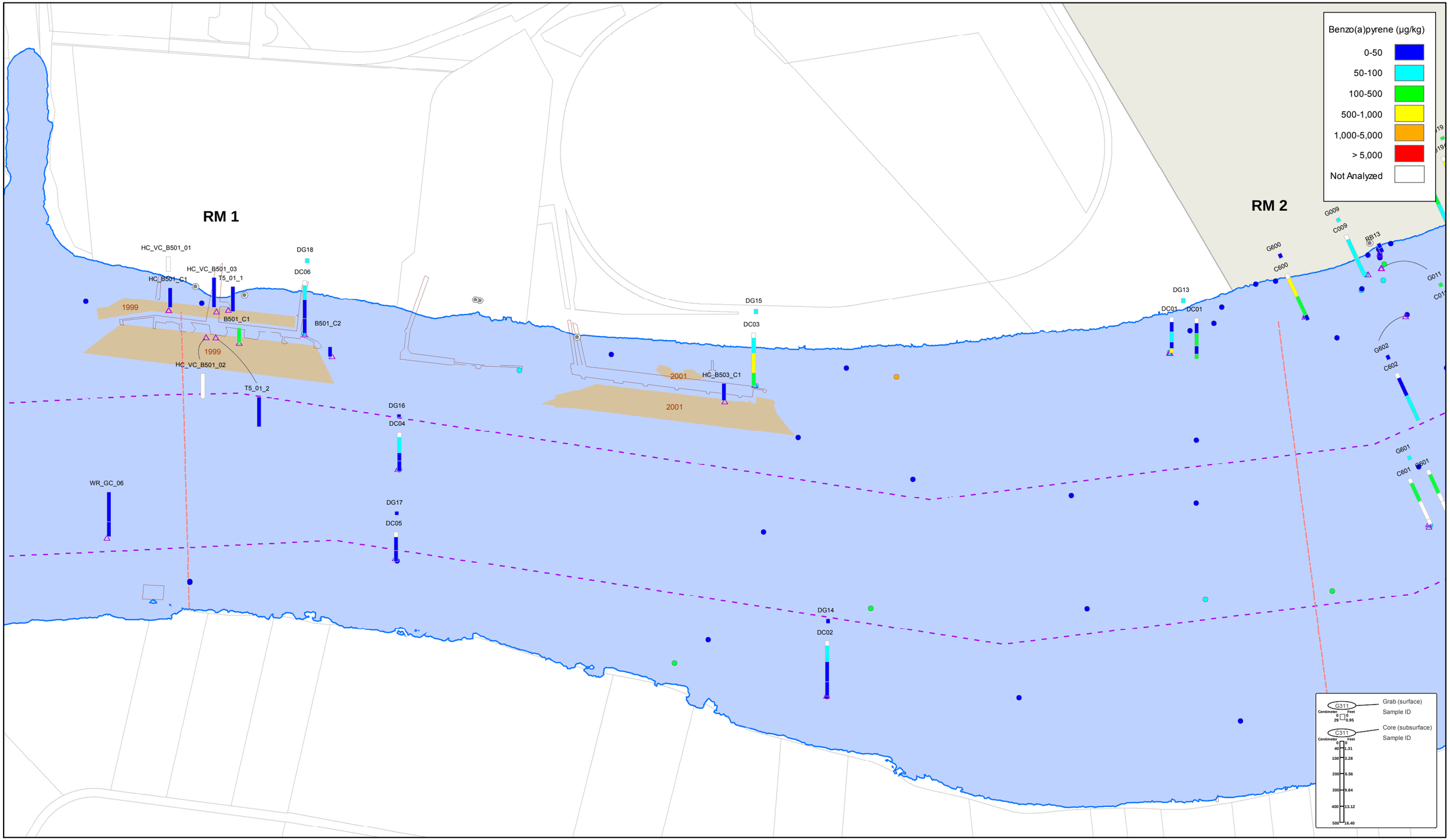
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-28
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

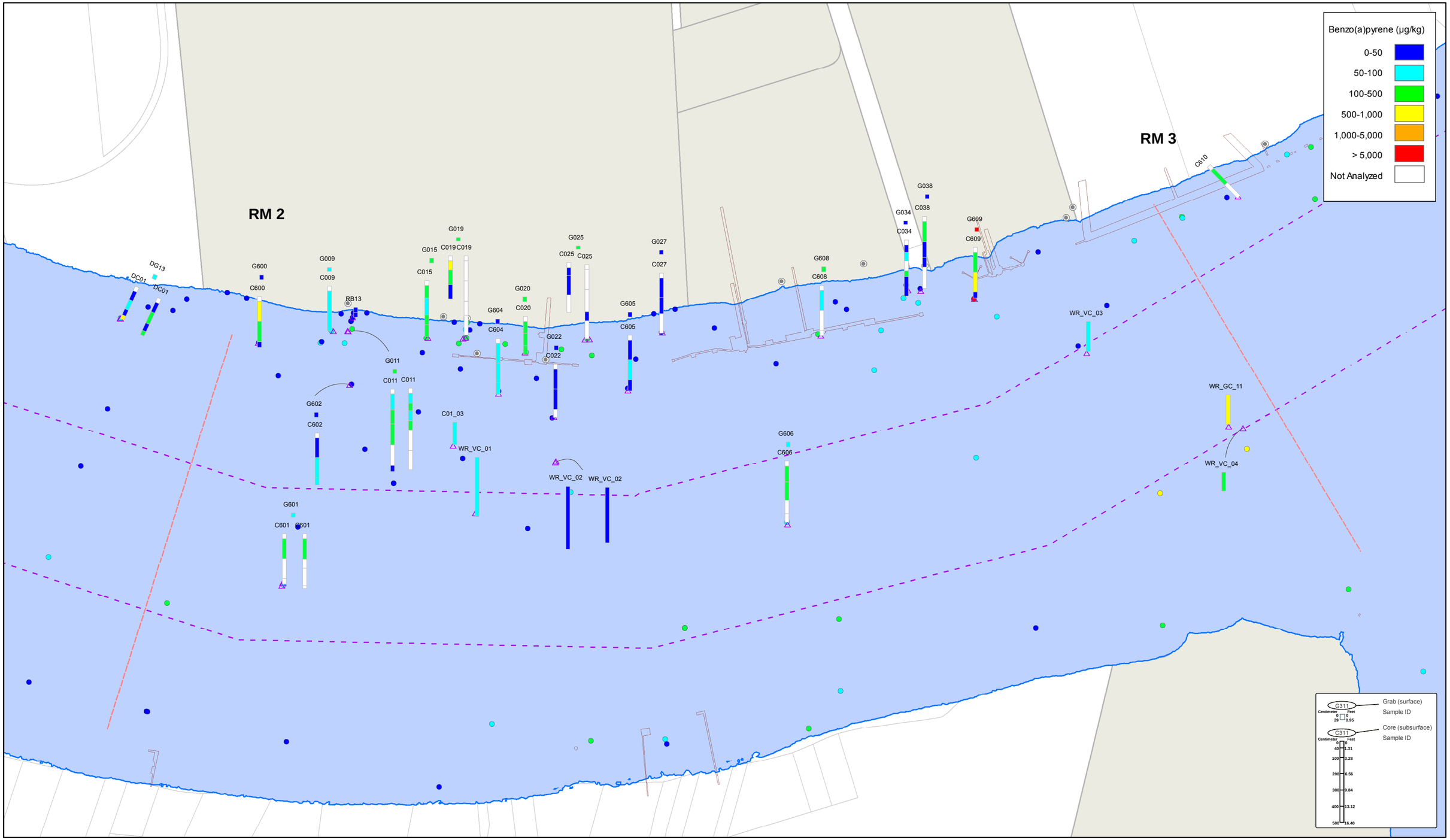
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_7TK_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

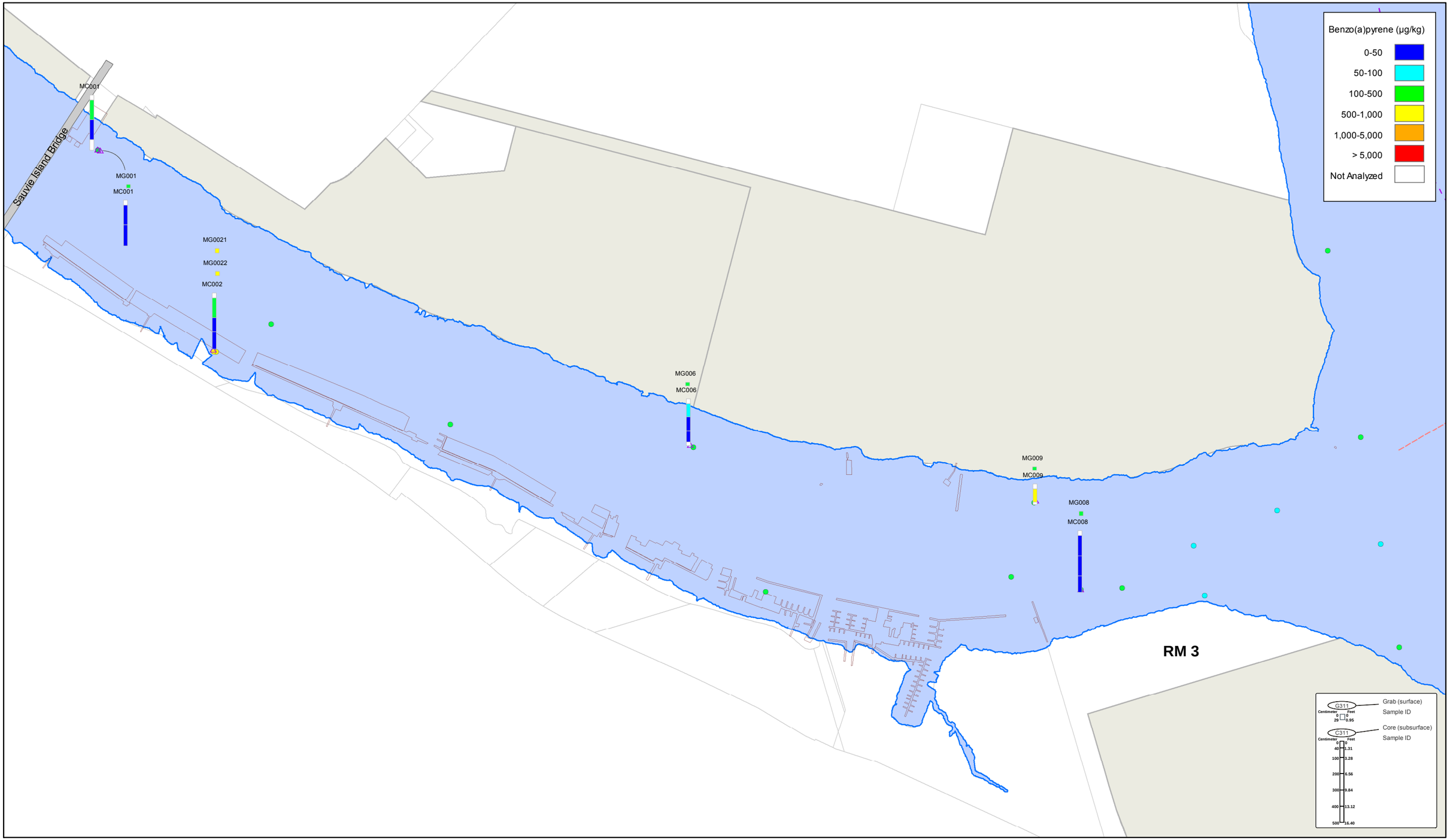
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

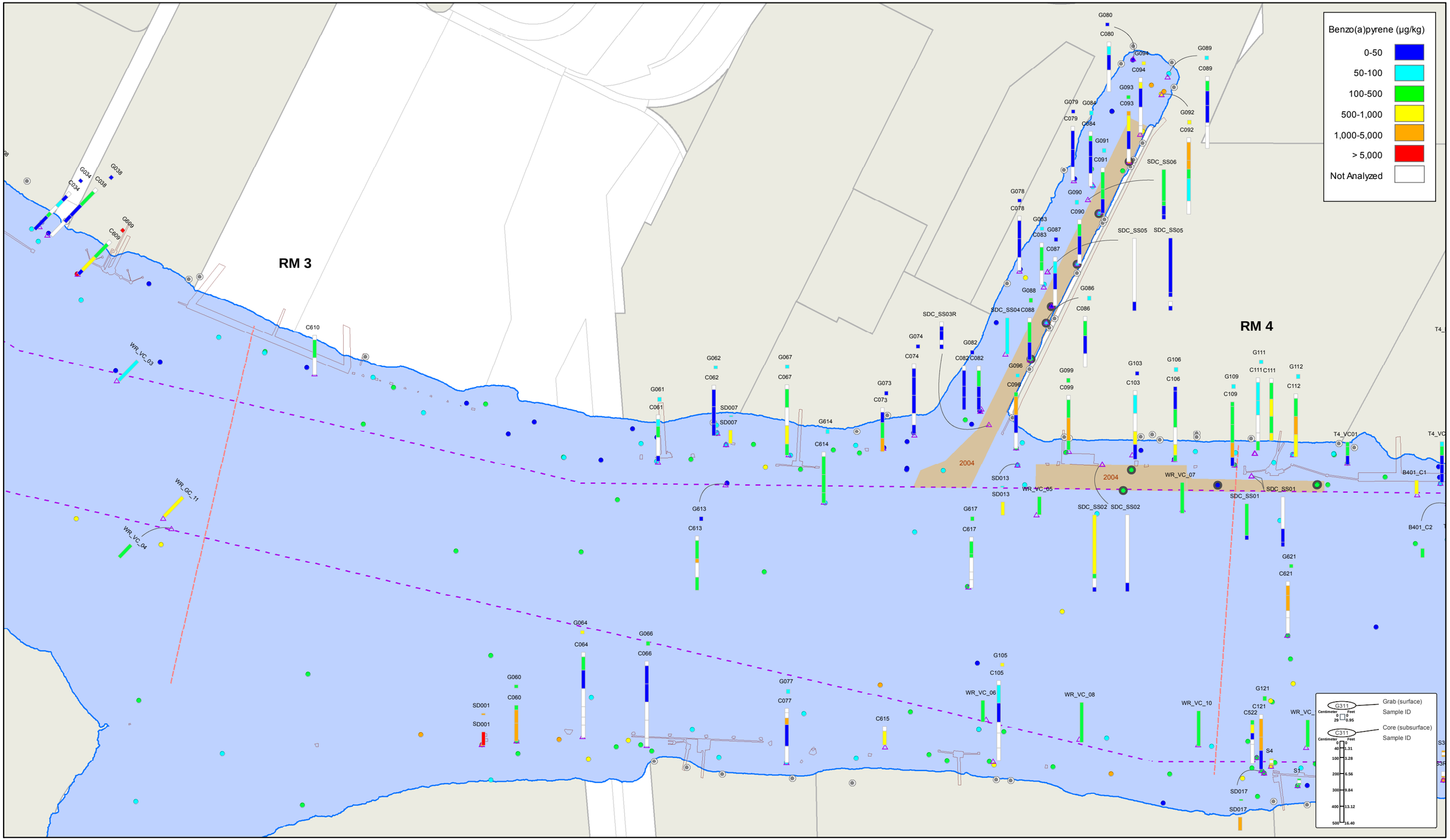
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 03 - Multnomah Channel

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

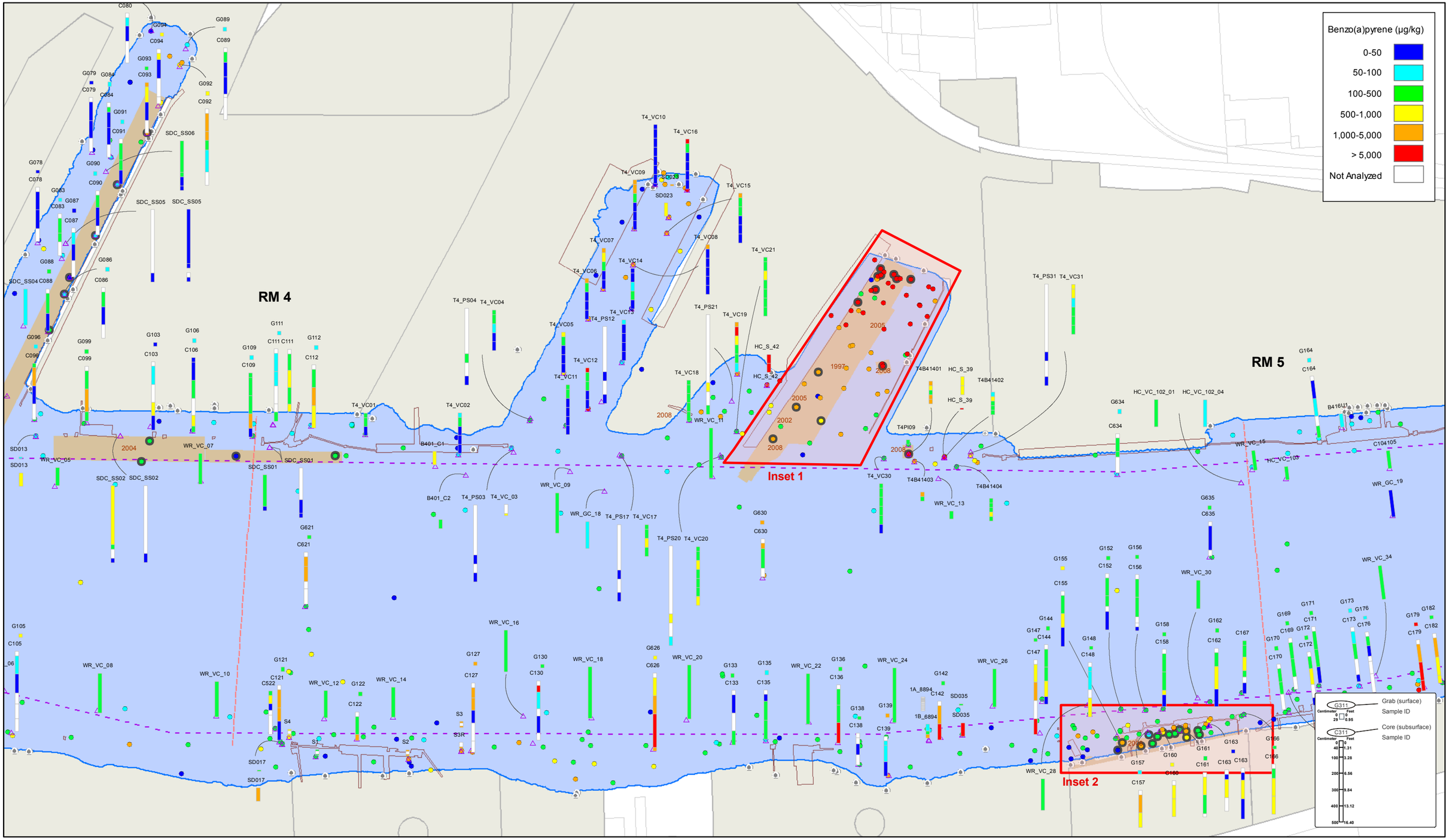
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 03 to 04

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/13/2009 -- 11:39:42 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

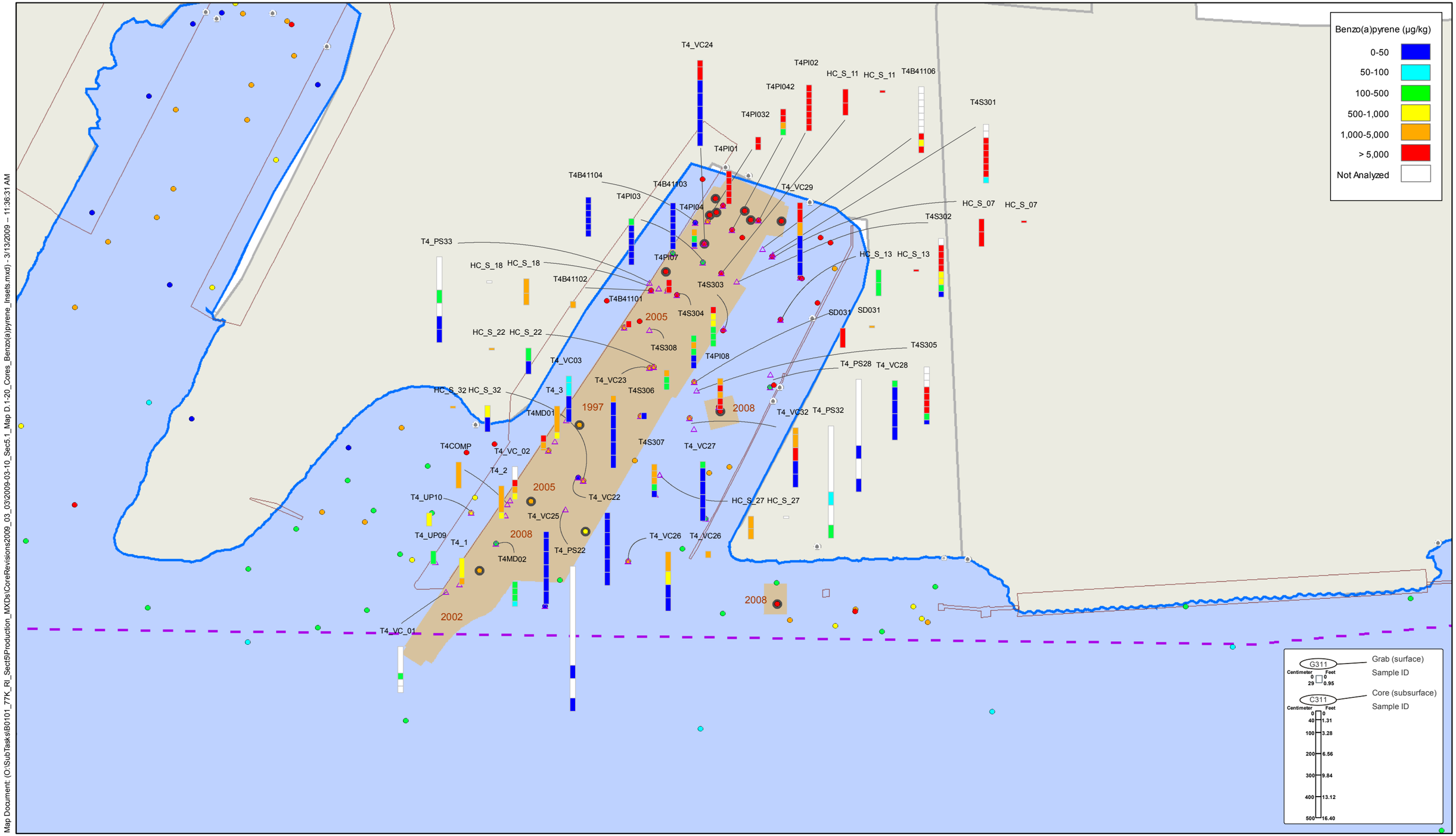
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

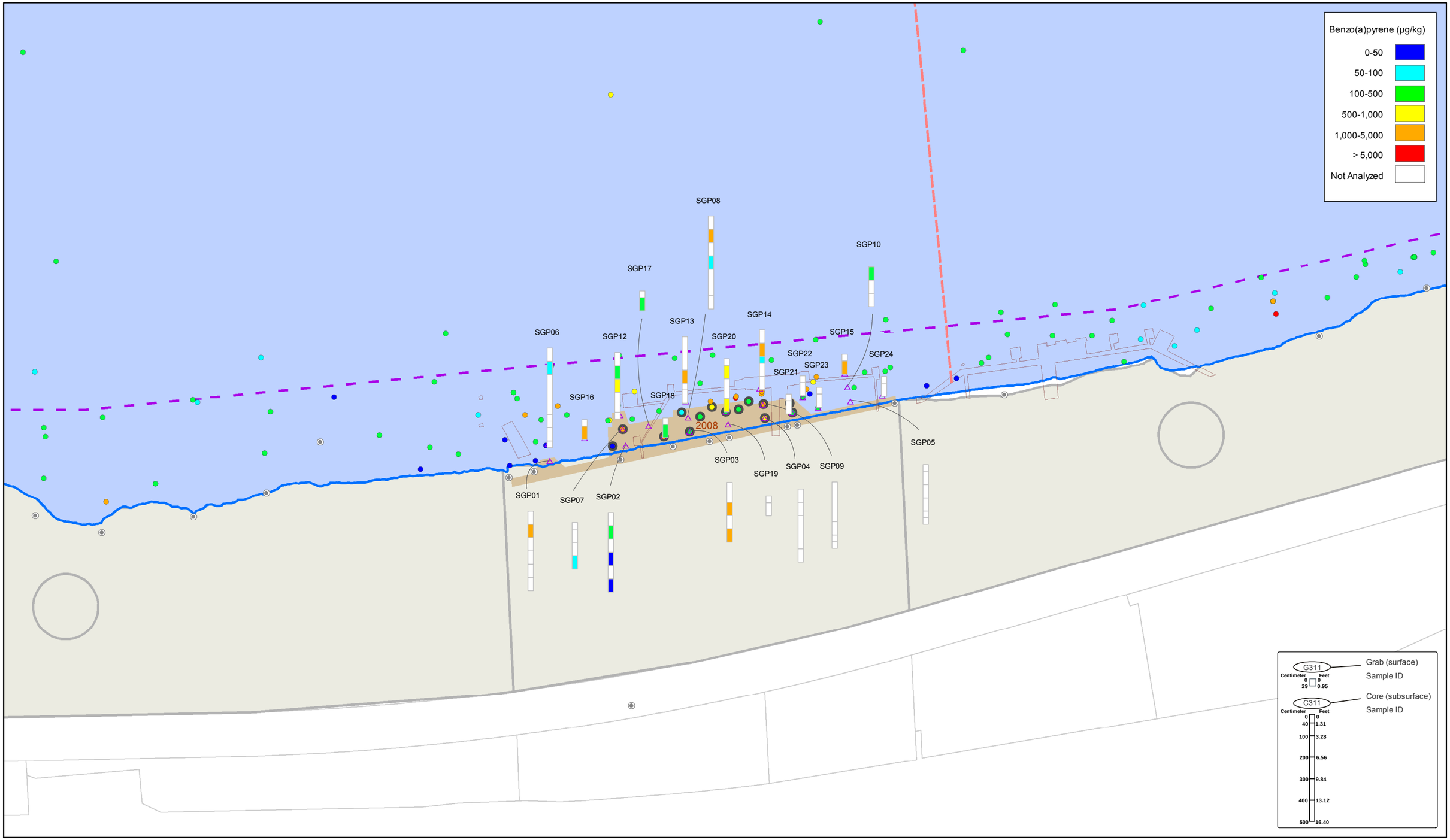
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 04 to 05 - Slips - Inset 1

Map Document: (O:\SubTasks\B0101_7TK_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Insets.mxd) - 3/10/2009 -- 11:26:36 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

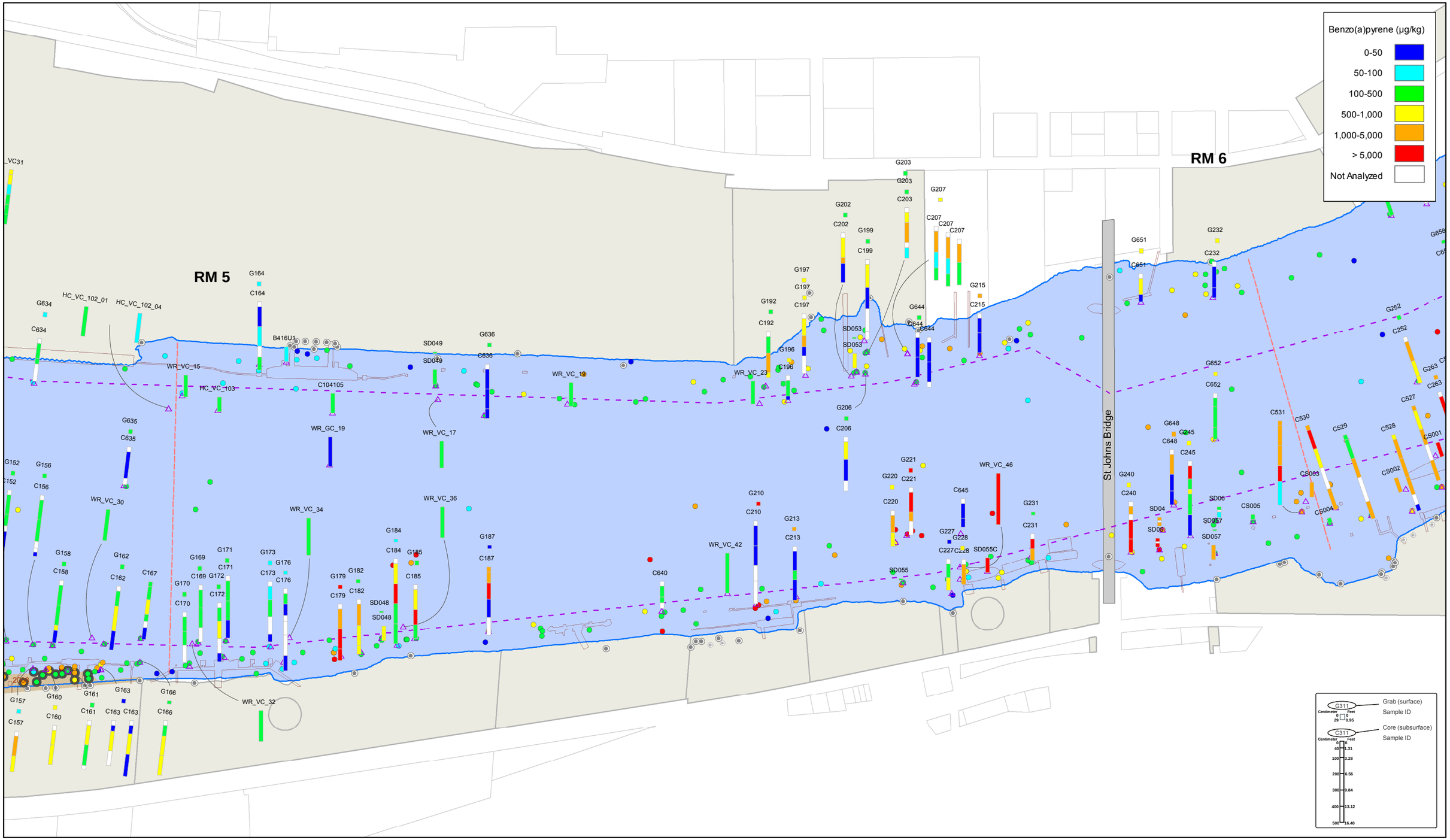
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29 e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

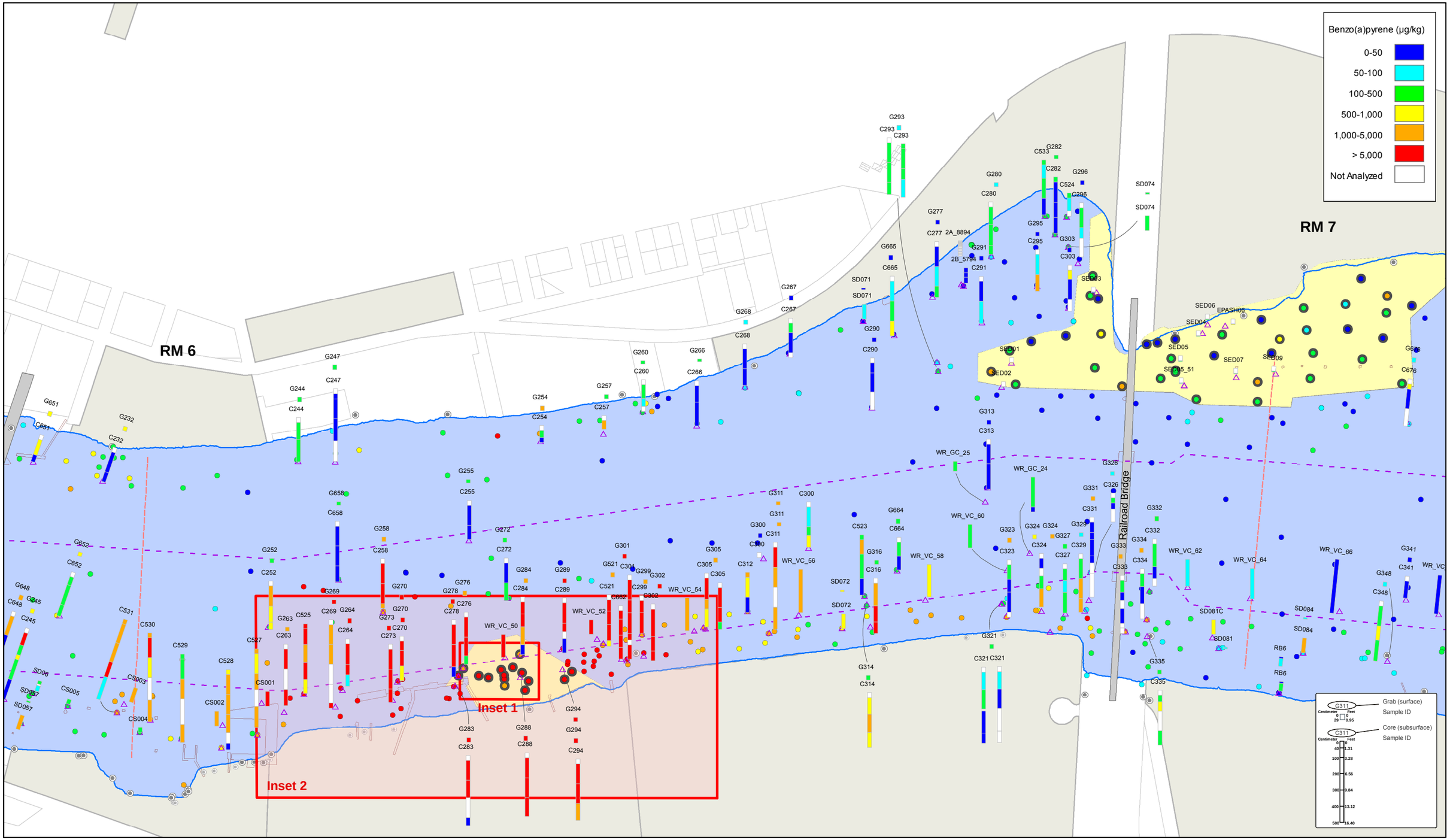
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 05 to 06



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

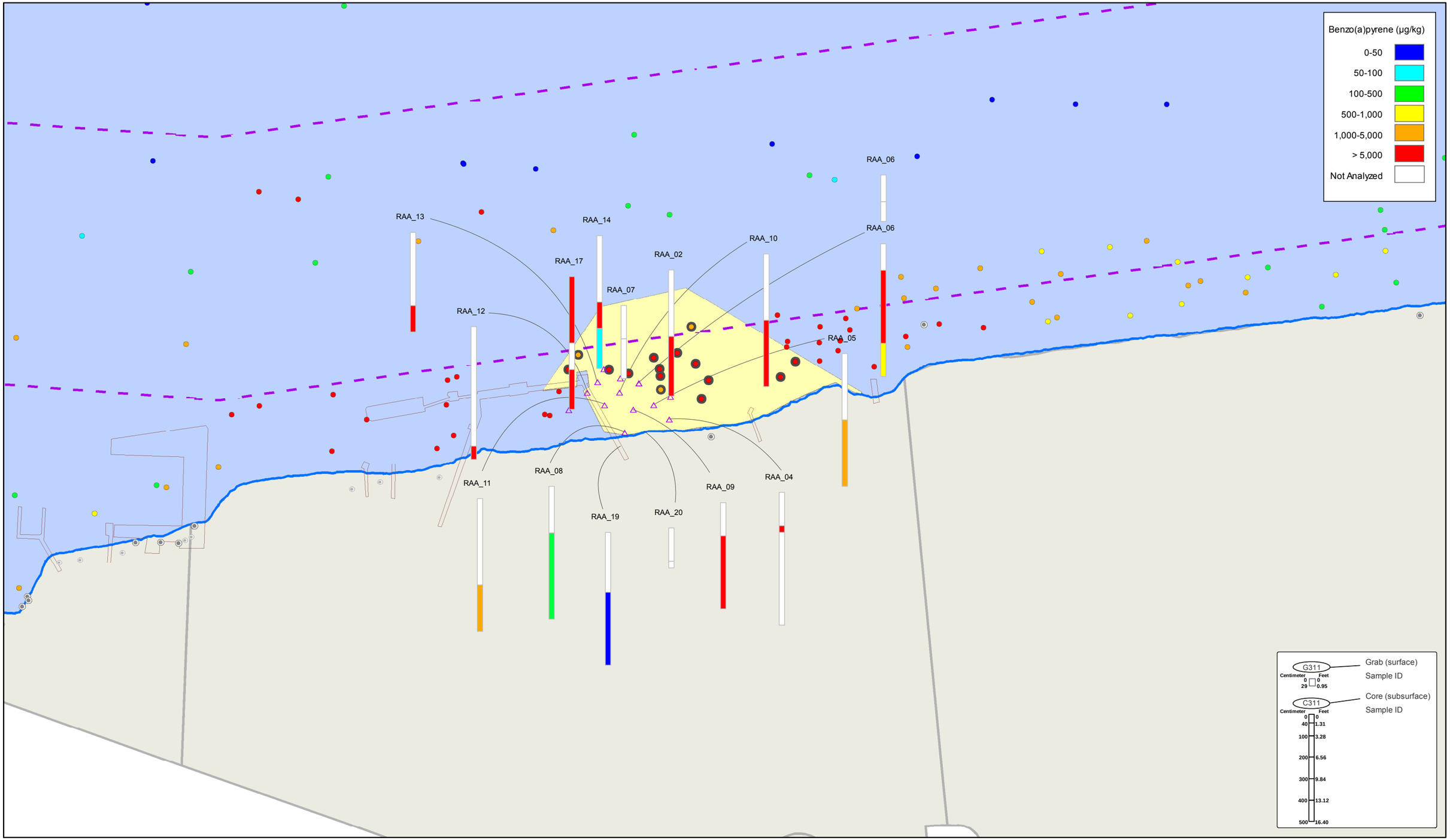
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Insets.mxd) - 3/10/2009 -- 11:26:36 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

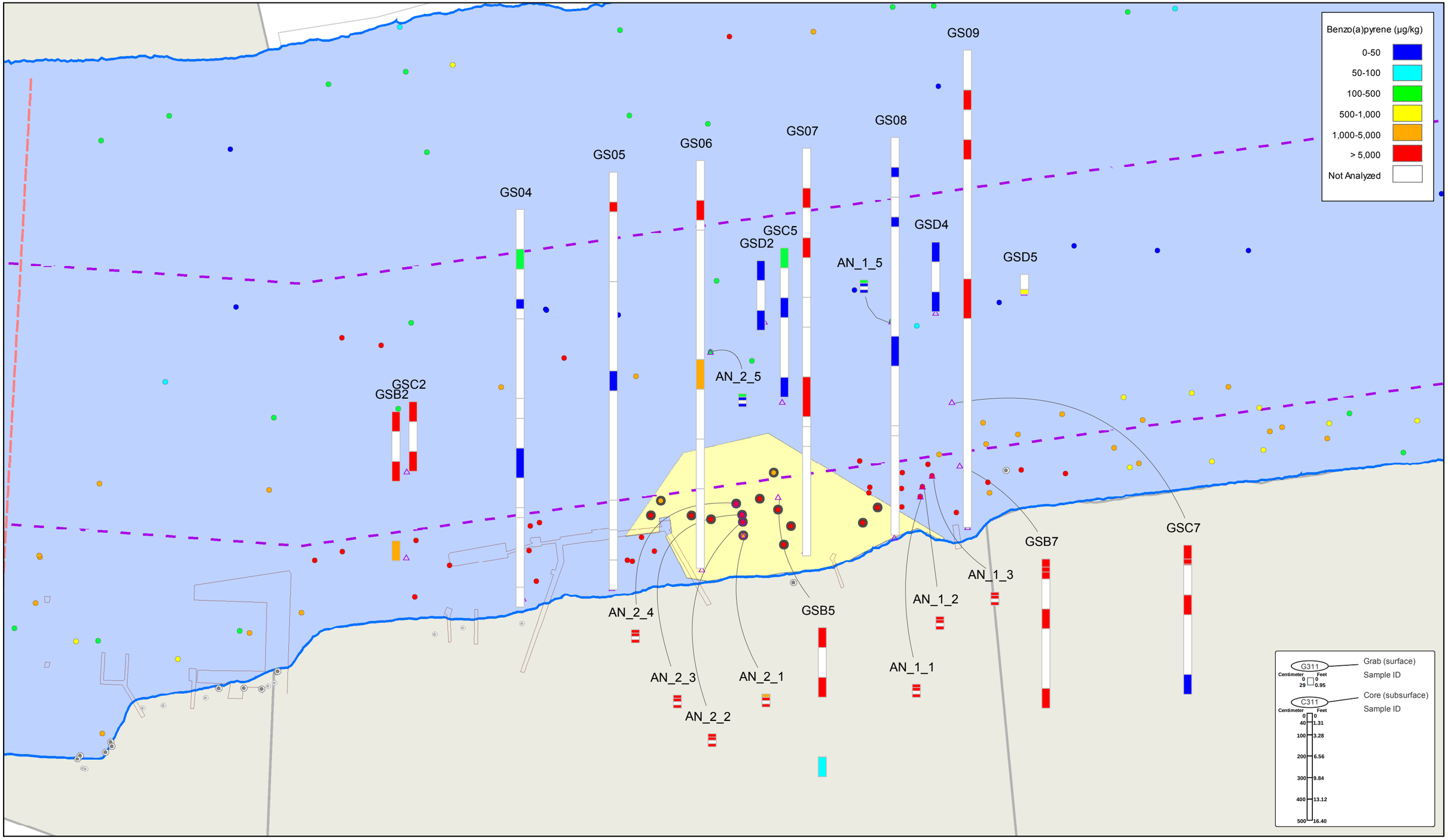
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

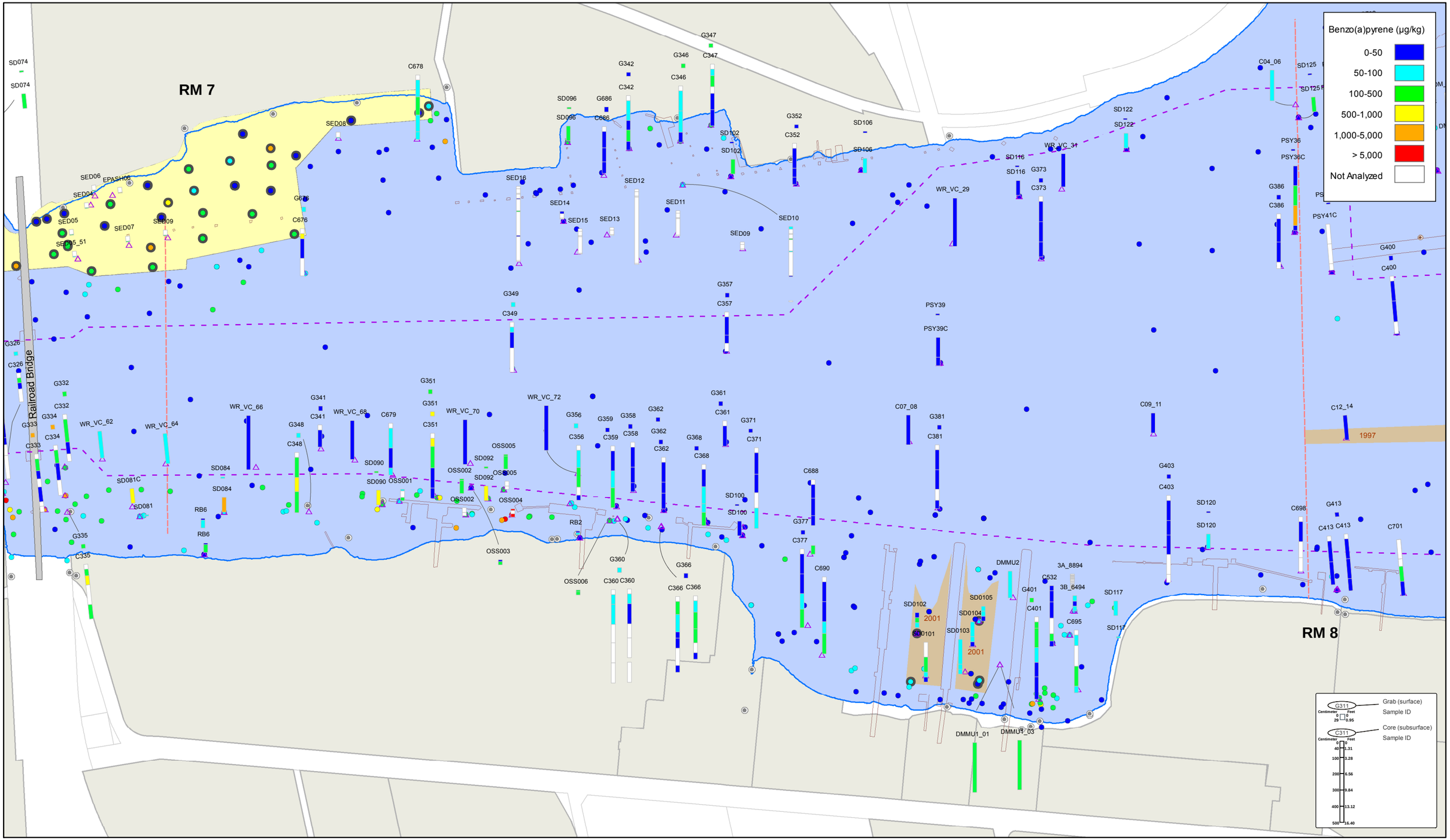
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 06 to 07 - Inset 2



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

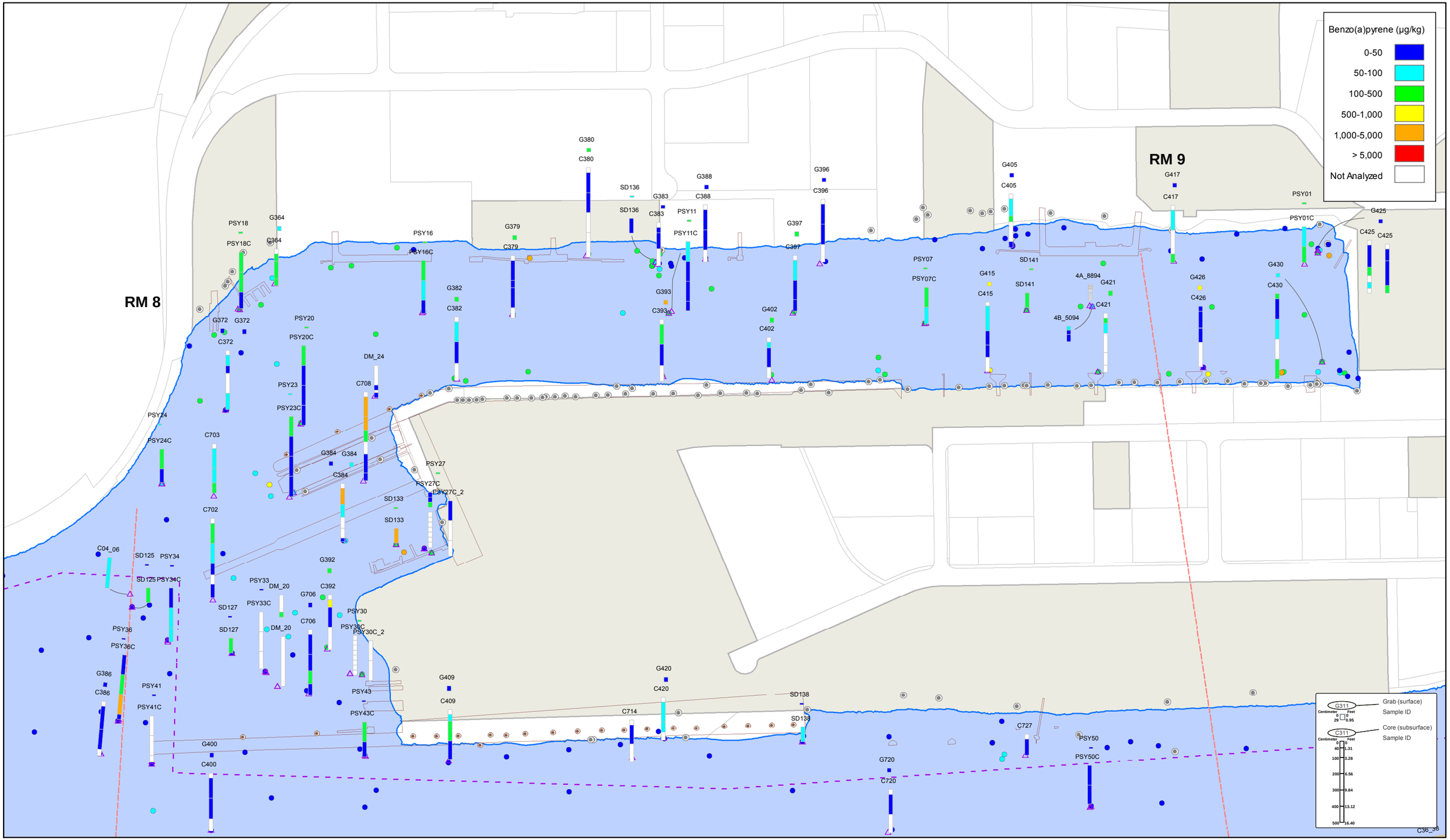
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

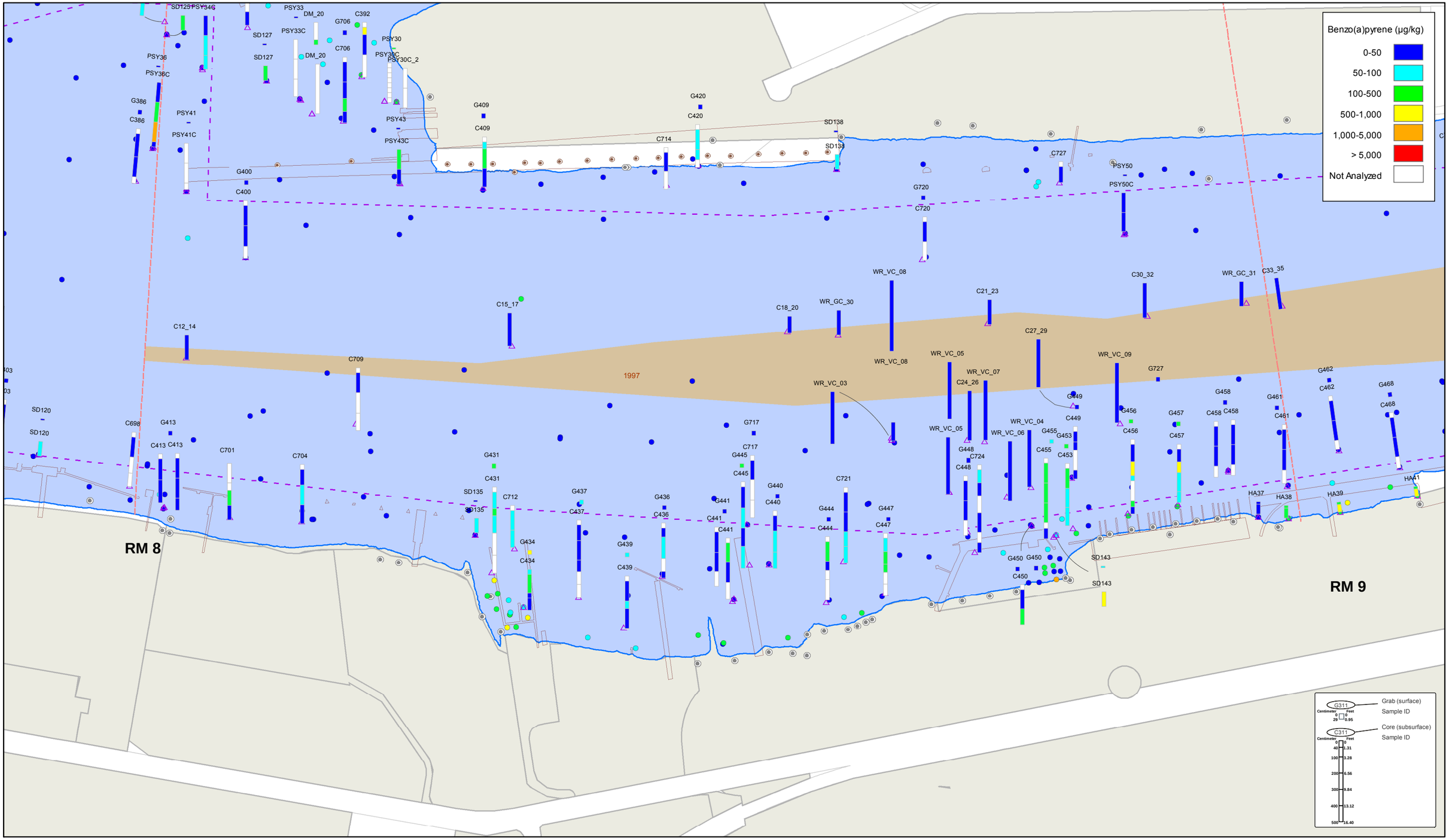
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 08 to 09 - Swan Is. East



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/13/2009 -- 11:39:42 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

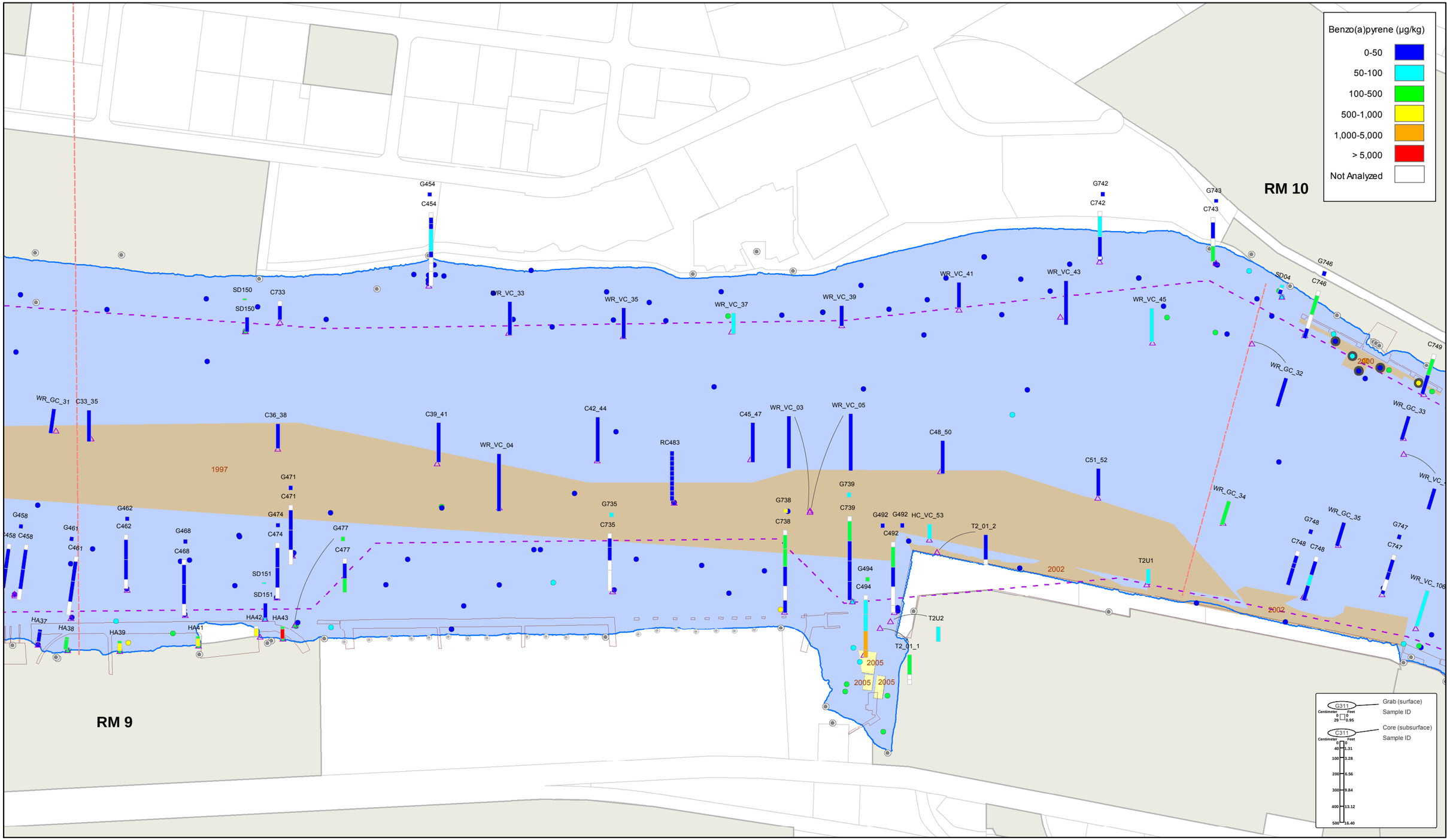
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 08 to 09 - Swan Is. West

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/13/2009 -- 11:39:42 AM



N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

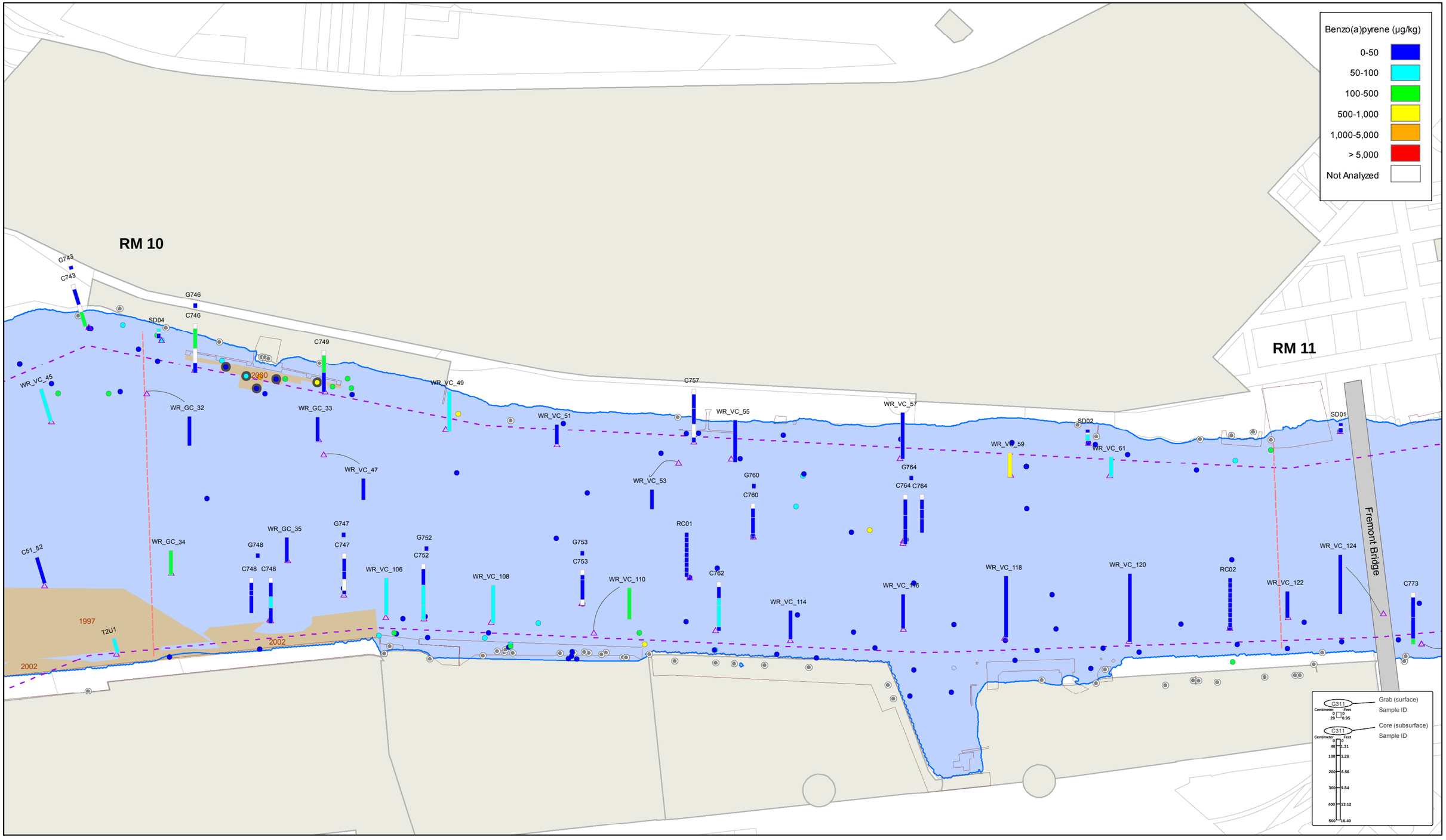
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

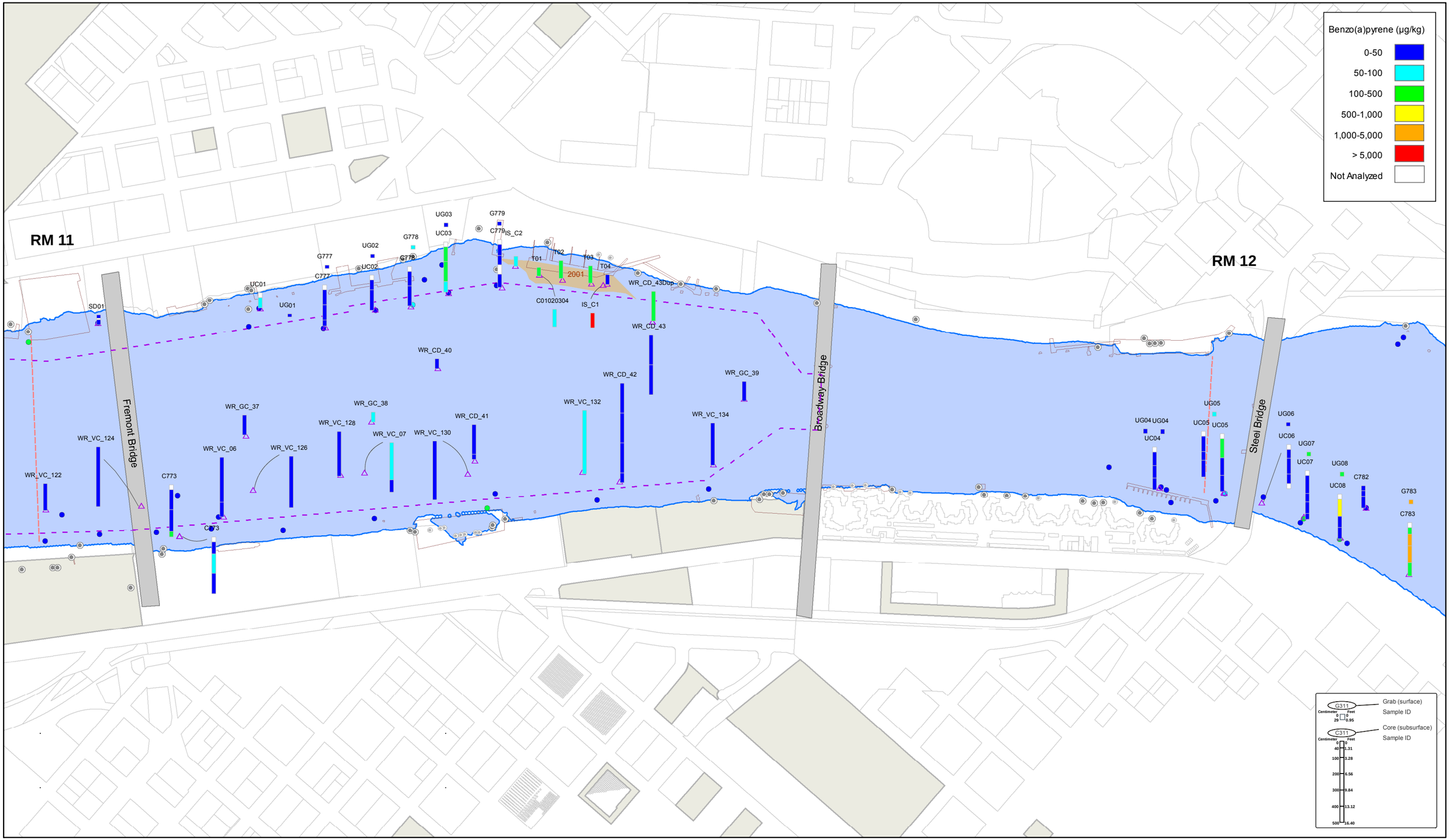
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 10 to 11



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

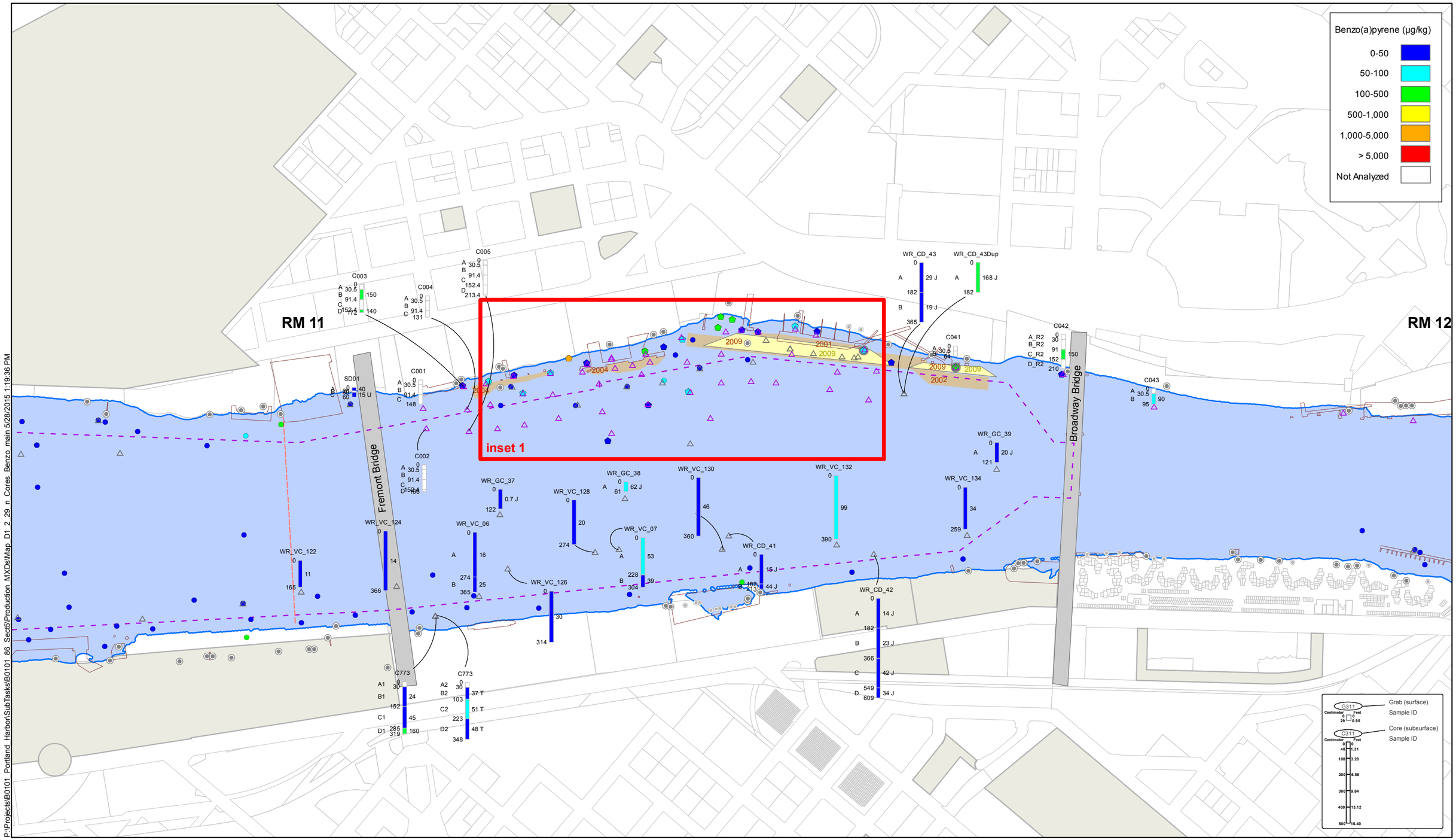
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29 m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
River Mile 11 to 12

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-20_Cores_Benzo(a)pyrene_Main.mxd) - 3/10/2009 -- 11:14:44 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

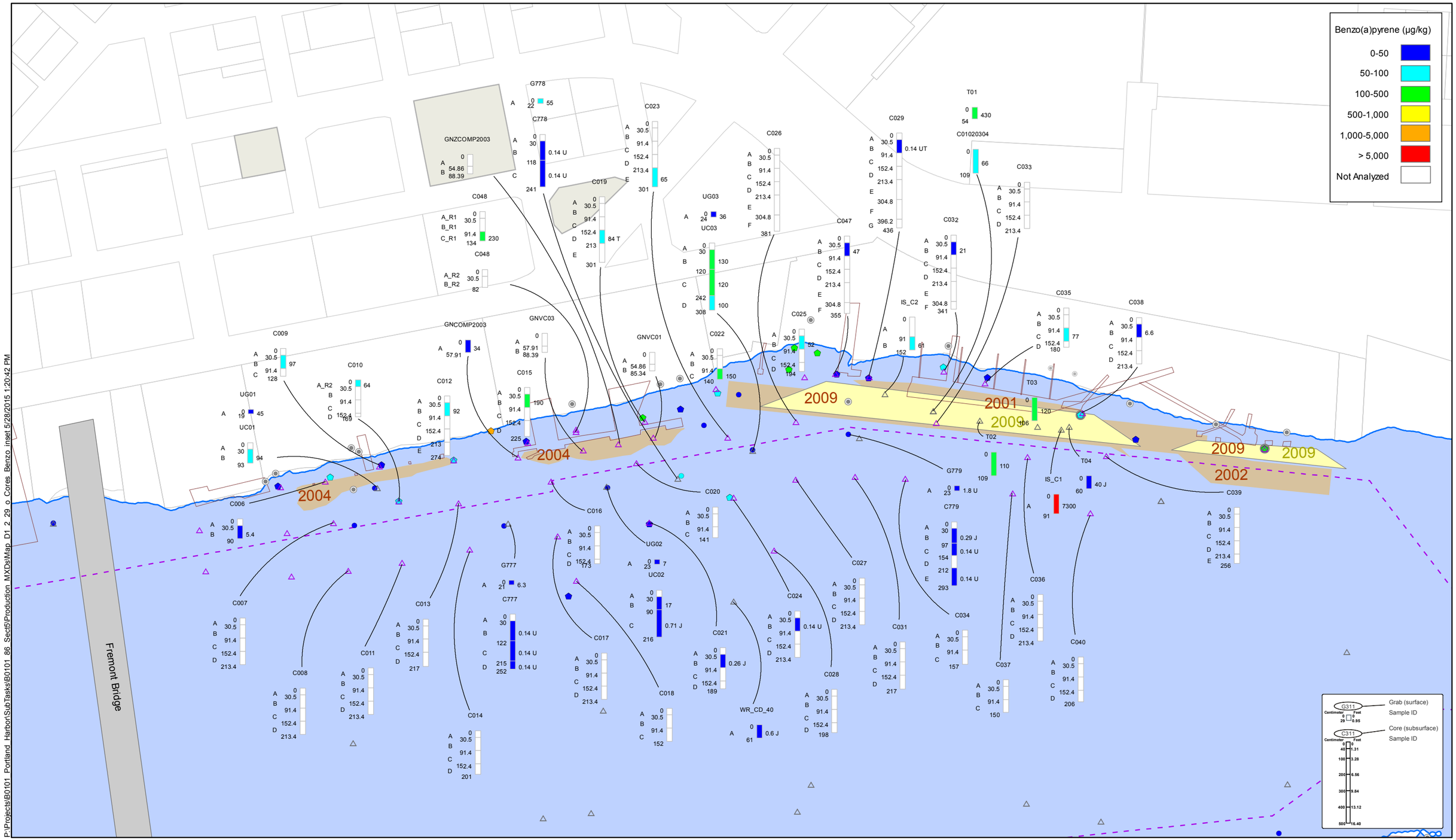
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_29_n_Cores_Benzo_main 5/28/2015 1:19:36 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-29o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Benzo(a)pyrene (µg/kg)

River Mile 11.0 - 11.8 - Inset 1

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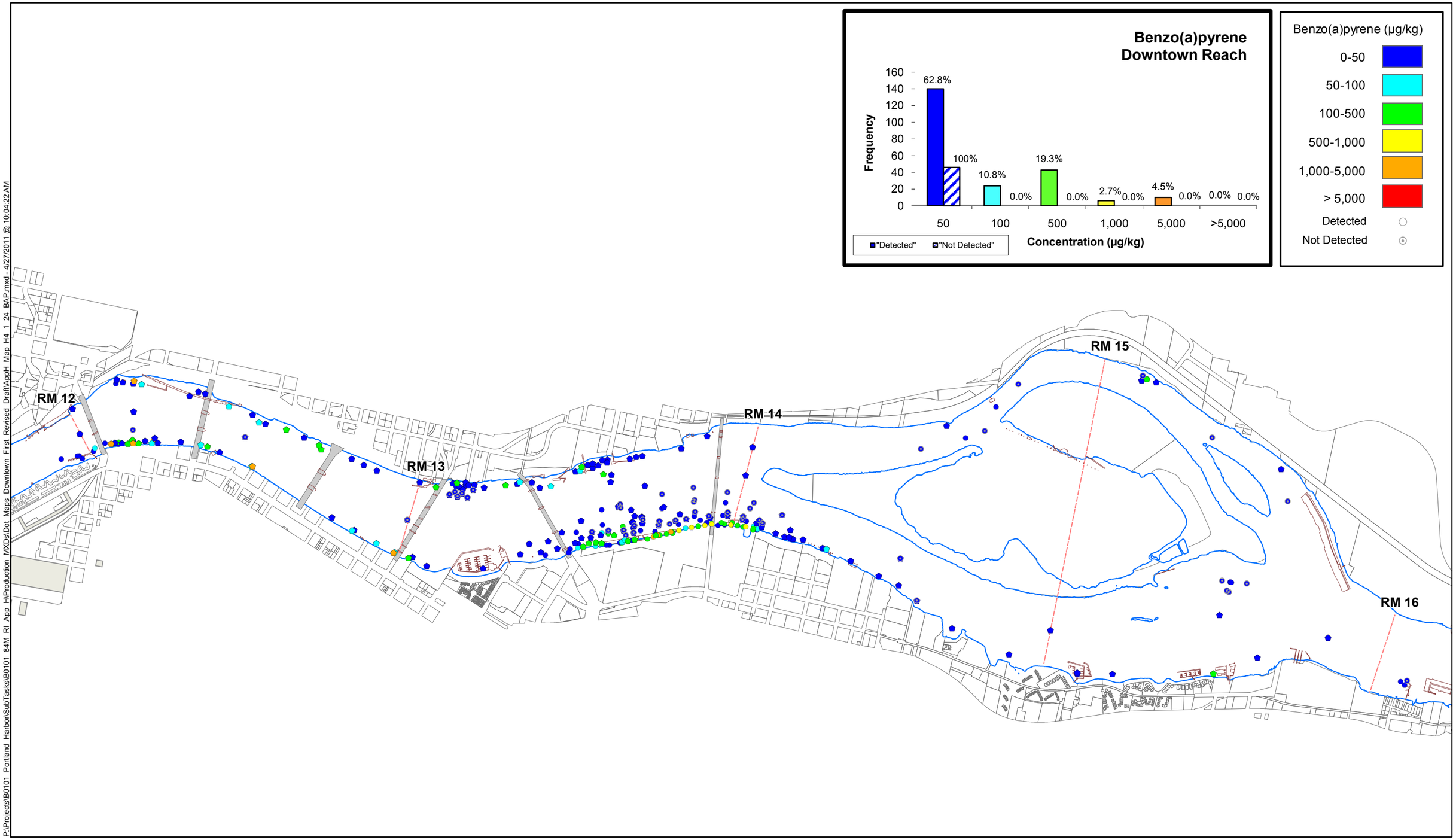

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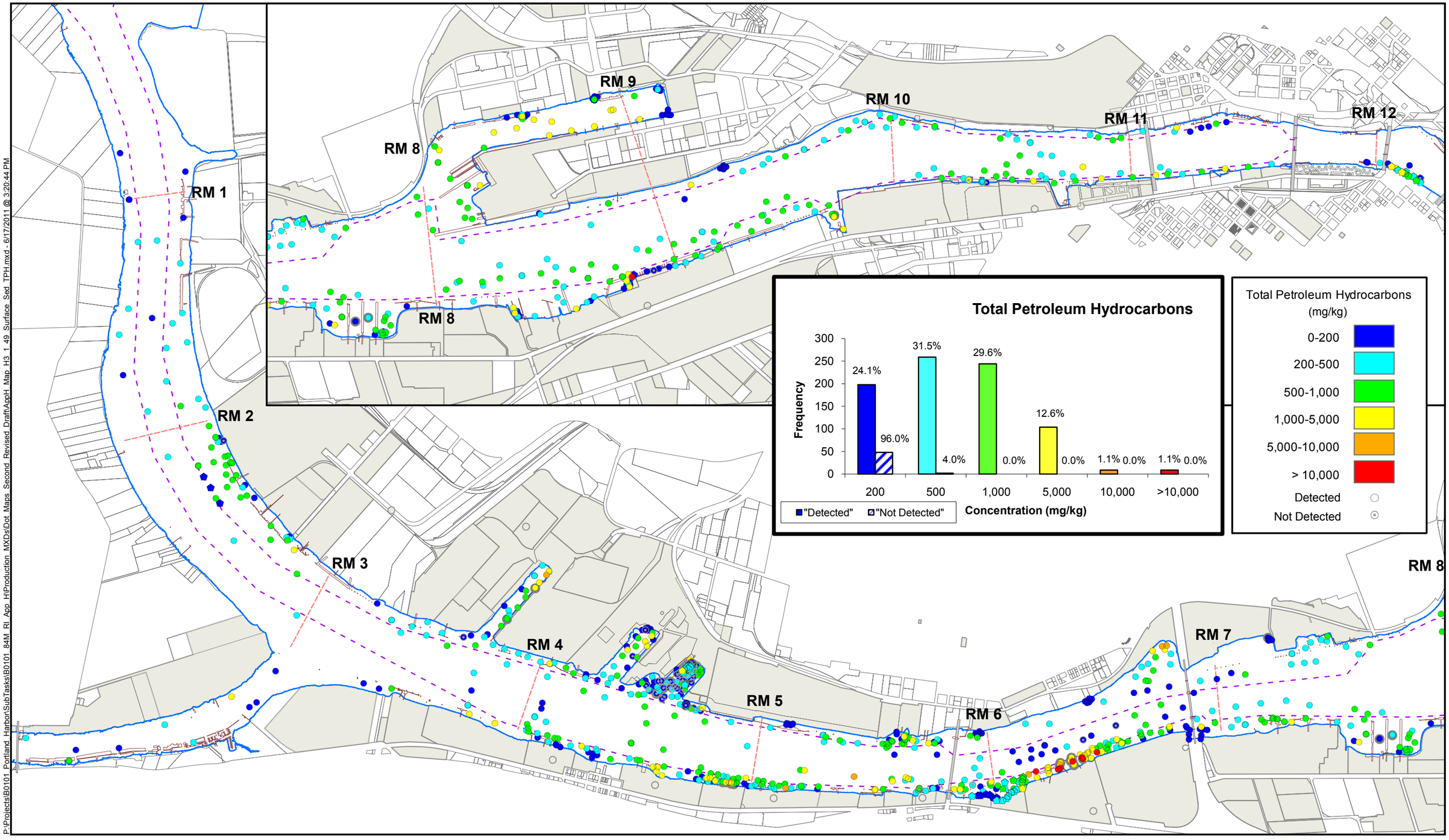
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-30
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Benzo(a)pyrene (µg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

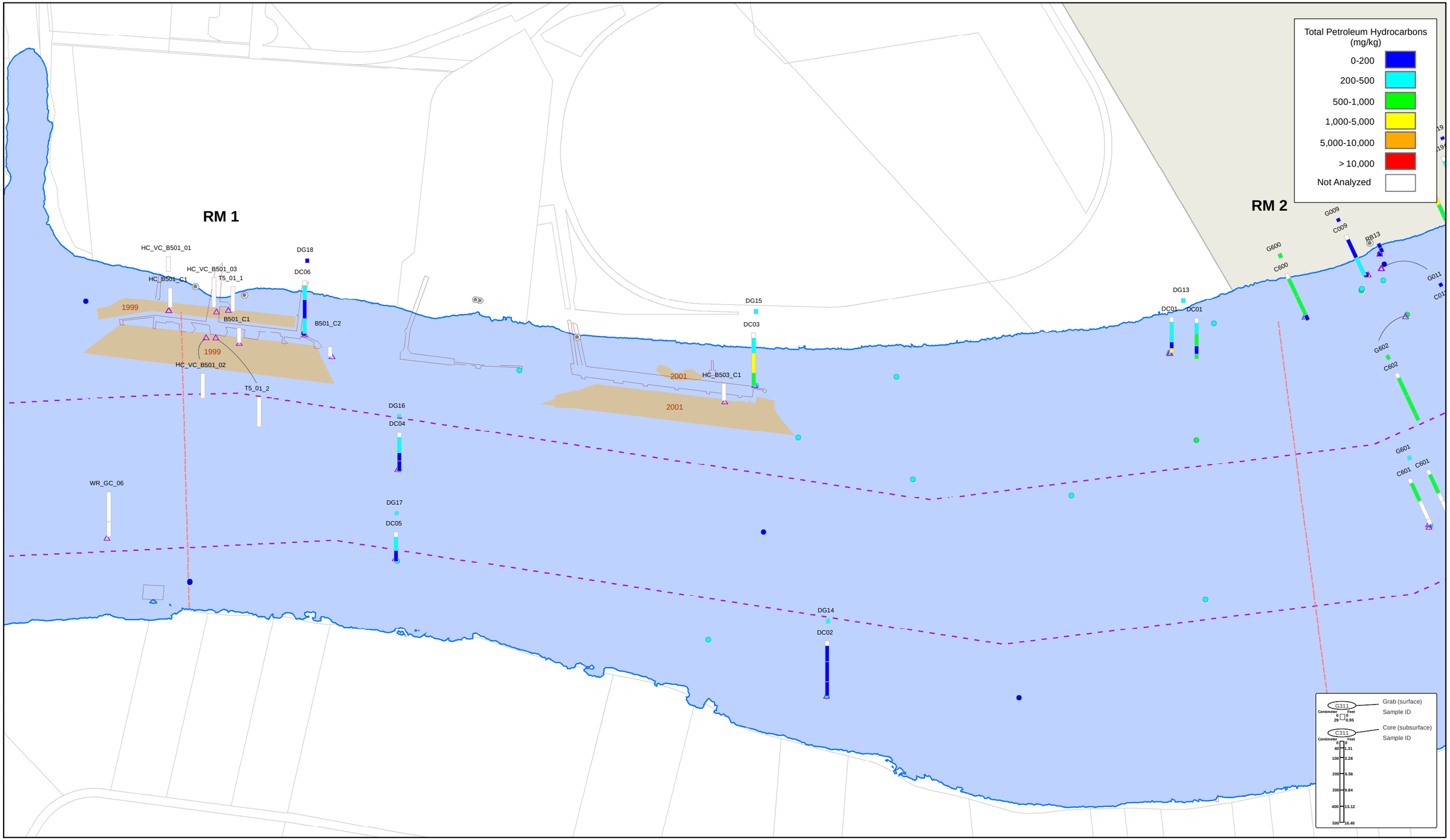
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-31
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

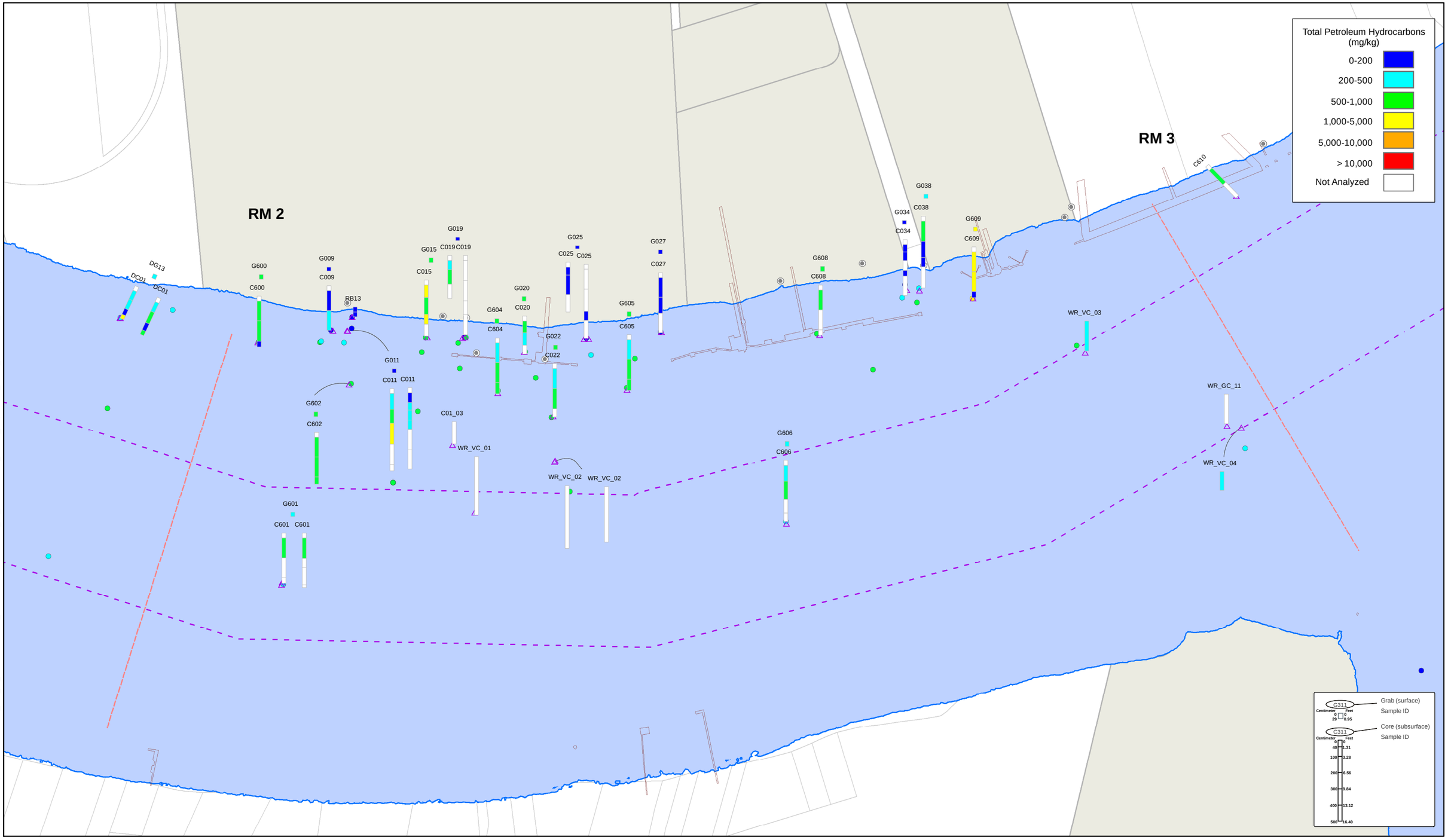
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

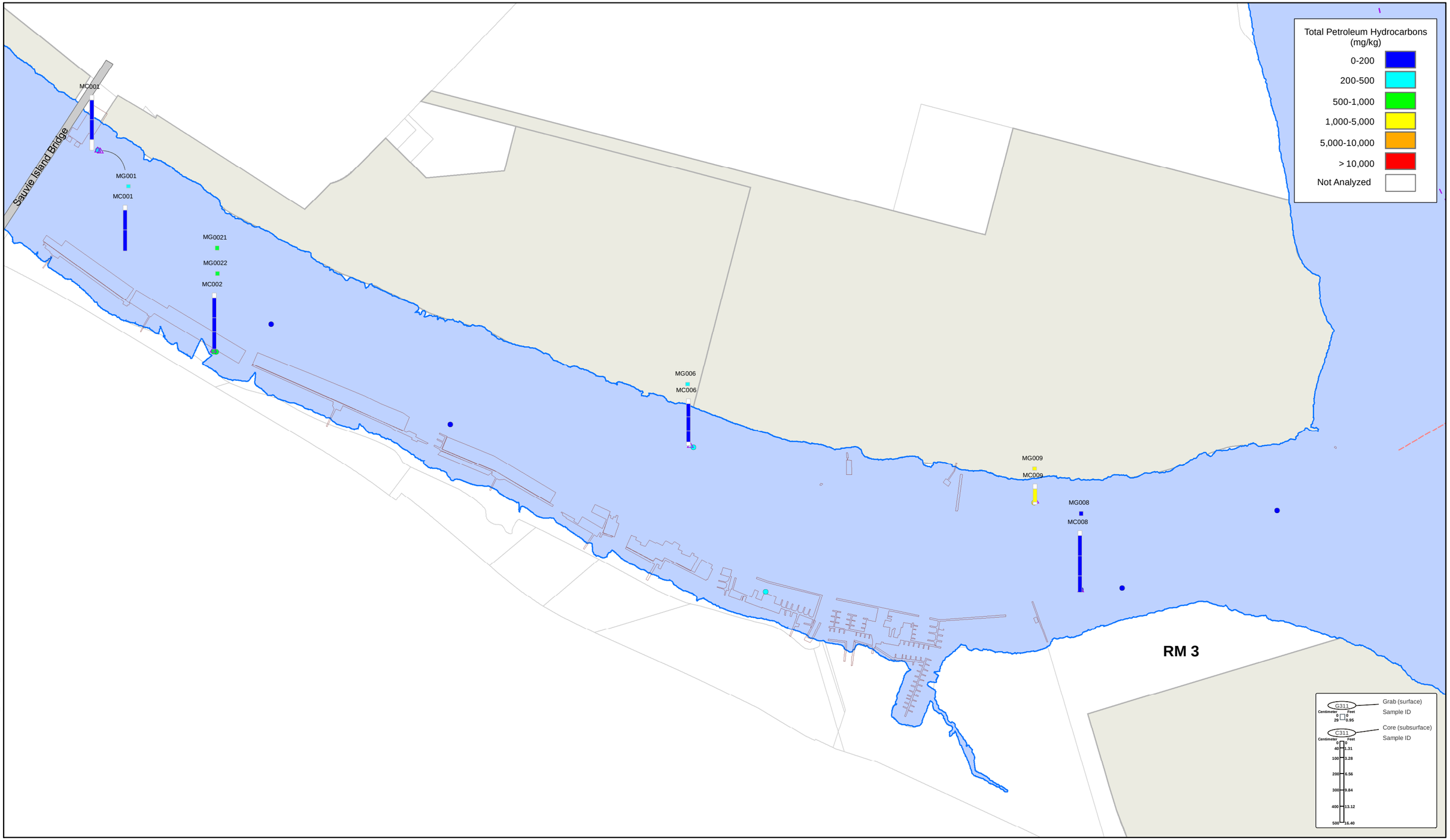
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

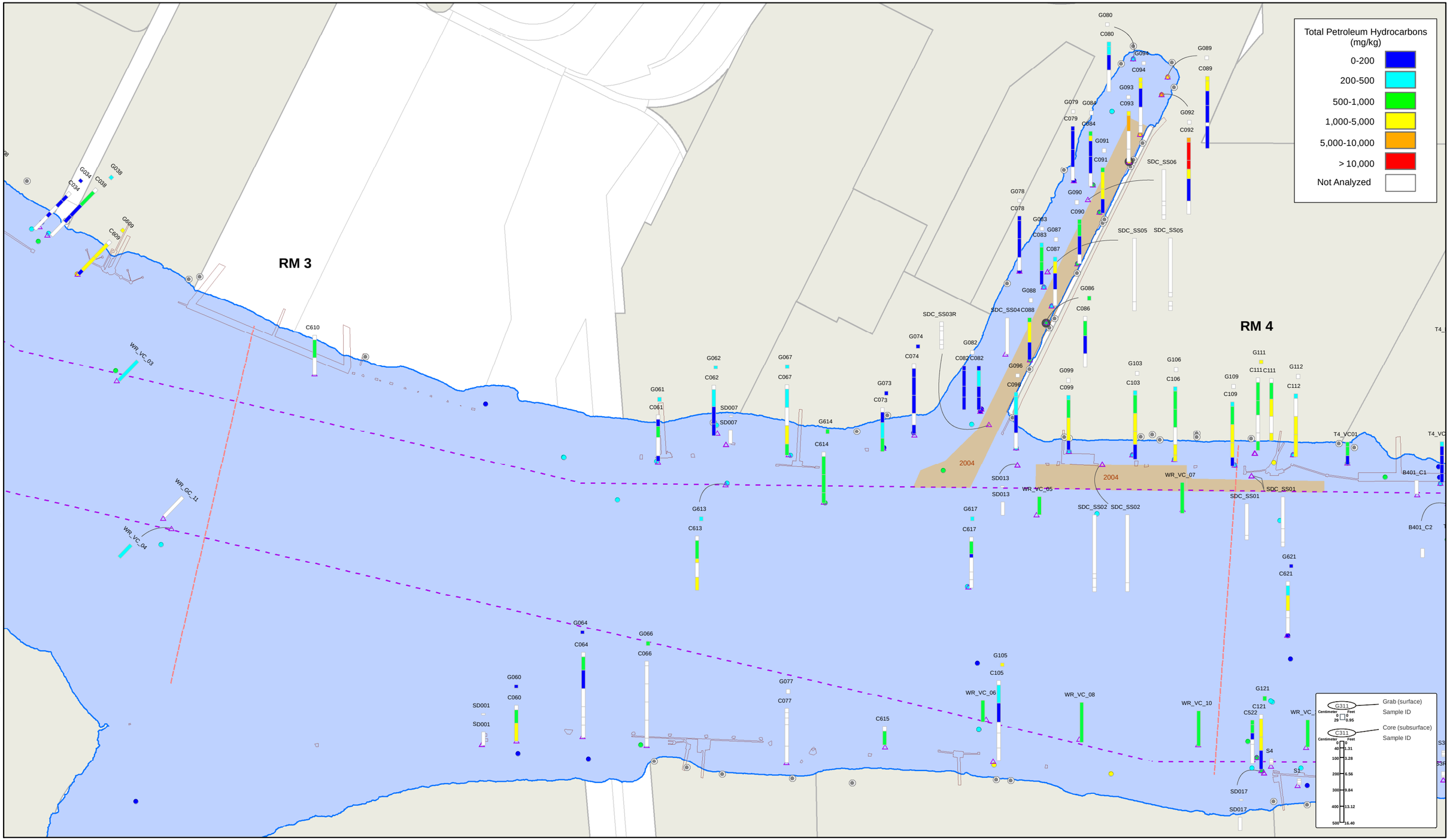
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 03 - Multnomah Channel

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

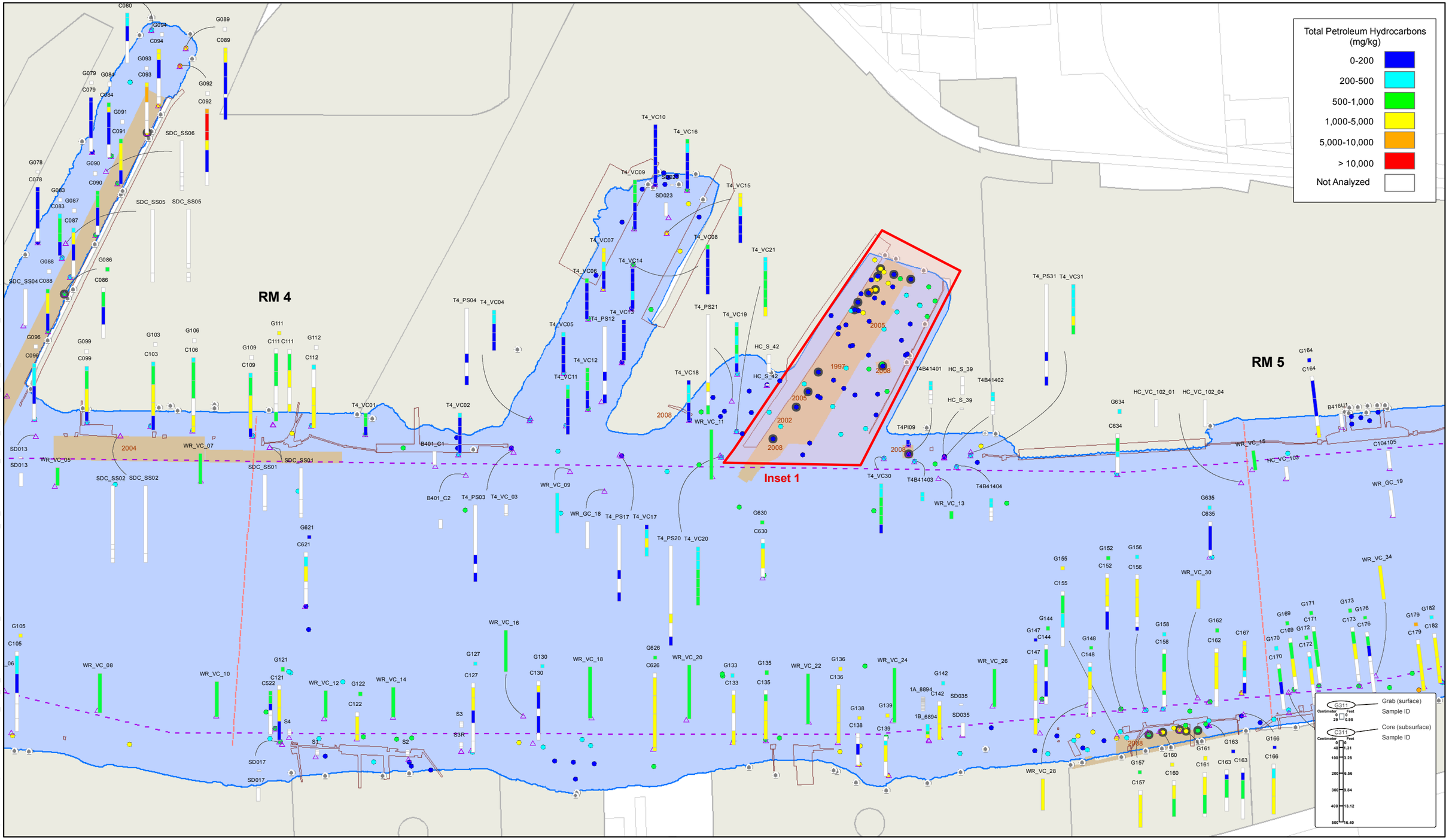
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

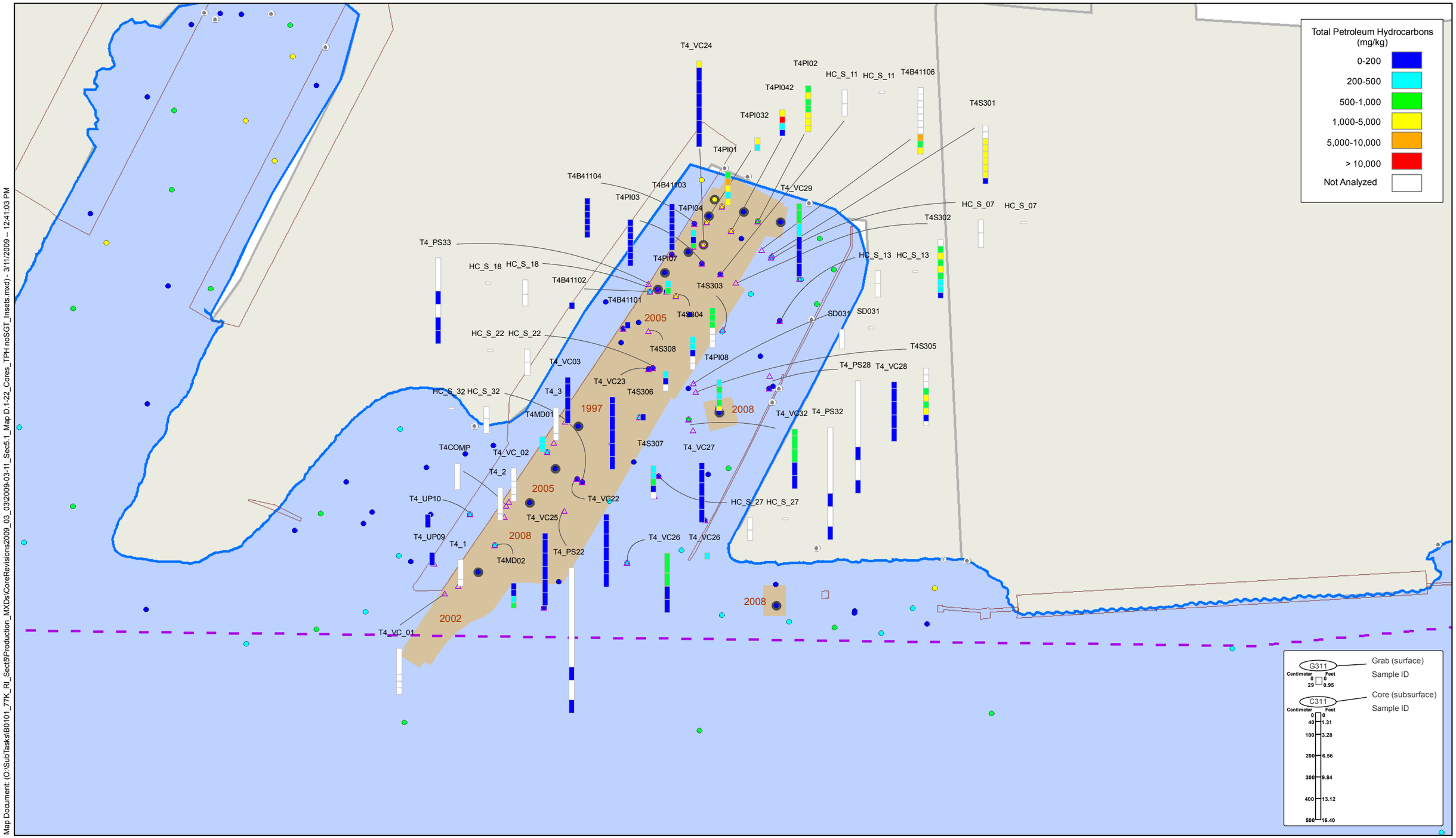
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

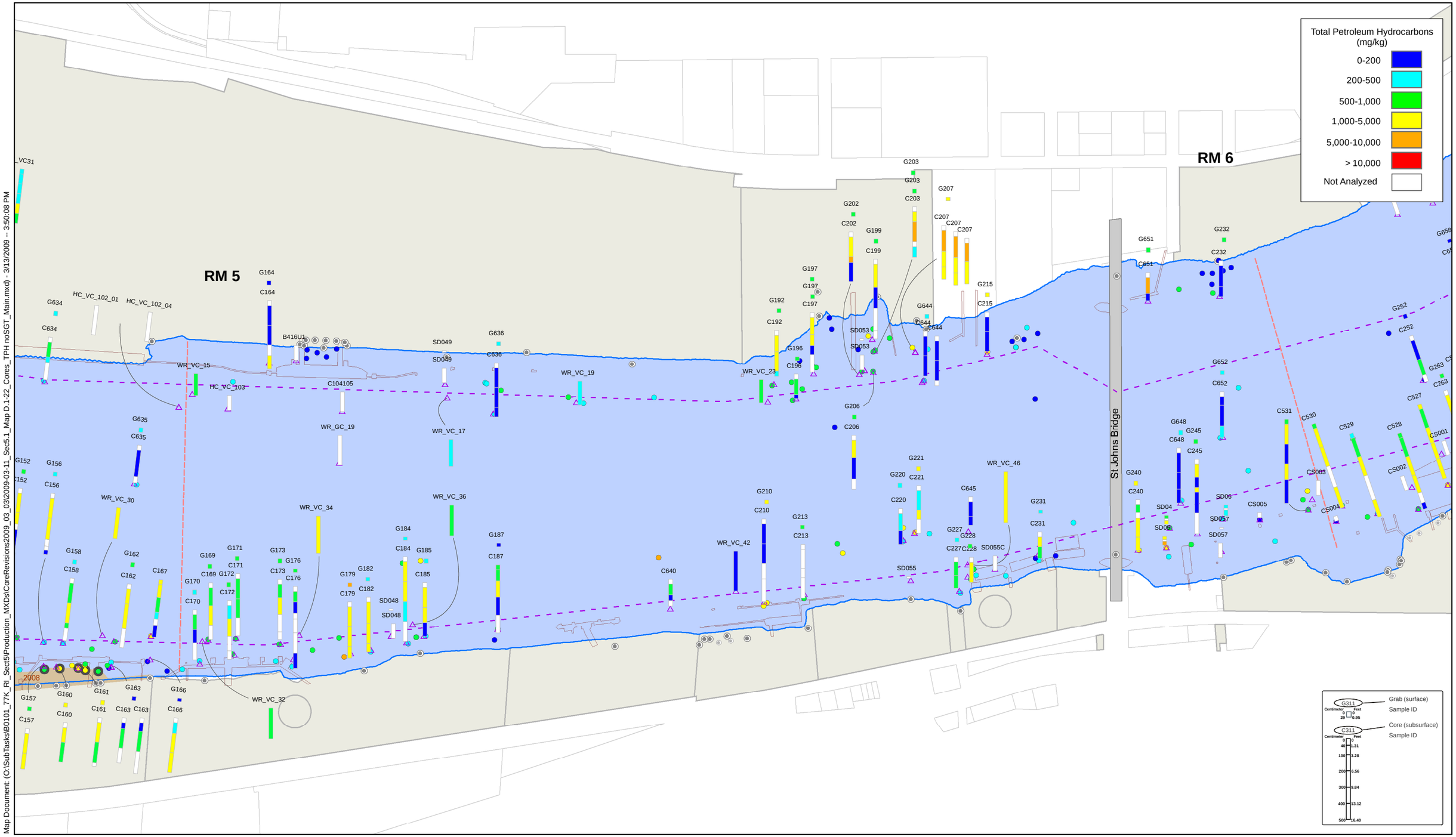
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

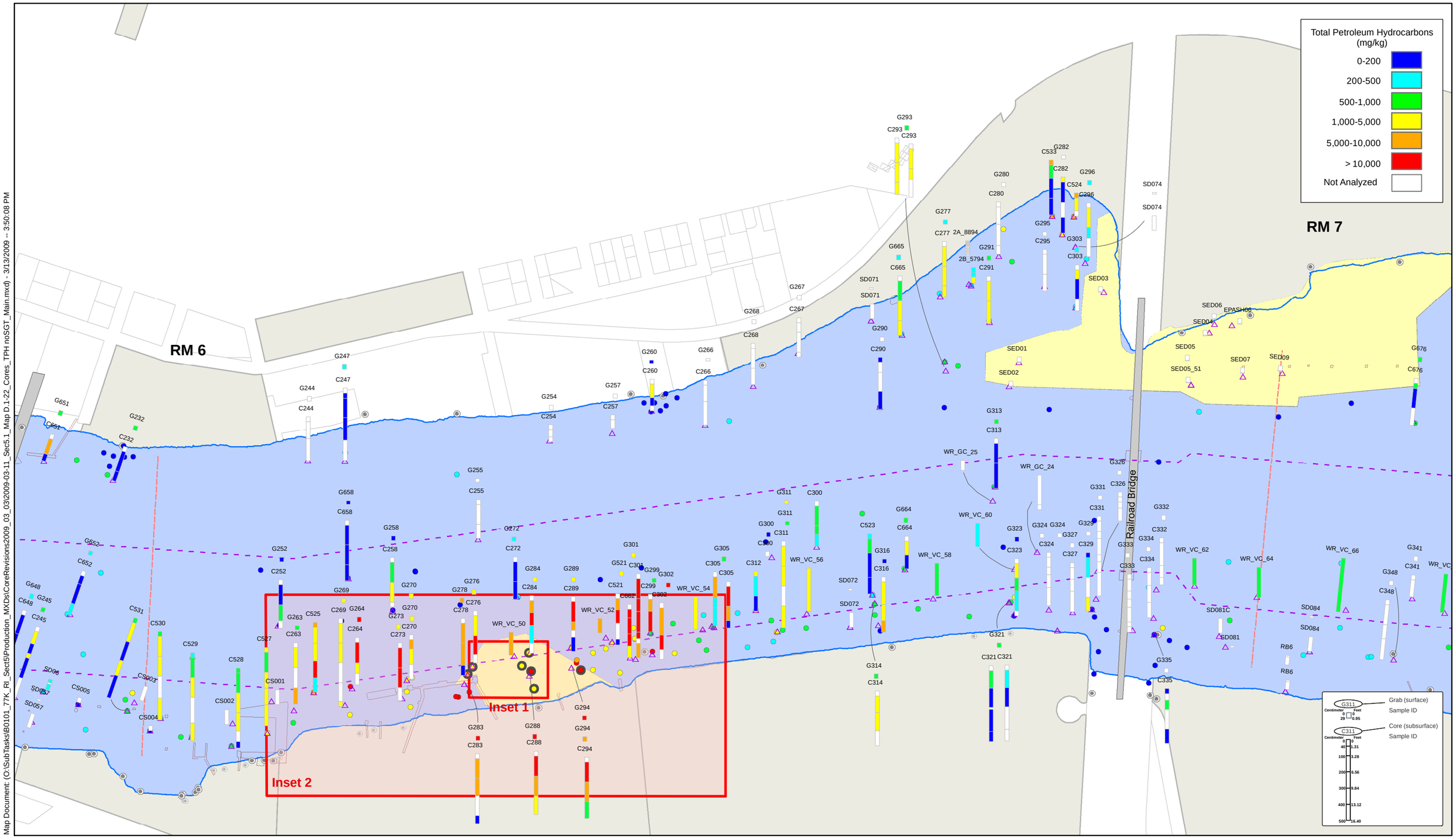
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

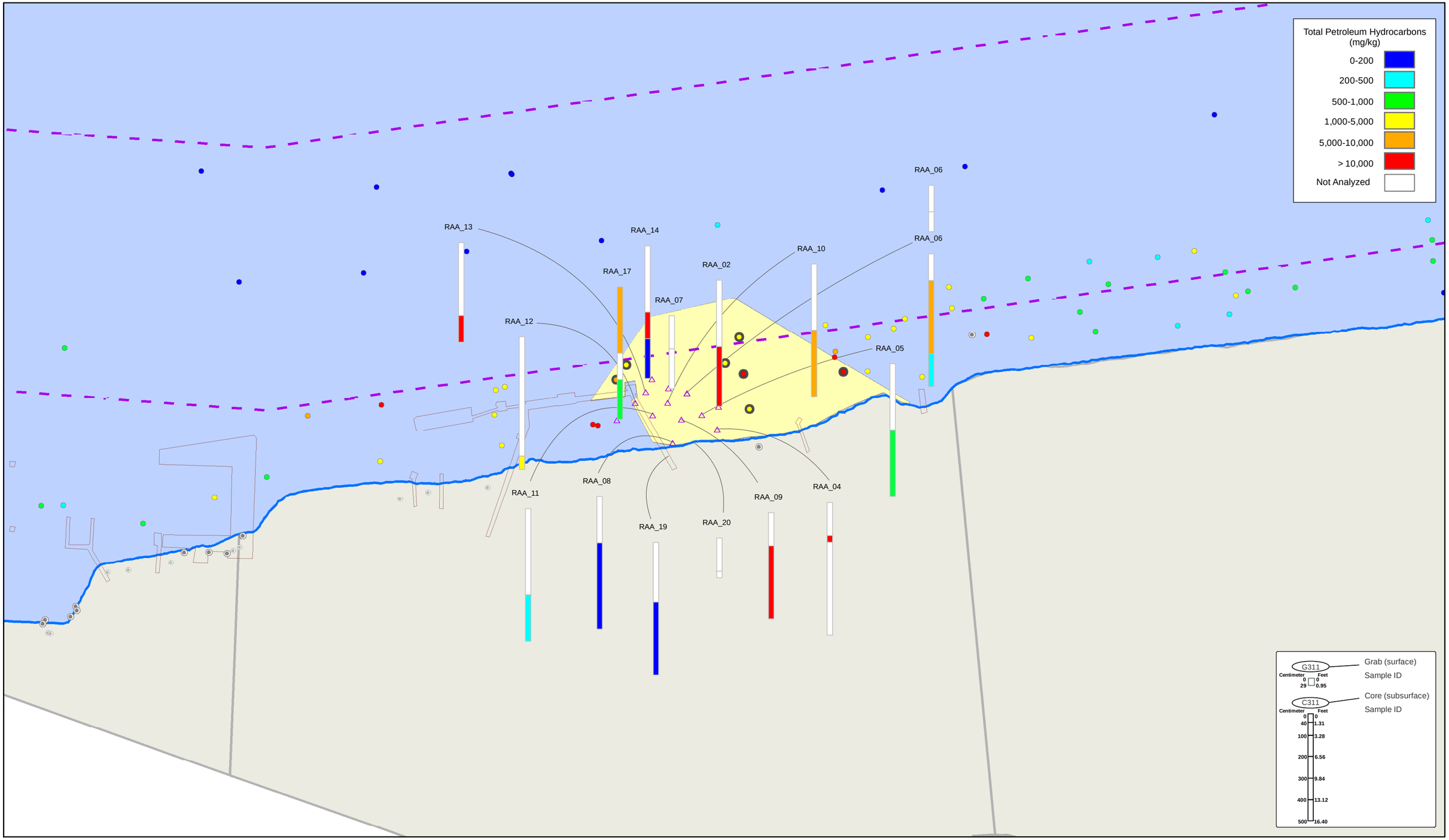
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

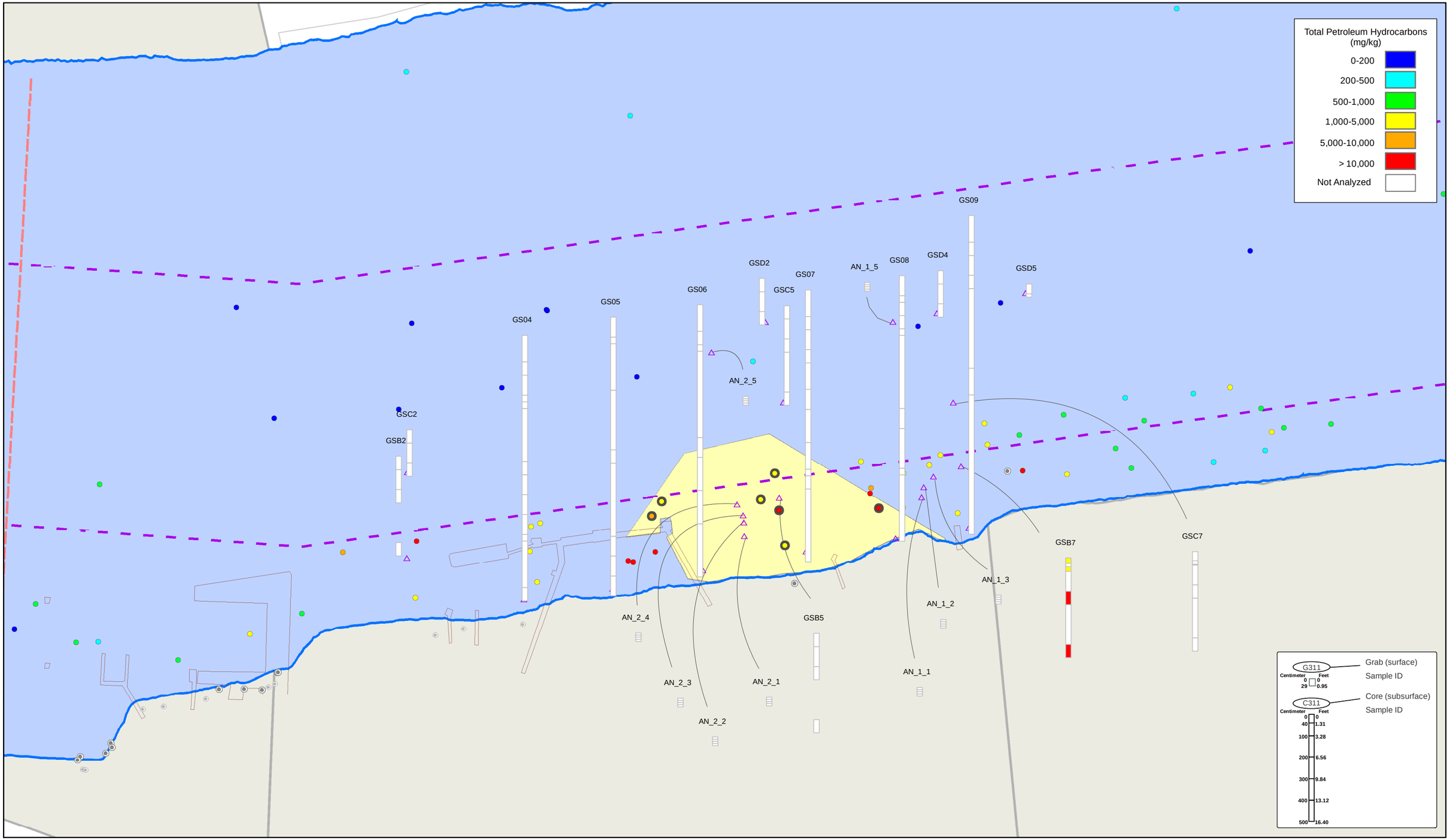
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

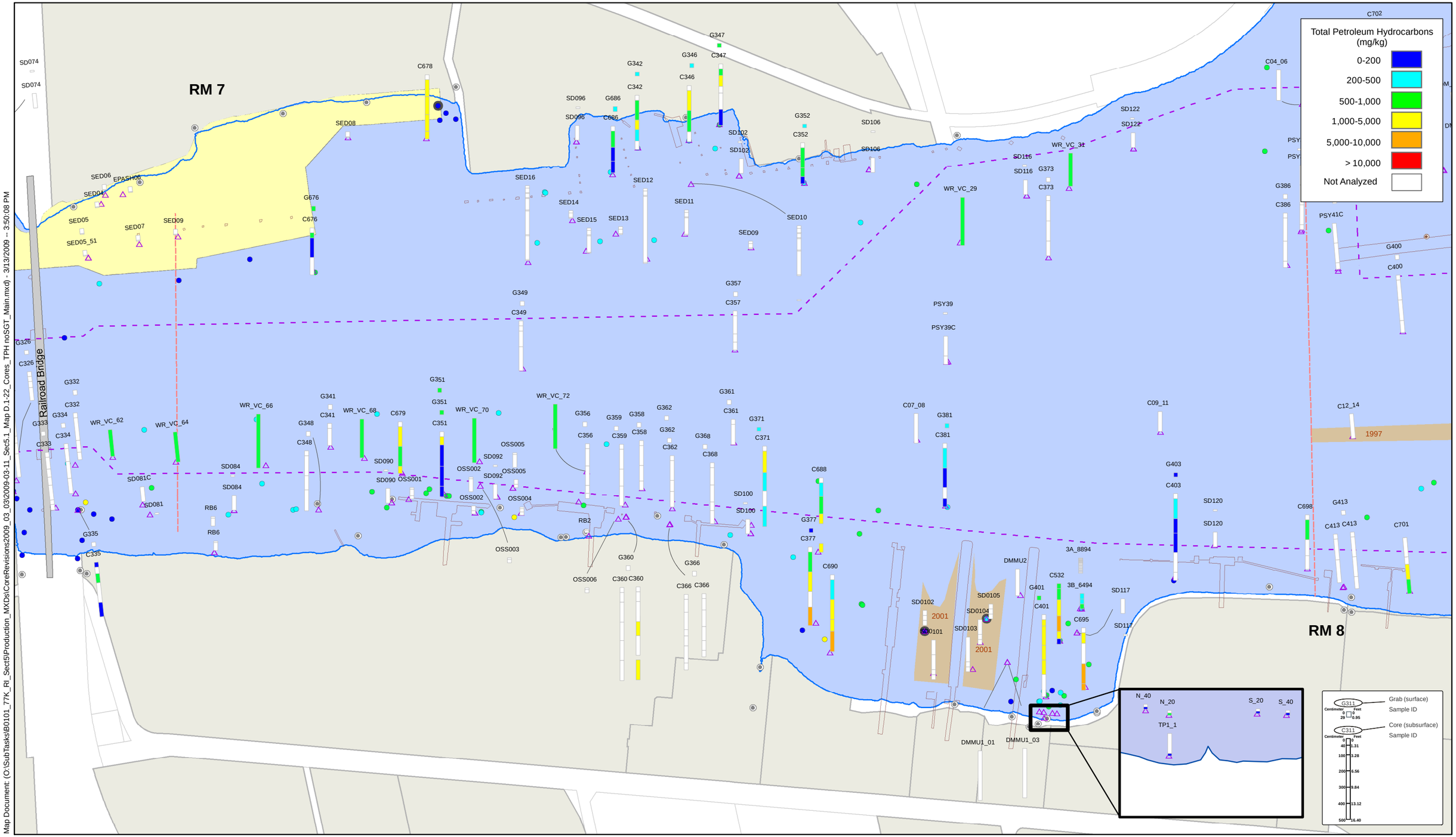
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

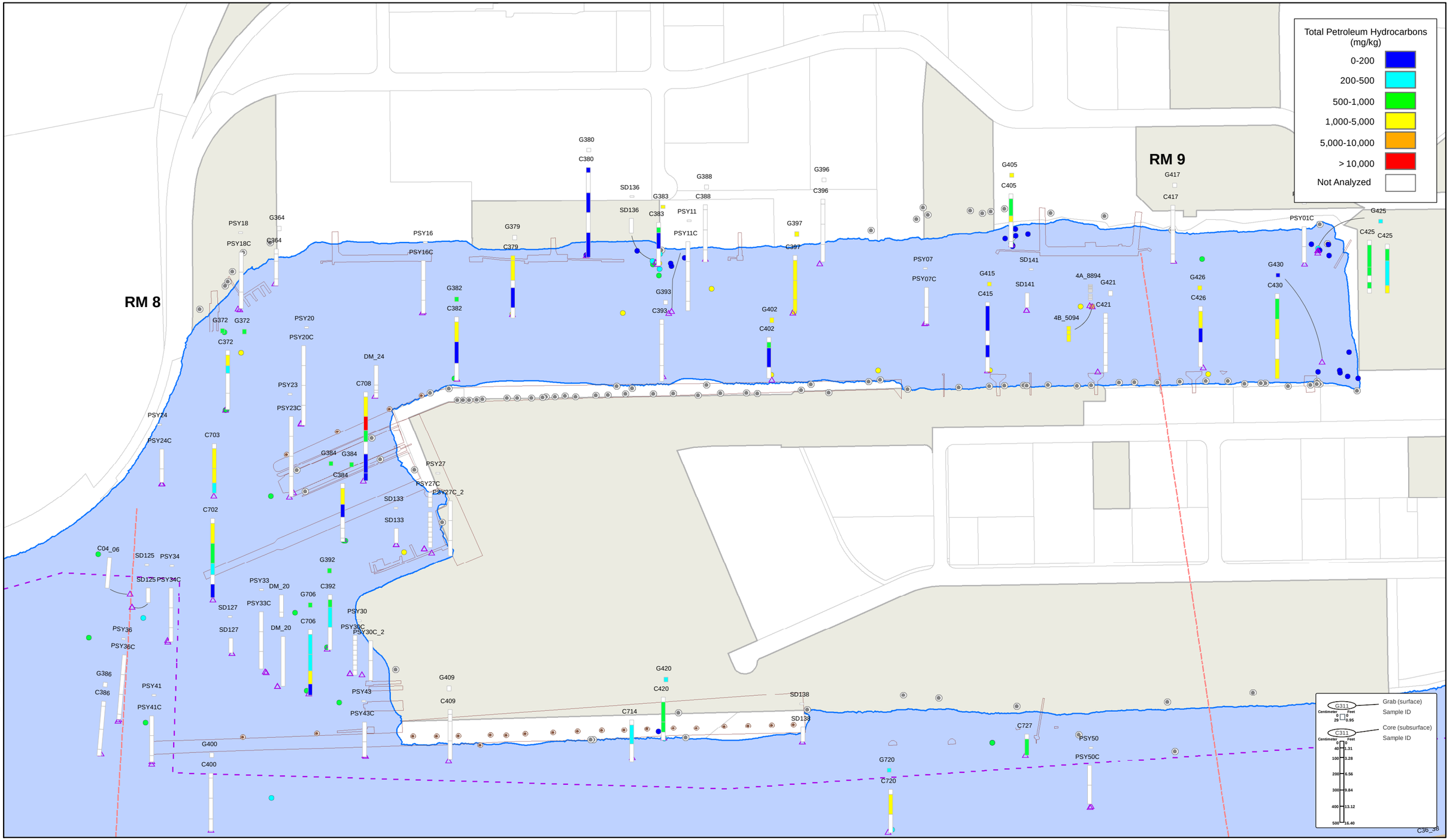
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 07 to 08



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_0312009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

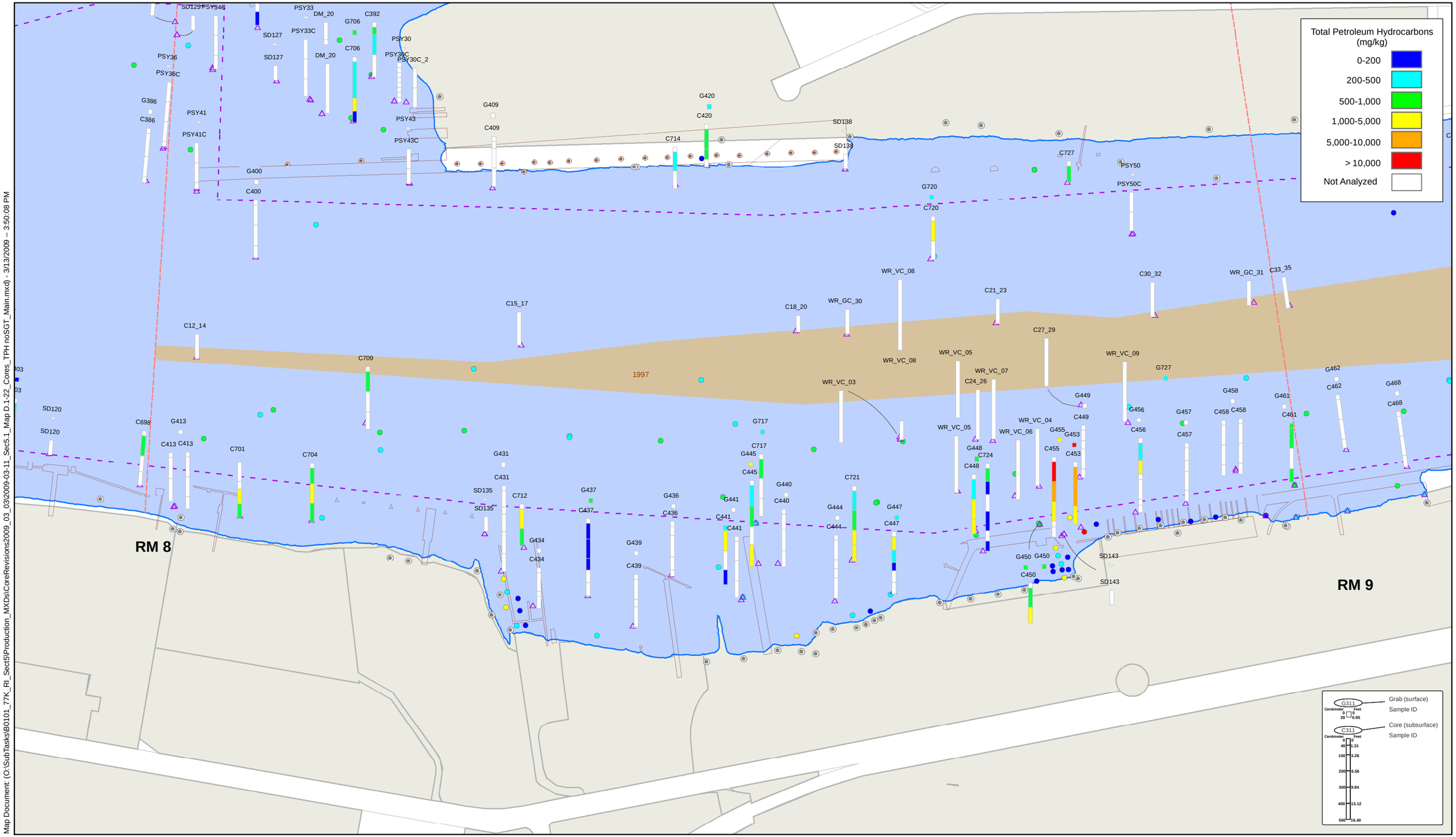
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 08 to 09 - Swan Is. East



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

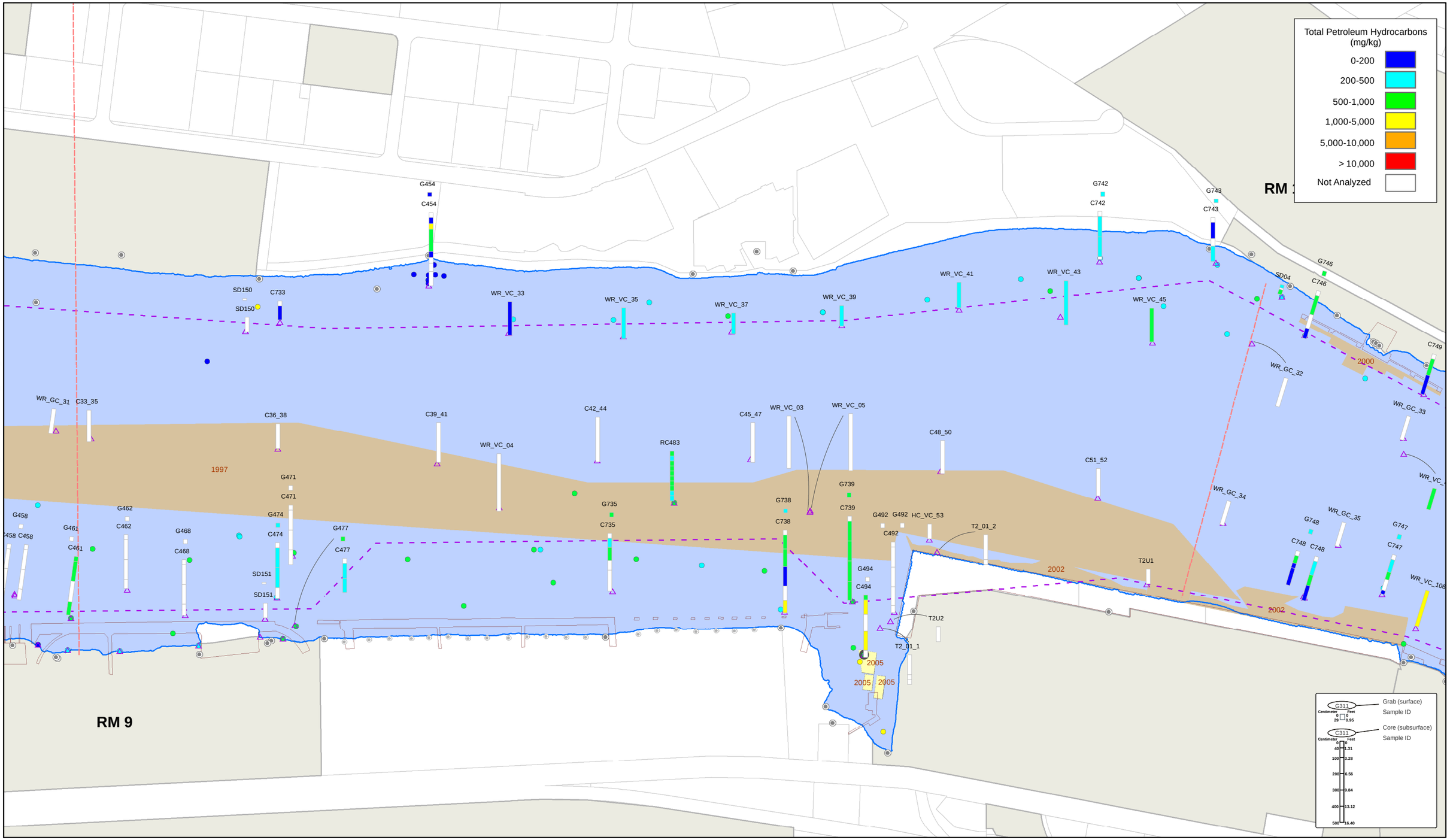
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 08 to 09 - Swan Is. West



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

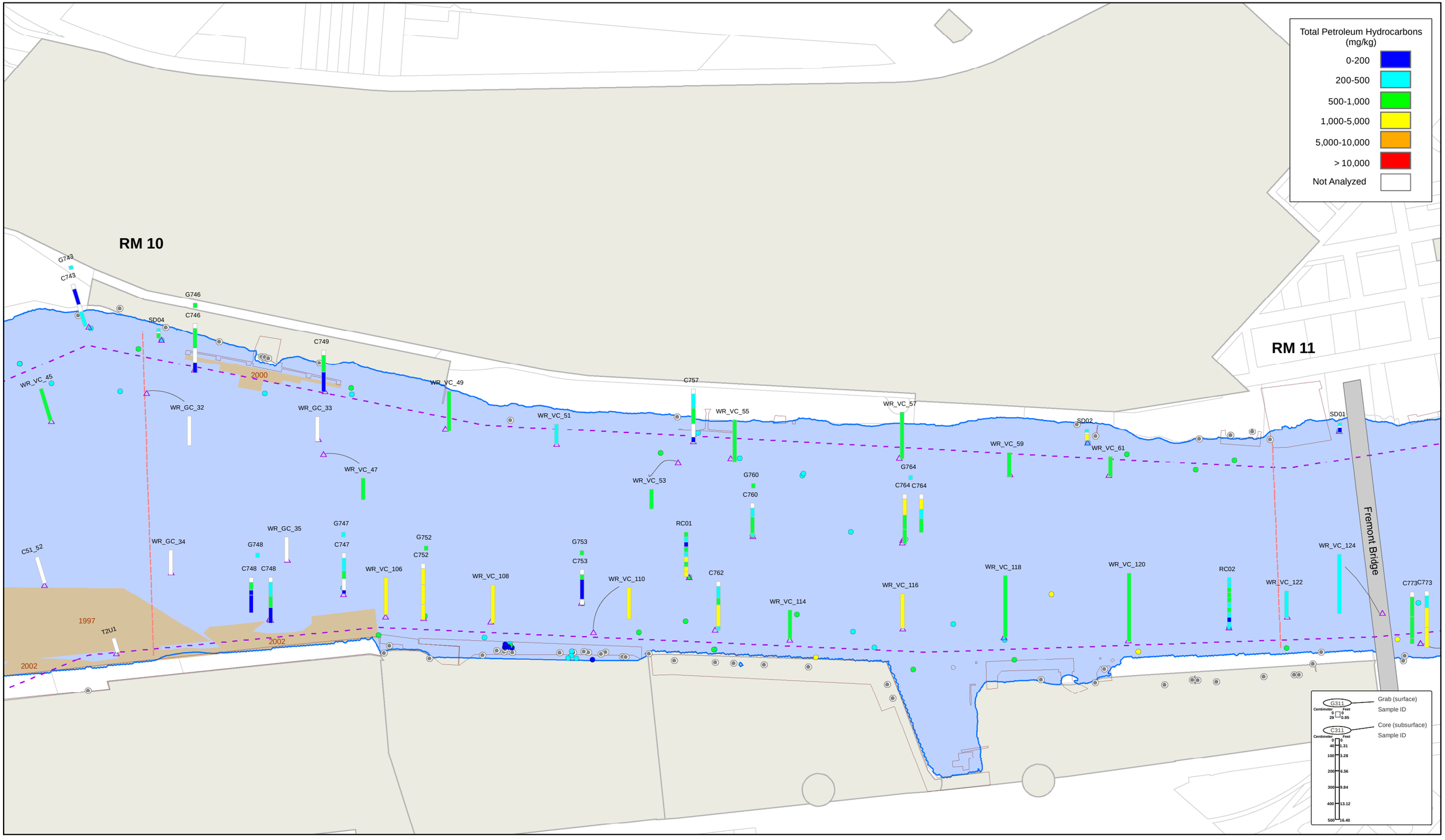
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-22_Cores_TPH noSGT_Main.mxd) - 3/13/2009 -- 3:50:08 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

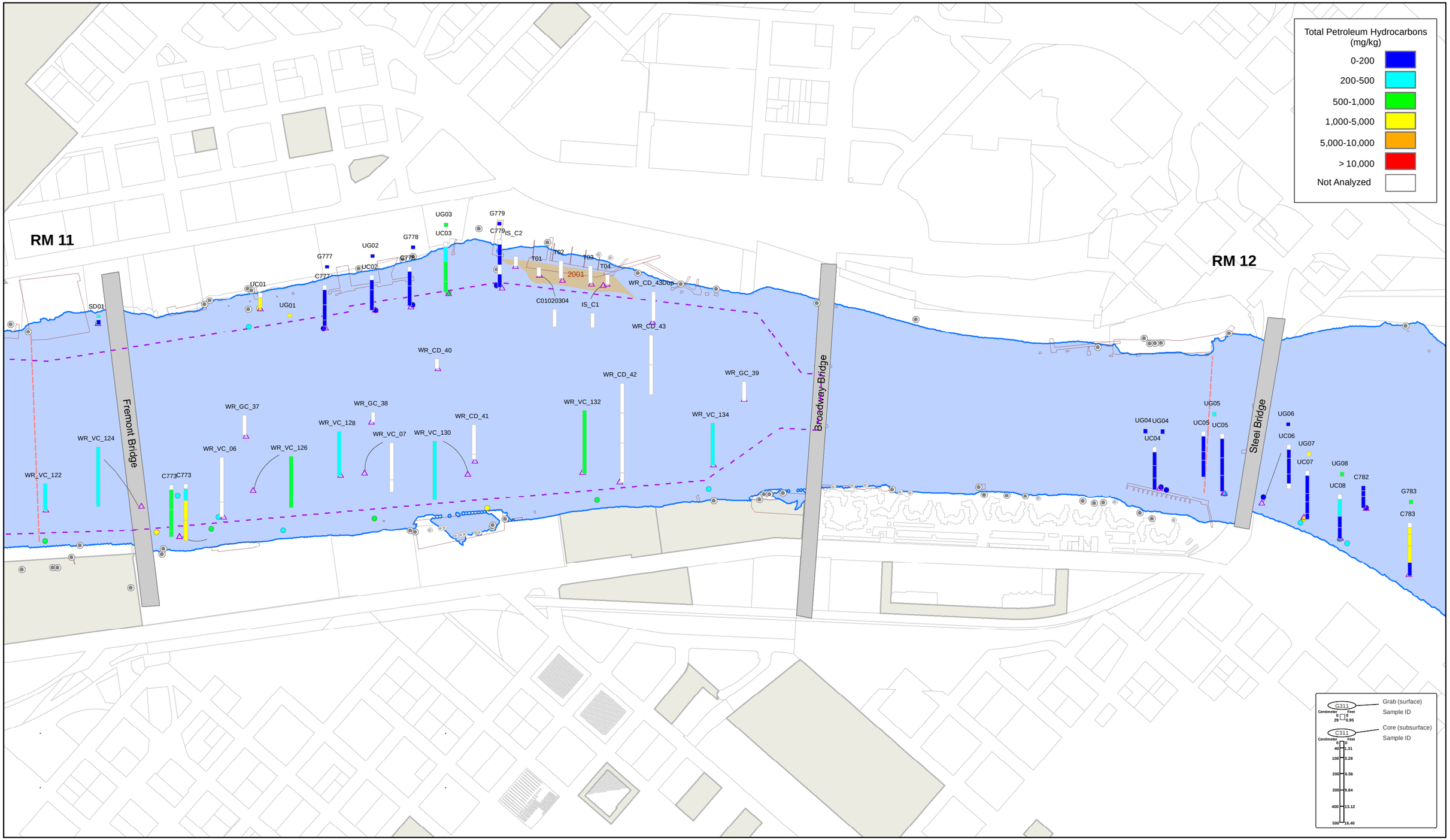
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

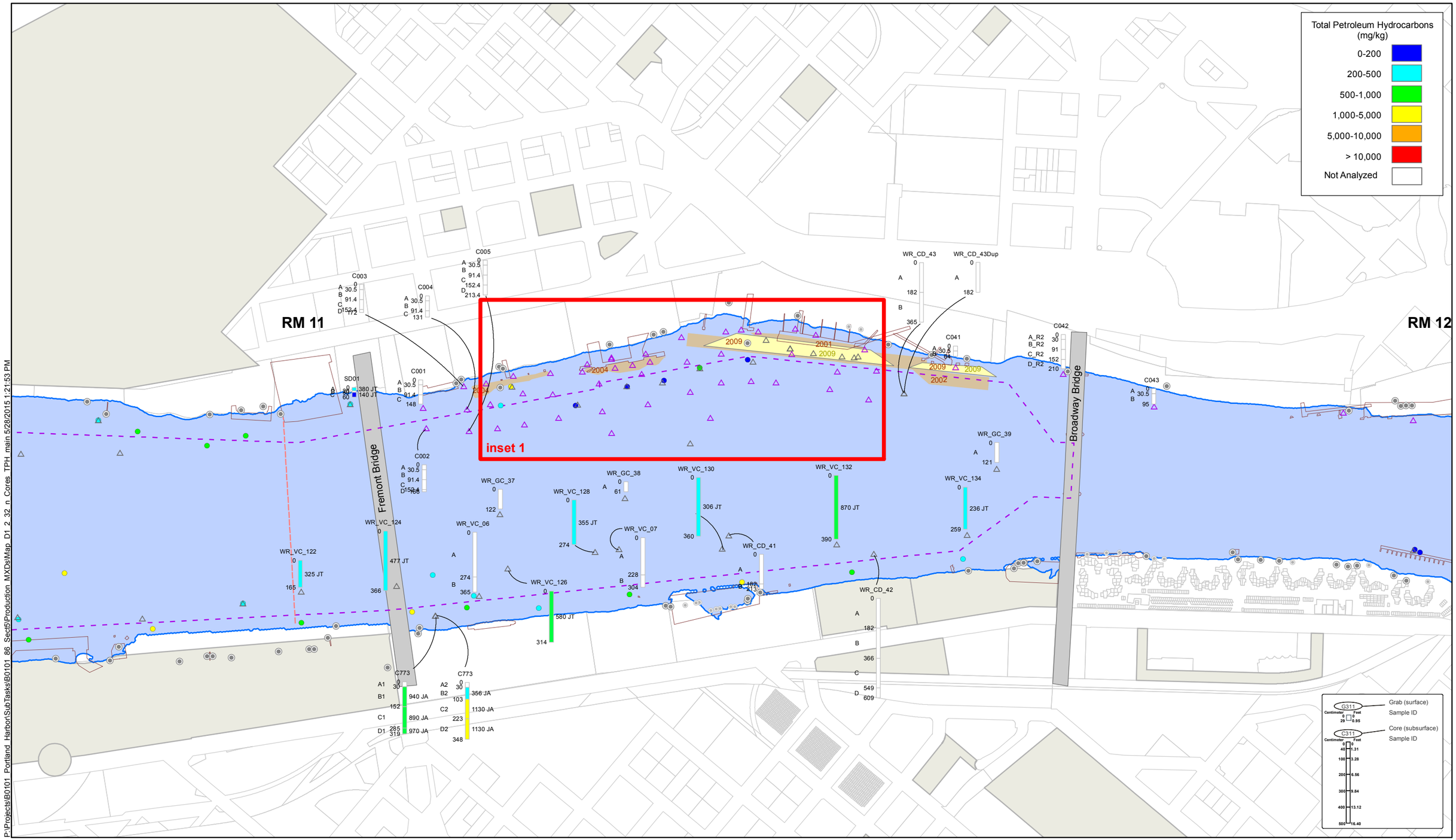
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

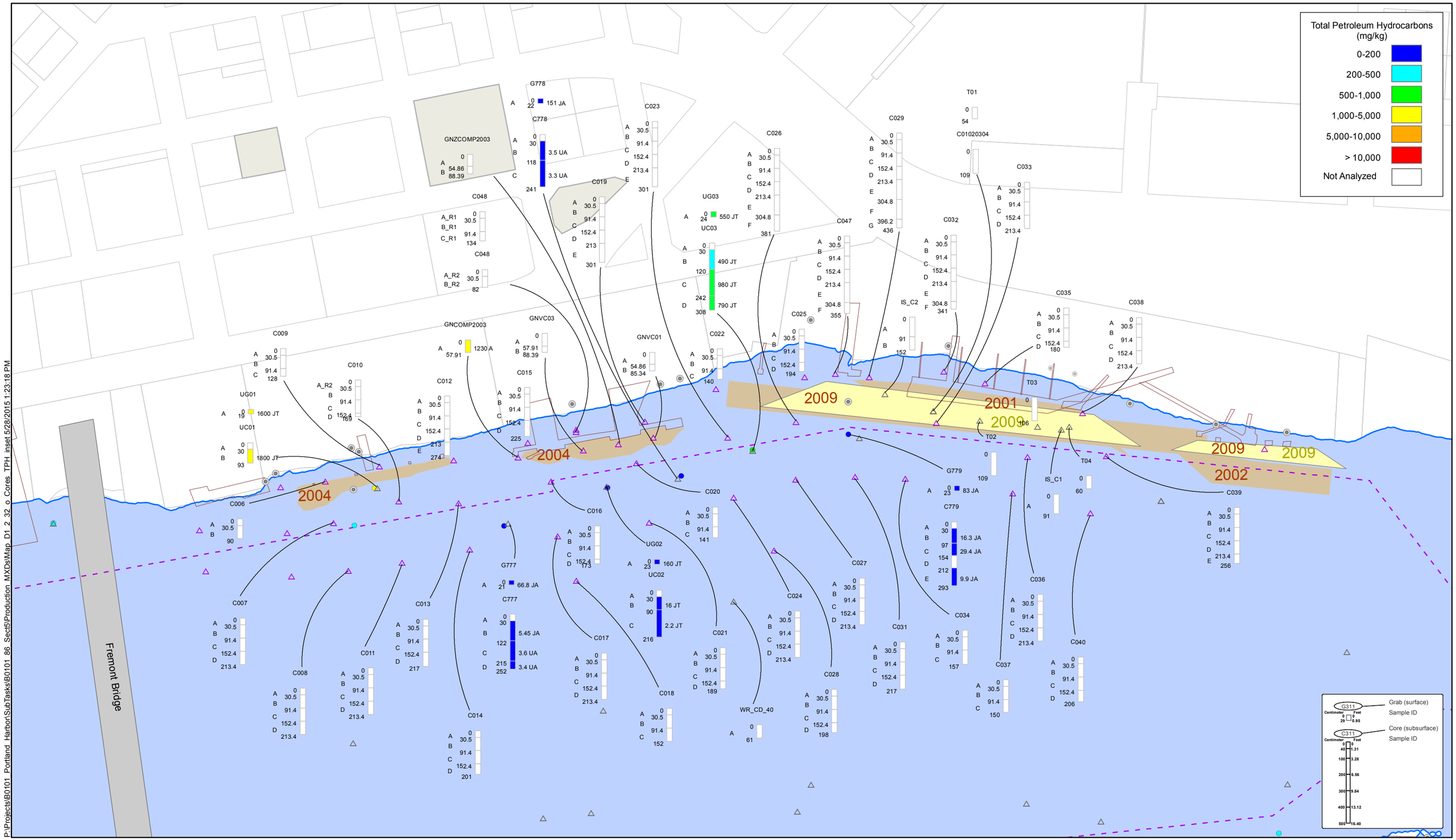
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 11.0 - 11.8



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

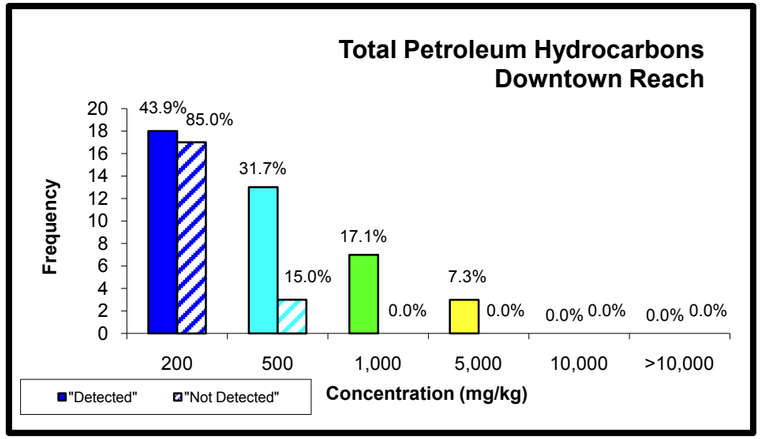
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-32o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



Total Petroleum Hydrocarbons (mg/kg)

- 0-200
- 200-500
- 500-1,000
- 1,000-5,000
- 5,000-10,000
- > 10,000
- Detected
- Not Detected

RM 12

RM 13

RM 14

RM 15

RM 16

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_84M_RI_App_H\Production_MXDs\Dot_Maps_Downtown_First_Revised_Draft\AppH_Map_H4_1_25_TPH.mxd - 4/22/2011 @ 7:52:02 AM

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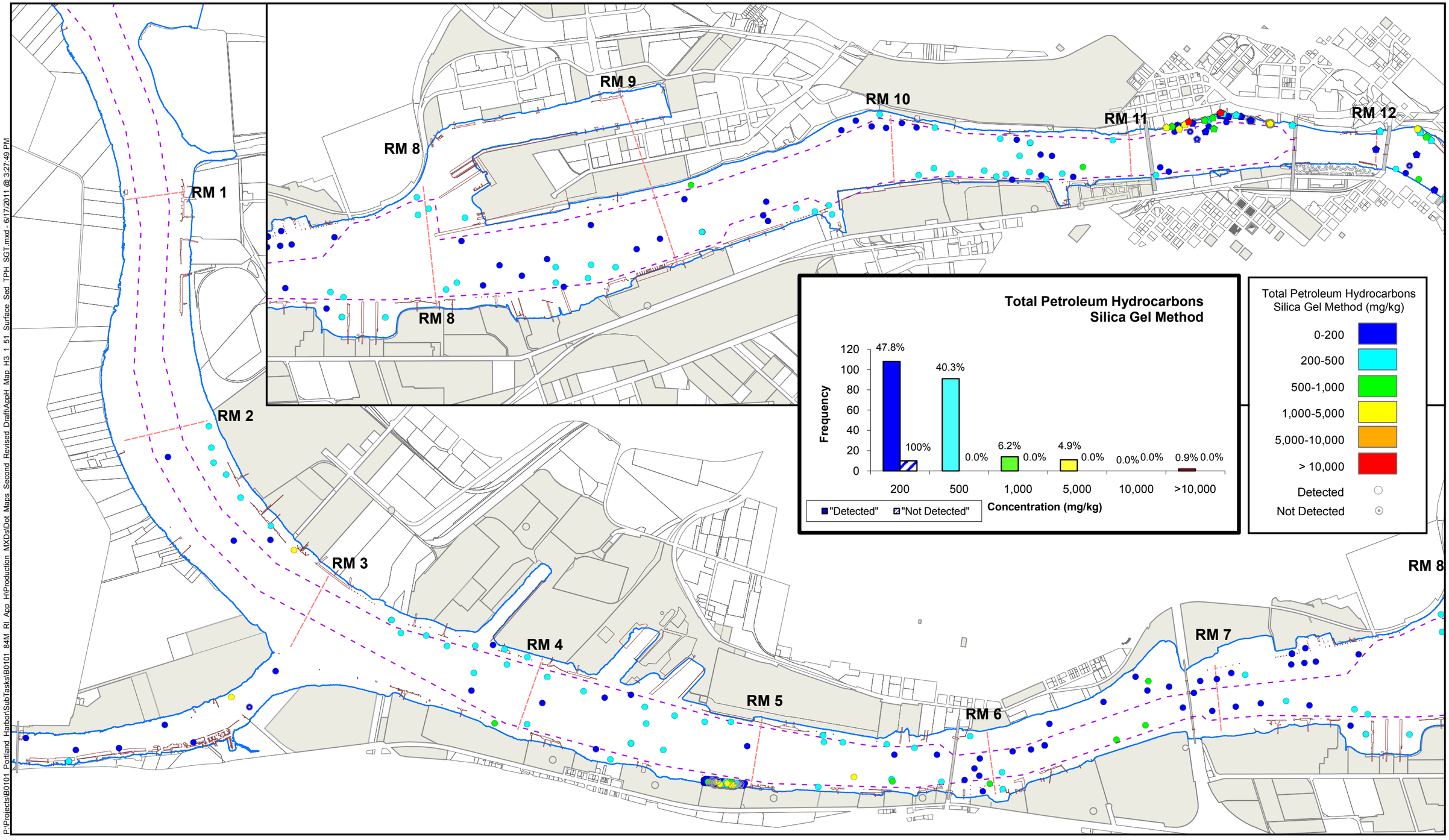
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-33
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Petroleum Hydrocarbons (mg/kg)
Downtown Reach



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

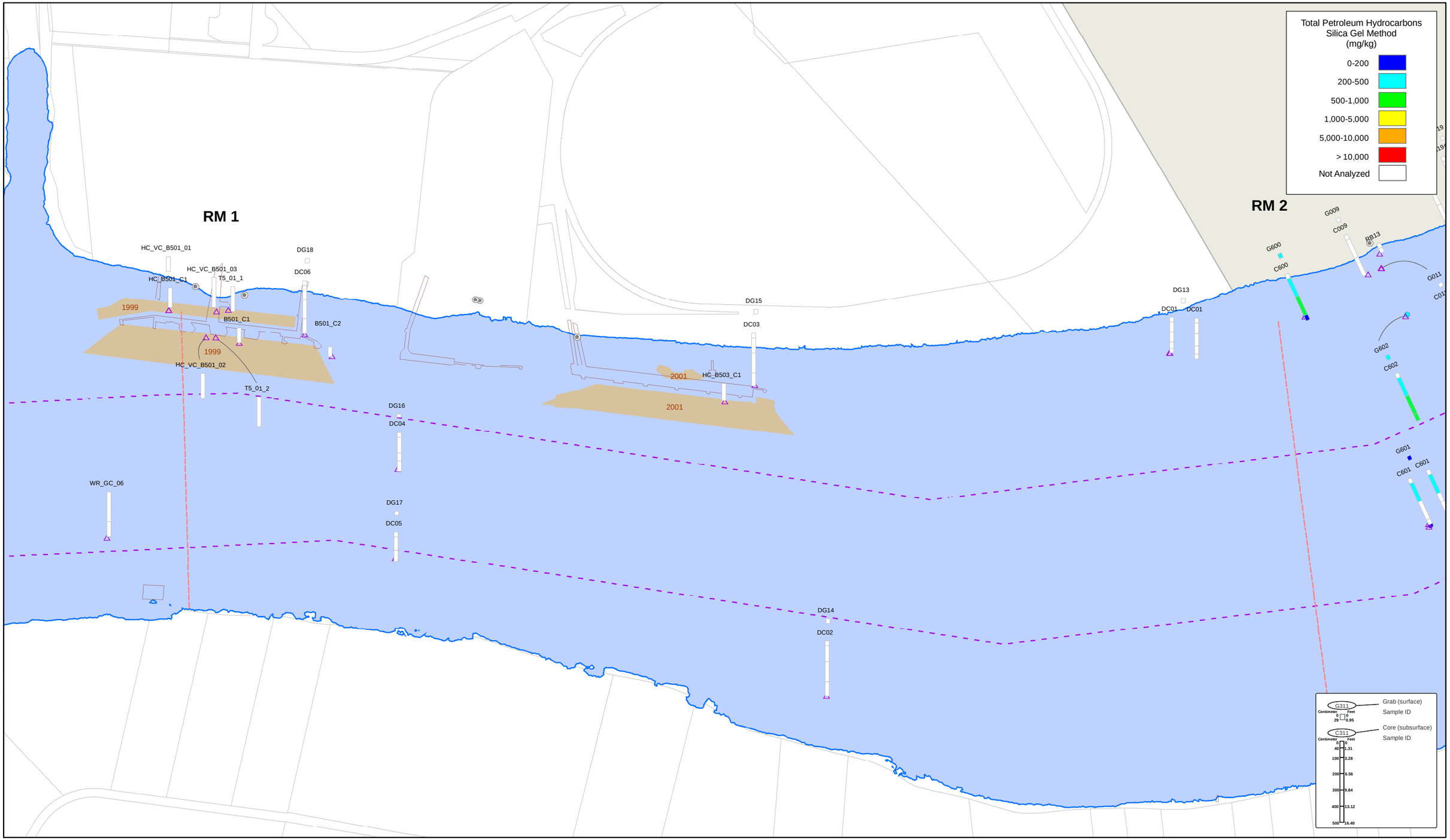
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-34
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

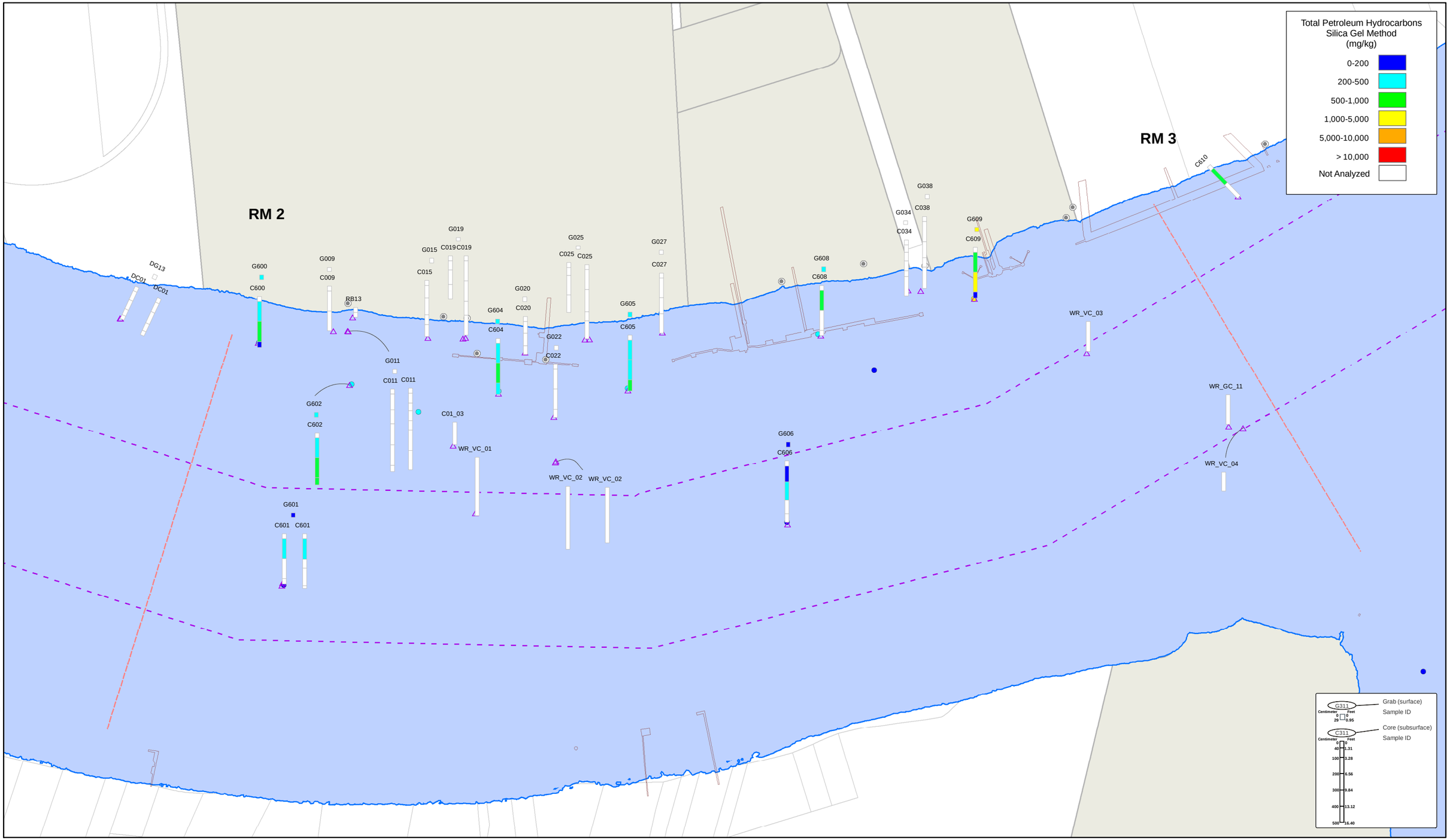
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

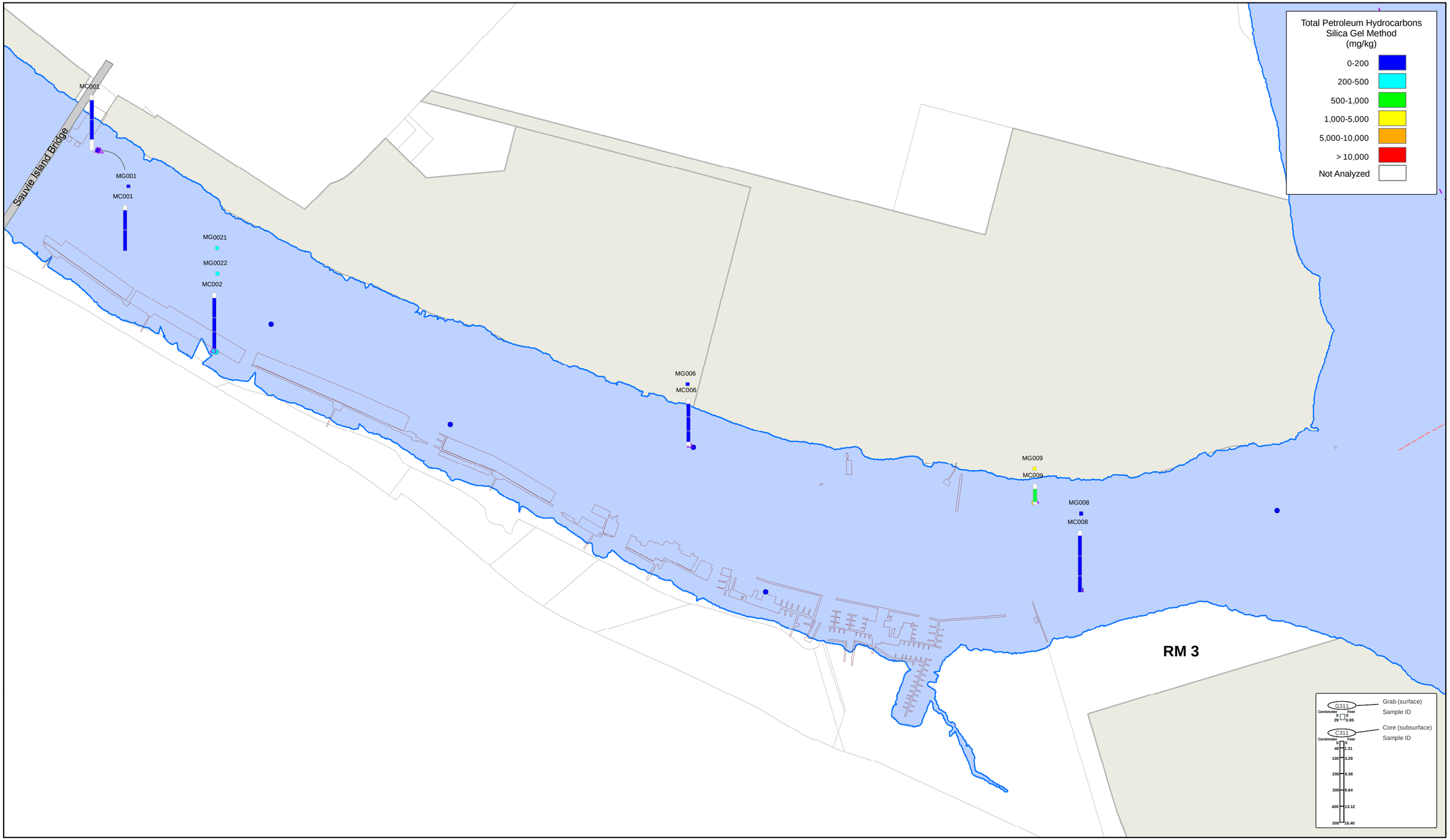
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

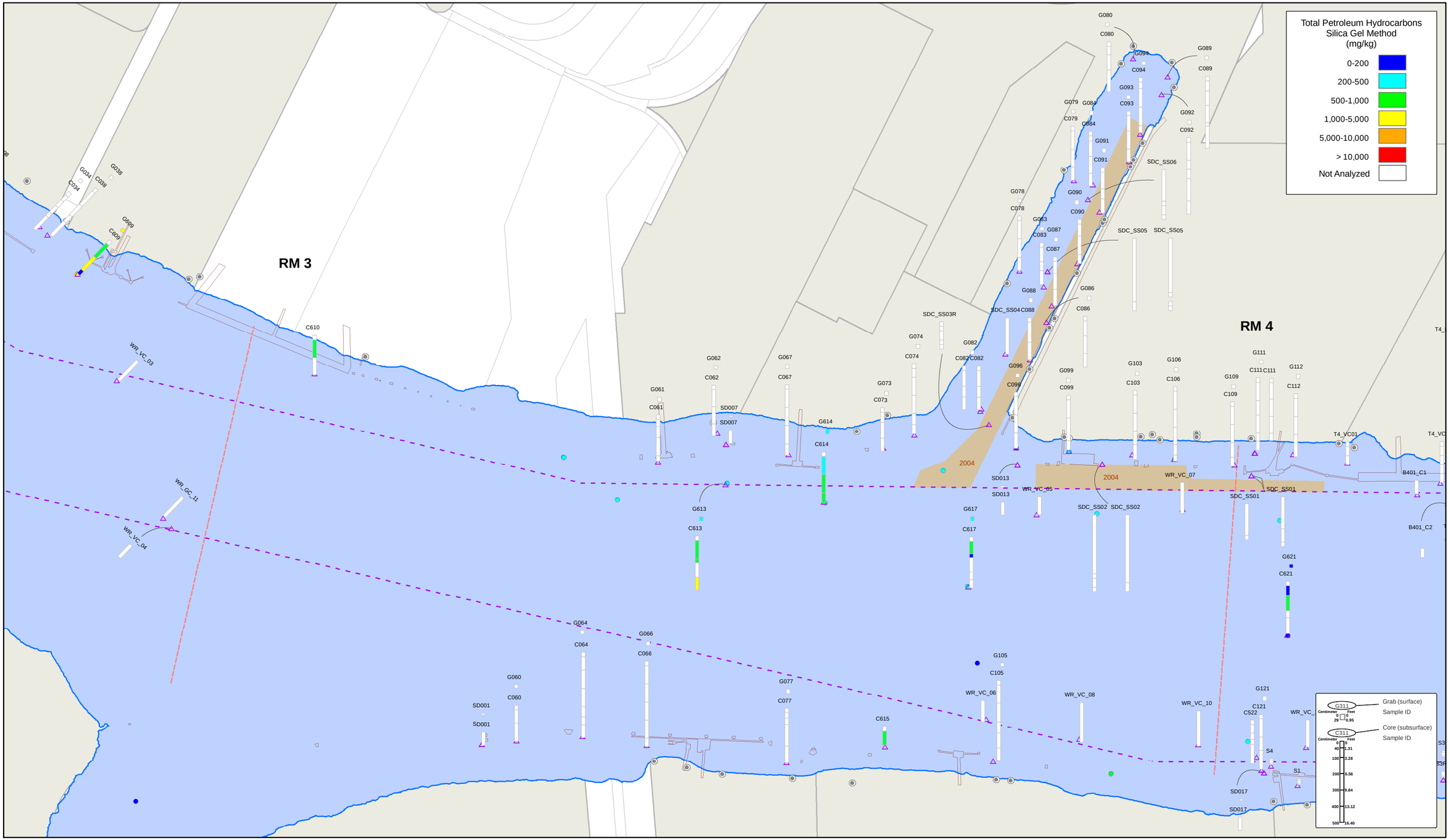
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 03 - Multnomah Channel

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

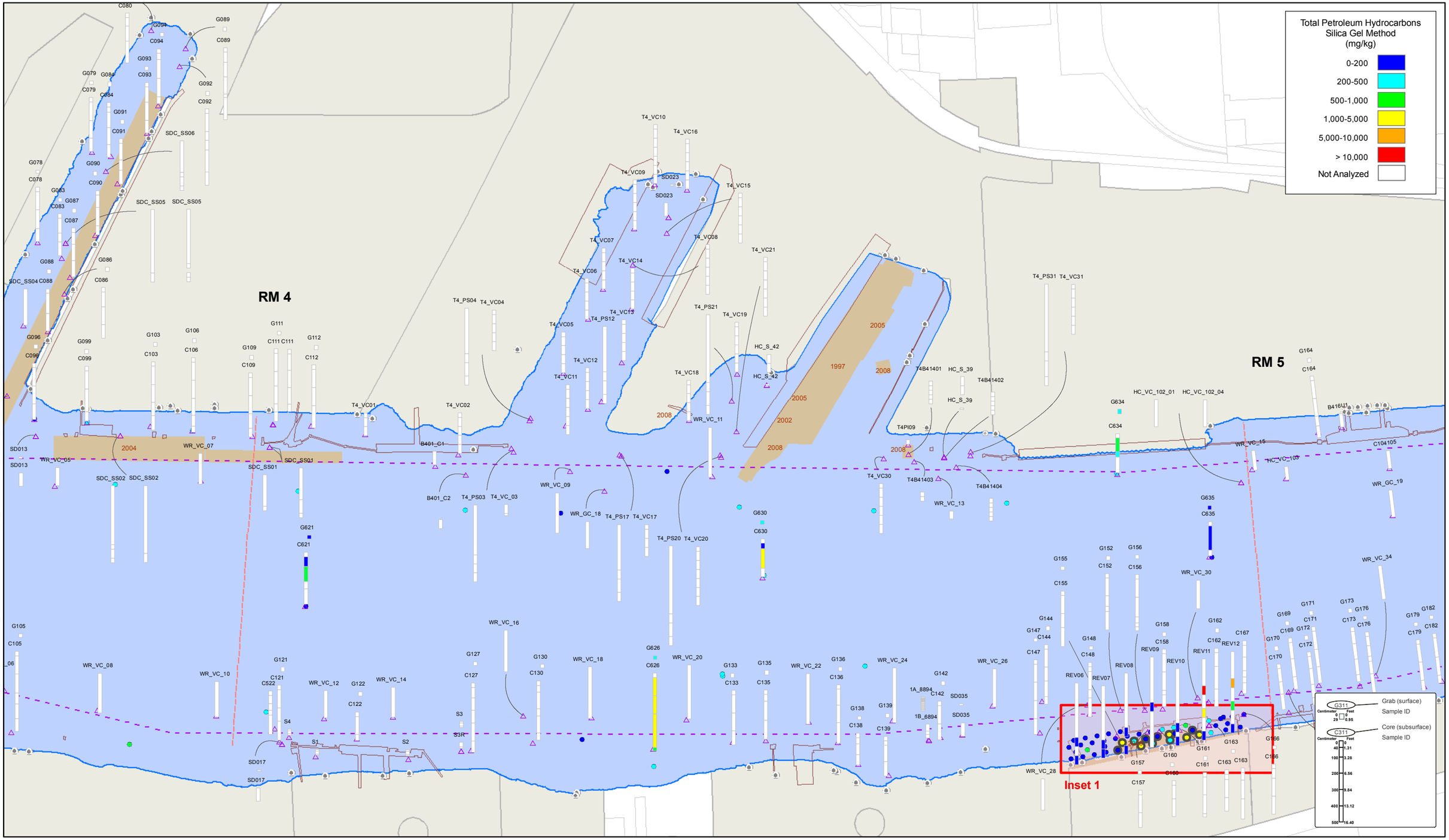
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 03 to 04

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

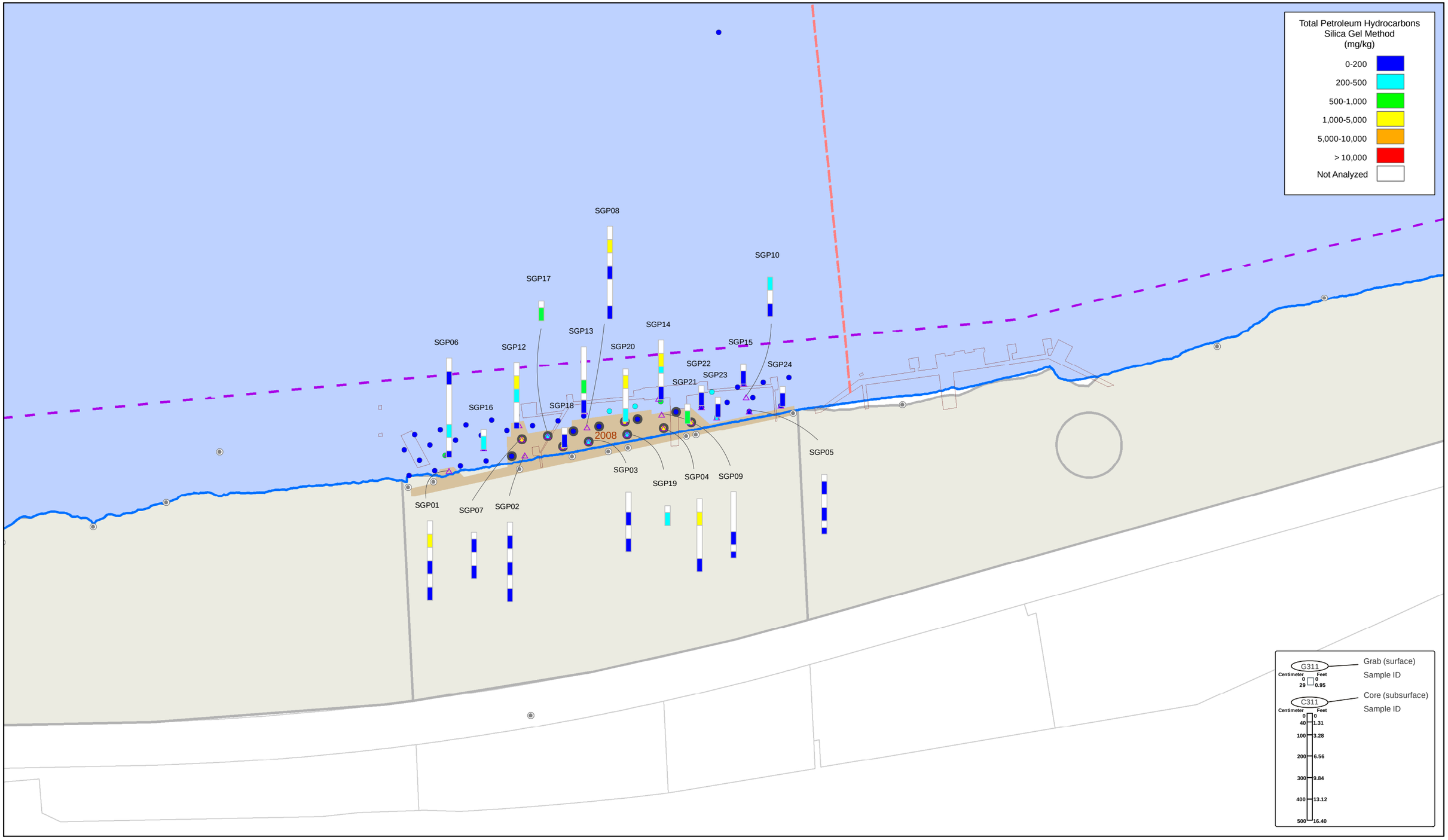
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 04 to 05 - Slips



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Insets.mxd)
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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 130 260 520 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

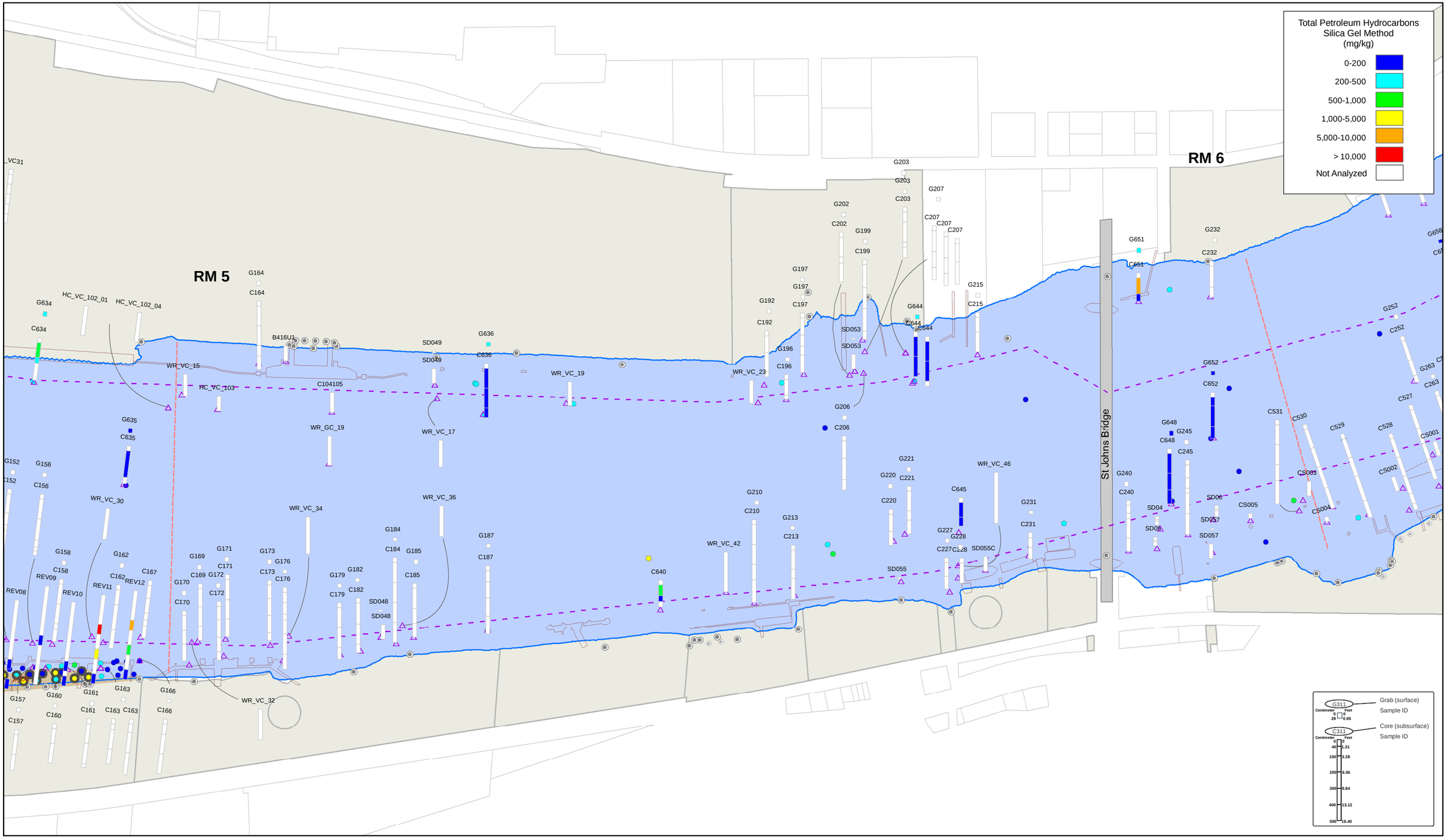
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

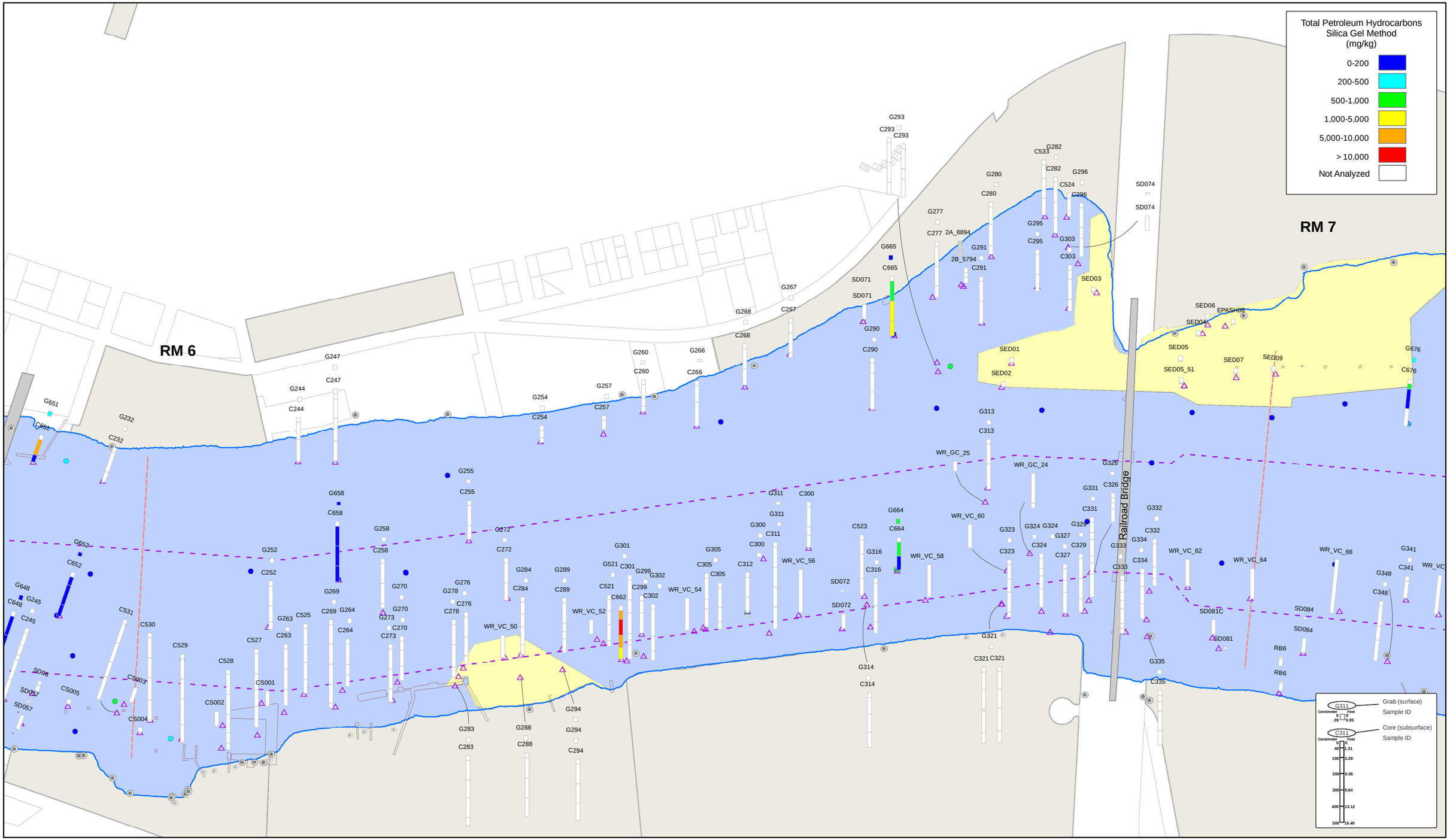
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 05 to 06



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

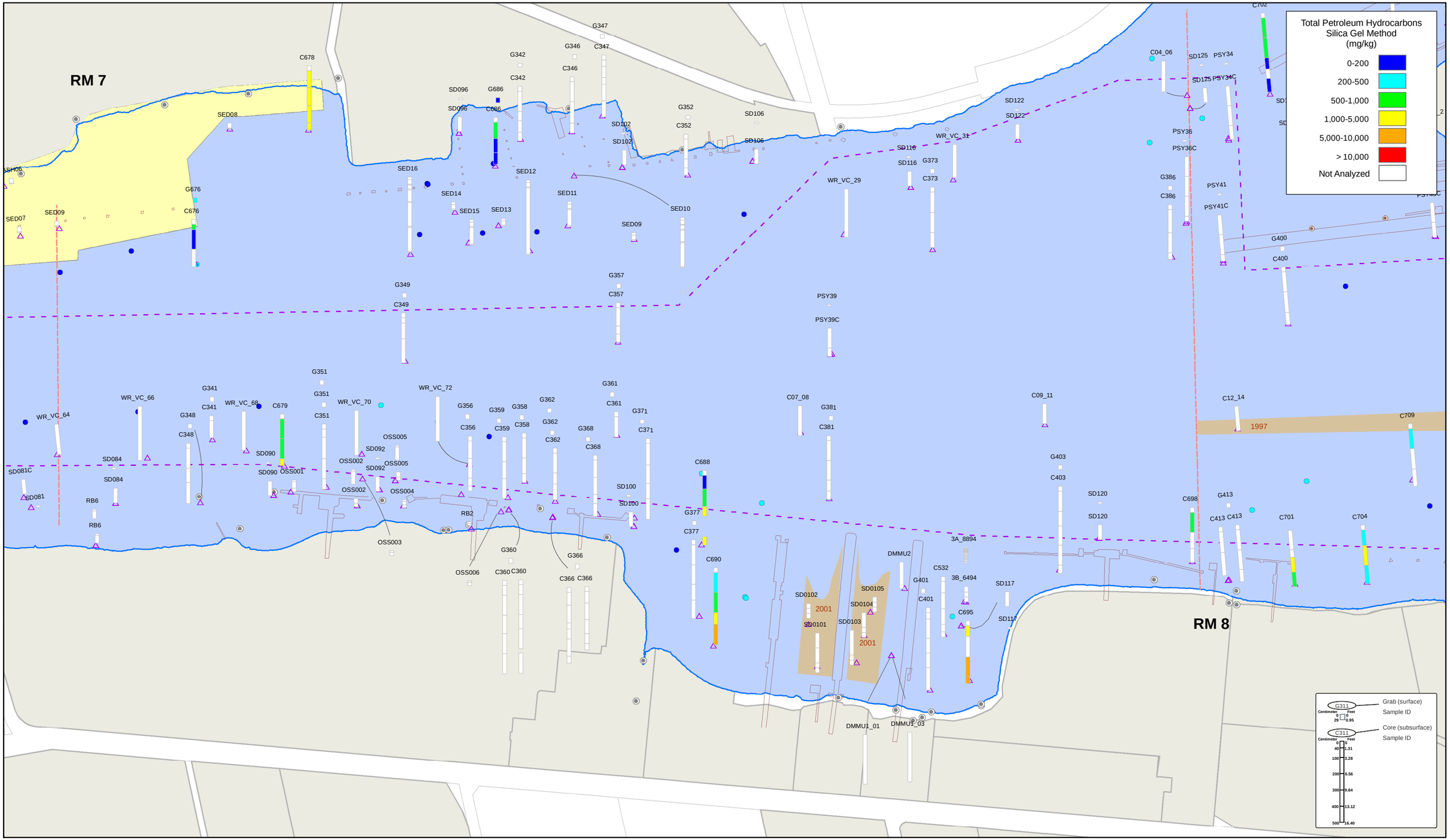
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

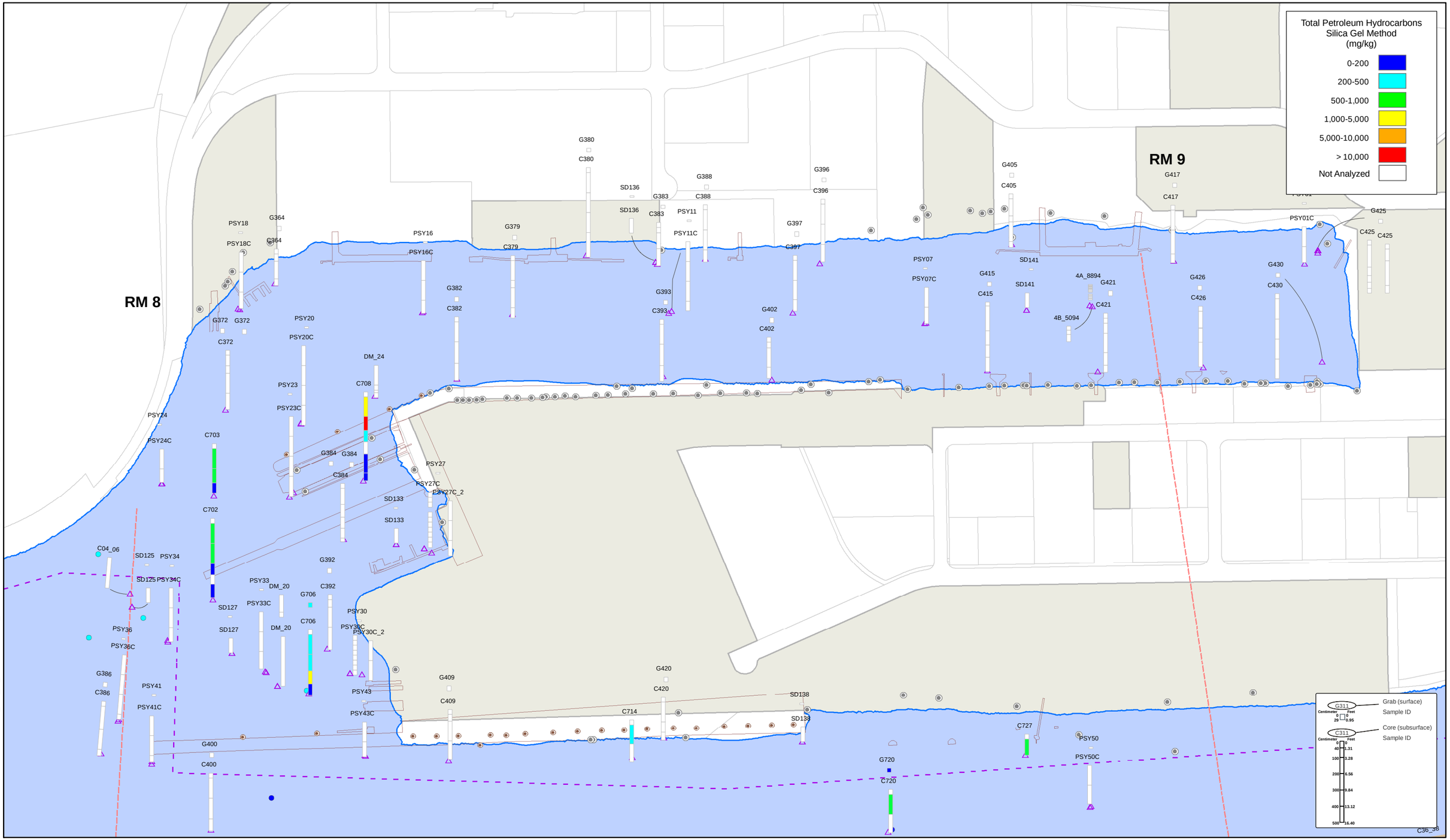
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

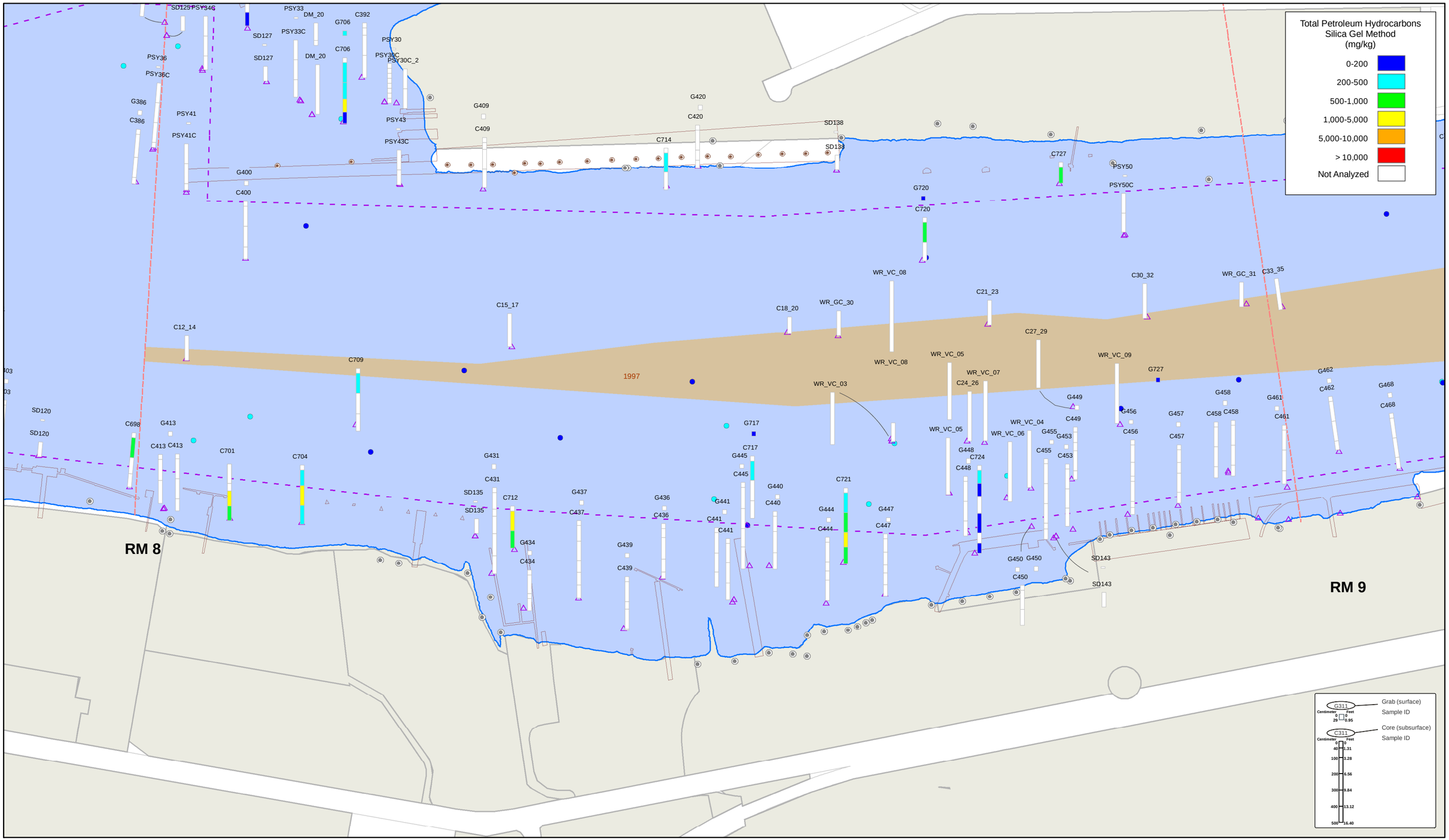
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

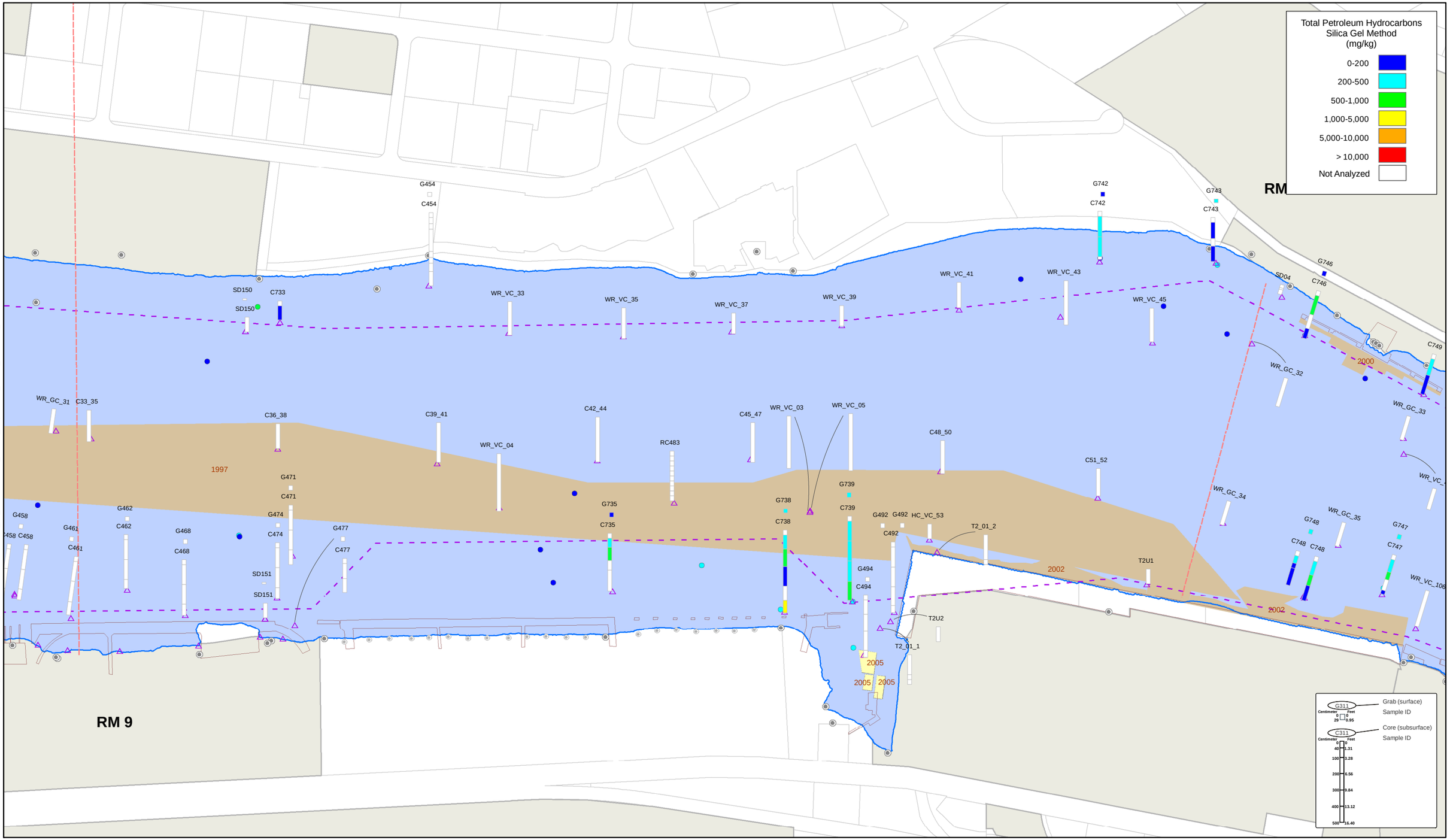
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 08 to 09 - Swan Is. West



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

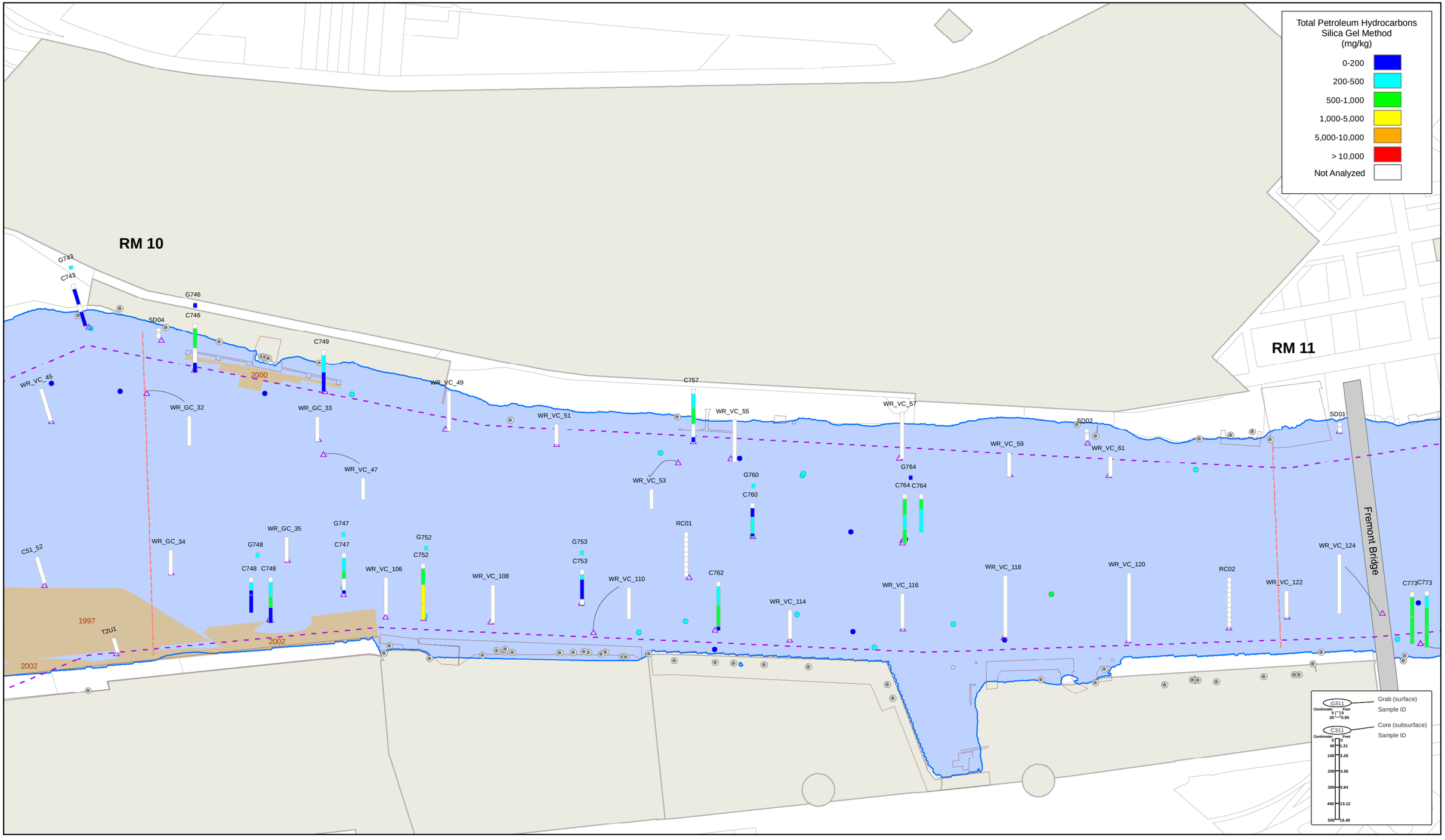
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

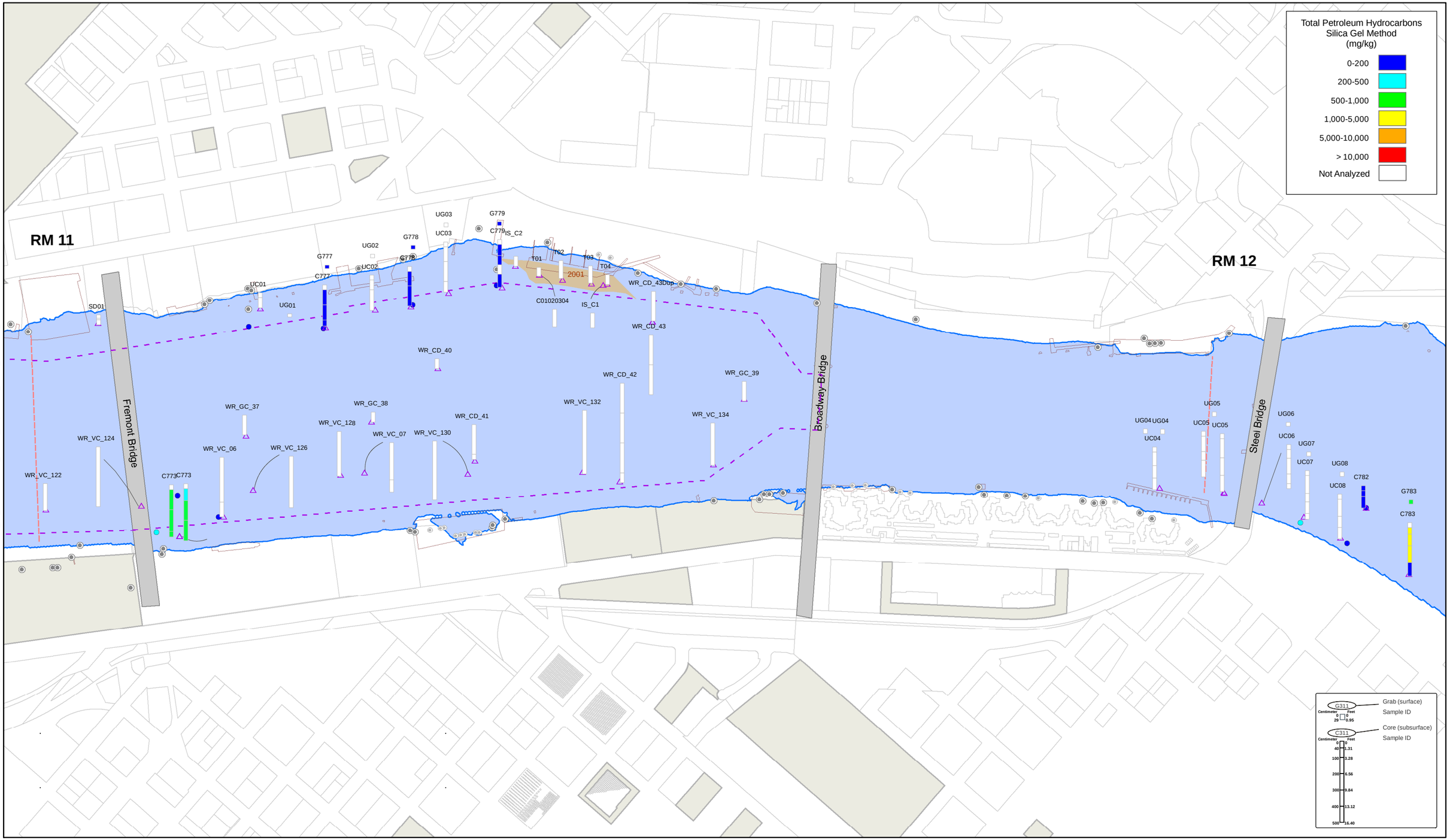
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 10 to 11

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-24_Cores_TPH SGT_Main.mxd) - 3/11/2009 -- 12:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

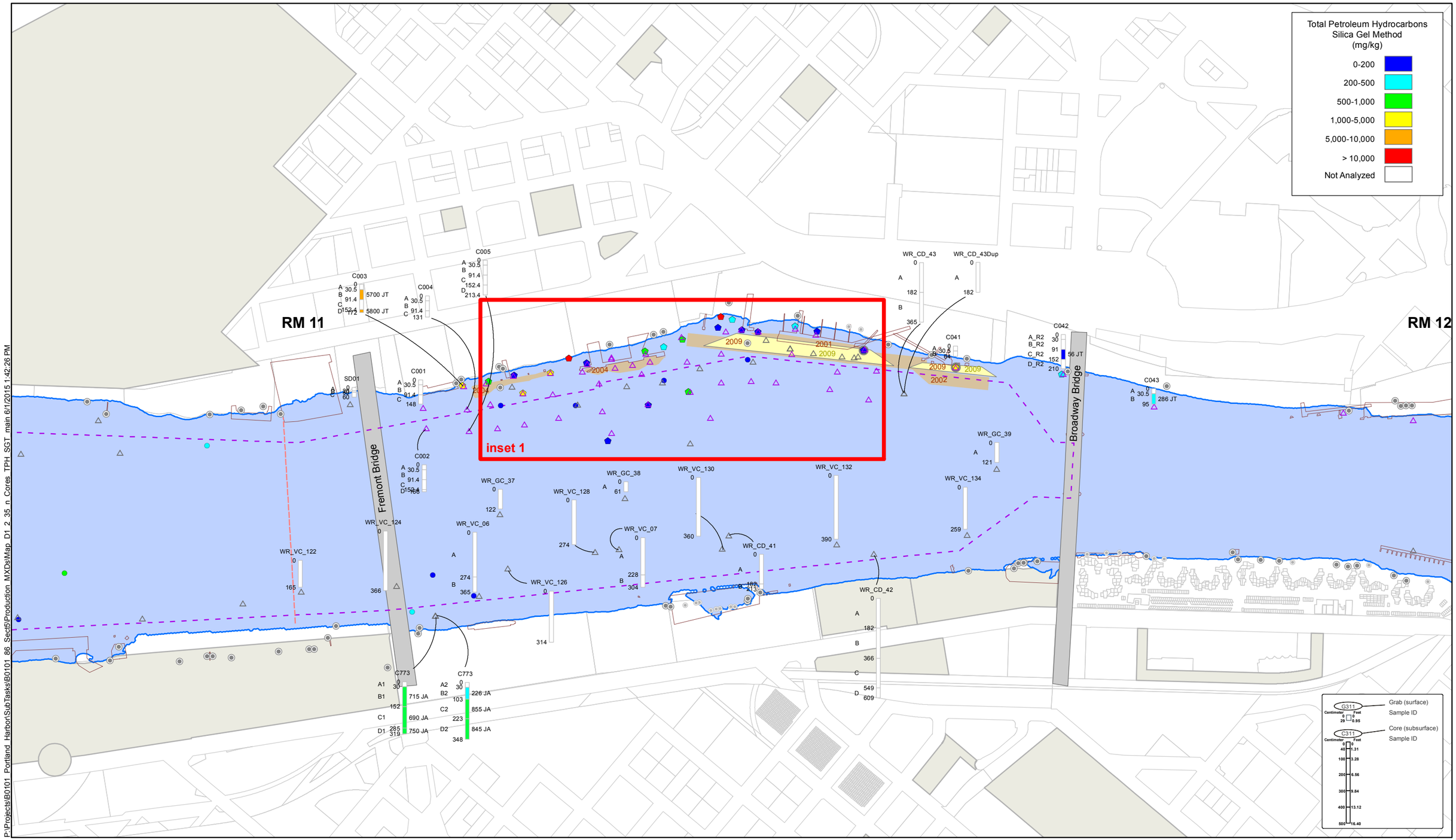
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 11 to 12



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

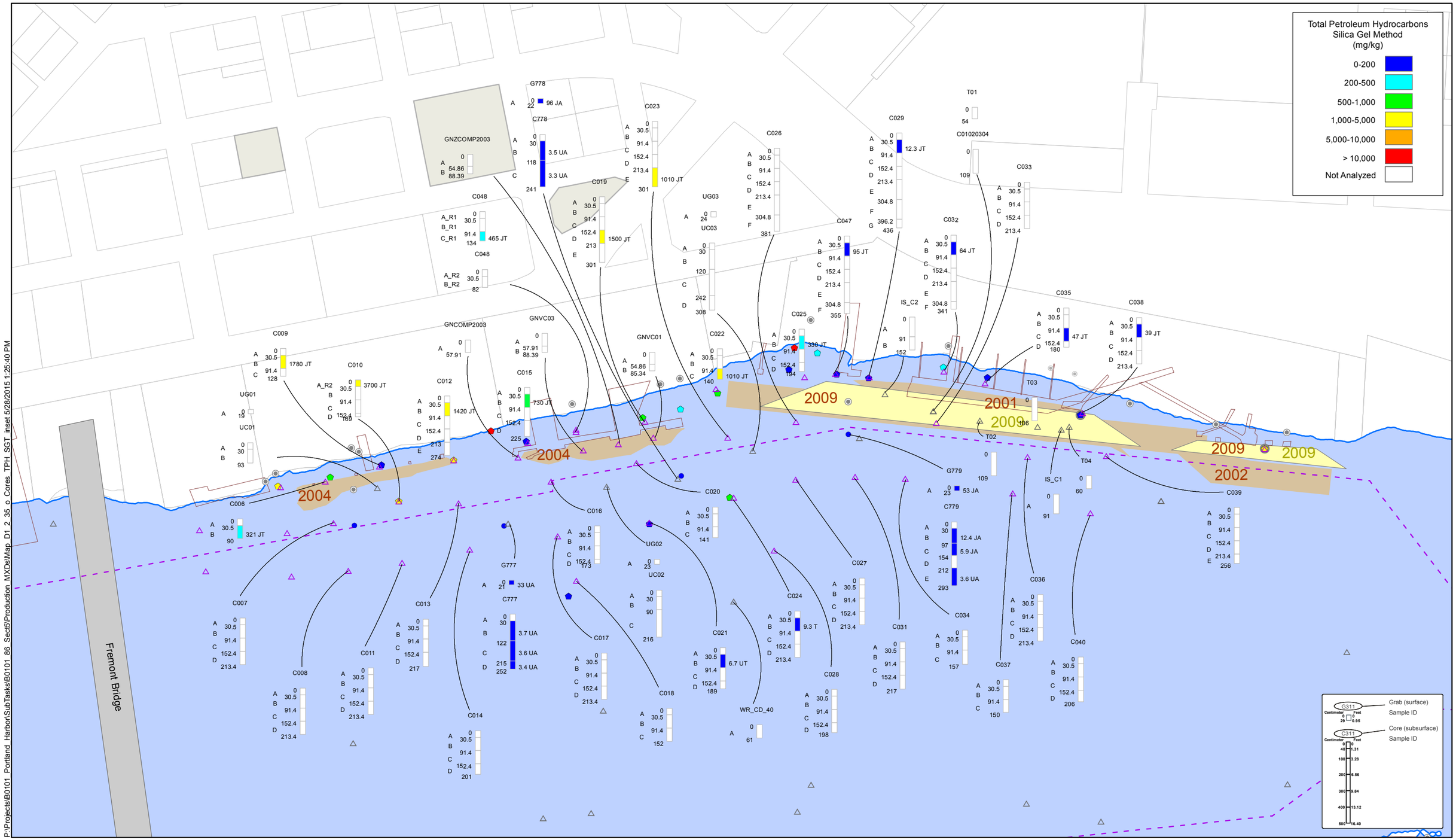
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 11.0 - 11.8



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-35o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)

River Mile 11.0 - 11.8 - Inset 1

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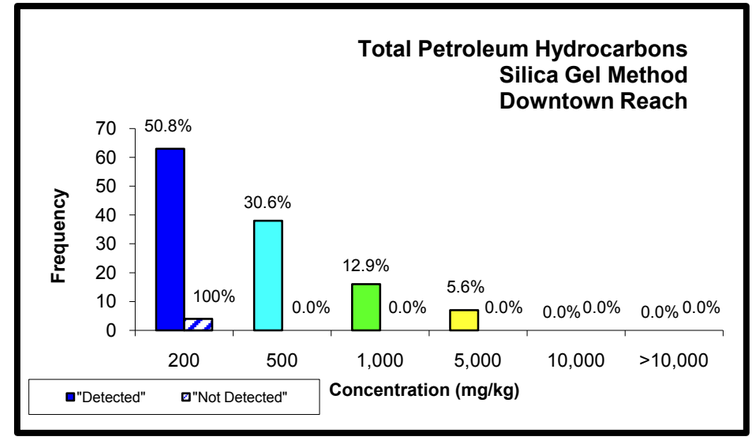

Total Petroleum Hydrocarbons
Silica Gel Method (mg/kg)

- 0-200
- 200-500
- 500-1,000
- 1,000-5,000
- 5,000-10,000
- > 10,000
- Detected
- Not Detected

RM 12

RM 13

RM 14

RM 15

RM 16

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_84M_RI_App_H\Production_MXDs\Dot_Maps_Downtown_First_Revised_Draft\AppH_Map_H4_1_26_TPH_SGT.mxd - 4/22/2011 @ 8:18:39 AM

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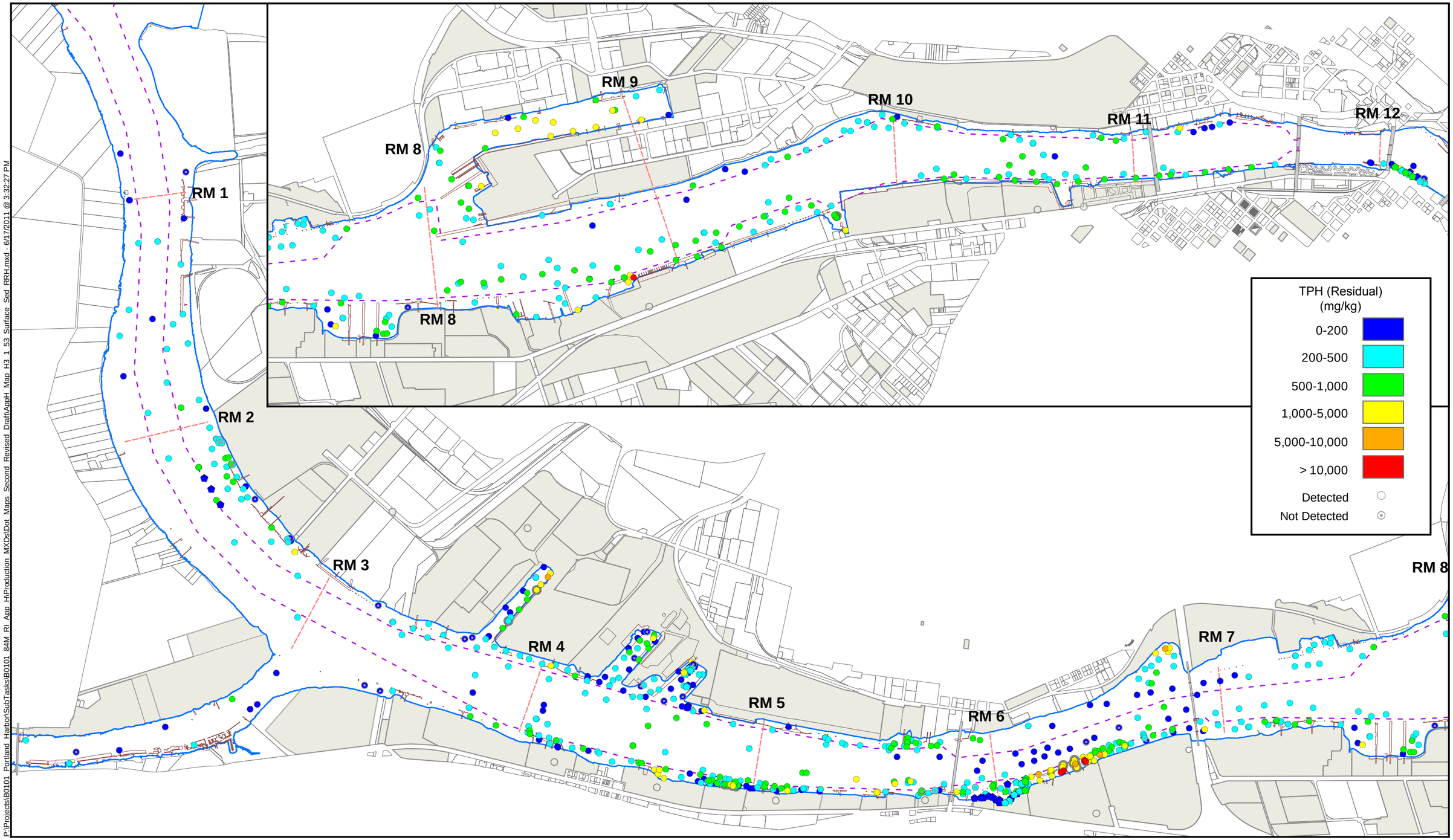
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-36
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Petroleum Hydrocarbons - Silica Gel Method (mg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

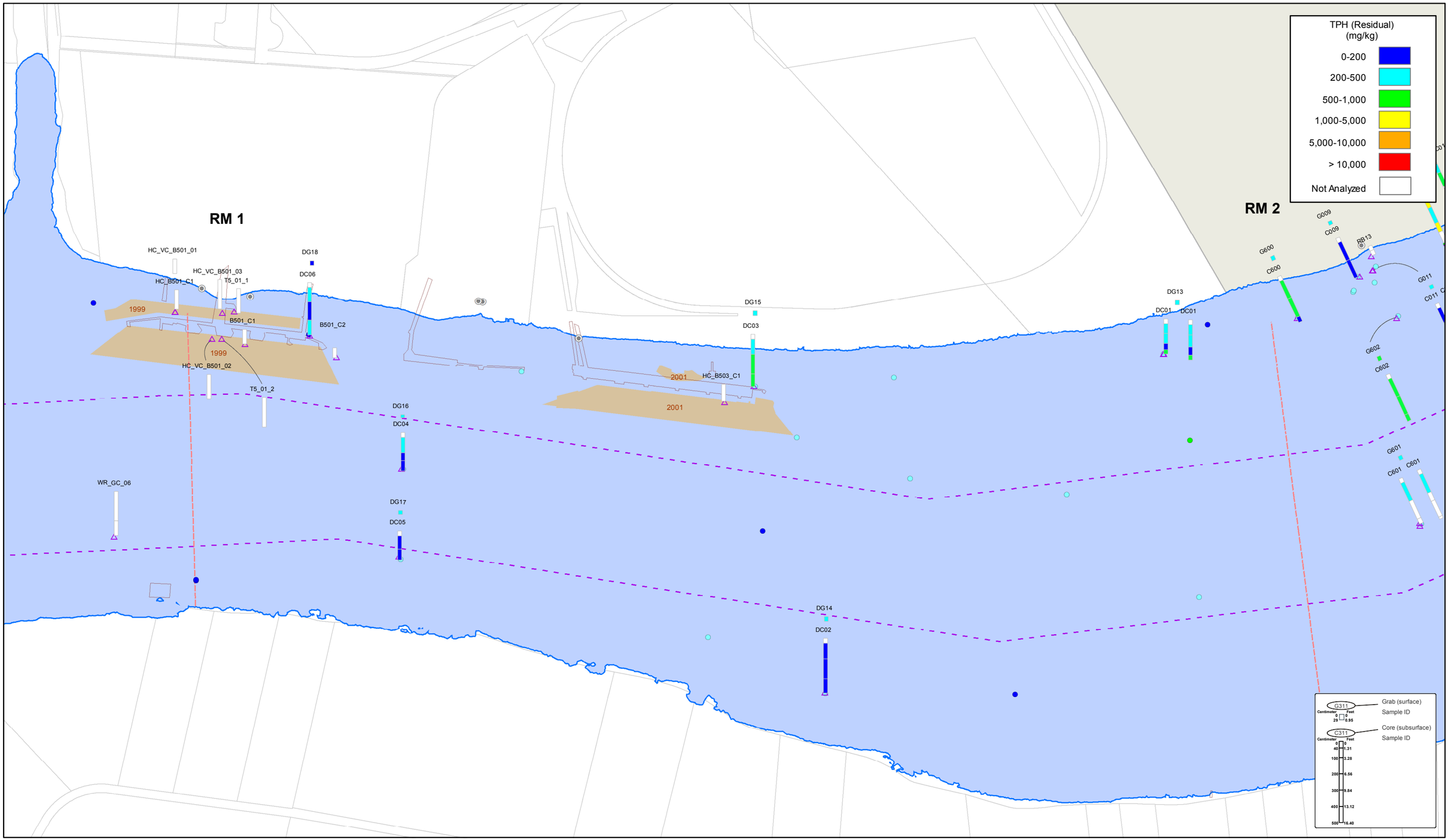
N

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-37
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Residual) (mg/kg)



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-26_Cores_RRH NoSGT_Main.mxd) - 3/10/2009 -- 1:44:11 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

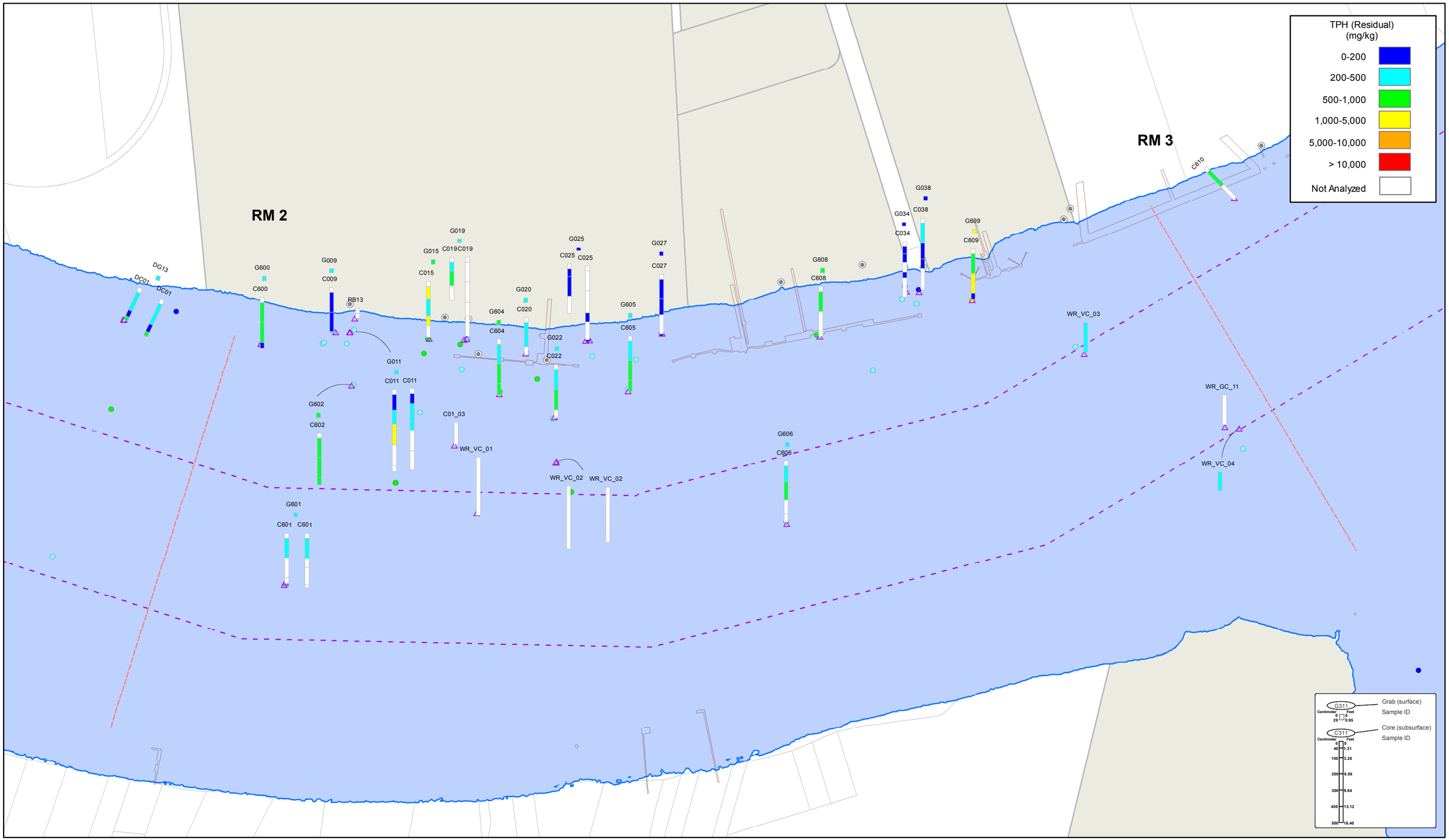
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 01 to 02



Map Document: (O:\SubTasks\B0101_7TK_RI_Sect5\Production_MXDs\CoreRevisions\2009_03_03\2009-03-10_Sec5.1_Map D.1-26_Cores_RRH NoSGT_Main.mxd) - 3/10/2009 -- 1:44:11 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

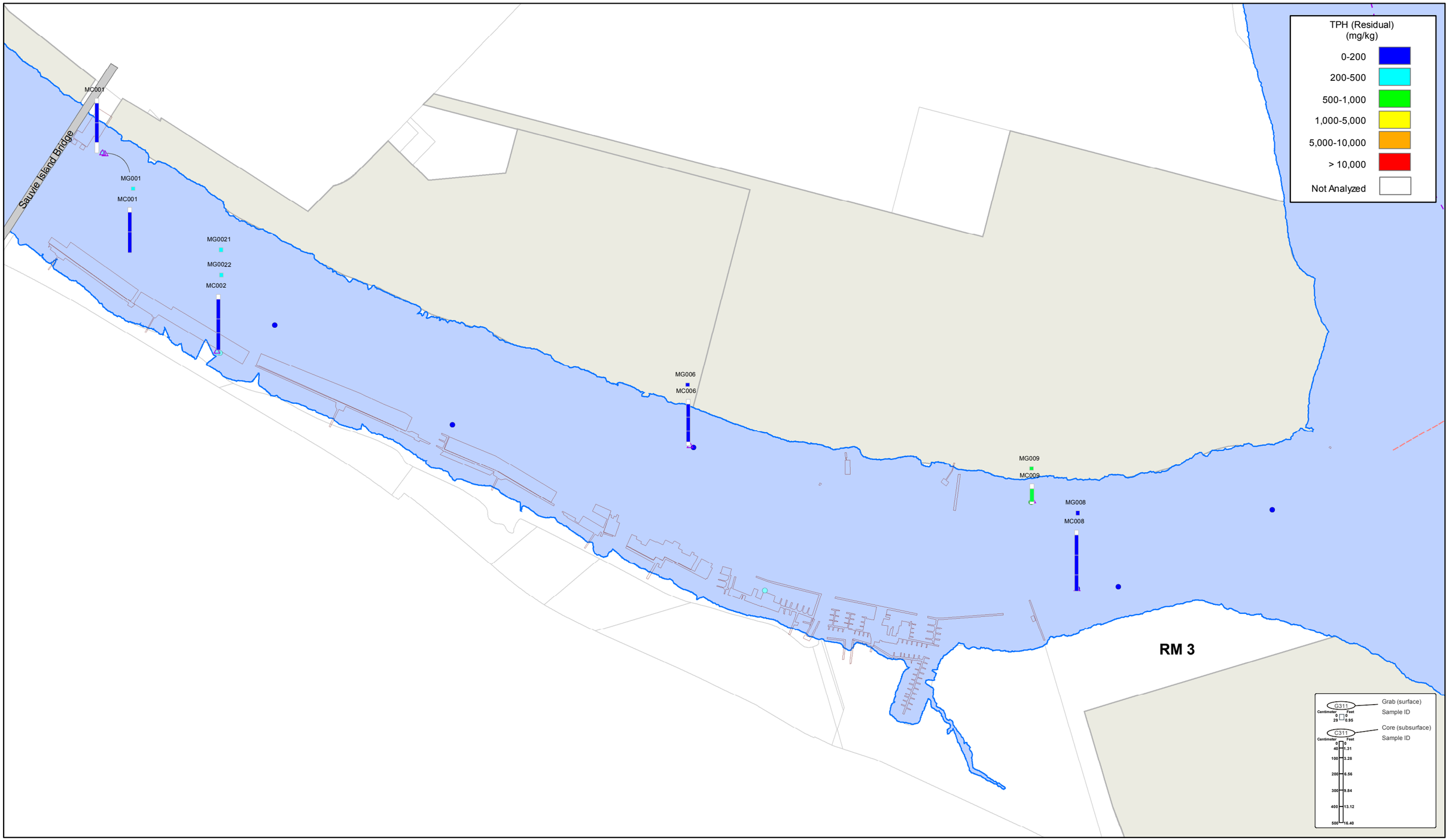
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions\2009_03_03\2009-03-10_Sec5.1_Map D.1-26_Cores_RRH NoSGT_Main.mxd) - 3/10/2009 -- 1:44:11 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

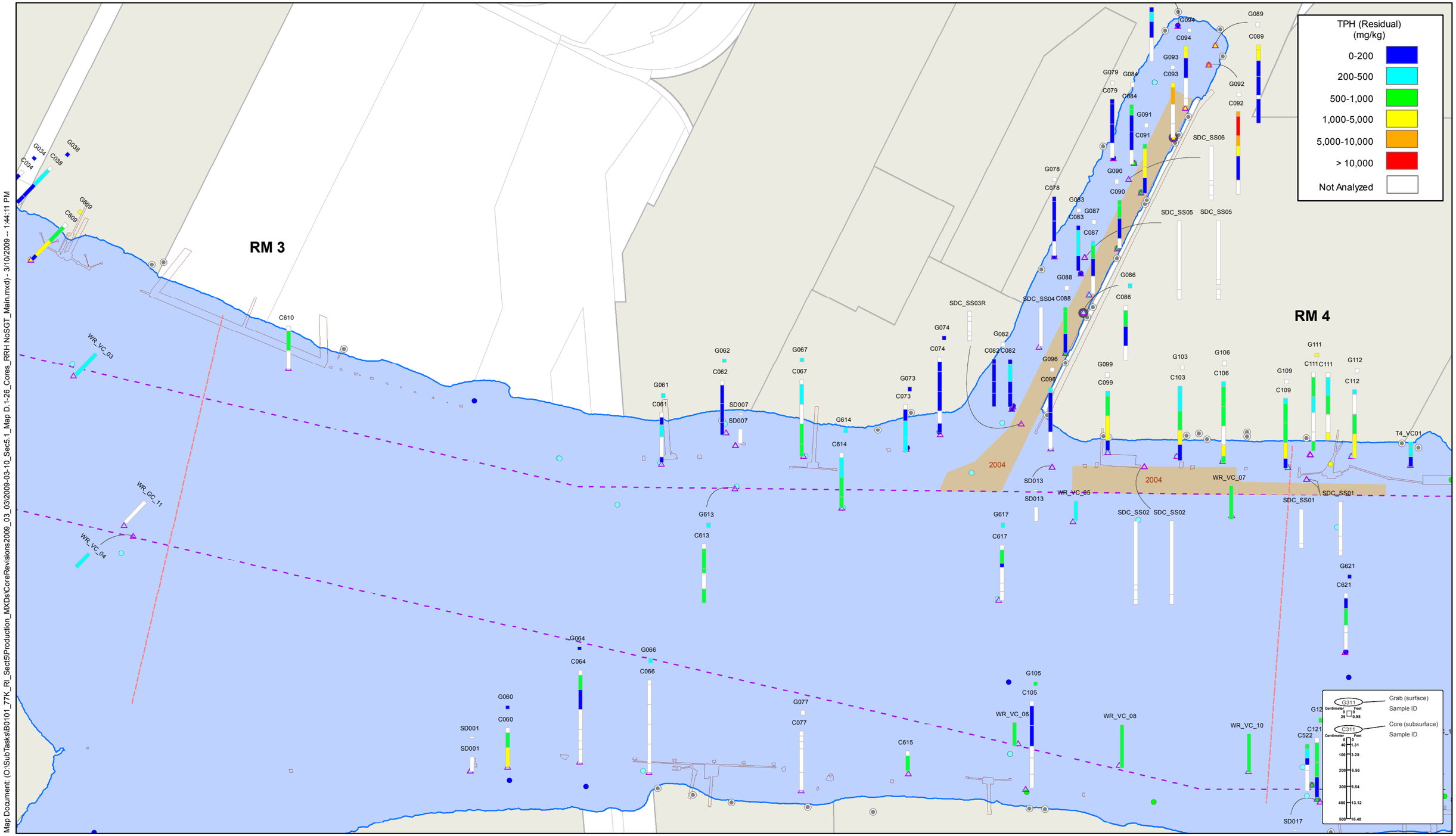
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

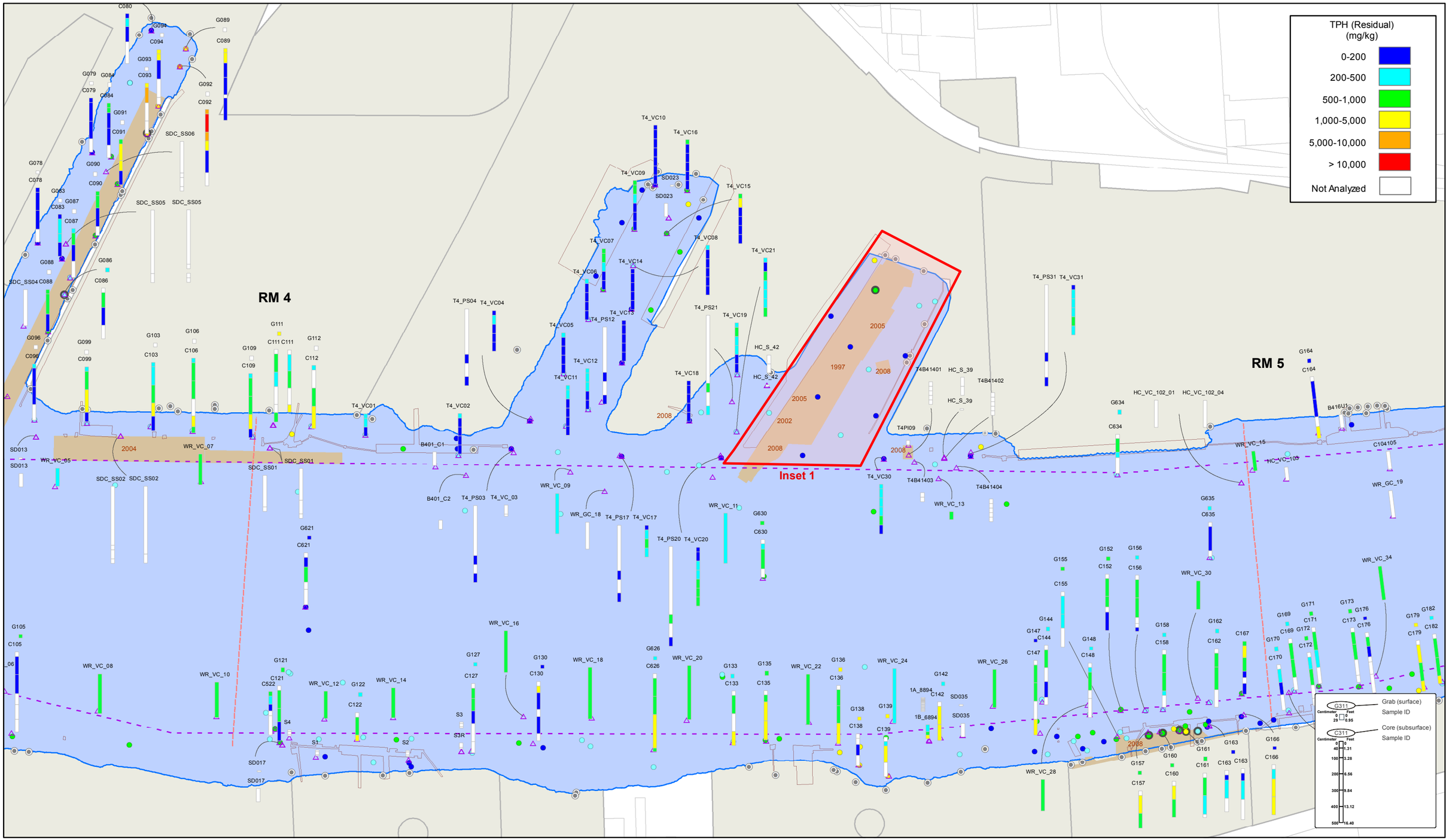
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

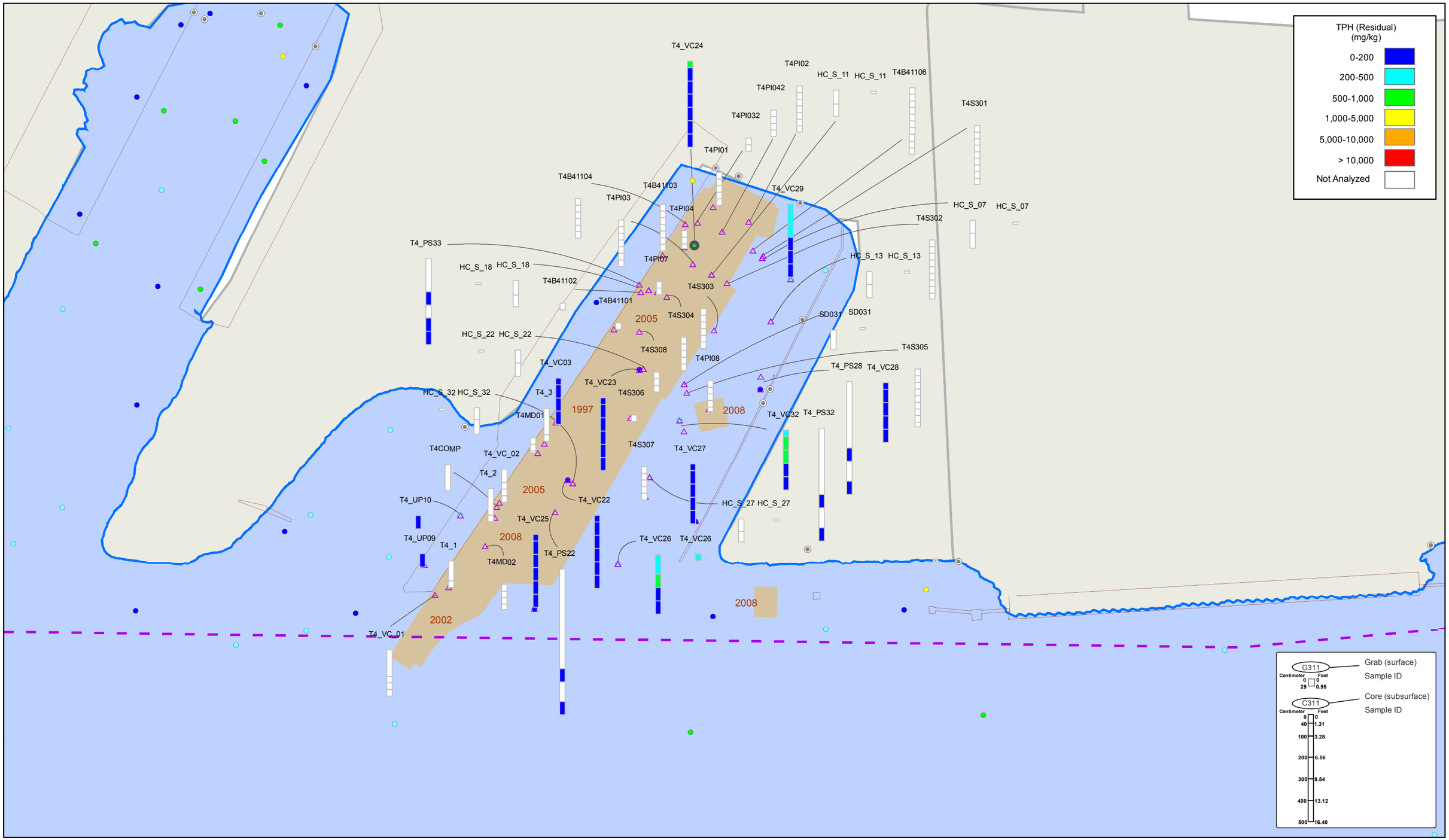
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 04 to 05 - Slips



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-26_Cores_RRH NoSGT_Insets.mxd) - 3/13/2009 -- 3:51:44 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

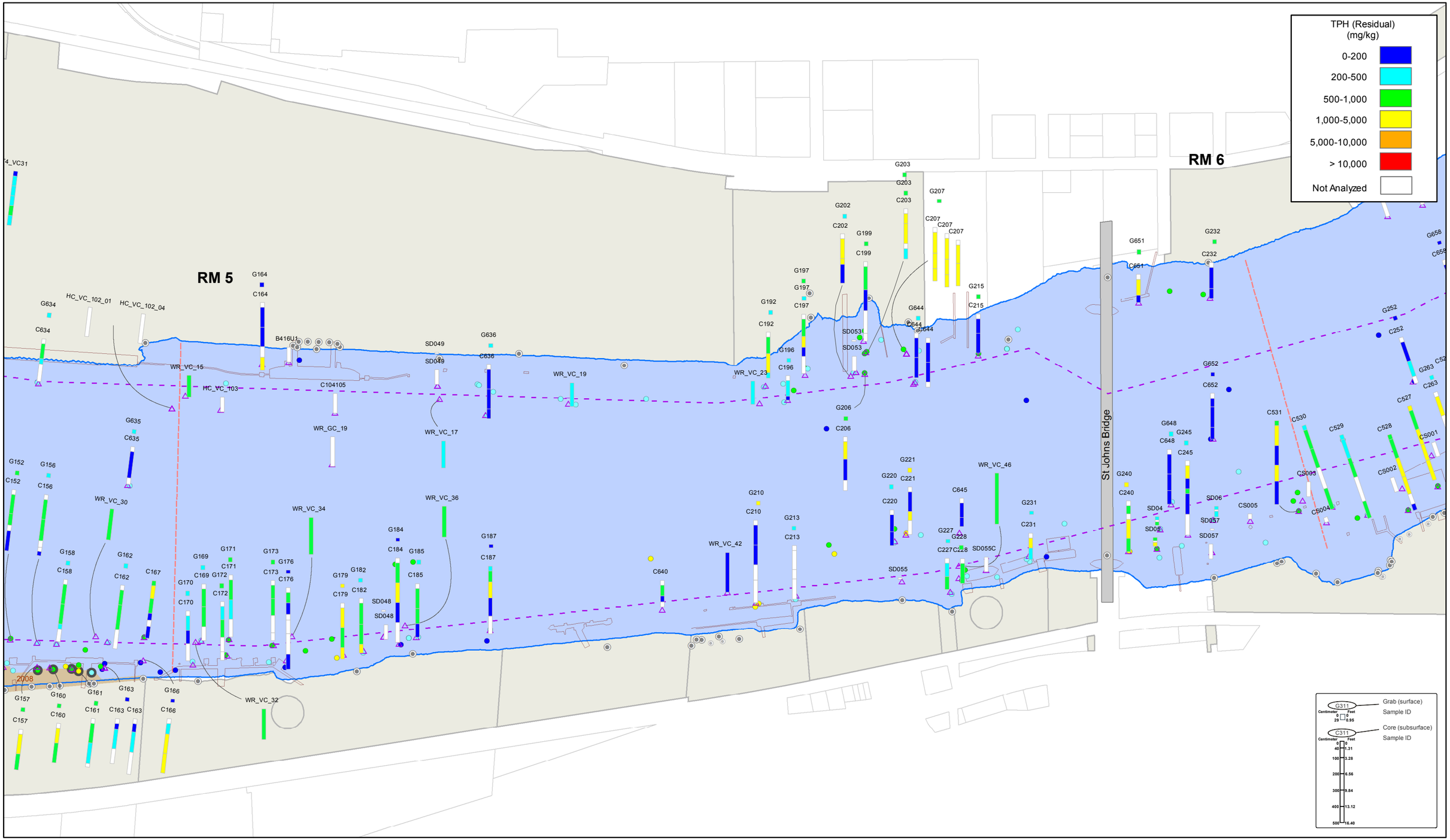
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 04 to 05 - Slips - Inset 1



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-26_Cores_RRH NoSGT_Main.mxd) - 3/10/2009 -- 1:44:11 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

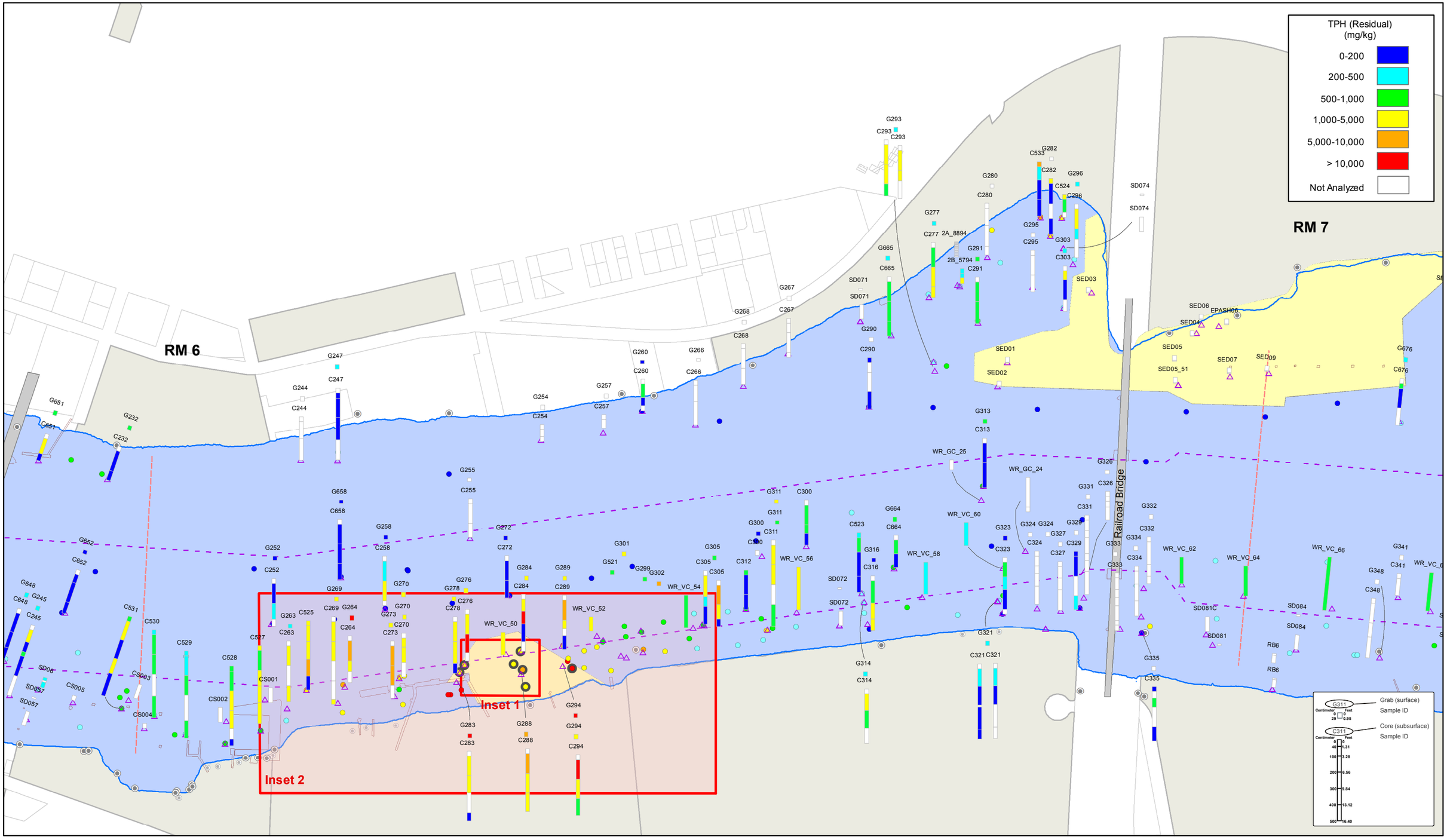
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

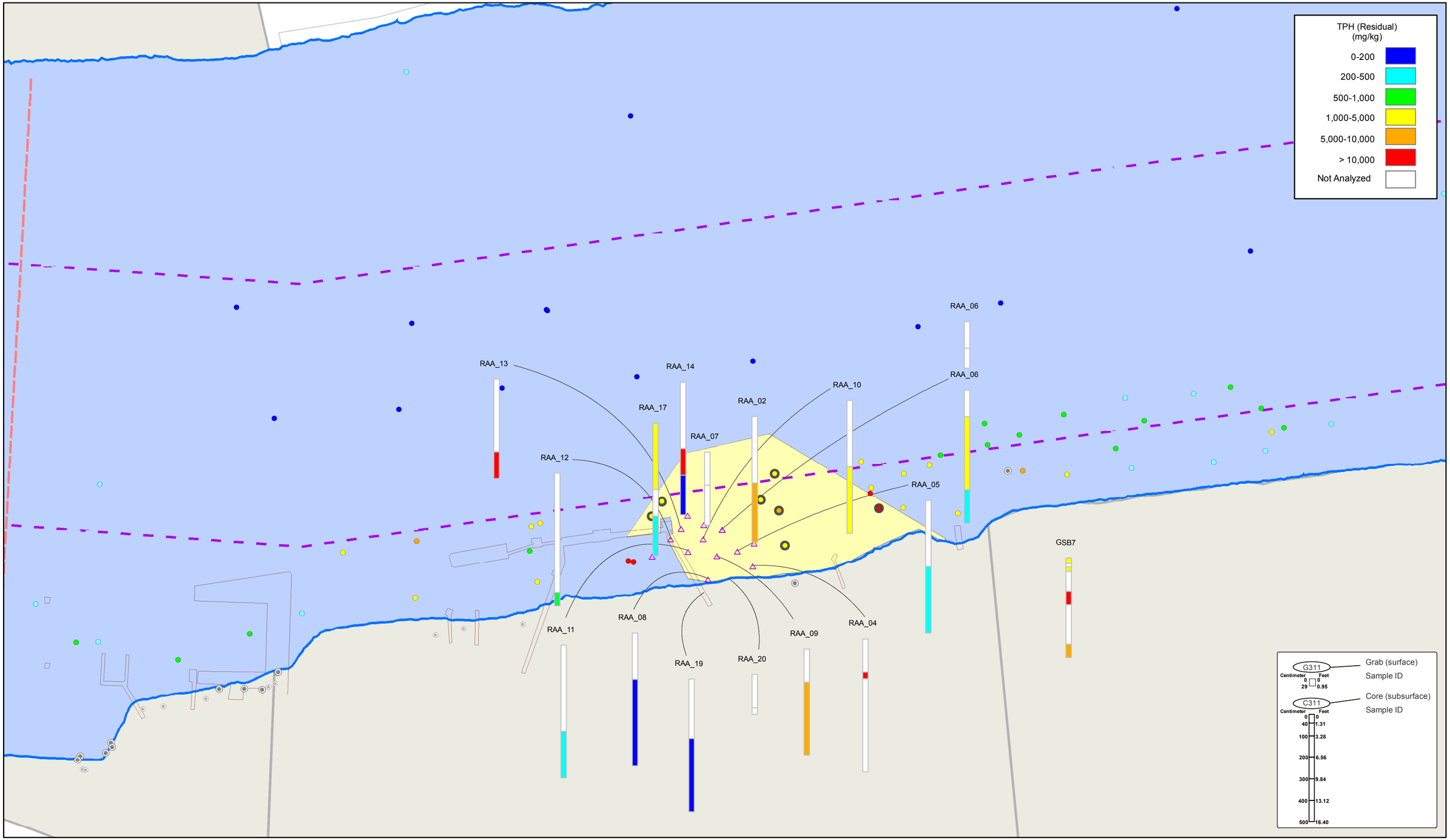
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

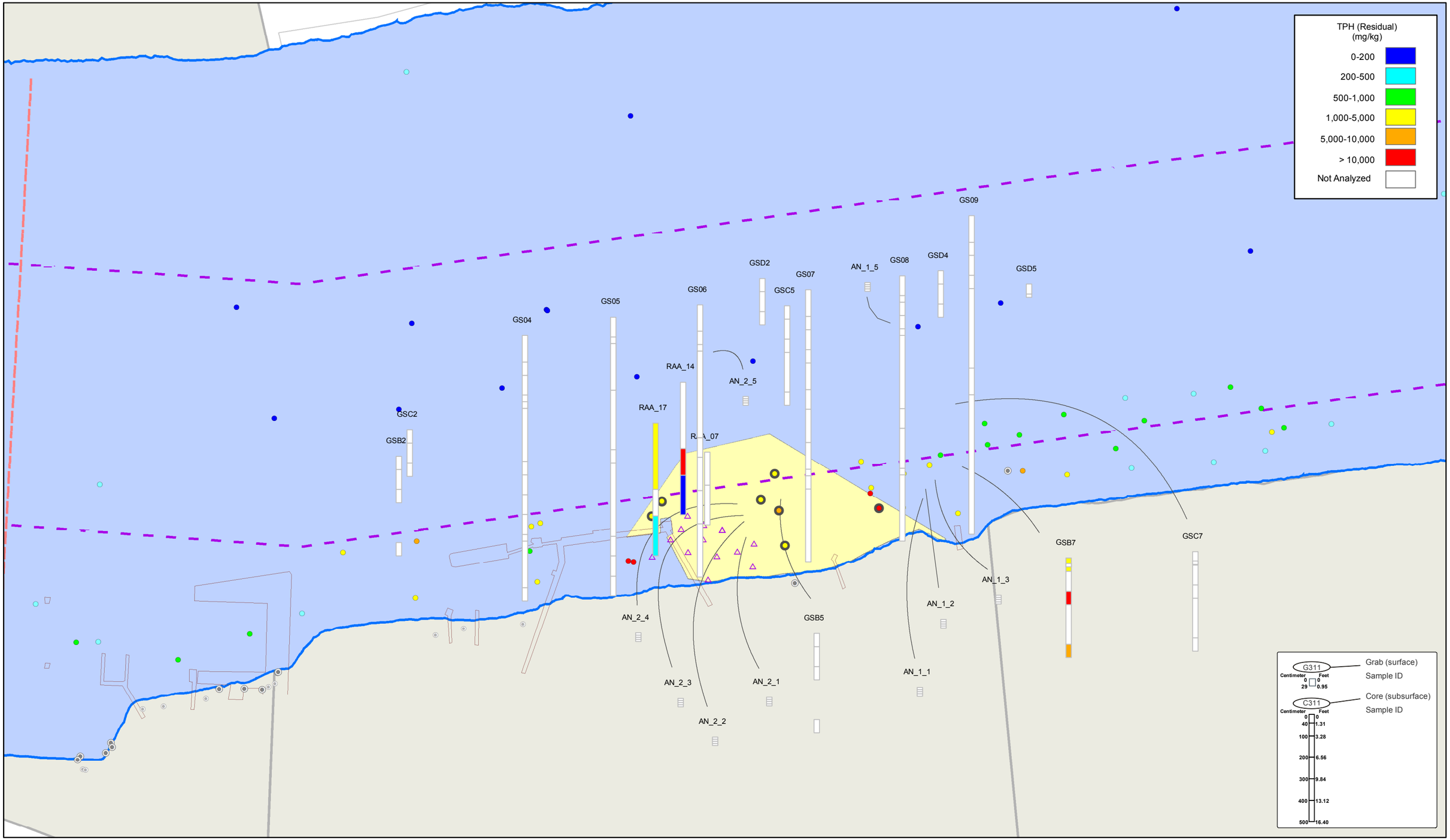
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 06 to 07 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

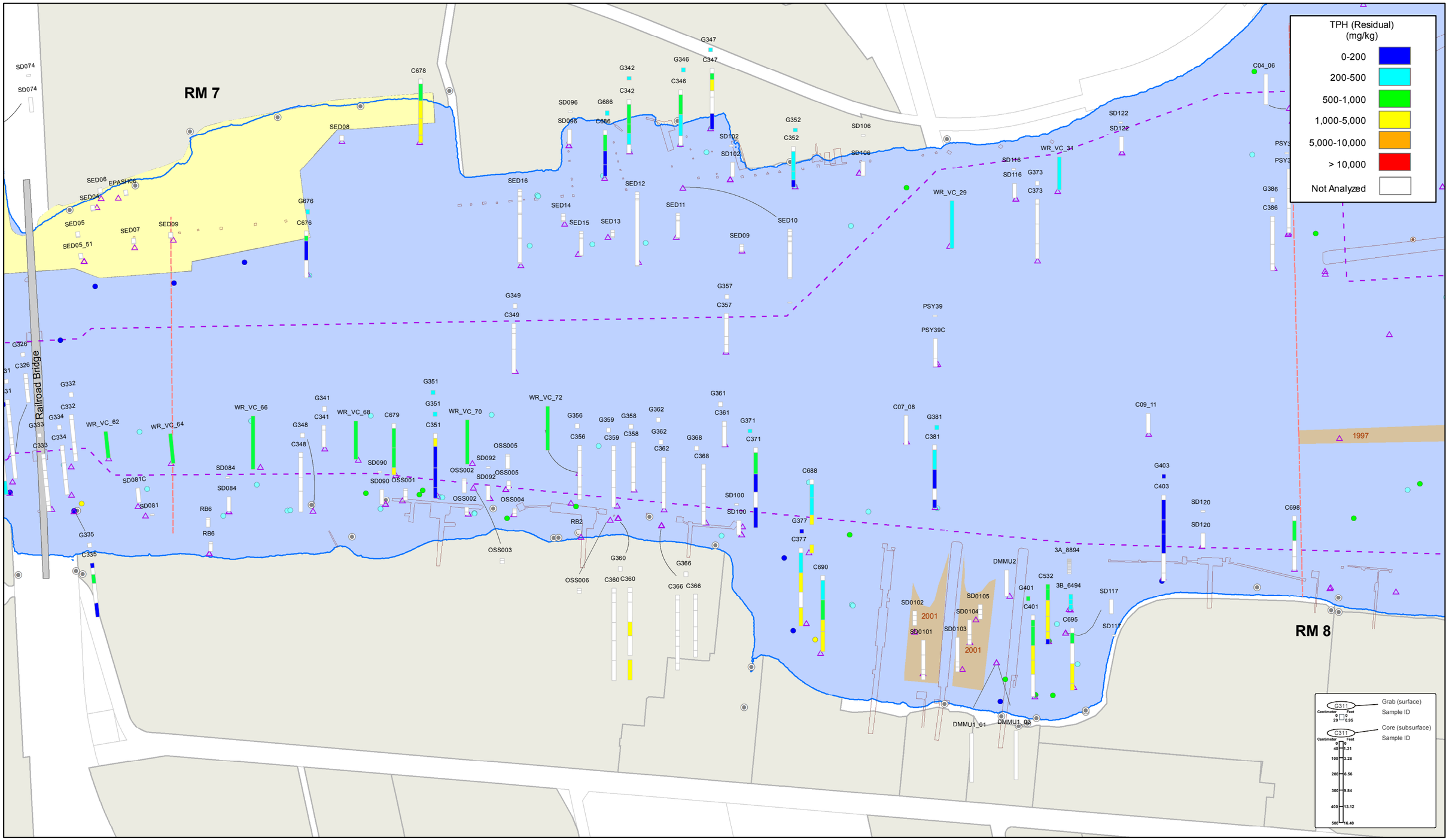
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

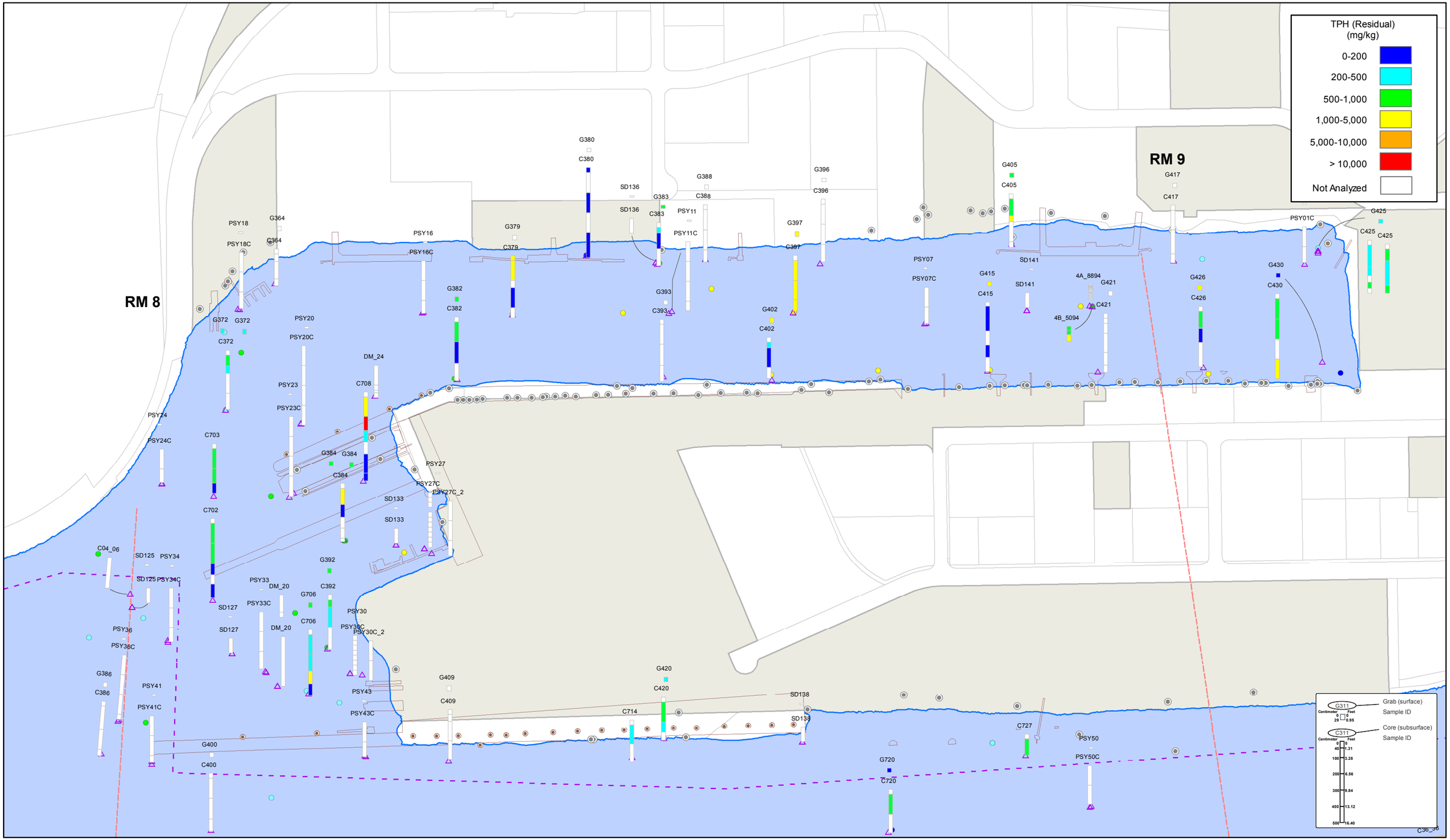
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

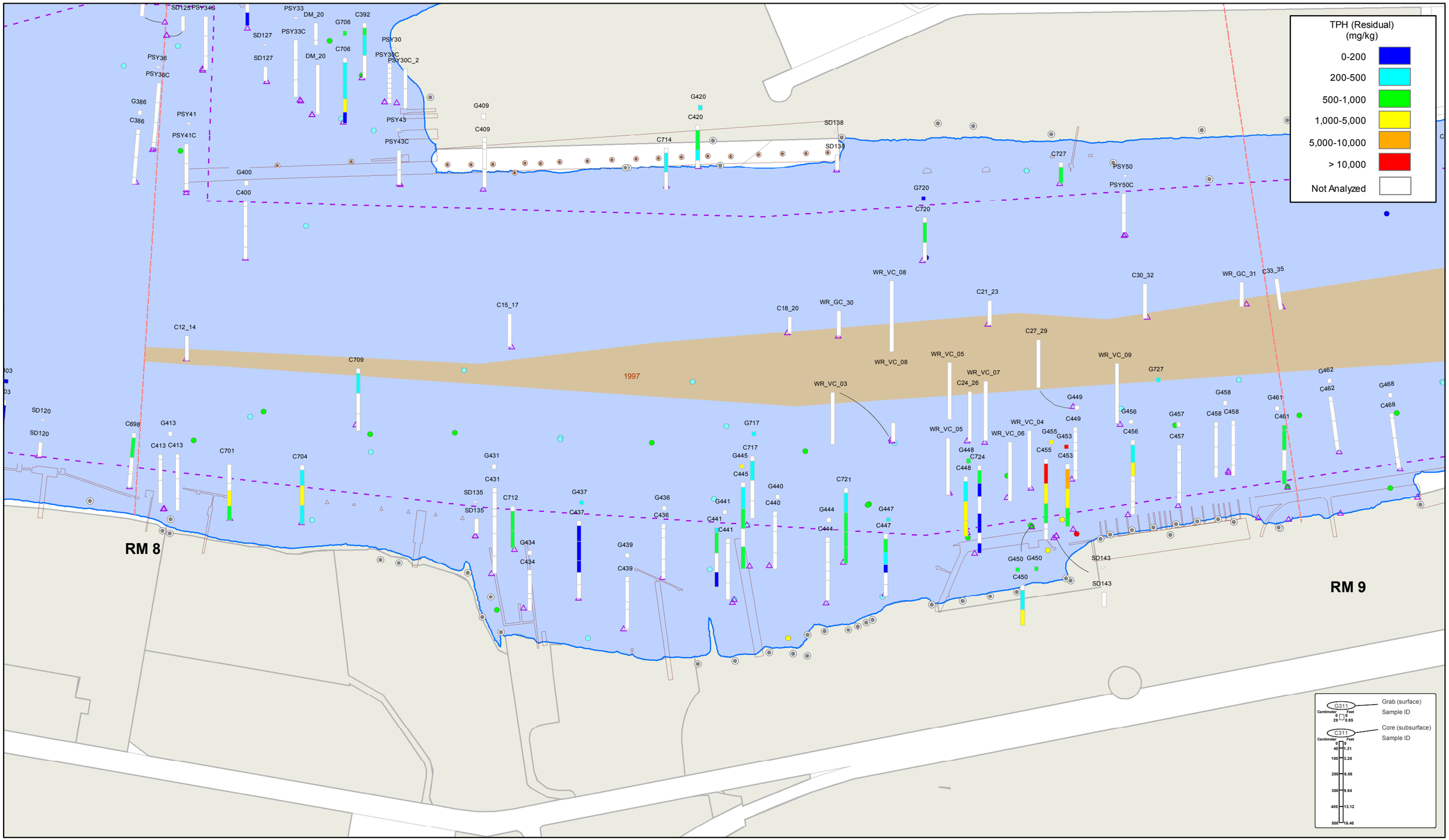
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 08 to 09 - Swan Is. East



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

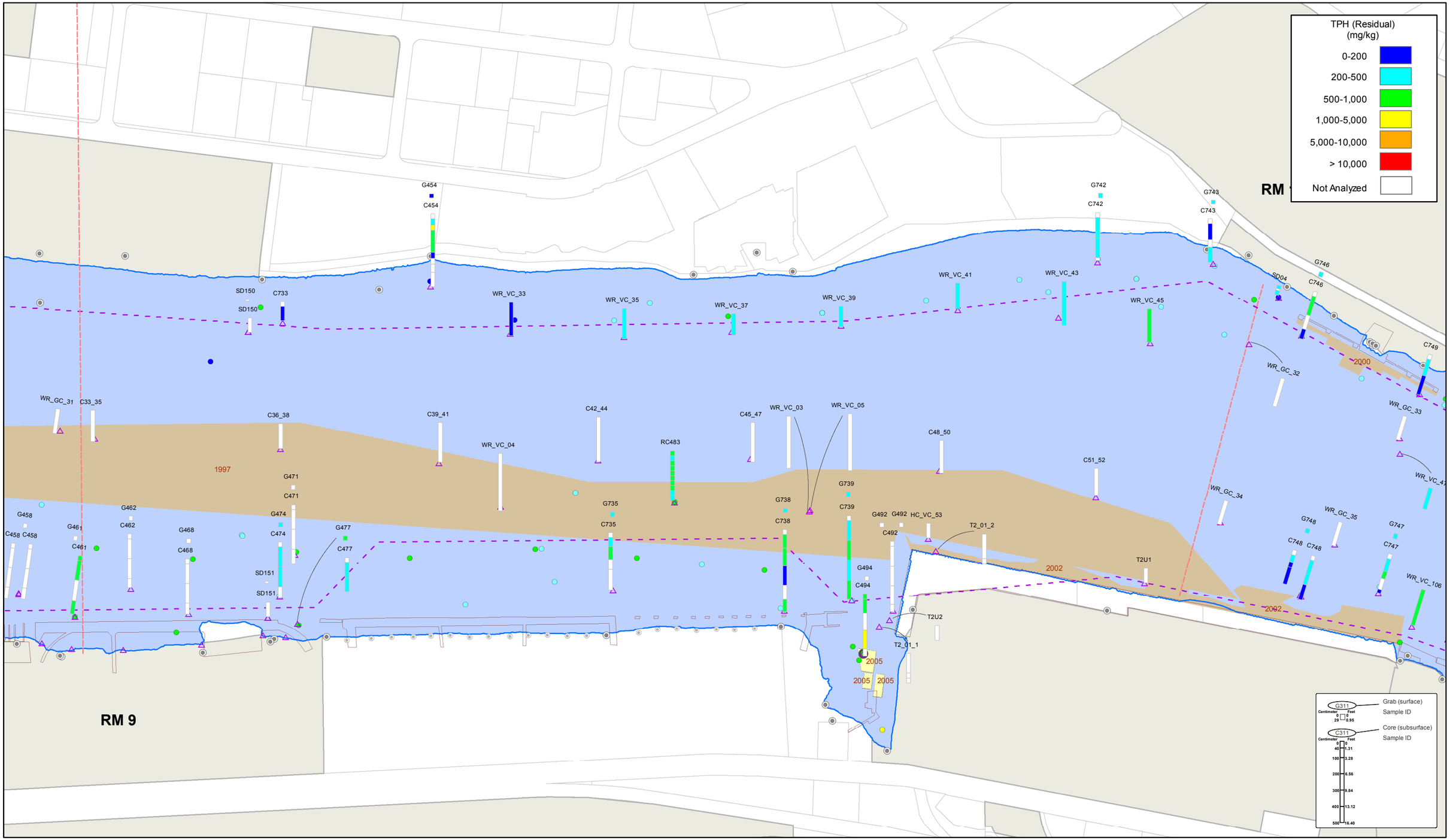
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

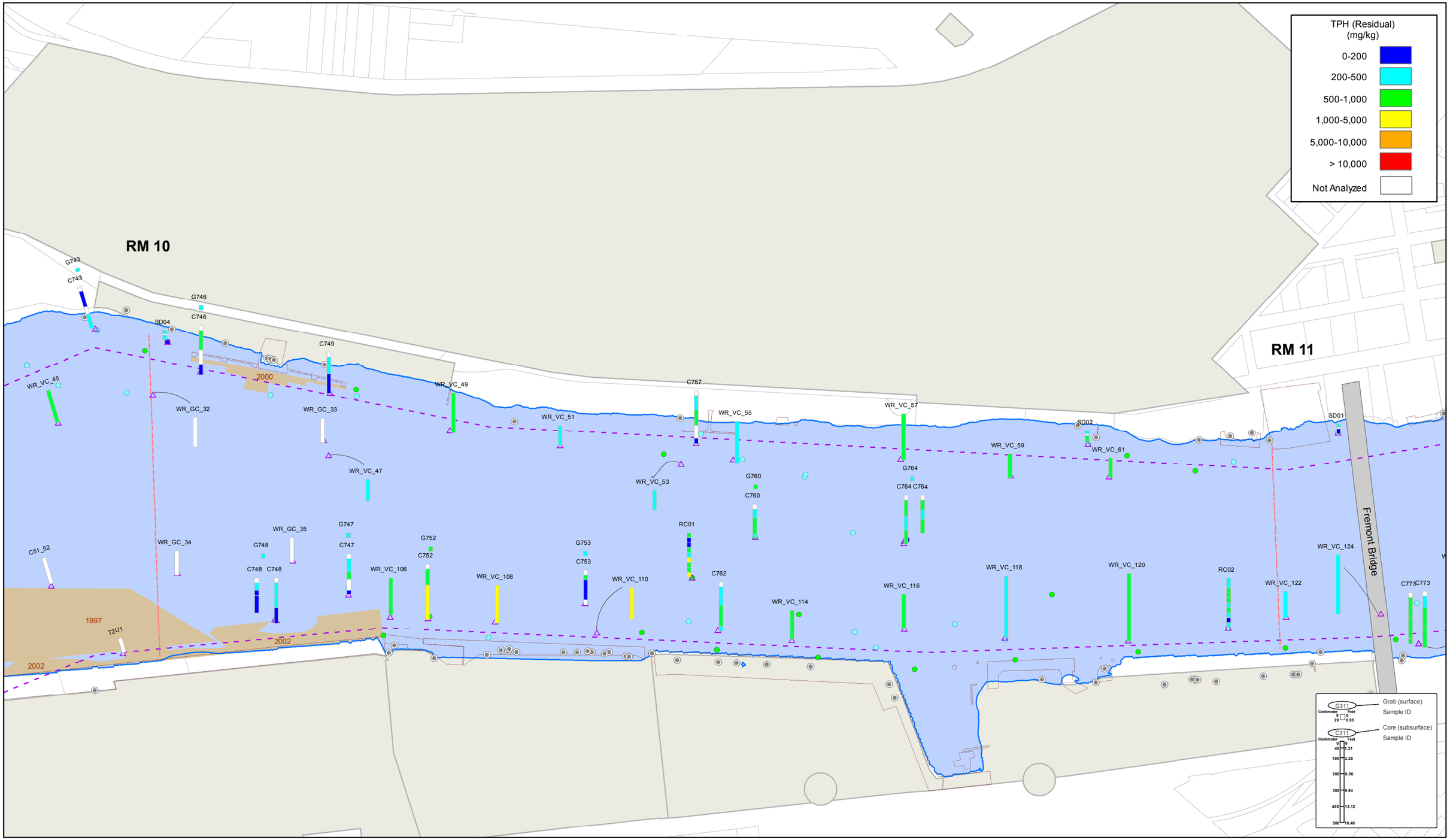
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 09 to 10



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

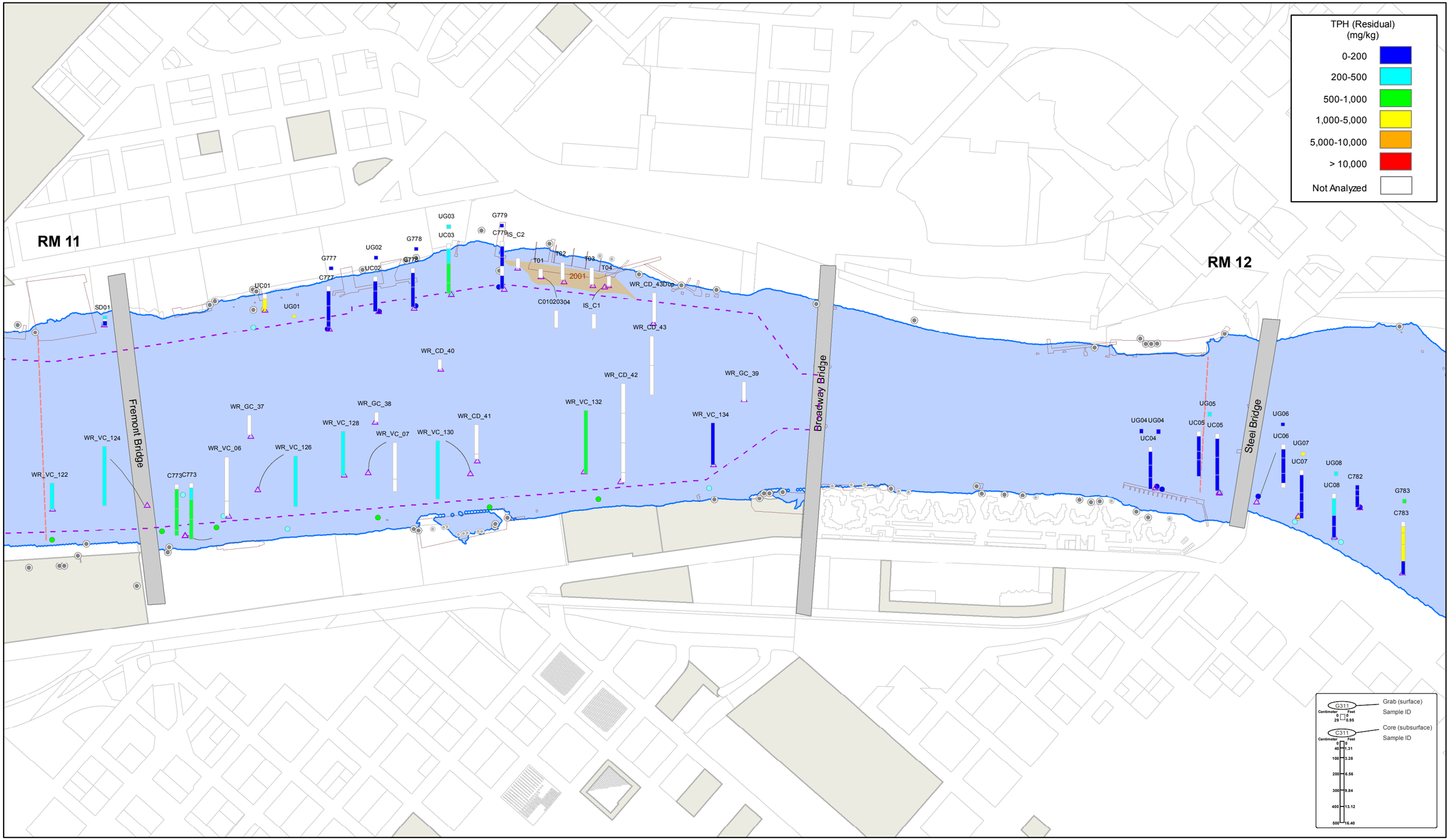
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 10 to 11



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

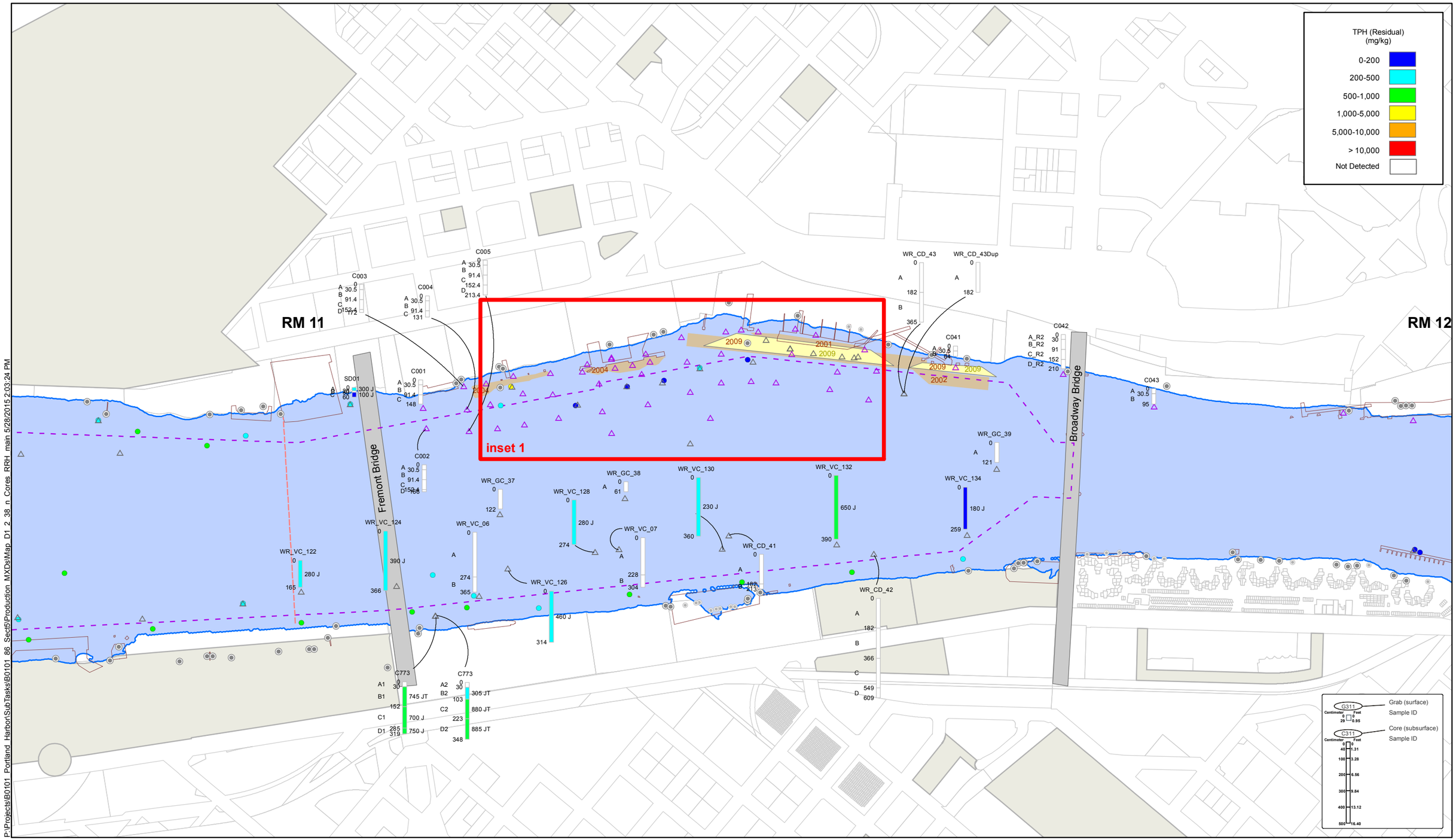
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)
River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

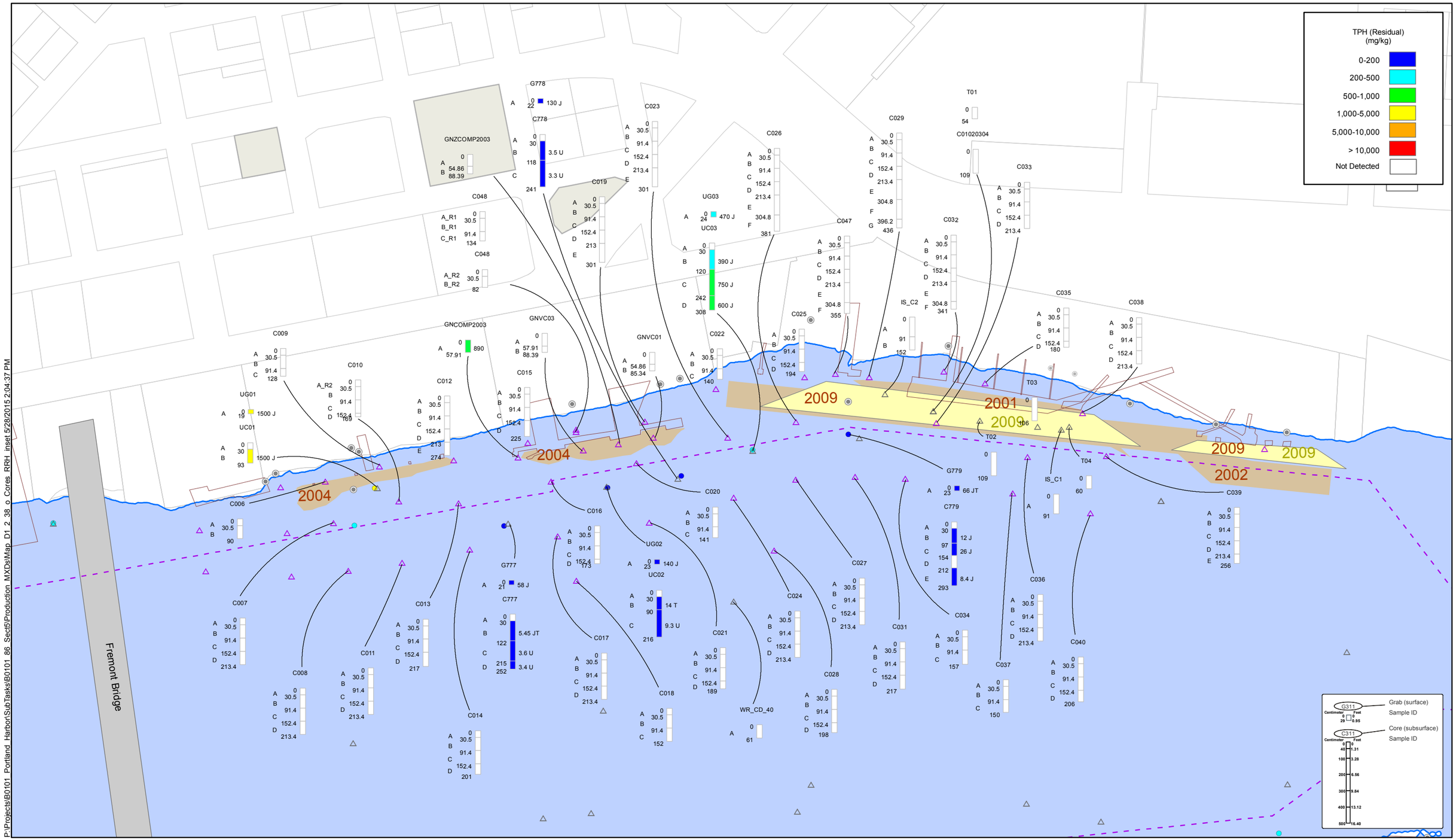
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_38_n_Cores_RRH_main 5/28/2015 2:03:24 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

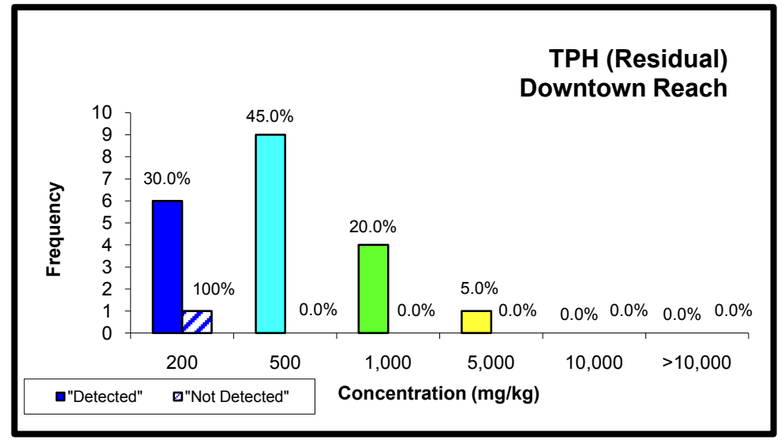
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

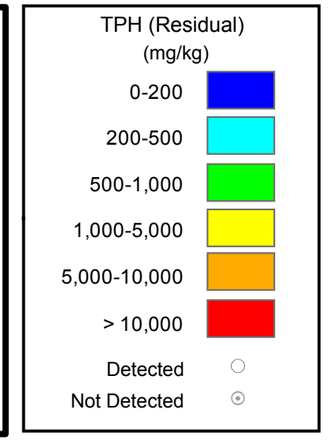
Outfalls
- Outfall
- Dock Drain
- Roof Drain

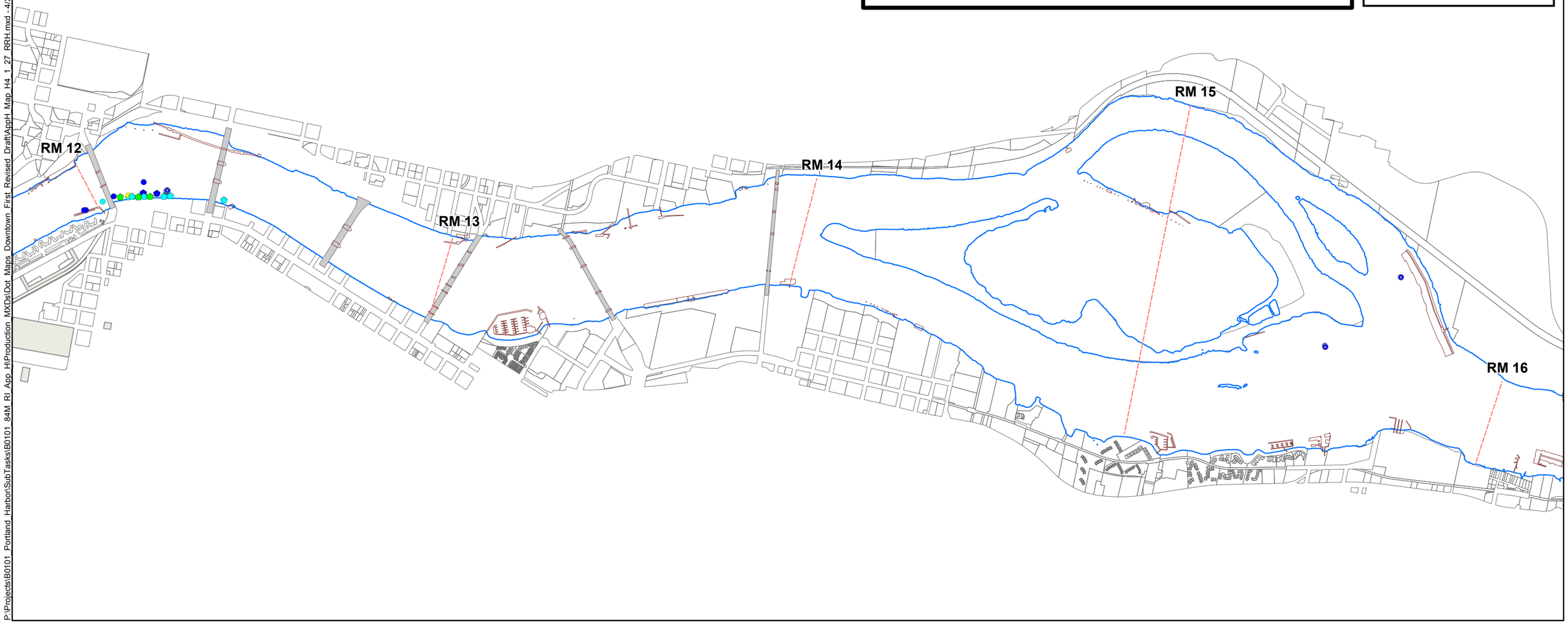
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-38o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) (mg/kg)

River Mile 11.0 - 11.8 - Inset 1







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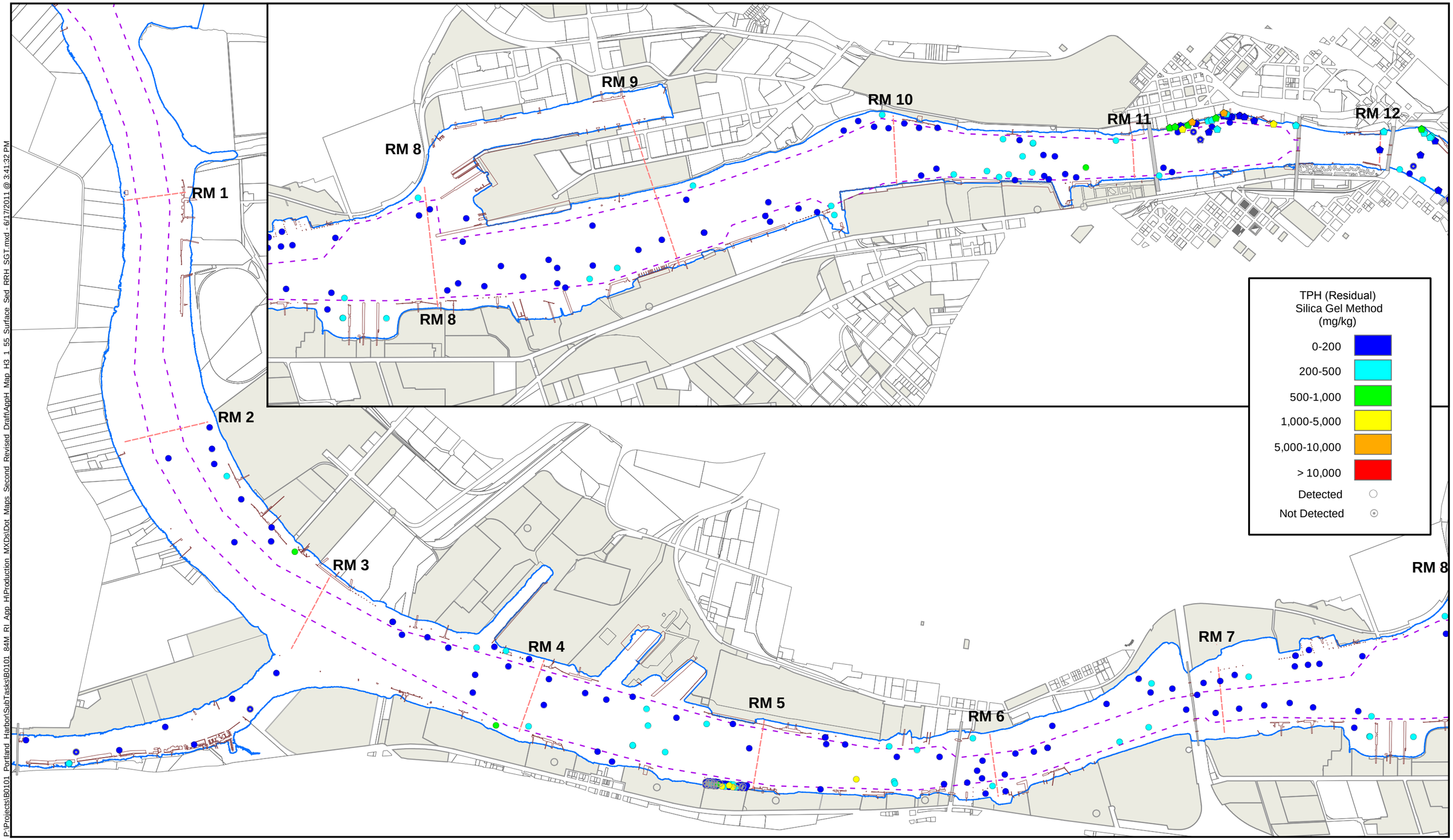
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-39
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Residual) (mg/kg)
Downtown Reach



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N

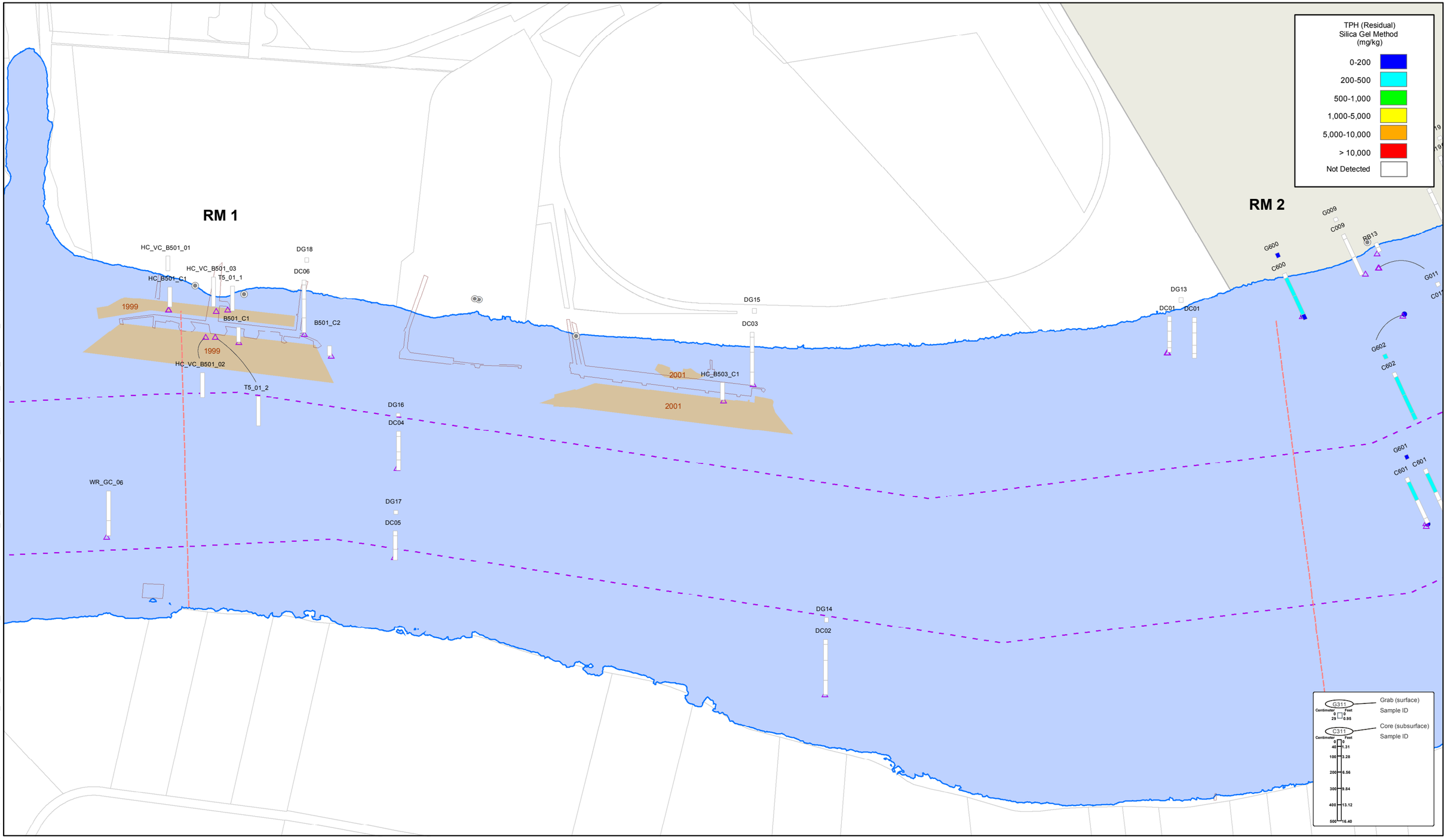
0 1,000 2,000 3,000 4,000 5,000 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ESRI Sites (2008)
- Waterfront Taxlots

Map D1.2-40
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

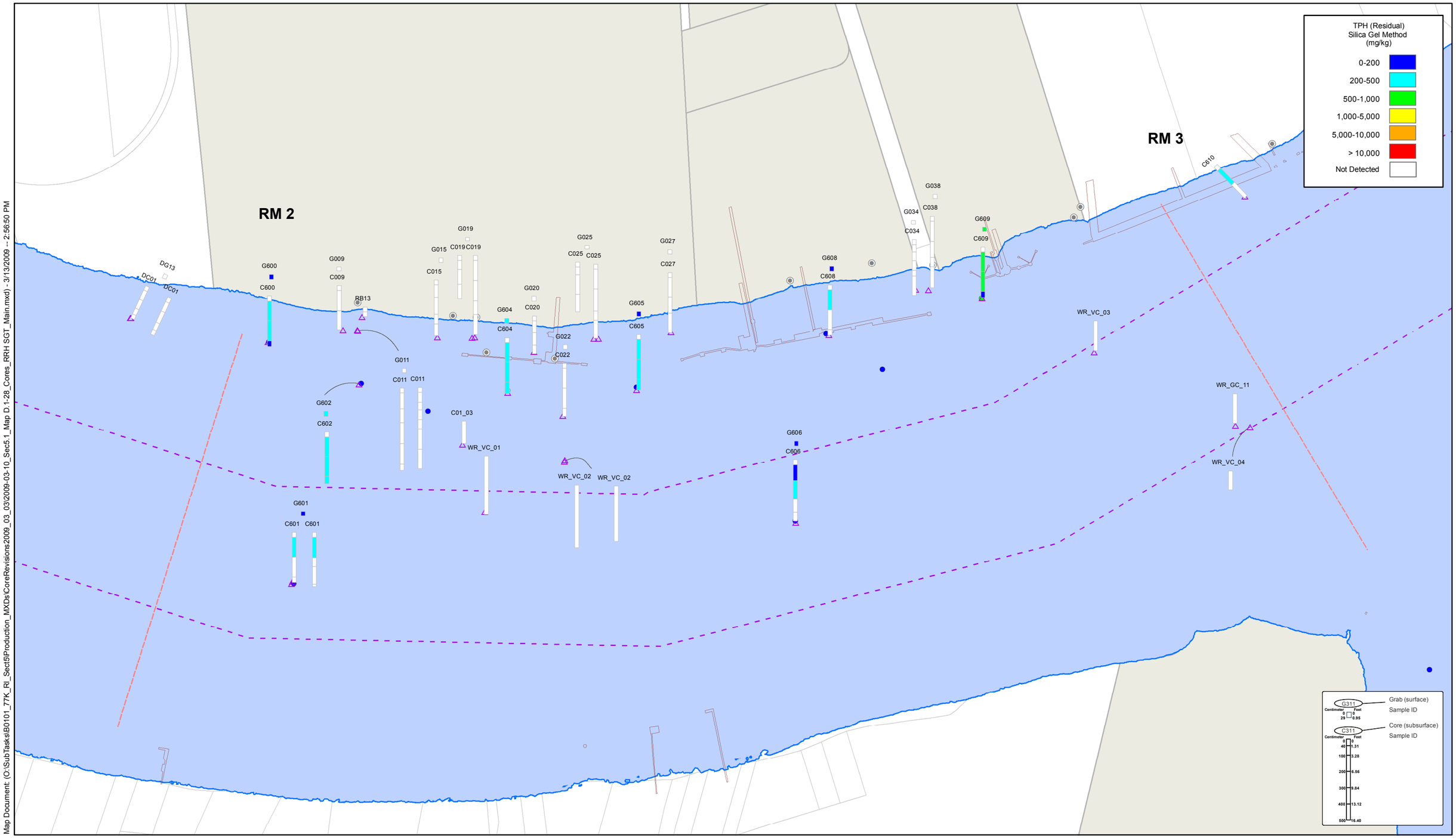
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

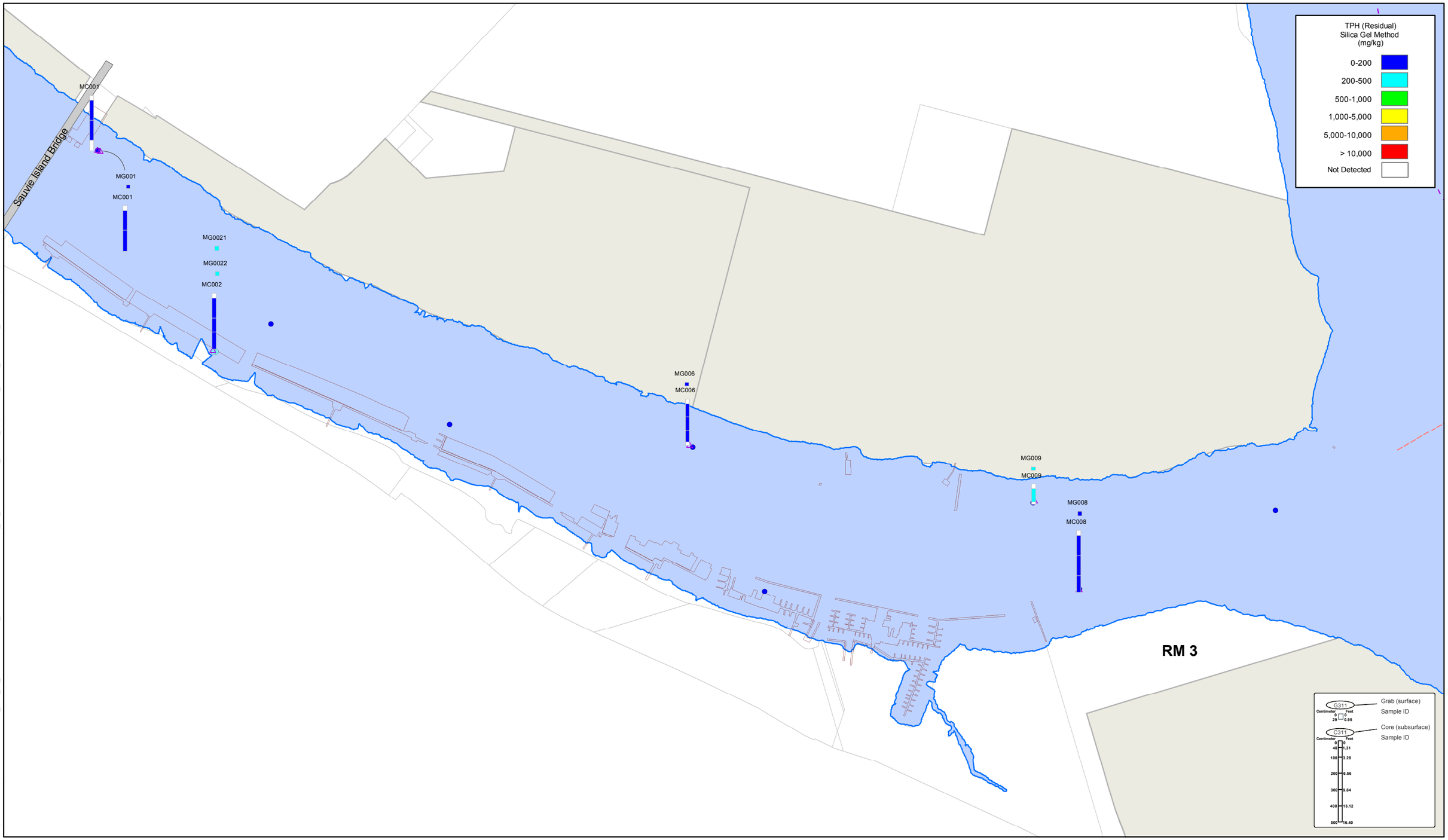
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-28_Cores_RRH SGT_Main.mxd) - 3/13/2009 -- 2:56:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

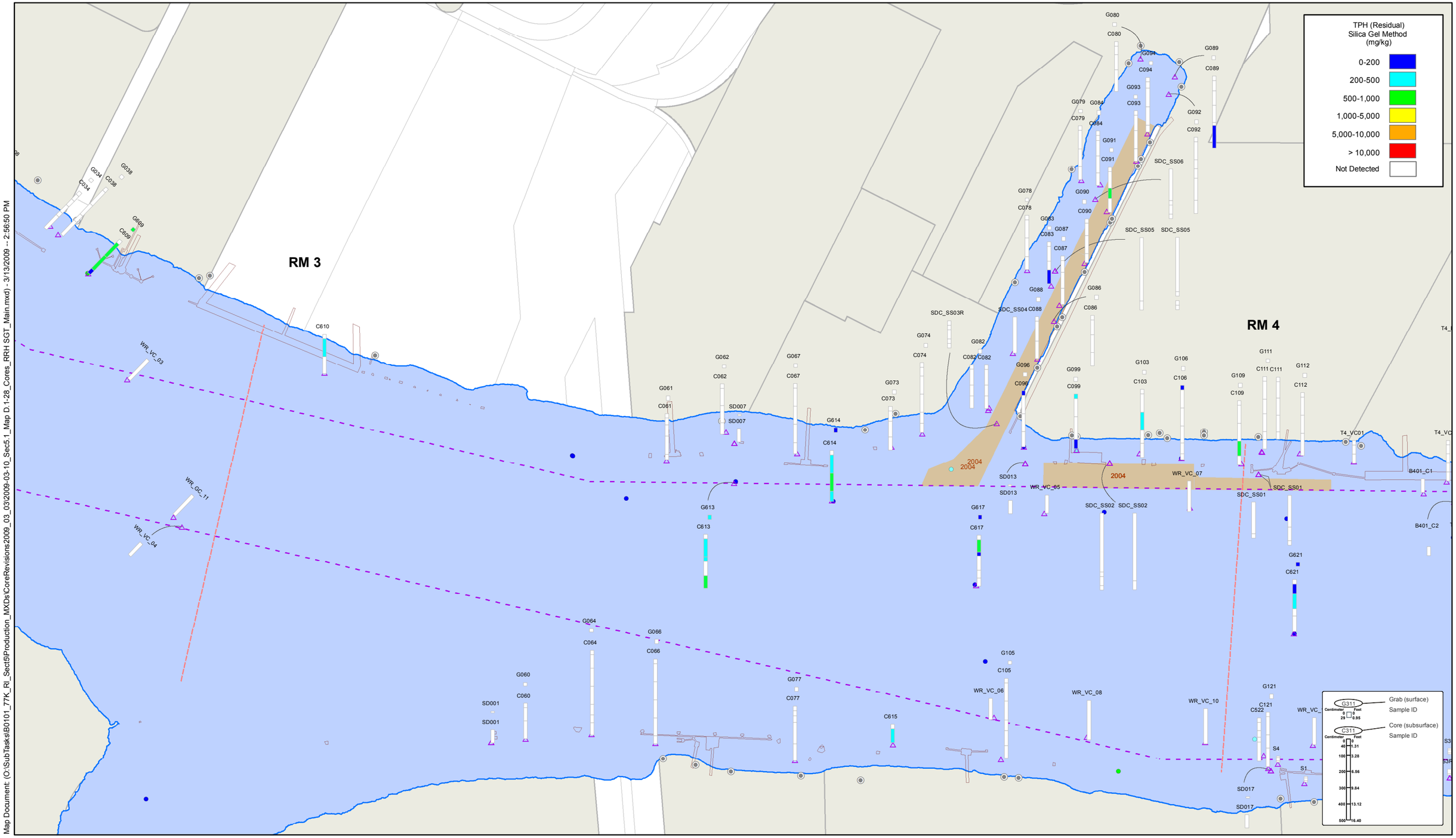
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

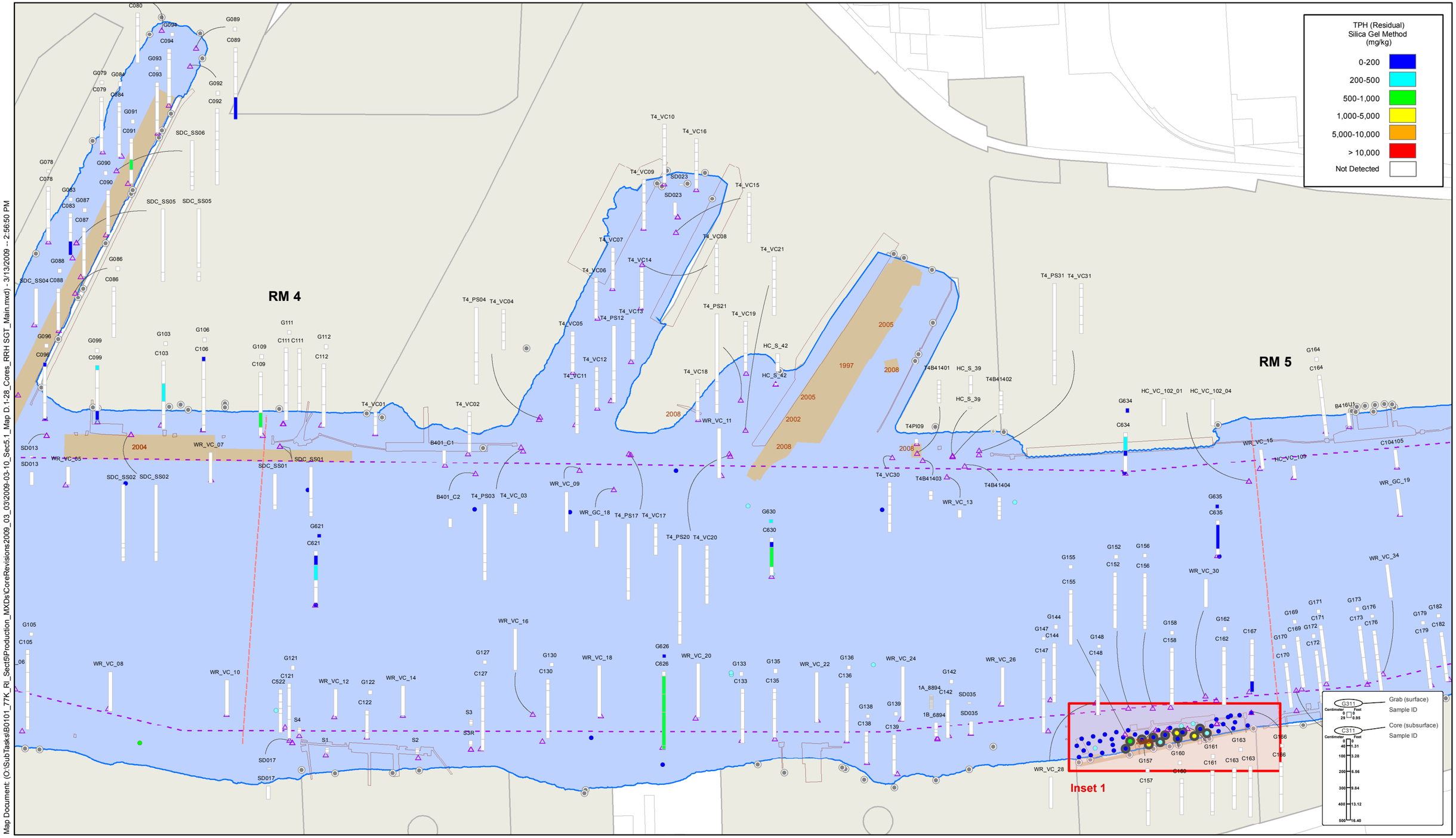
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 03 to 04



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

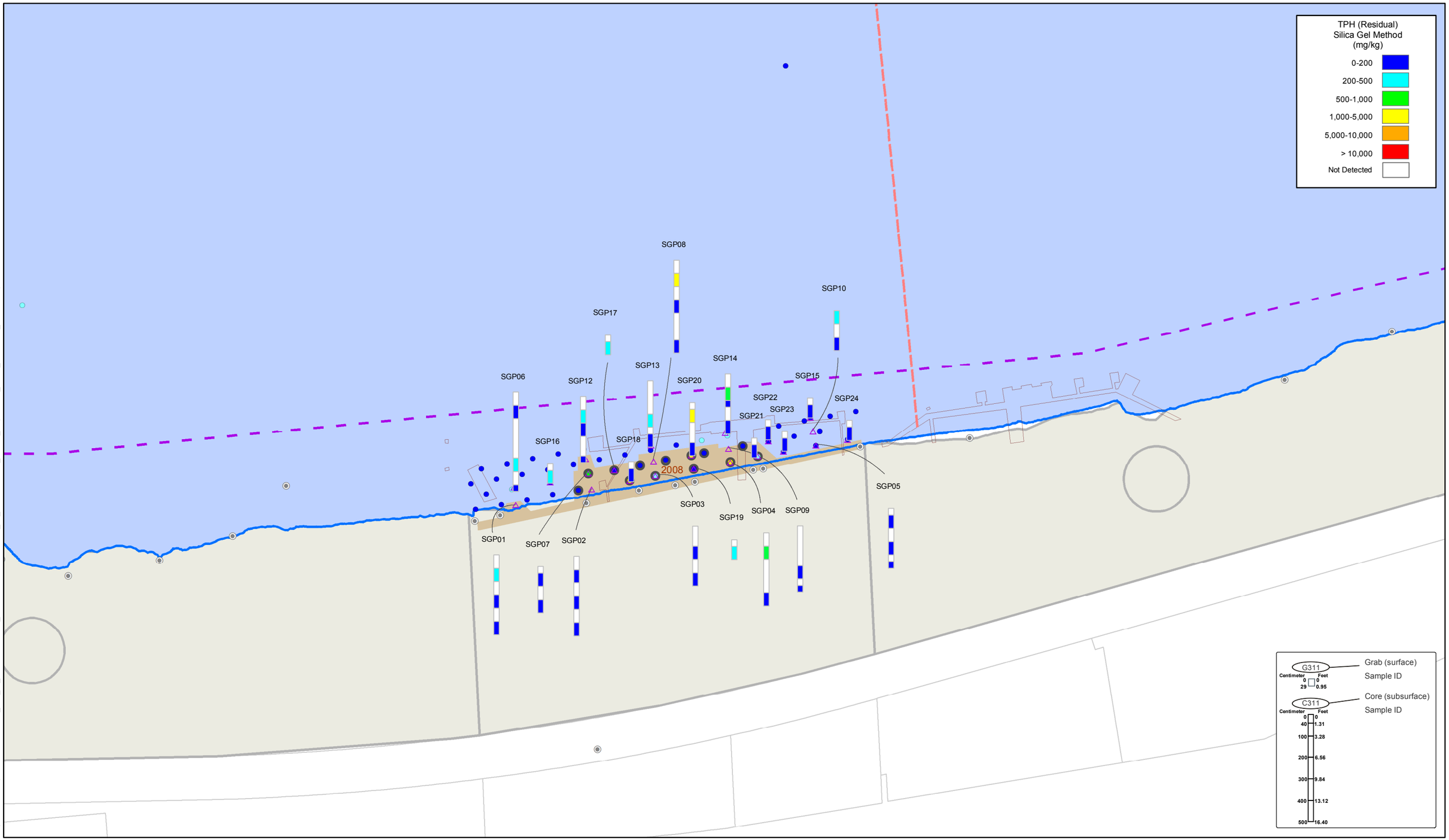
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 04 to 05 - Slips



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_032009-03-10_Sec5.1_Map D.1-28_Cores_RRH SGT_Insets.mxd) - 3/10/2009 -- 3:15:56 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

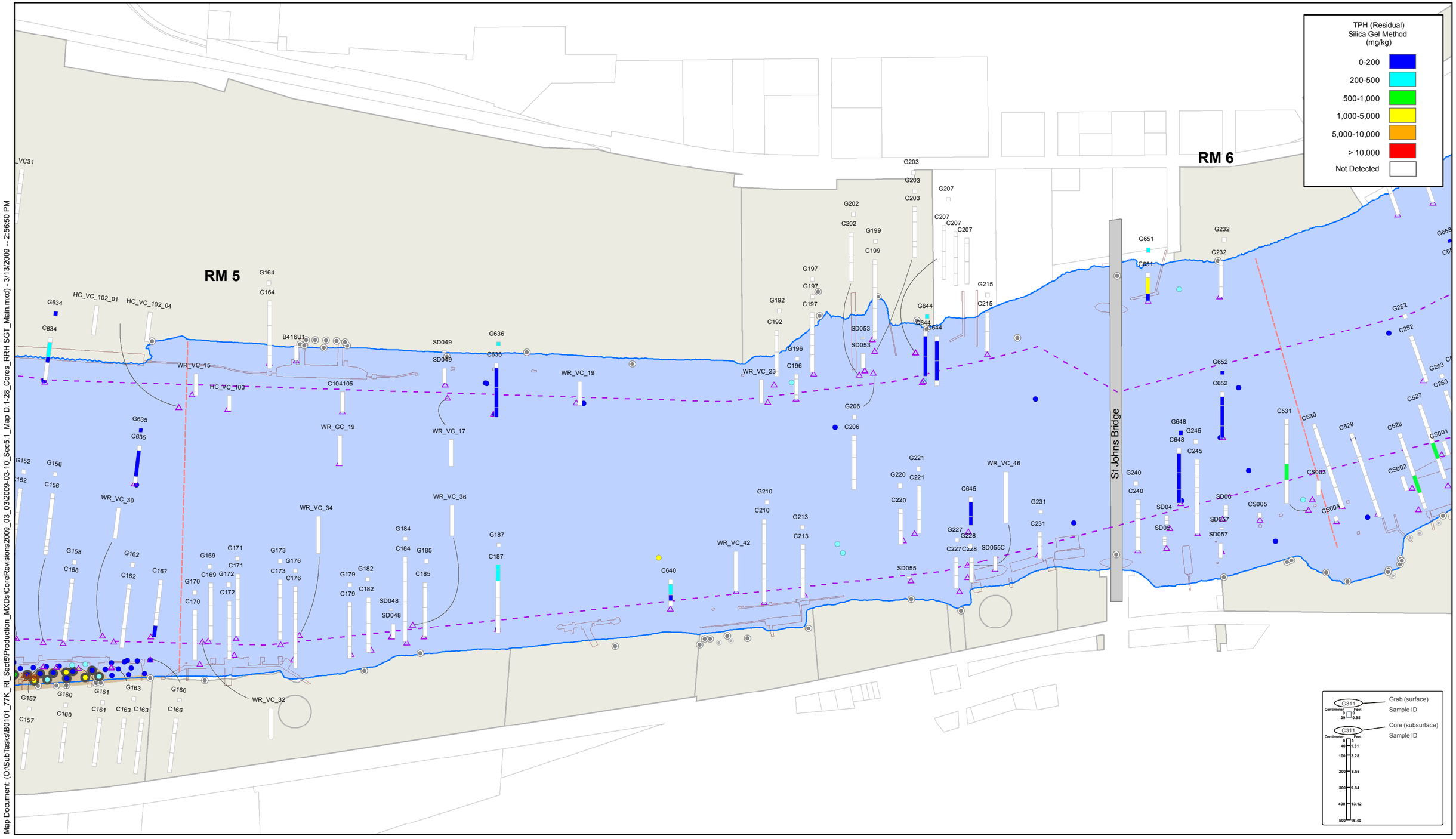
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

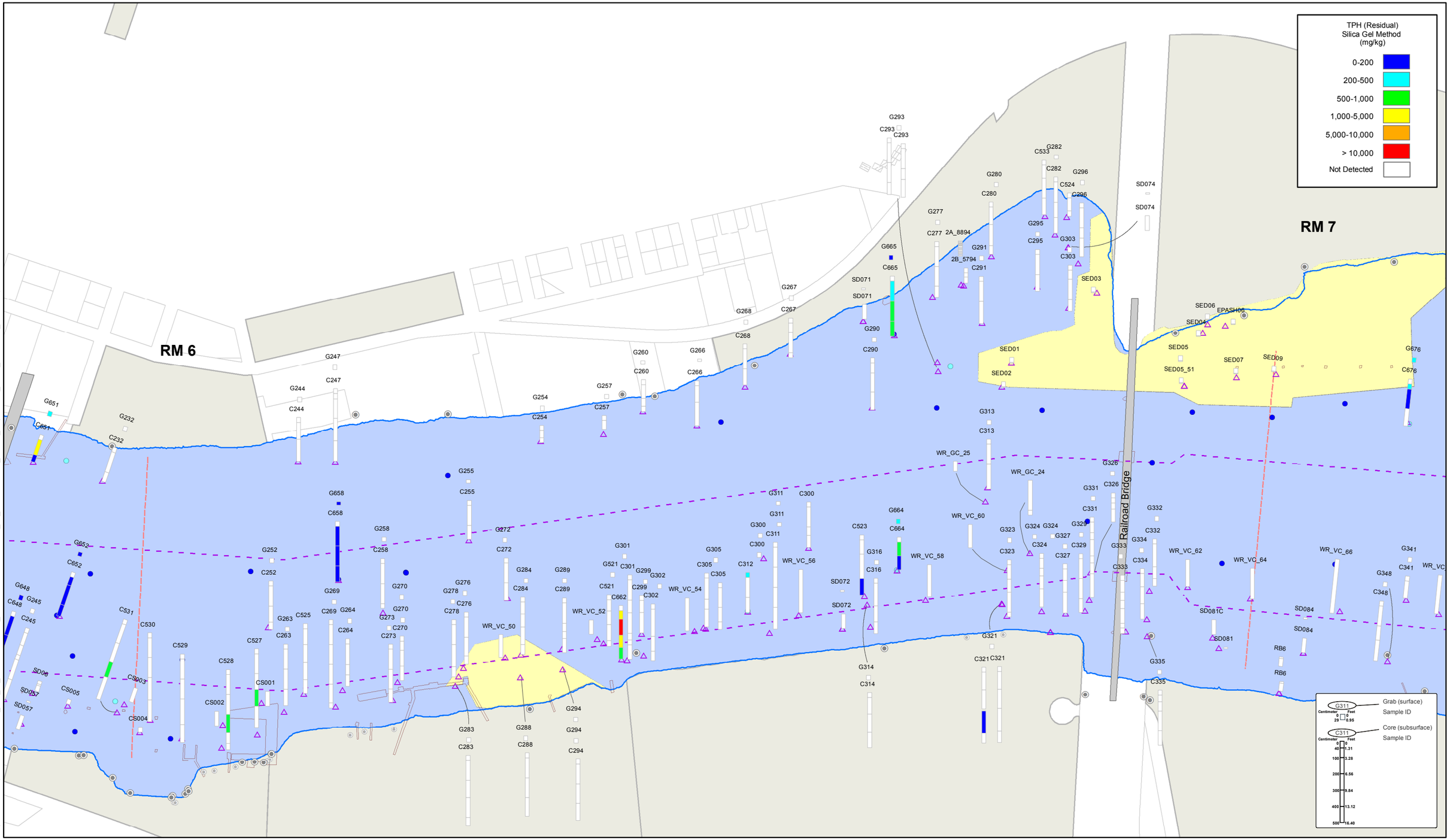
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

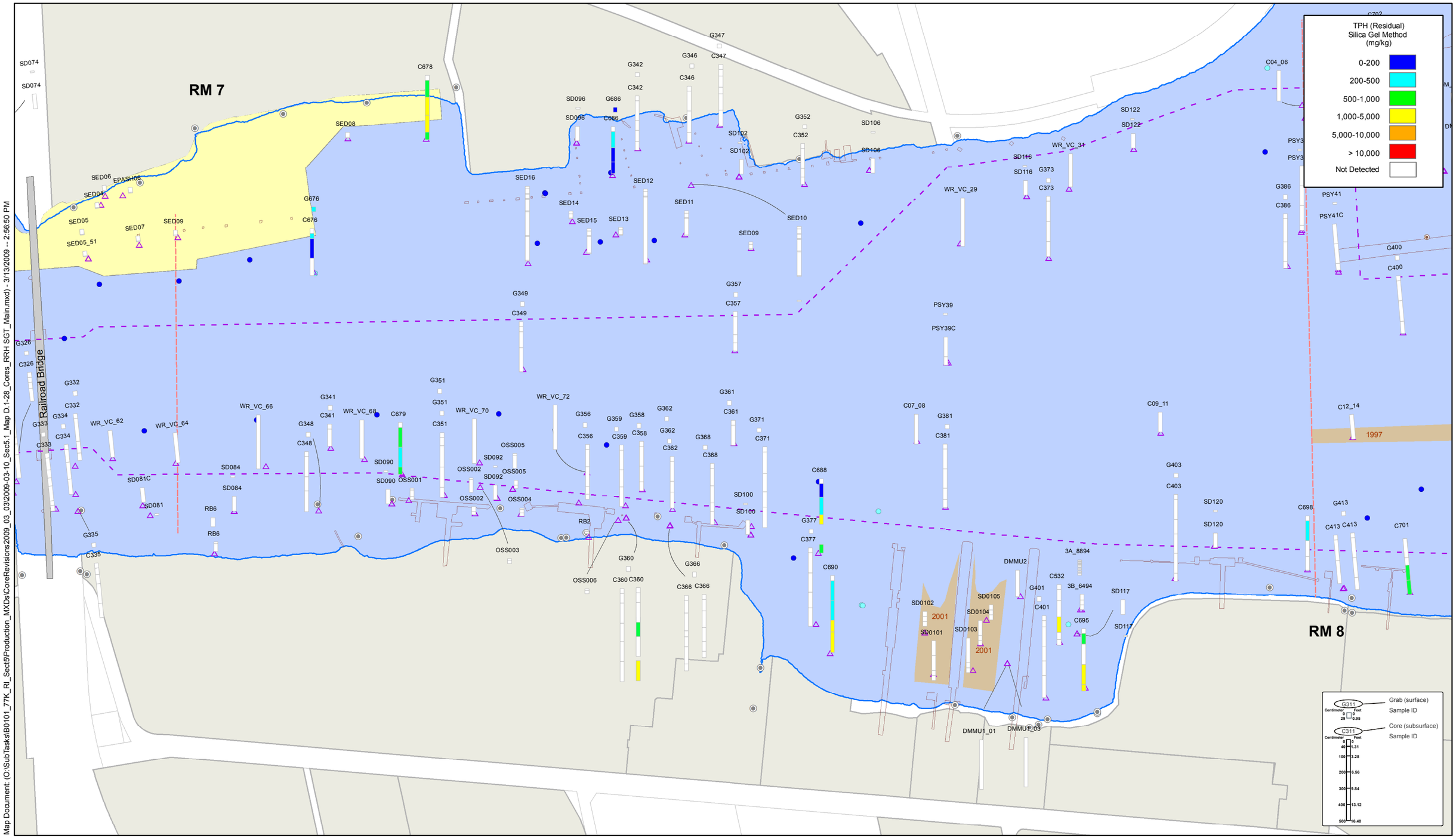
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 06 to 07



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

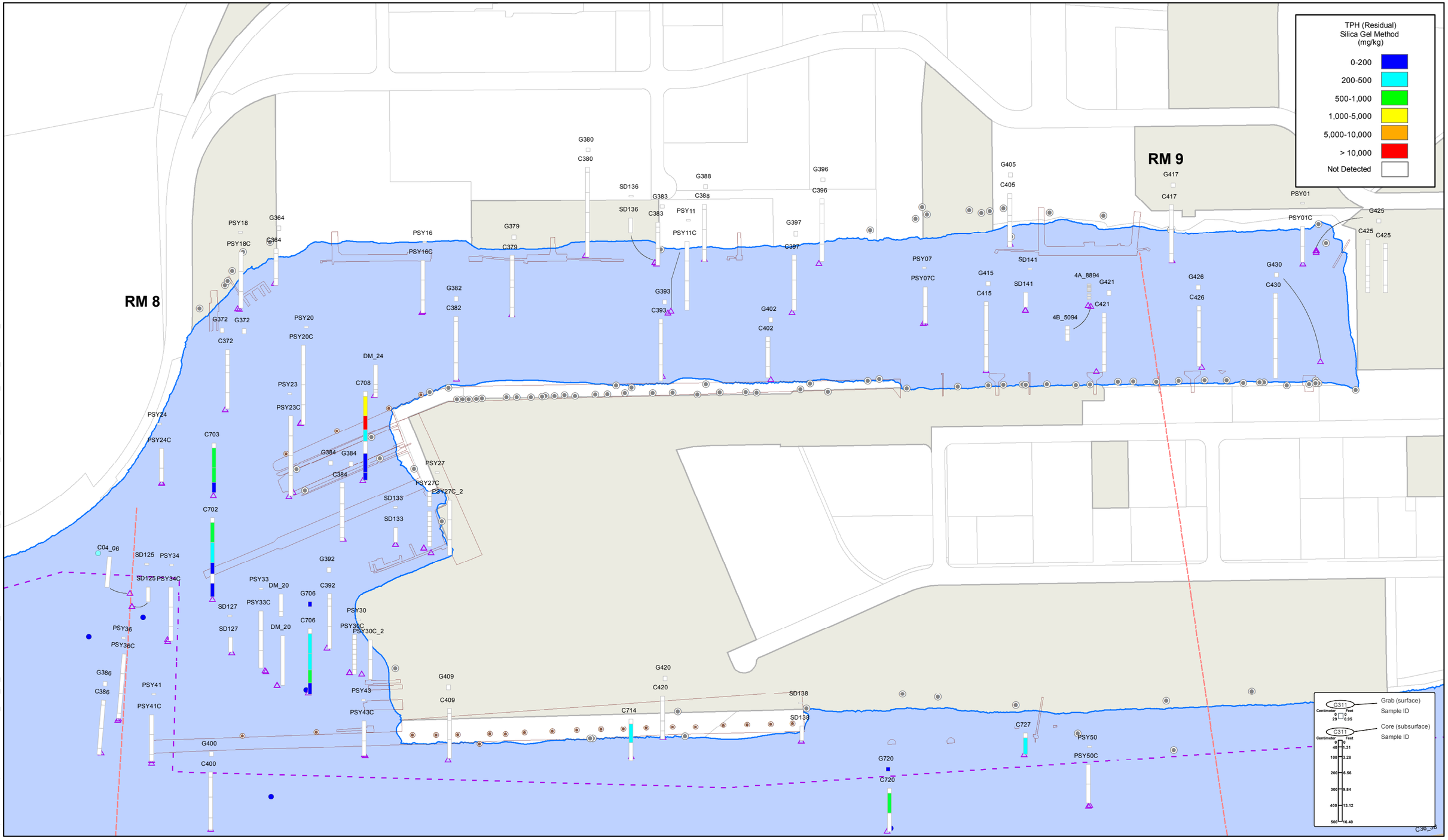
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

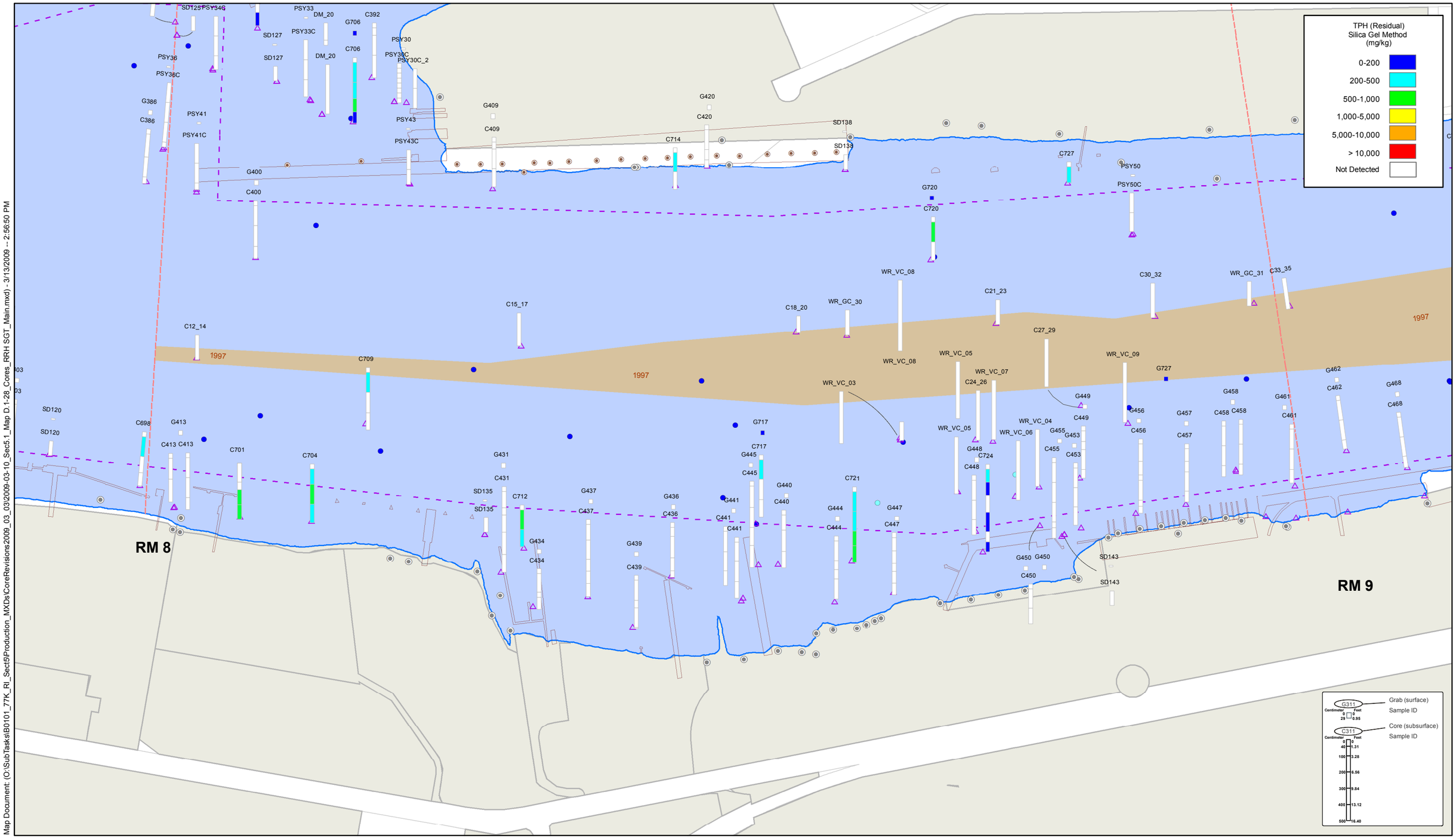
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

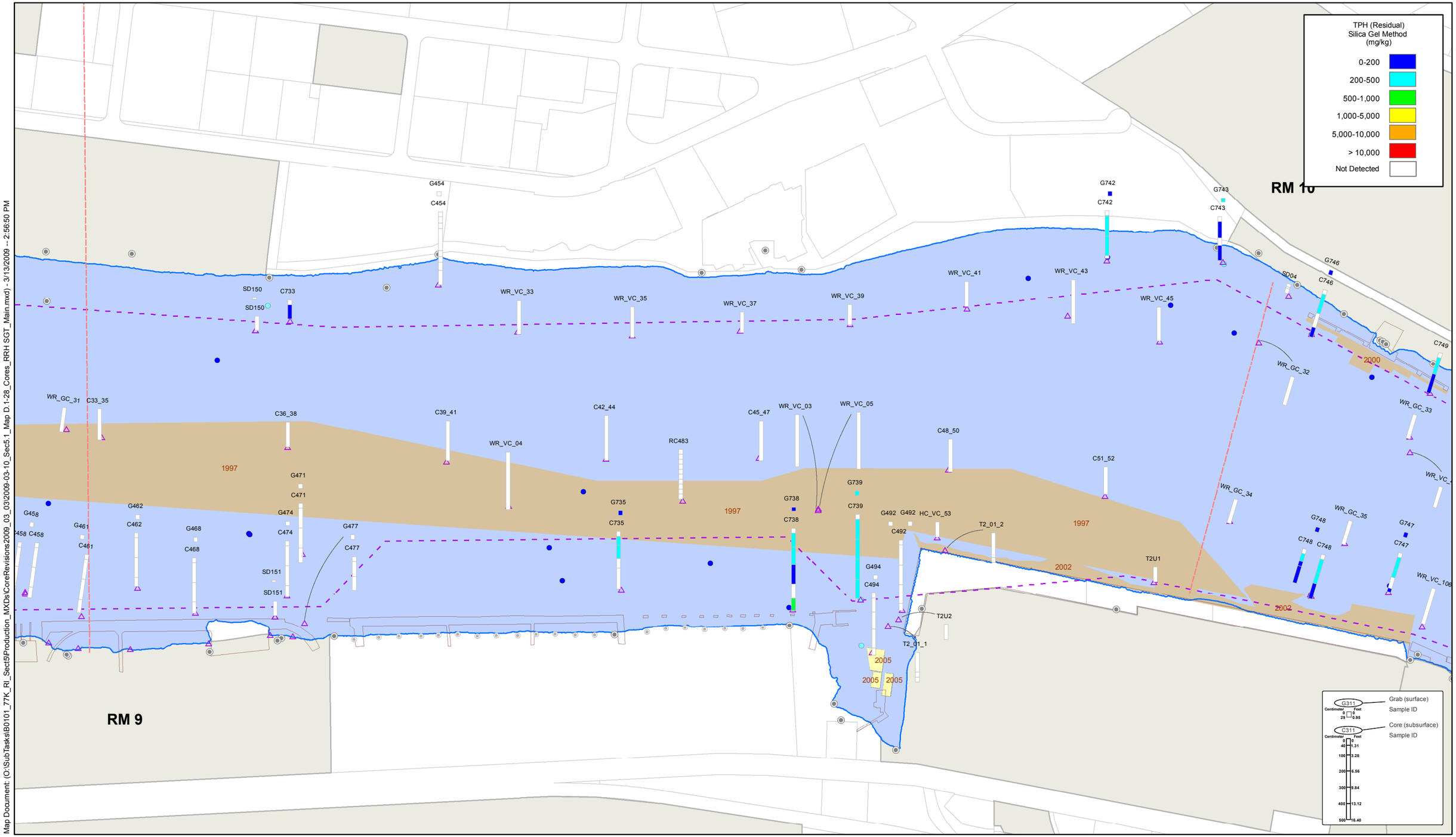
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

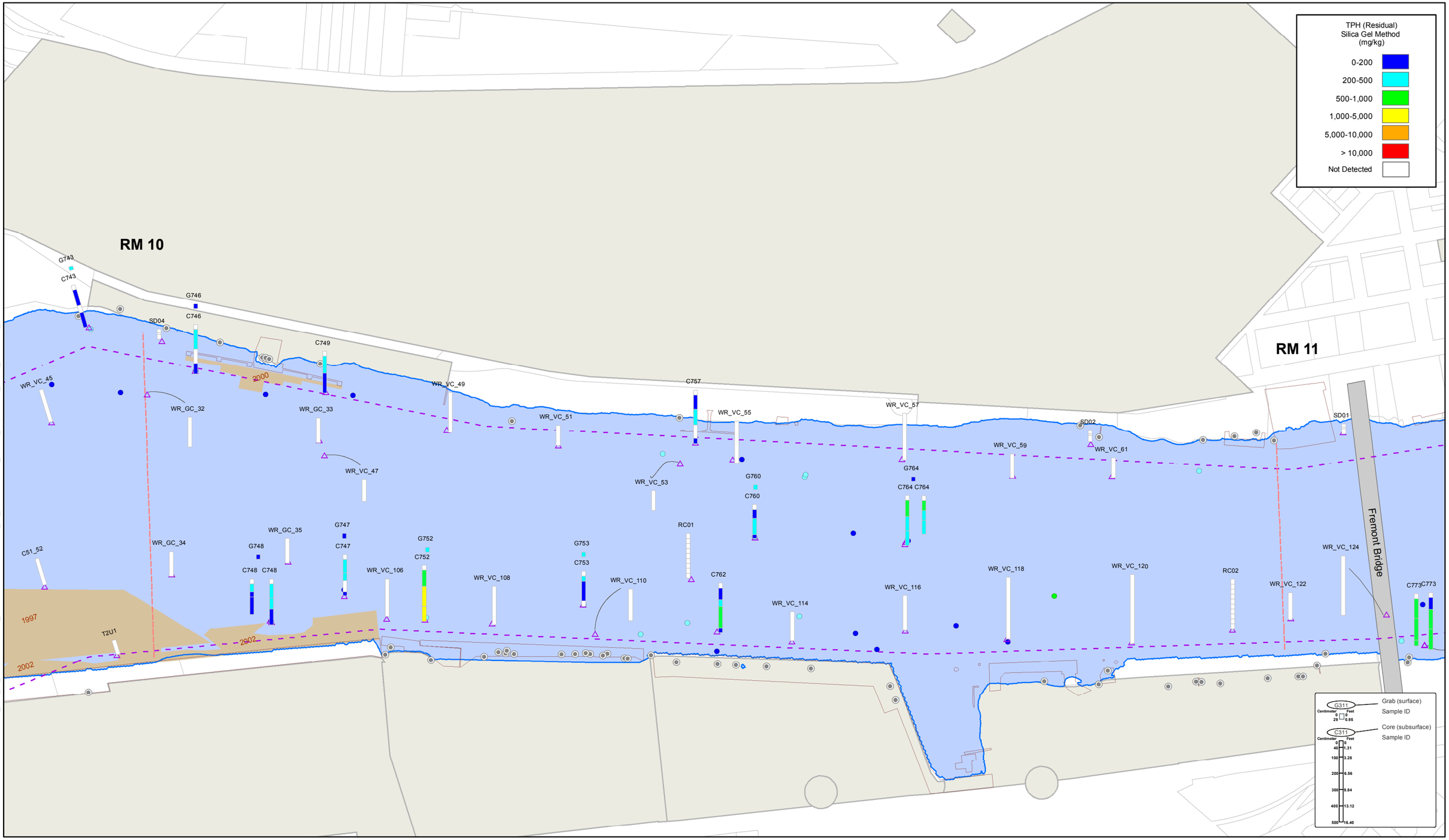
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 09 to 10



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

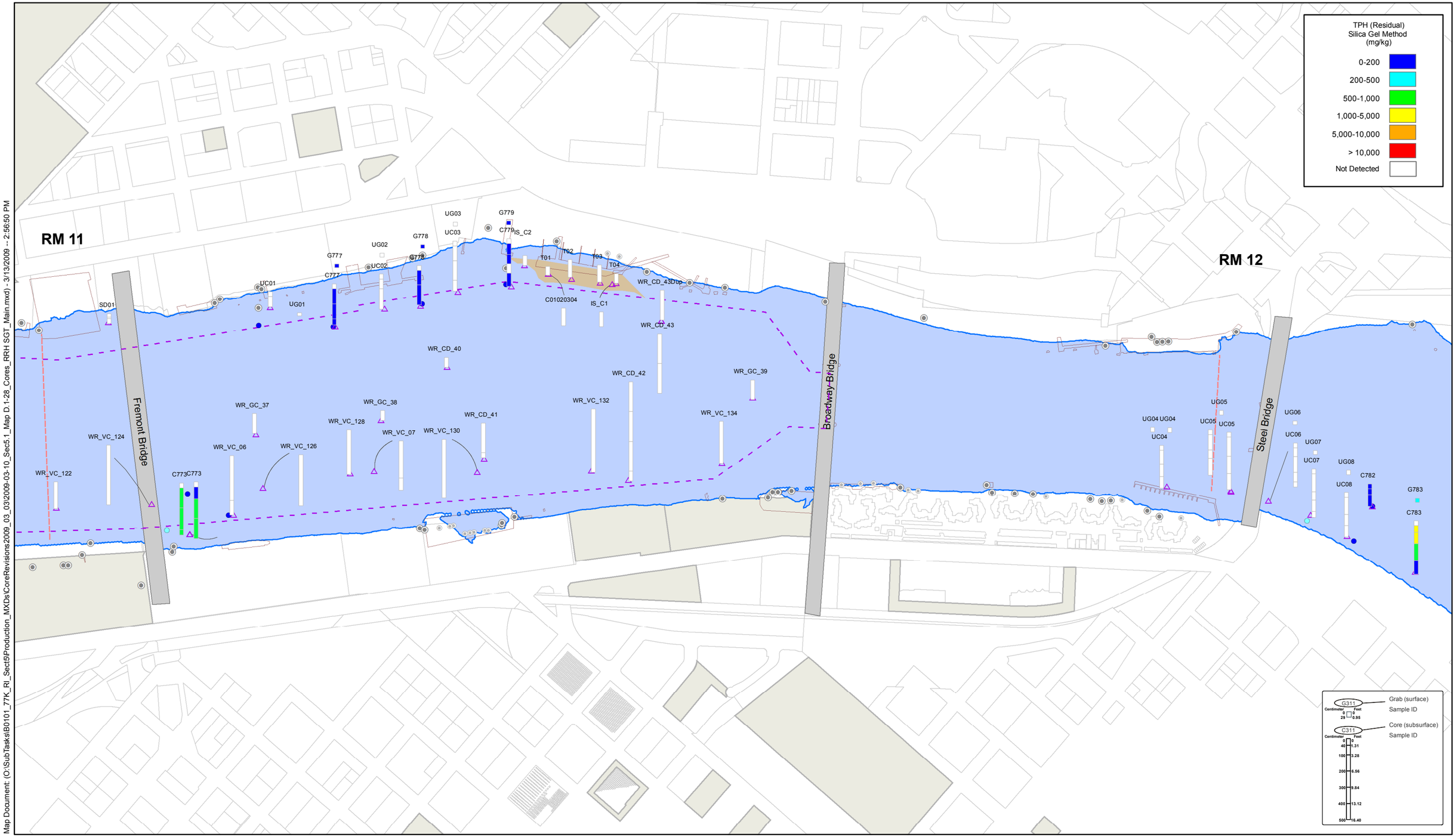
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 10 to 11



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

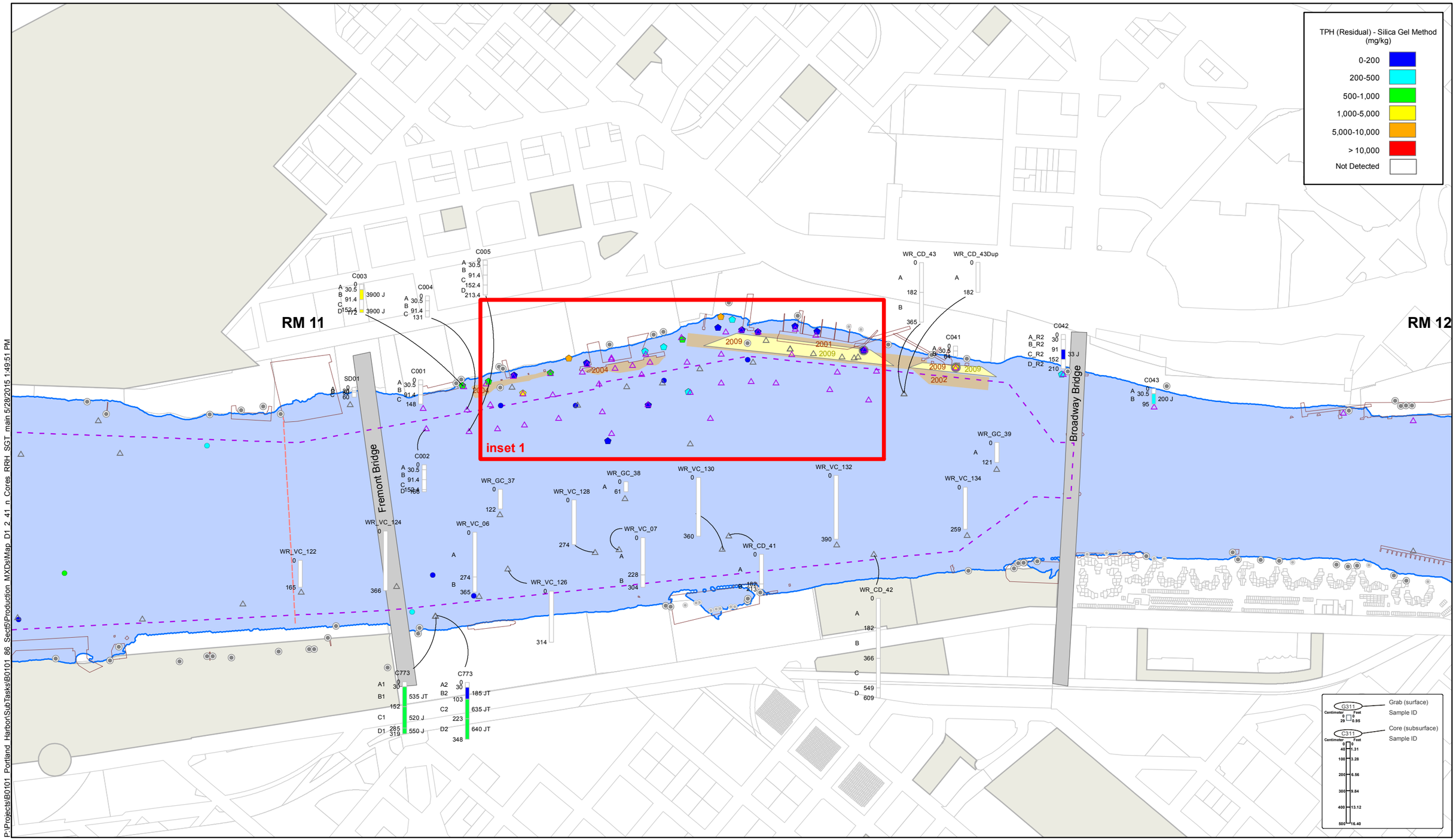
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
River Mile 11 to 12



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

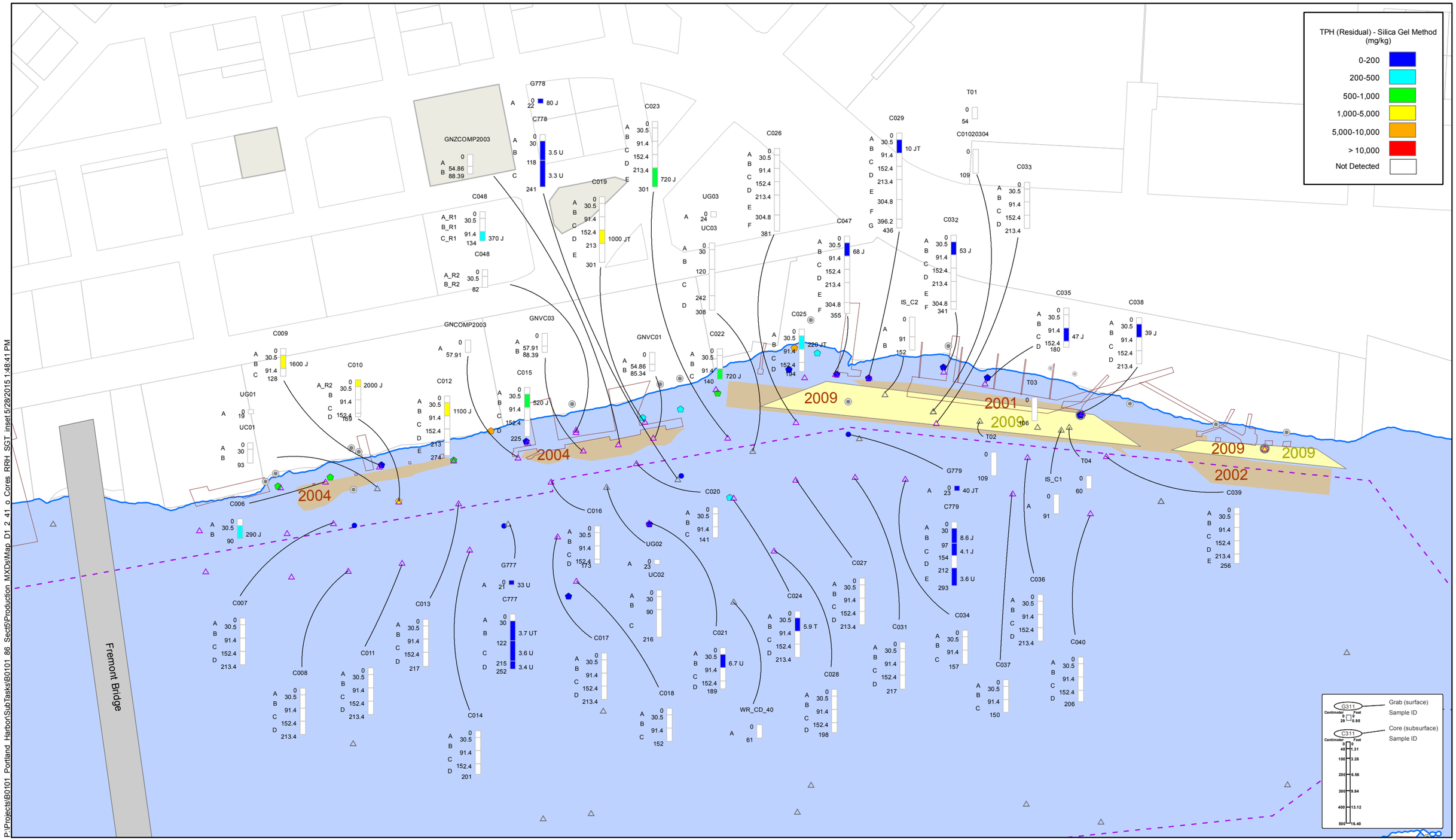
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-41n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)

River Mile 11.0 - 11.8



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

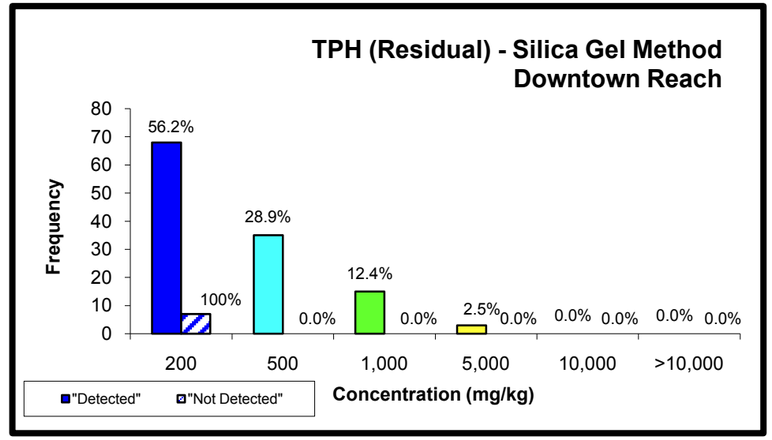
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

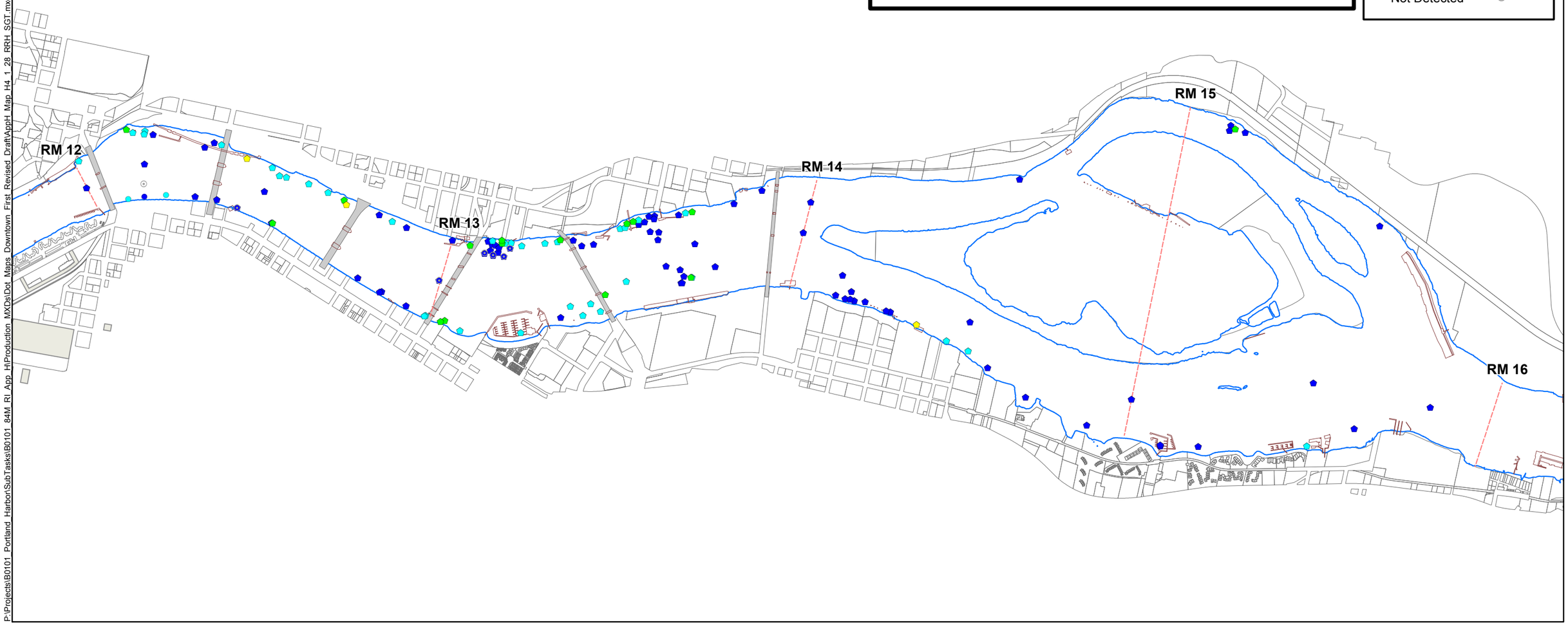
Map D1.2-41o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



TPH (Residual)
Silica Gel Method
(mg/kg)

- 0-200
- 200-500
- 500-1,000
- 1,000-5,000
- 5,000-10,000
- > 10,000
- Detected
- Not Detected



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N

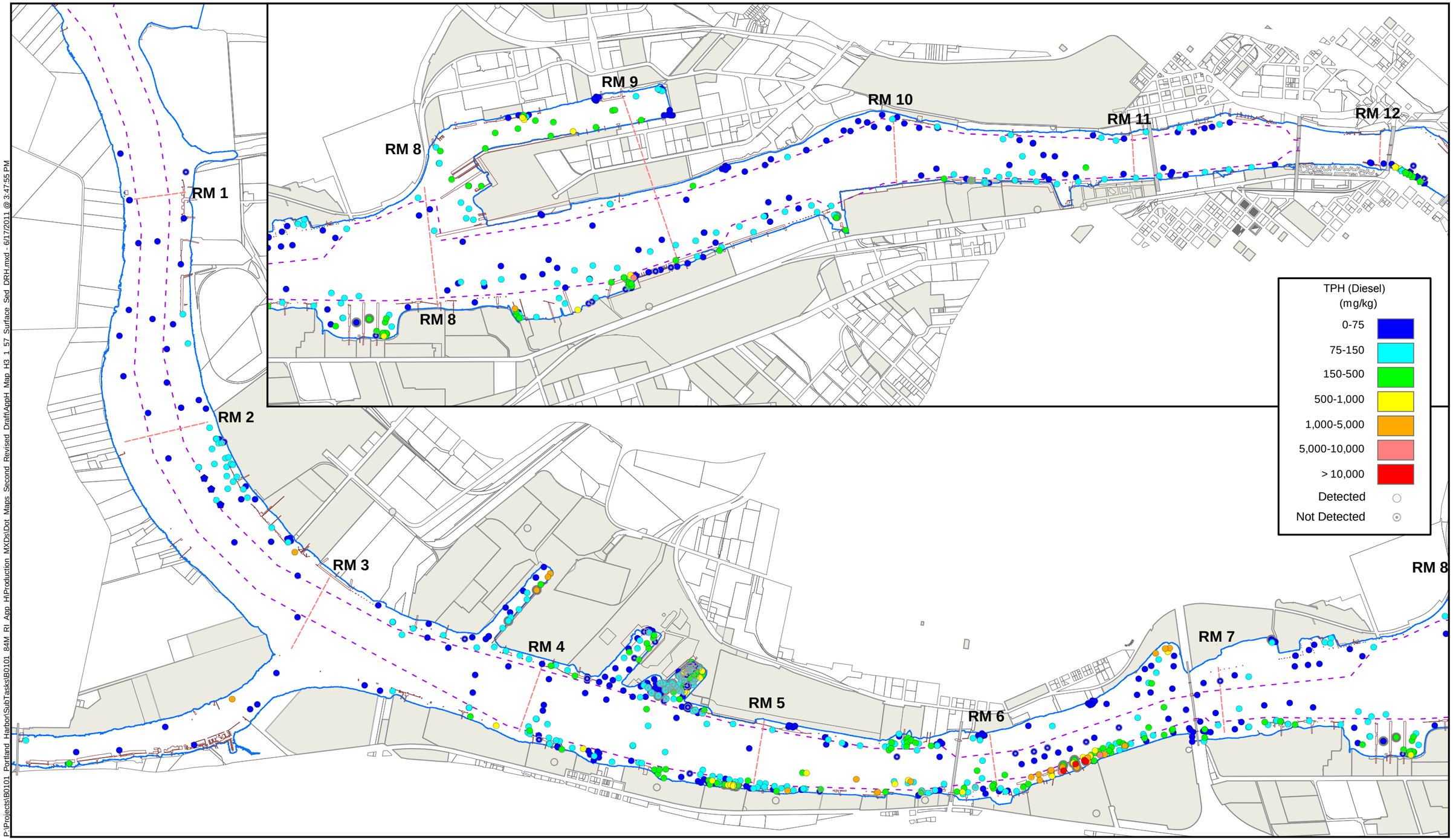
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-42
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Residual) - Silica Gel Method (mg/kg)
Downtown Reach



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N

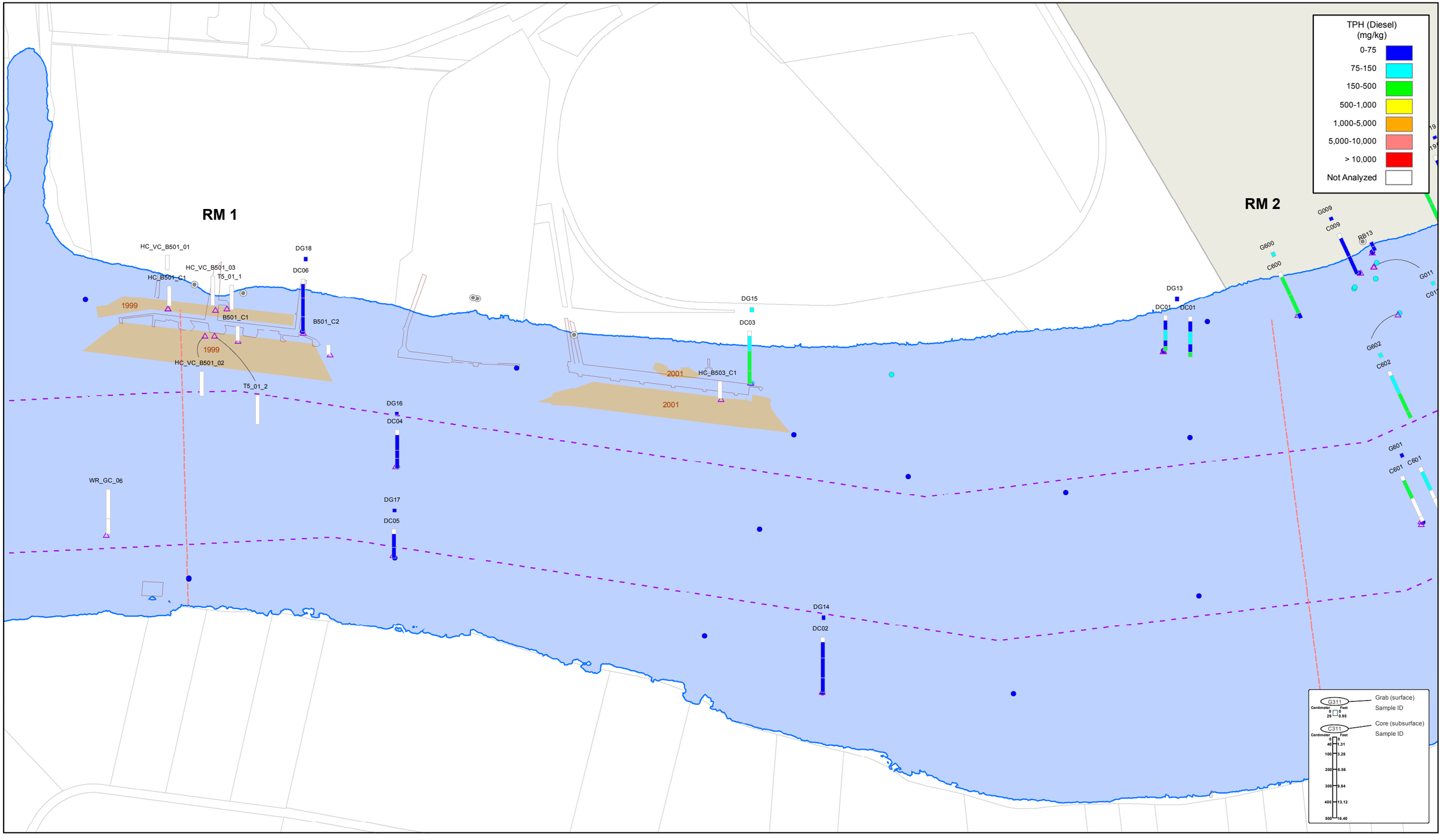
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-43
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Diesel) (mg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

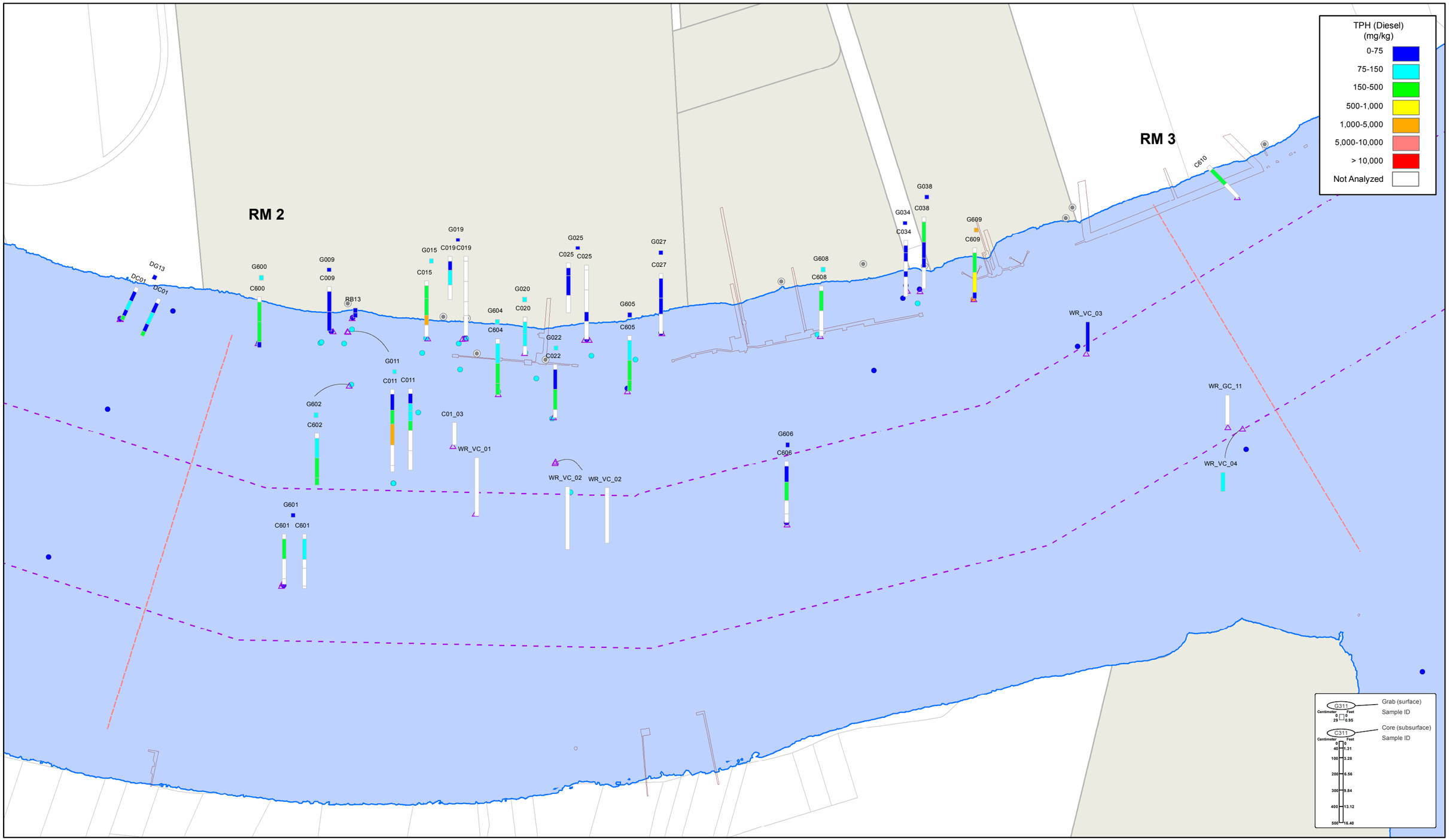
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

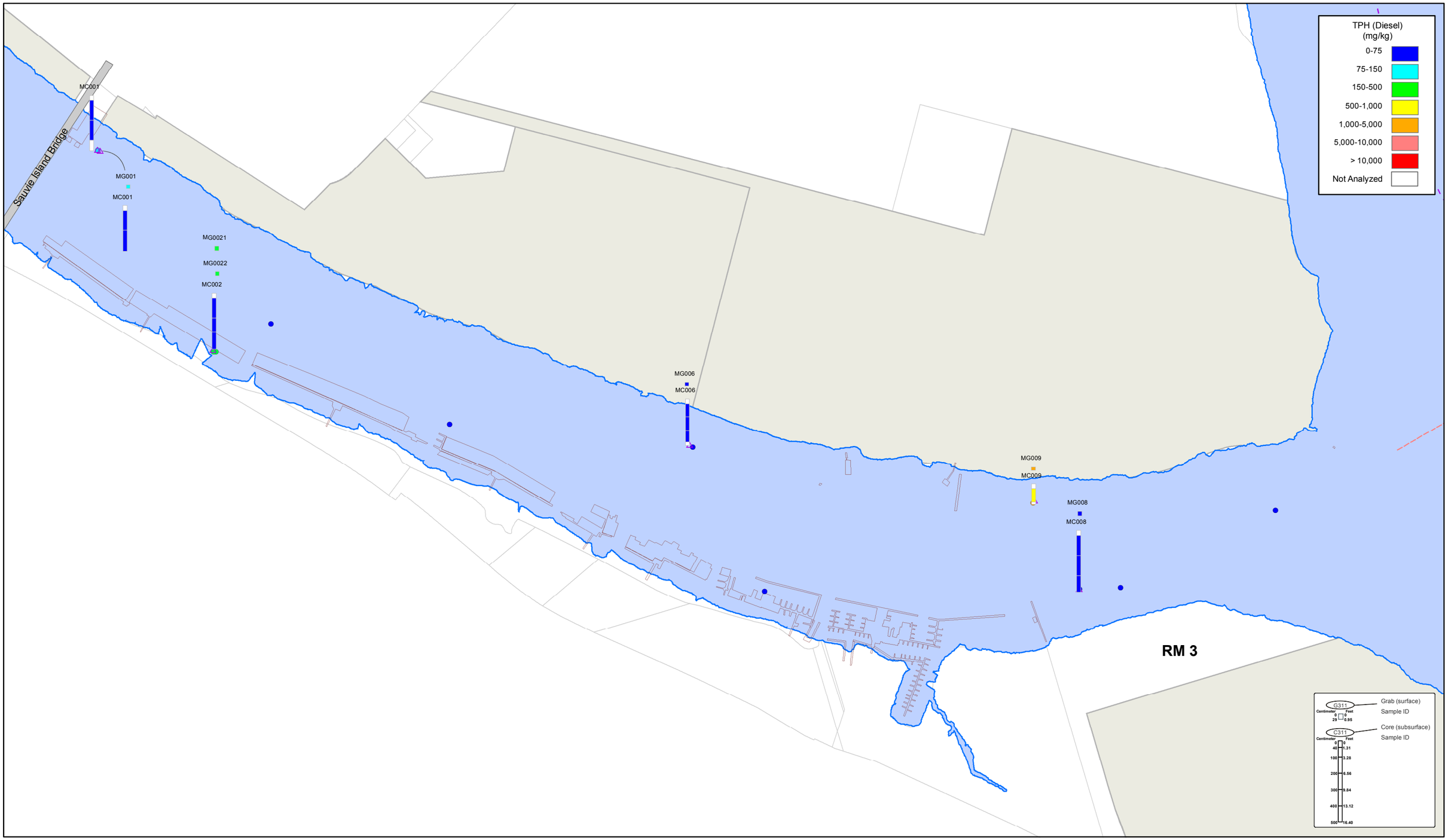
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-30_Cores_DRH NoSGT_Main.mxd) - 3/10/2009 -- 4:23:15 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

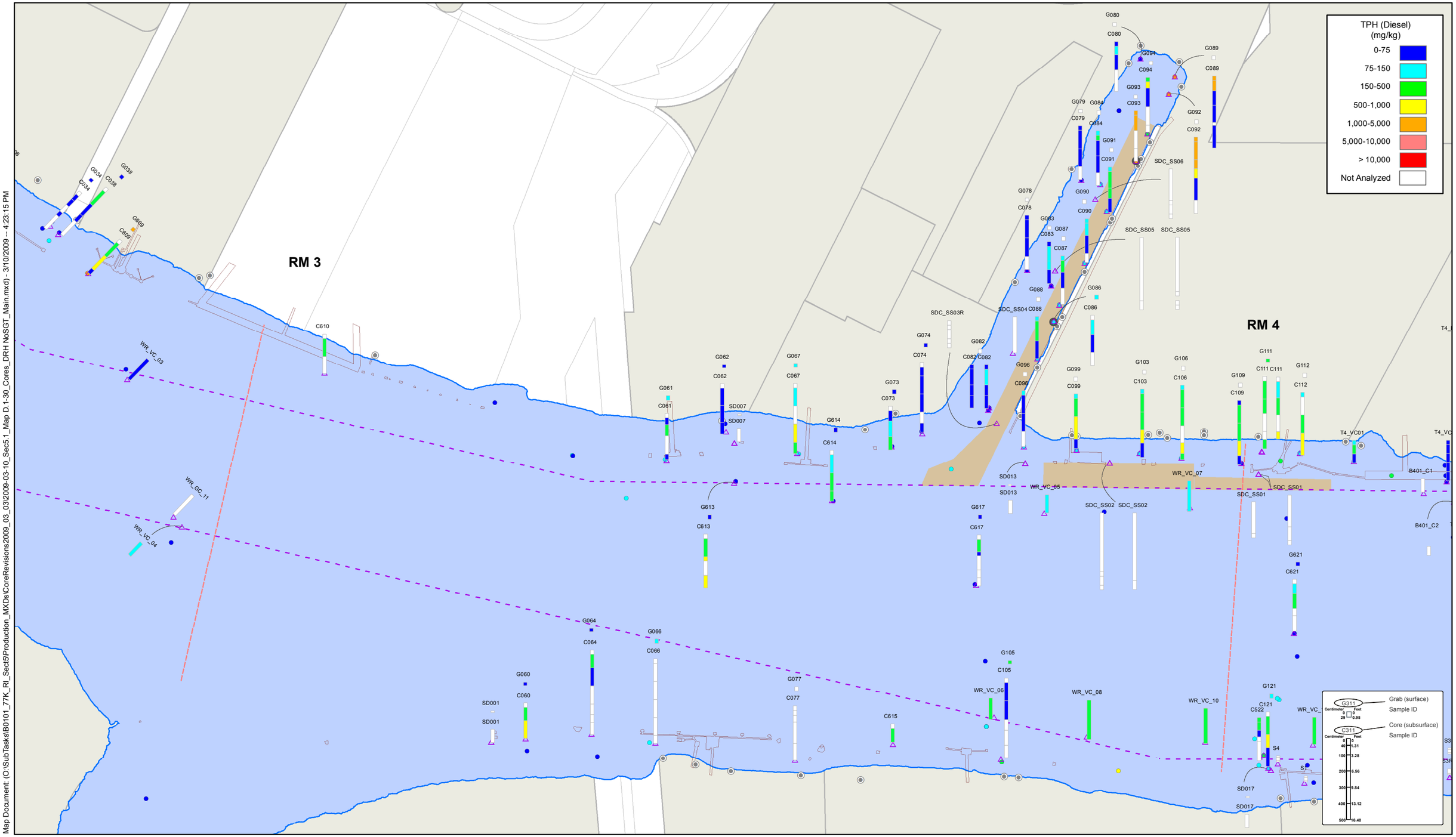
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

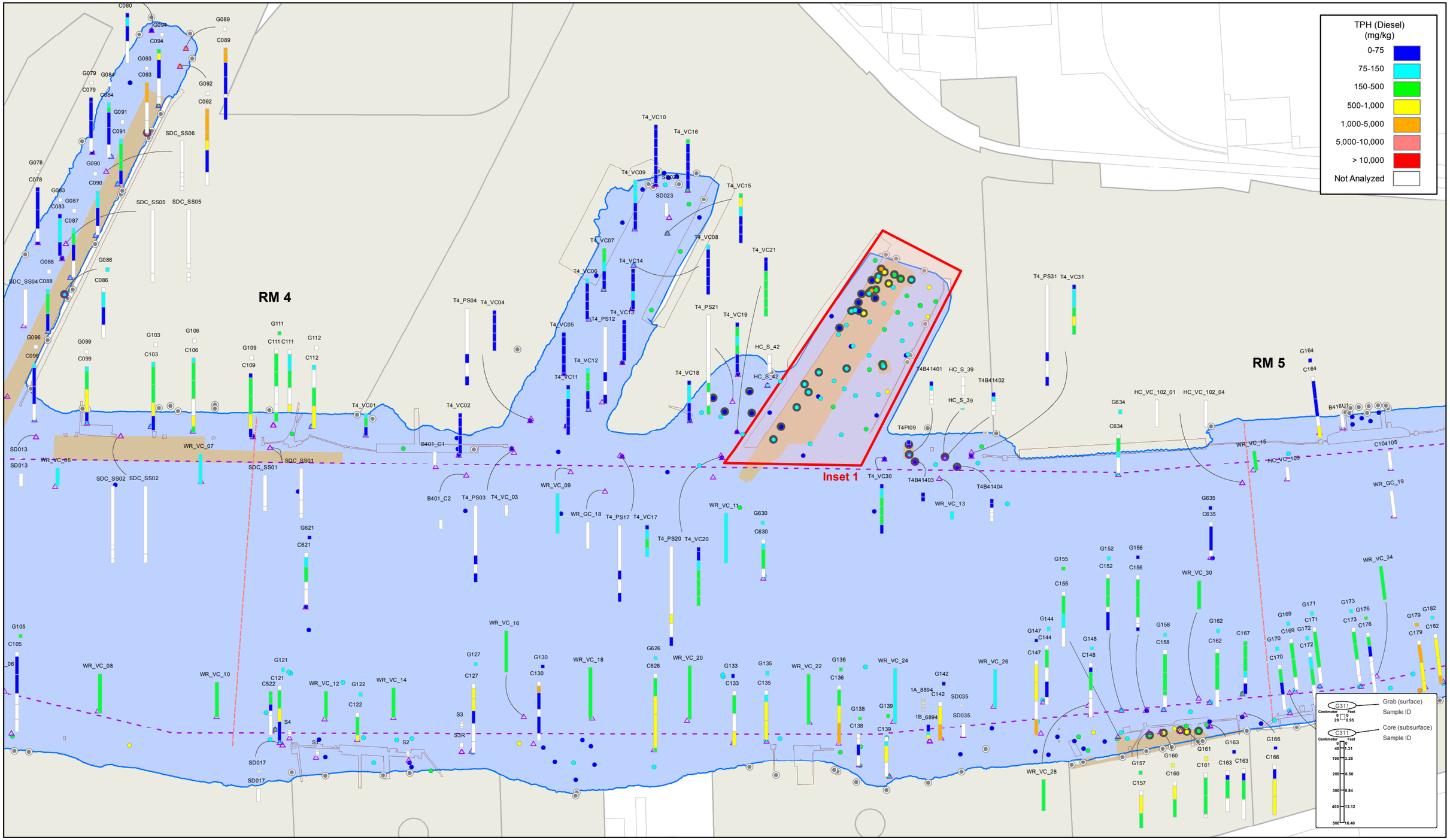
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 03 to 04



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

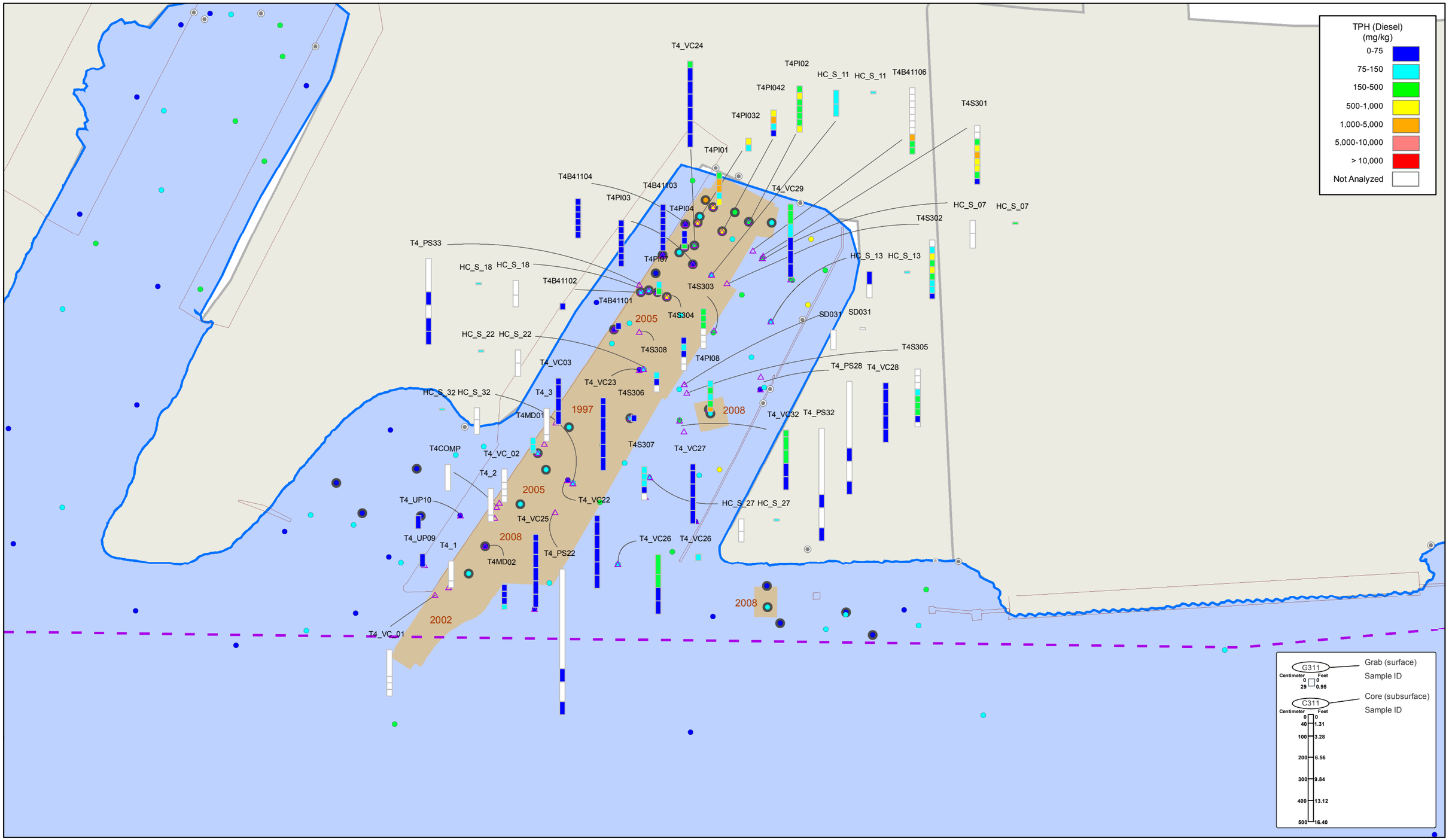
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 04 to 05 - Slips



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

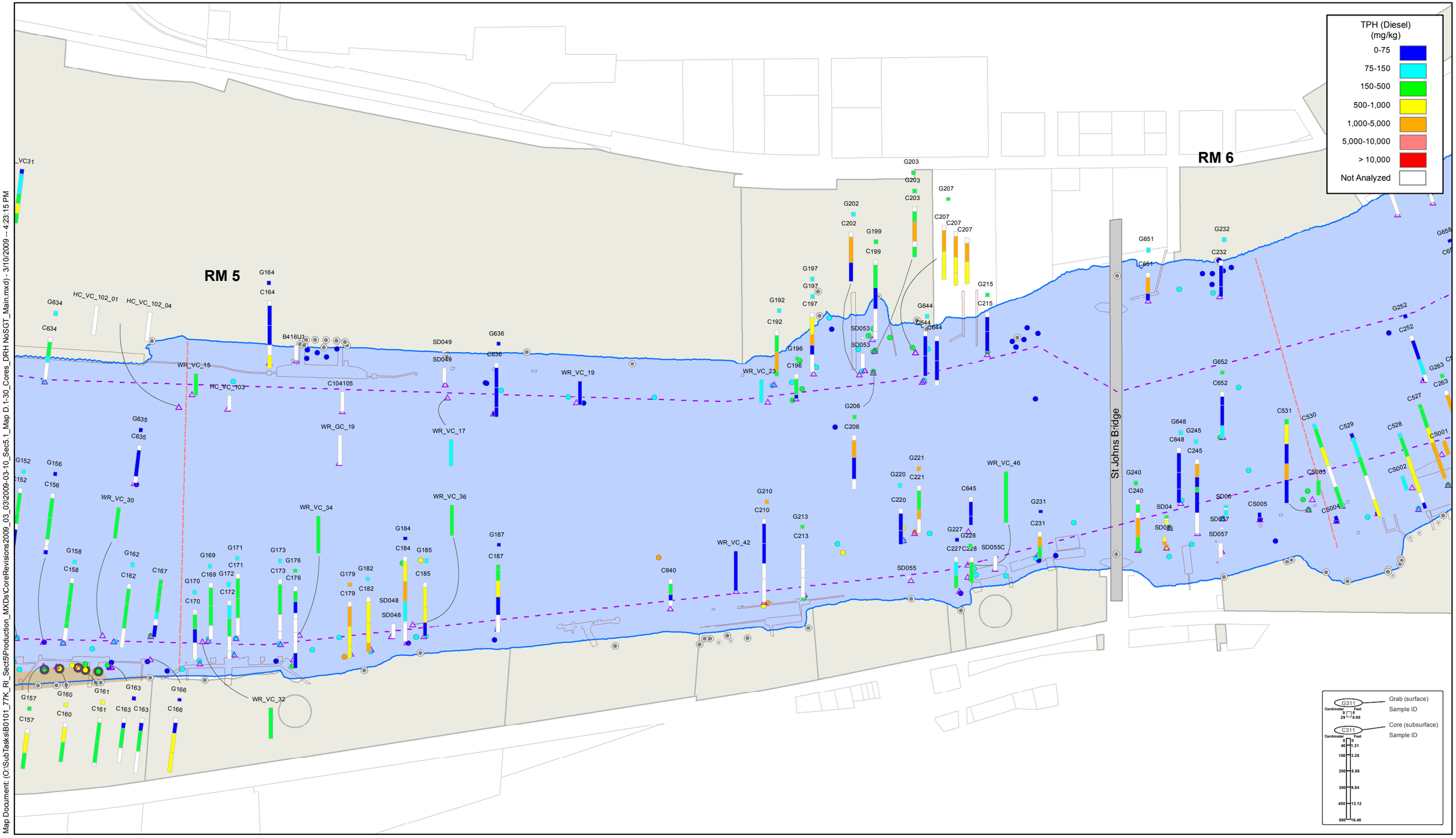
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

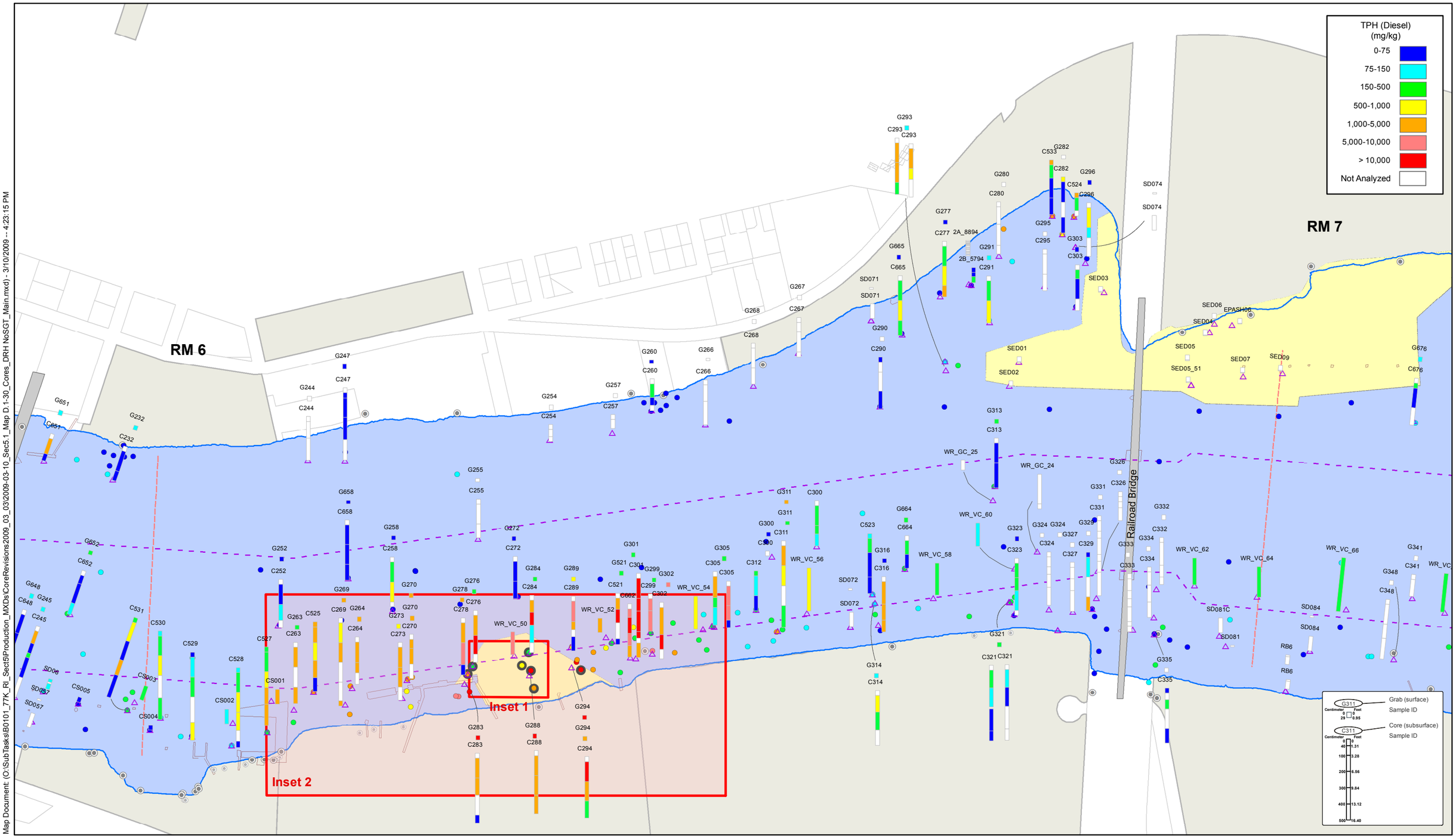
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

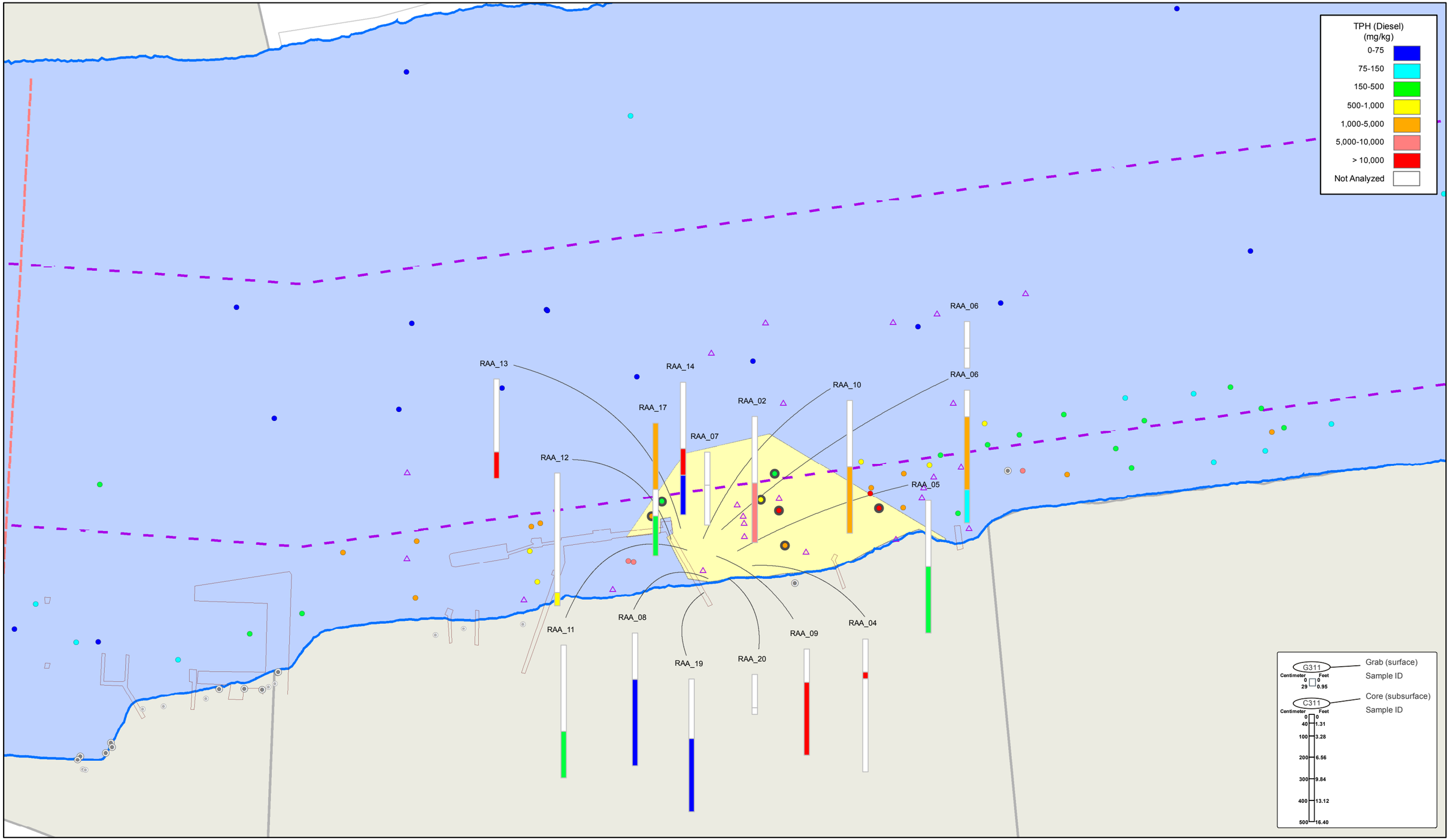
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

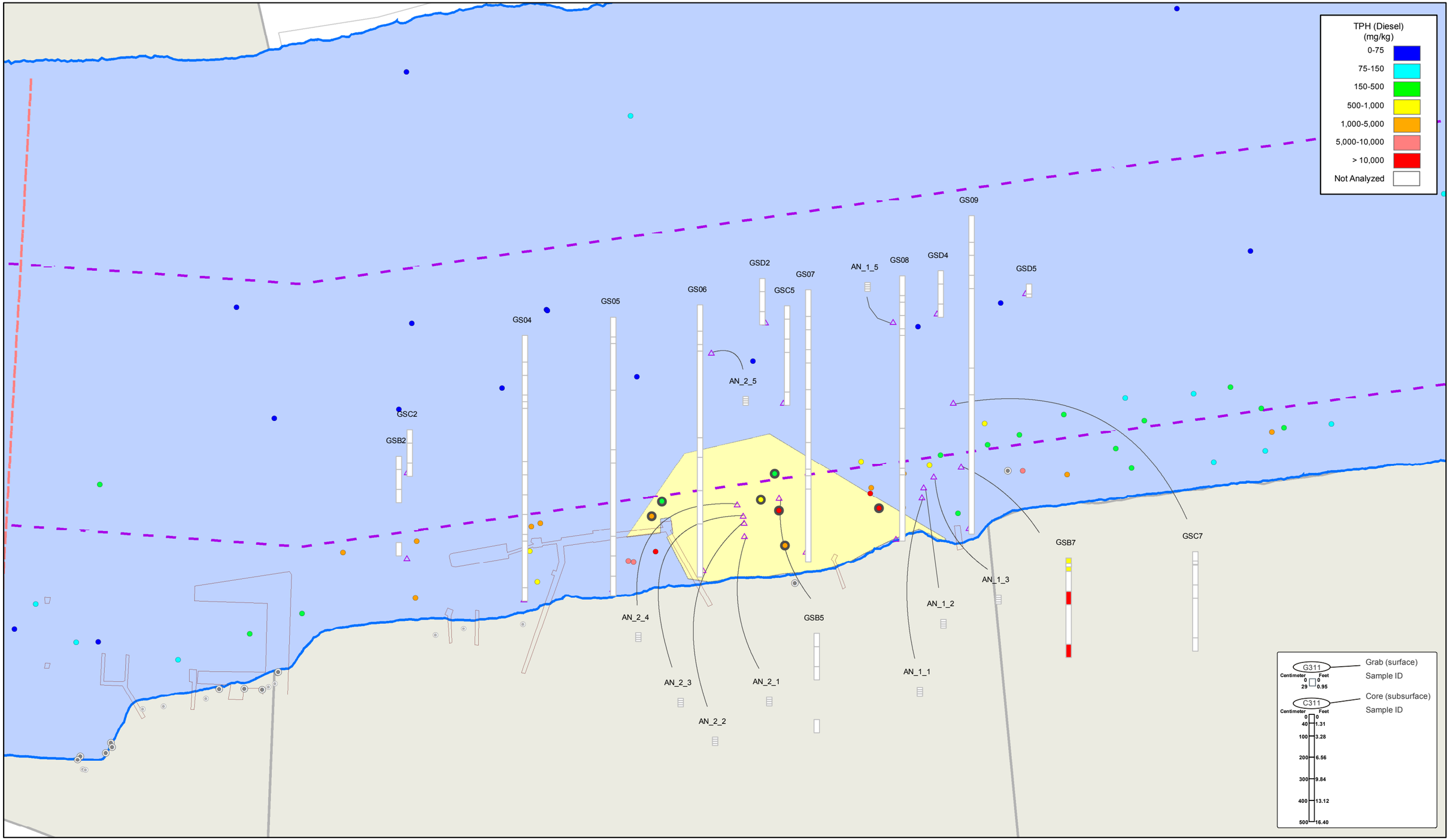
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

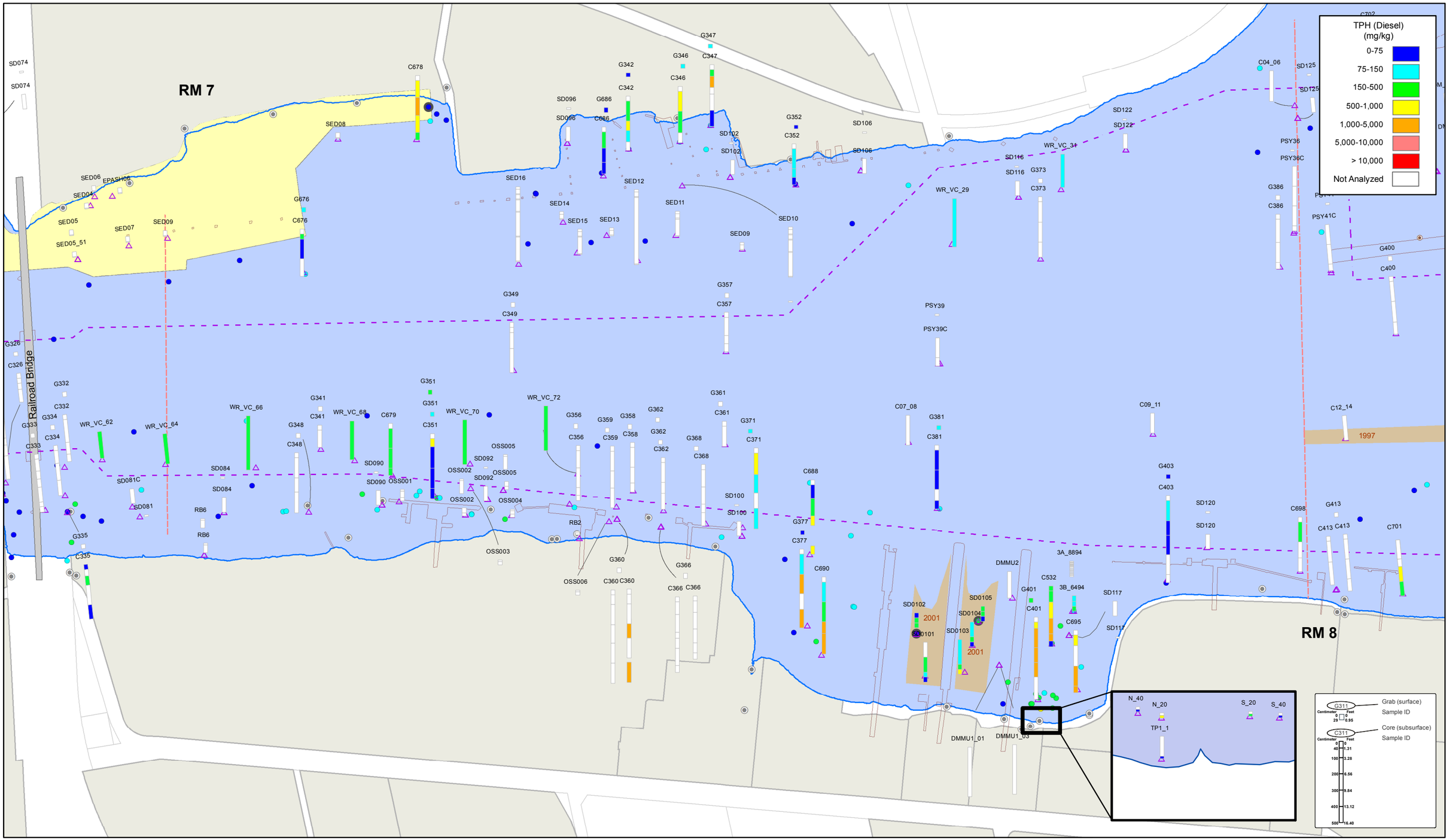
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

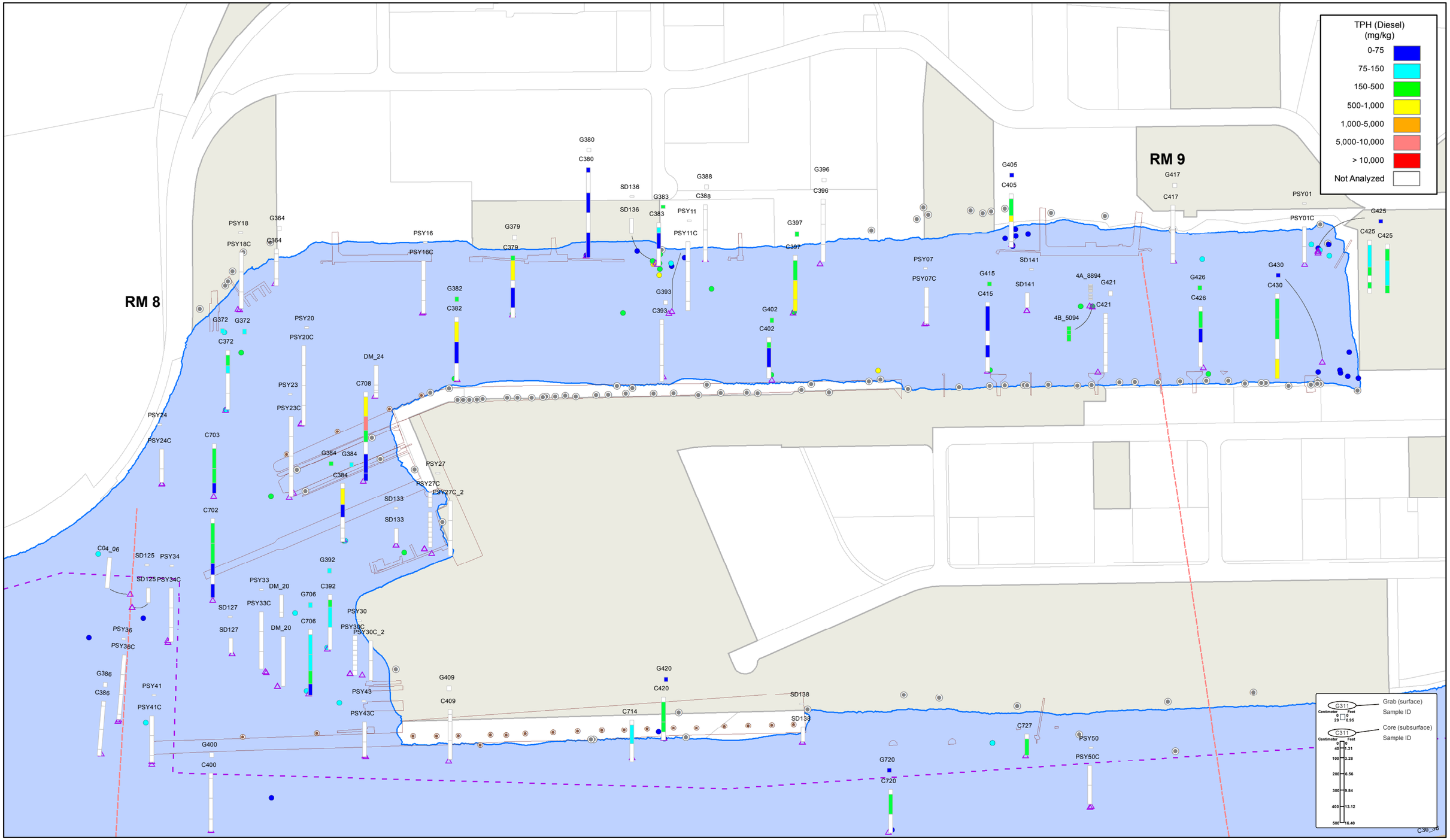
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

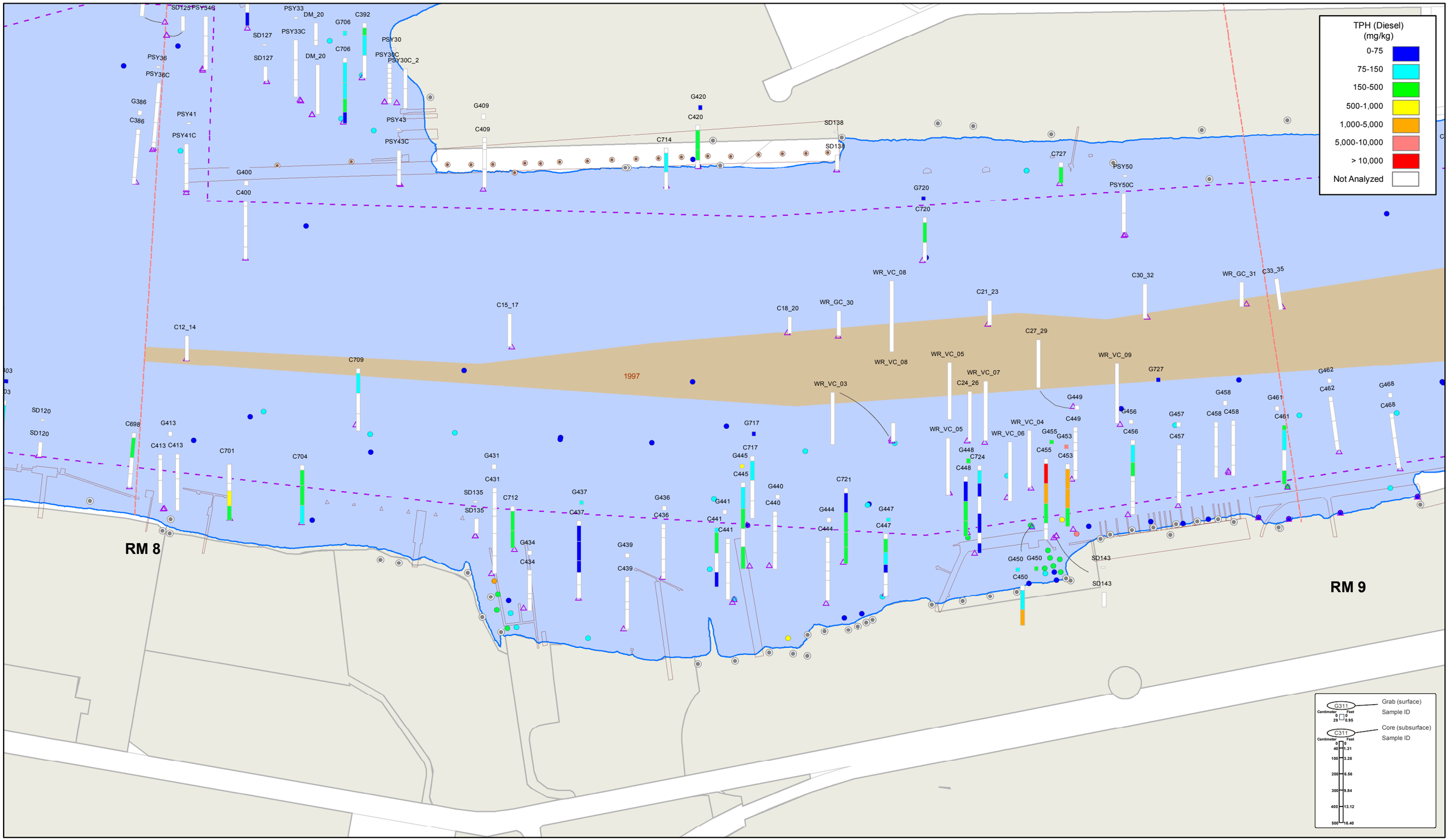
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

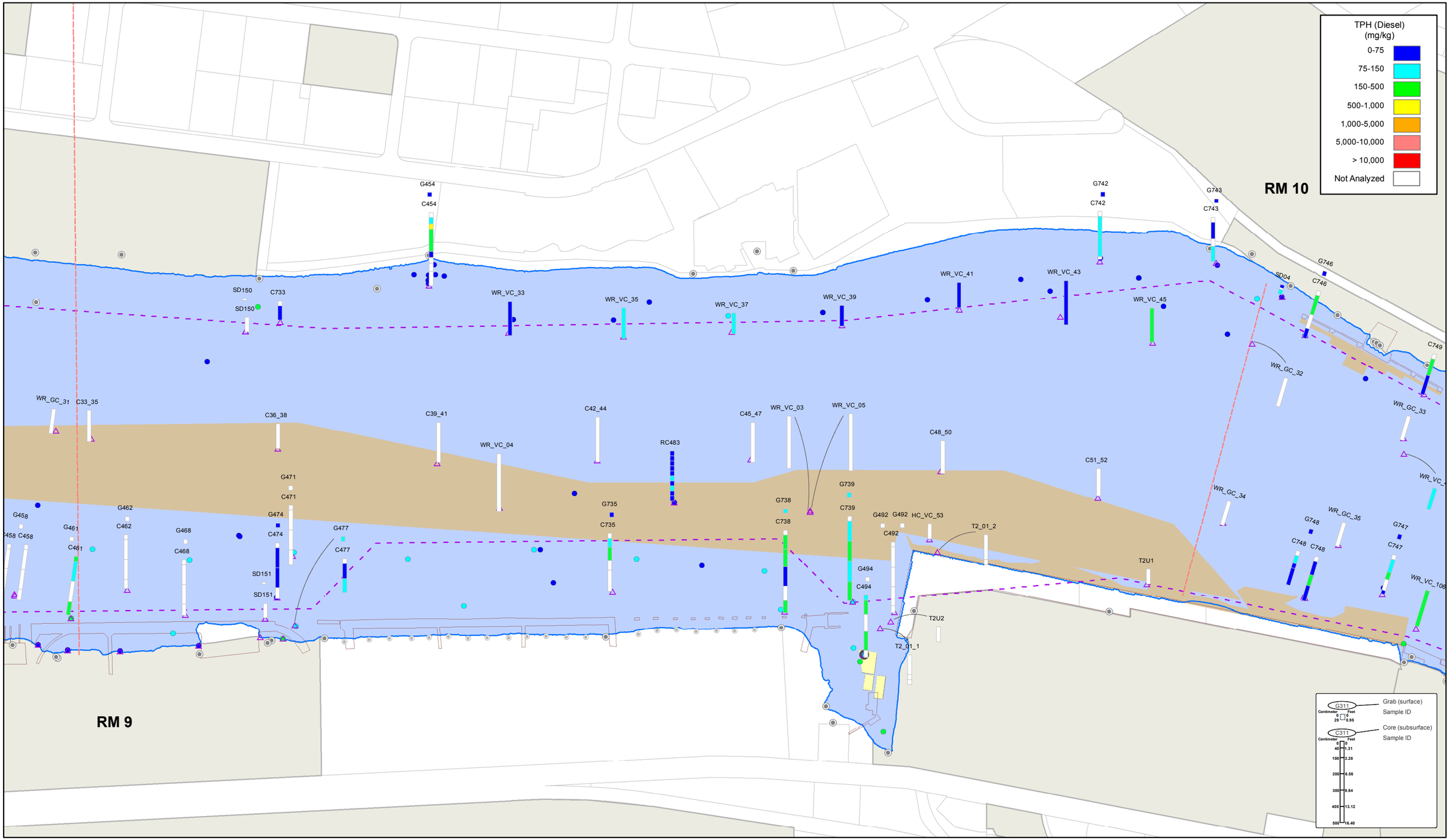
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

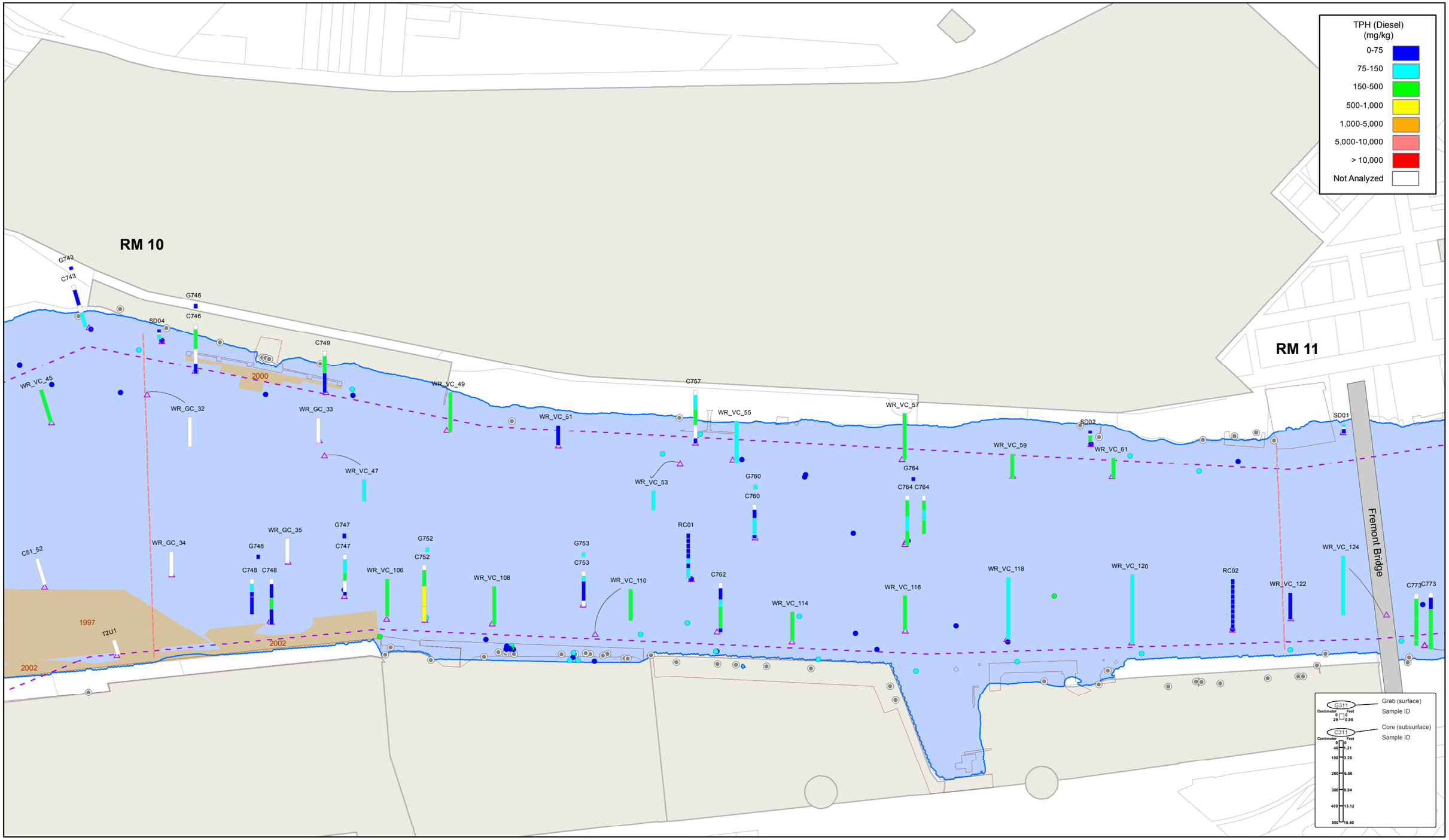
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 09 to 10



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

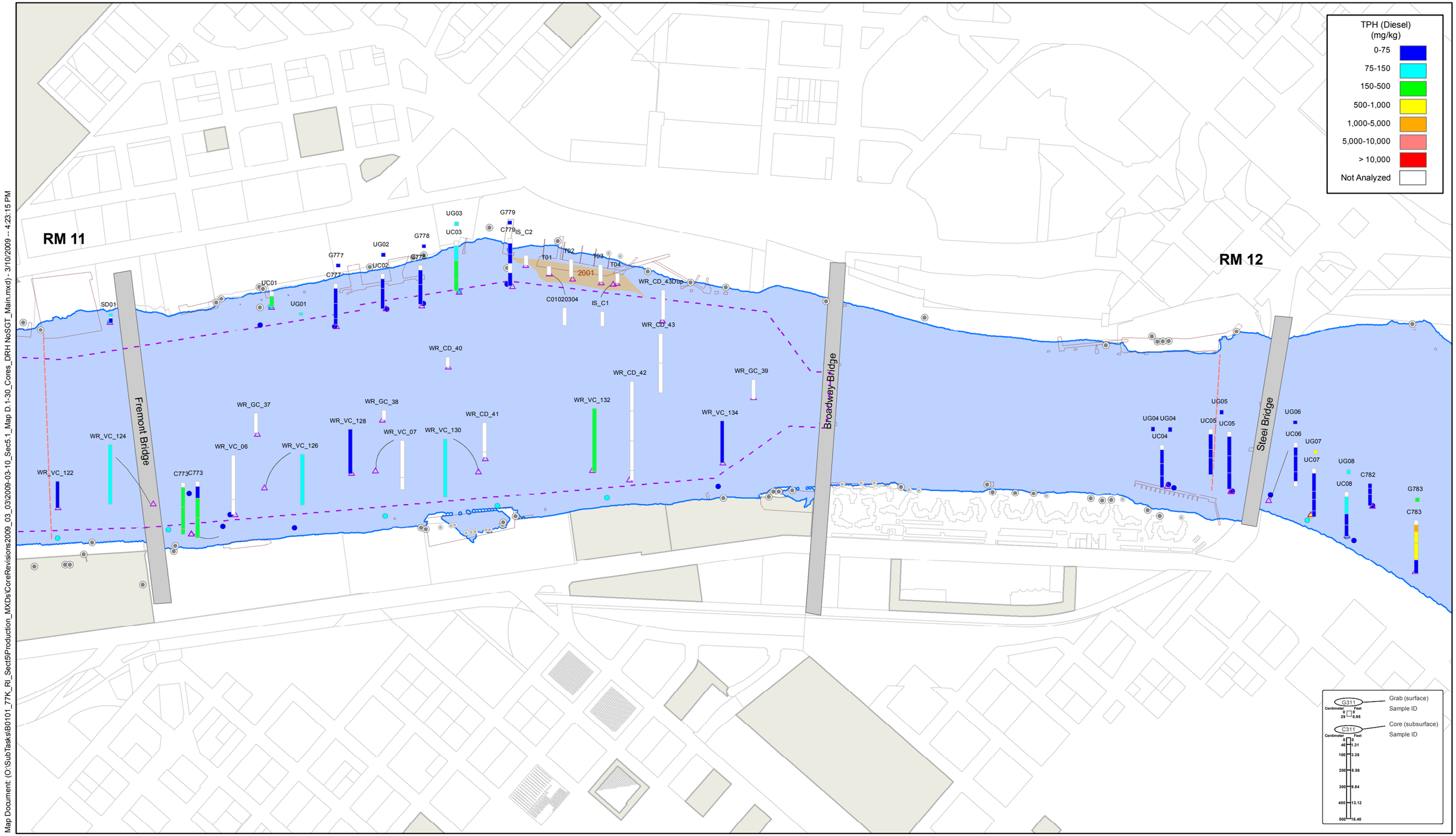
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 10 to 11

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-30_Cores_DRH NoSGT_Main.mxd) - 3/10/2009 -- 4:23:15 PM



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

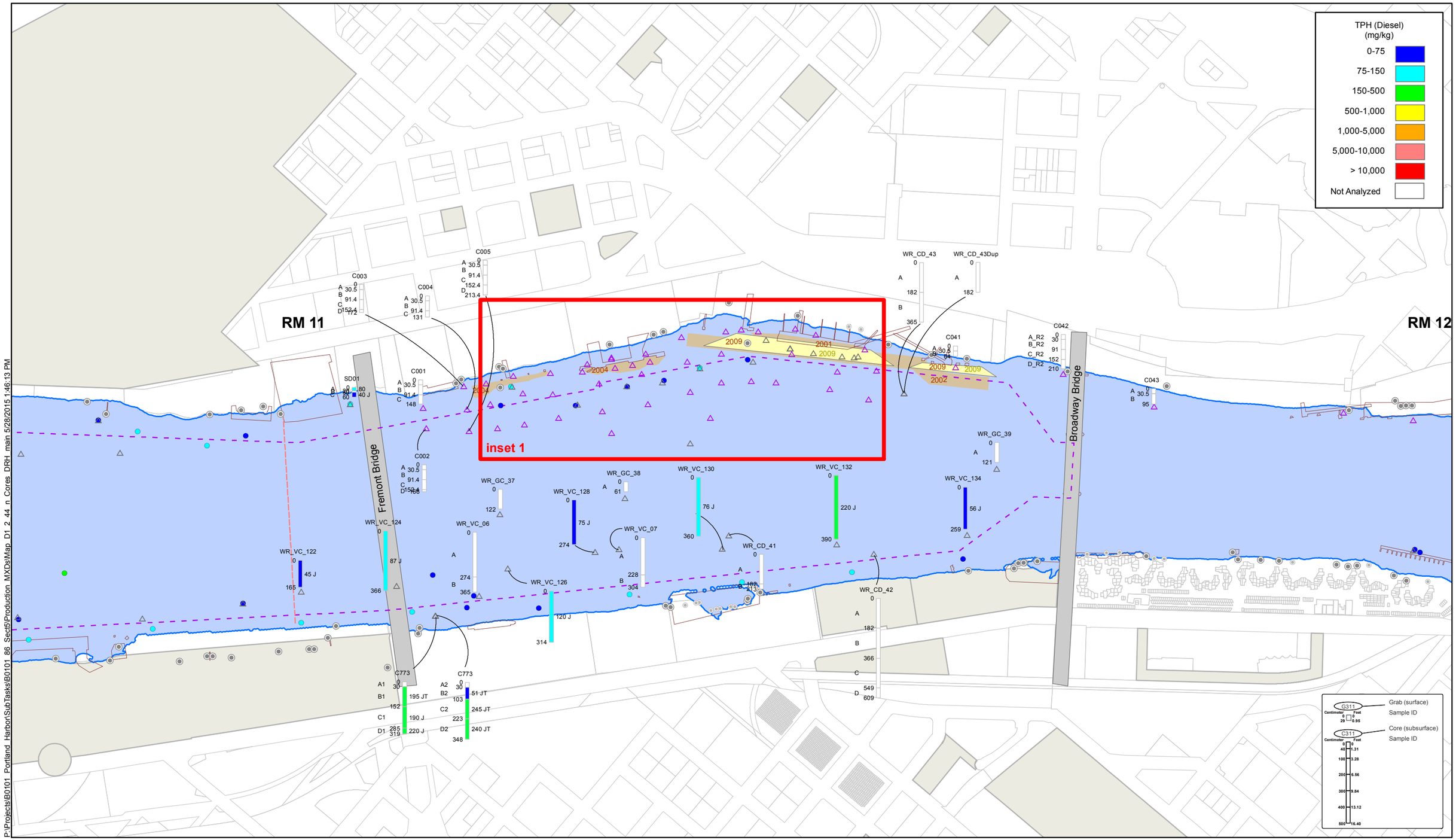
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)
River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)

River Mile 11.0 - 11.8

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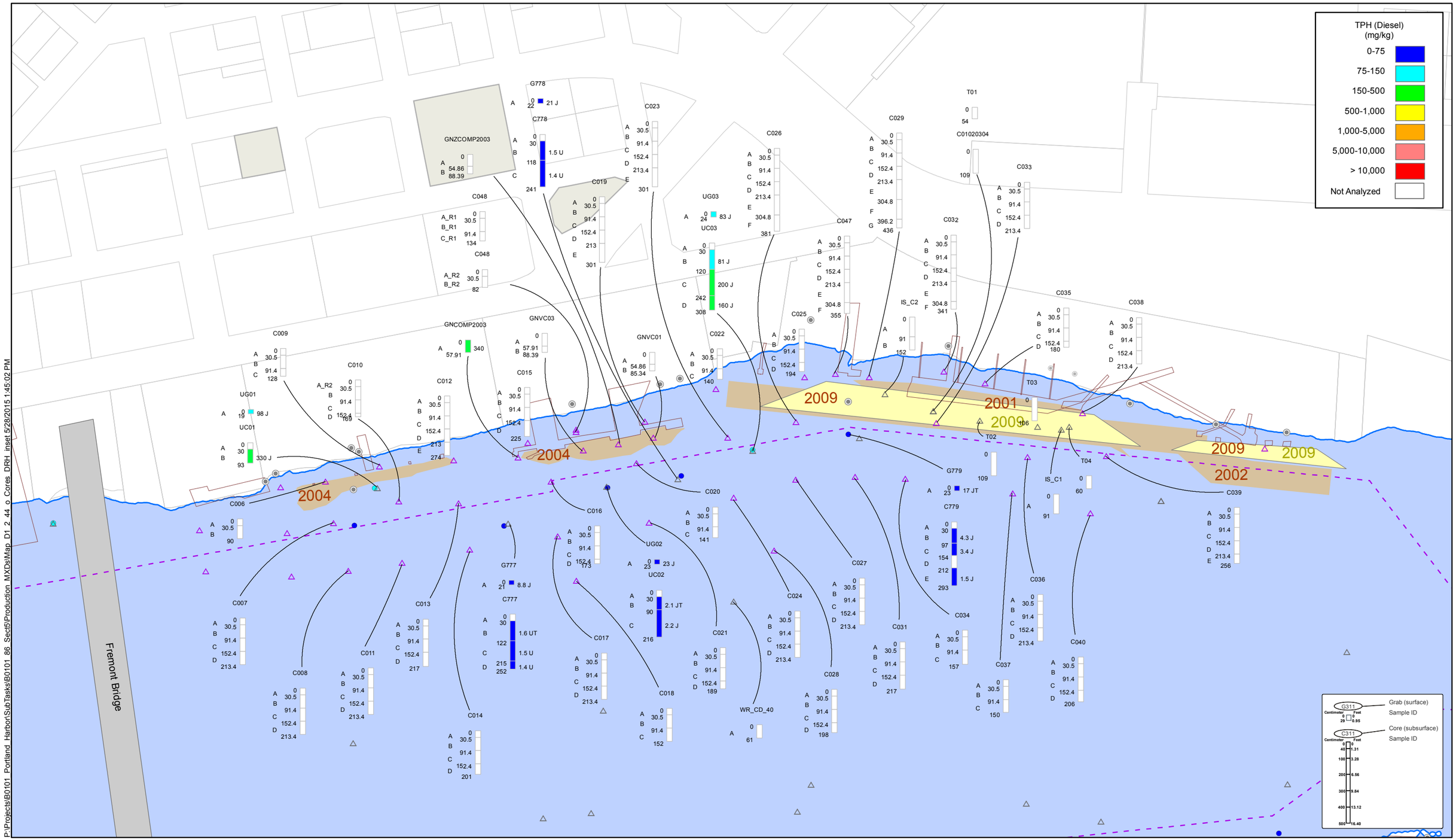

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

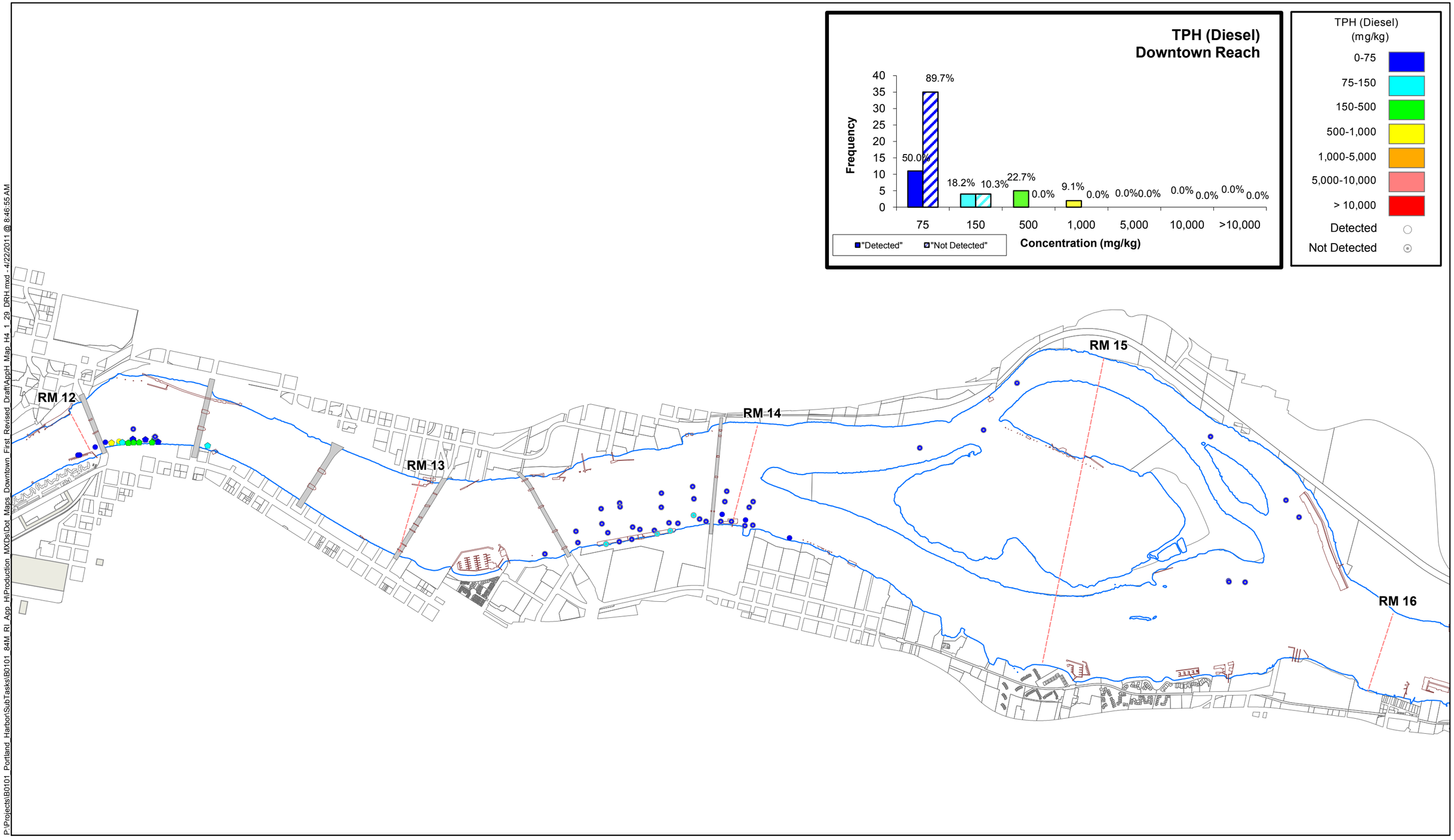
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-44o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



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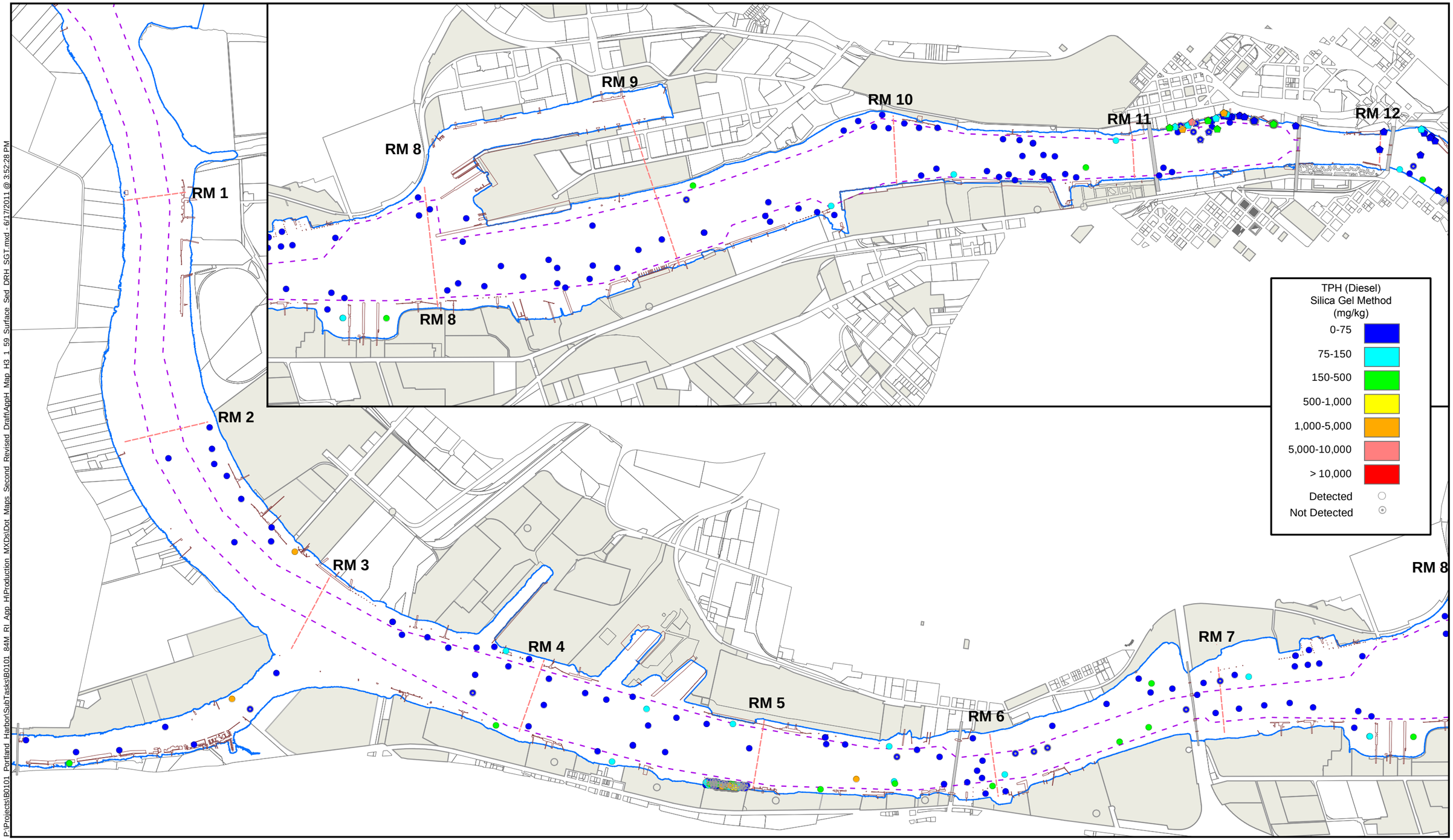
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-45
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Diesel) (mg/kg)
Downtown Reach



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

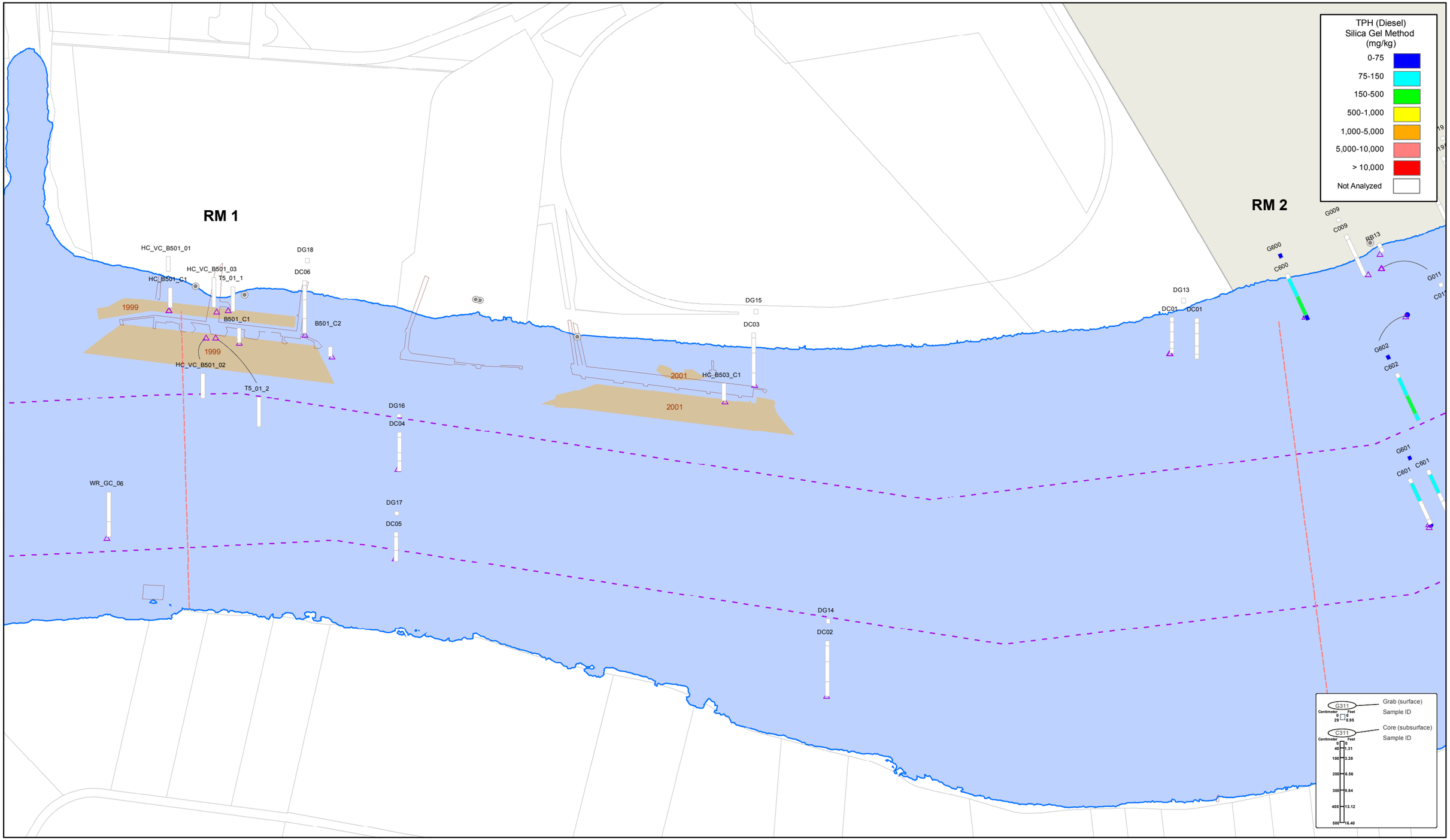
N

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-46
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-30_Cores_DRH SGT_Main.mxd) - 3/11/2009 -- 11:31:03 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

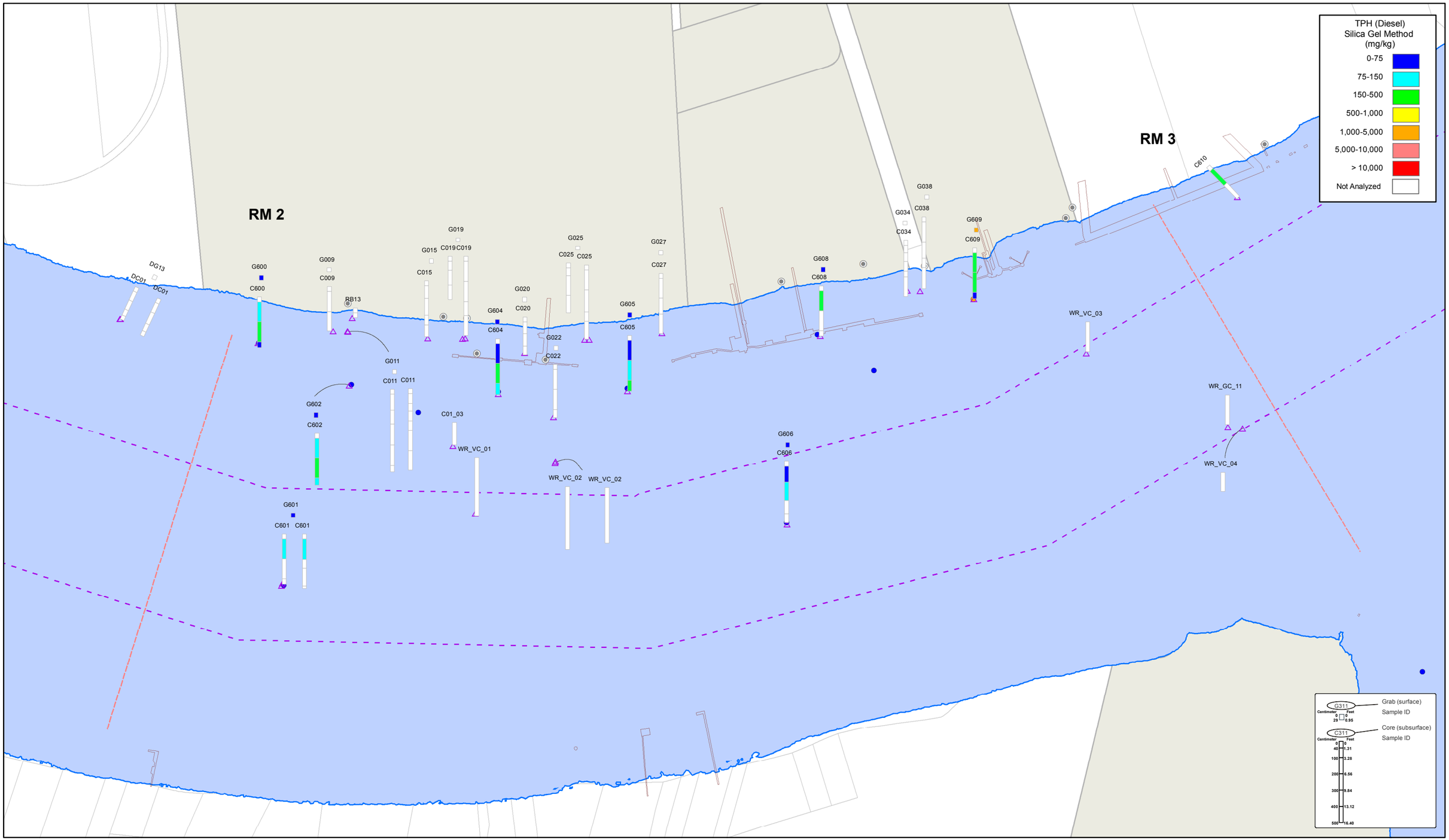
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 01 to 02



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-30_Cores_DRH SGT_Main.mxd) - 3/11/2009 -- 11:31:03 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

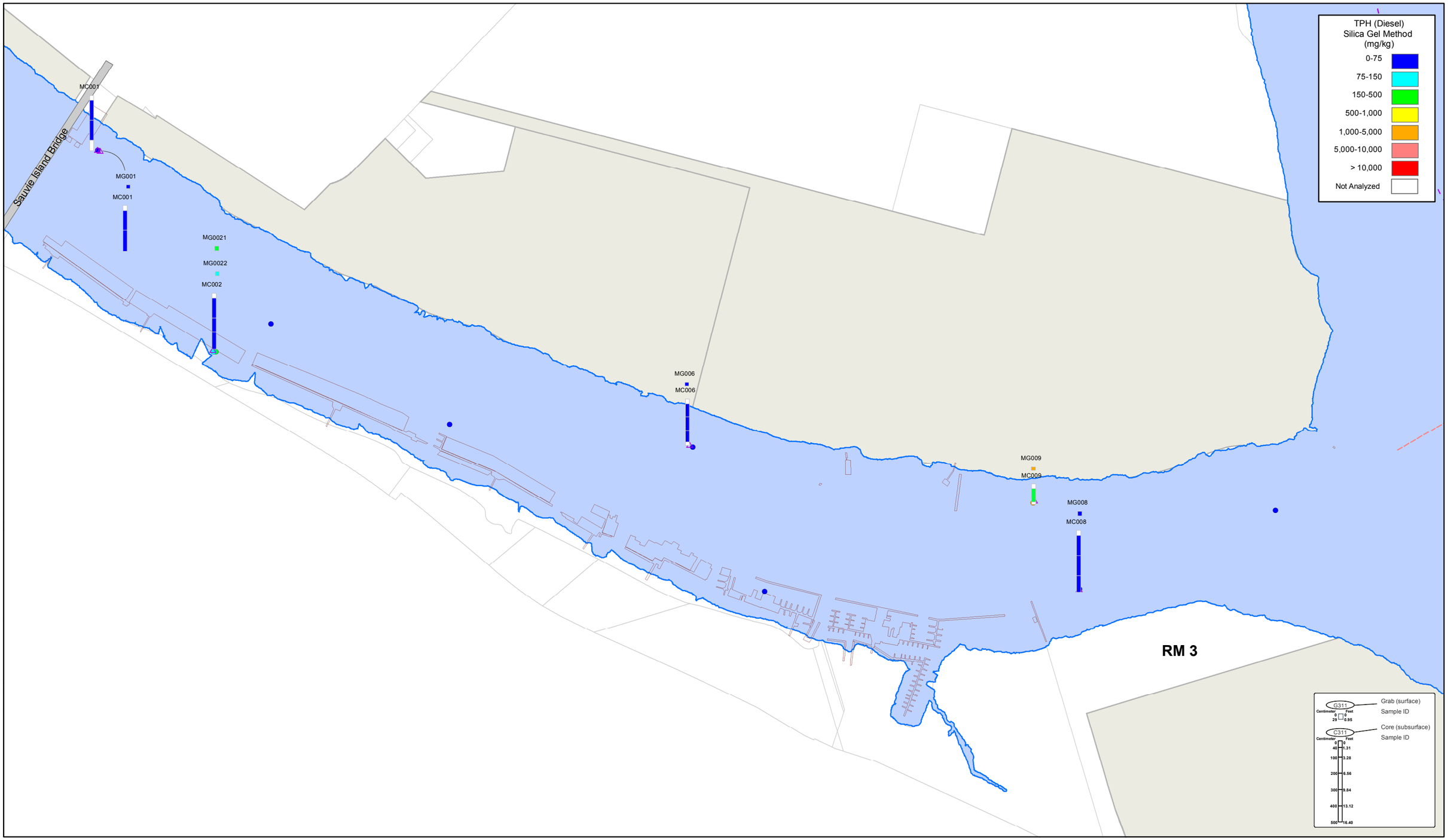
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-30_Cores_DRH SGT_Main.mxd) - 3/11/2009 -- 11:31:03 AM



FEATURE SOURCES:
Transportation, Property, and Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

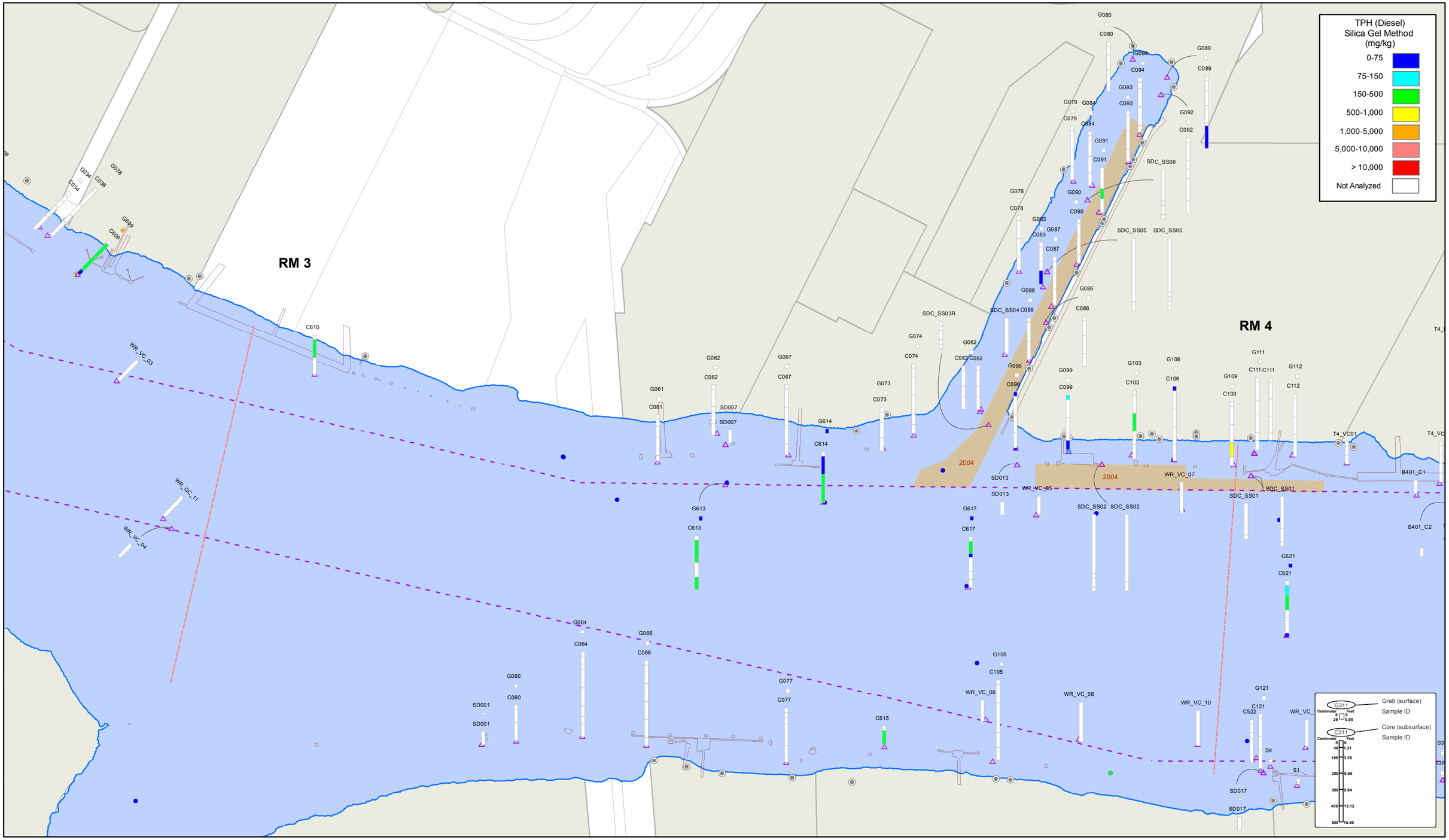
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

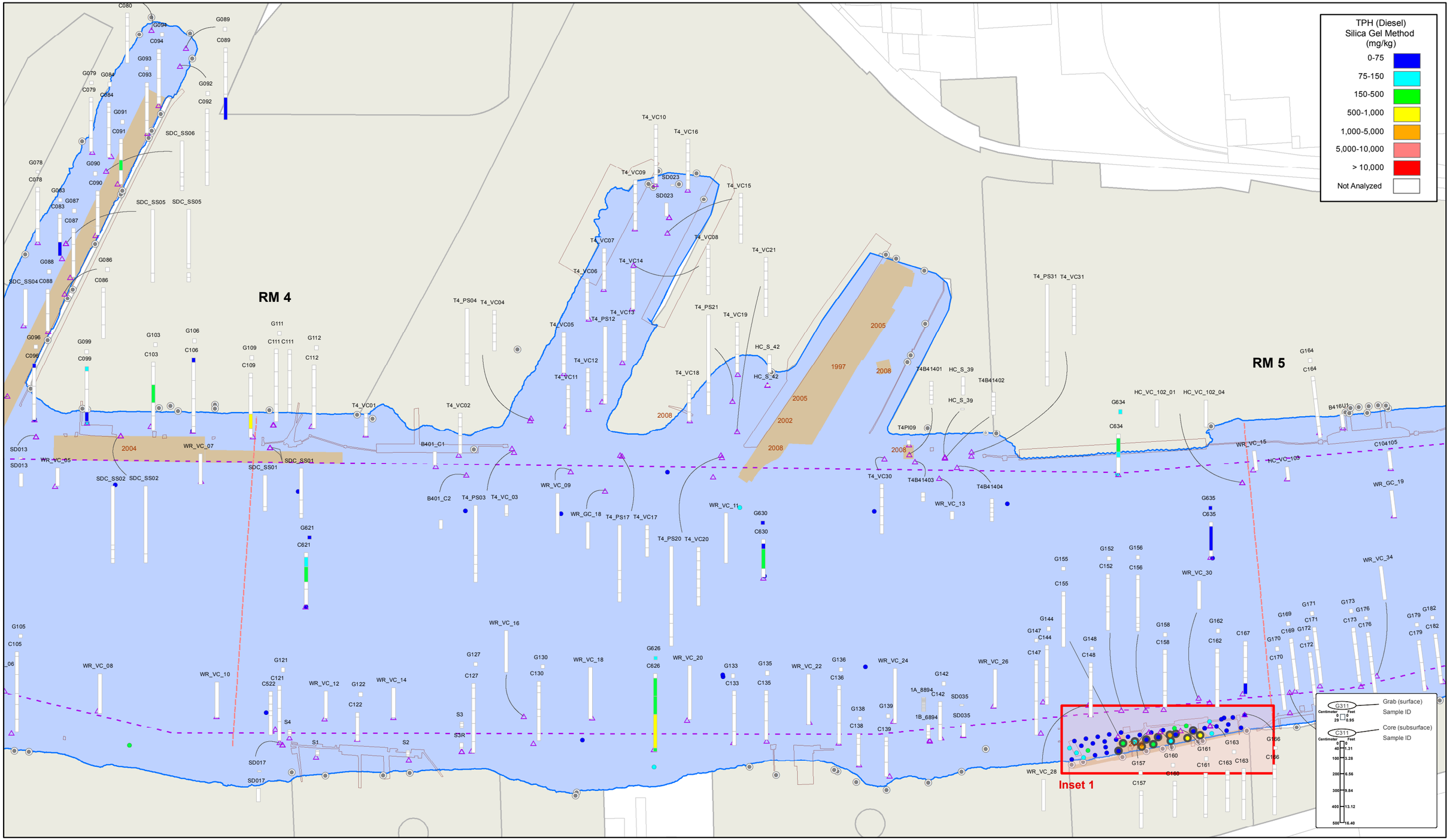
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 03 to 04



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-30_Cores_DRH SGT_Main.mxd) - 3/11/2009 -- 11:31:03 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

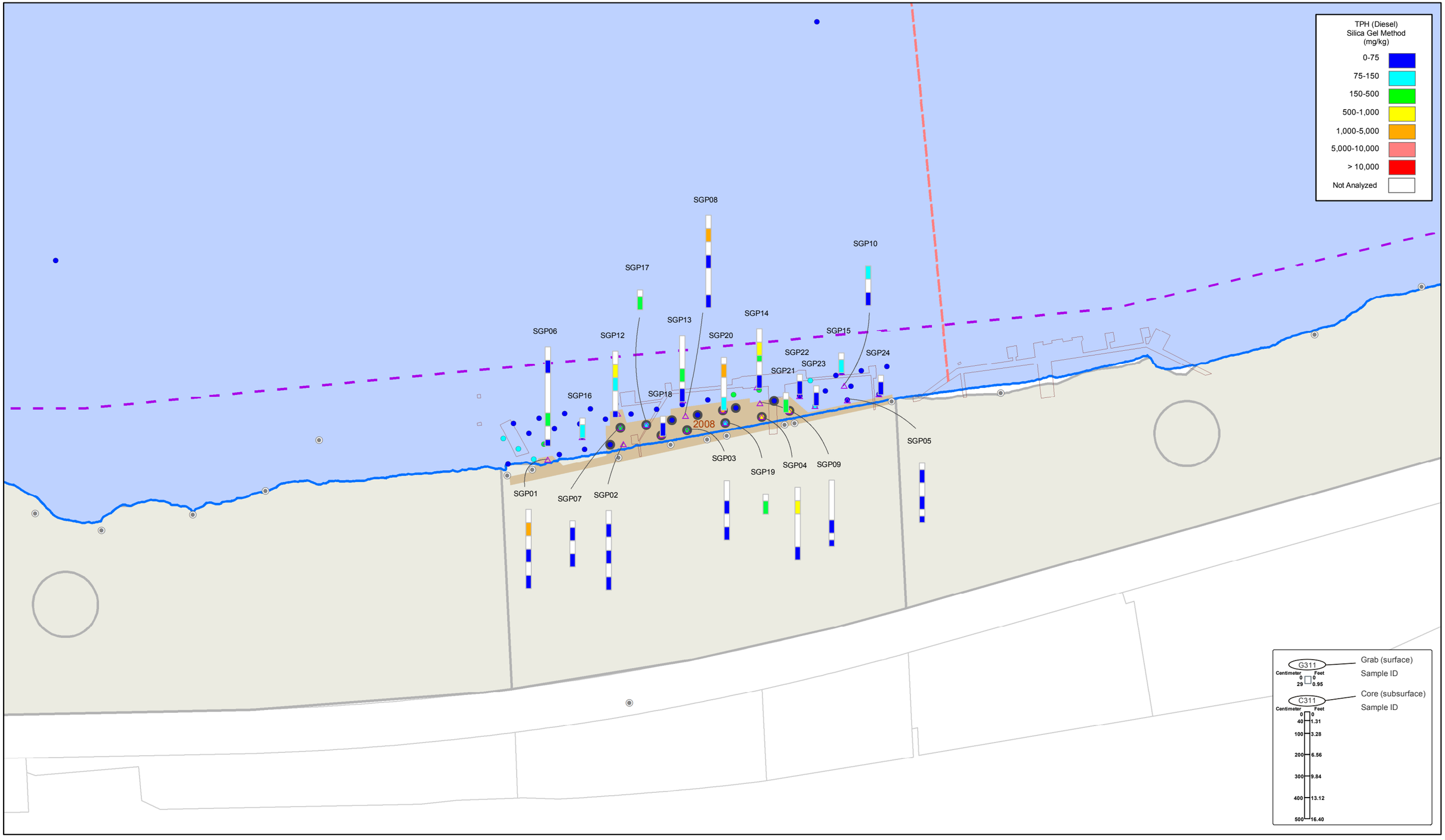
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 04 to 05 - Slips



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-11_Sec5.1_Map D.1-30_Cores_DRH SGT_Insets.mxd) - 3/11/2009 -- 11:36:02 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 115 230 460 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

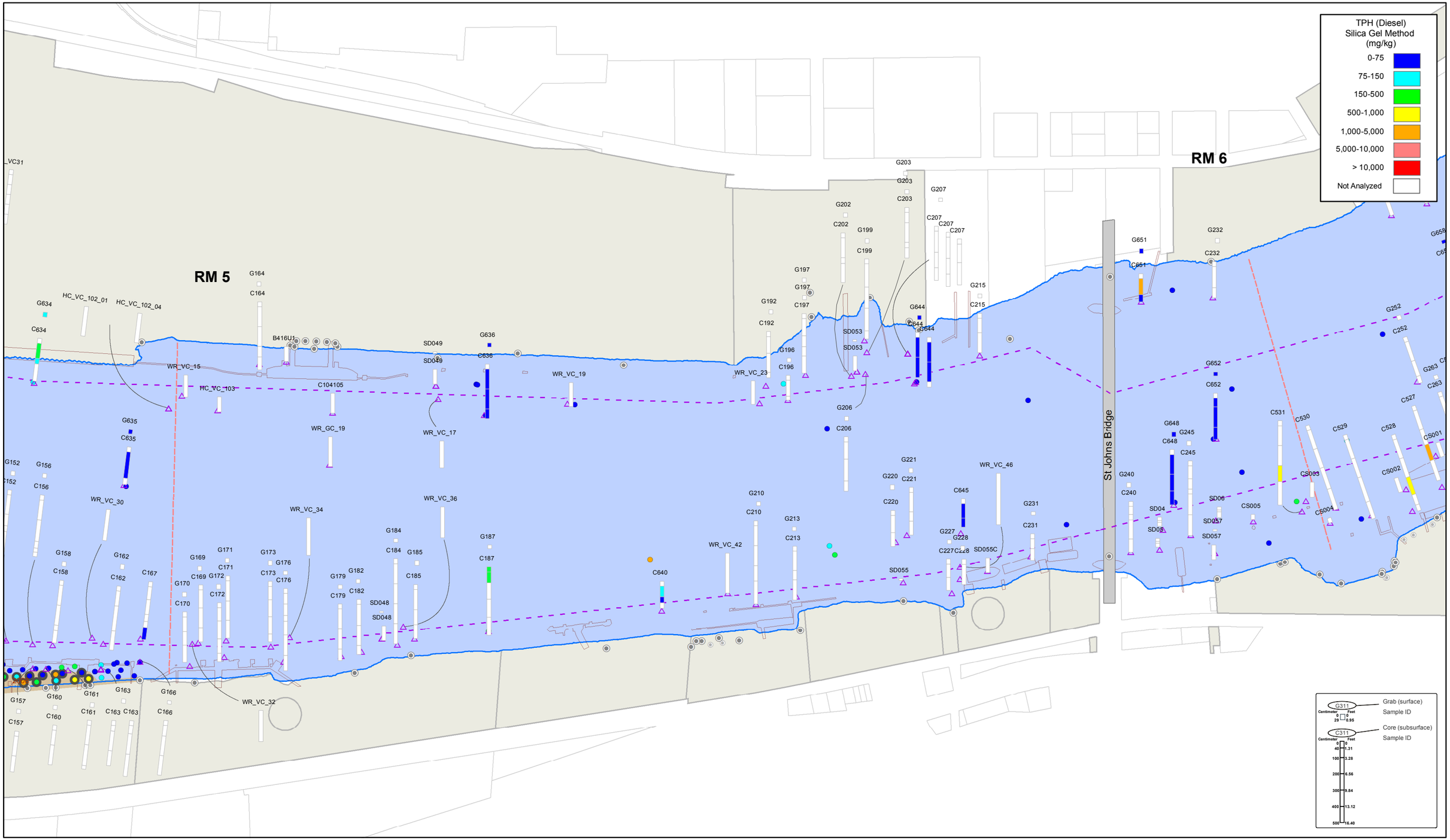
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

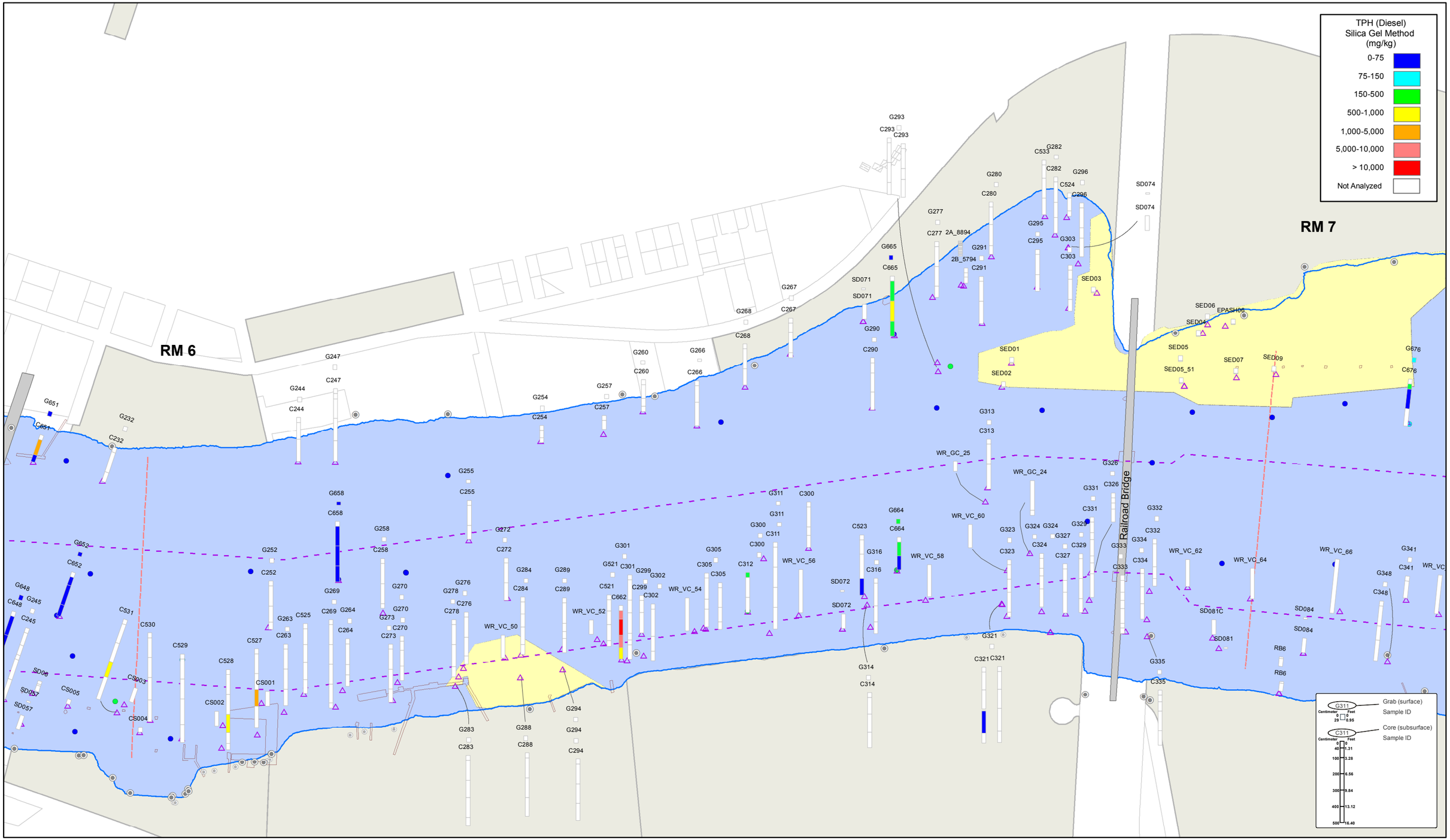
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

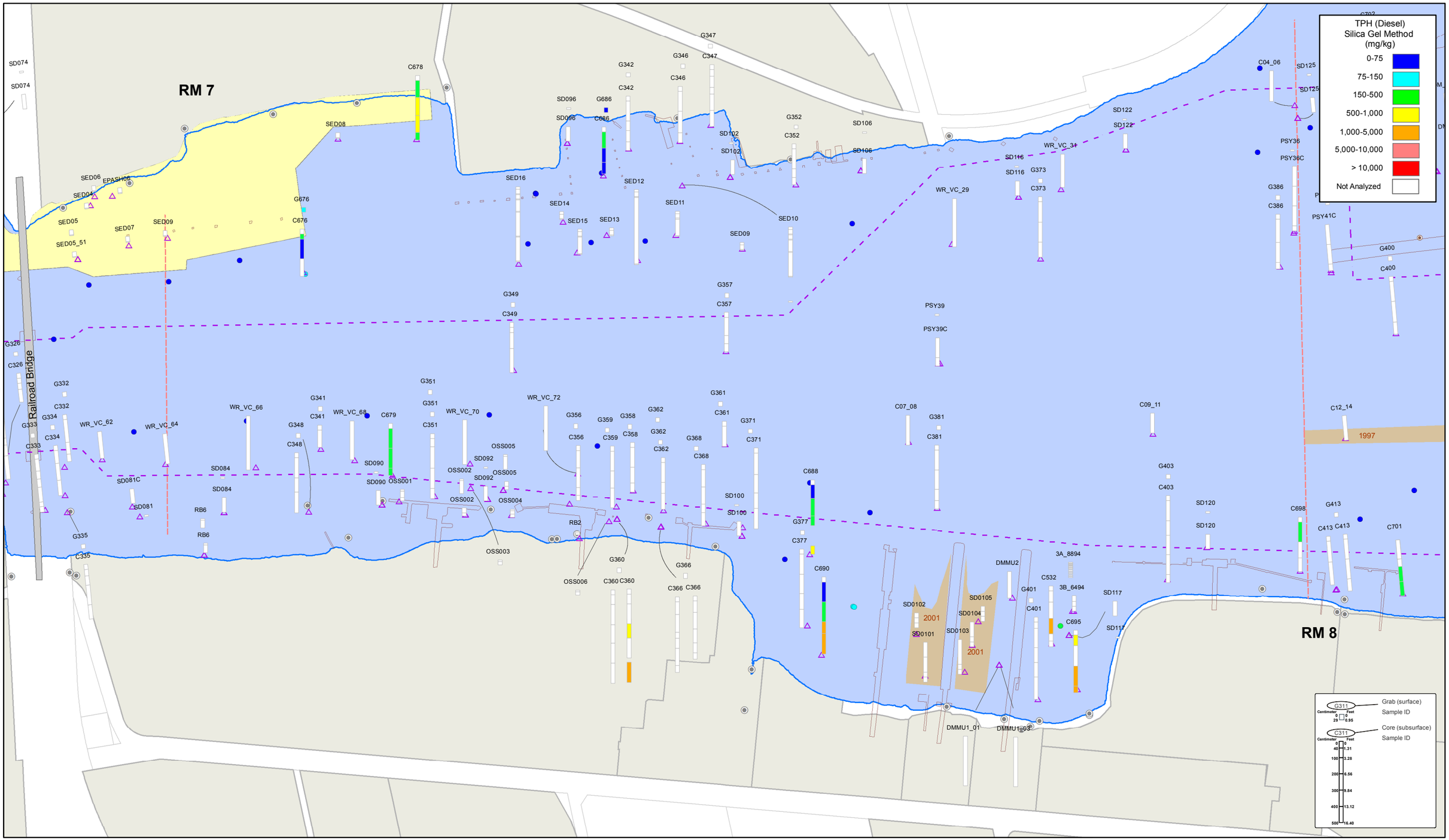
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 06 to 07



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

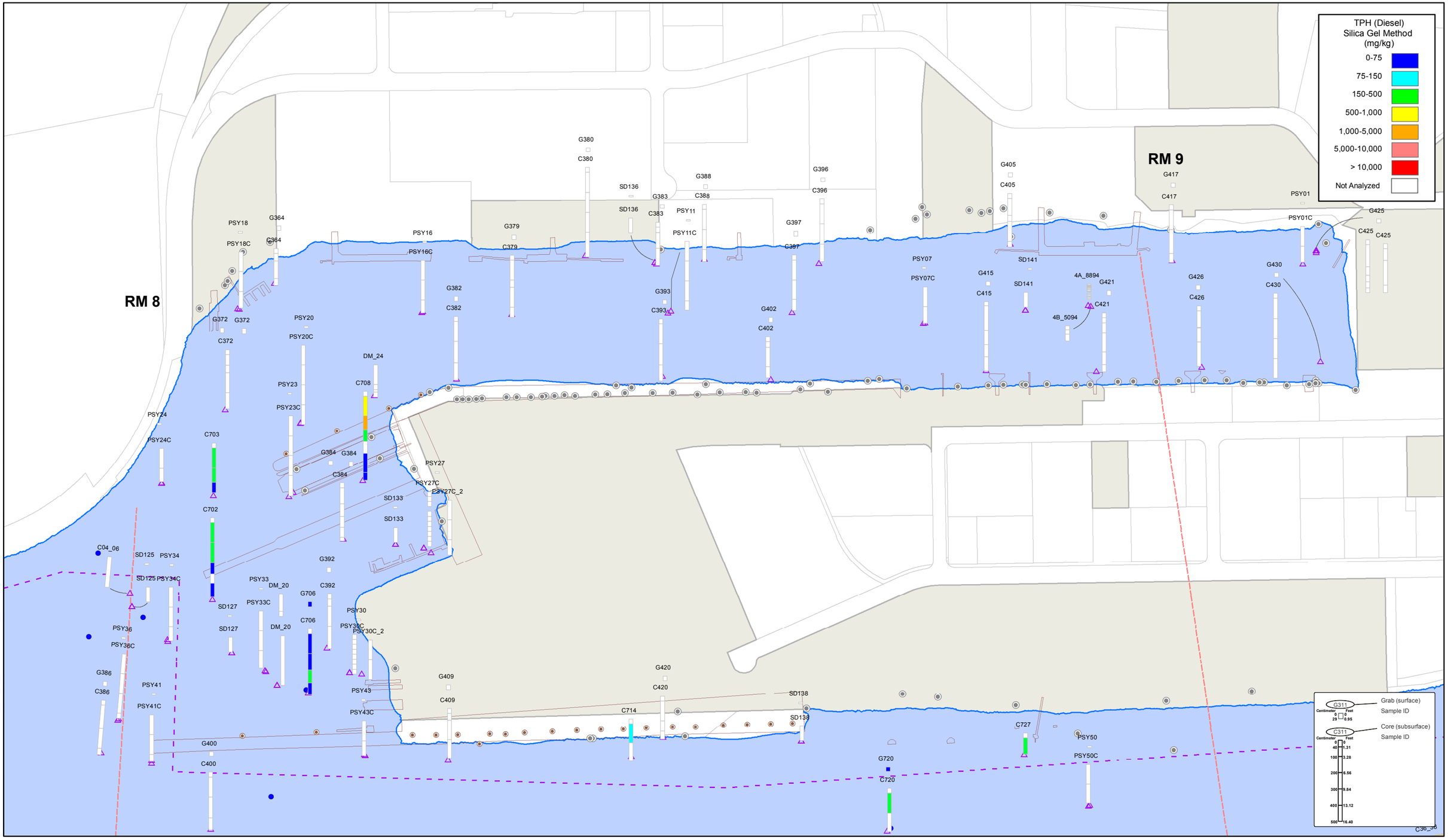
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

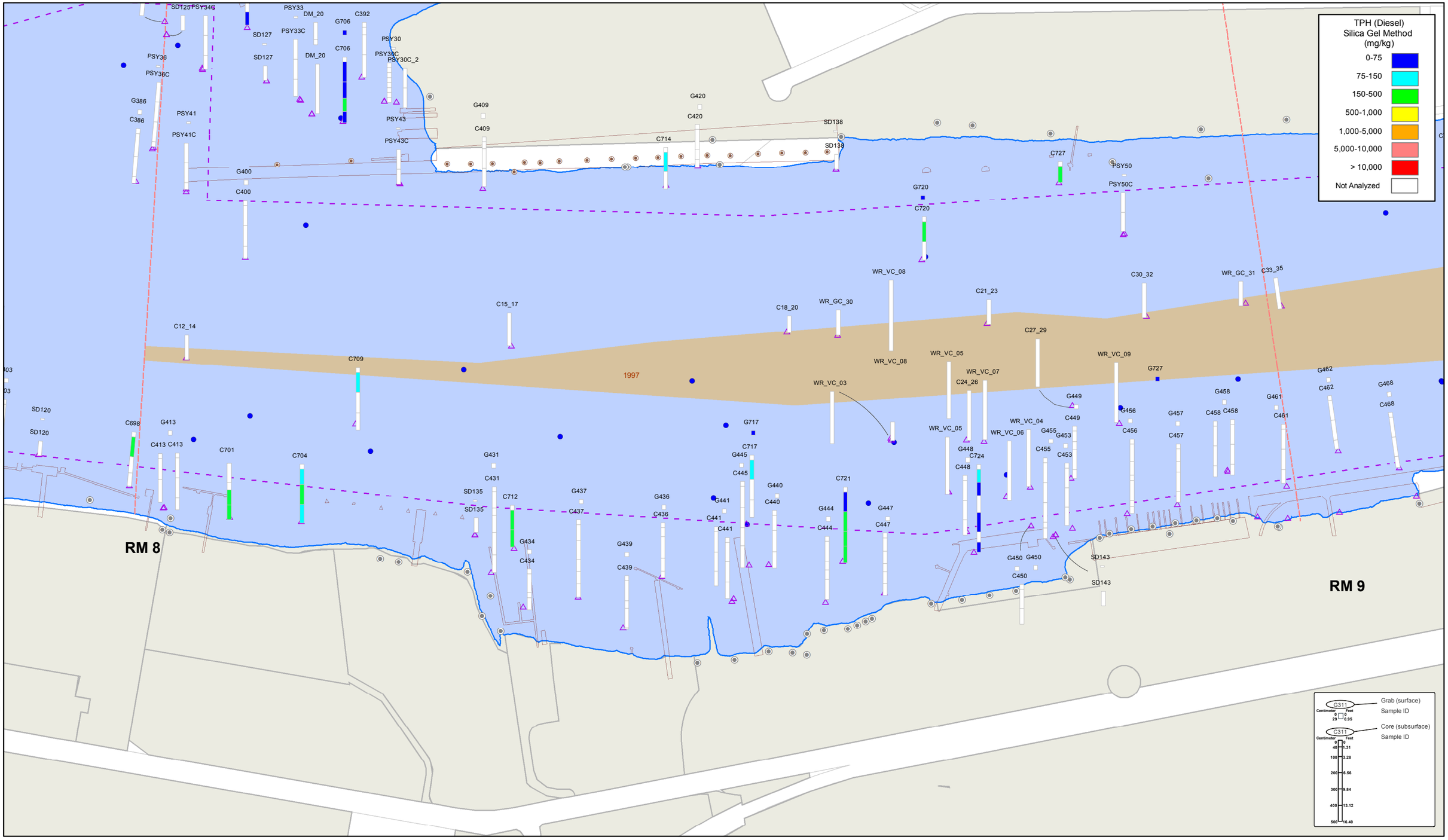
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

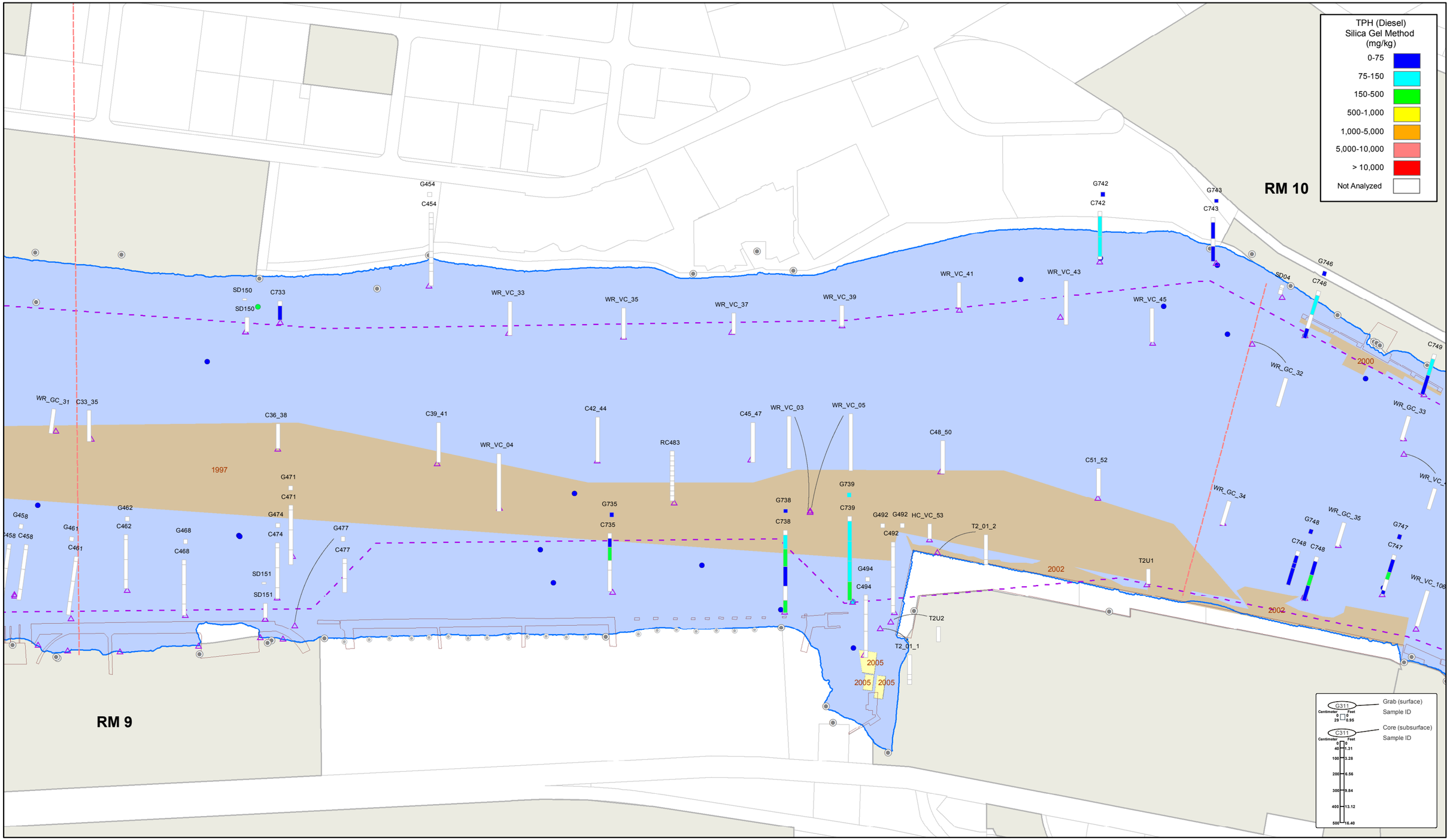
0 150 300 450 600 750 Feet

Map Features
- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

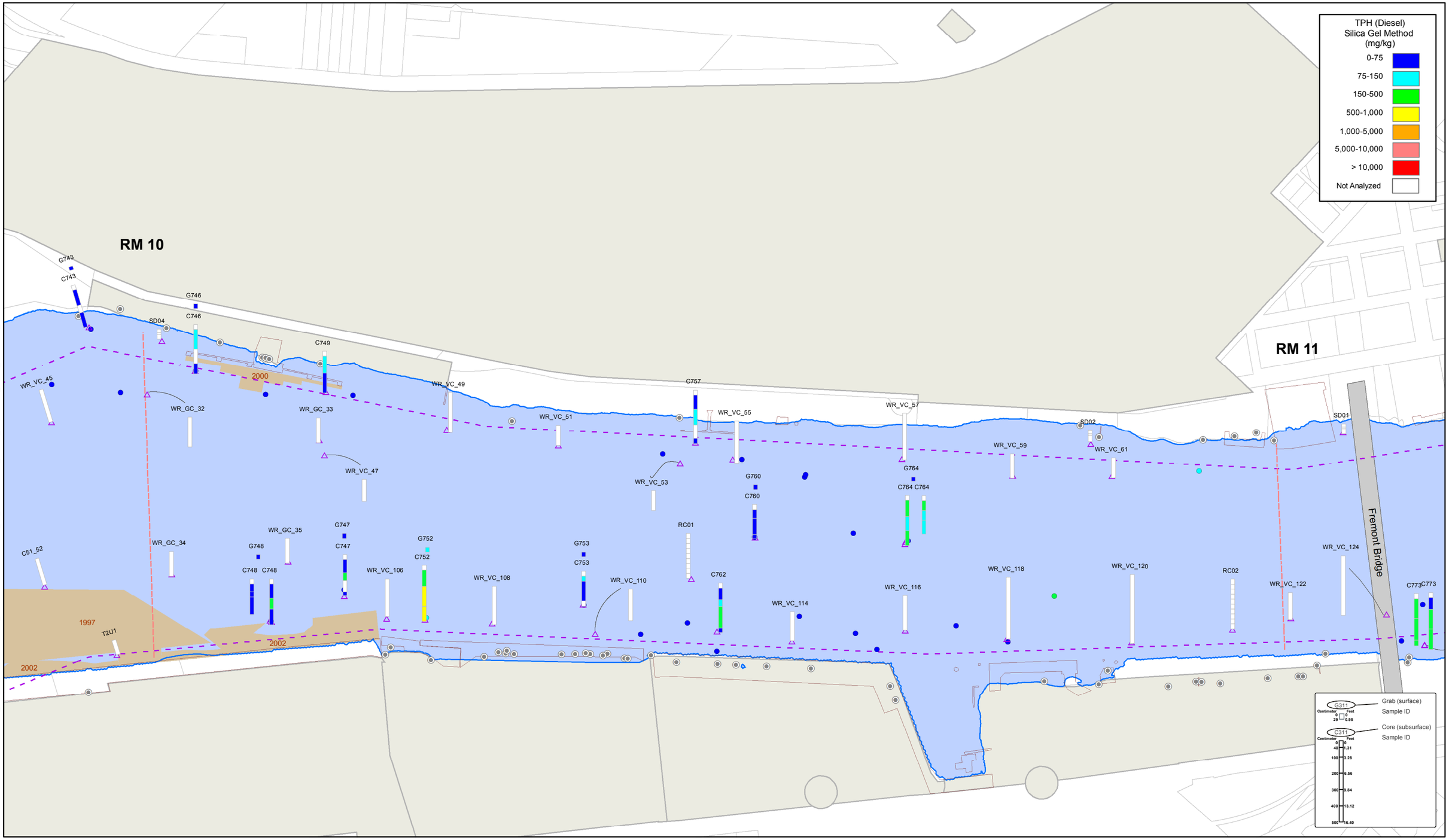
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 09 to 10



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

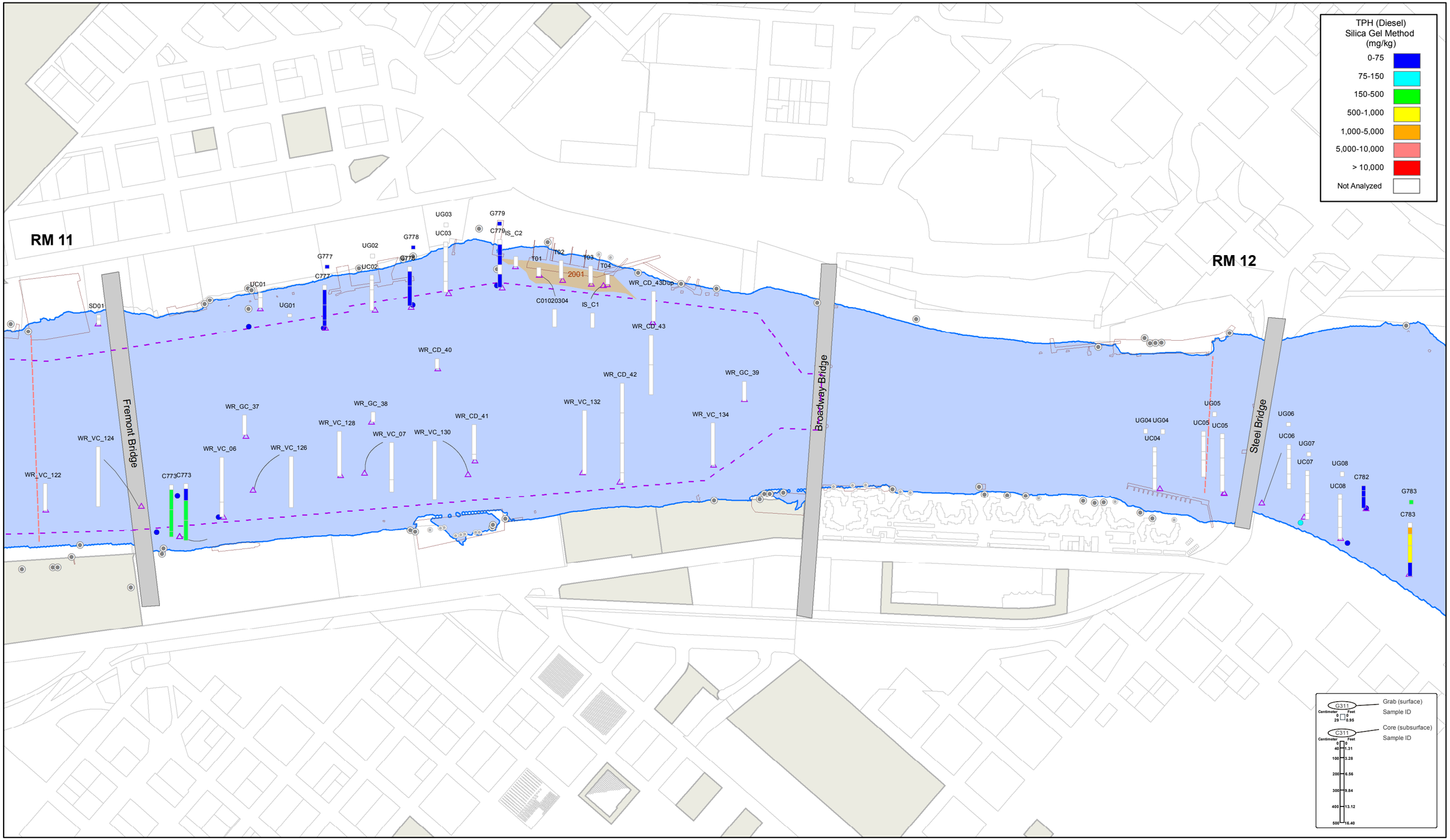
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

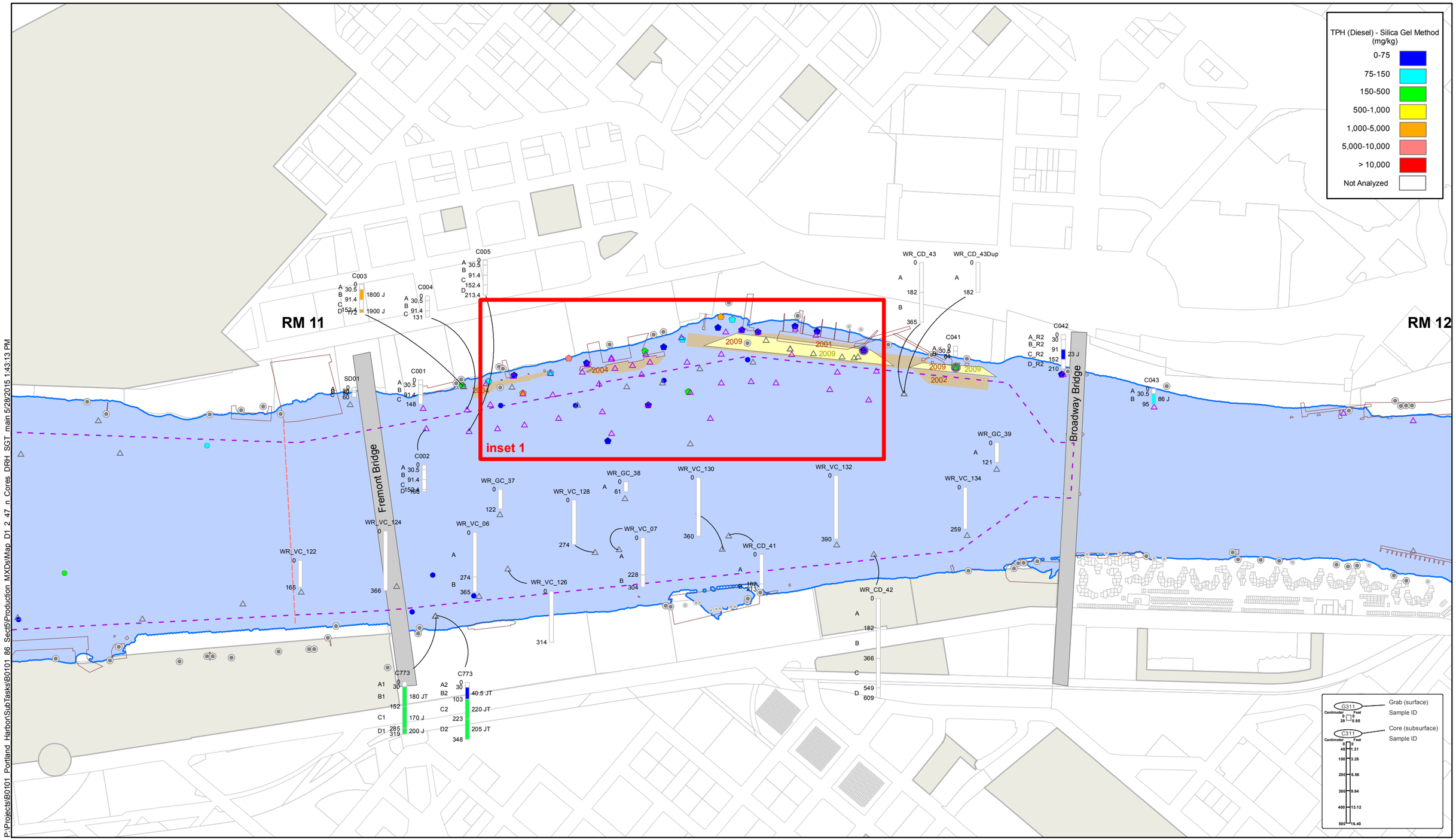
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
River Mile 11 to 12



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

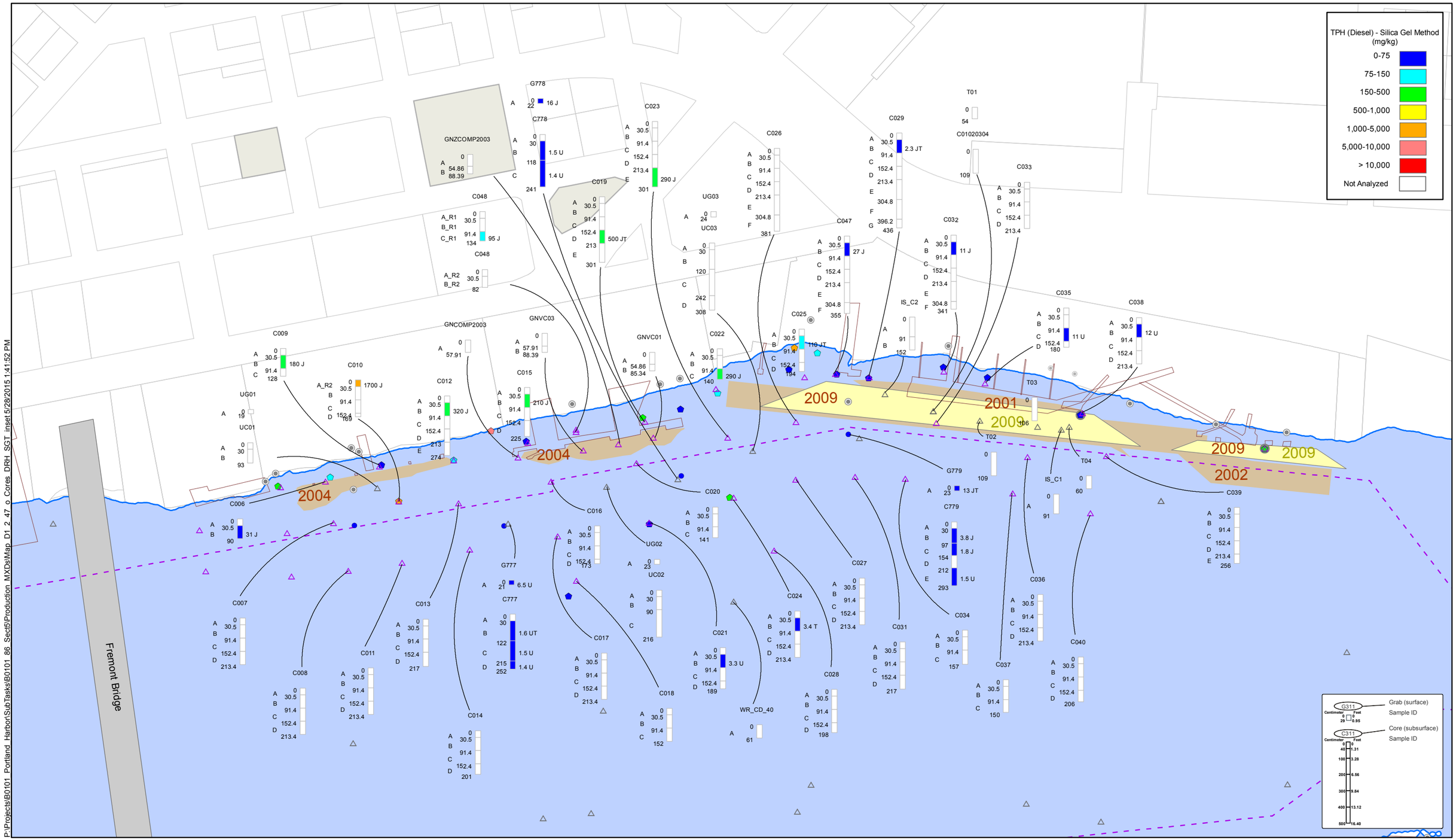
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)

River Mile 11.0 - 11.8



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

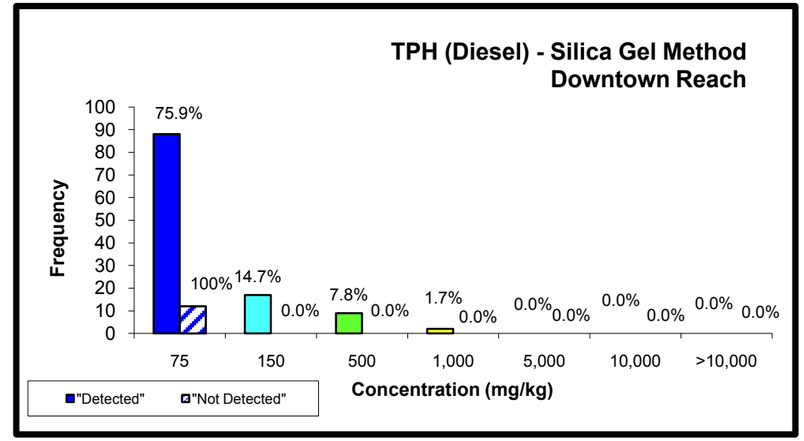
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-47o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



TPH (Diesel) - Silica Gel Method (mg/kg)

- 0-75
- 75-150
- 150-500
- 500-1,000
- 1,000-5,000
- 5,000-10,000
- > 10,000
- Detected
- Not Detected

RM 12

RM 13

RM 14

RM 15

RM 16

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N

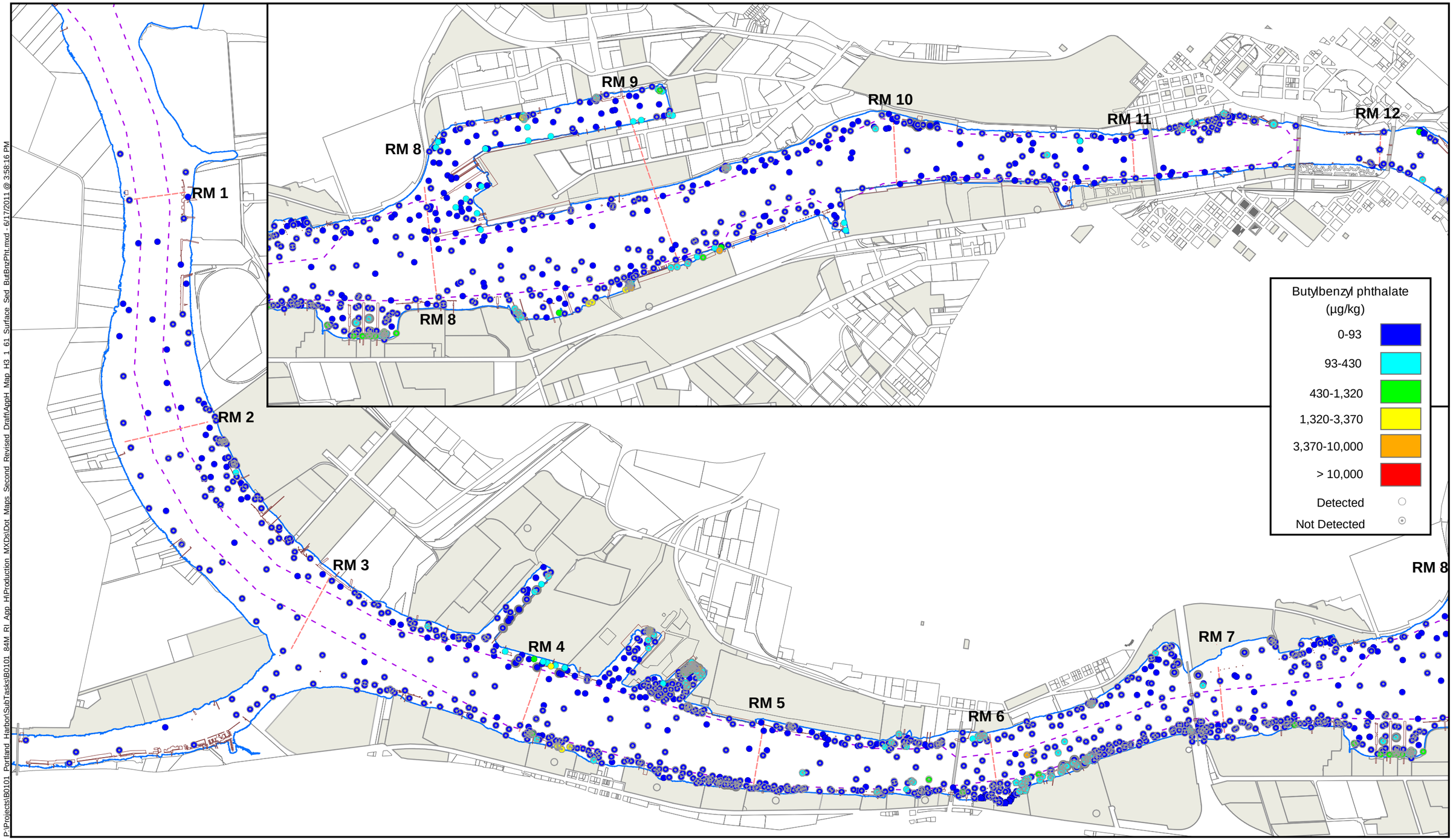
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-48
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
TPH (Diesel) - Silica Gel Method (mg/kg)
Downtown Reach



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N

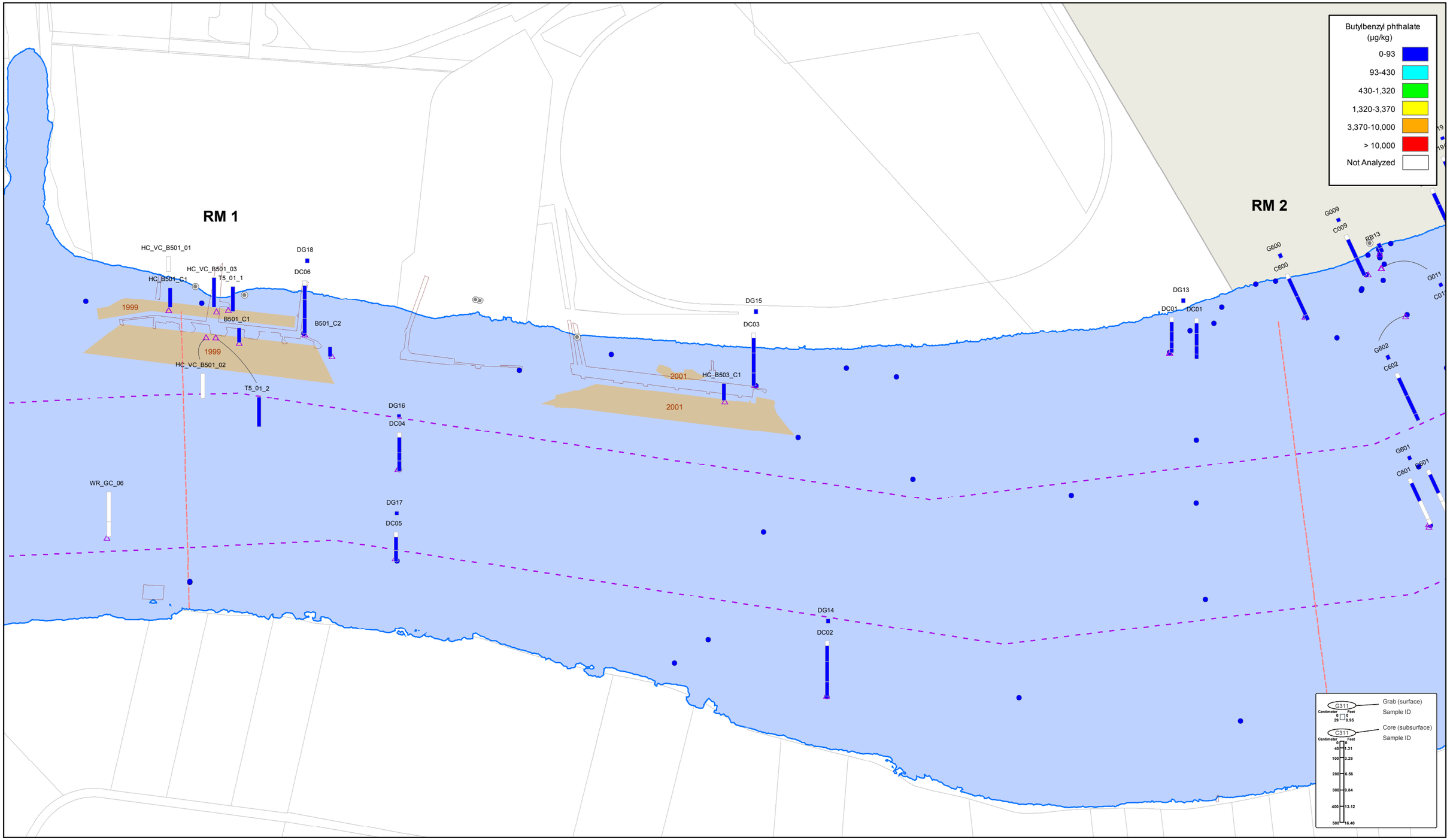
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-49
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

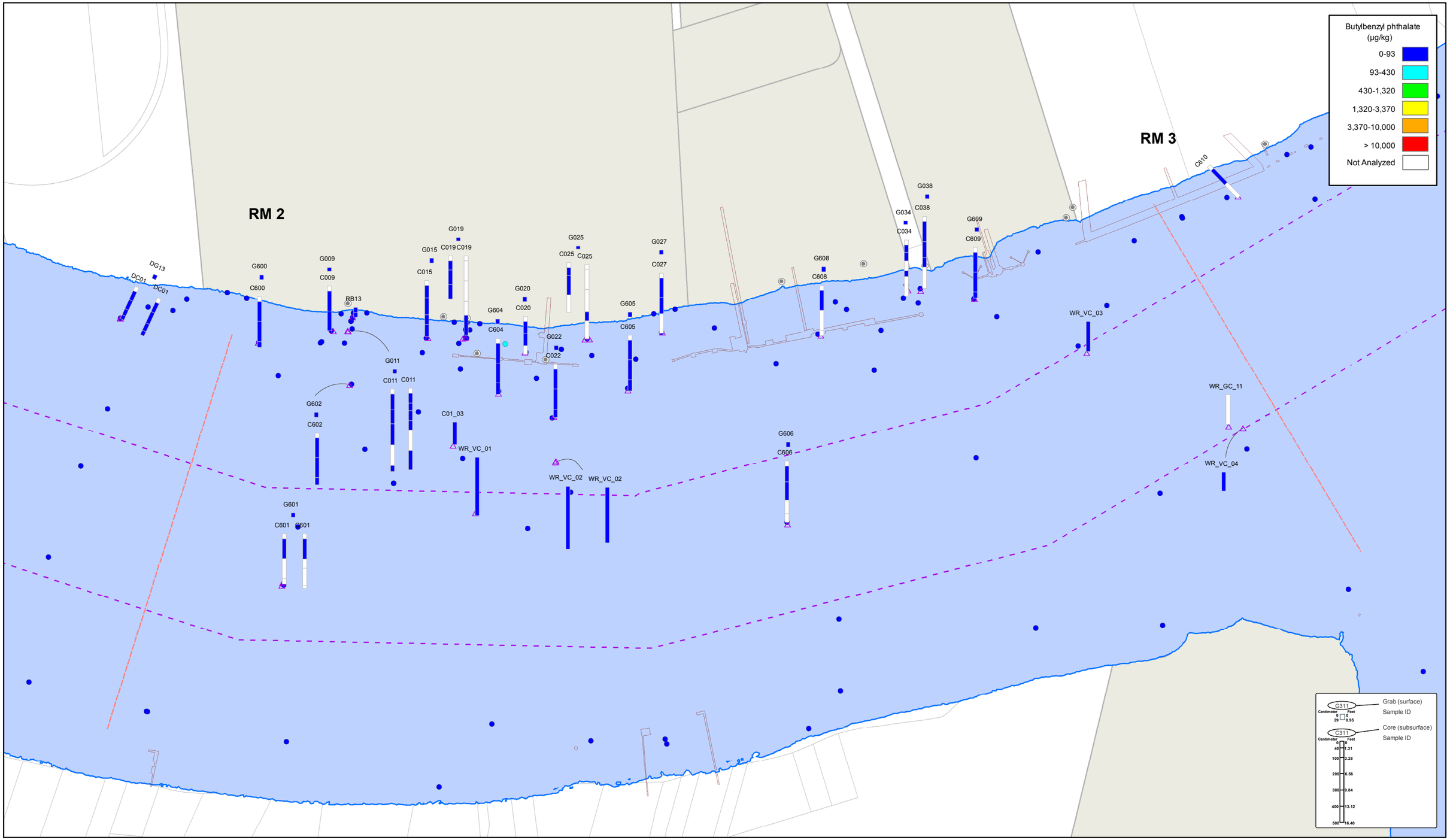
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)
River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_0312009-03-10_Sec5.1_Map D.1-35_Cores_ButBnzPht_Main.mxd) - 3/12/2009 -- 9:08:38 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

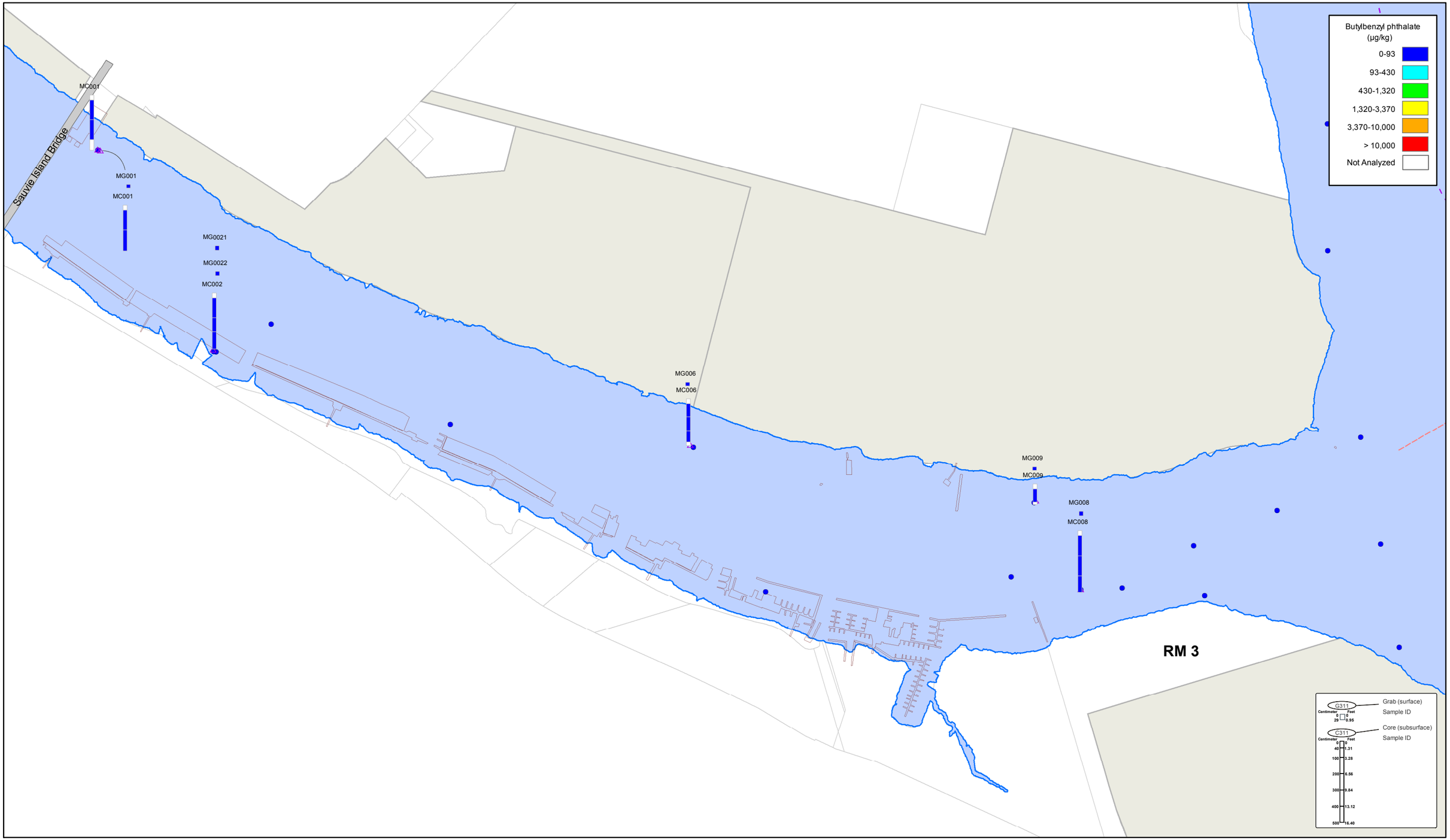
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50 b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-10_Sec5.1_Map D.1-35_Cores_ButBnzPht_Main.mxd) - 3/12/2009 -- 9:08:38 AM



N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

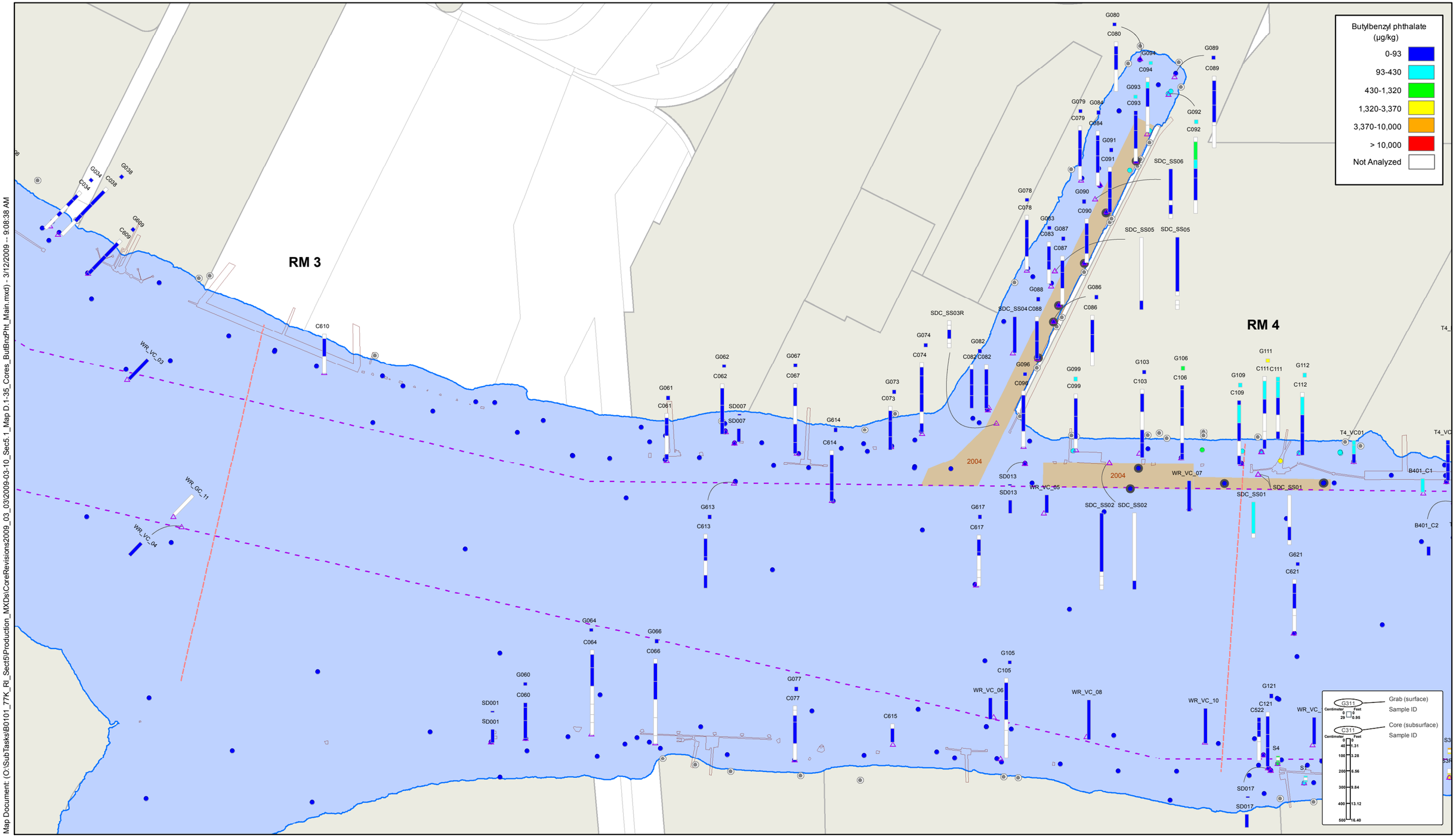
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

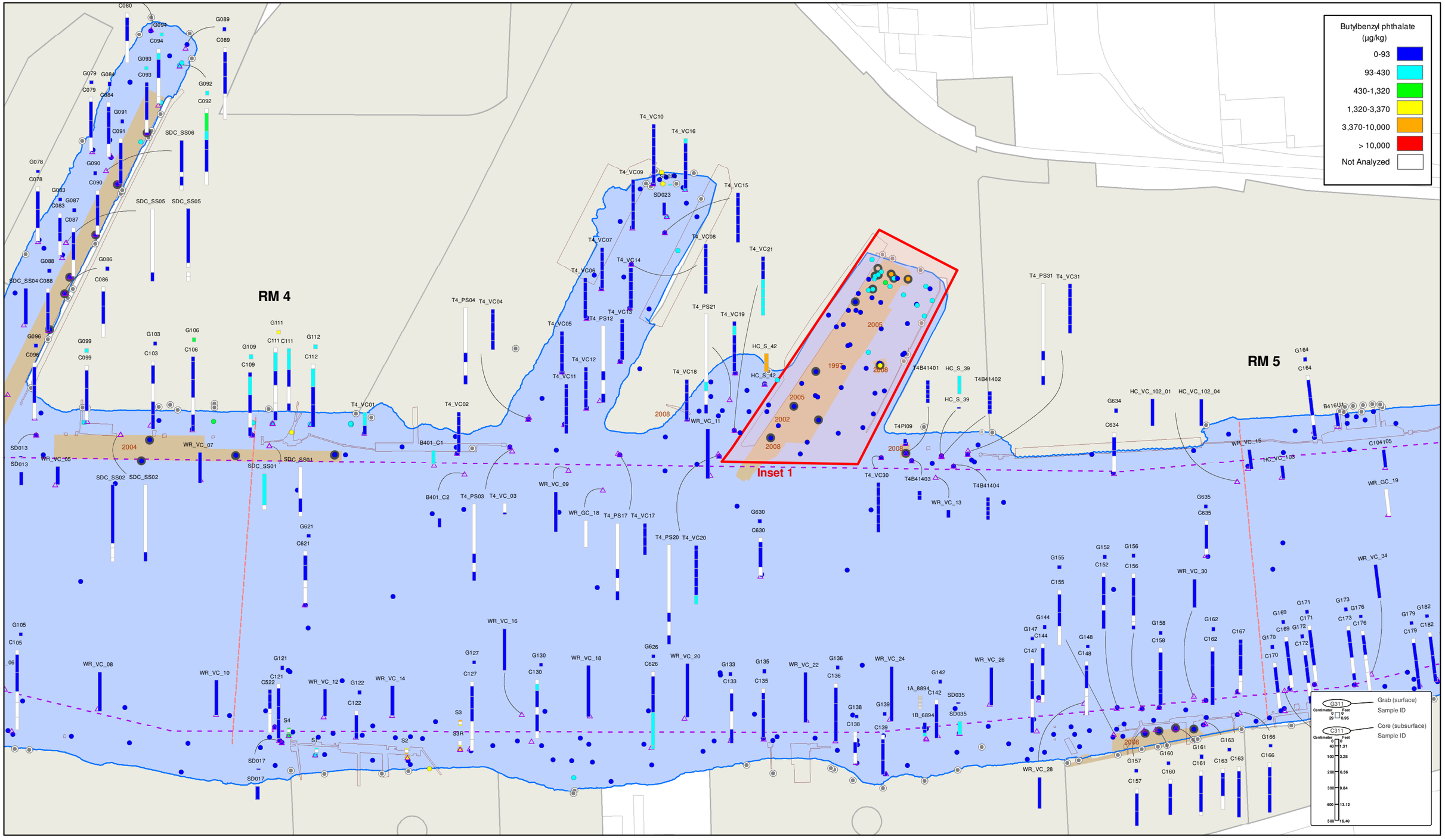
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50 d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 03 to 04

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-34_Cores_ButBnzPht_Main.mxd) 7/1/2009 -- 12:46:47 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

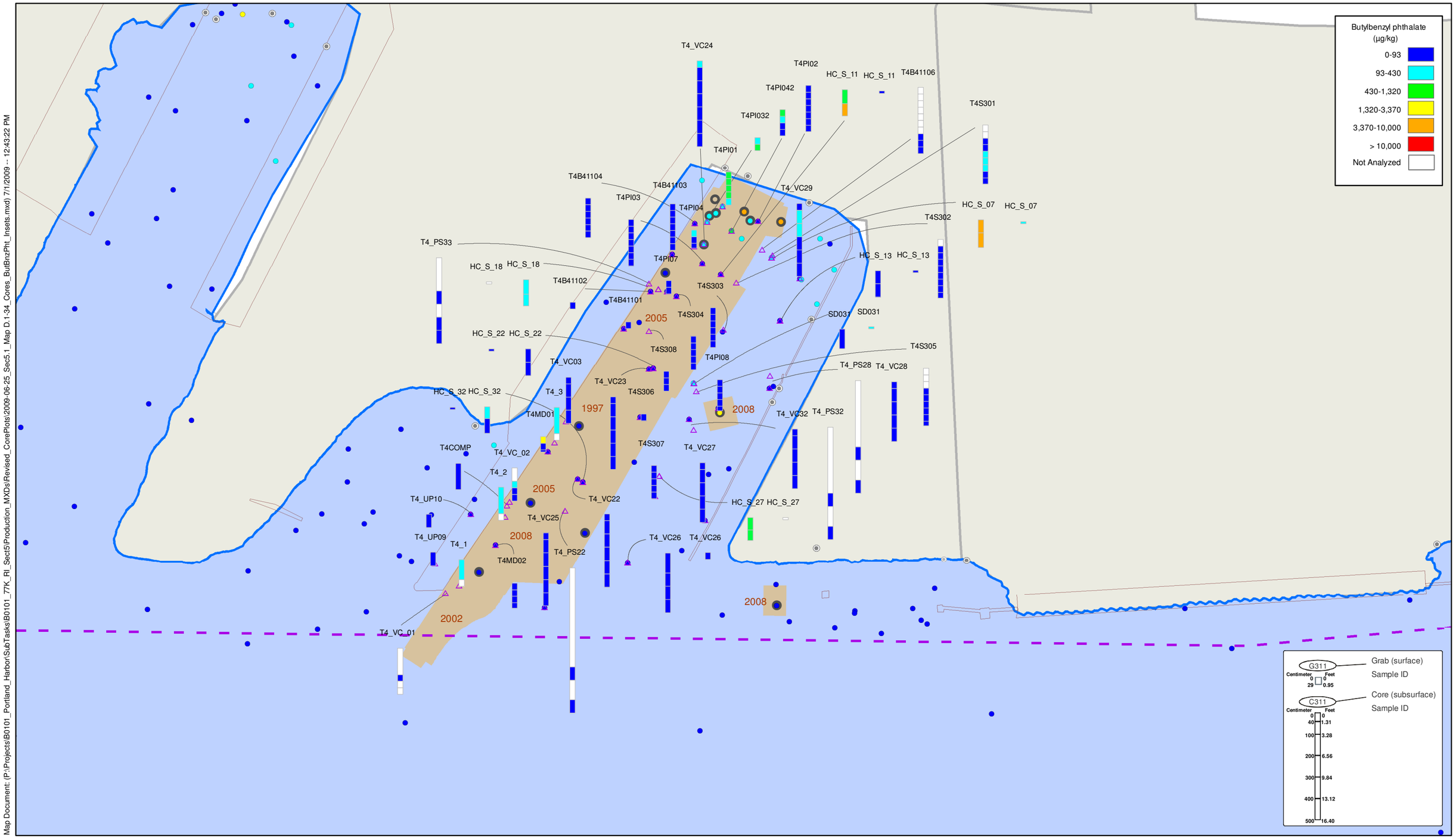
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

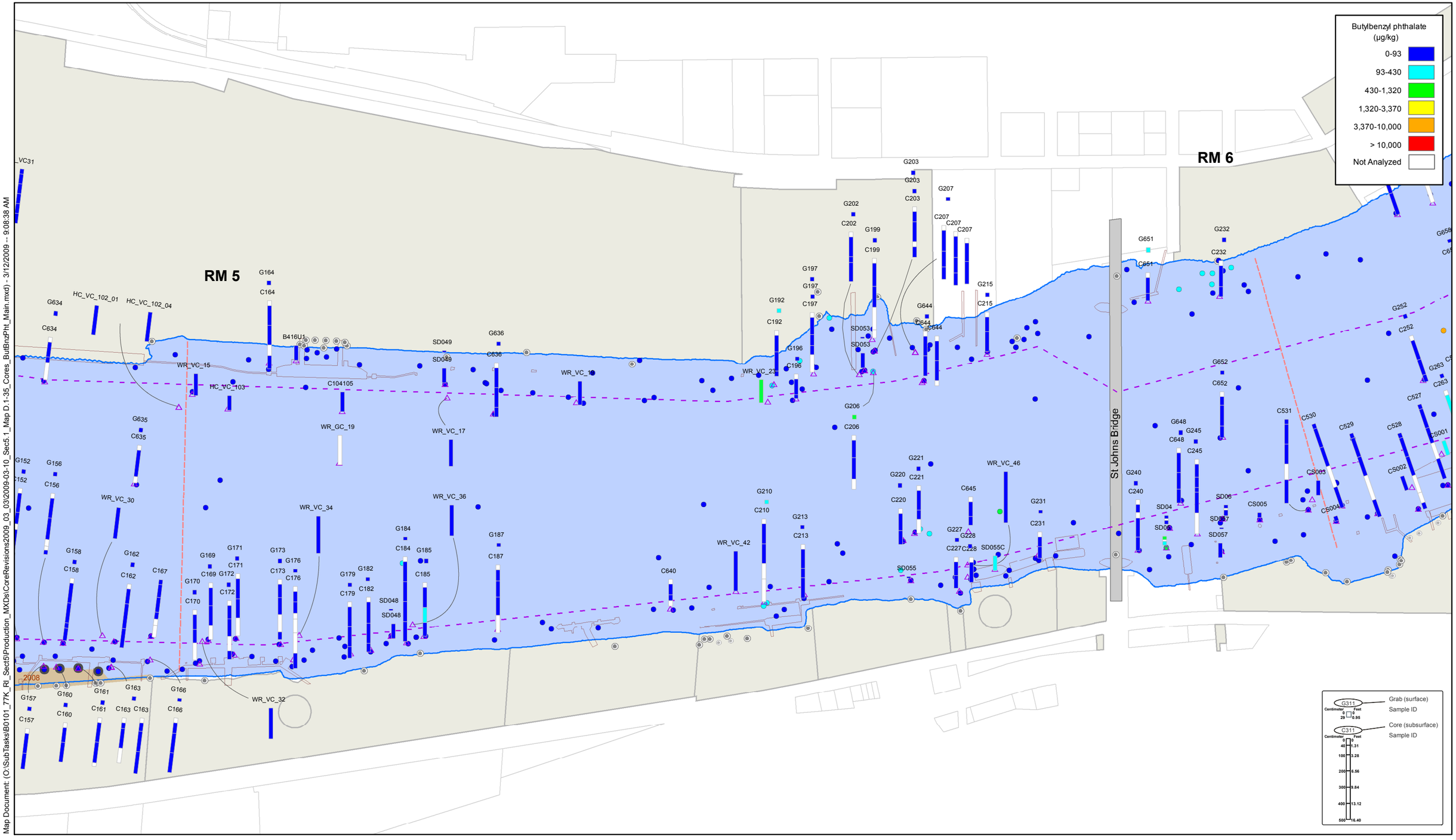
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

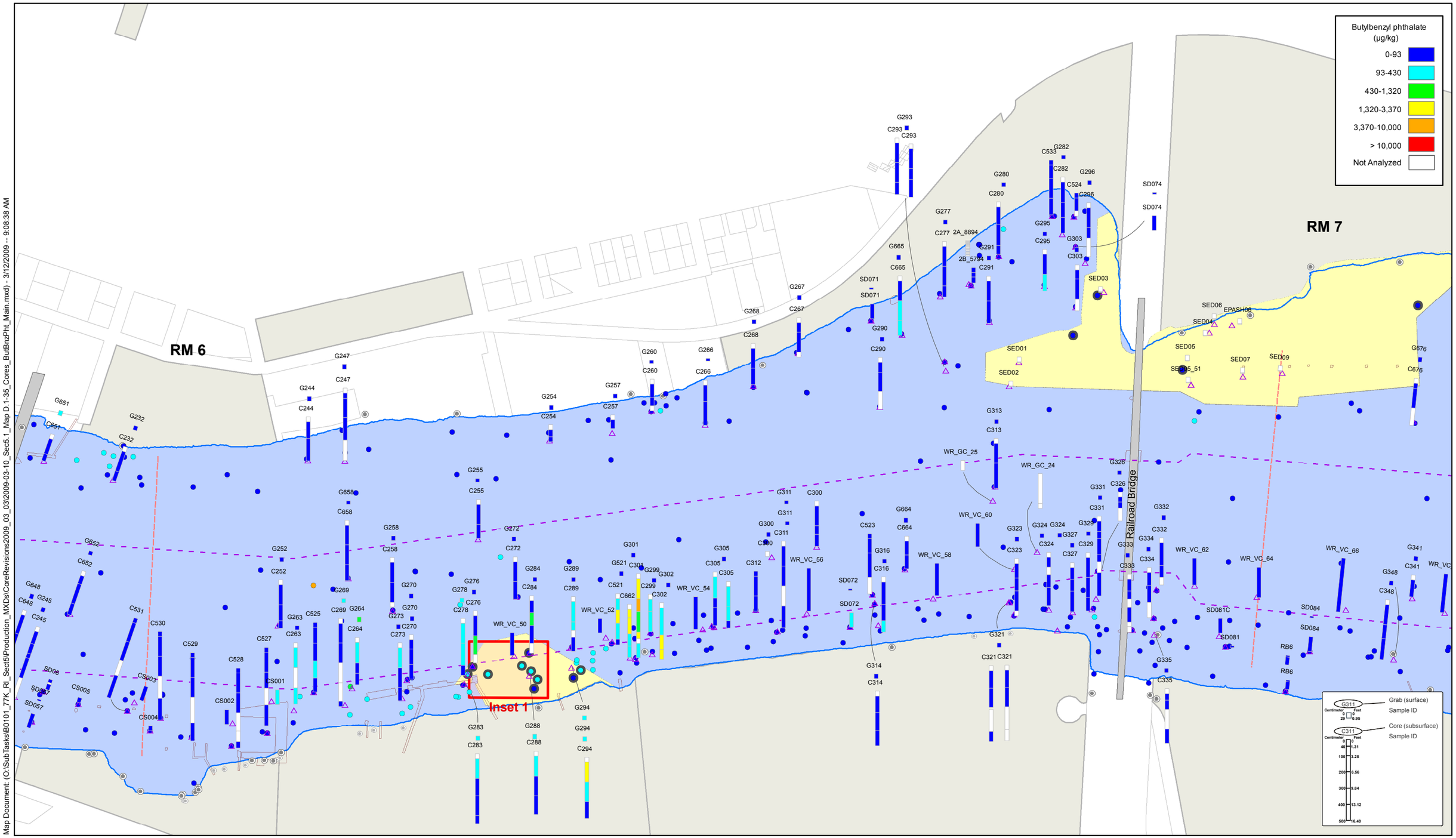
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

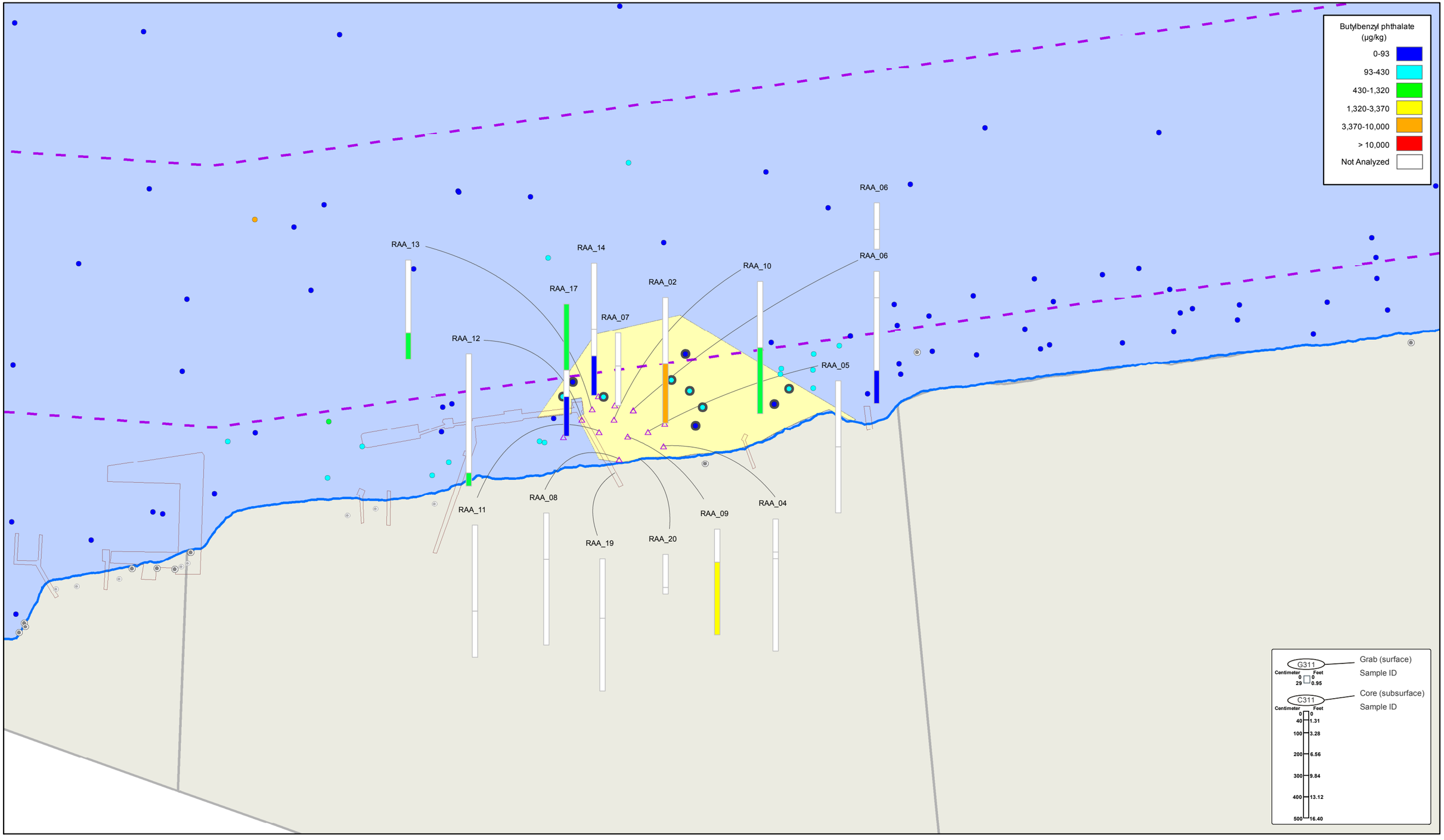
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50g

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)
River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

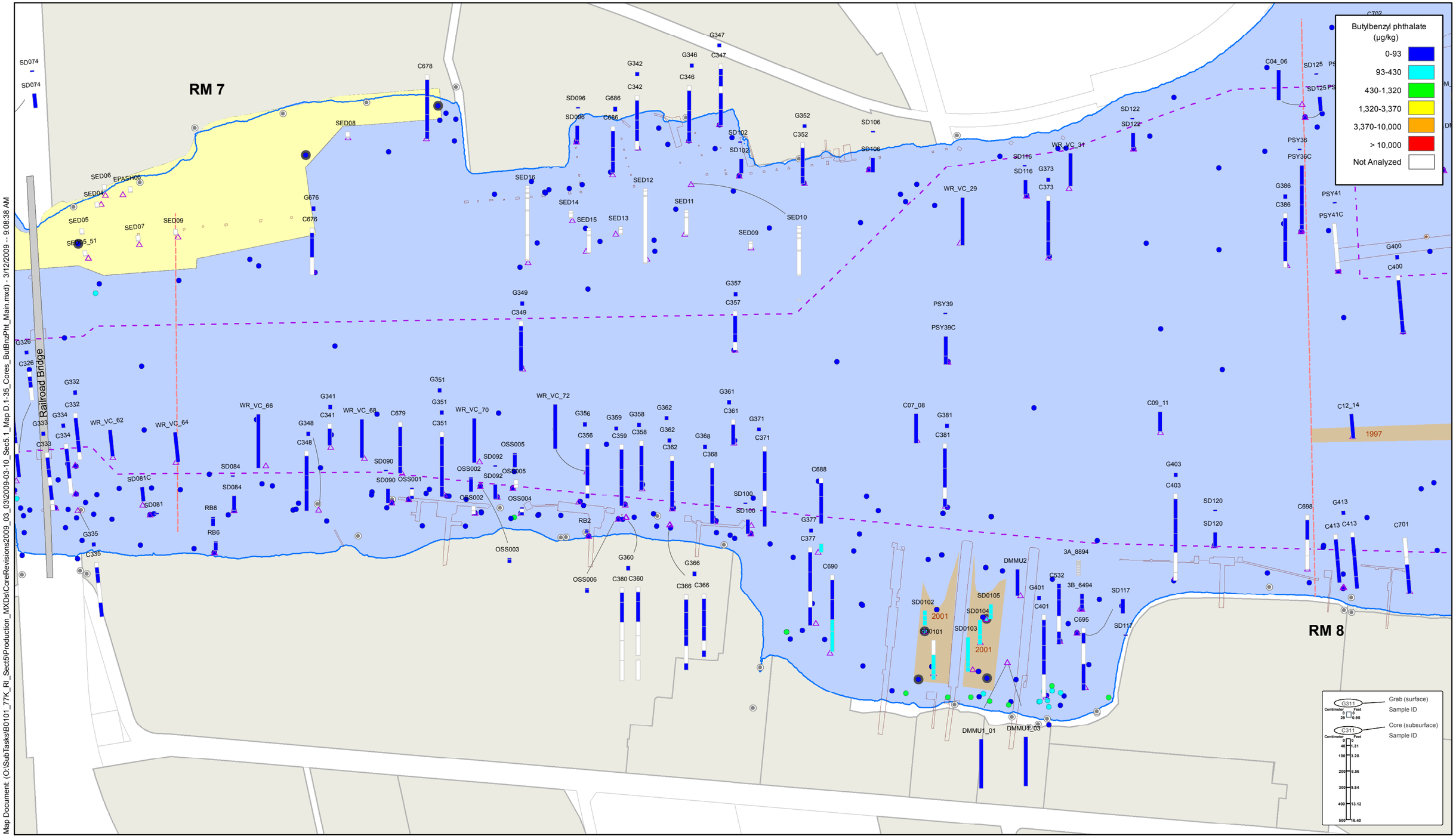
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 06 to 07 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

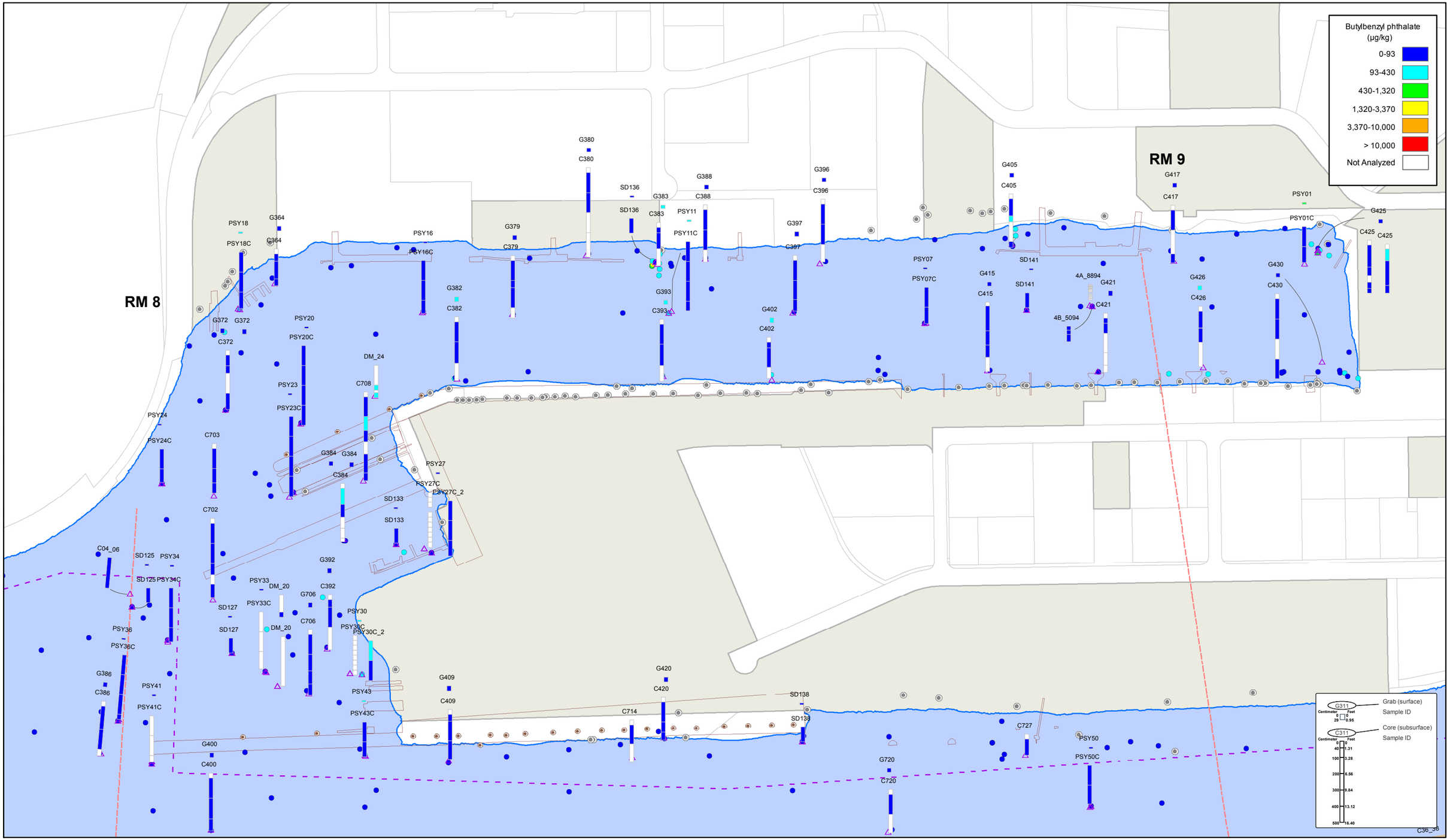
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)
River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

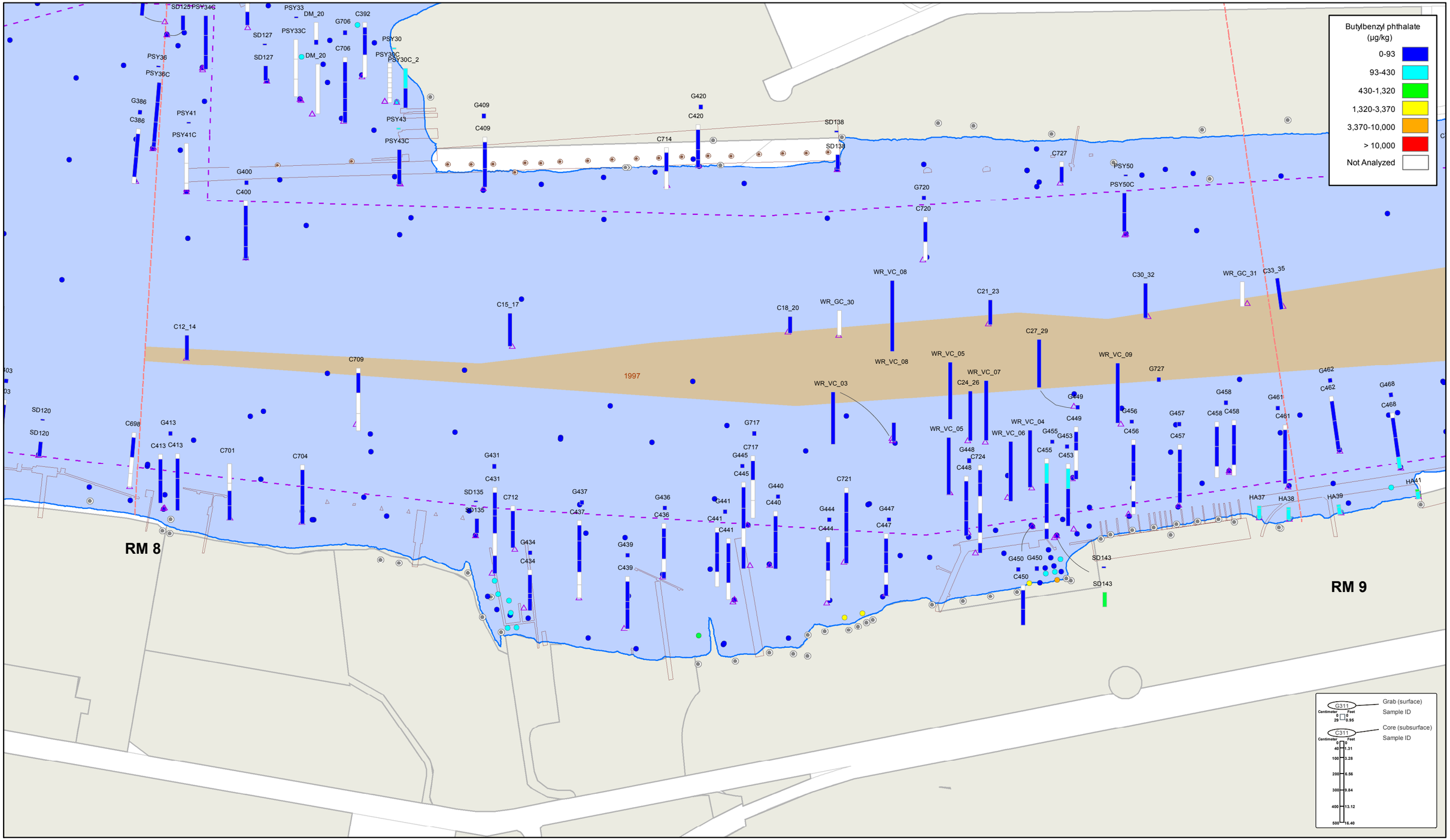
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

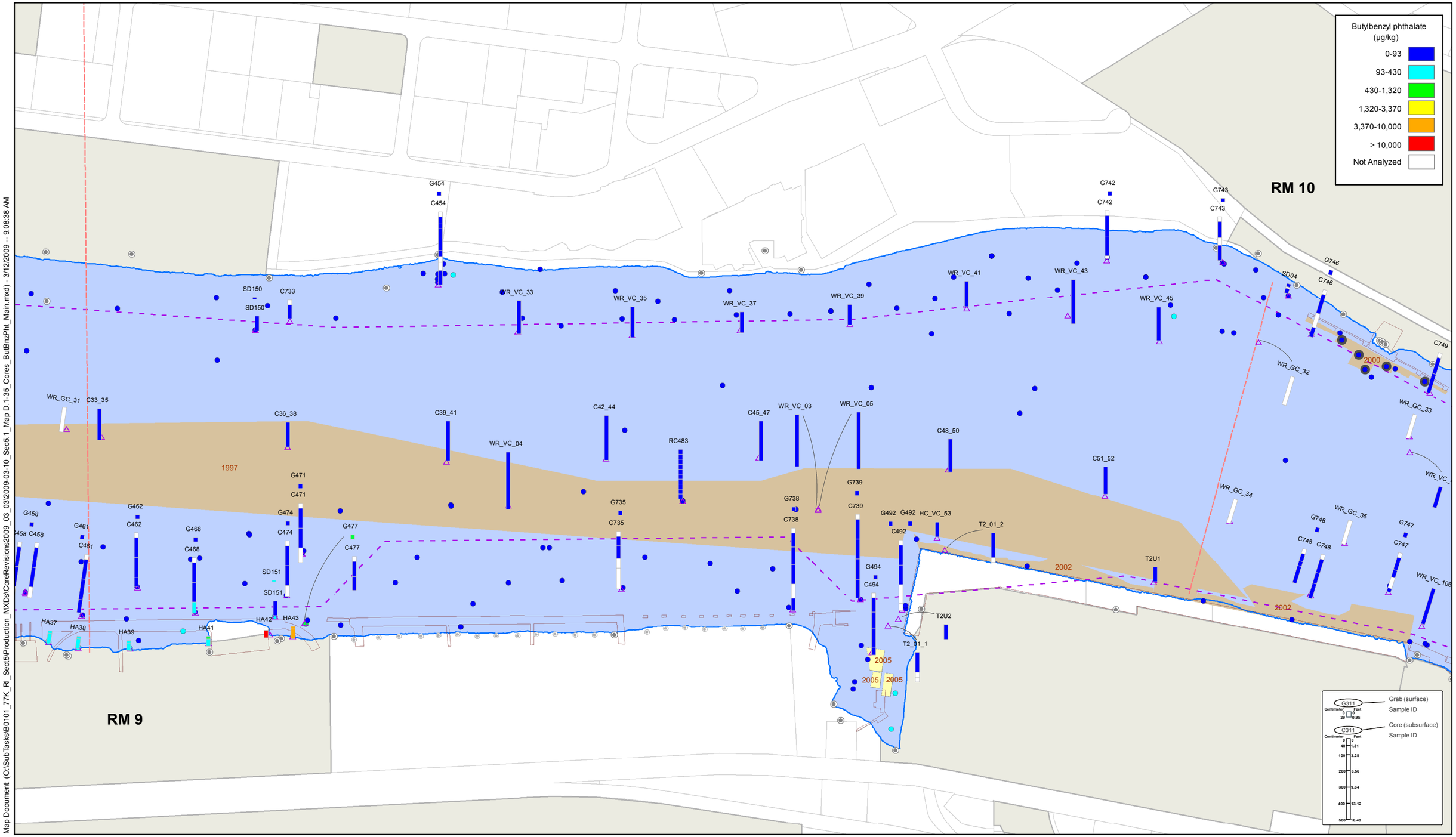
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

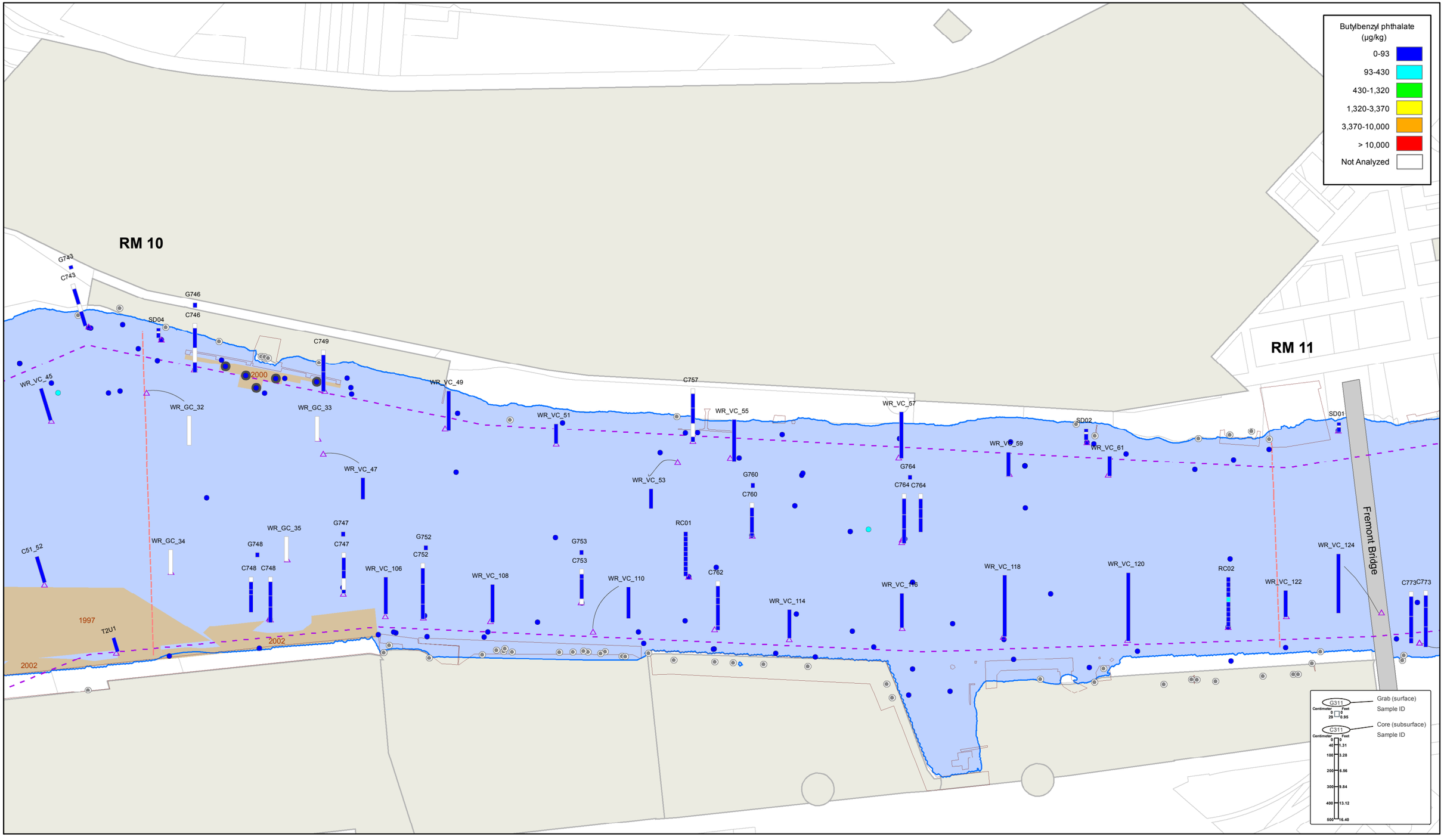
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 09 to 10



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

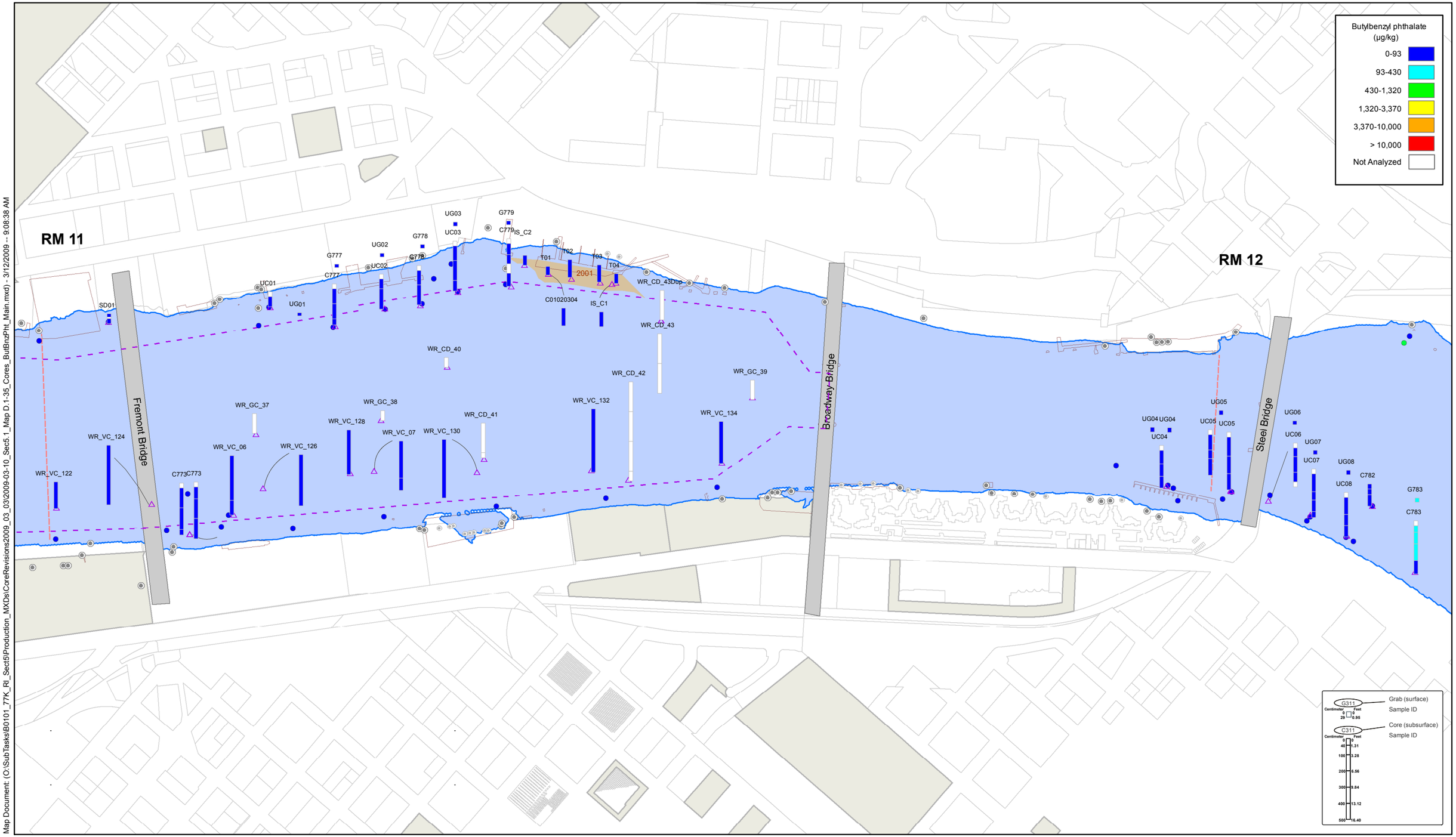
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

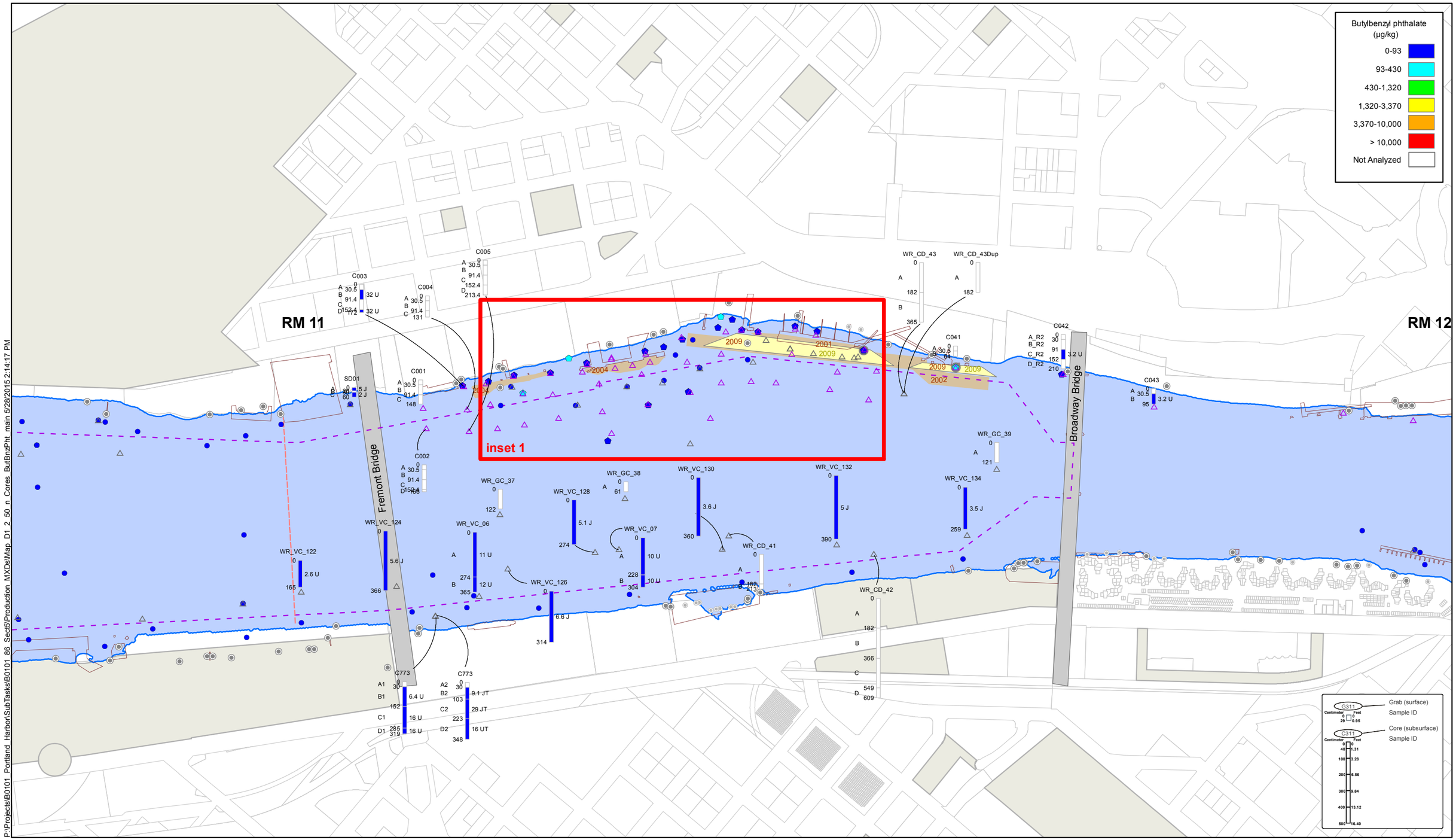
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 11 to 12



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

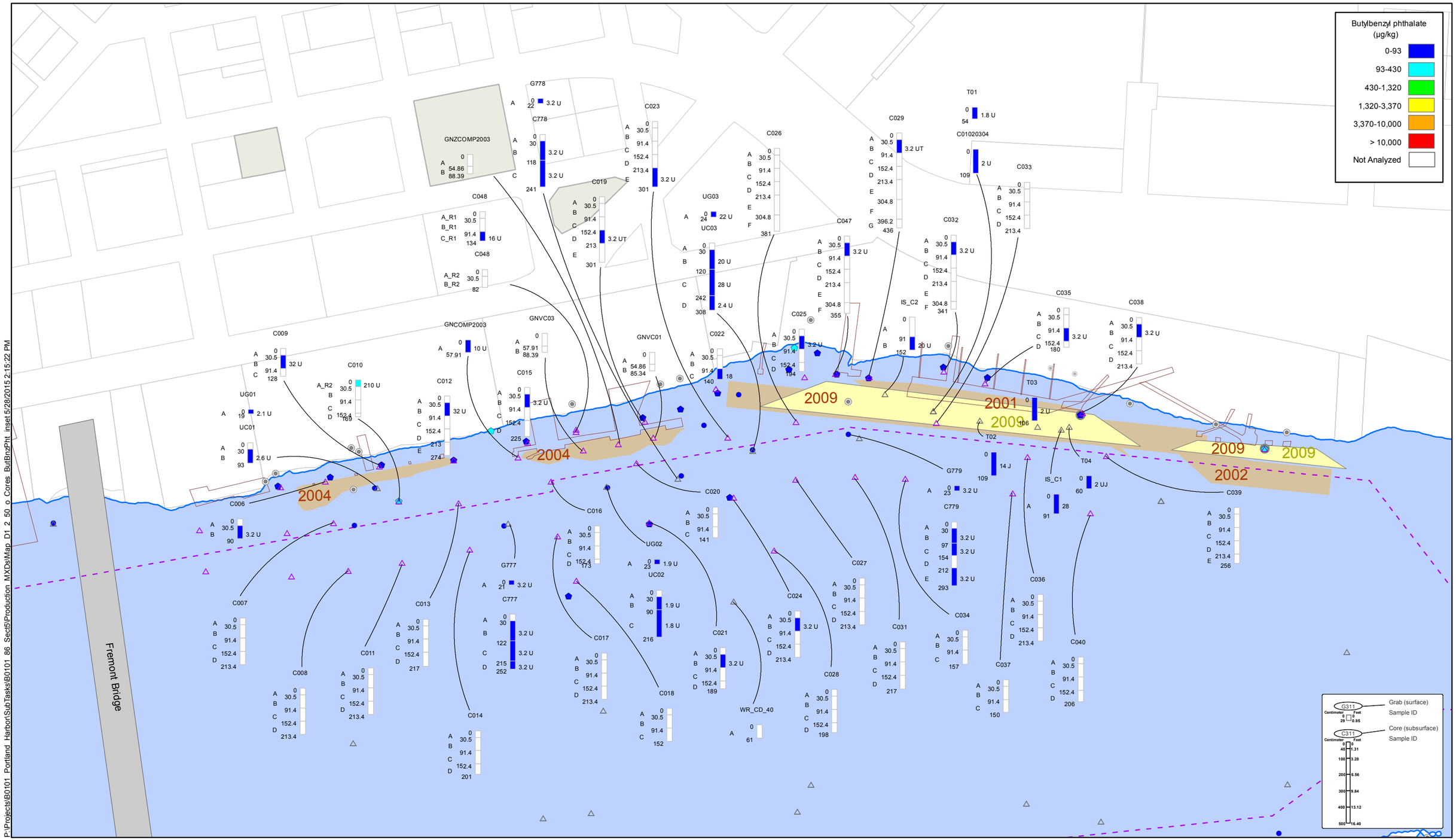
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 11.0 - 11.8



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

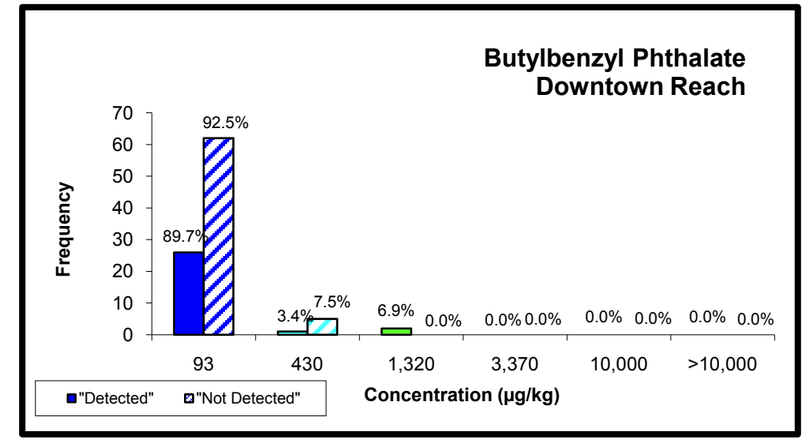
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-50o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)

River Mile 11.0 - 11.8 - Inset 1



Butylbenzyl phthalate (µg/kg)

- 0-93
- 93-430
- 430-1,320
- 1,320-3,370
- 3,370-10,000
- > 10,000
- Detected
- Not Detected

RM 12

RM 13

RM 14

RM 15

RM 16

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_84M_RI_App_H\Production_MXDs\Dot_Maps_Downtown_Second_Revised_Draft\AppH_Map_H4_1_31_ButBnzPht.mxd - 6/18/2011 @ 2:44:28 PM

N

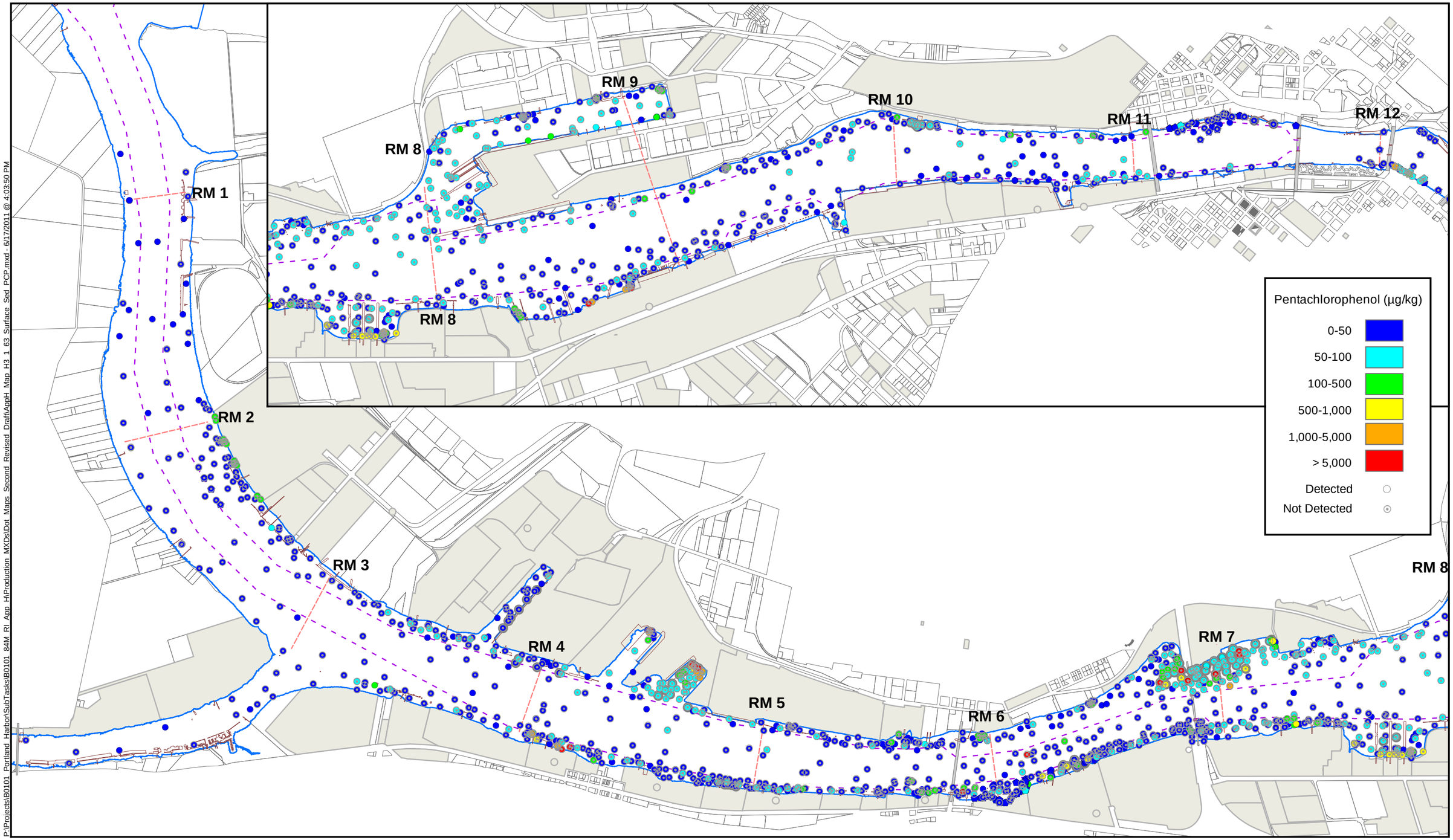
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-51
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Butylbenzyl phthalate (µg/kg)
Downtown Reach



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N

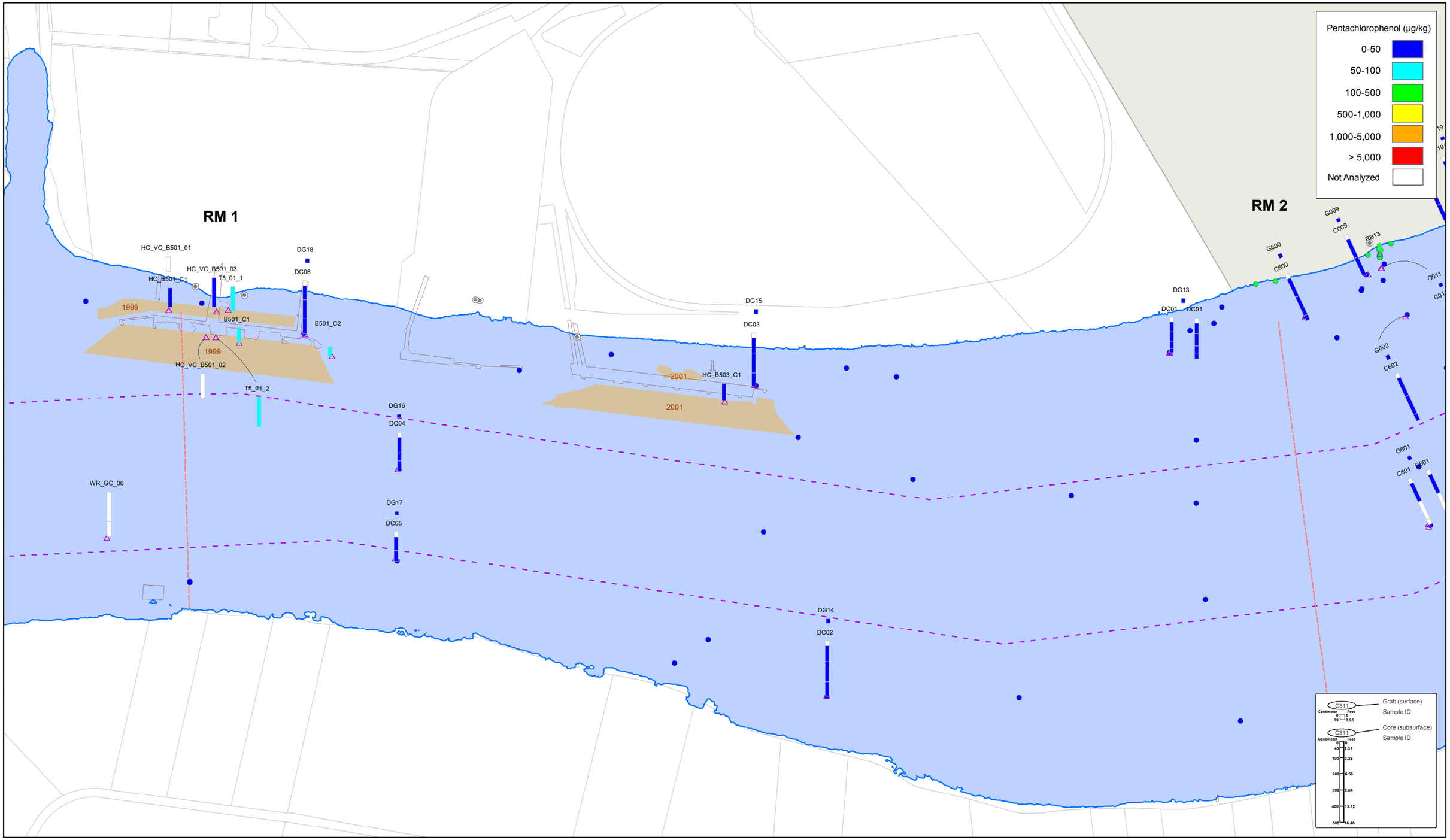
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-52
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Pentachlorophenol (µg/kg)



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

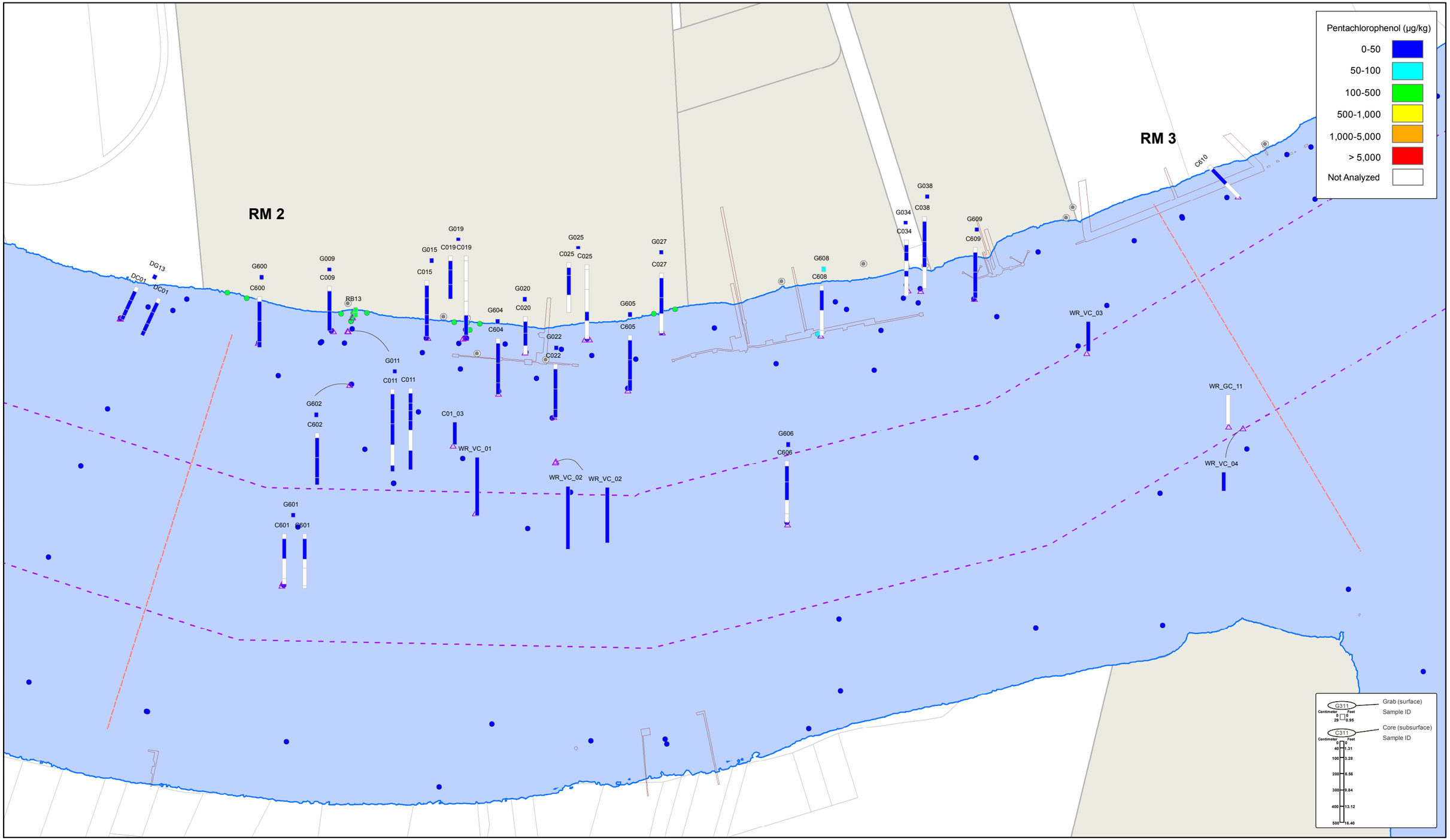
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53a

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 01 to 02



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_0312009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

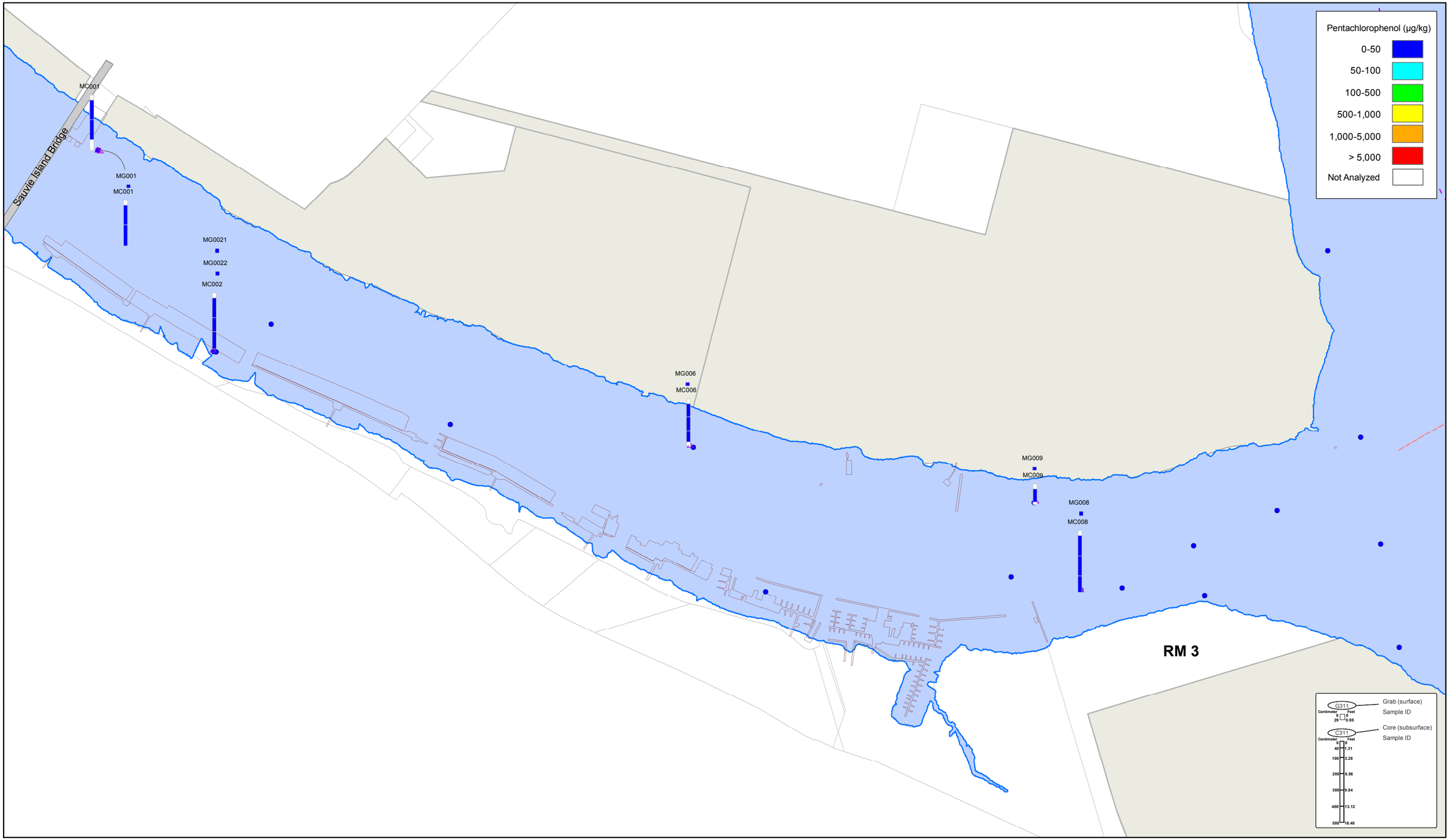
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53 b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

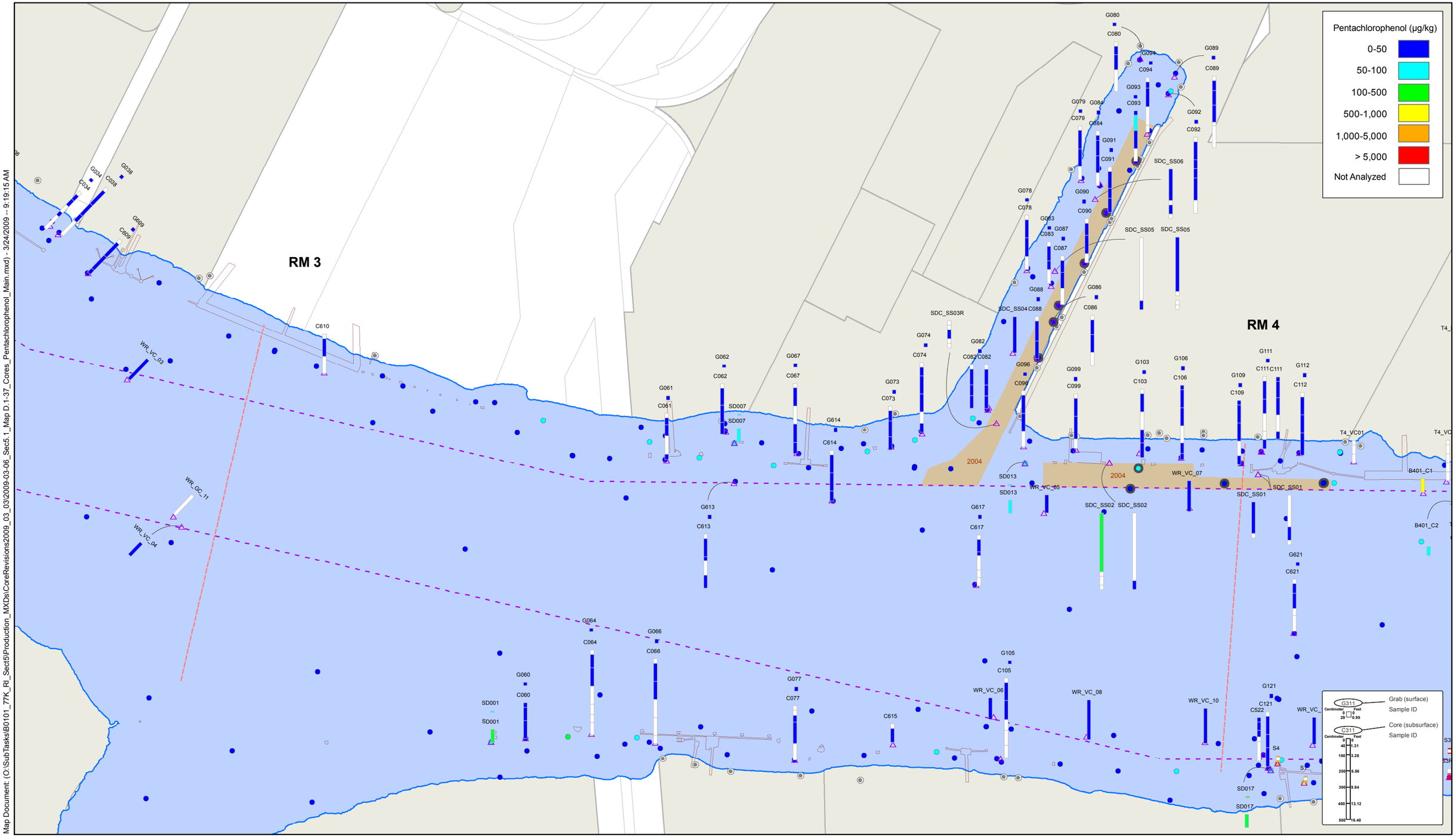
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

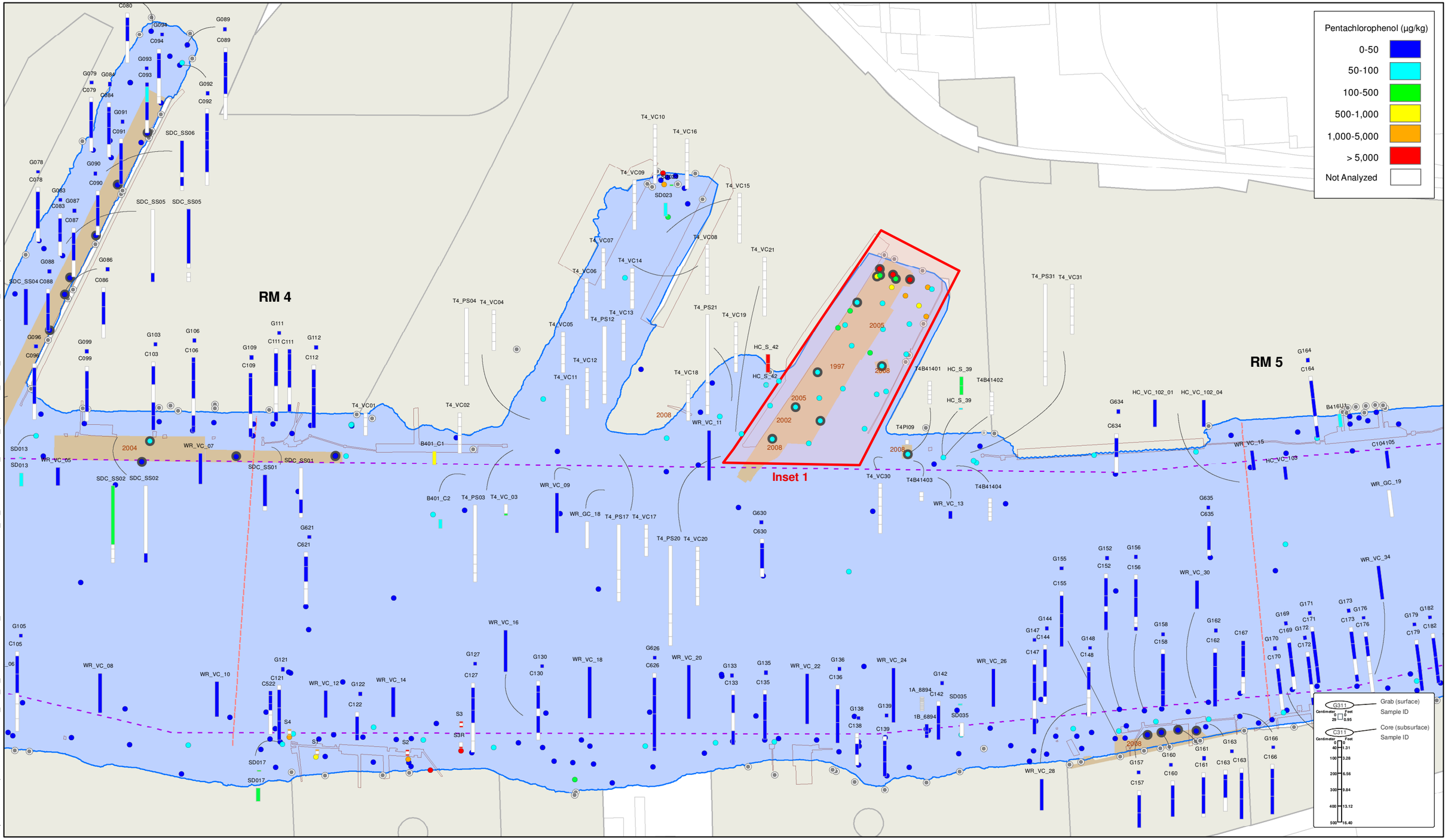
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53 d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

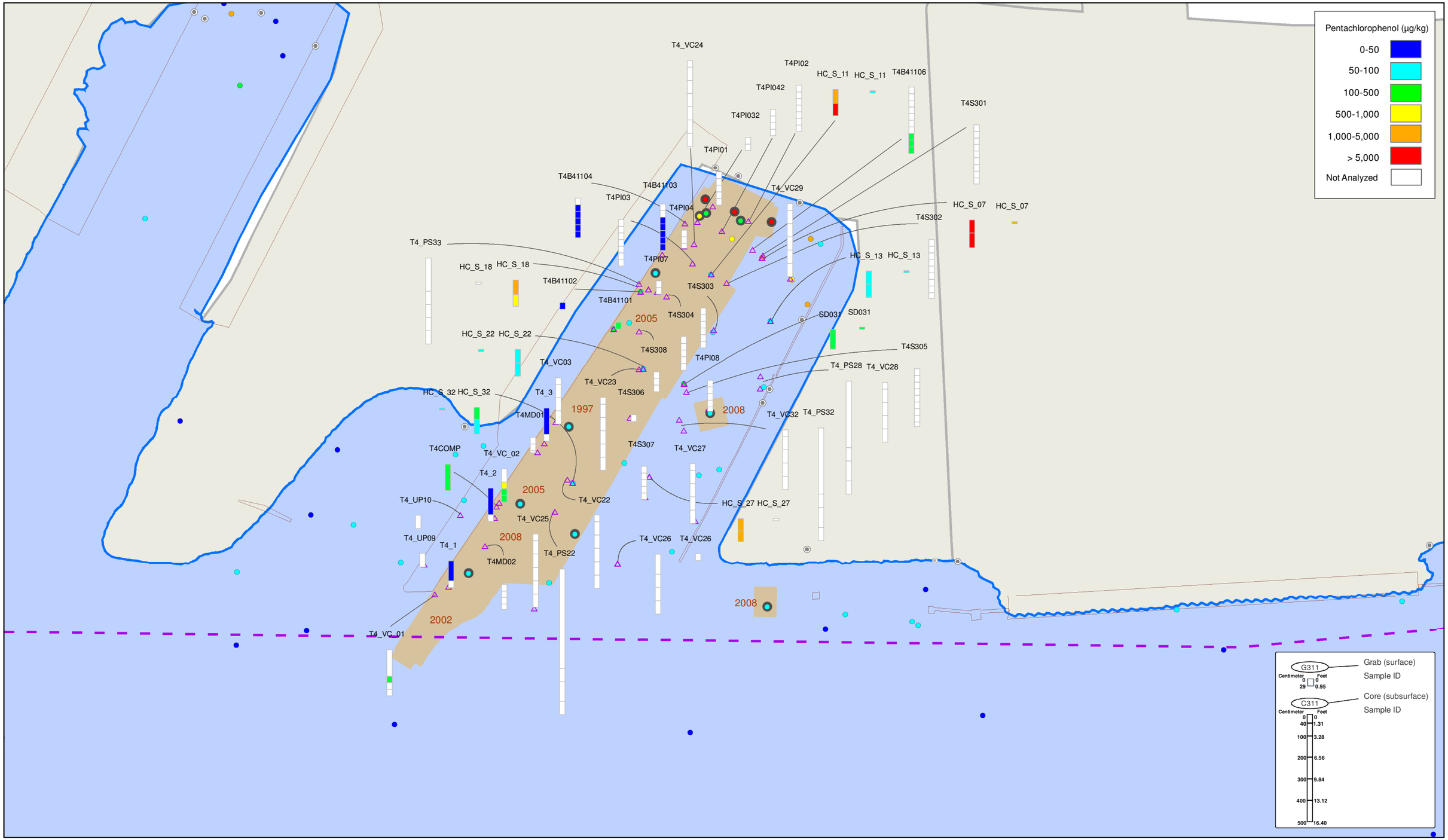
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 04 to 05 - Slips



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

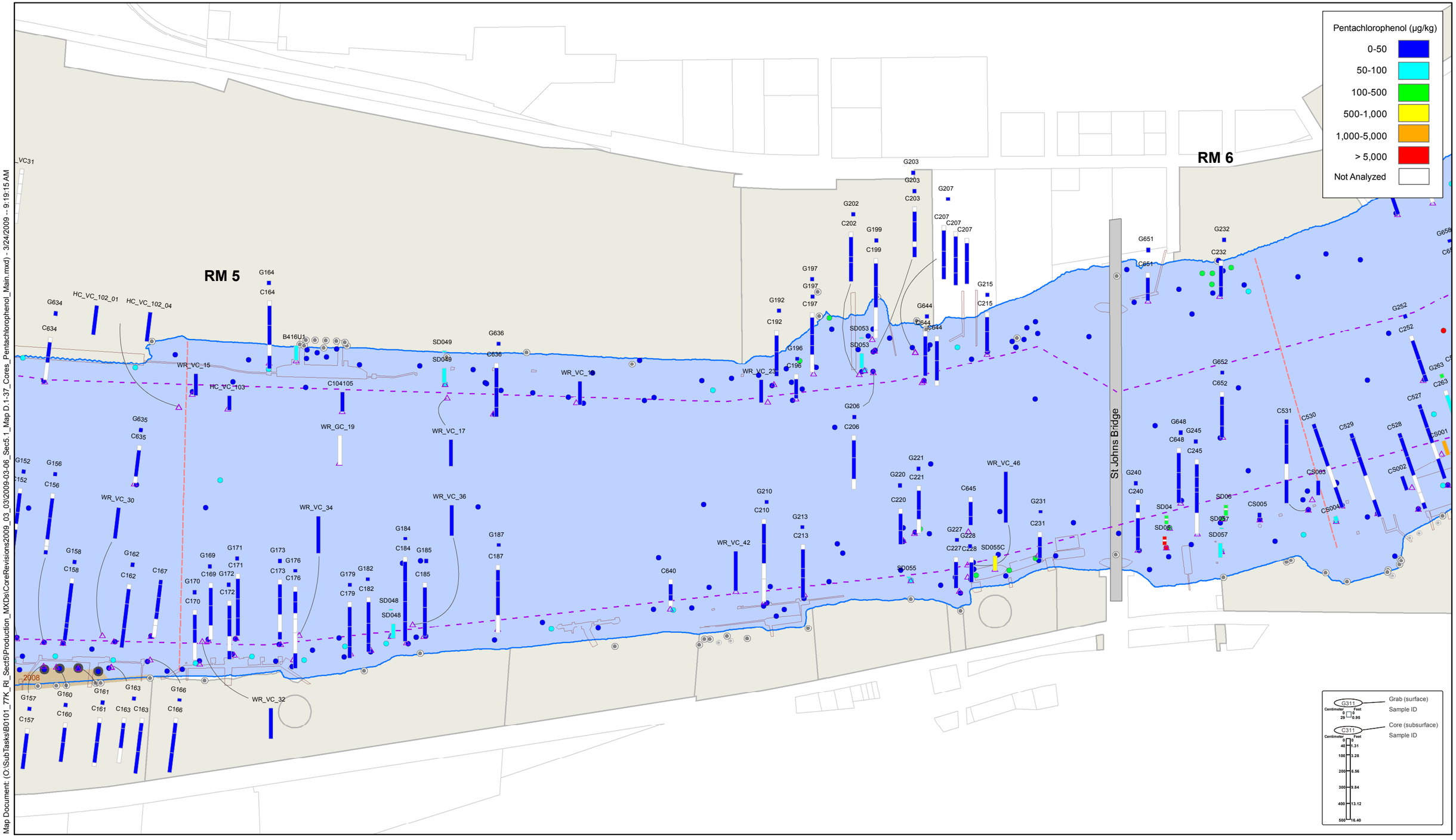
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 04 to 05 - Slips - Inset 1



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

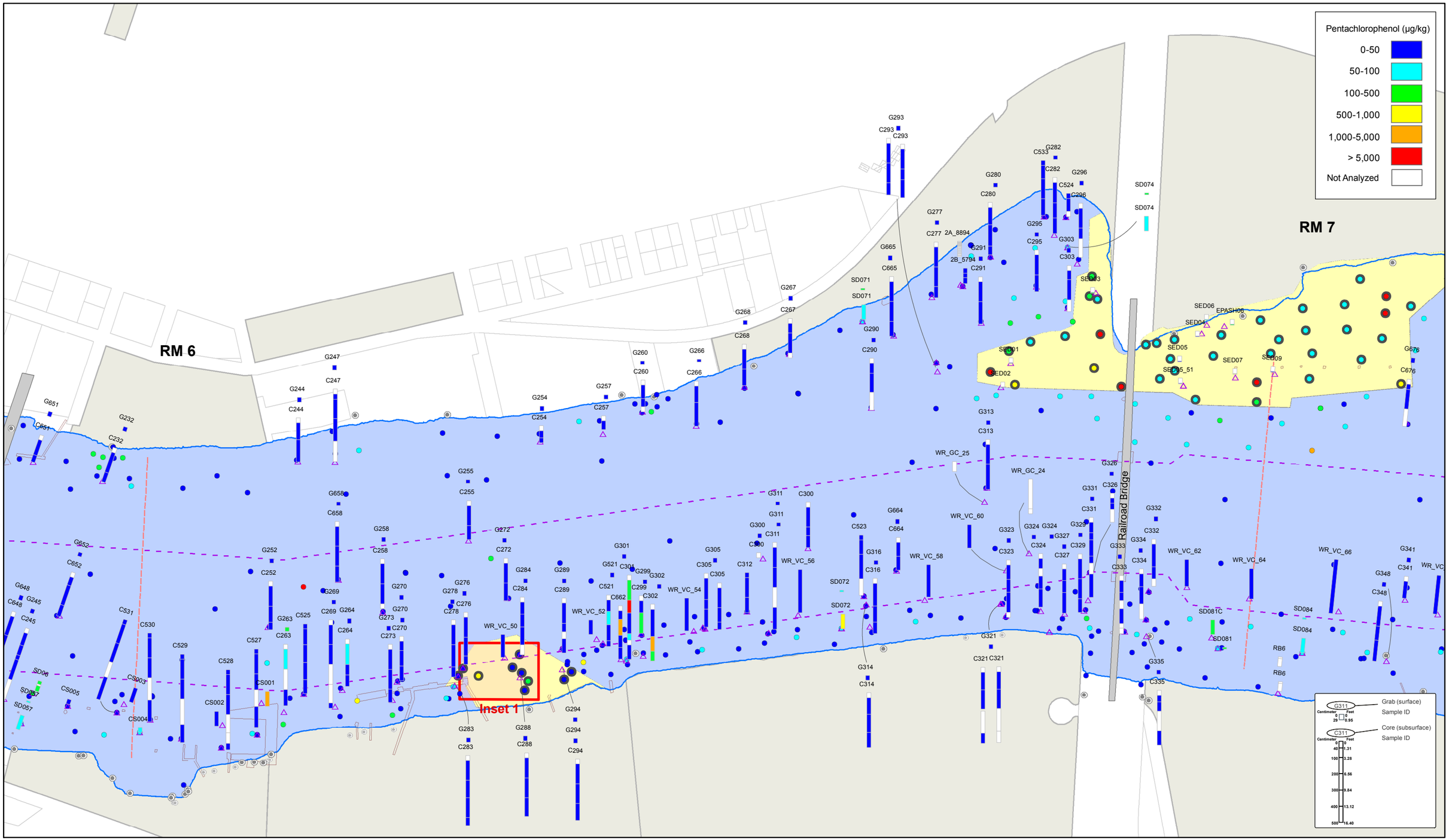
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 05 to 06



Map Document: (Q:\SubTasks\B0101_7TK_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features
- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

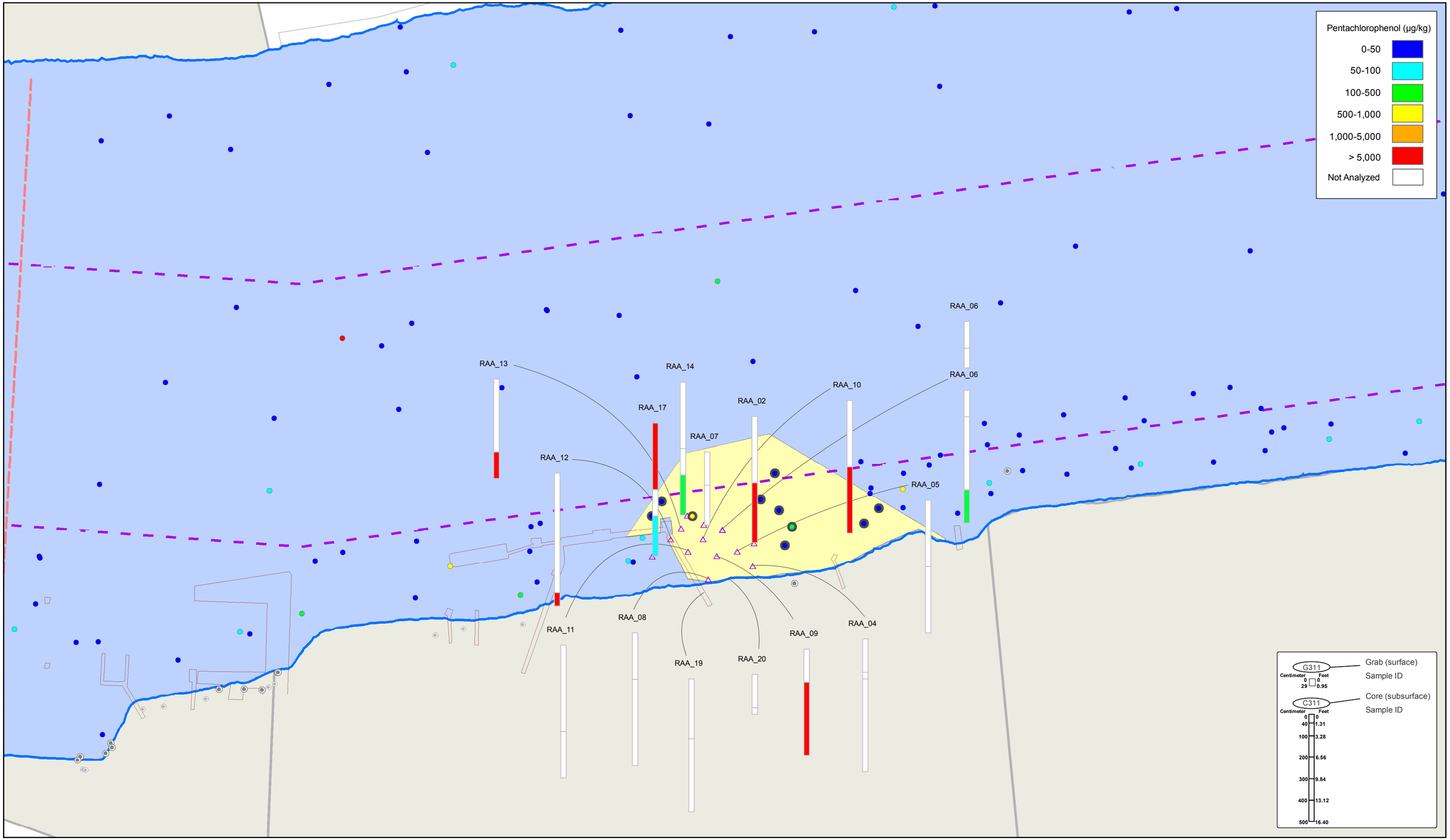
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Insets.mxd) - 3/24/2009 -- 9:18:52 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

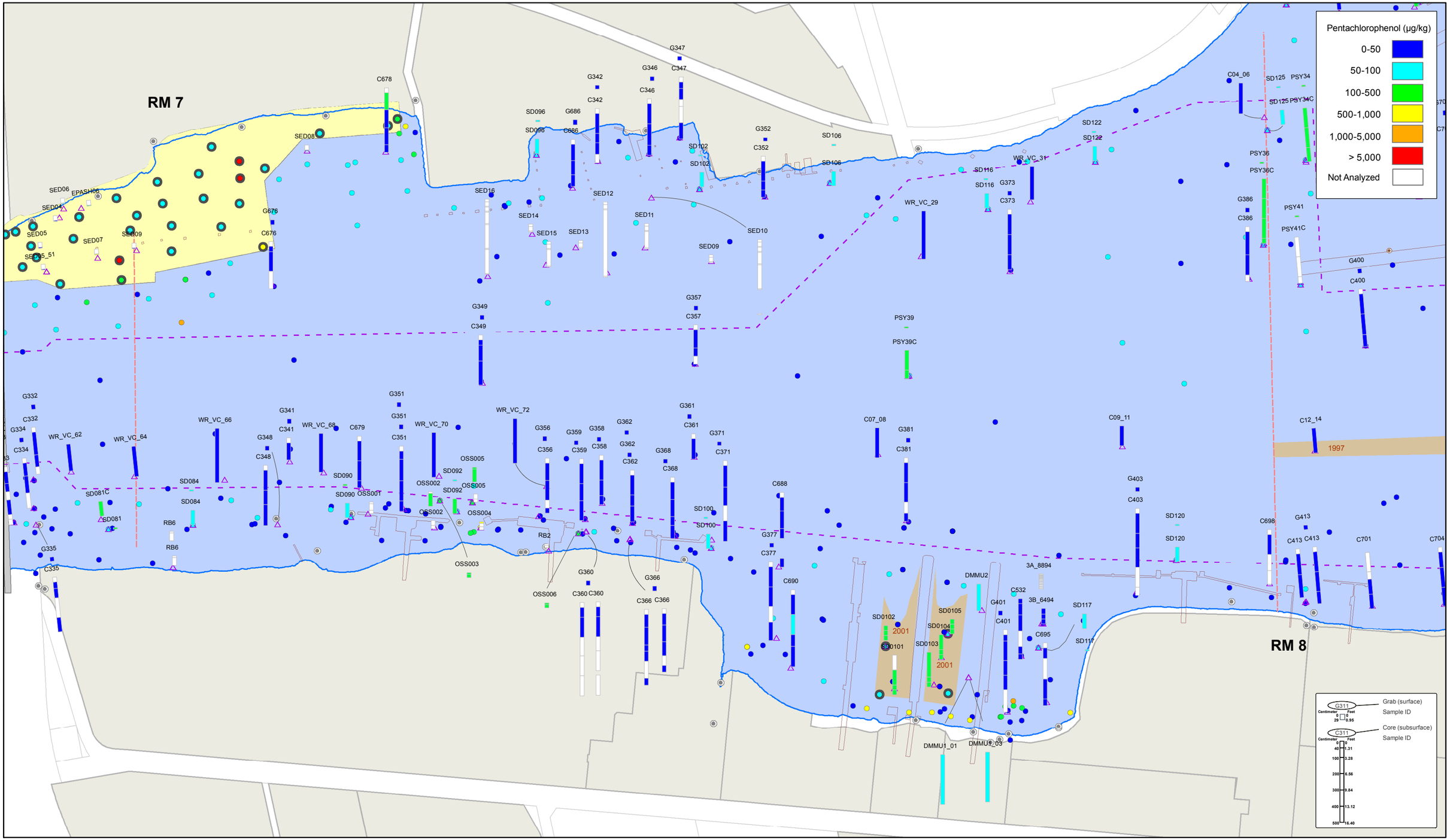
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 06 to 07 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features
- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

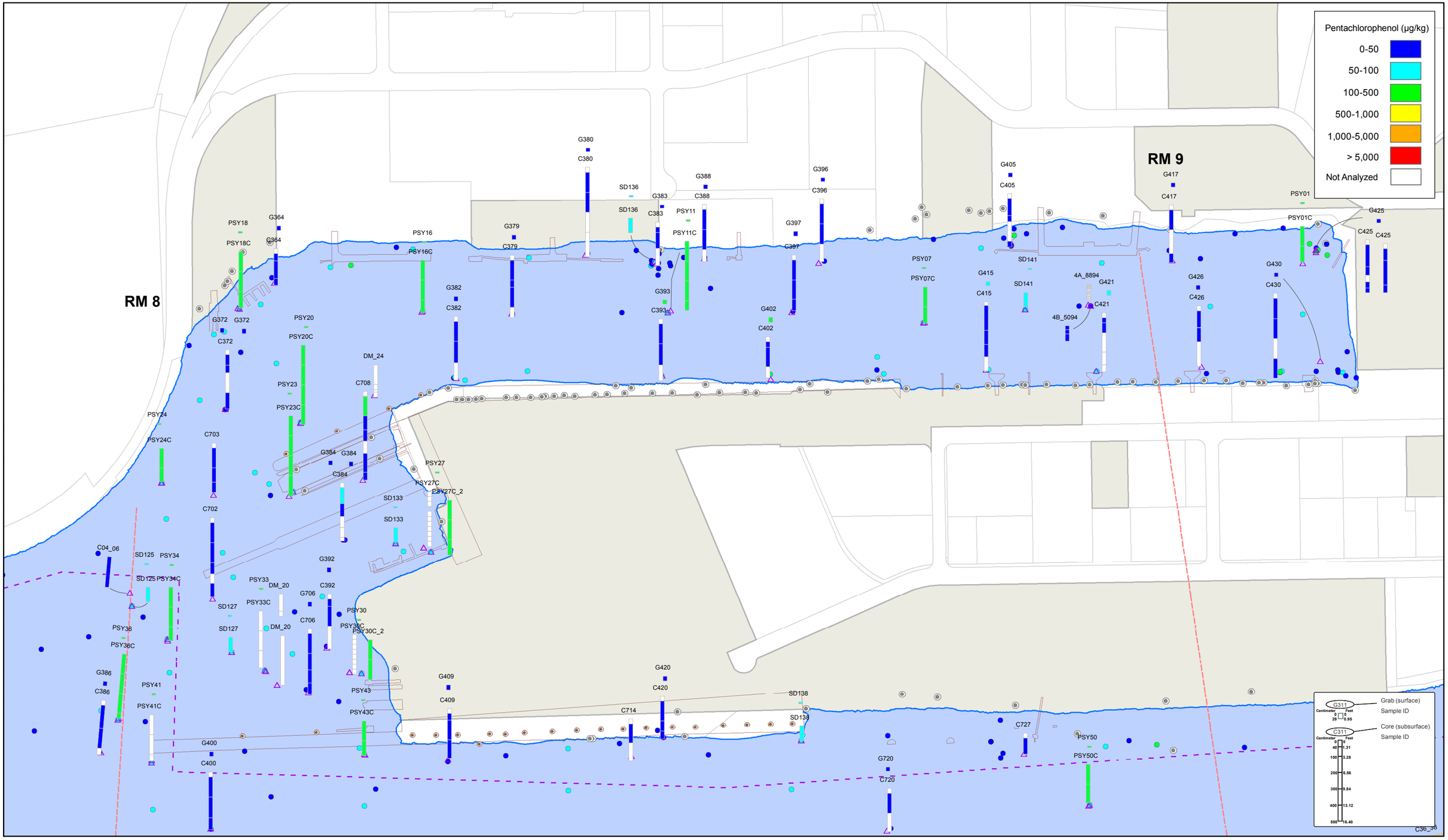
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 07 to 08

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

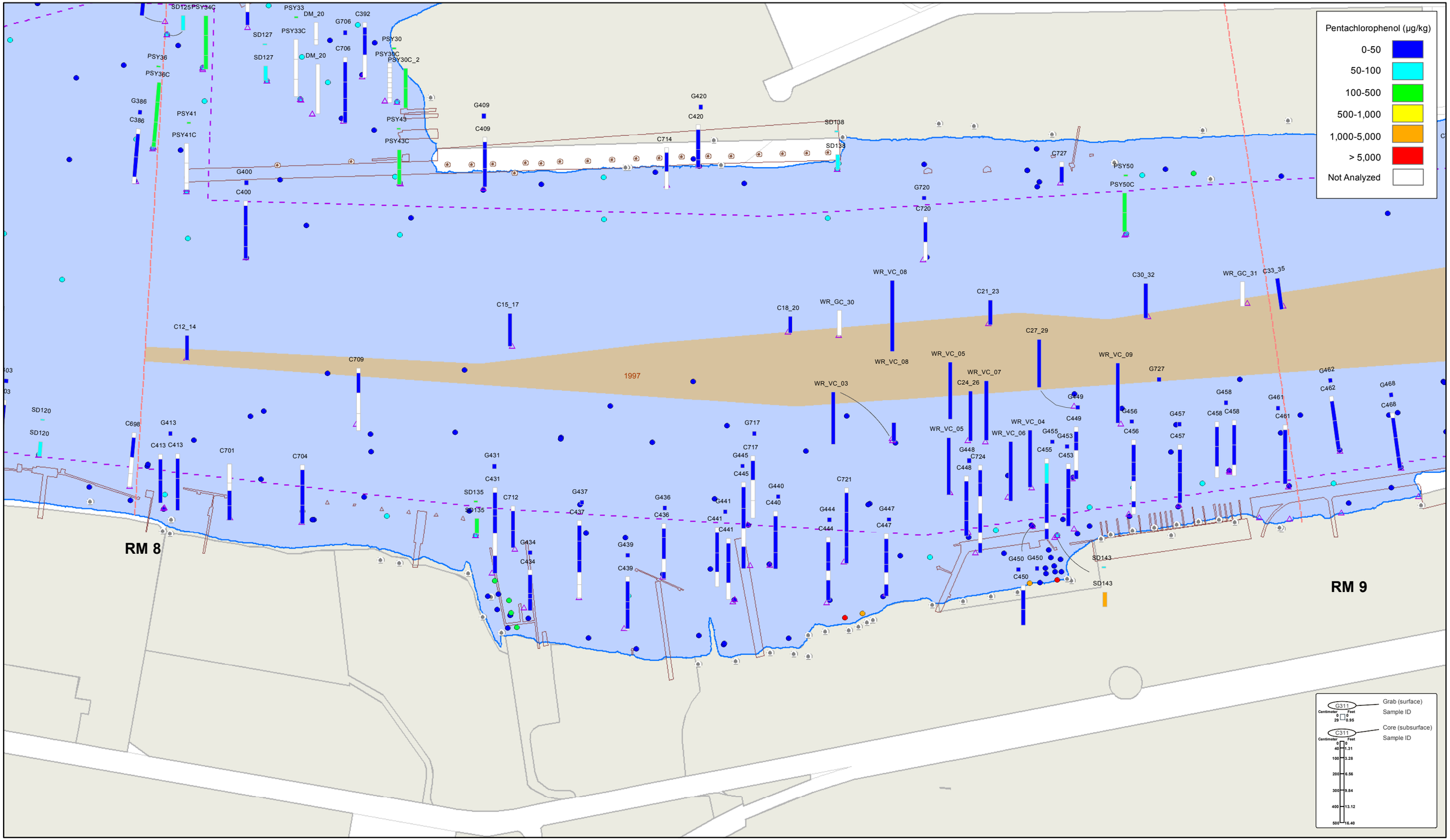
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 08 to 09 - Swan Is. East



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) 4/14/2009 -- 3:04:24 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

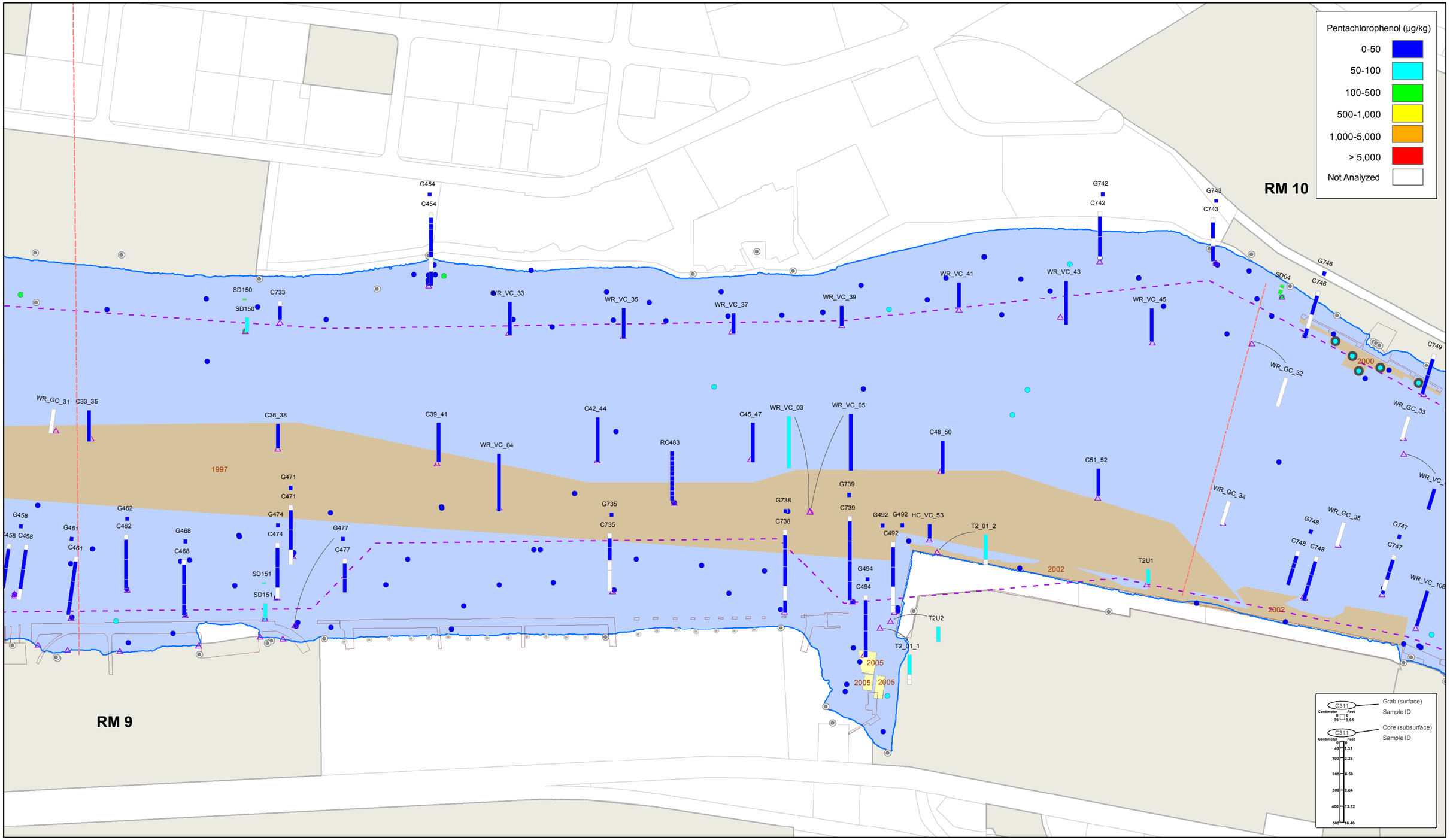
Map Features
- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)
River Mile 08 to 09 - Swan Is. West



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

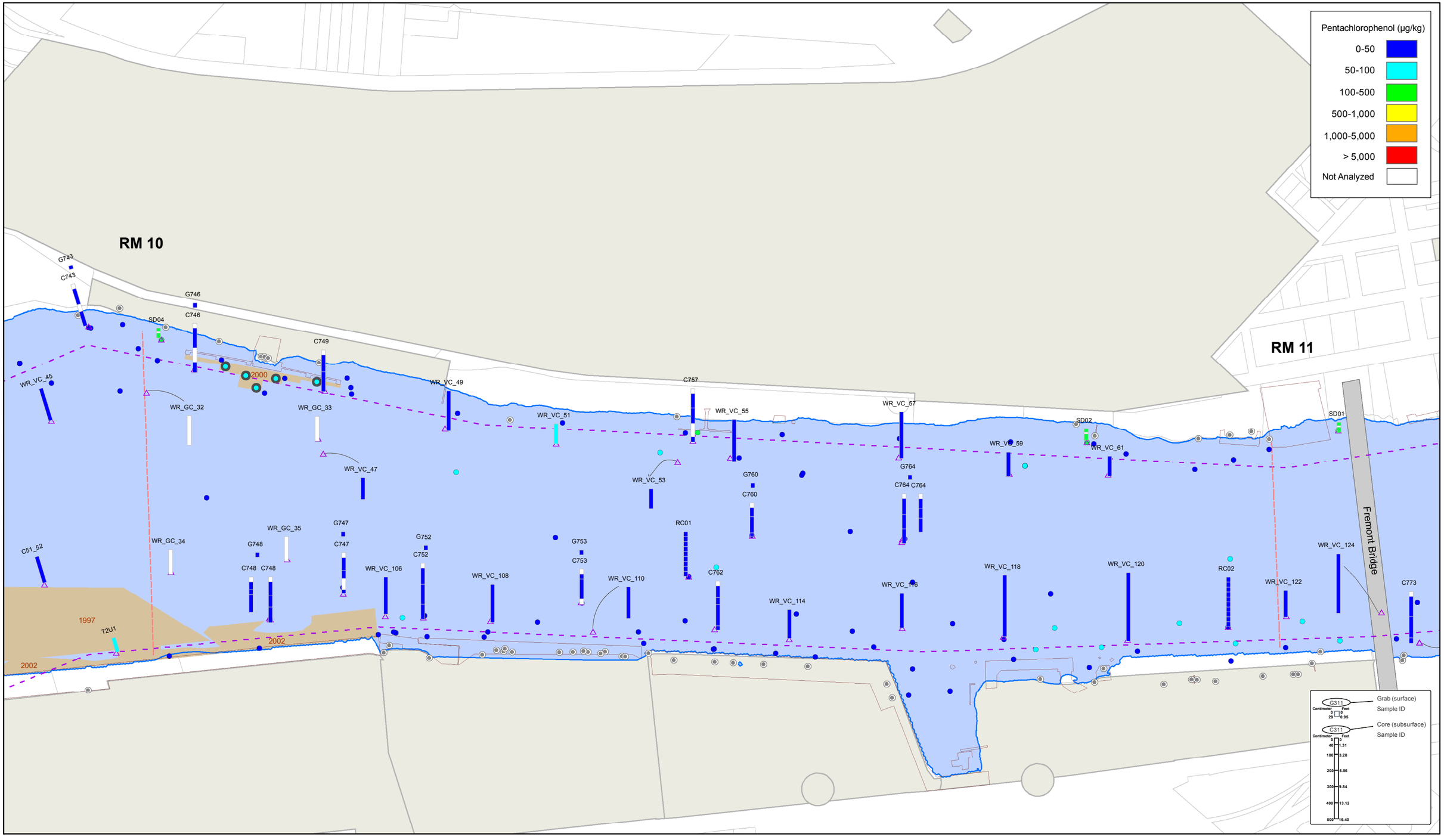
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

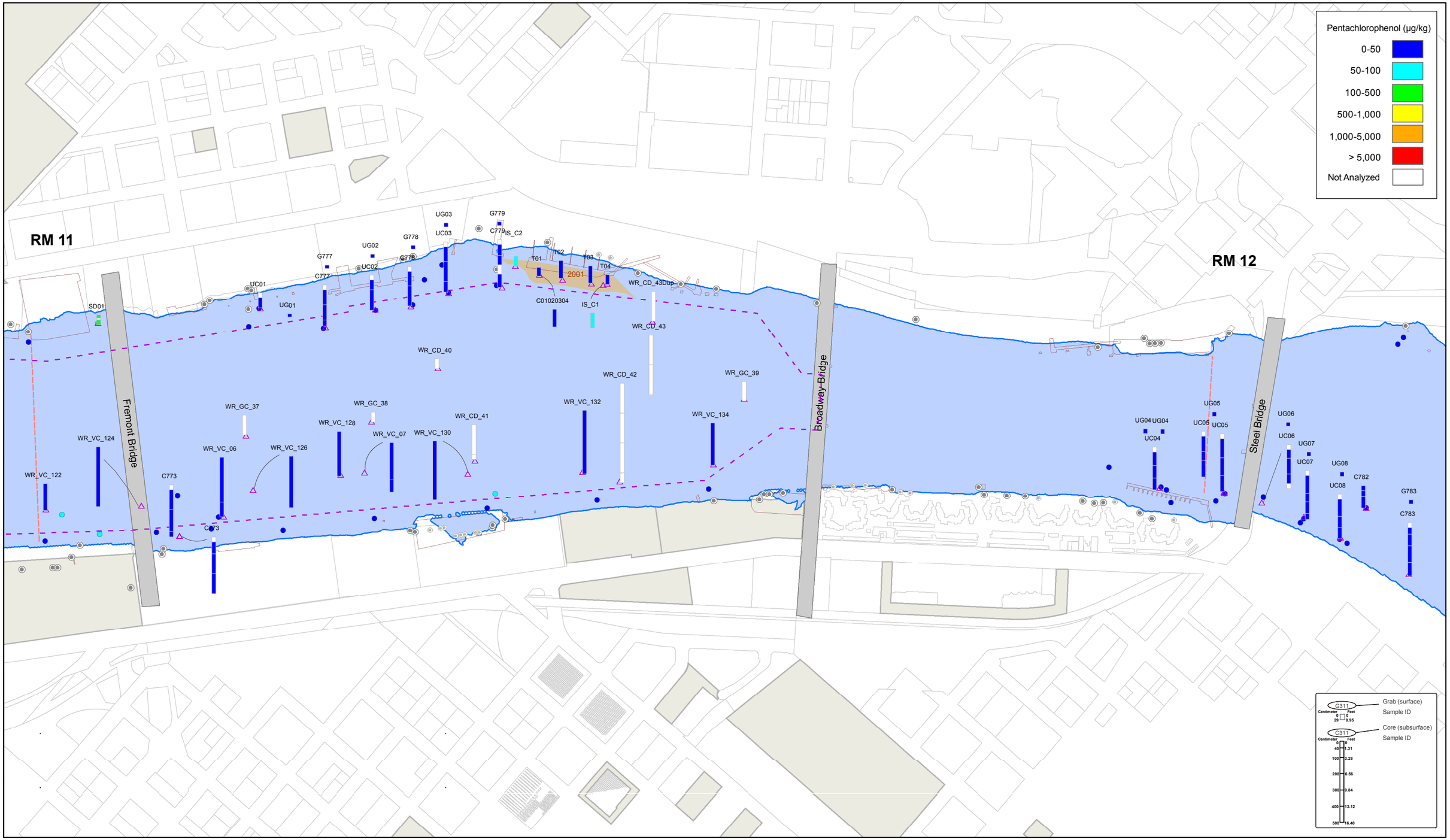
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 10 to 11



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

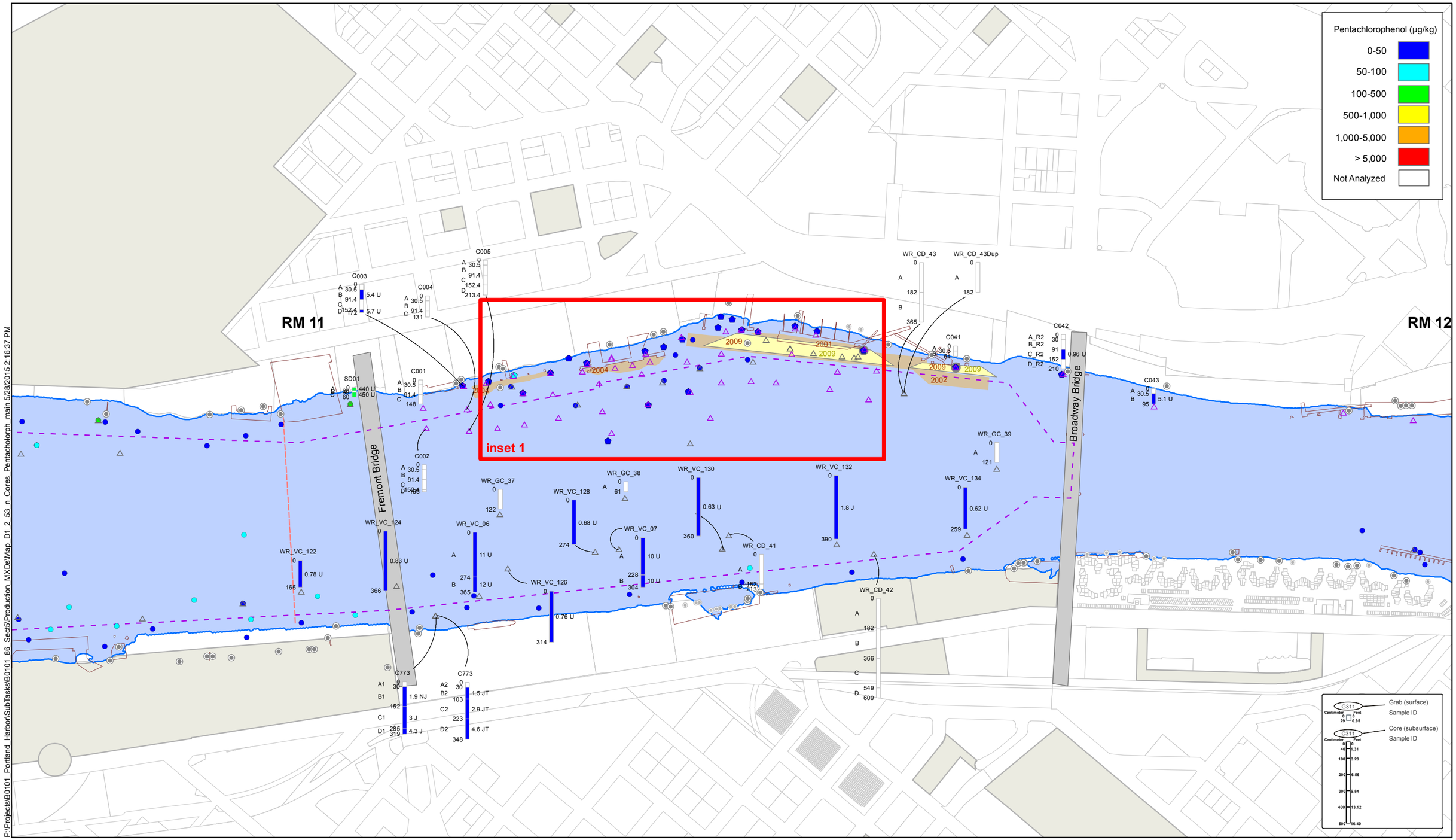
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 11 to 12

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-37_Cores_Pentachlorophenol_Main.mxd) - 3/24/2009 -- 9:19:15 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

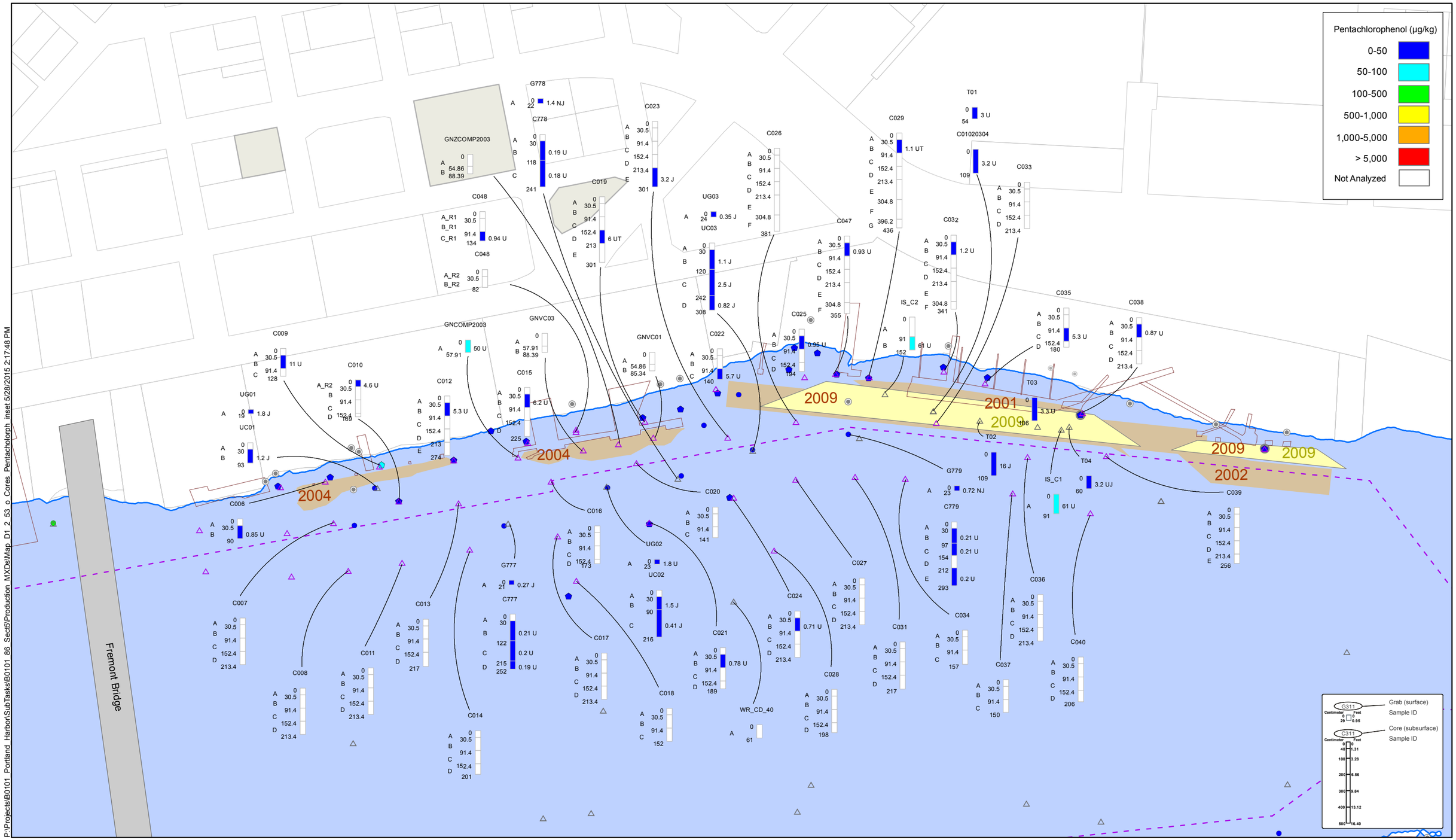
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_53_n_Cores_Pentachlorph_main 5/28/2015 2:16:37 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

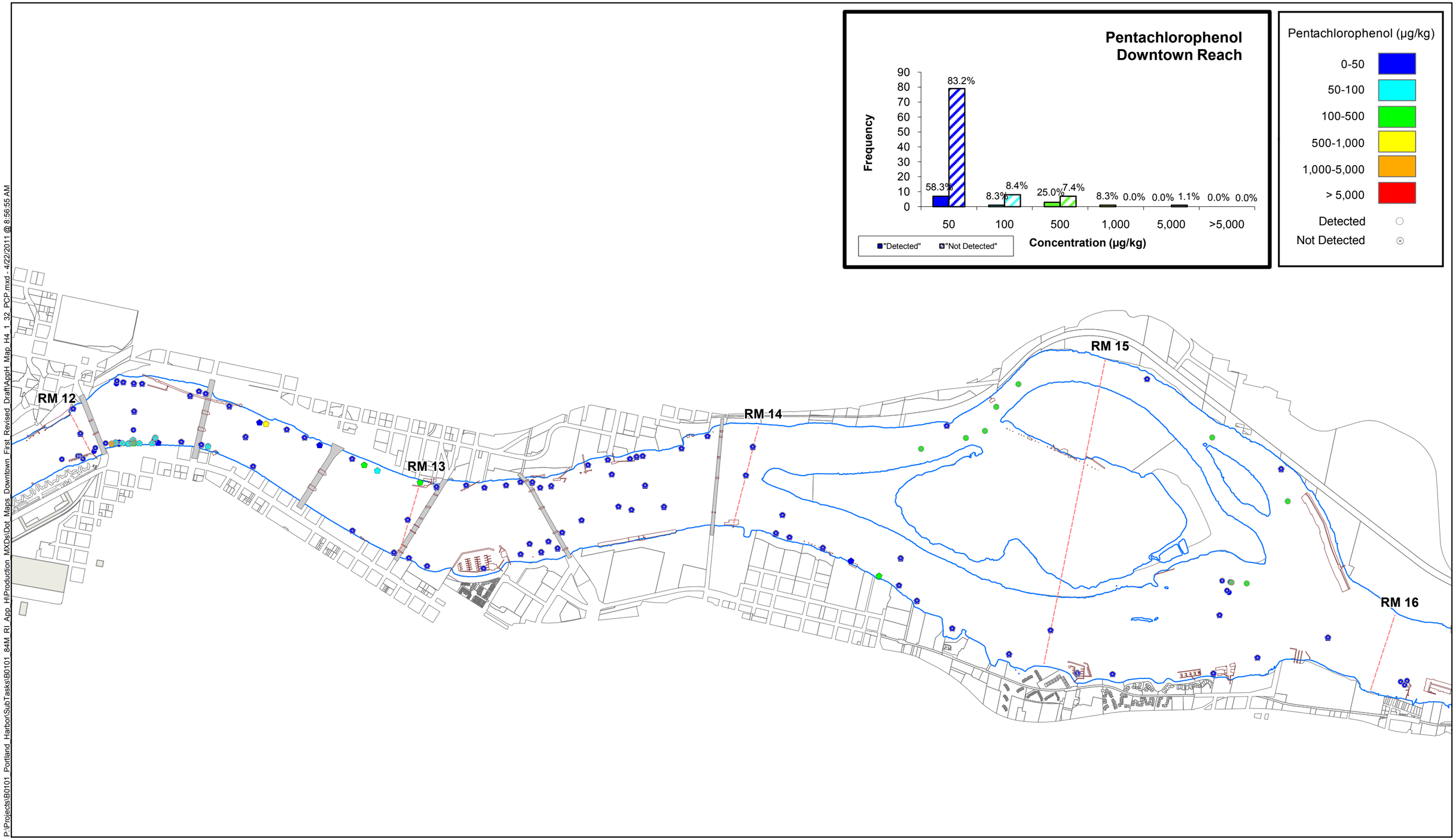
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-53o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Pentachlorophenol (µg/kg)

River Mile 11.0 - 11.8 - Inset 1



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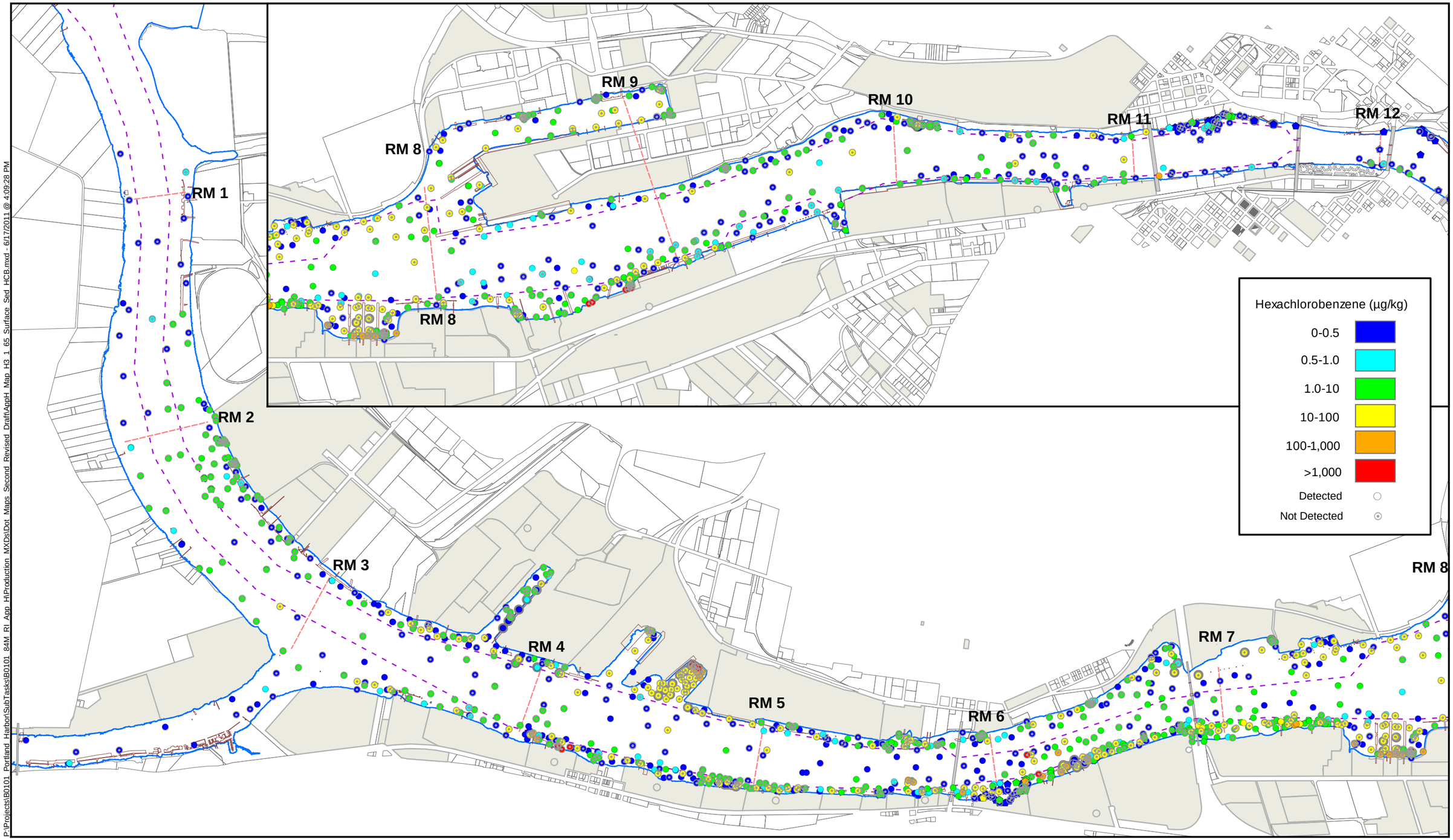
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-54
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Pentachlorophenol (µg/kg)
Downtown Reach



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

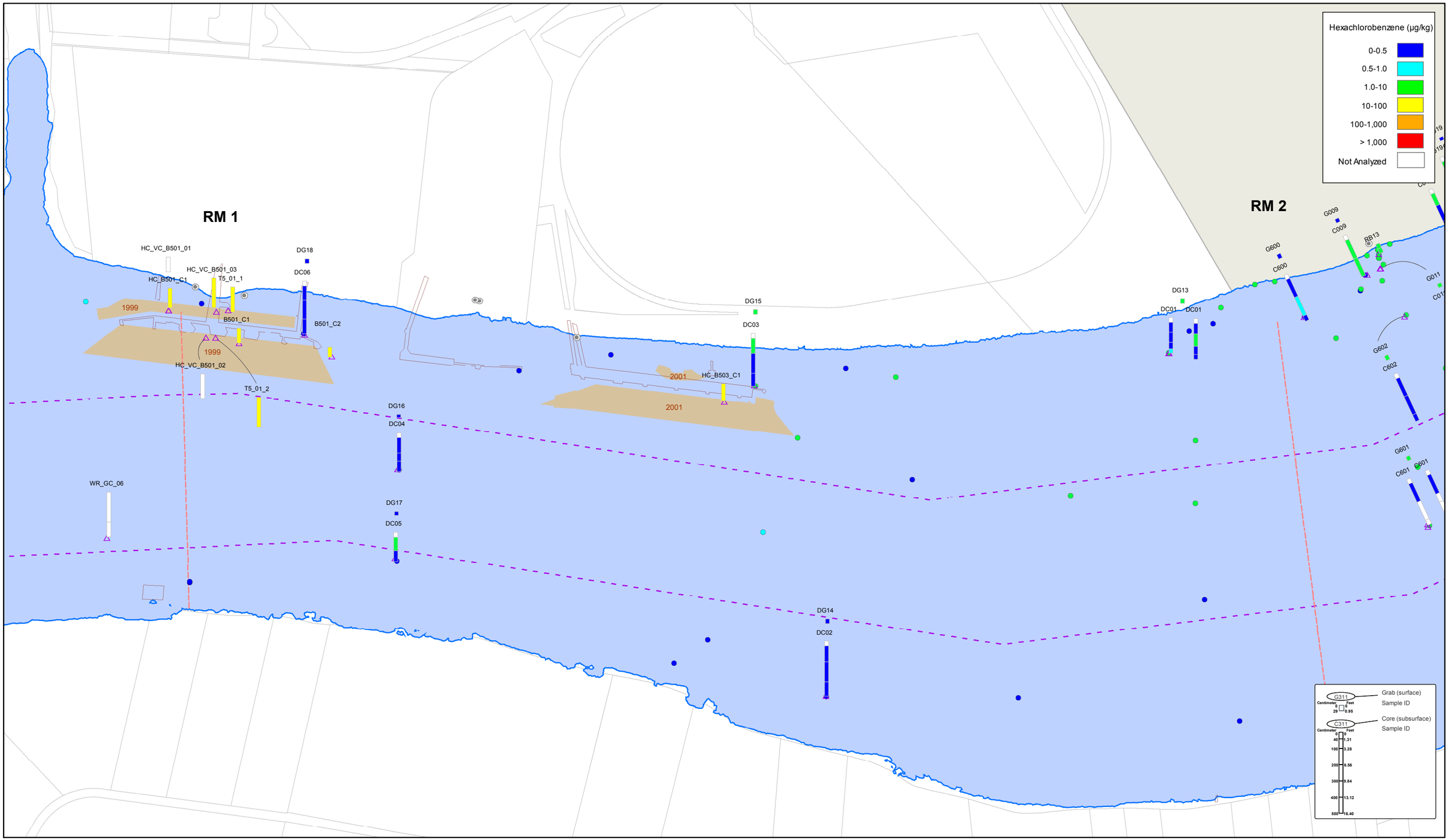
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-55
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Hexachlorobenzene (µg/kg)

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-39_Cores_Hexachlorobenzene_Main.mxd) - 3/12/2009 -- 10:39:32 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

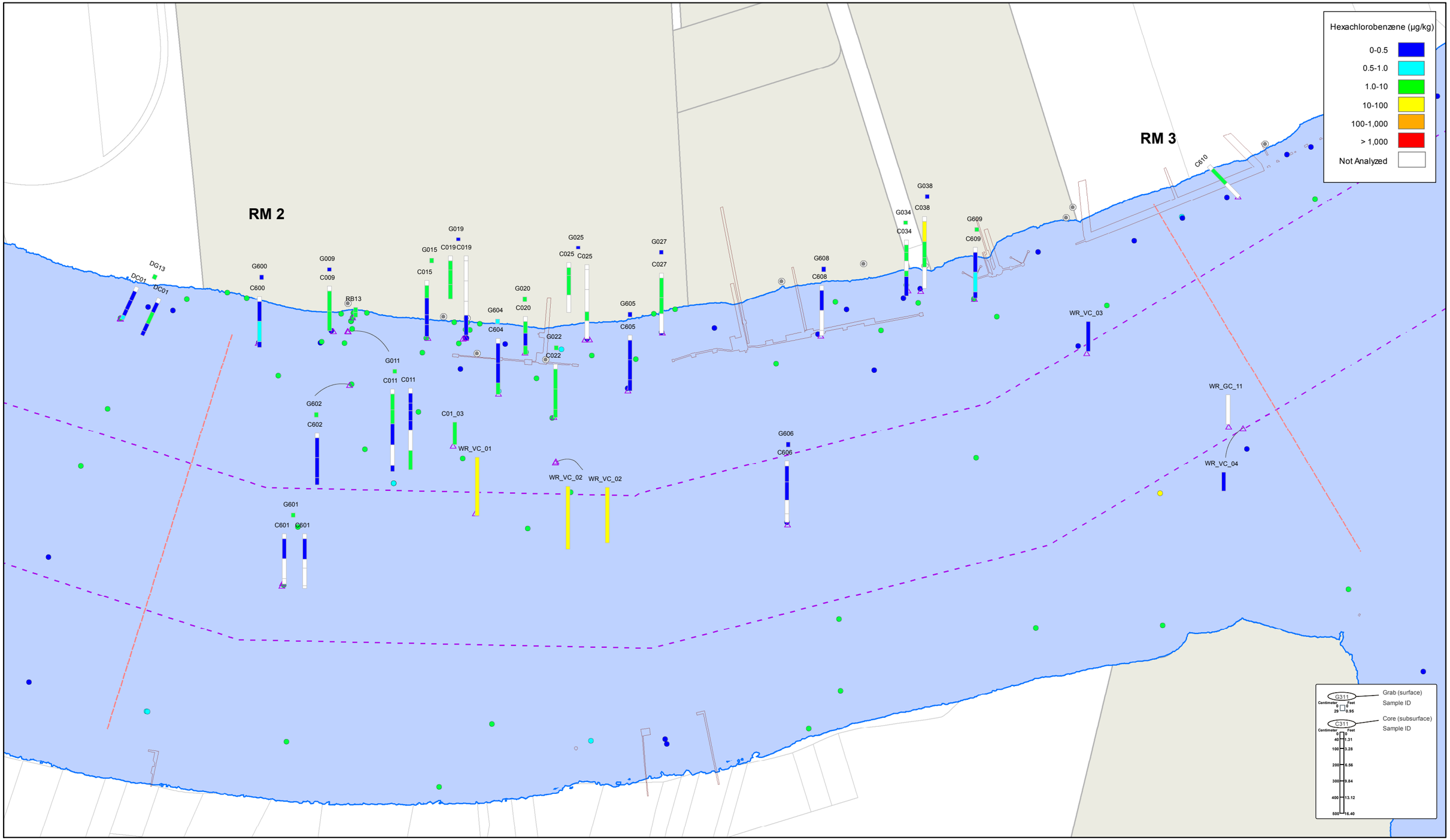
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56a

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-39_Cores_Hexachlorobenzene_Main.mxd) - 3/12/2009 -- 10:39:32 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

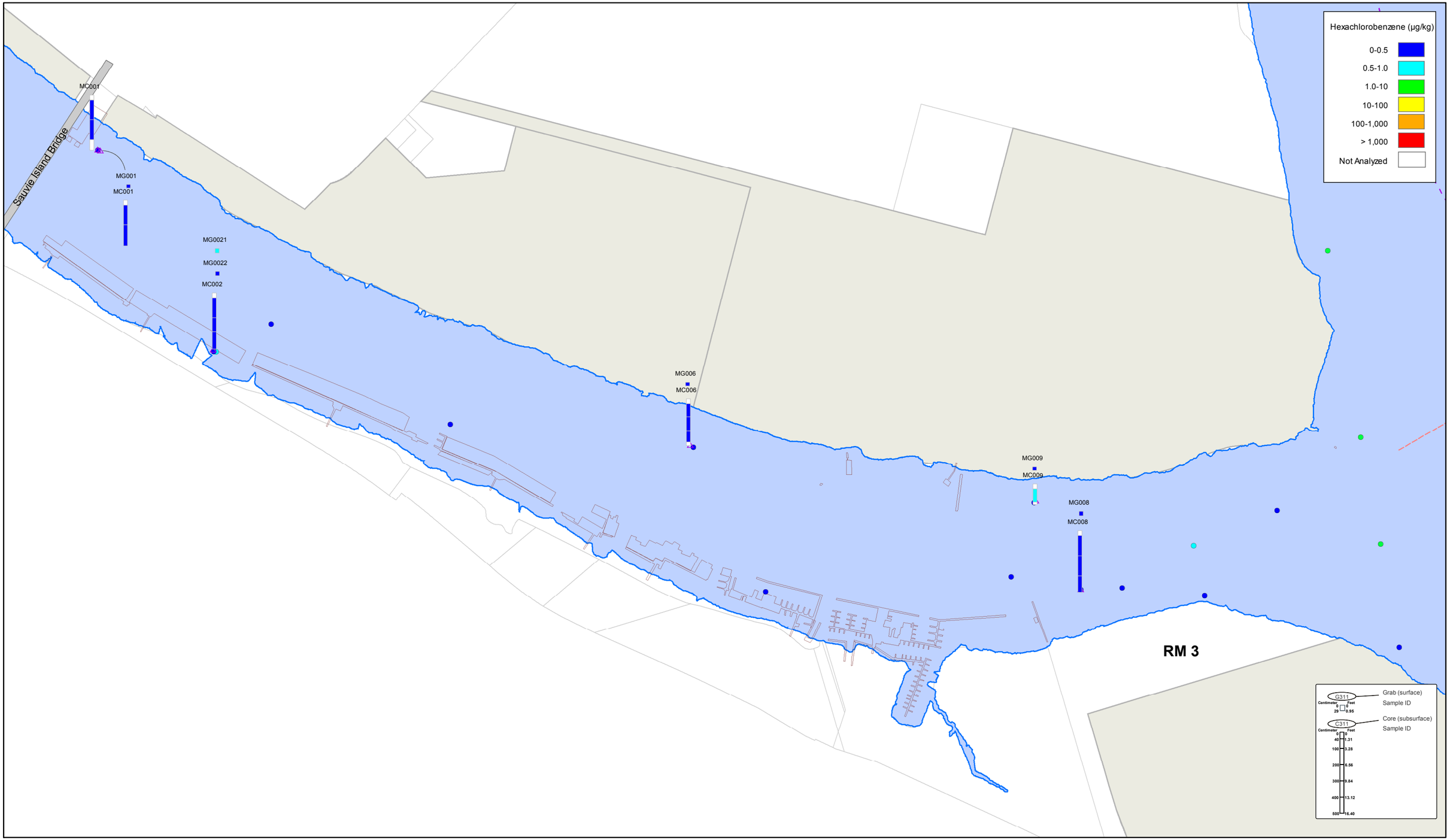
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56 b

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-39_Cores_Hexachlorobenzene_Main.mxd) - 3/12/2009 -- 10:39:32 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

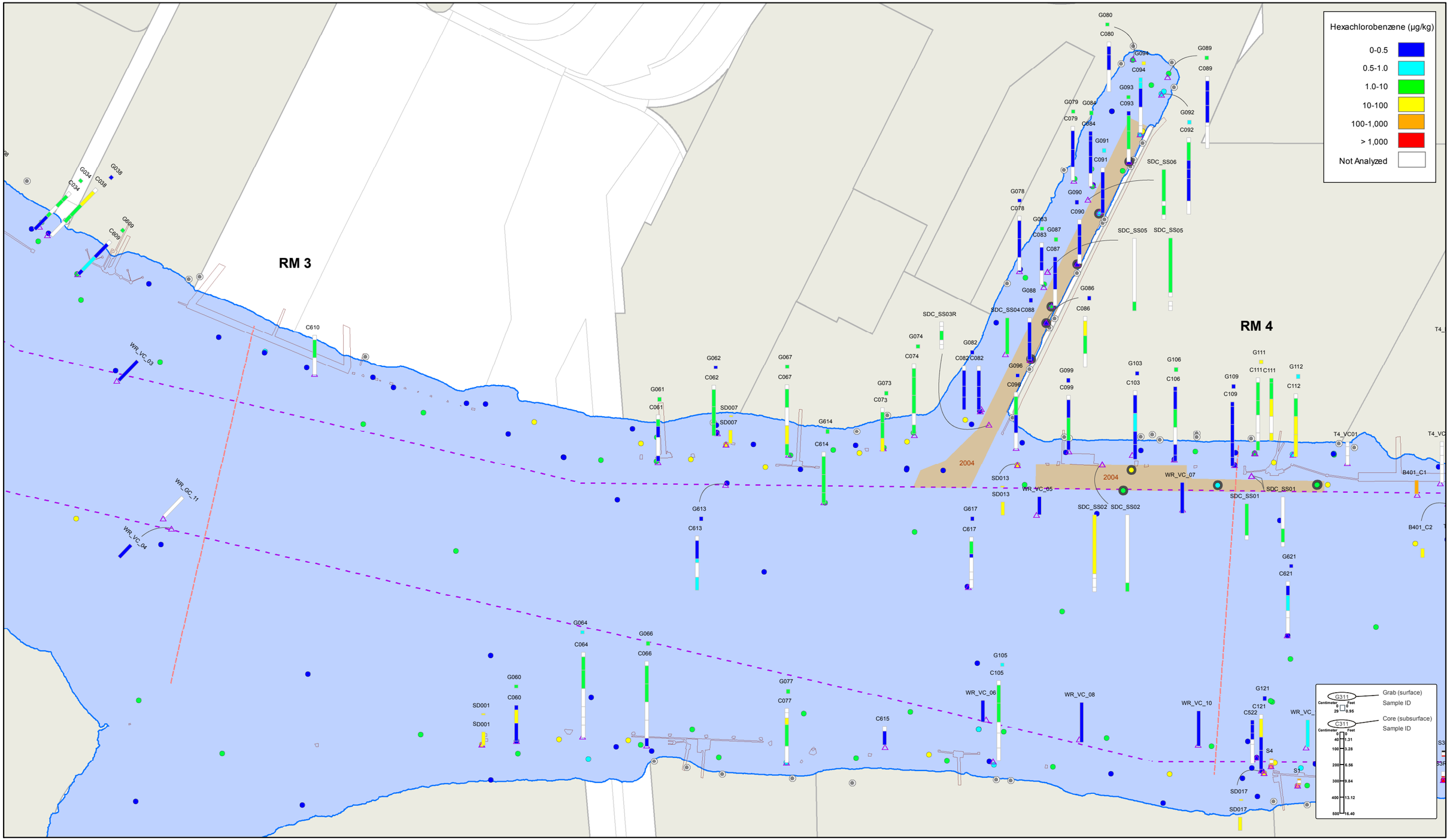
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56c

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 03 - Multnomah Channel

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-39_Cores_Hexachlorobenzene_Main.mxd) - 3/12/2009 -- 10:39:32 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

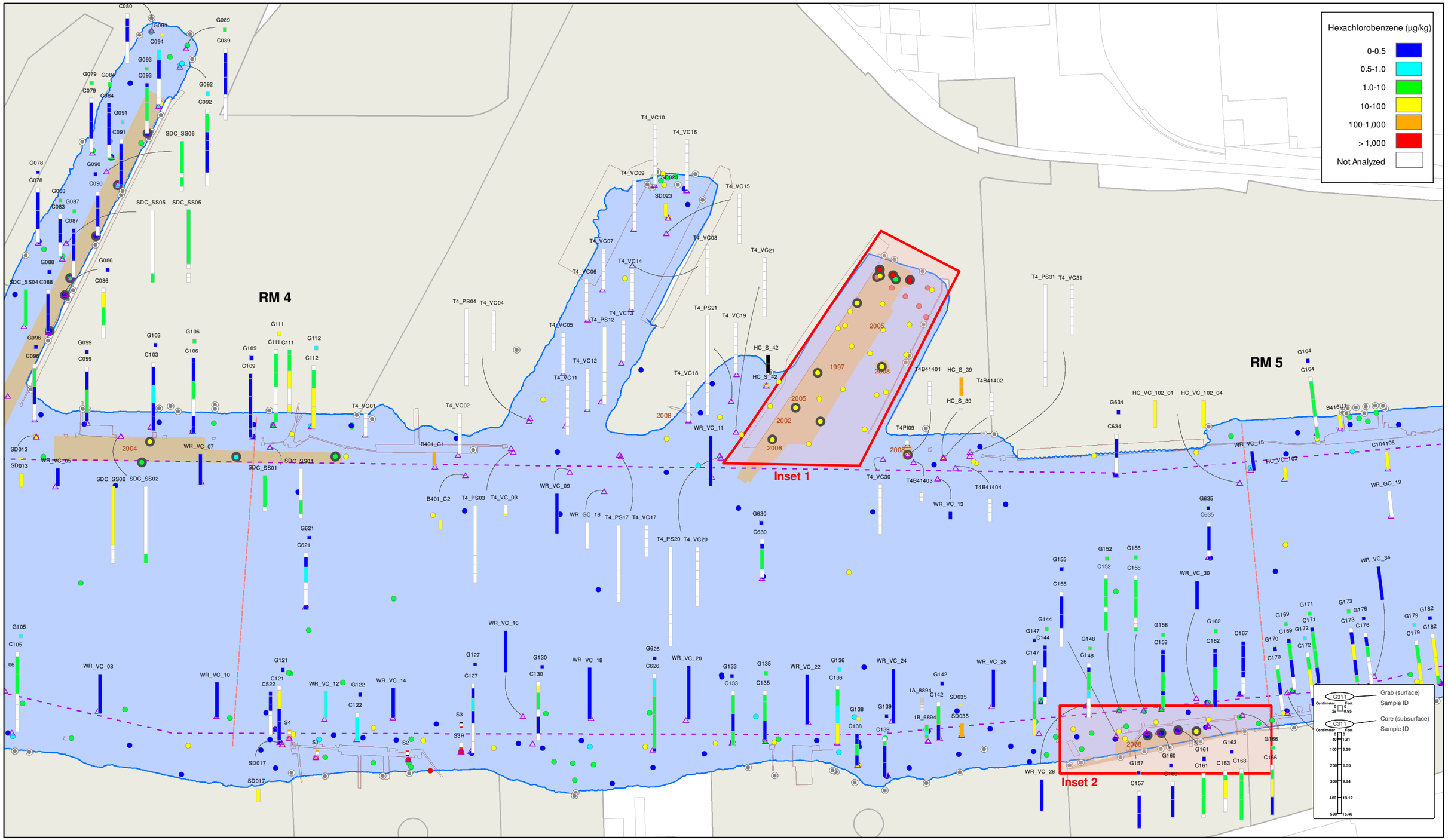
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56 d

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

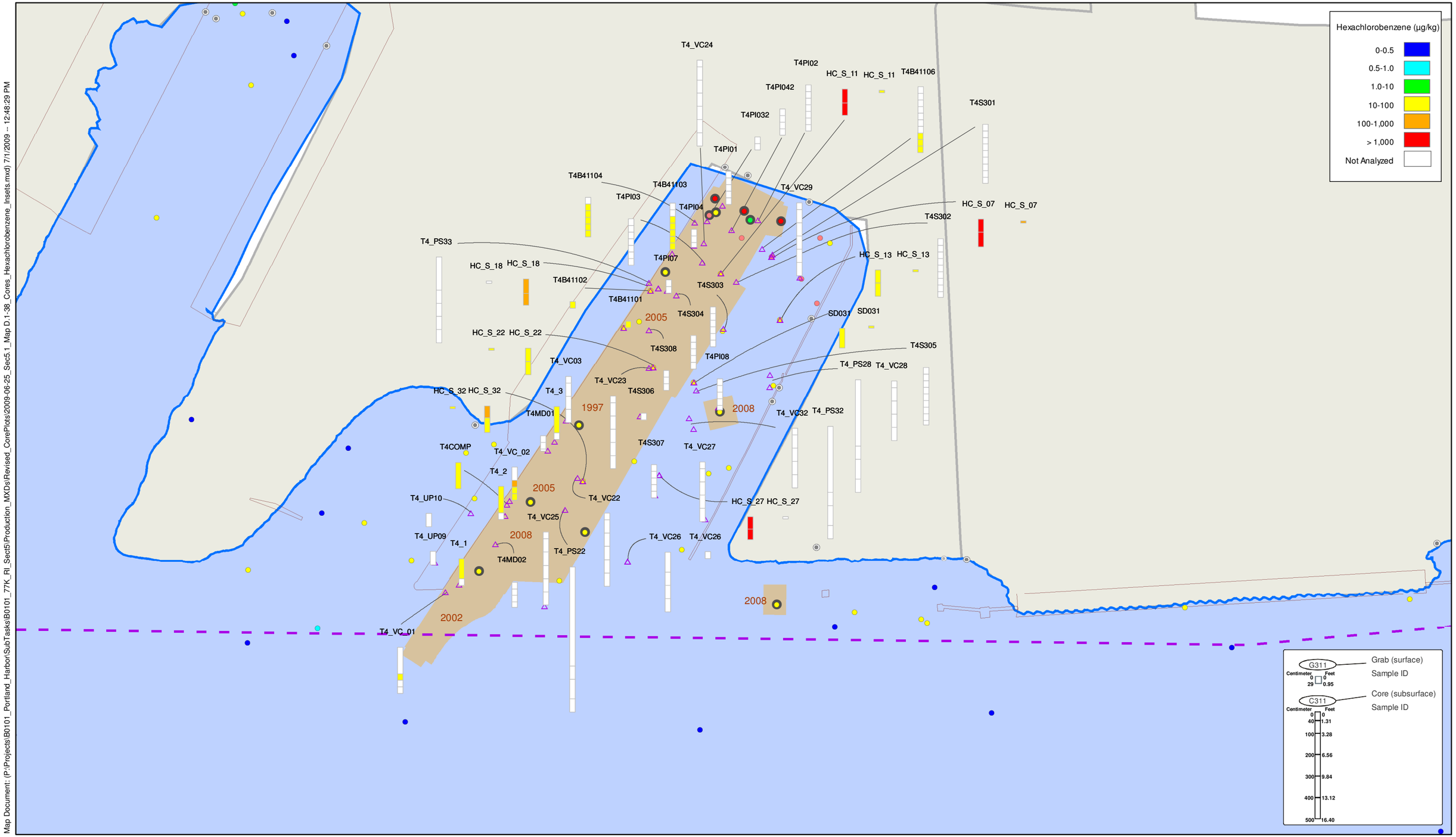
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

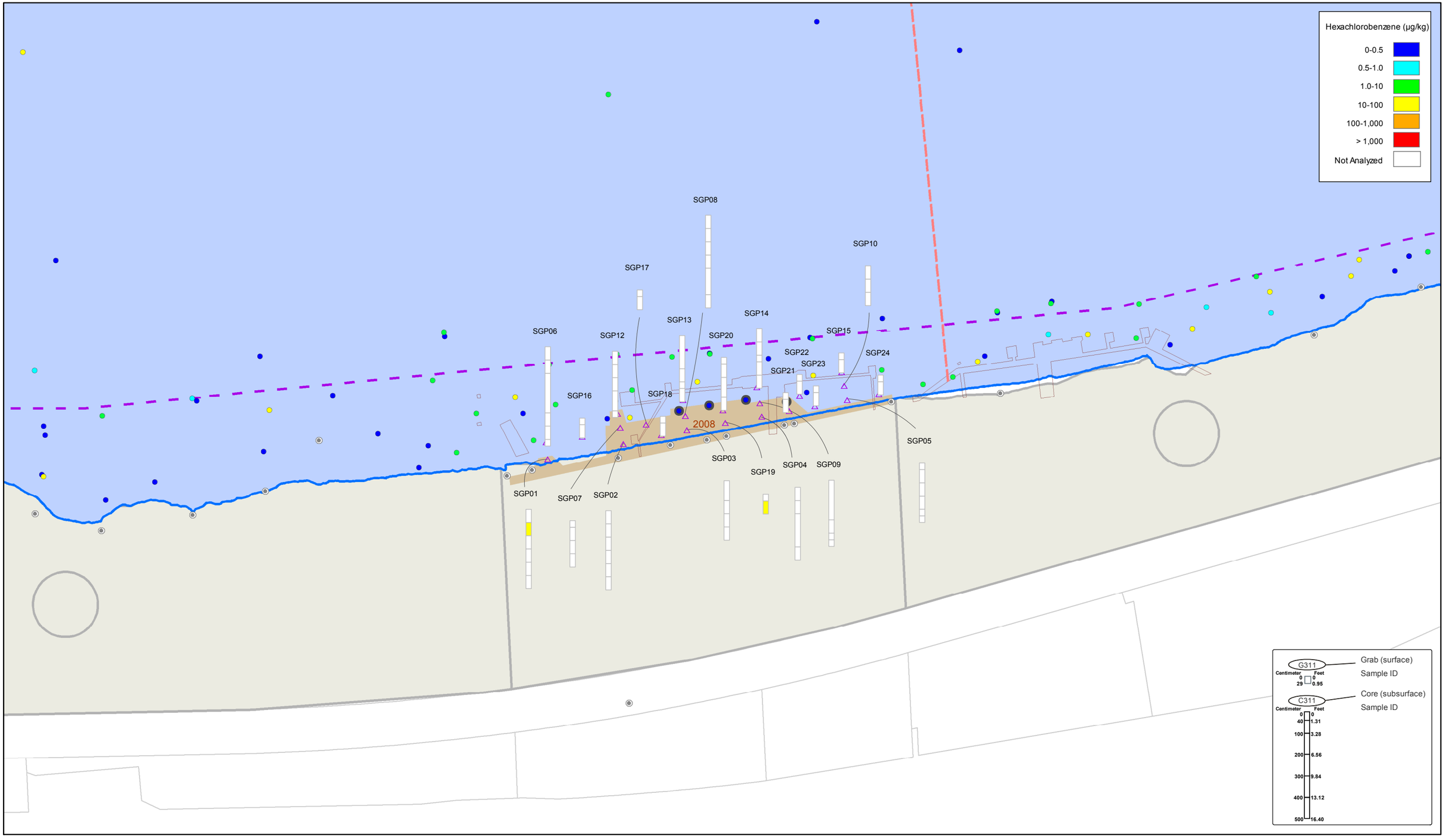
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 04 to 05 - Slips - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

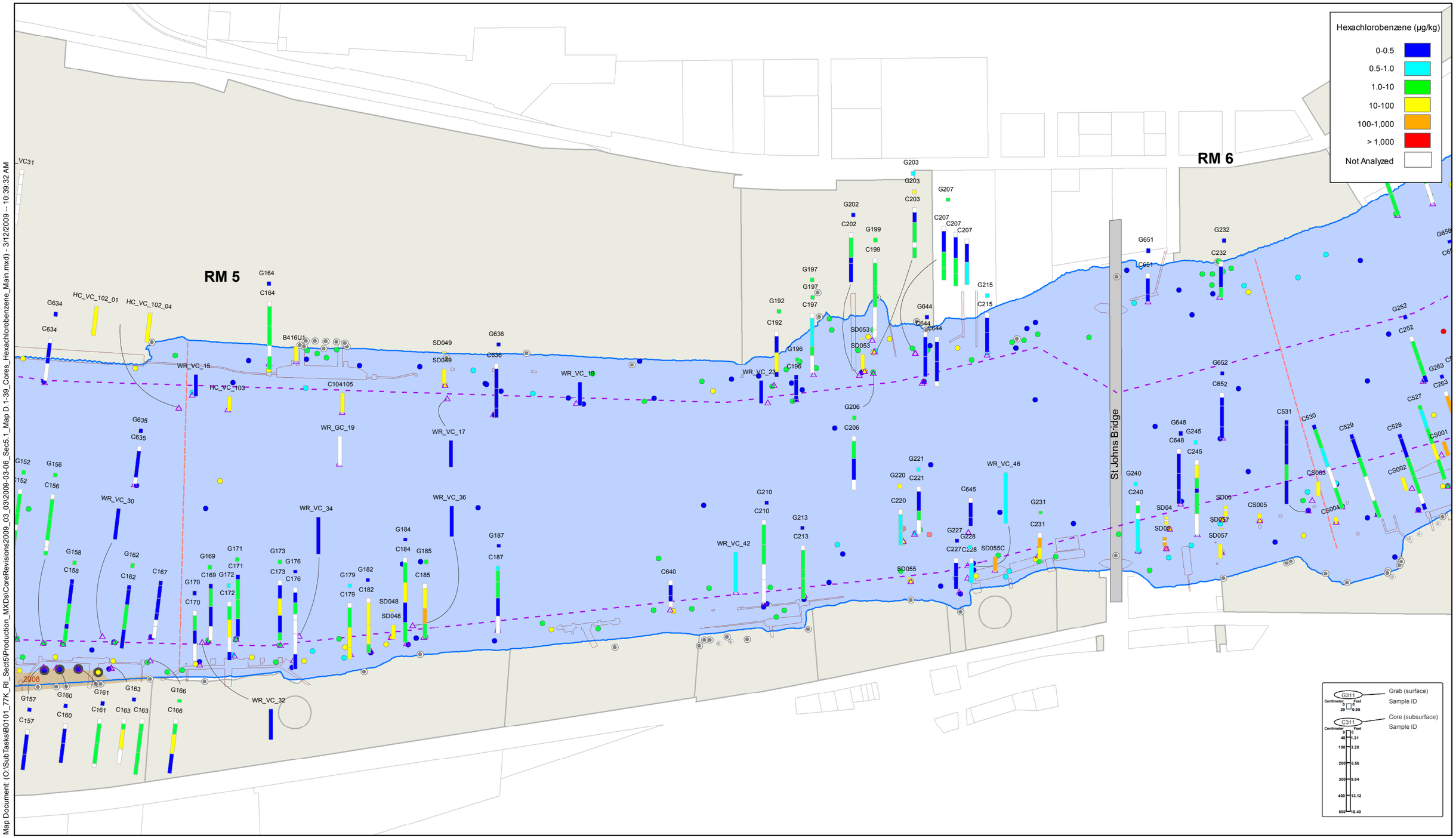
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

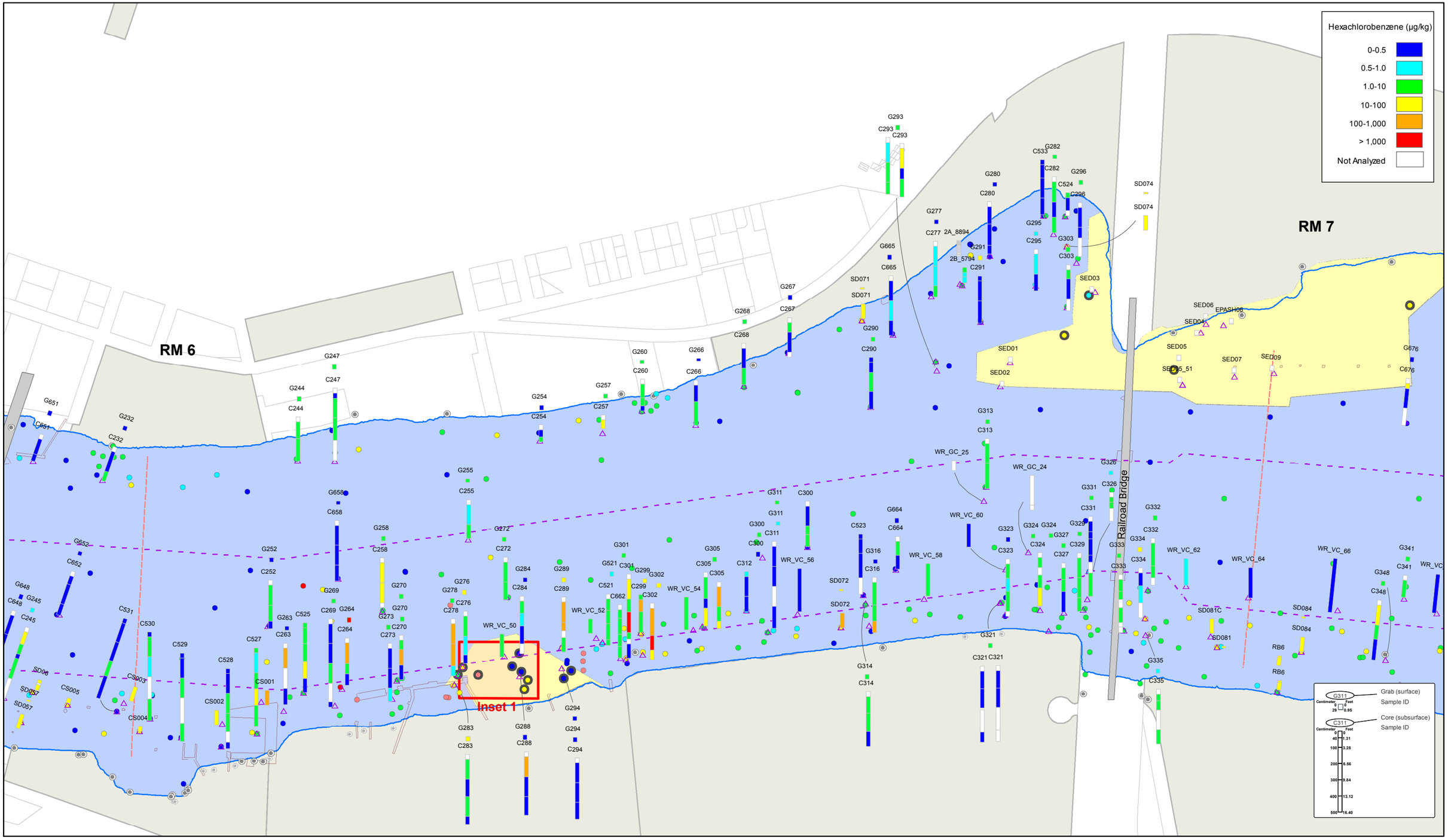
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 05 to 06

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-39_Cores_Hexachlorobenzene_Main.mxd) - 3/12/2009 -- 10:39:32 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

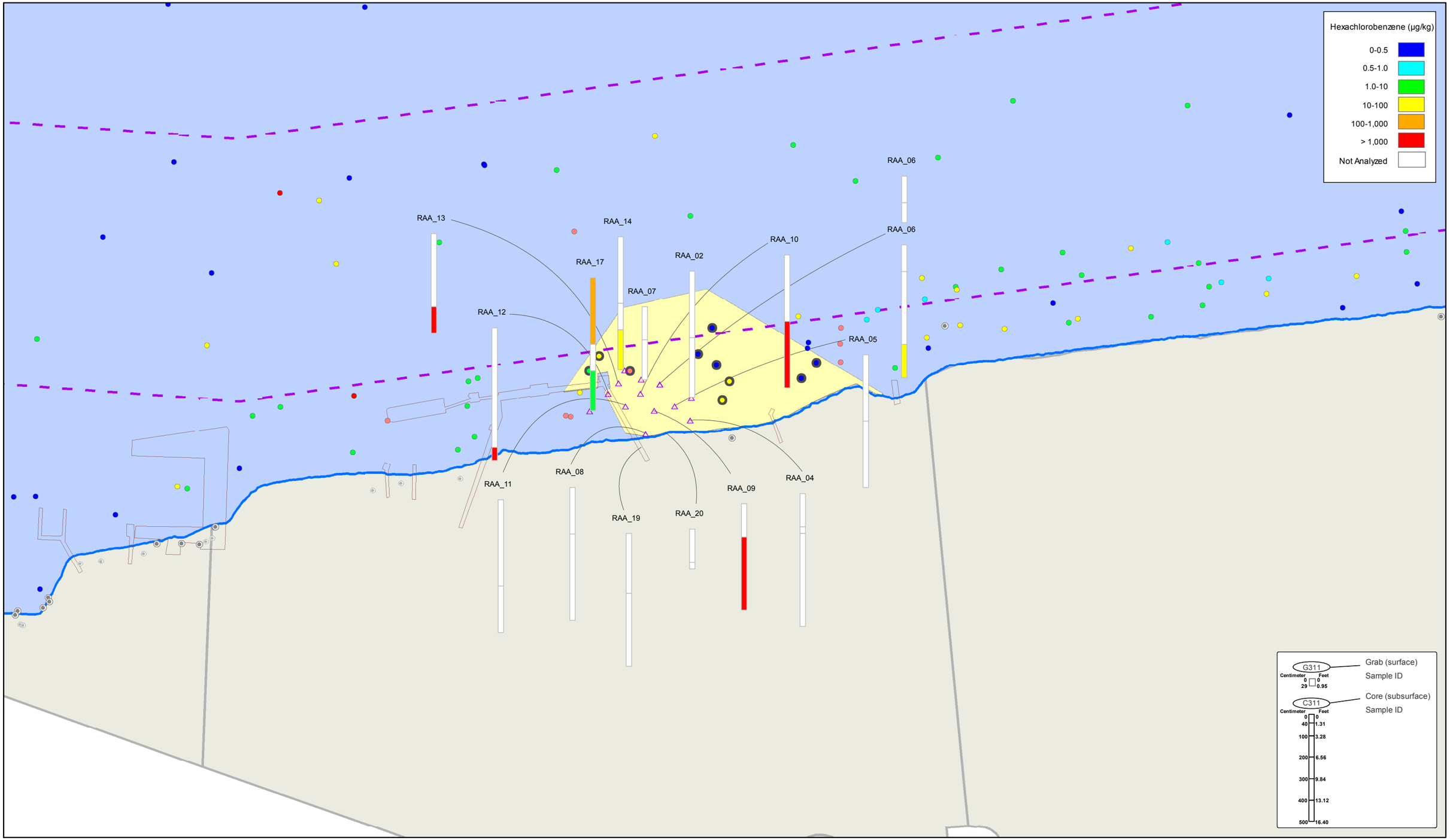
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56g

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-06_Sec5.1_Map D.1-39_Cores_Hexachlorobenzene_Insets.mxd) - 3/12/2009 -- 10:41:41 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

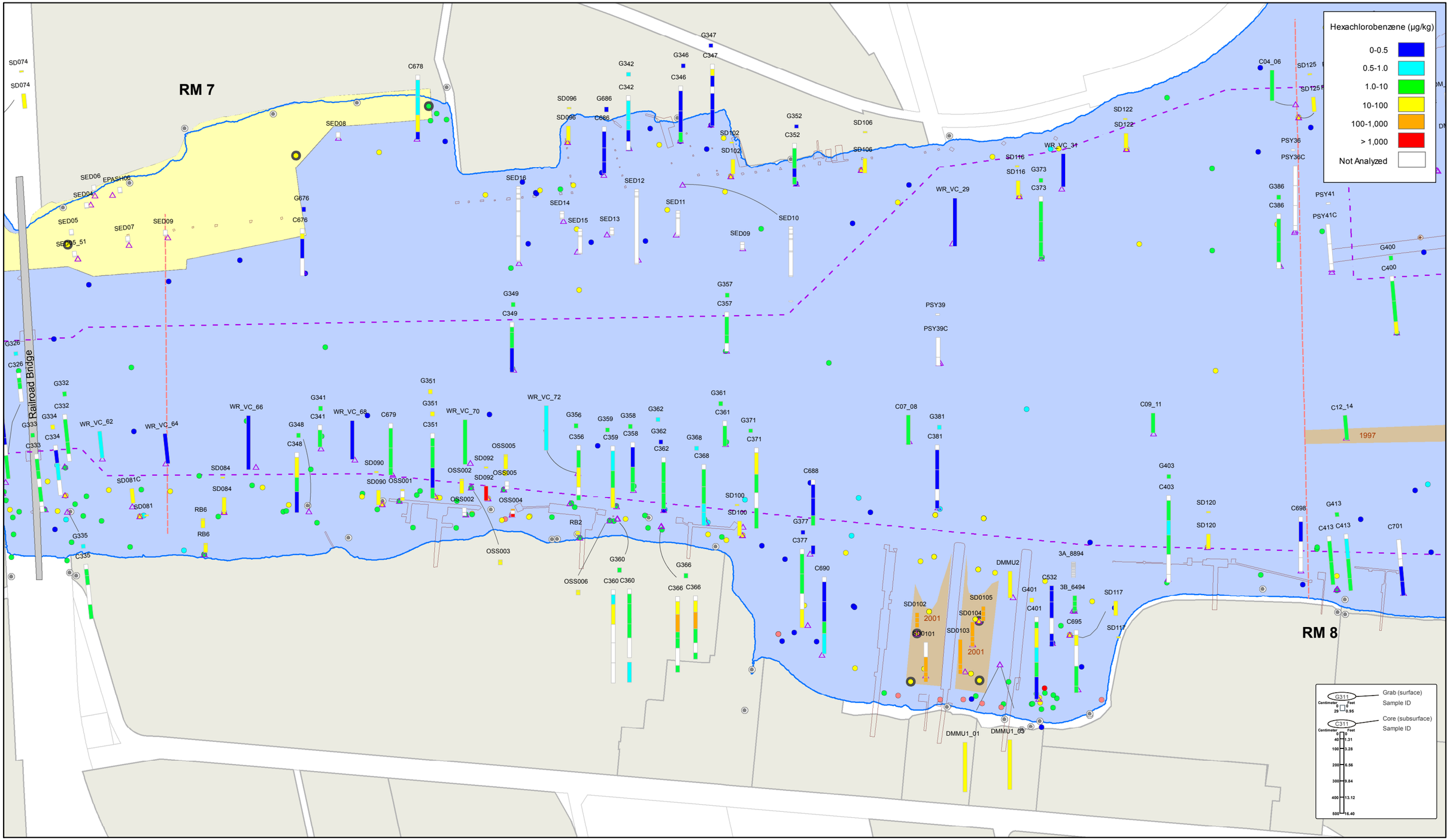
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)
River Mile 06 to 07 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

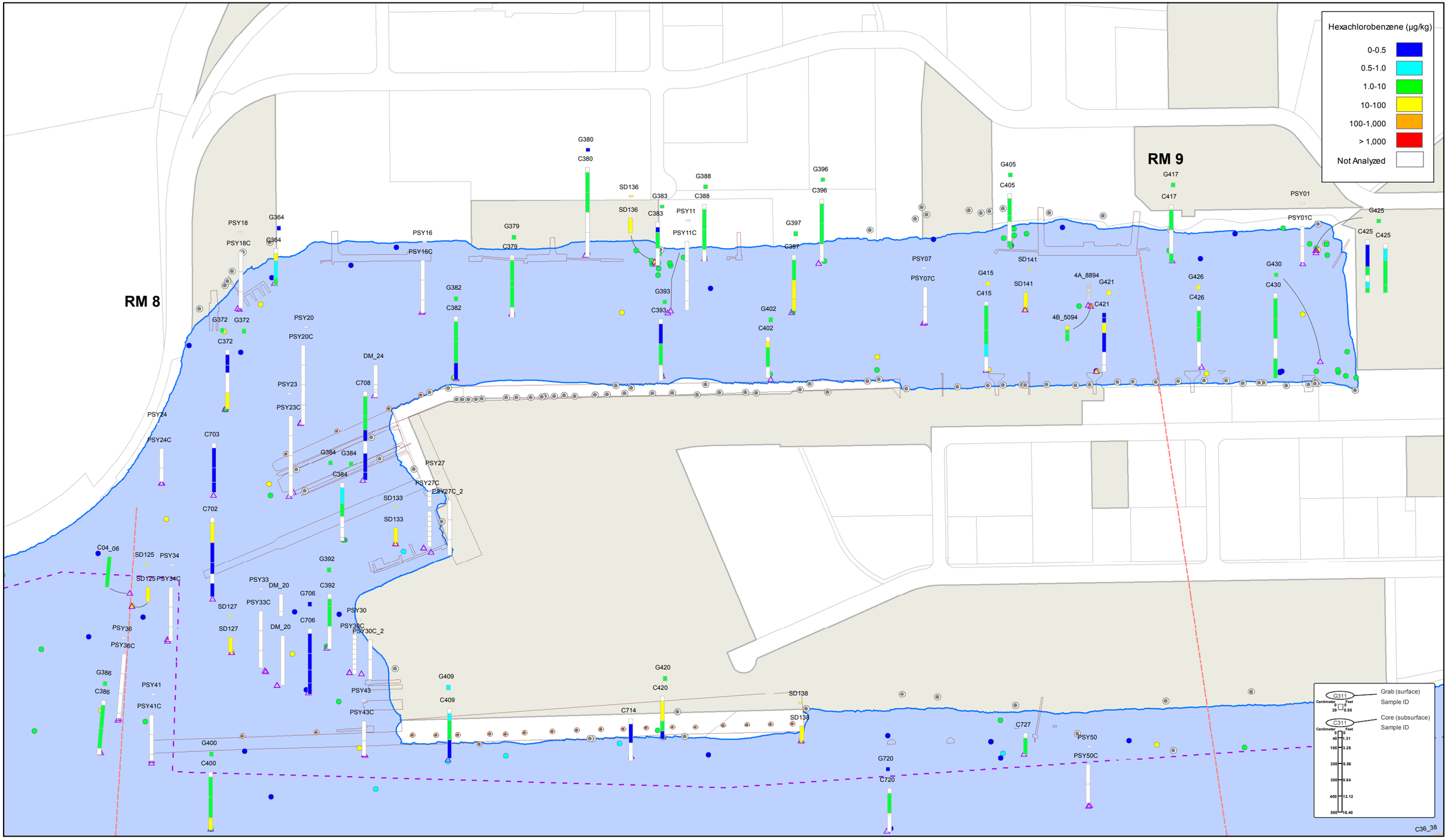
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56 h

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

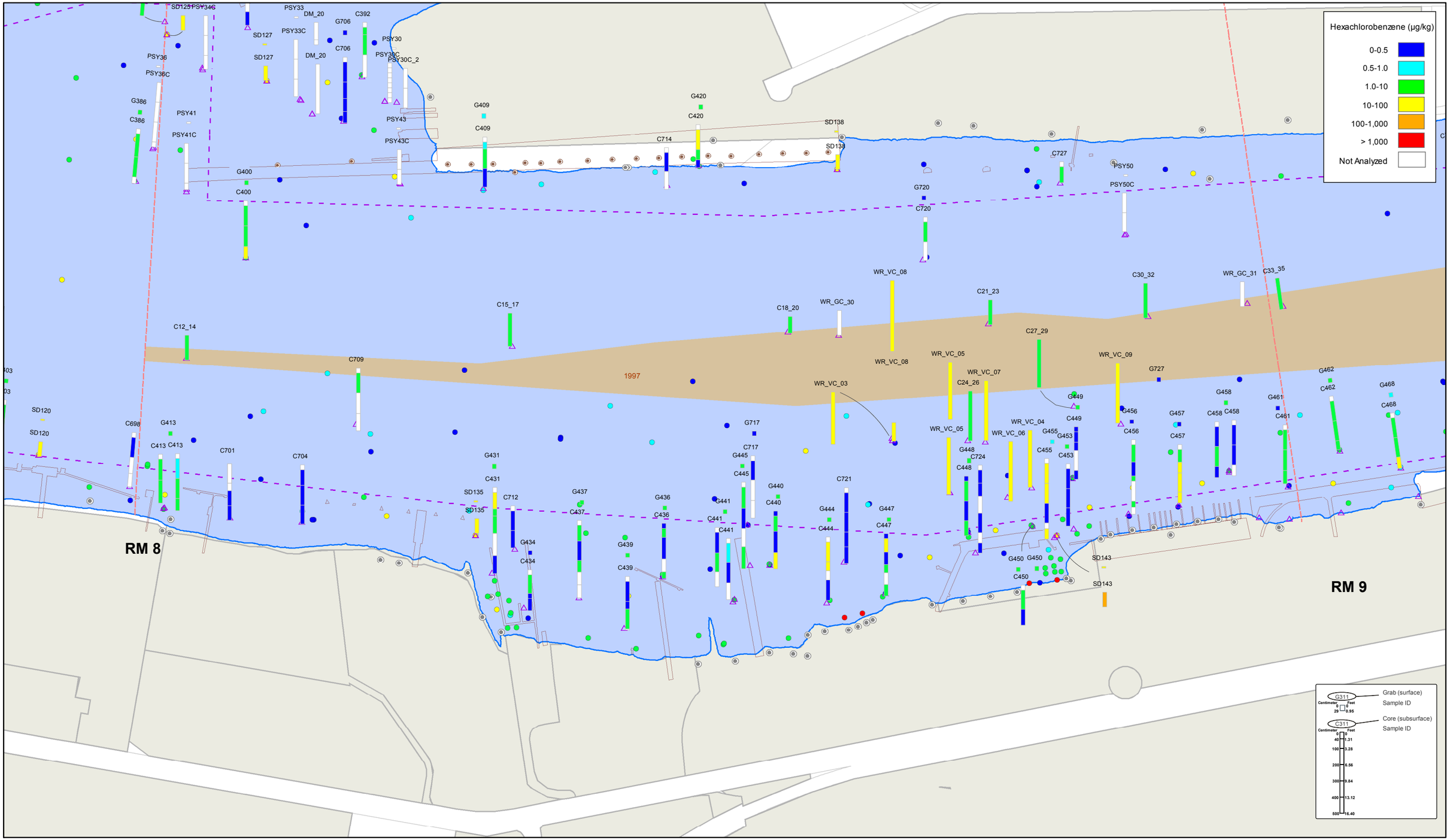
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

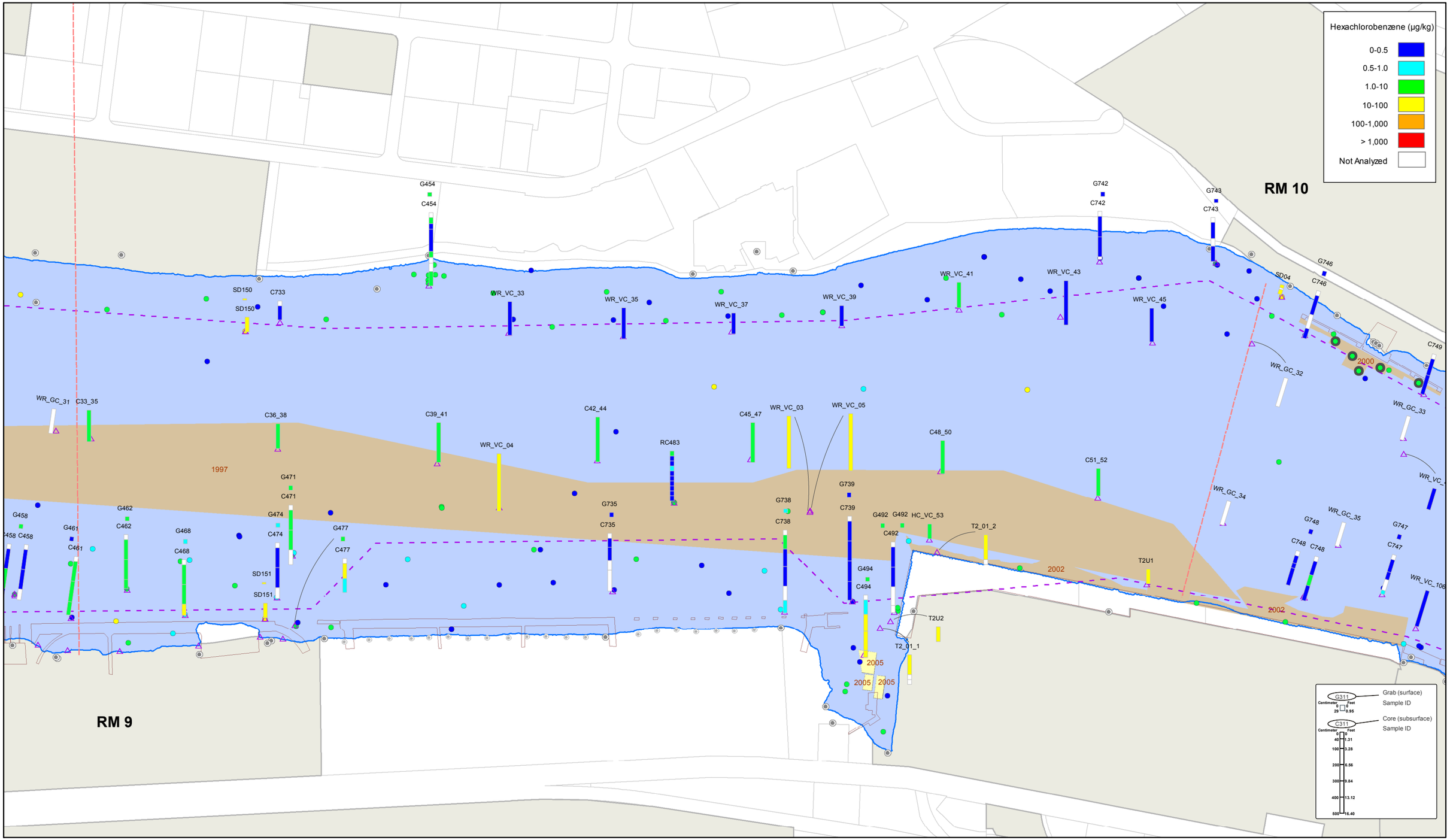
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 08 to 09 - Swan Is. West



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

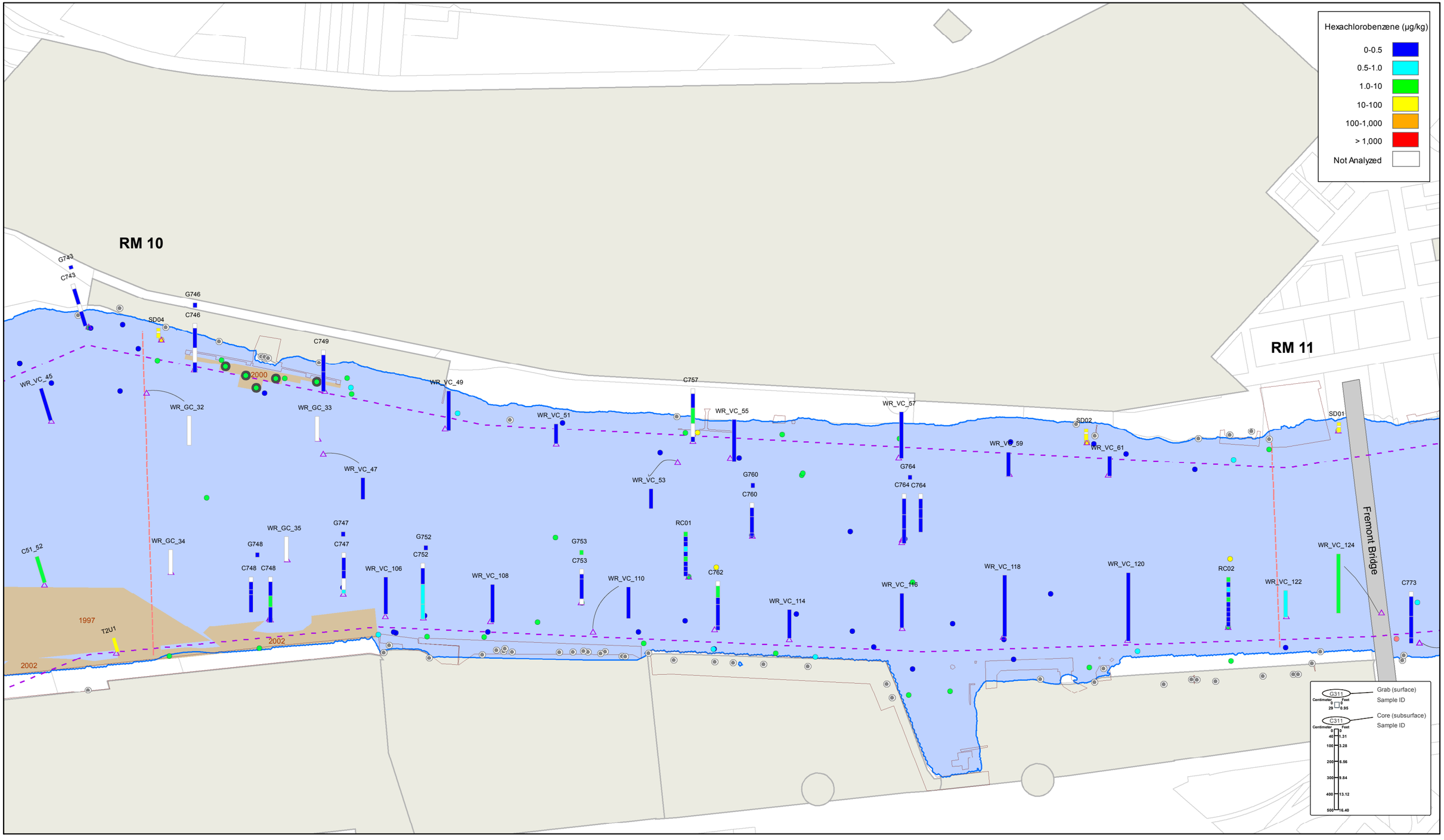
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56k

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 09 to 10



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

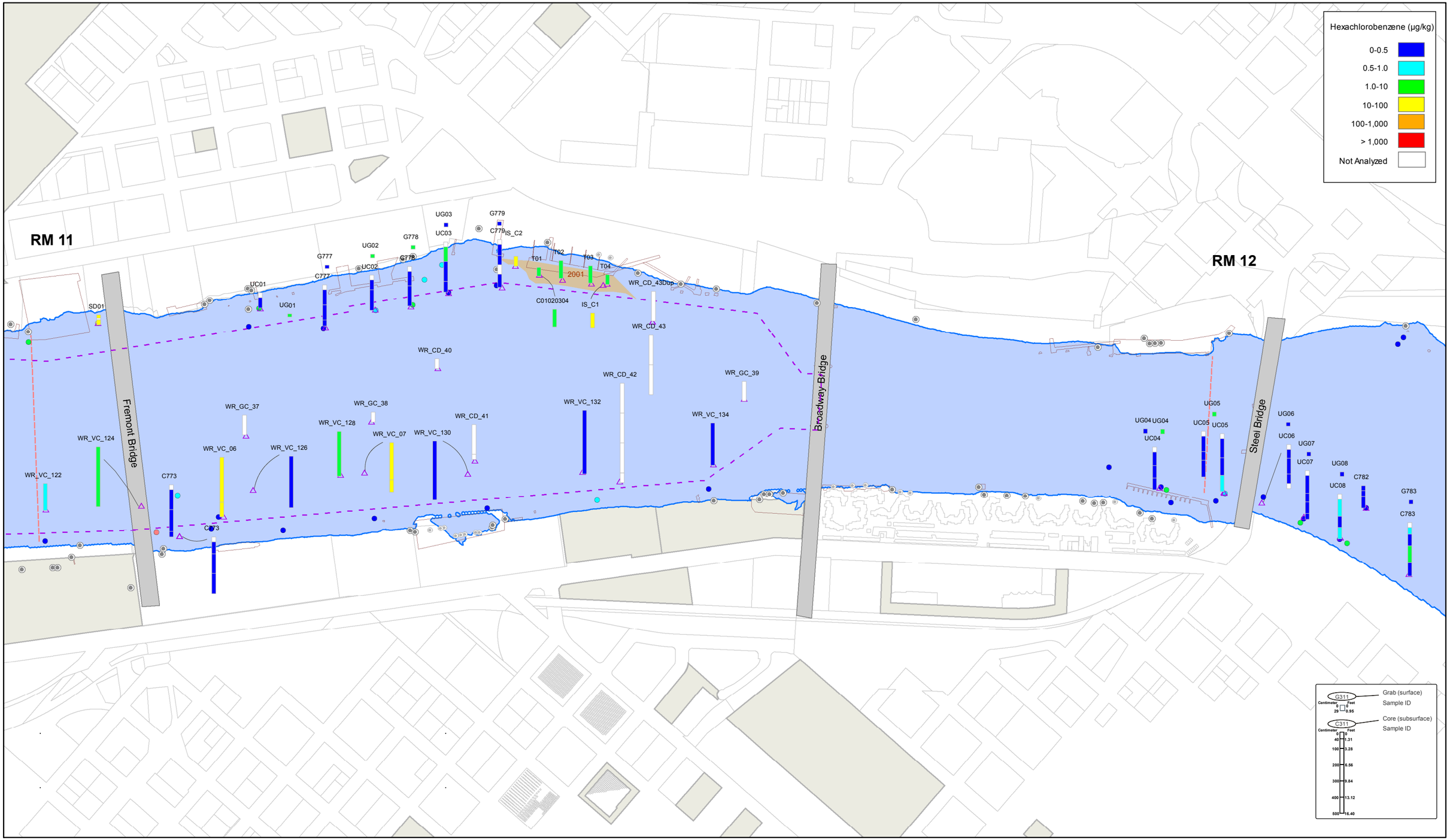
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 10 to 11



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

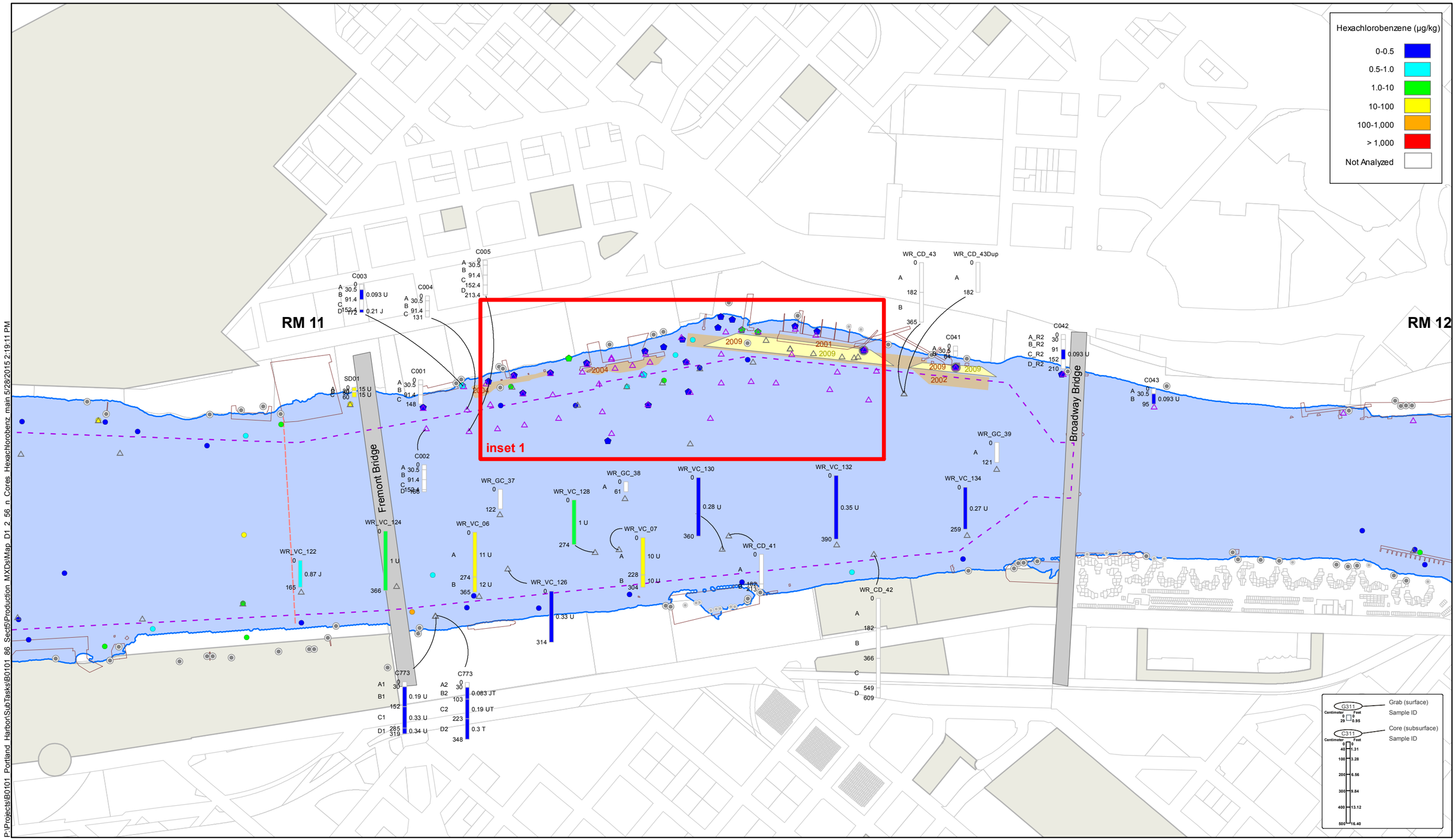
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56m

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

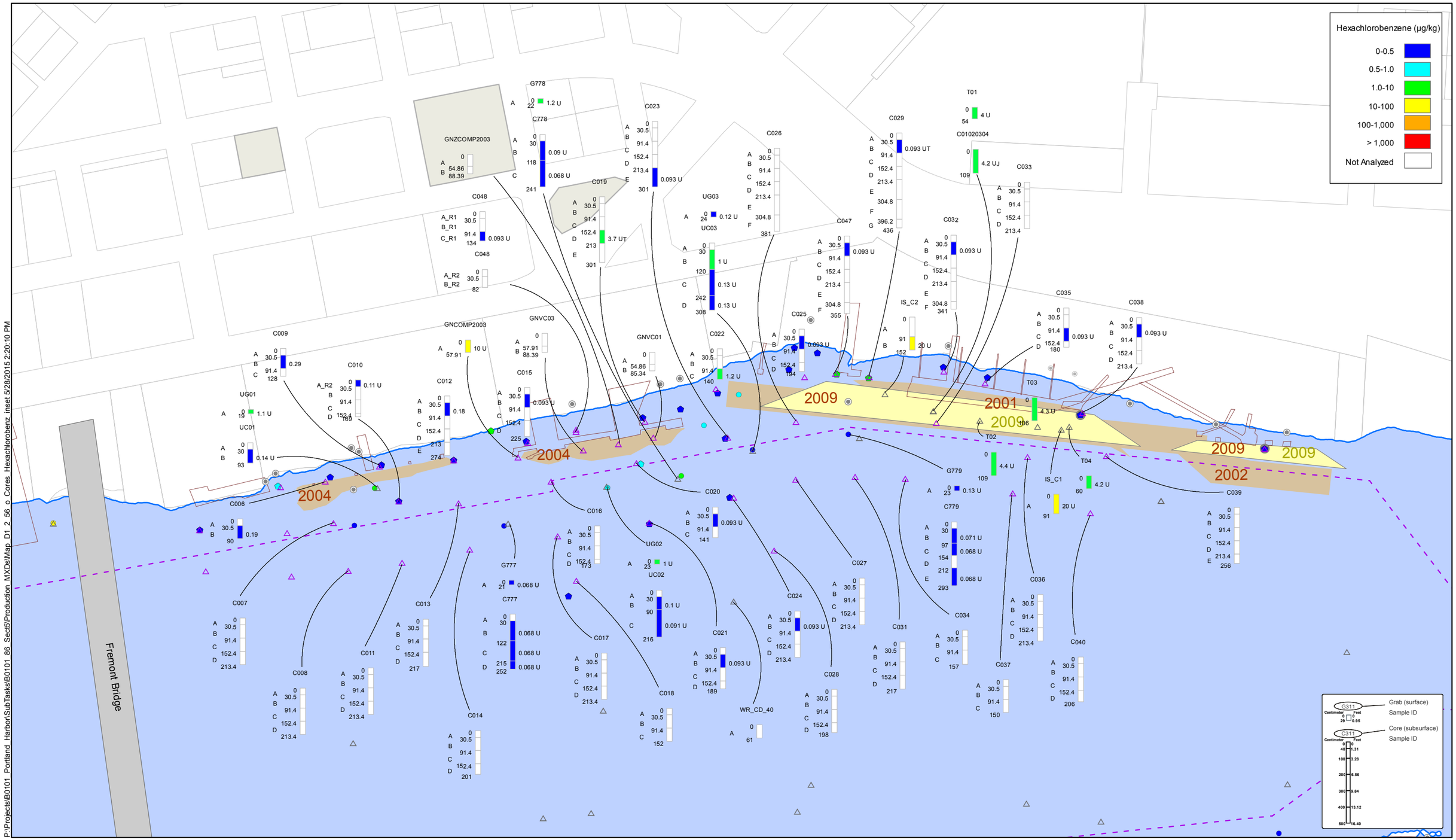
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-56n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_56_n_Cores_Hexachlorobenz_main 5/28/2015 2:19:11 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

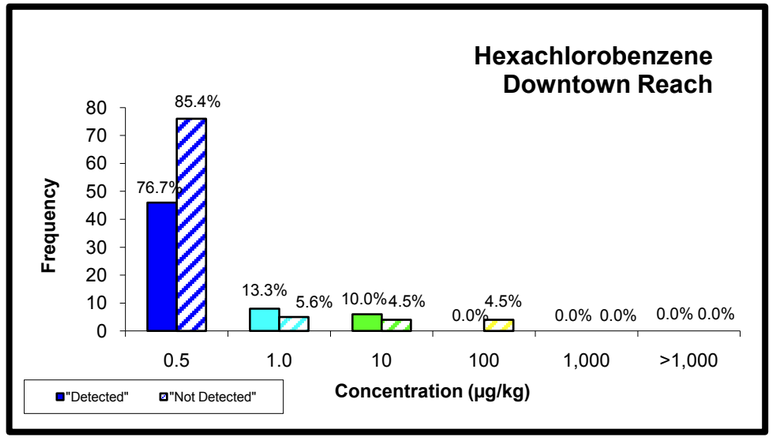
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

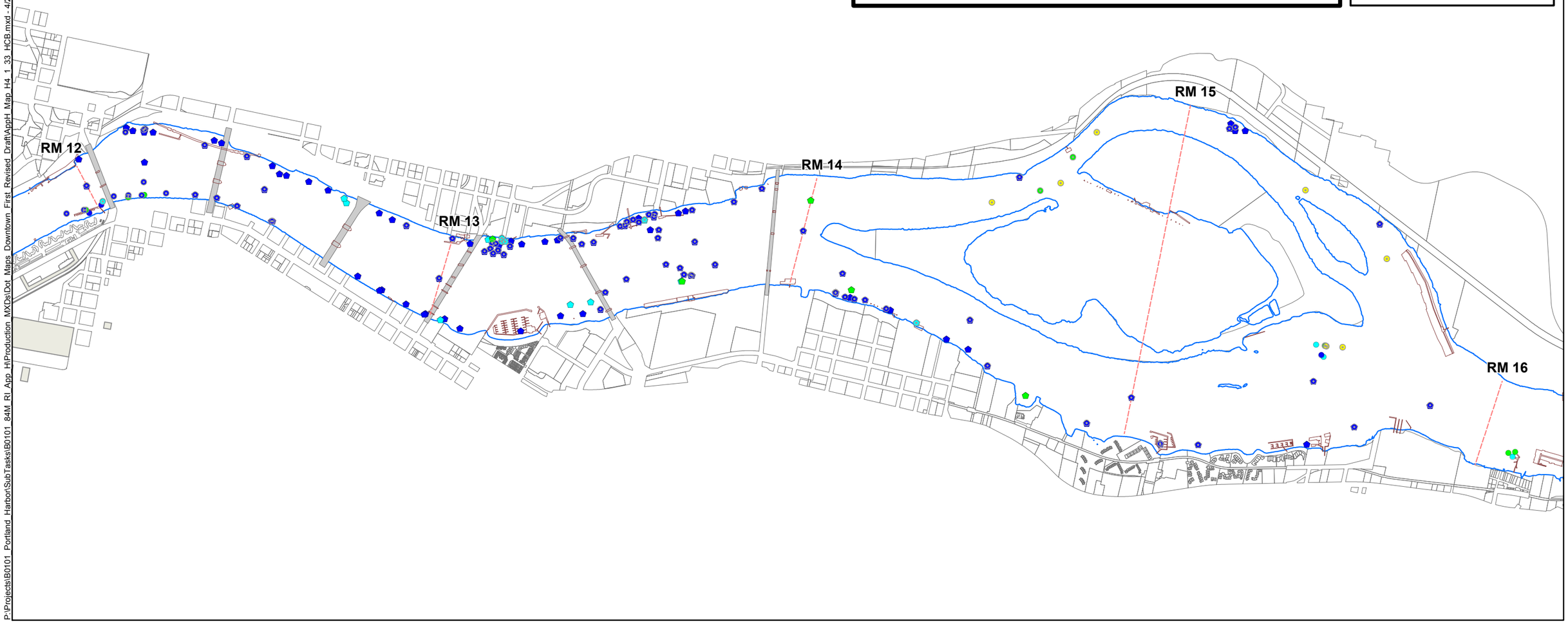
Map D1.2-56o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Hexachlorobenzene (µg/kg)

River Mile 11.0 - 11.8 - Inset 1



Hexachlorobenzene (µg/kg)

- 0-0.5
- 0.5-1.0
- 1.0-10
- 10-100
- 100-1,000
- >1,000
- Detected
- Not Detected



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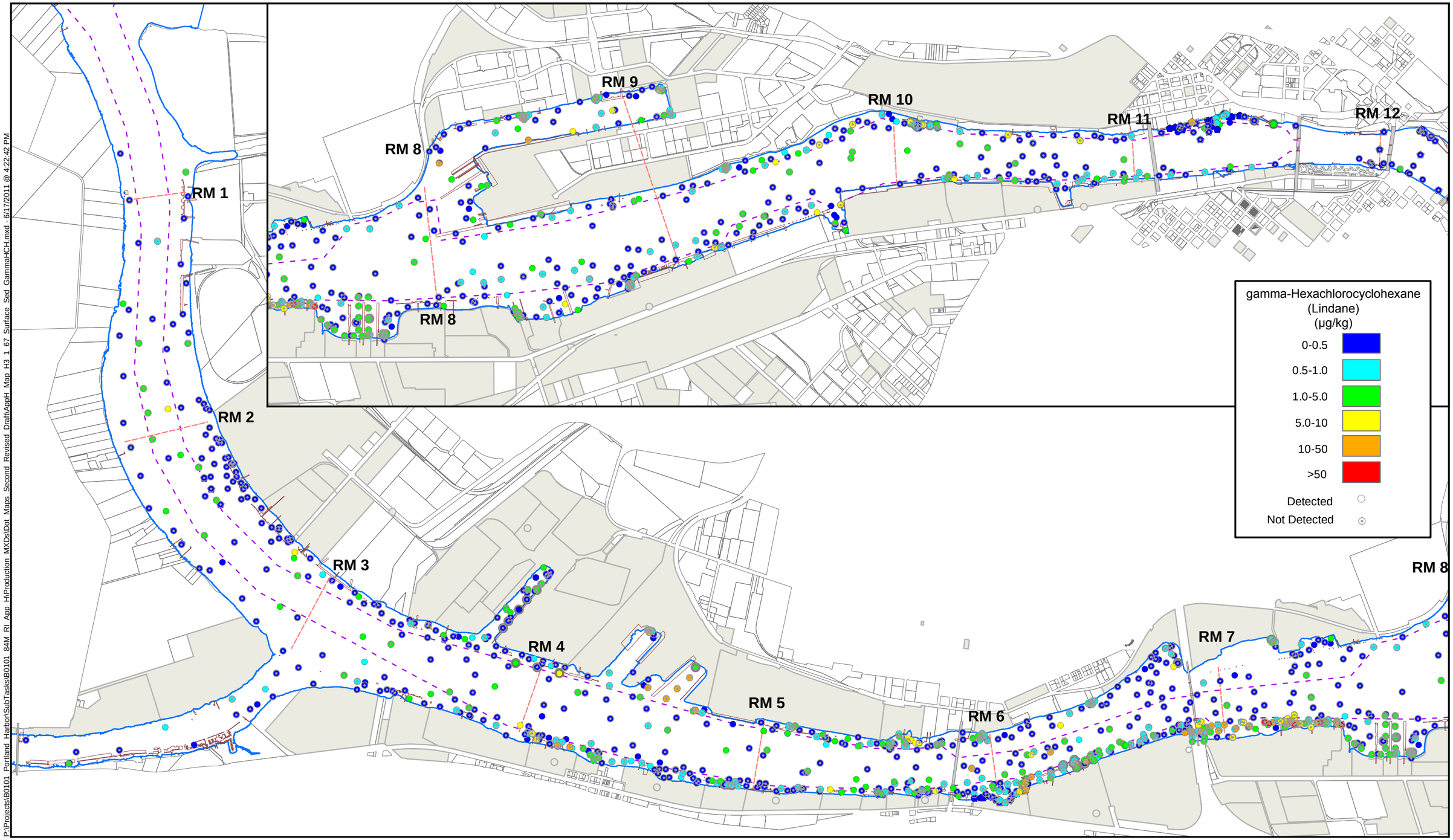
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-57
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Hexachlorobenzene (µg/kg)
Downtown Reach



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

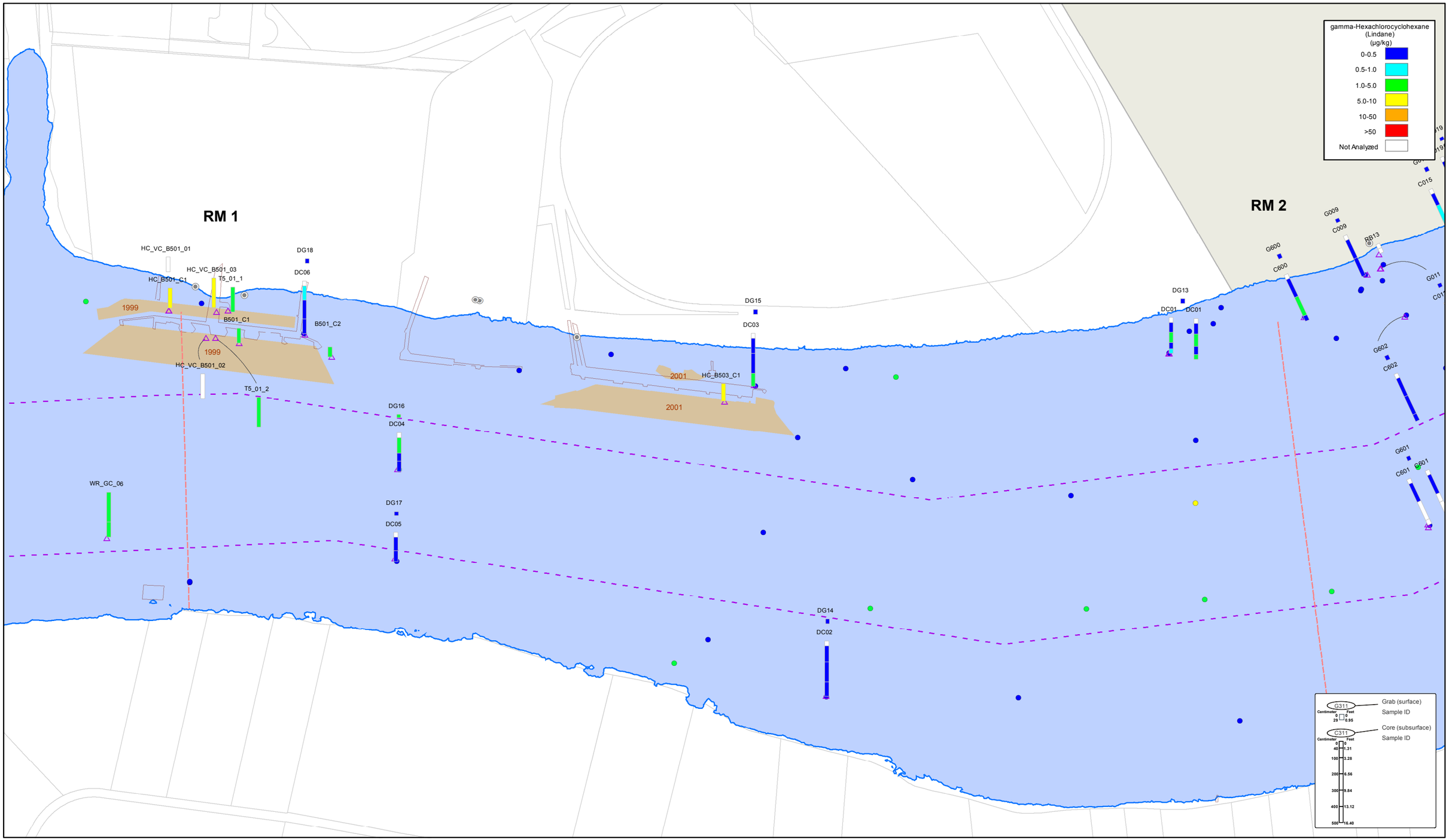
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-58
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Main.mxd) 7/1/2009 -- 12:51:01 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

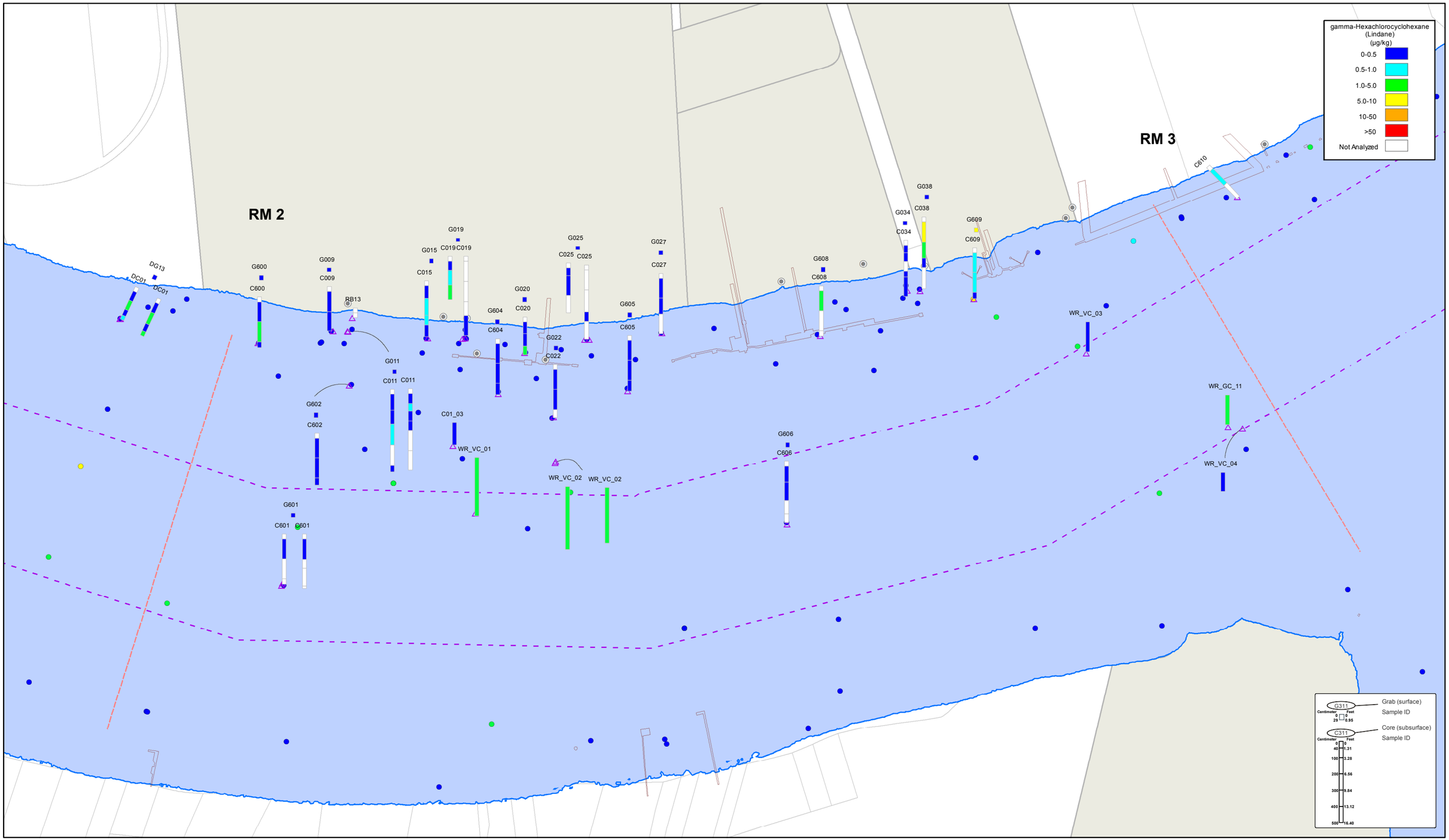
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 01 to 02



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Main.mxd) 7/1/2009 -- 12:51:01 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

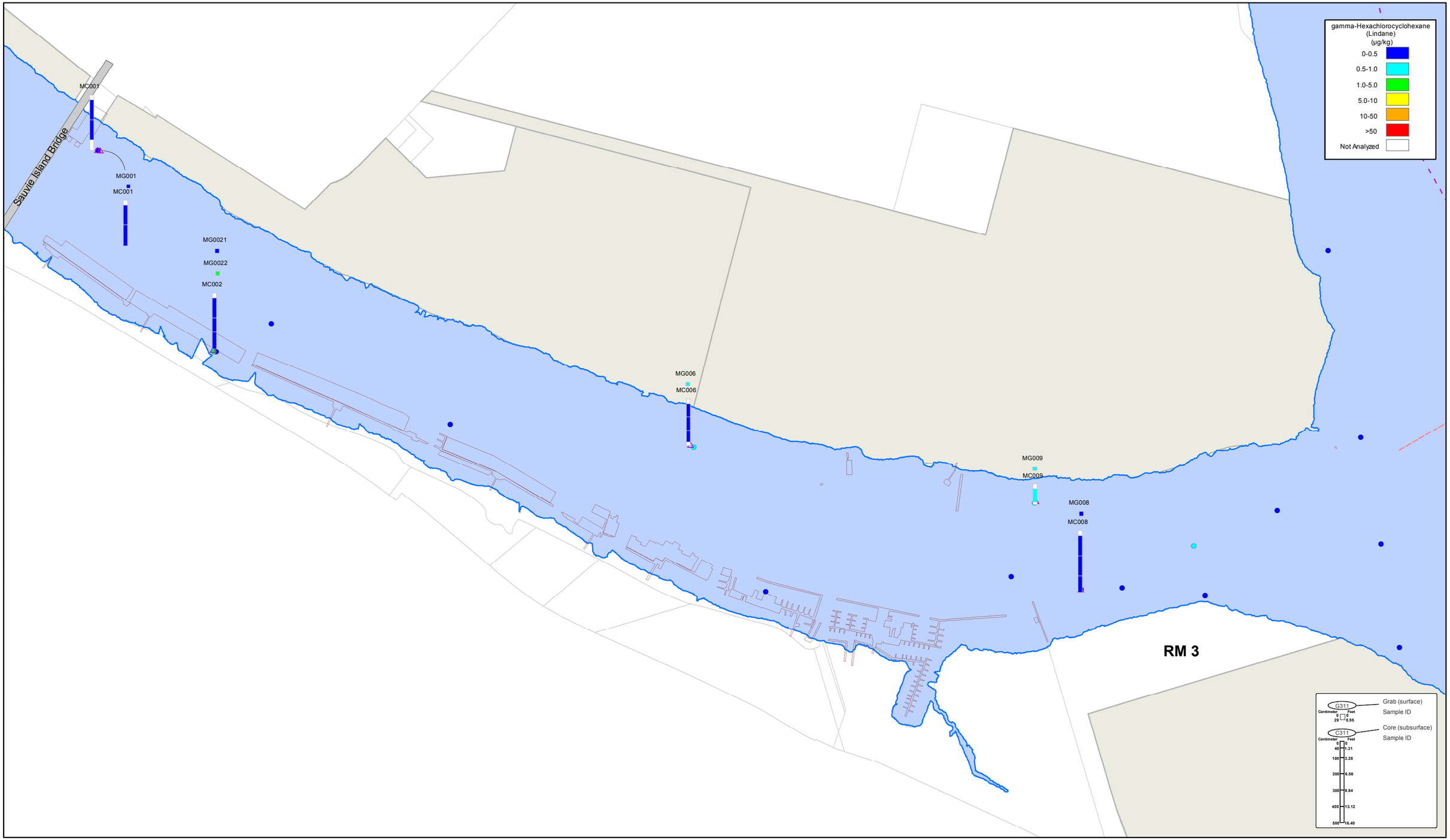
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 02 to 03

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Main.mxd) 7/1/2009 -- 12:51:01 PM



N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

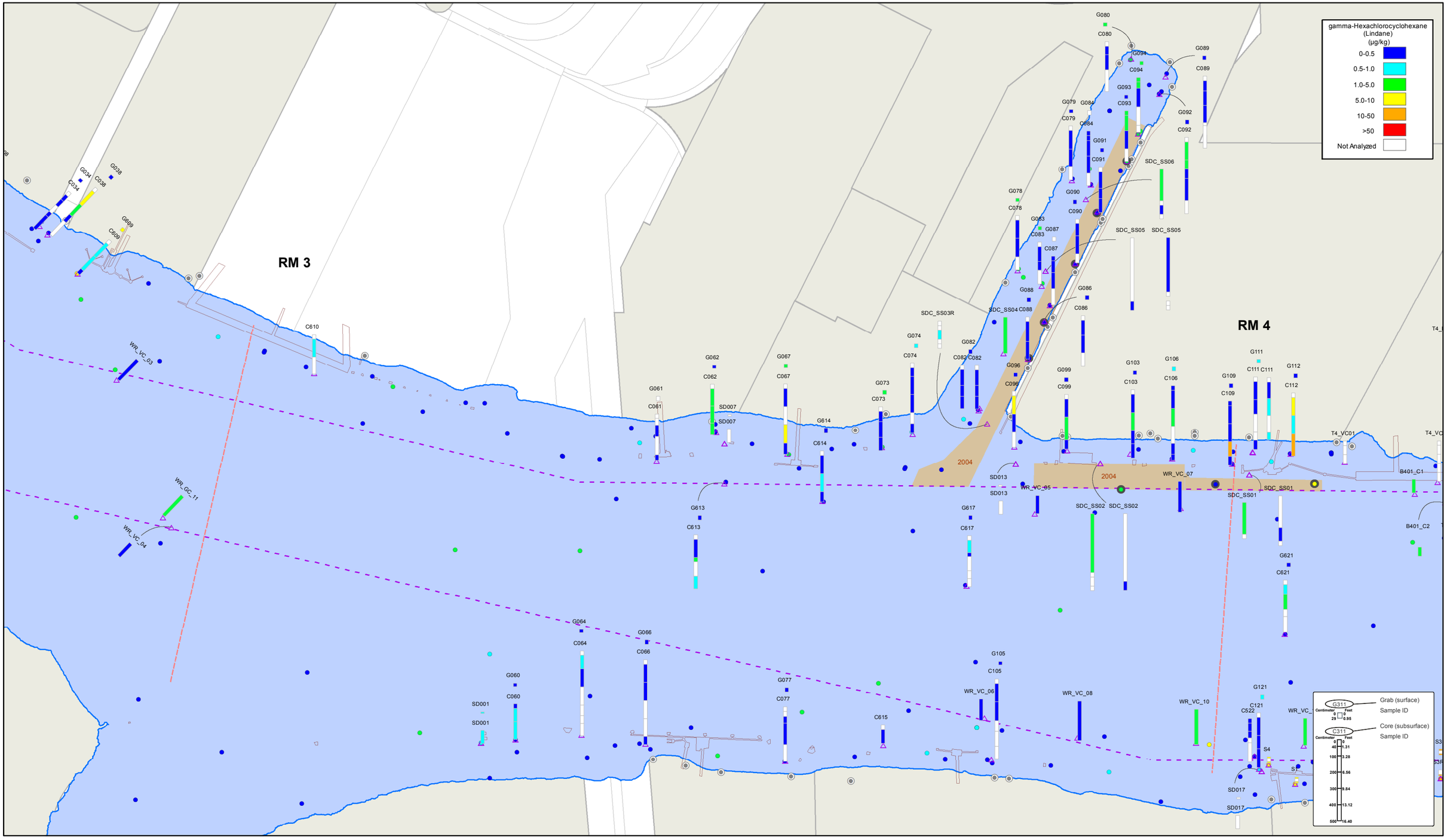
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

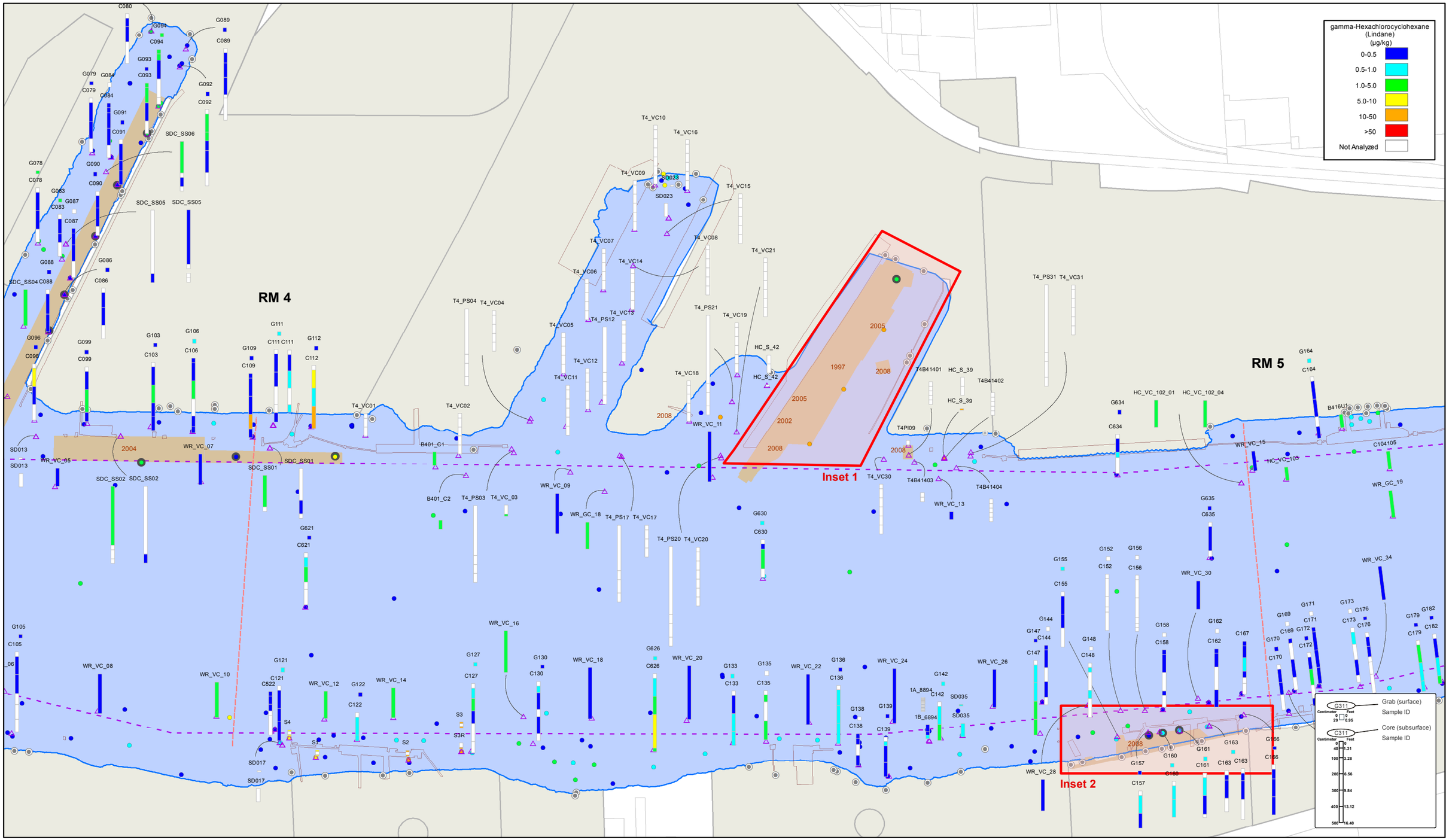
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

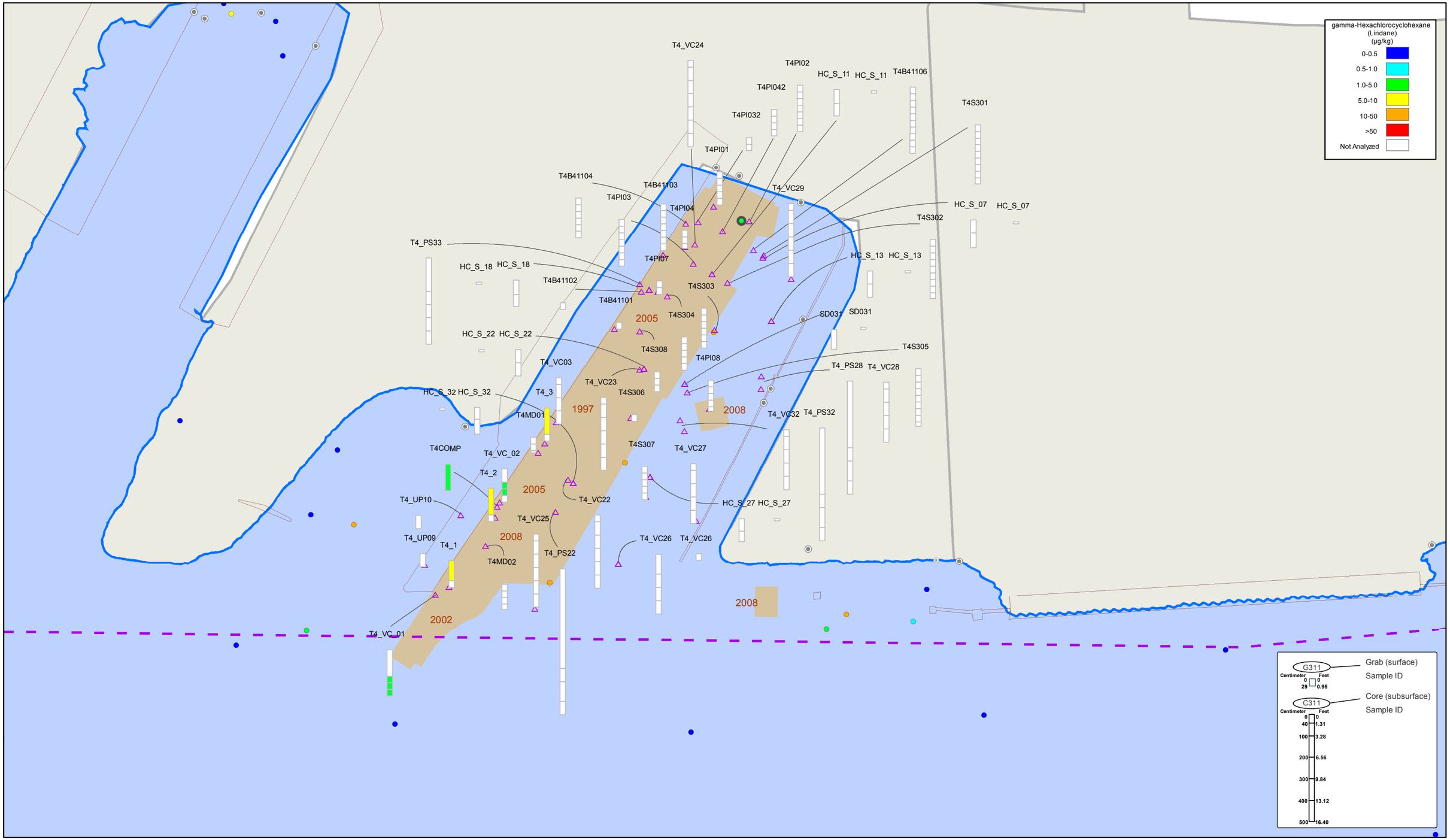
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

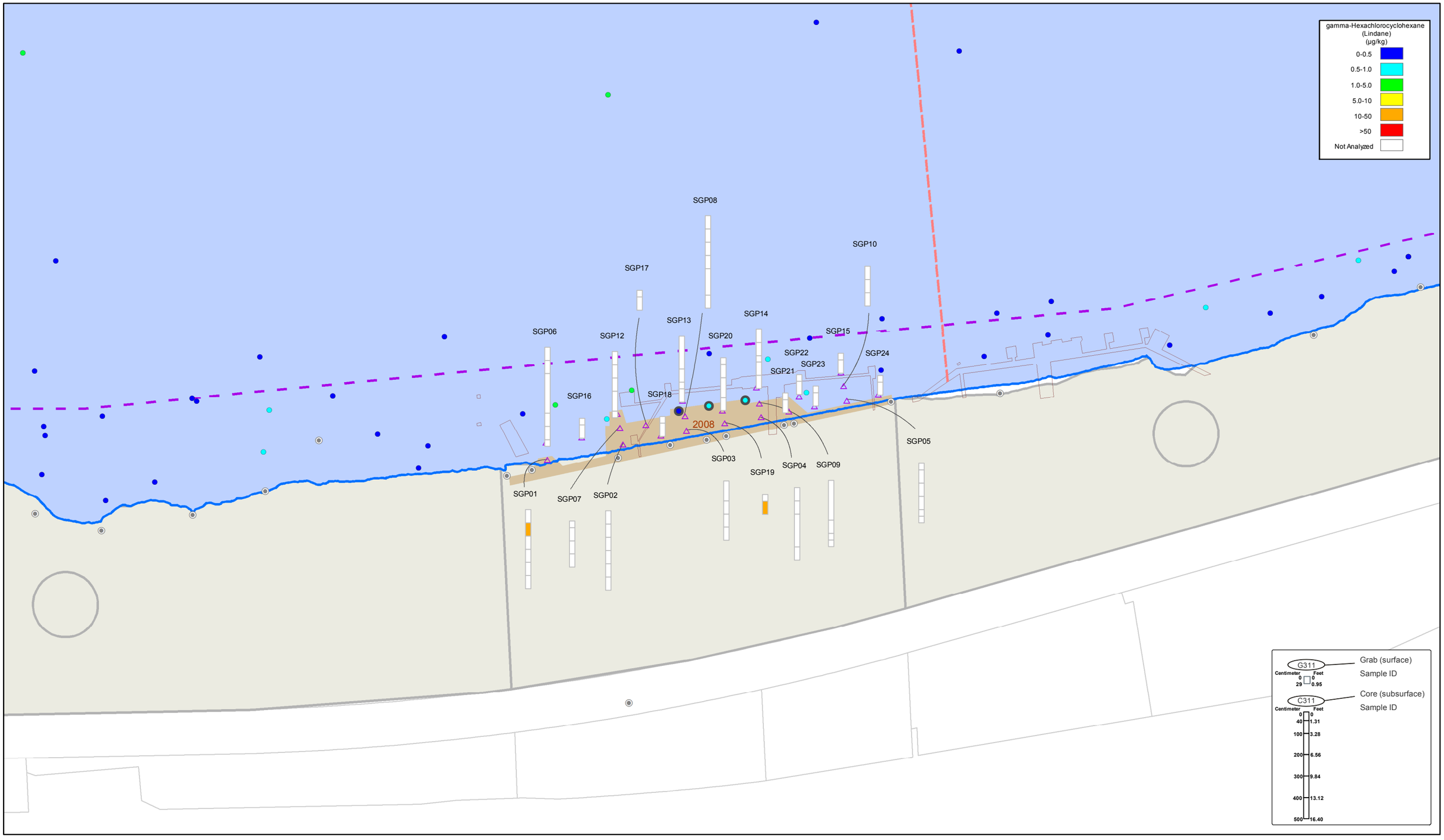
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 04 to 05 - Slips - Inset 1

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Insets.mxd) 7/1/2009 -- 12:50:24 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

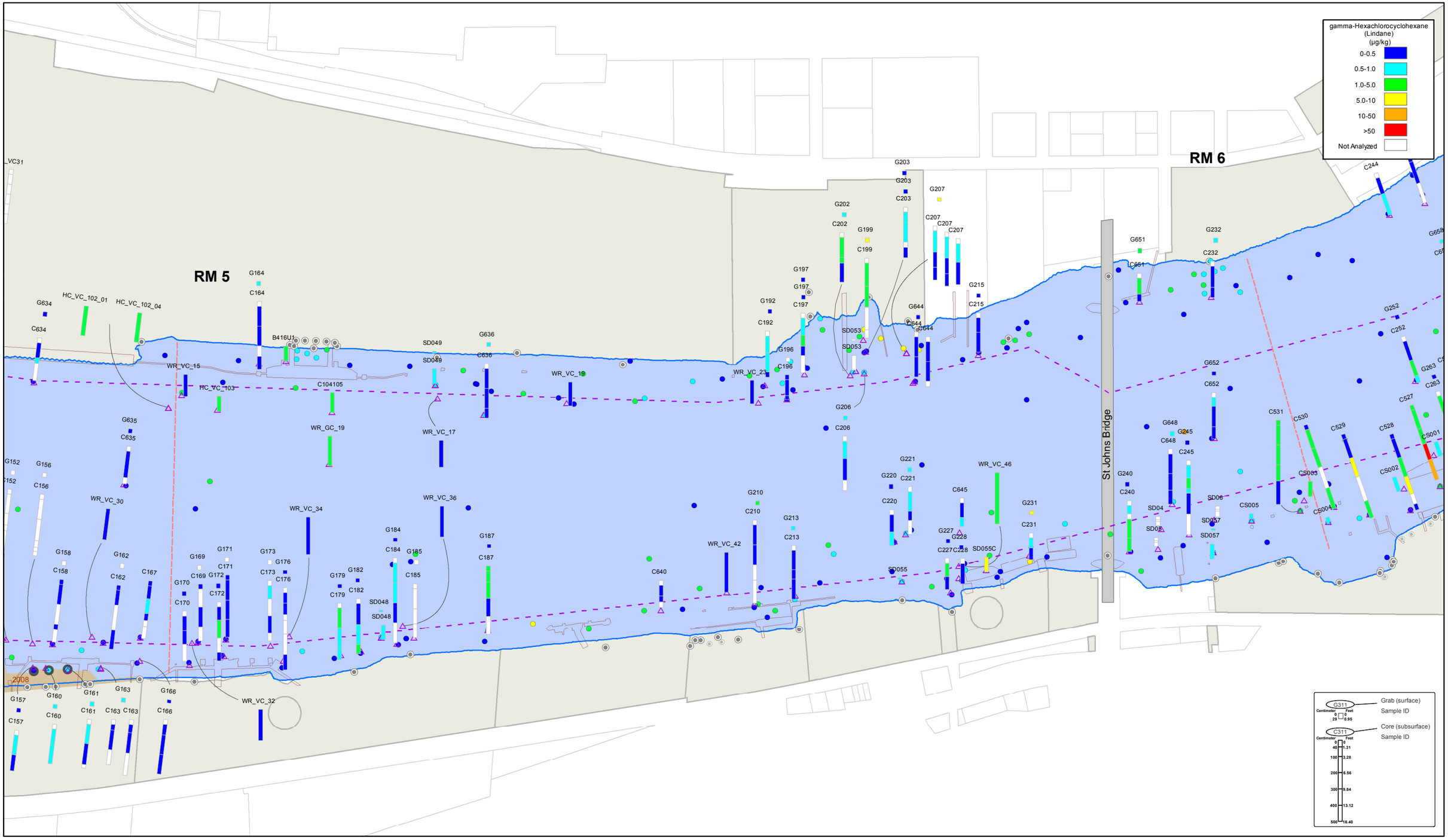
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 04 to 05 - Slips - Inset 2

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Main.mxd) 7/1/2009 -- 12:51:01 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

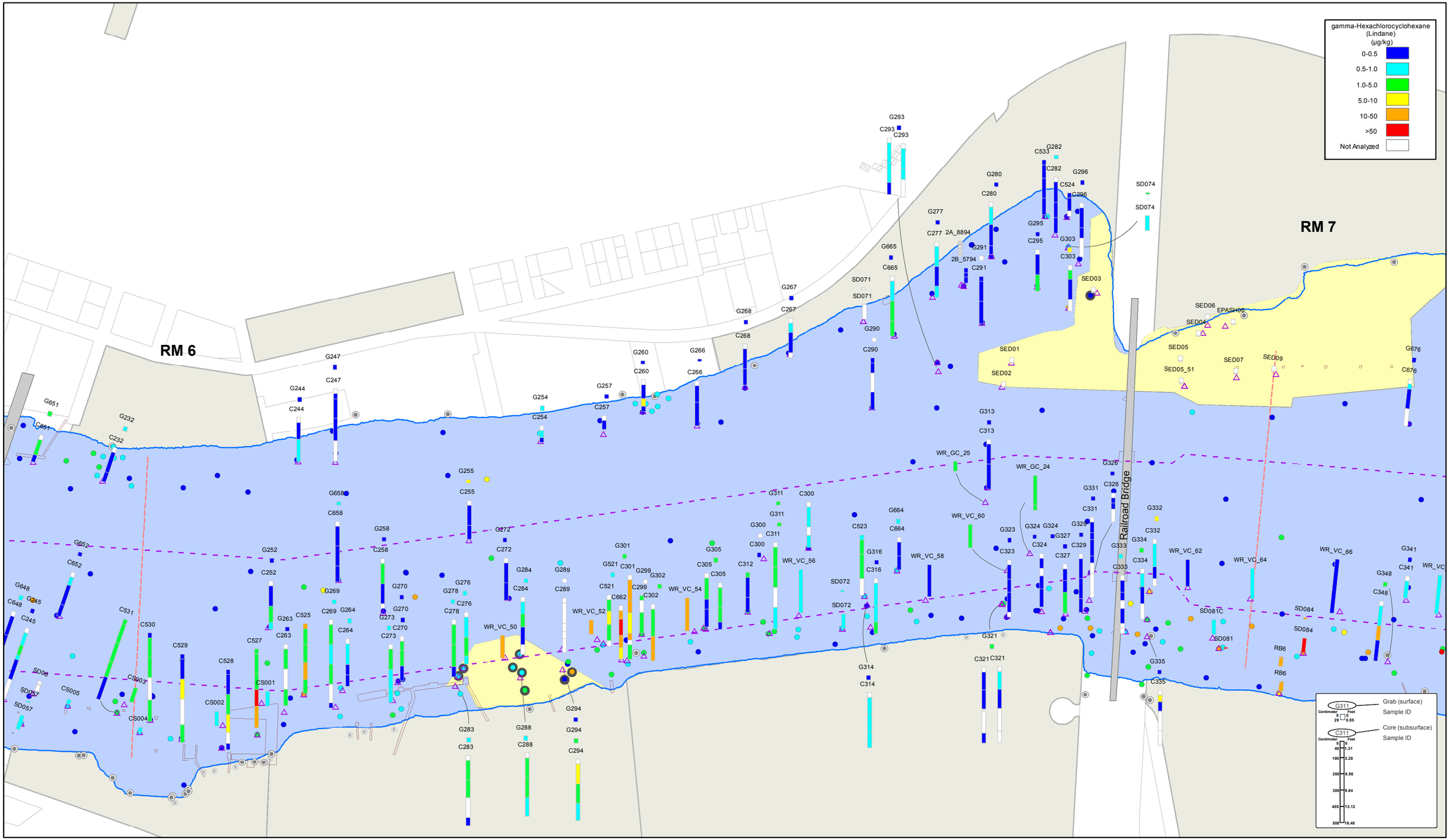
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

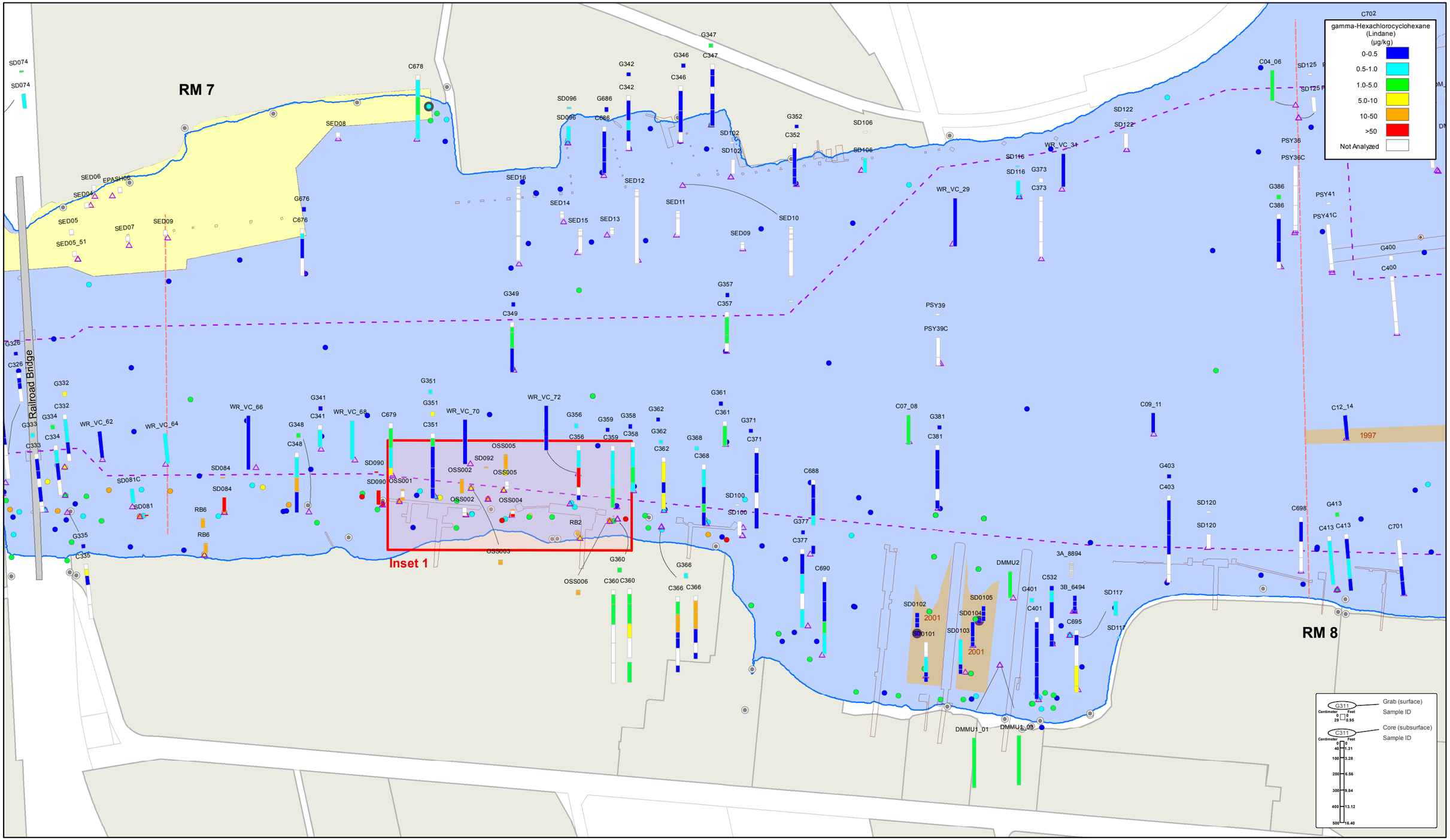
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 06 to 07



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

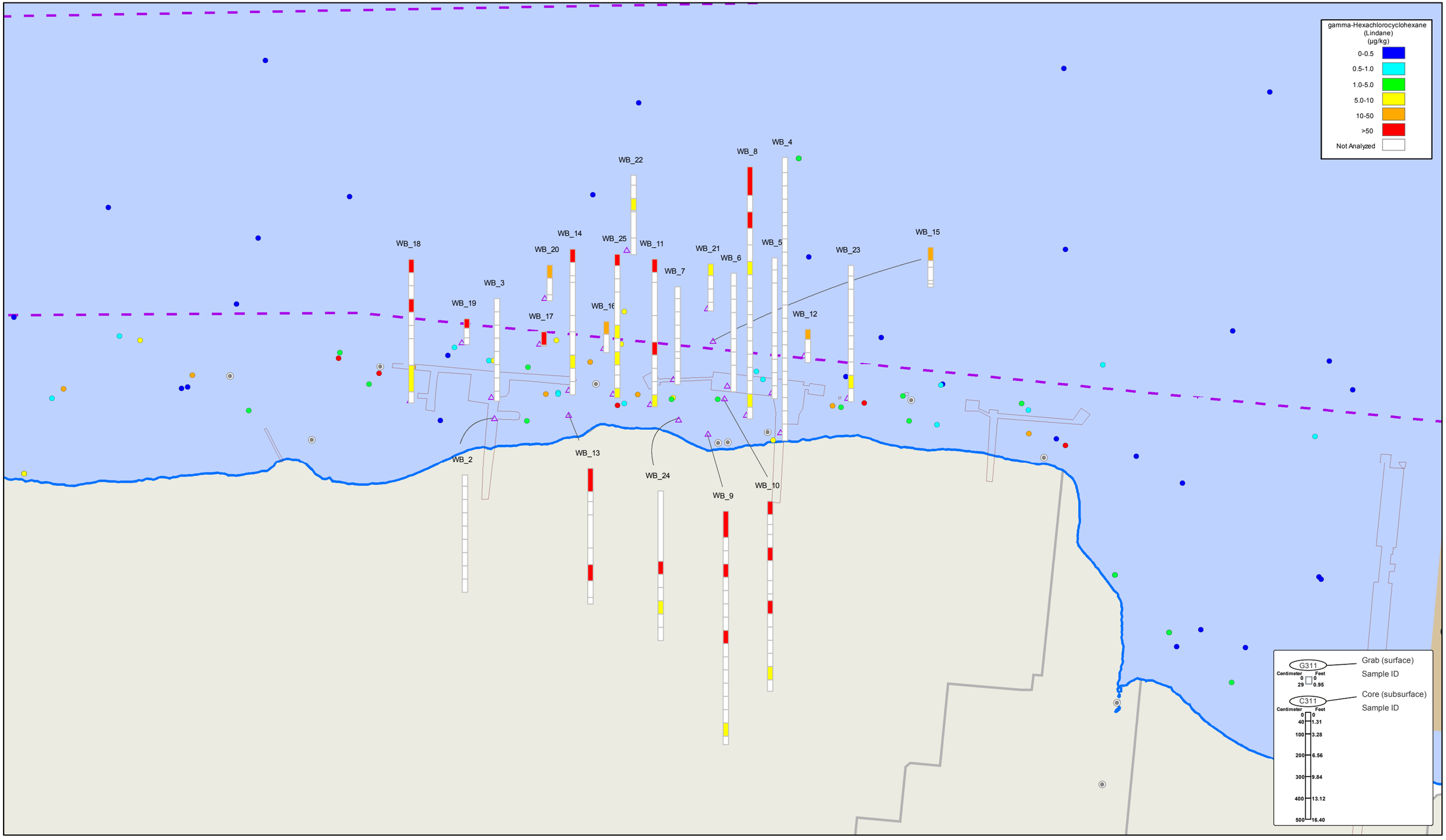
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 07 to 08

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Insets.mxd) 7/1/2009 -- 12:50:24 PM



N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

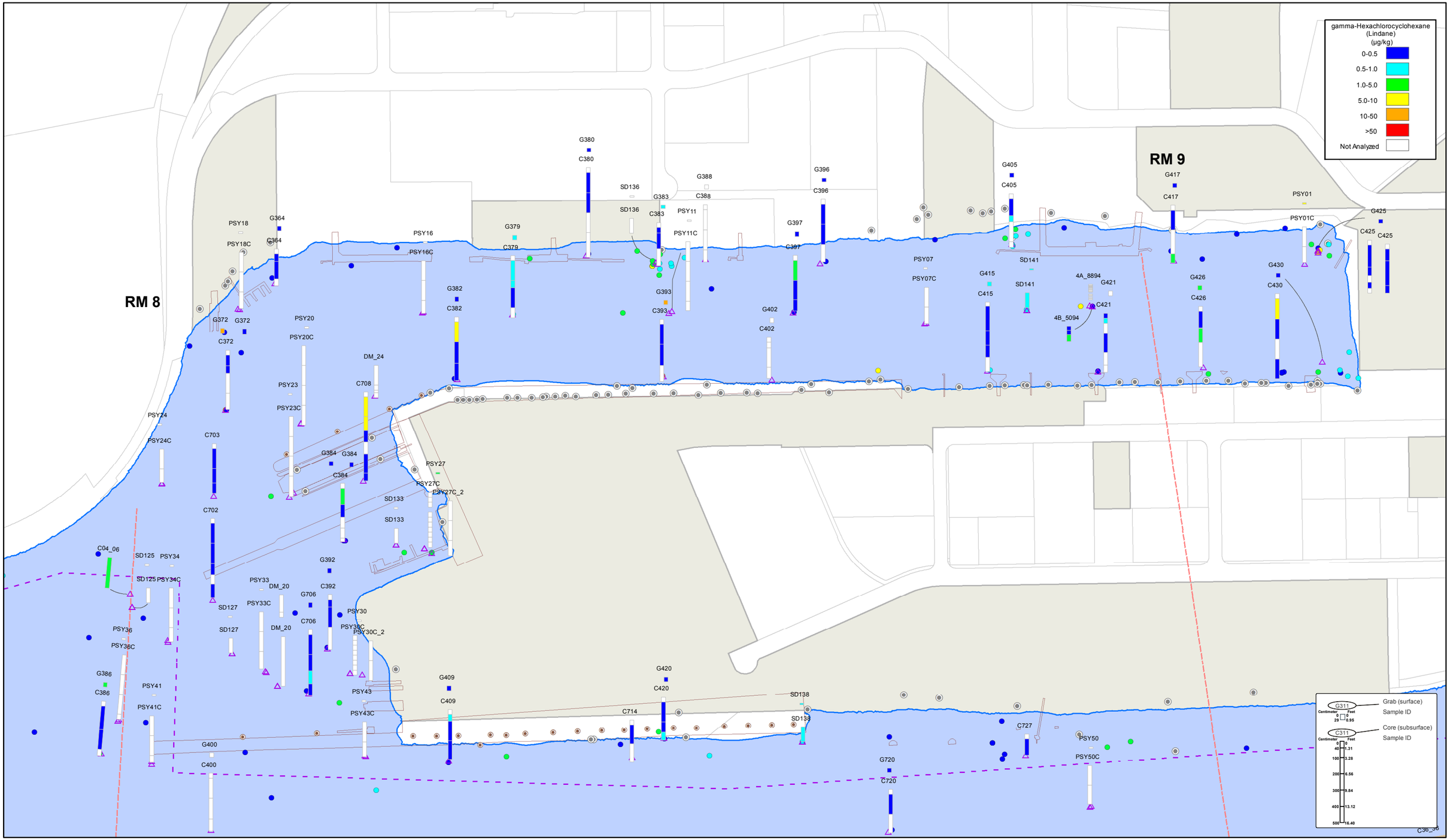
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59h1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)

River Mile 07 to 08 - Inset 1

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Main.mxd) 7/1/2009 -- 12:51:01 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

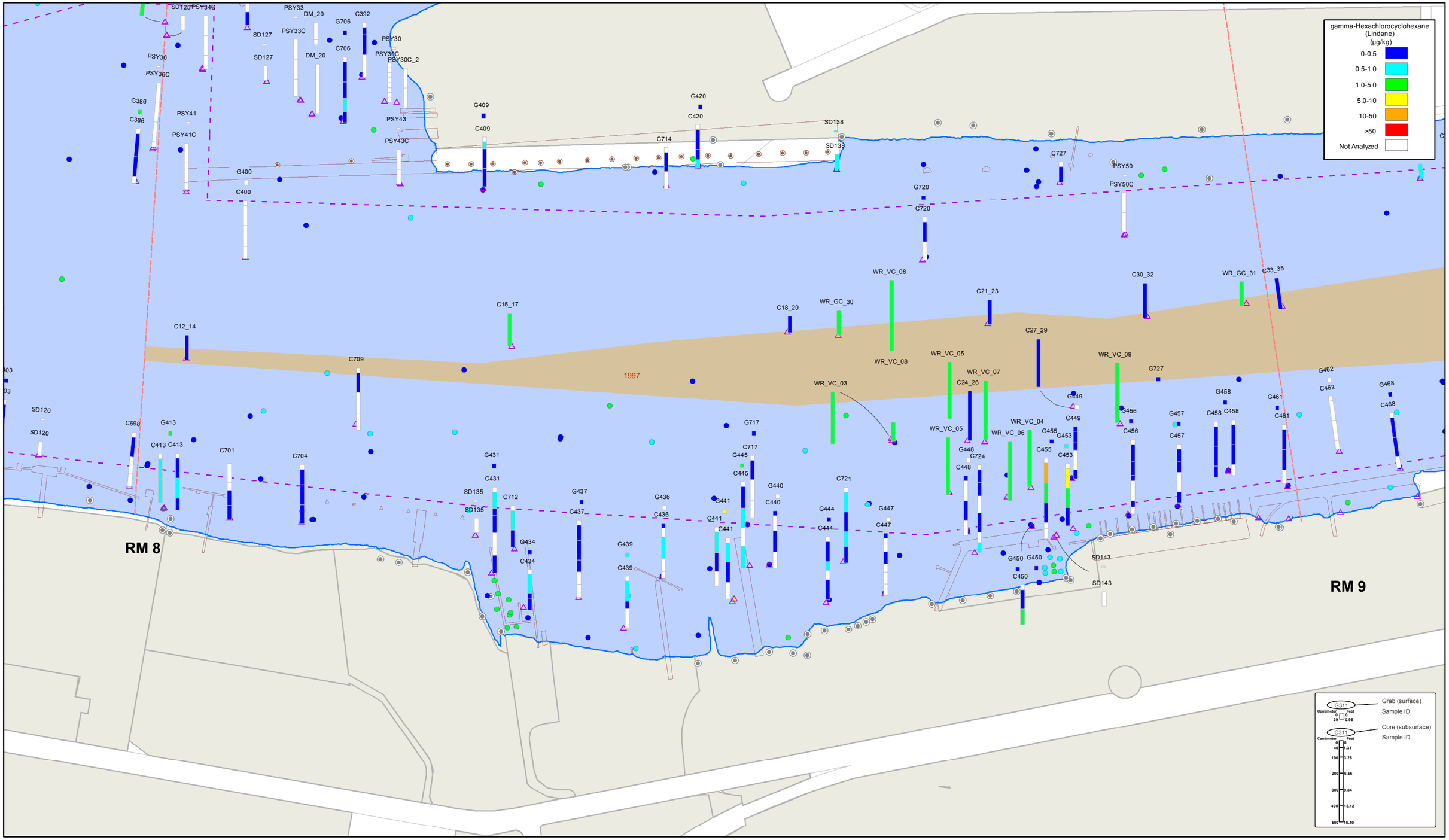
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

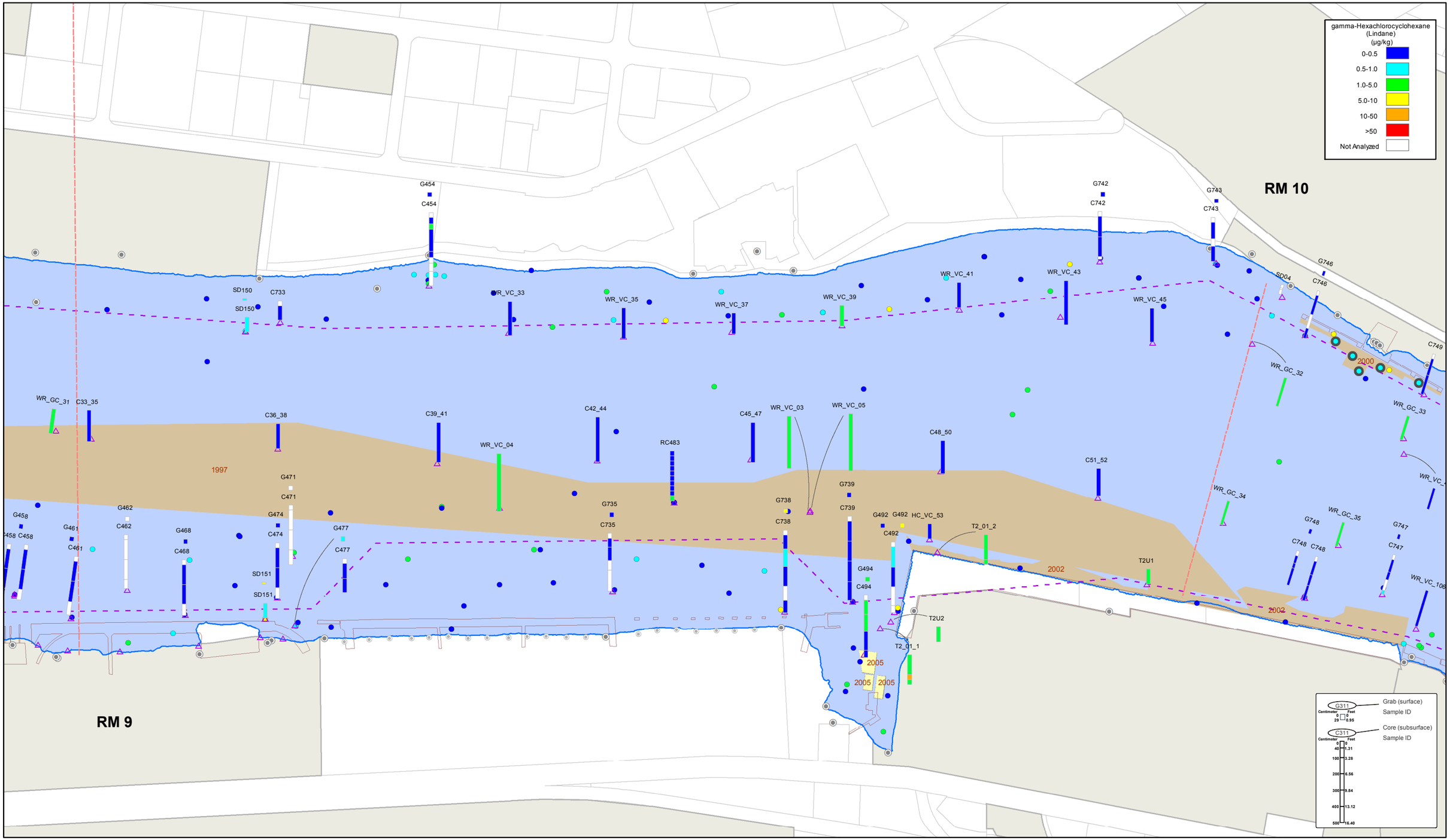
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 08 to 09 - Swan Is. West



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-40_Cores_GammaHexachlorocyclohexane_Main.mxd) 7/1/2009 -- 12:51:01 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

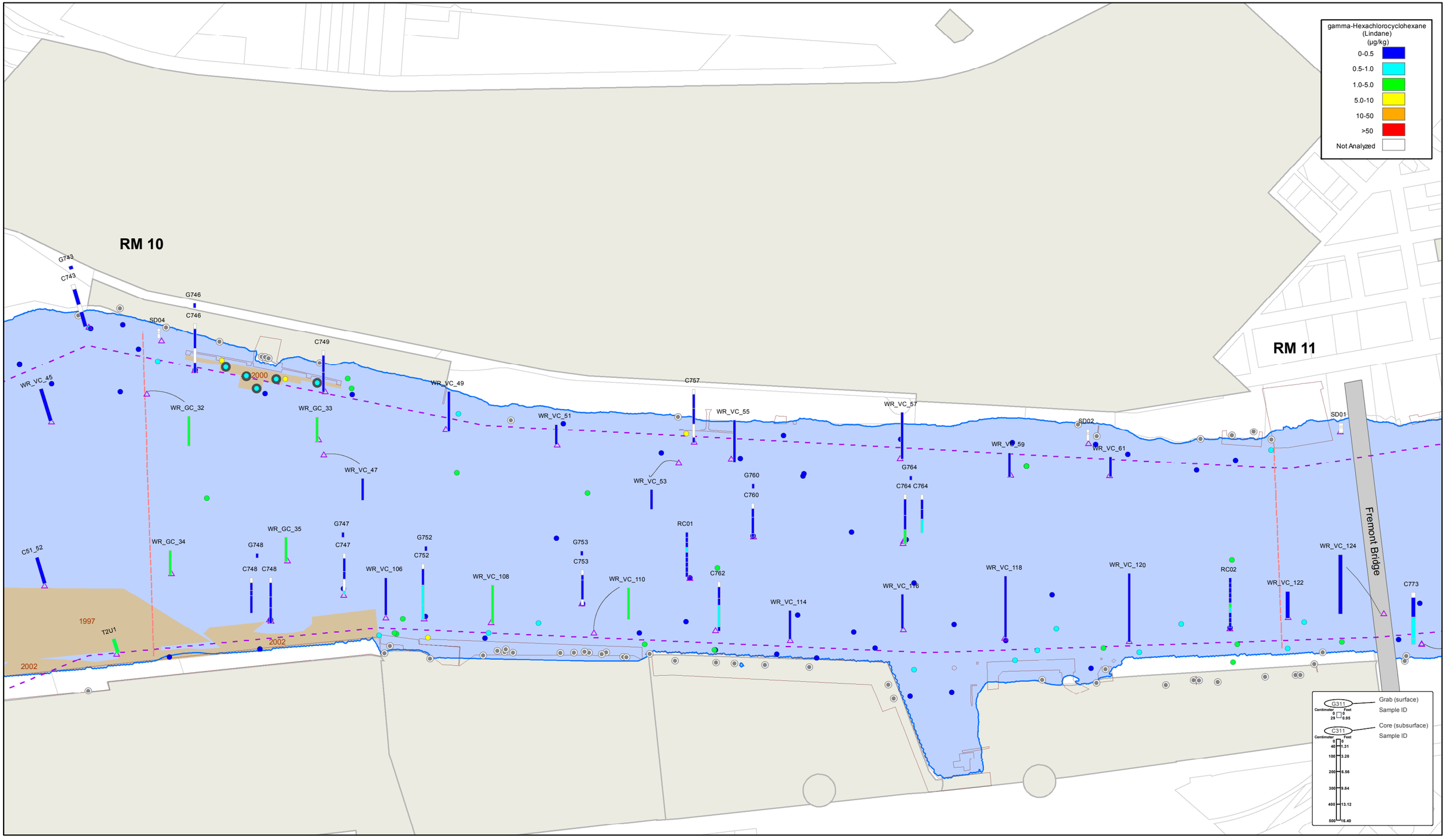
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 09 to 10



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

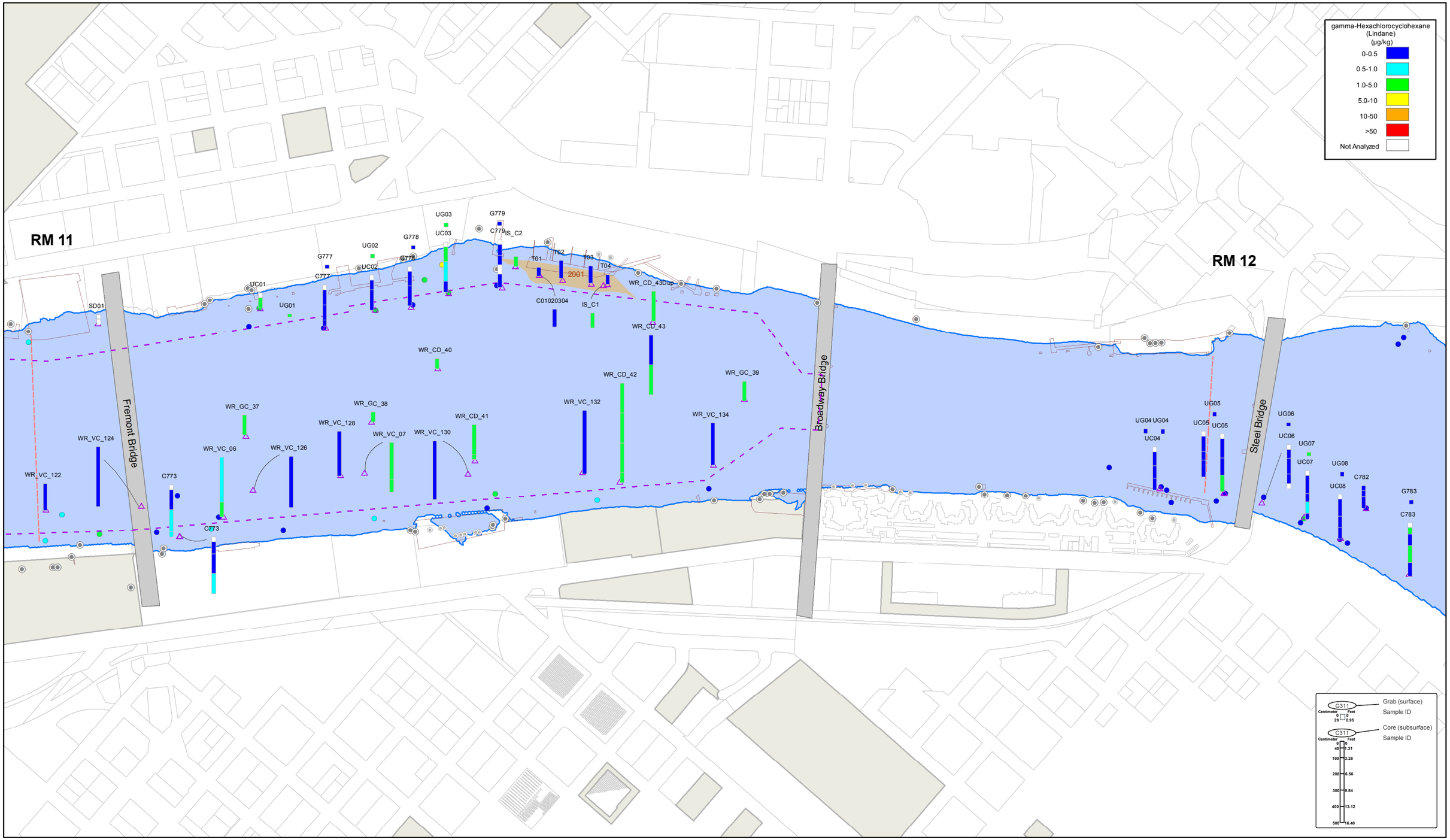
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 10 to 11



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

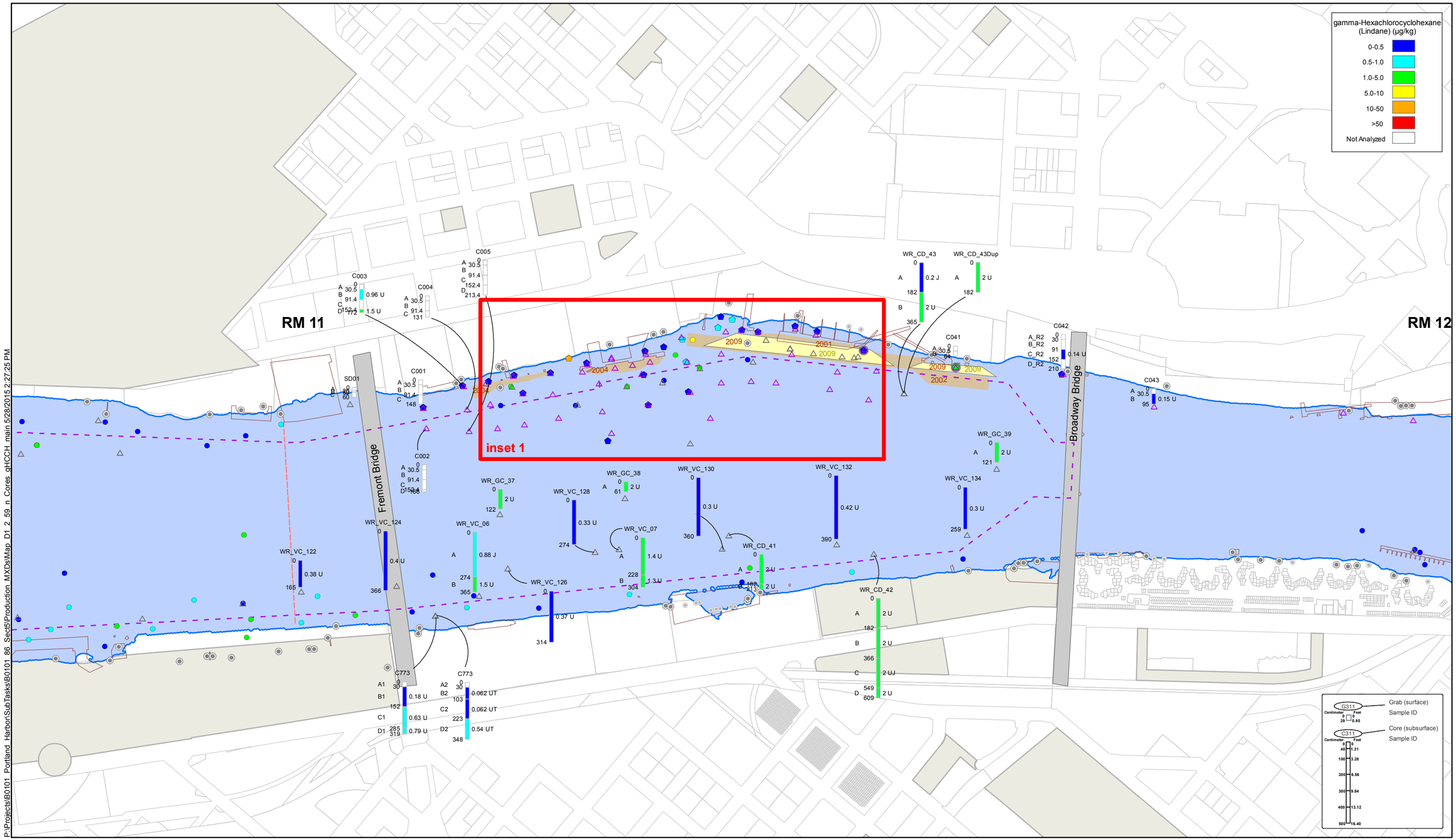
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-59m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
River Mile 11 to 12

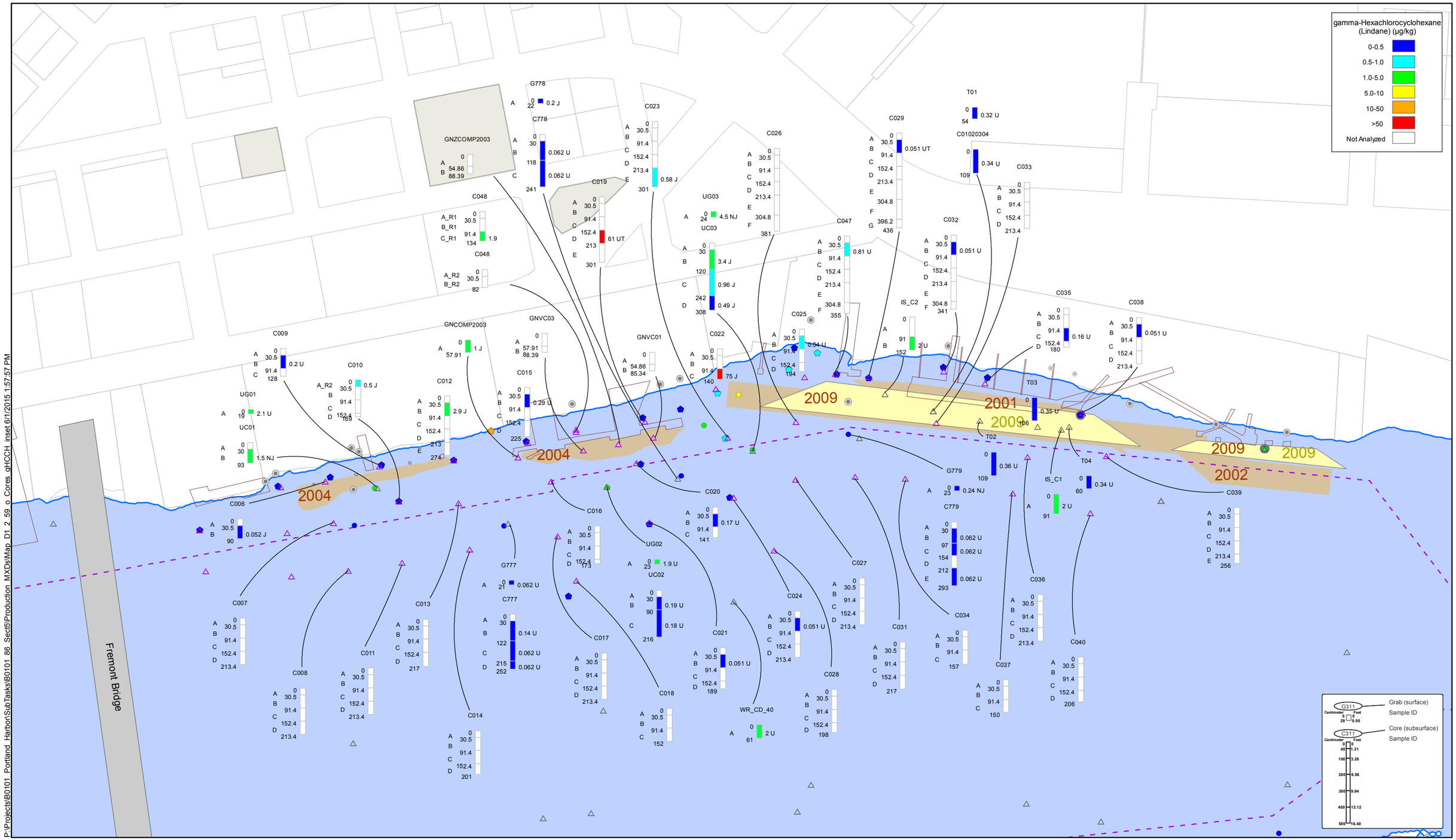


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

Map D1.2-59n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect6\Production_MXDs\Map_D1_2_59_n_Cores_gHCCH_main 5/28/2015 2:27:25 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

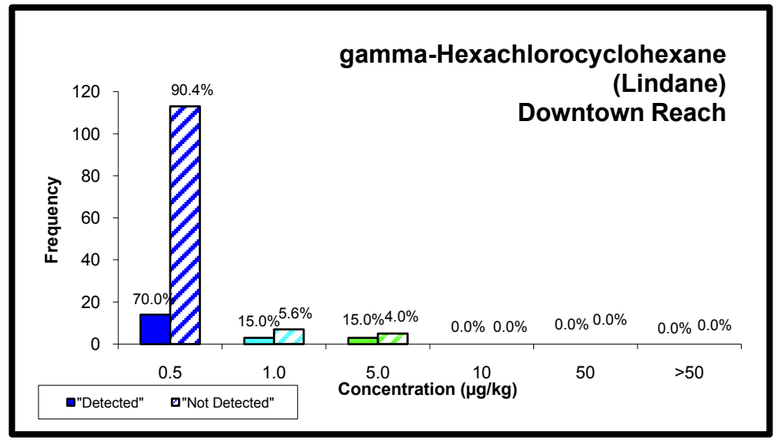
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

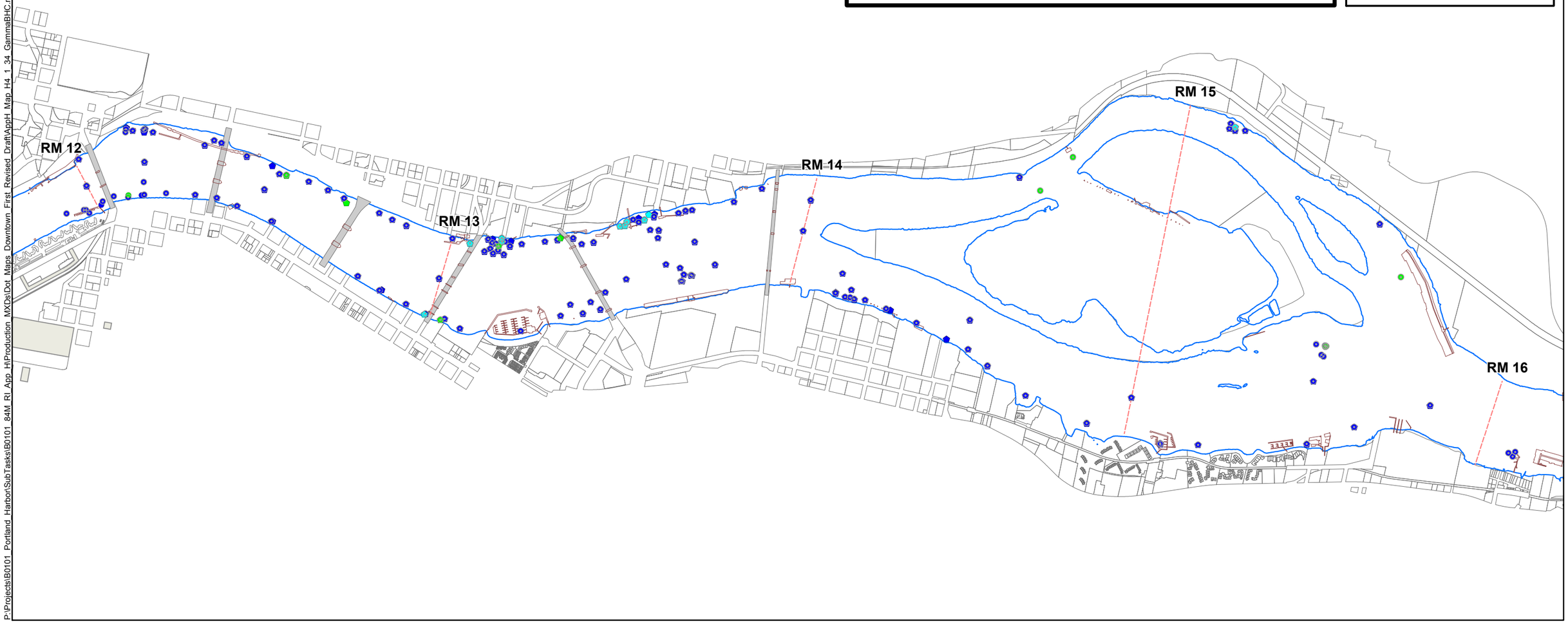
Map D1.2-59o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)

River Mile 11.0 - 11.8 - Inset 1



gamma-Hexachlorocyclohexane
(Lindane)
(µg/kg)

- 0-0.5
- 0.5-1.0
- 1.0-5.0
- 5.0-10
- 10-50
- >50
- Detected
- Not Detected



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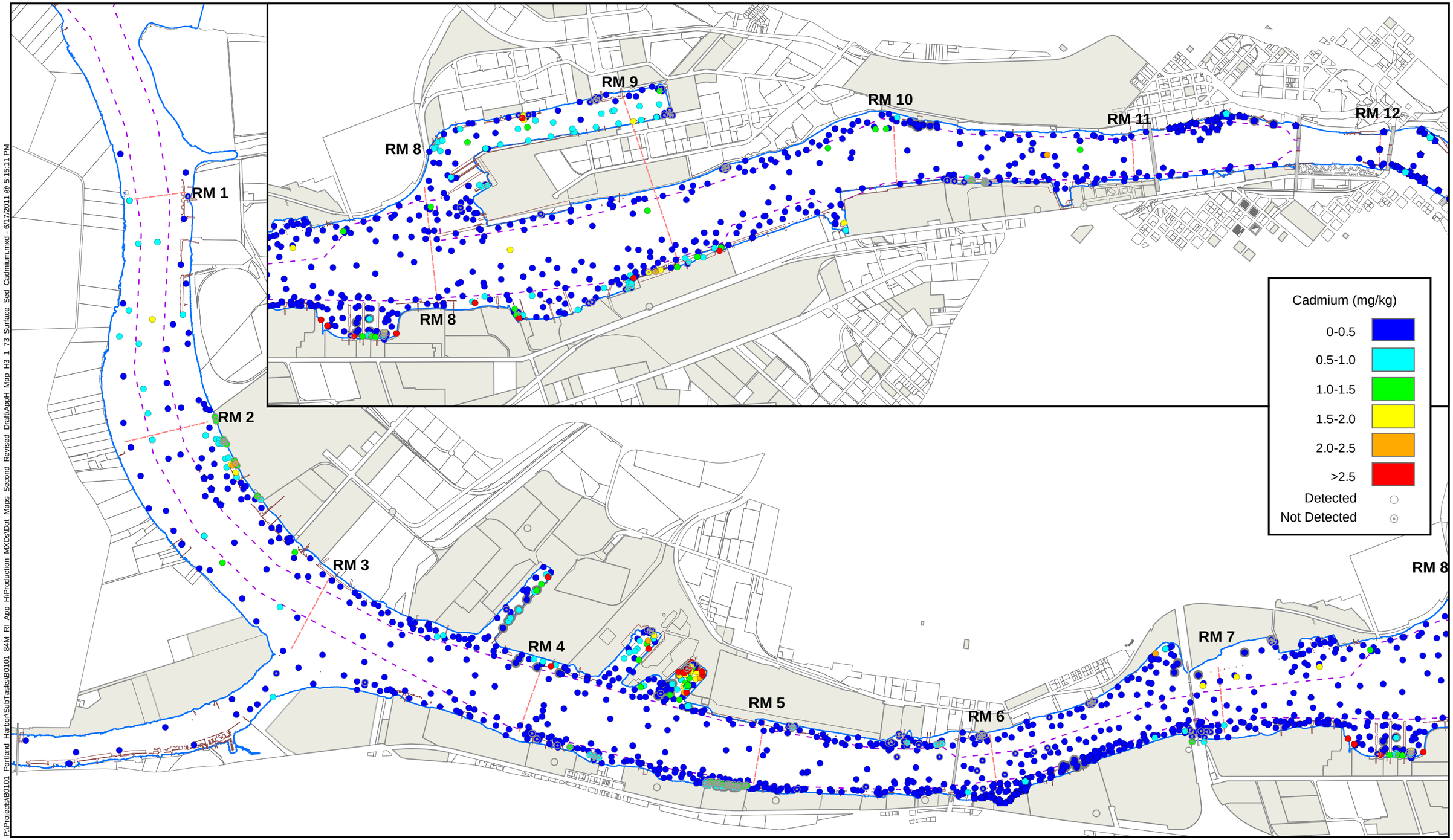
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-60
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
gamma-Hexachlorocyclohexane (Lindane) (µg/kg)
Downtown Reach



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N

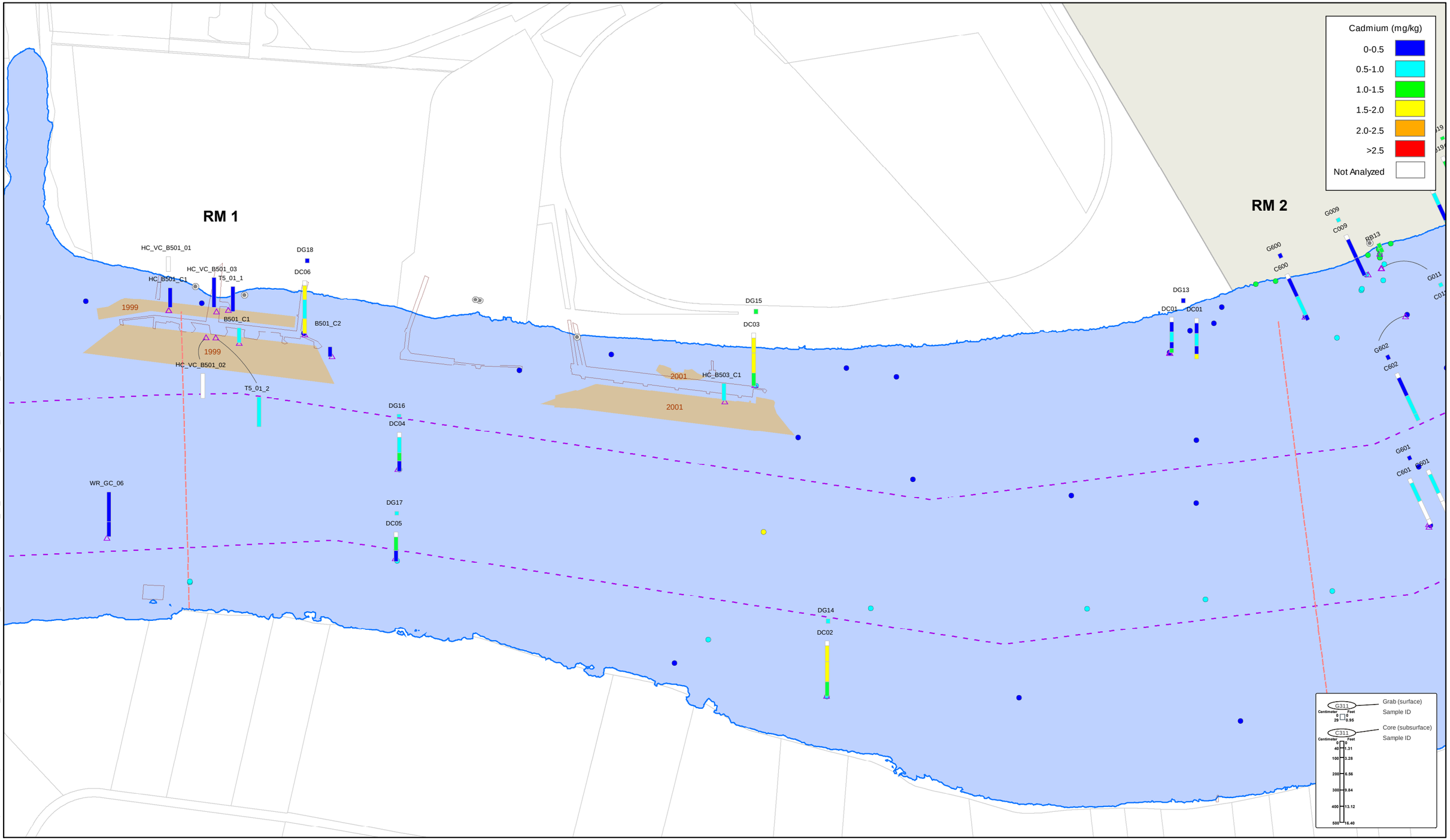
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-61
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Cadmium (mg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

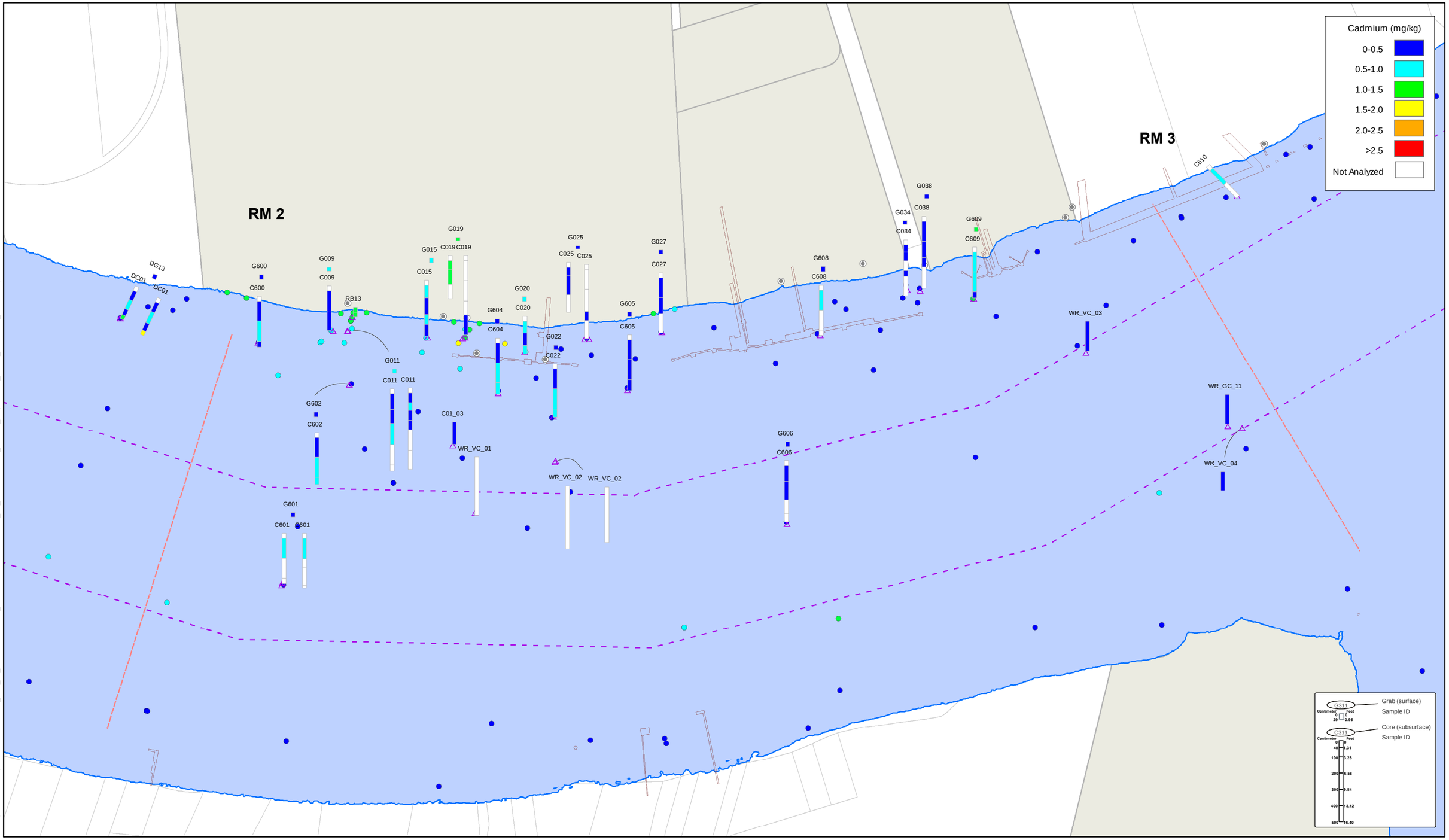
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

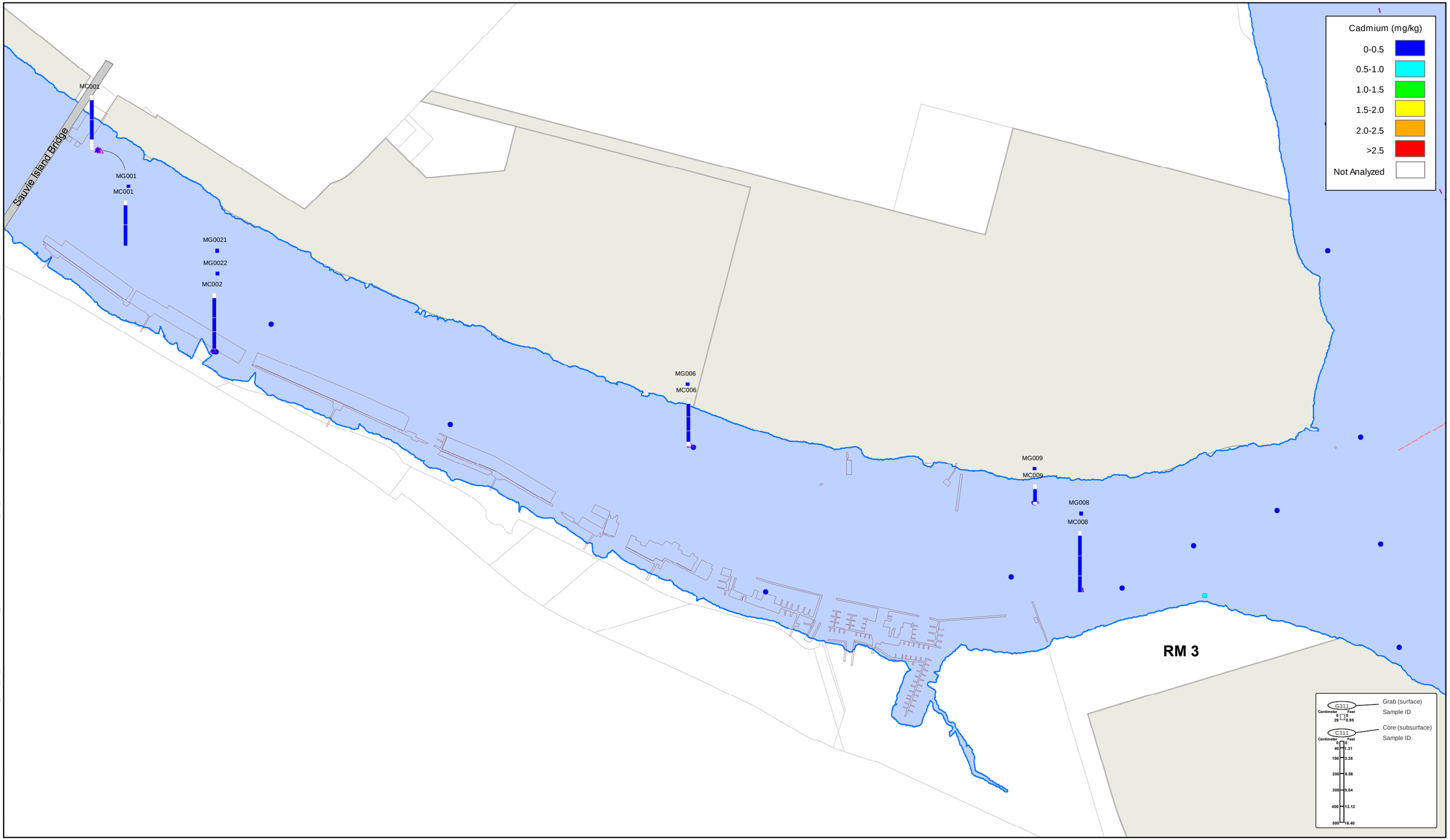
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

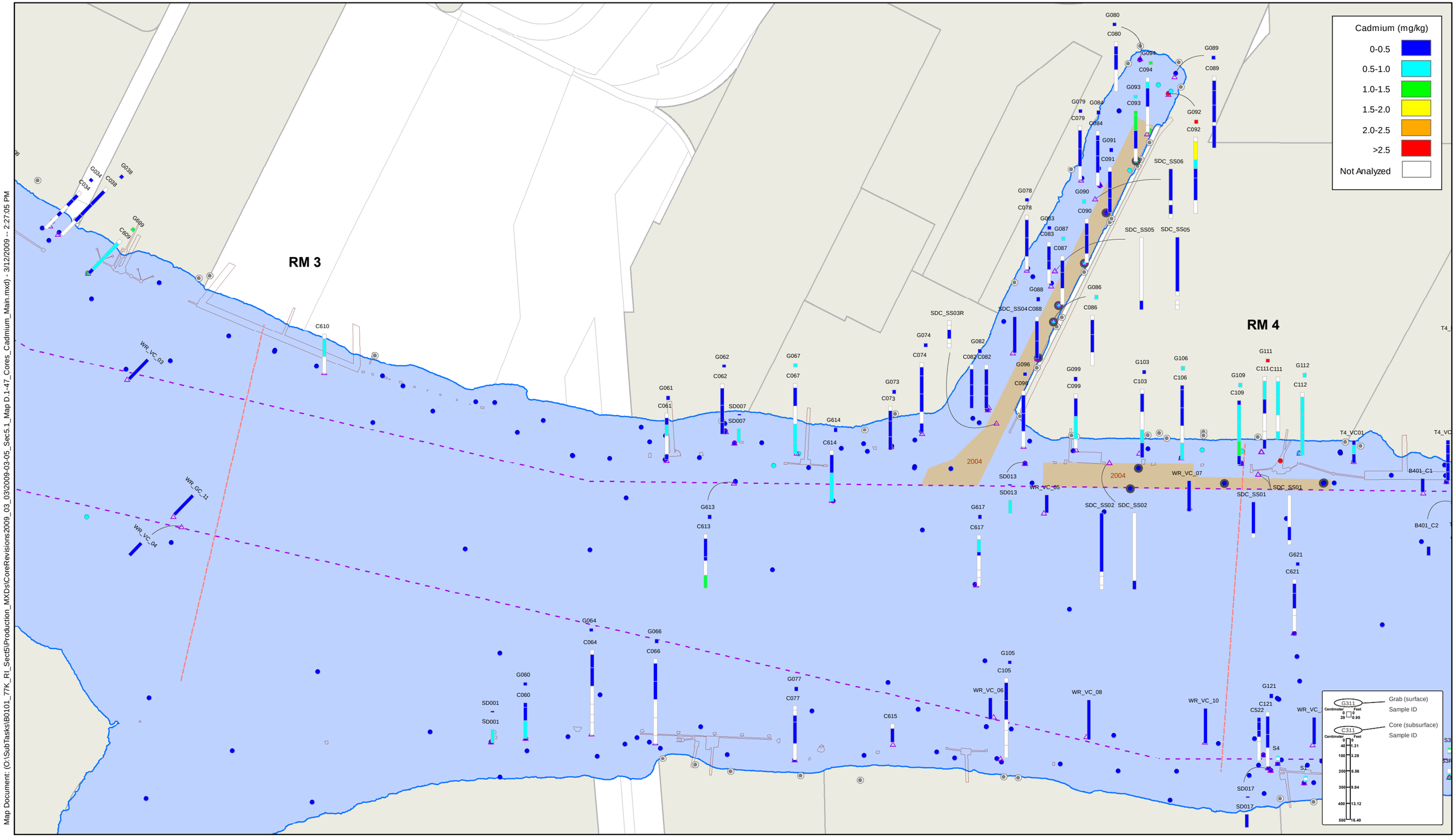
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 03 - Multnomah Channel



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

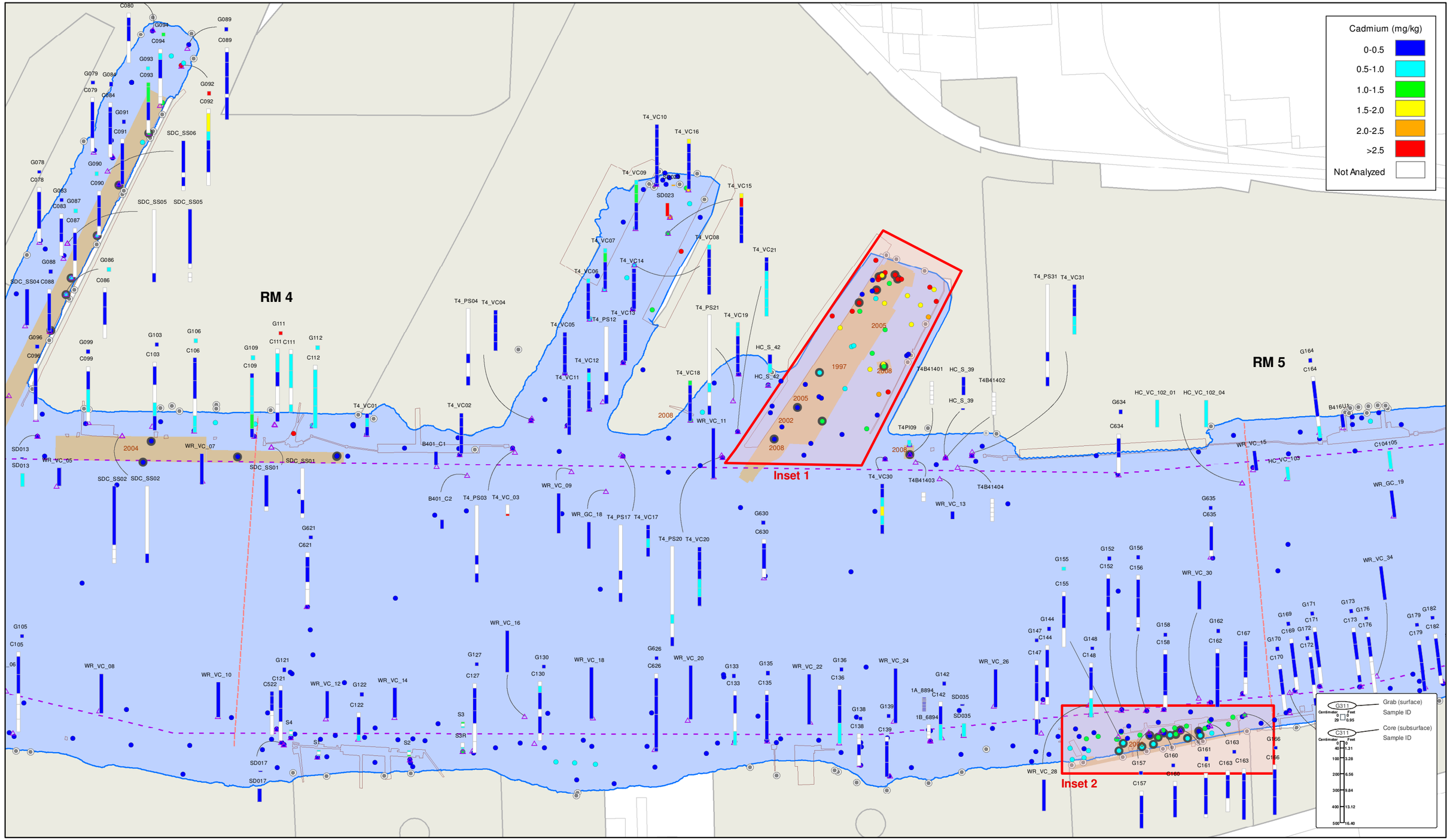
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 03 to 04



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-46_Cores_Cadmium_Main.mxd) 7/1/2009 -- 12:56:01 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

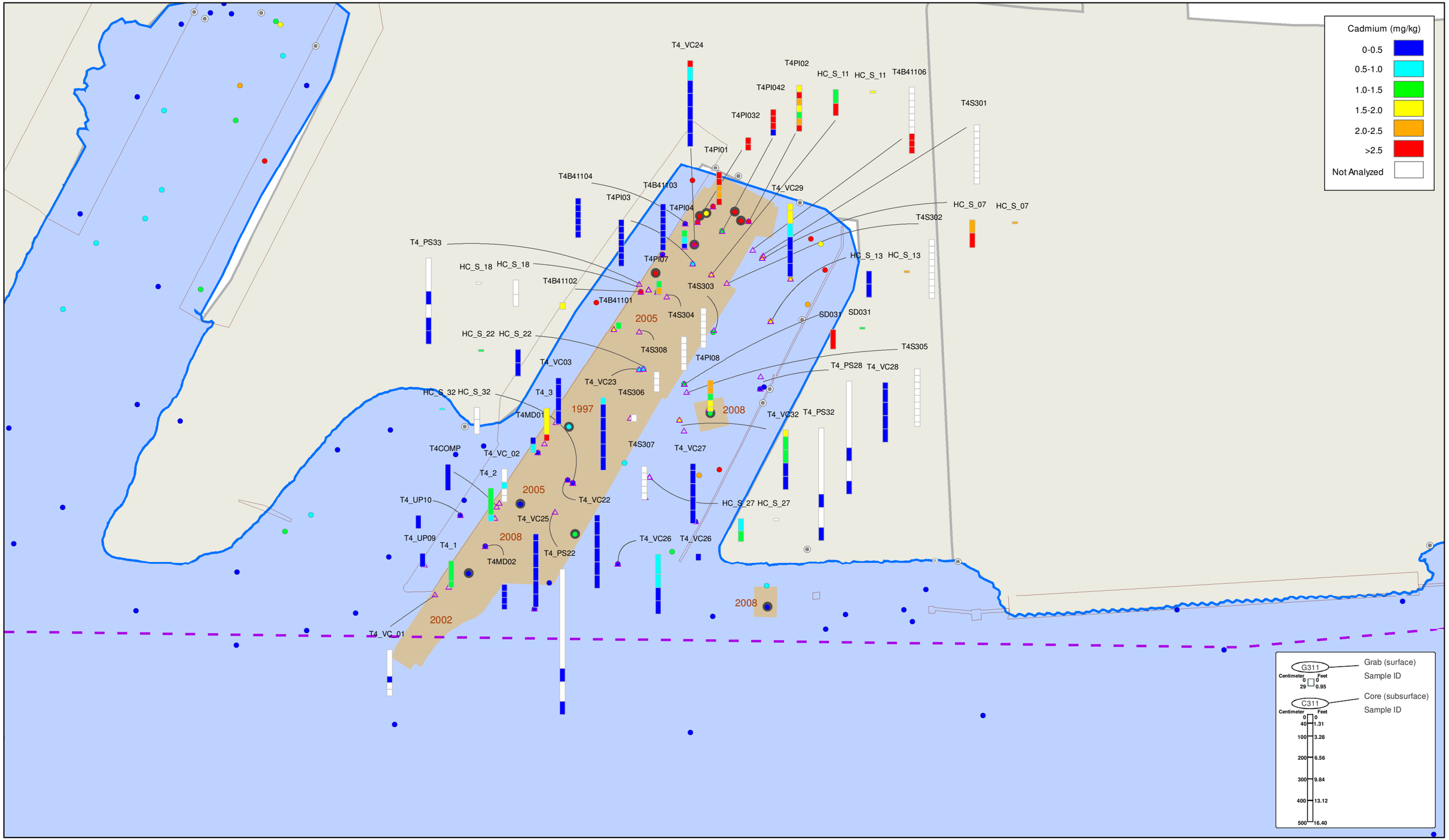
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 04 to 05 - Slips



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-46_Cores_Cadmium_Insets.mxd) 7/1/2009 -- 12:55:01 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 120 240 480 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

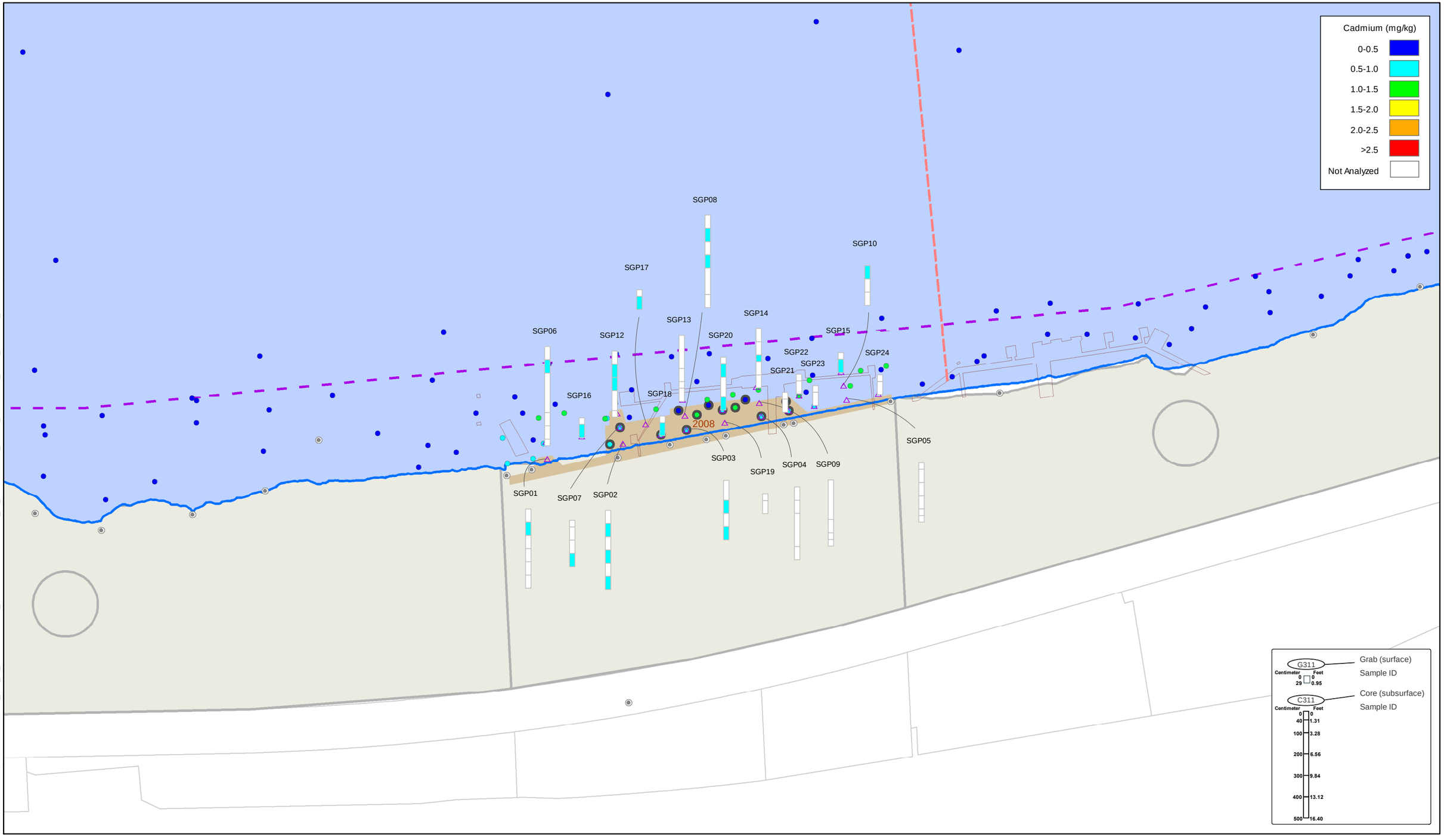
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 04 to 05 - Slips - Inset 1



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Insets.mxd) - 3/12/2009 -- 2:30:30 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

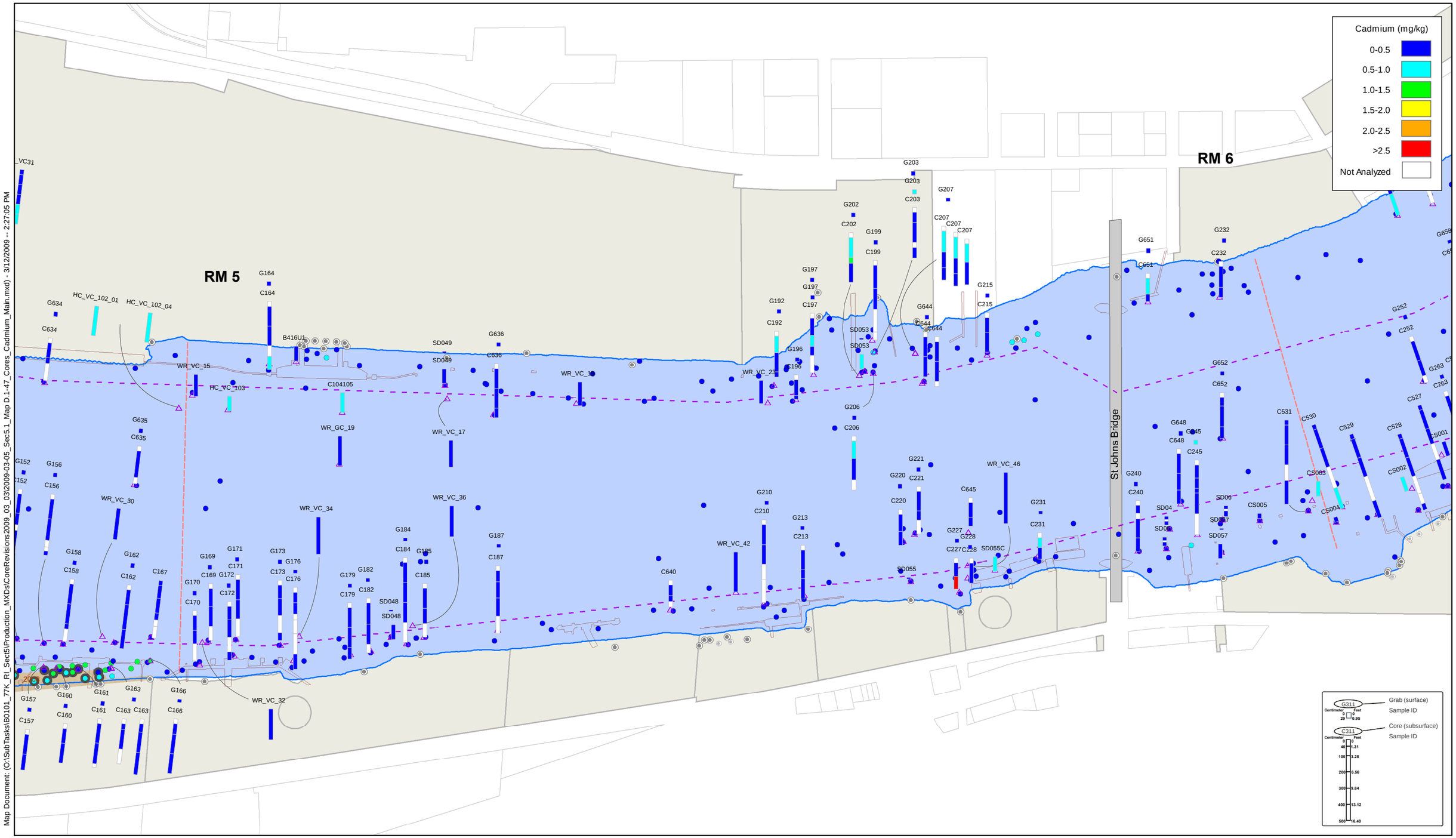
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62 e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 04 to 05 - Slips - Inset 2



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

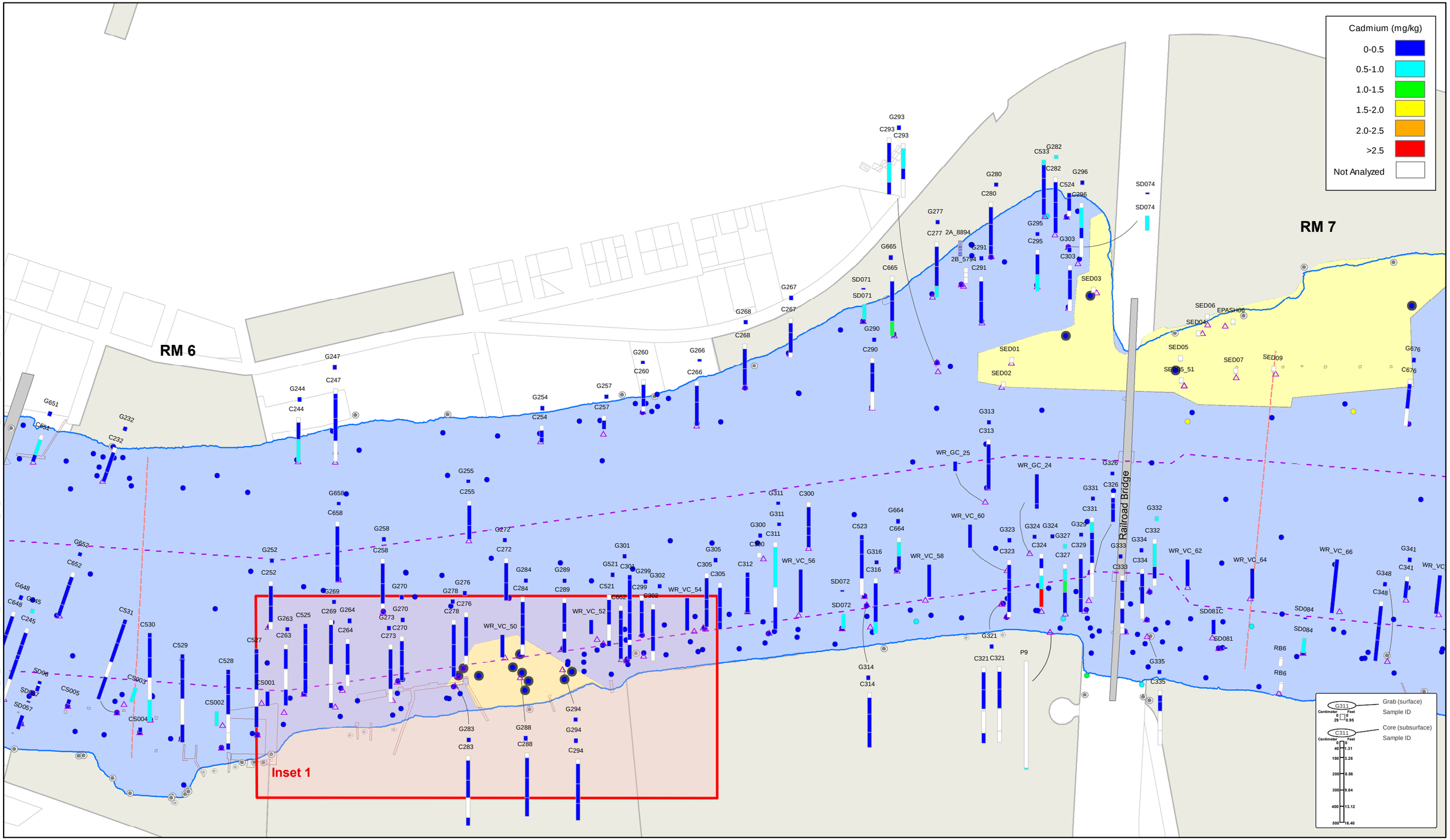
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 05 to 06



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

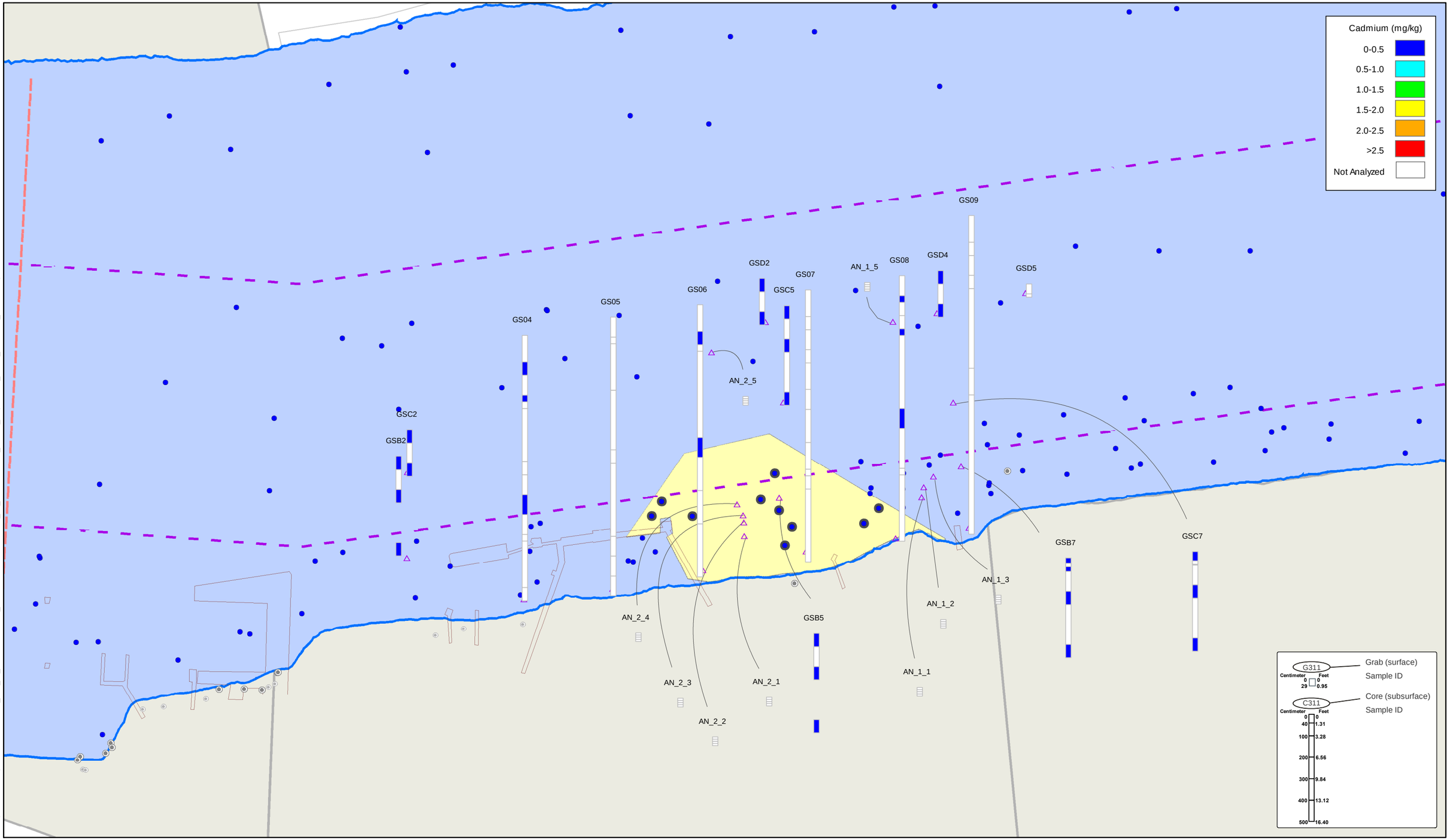
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Insets.mxd) - 3/12/2009 -- 2:30:30 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

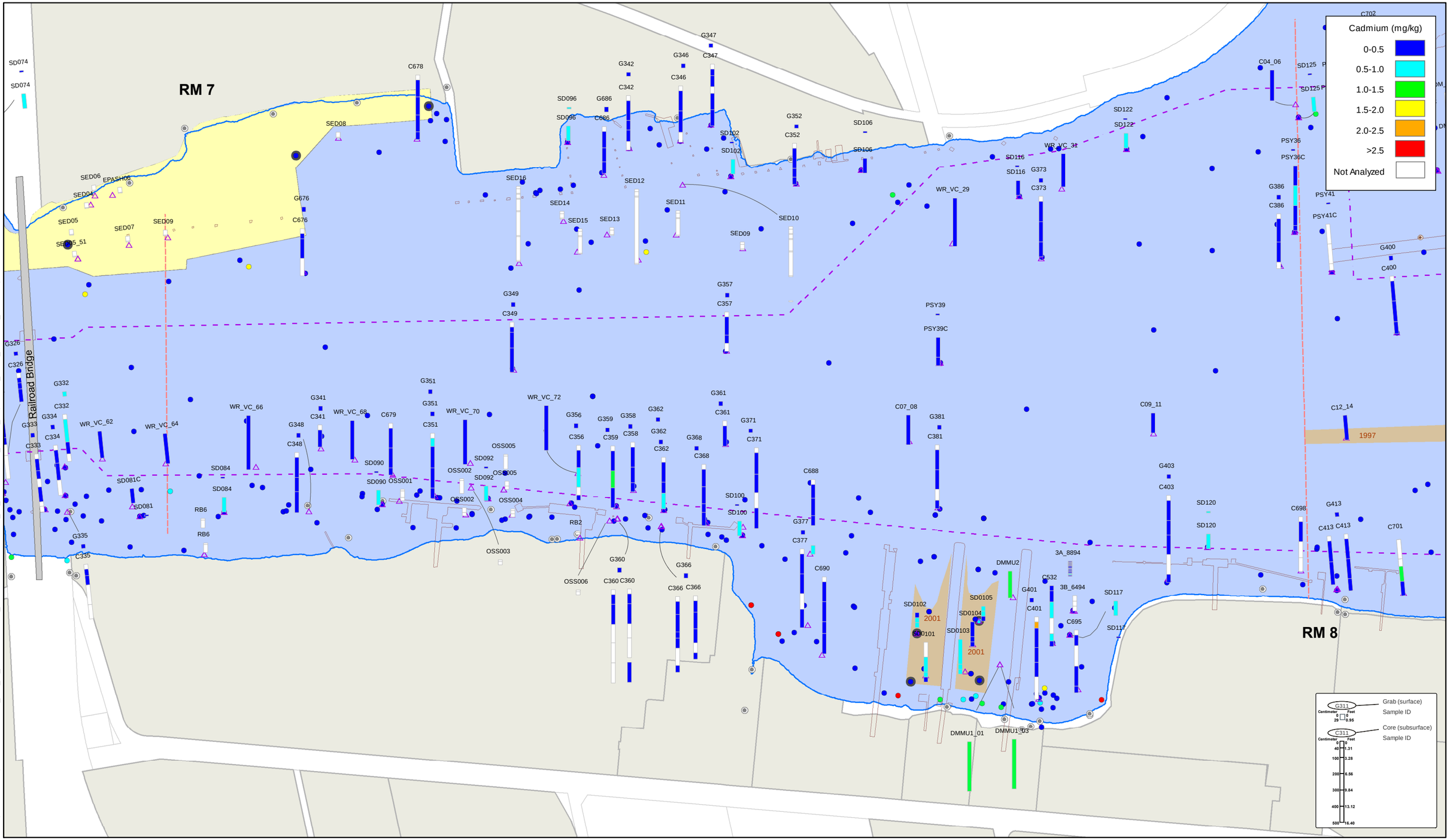
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 06 to 07 - Inset 1



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

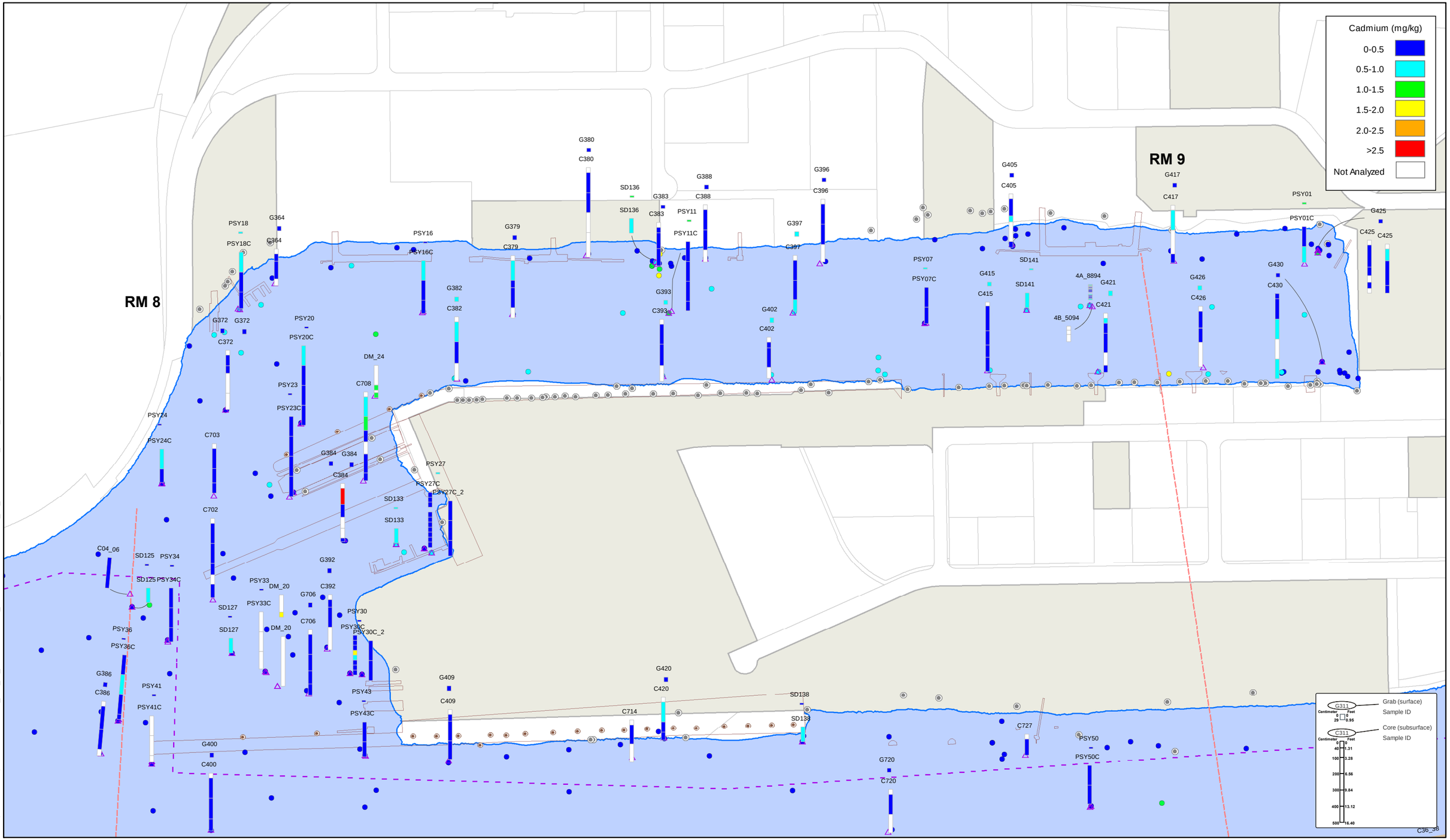
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

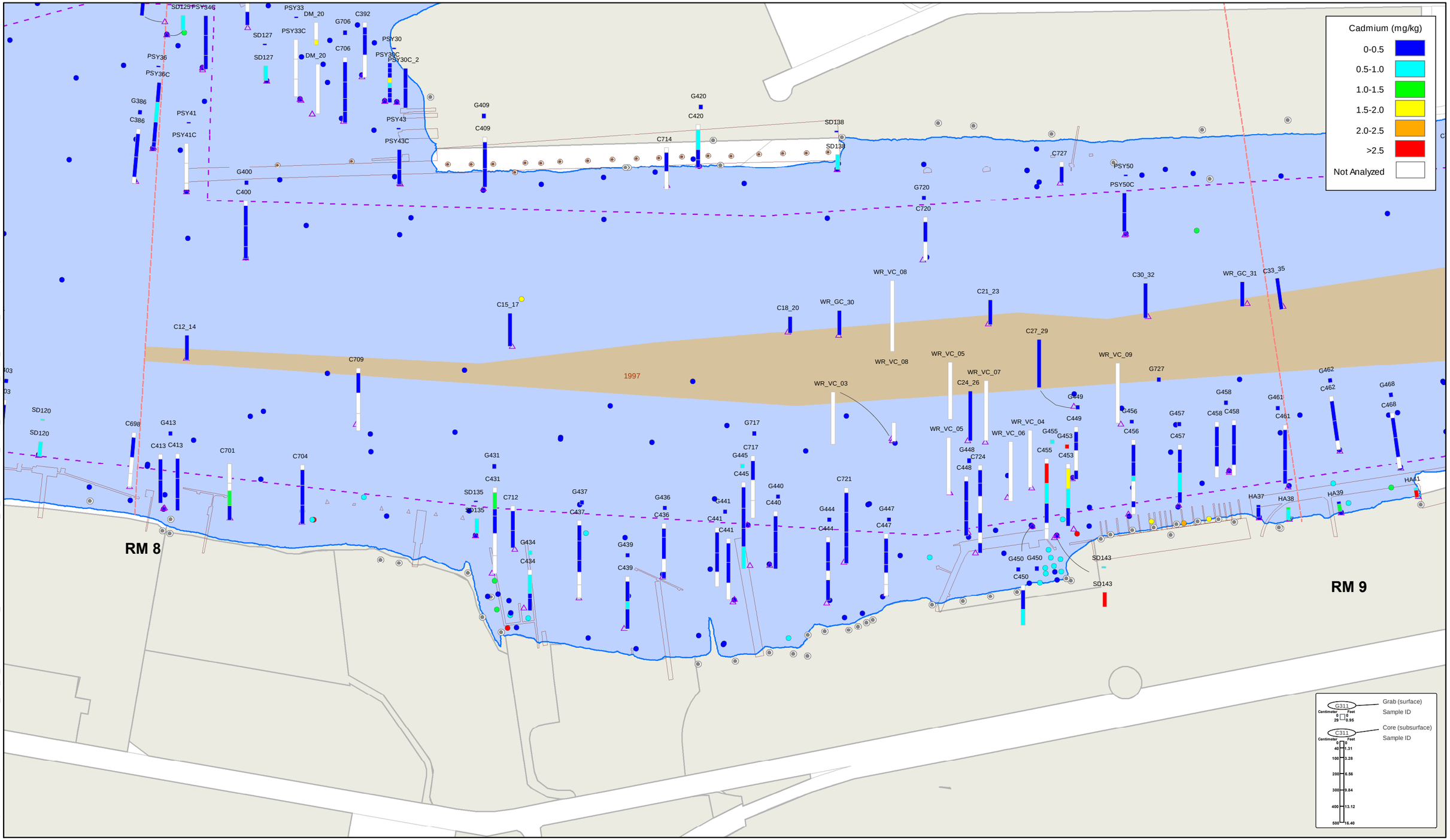
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 08 to 09 - Swan Is. East



Map Document: (O:\Subtasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

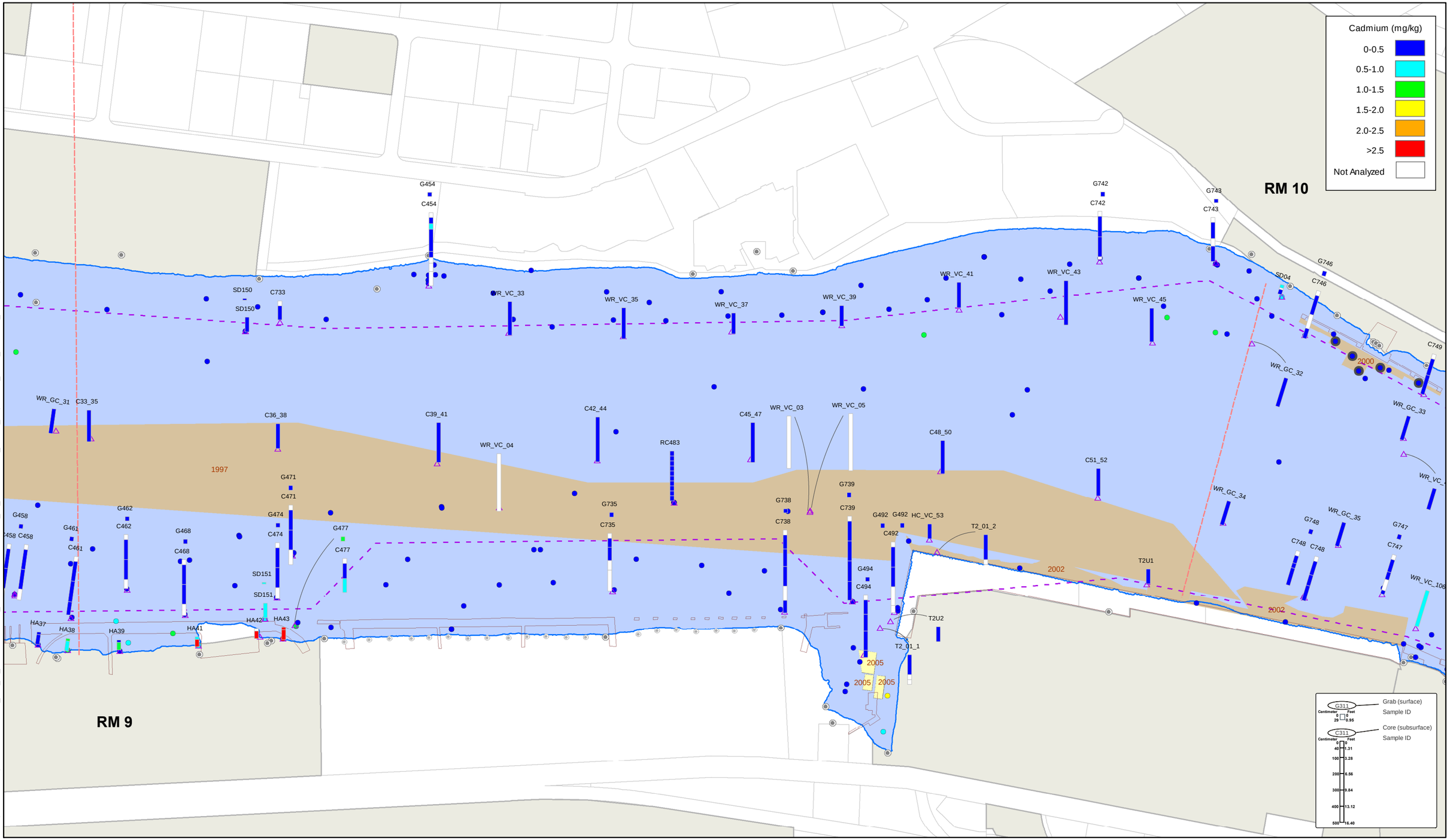
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 08 to 09 - Swan Is. West



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

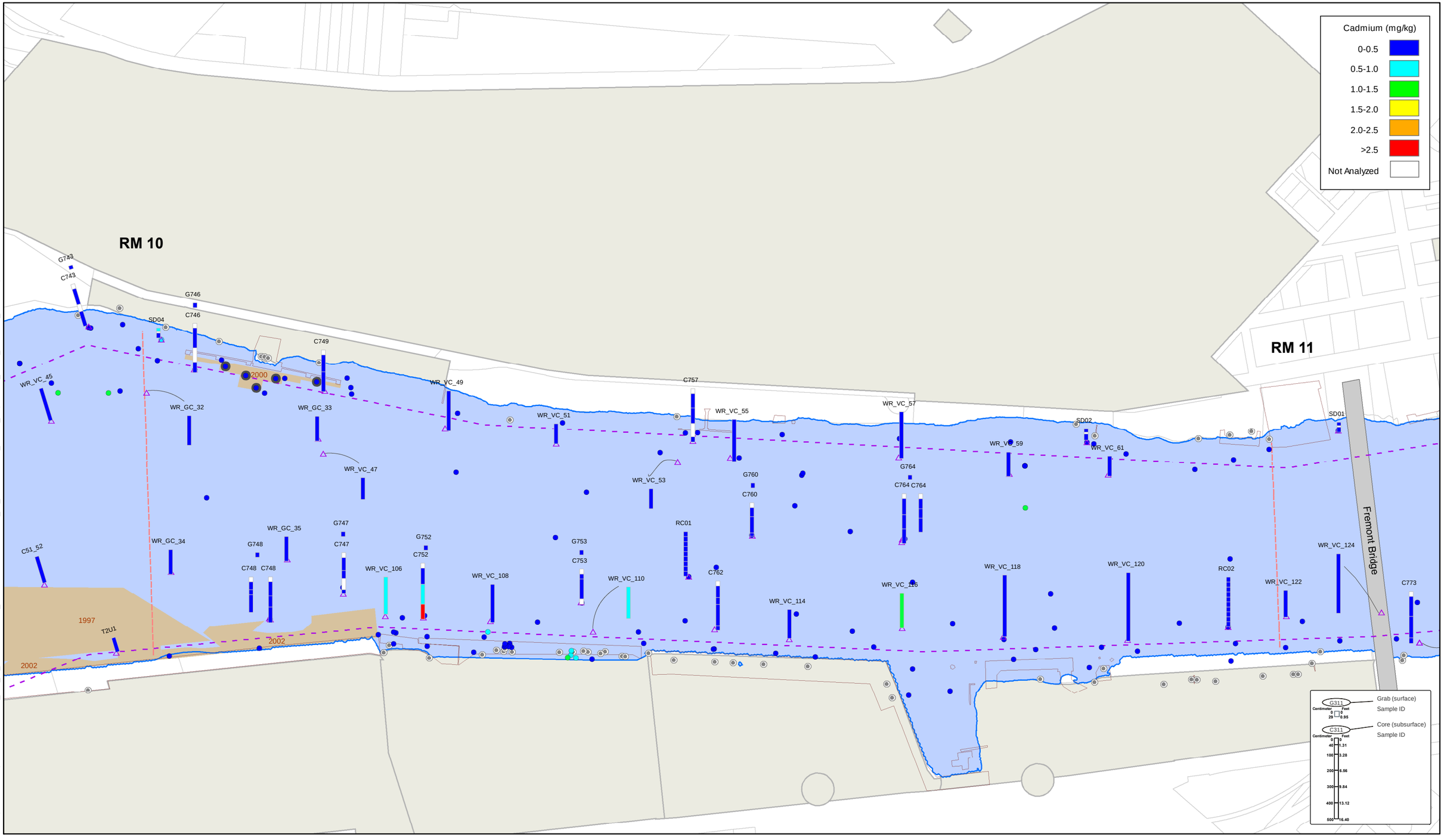
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 09 to 10



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

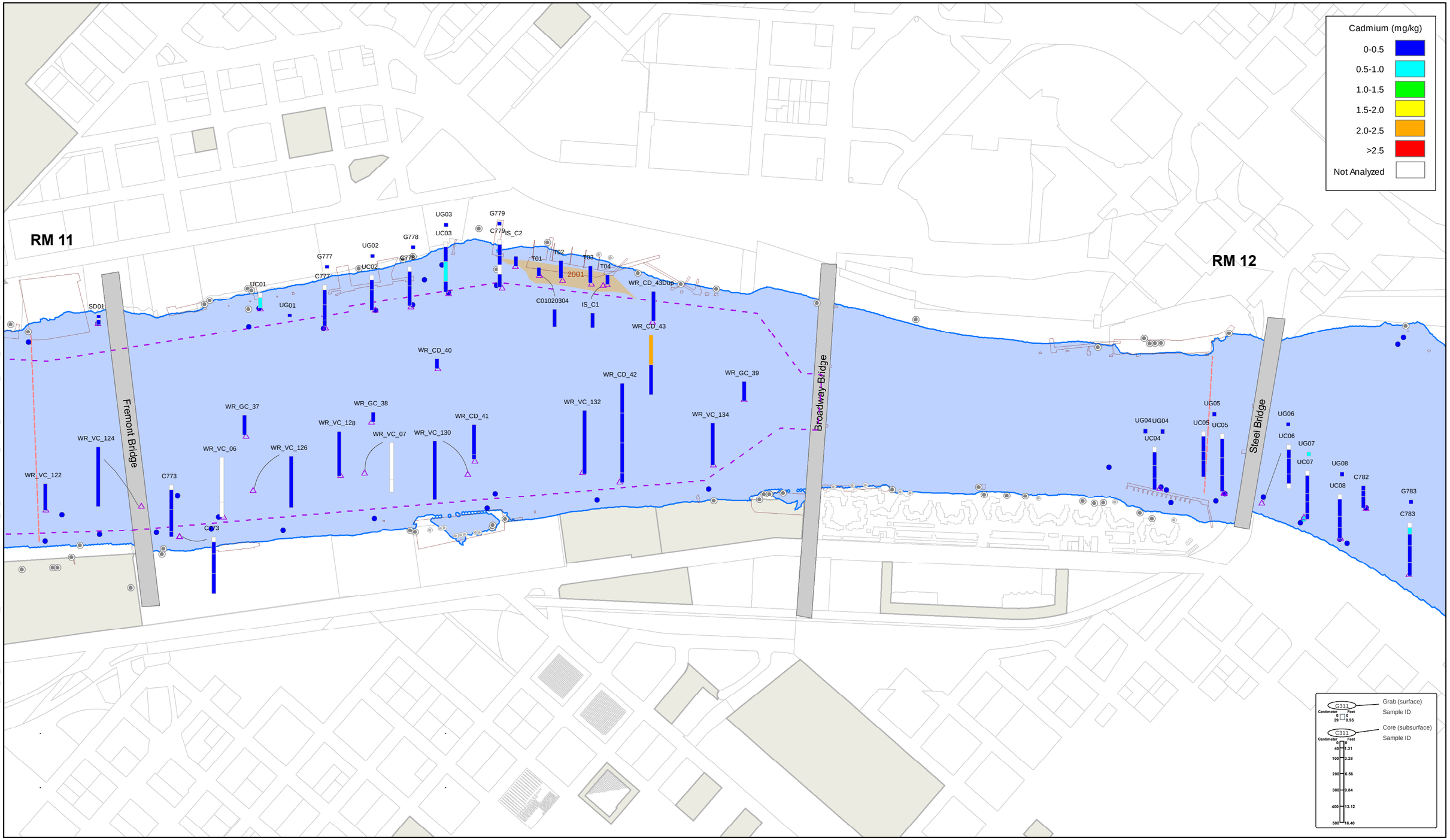
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 10 to 11



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

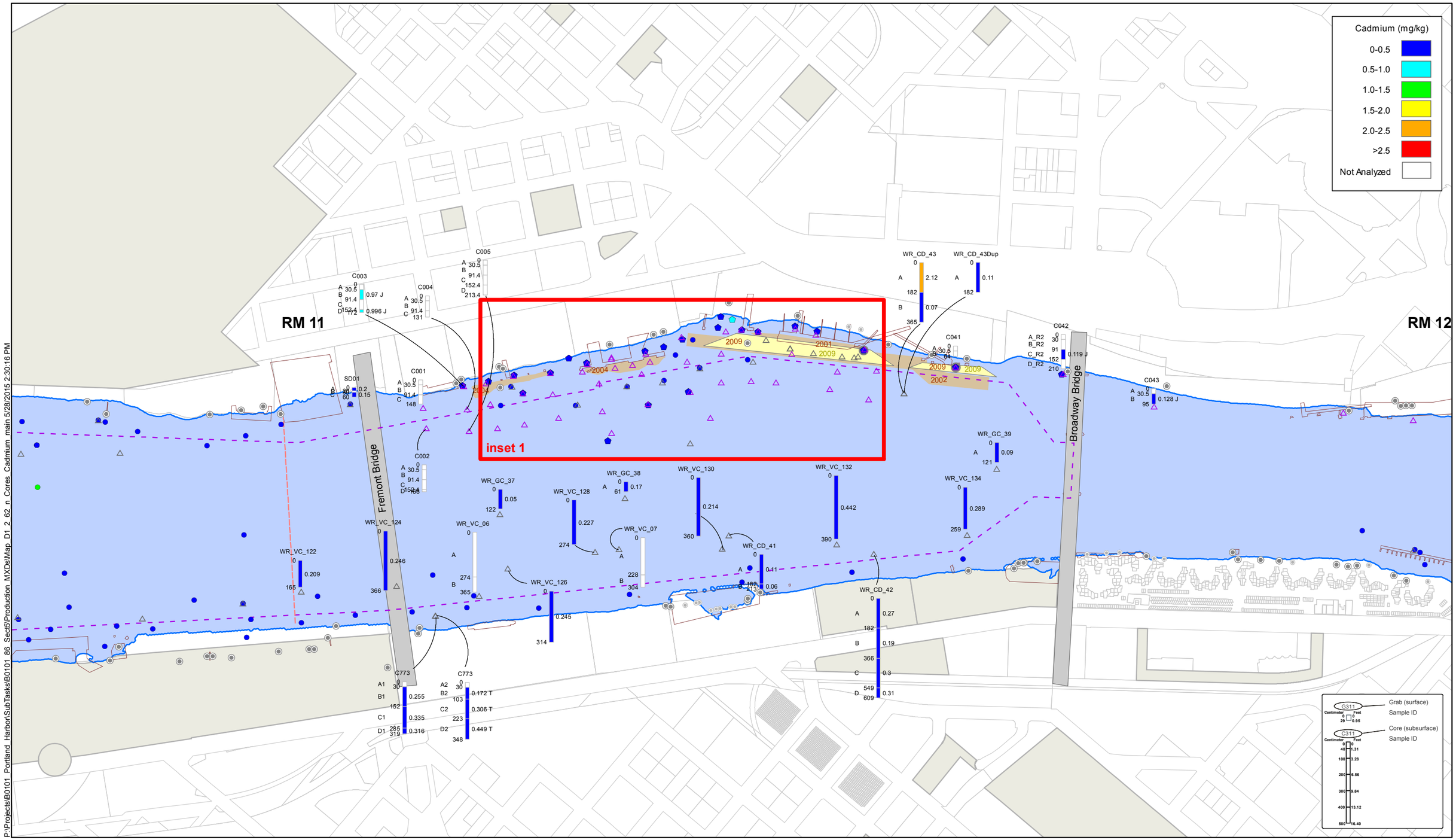
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)
River Mile 11 to 12

Map Document: (Q:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-47_Cores_Cadmium_Main.mxd) - 3/12/2009 -- 2:27:05 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 11.0 - 11.8

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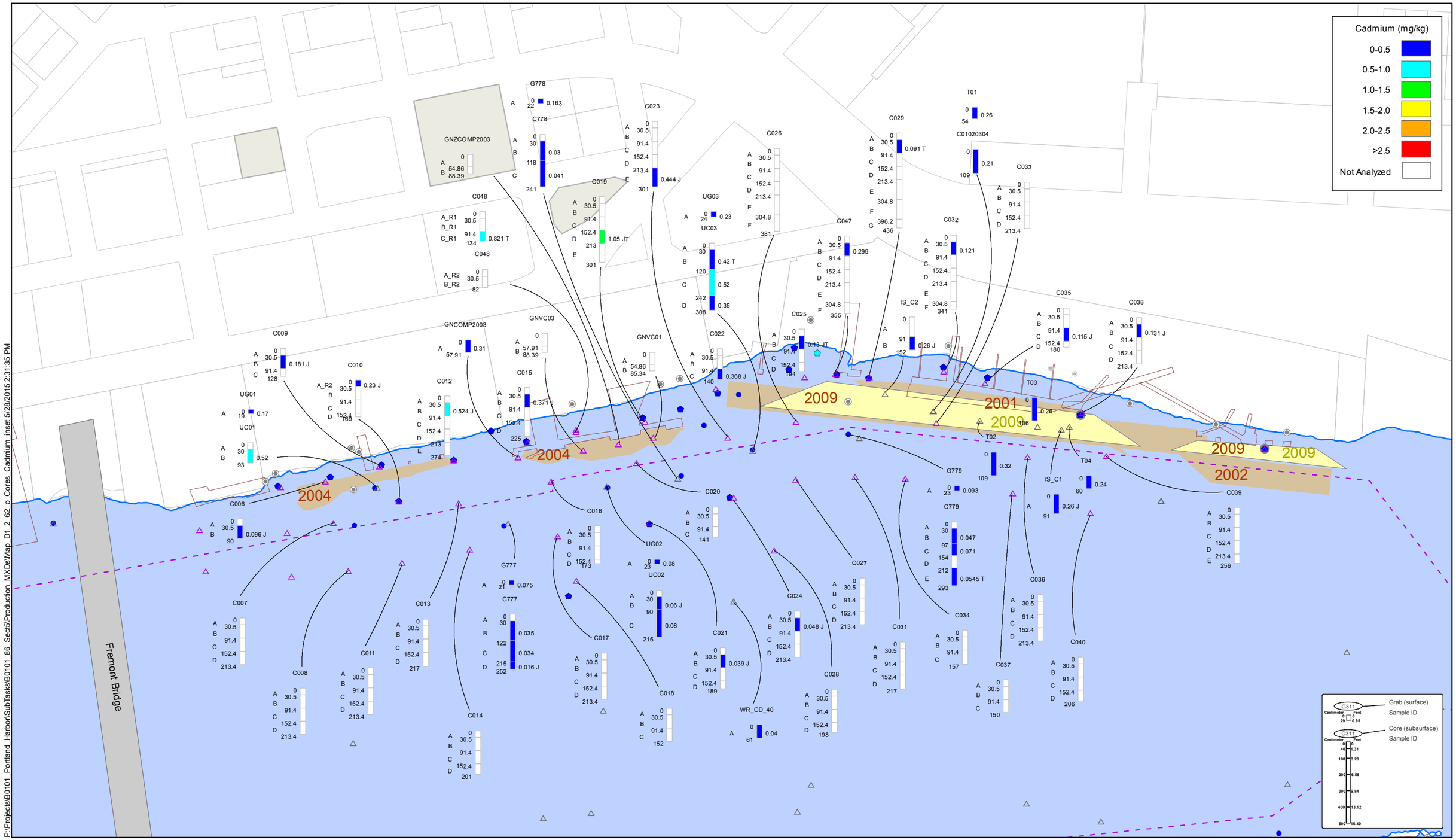

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

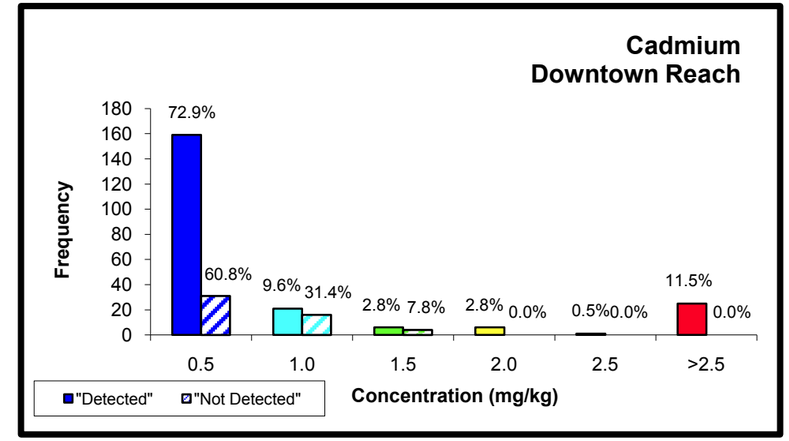
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-62o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Cadmium (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



Cadmium (mg/kg)

- 0-0.5
- 0.5-1.0
- 1.0-1.5
- 1.5-2.0
- 2.0-2.5
- >2.5
- Detected
- Not Detected

RM 12

RM 13

RM 14

RM 15

RM 16

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_84M_RI_App_H\Production_MXDs\Dot_Maps_Downtown_First_Revised_Draft\AppH_Map_H4_1_37_Cadmium.mxd - 4/22/2011 @ 9:10:37 AM

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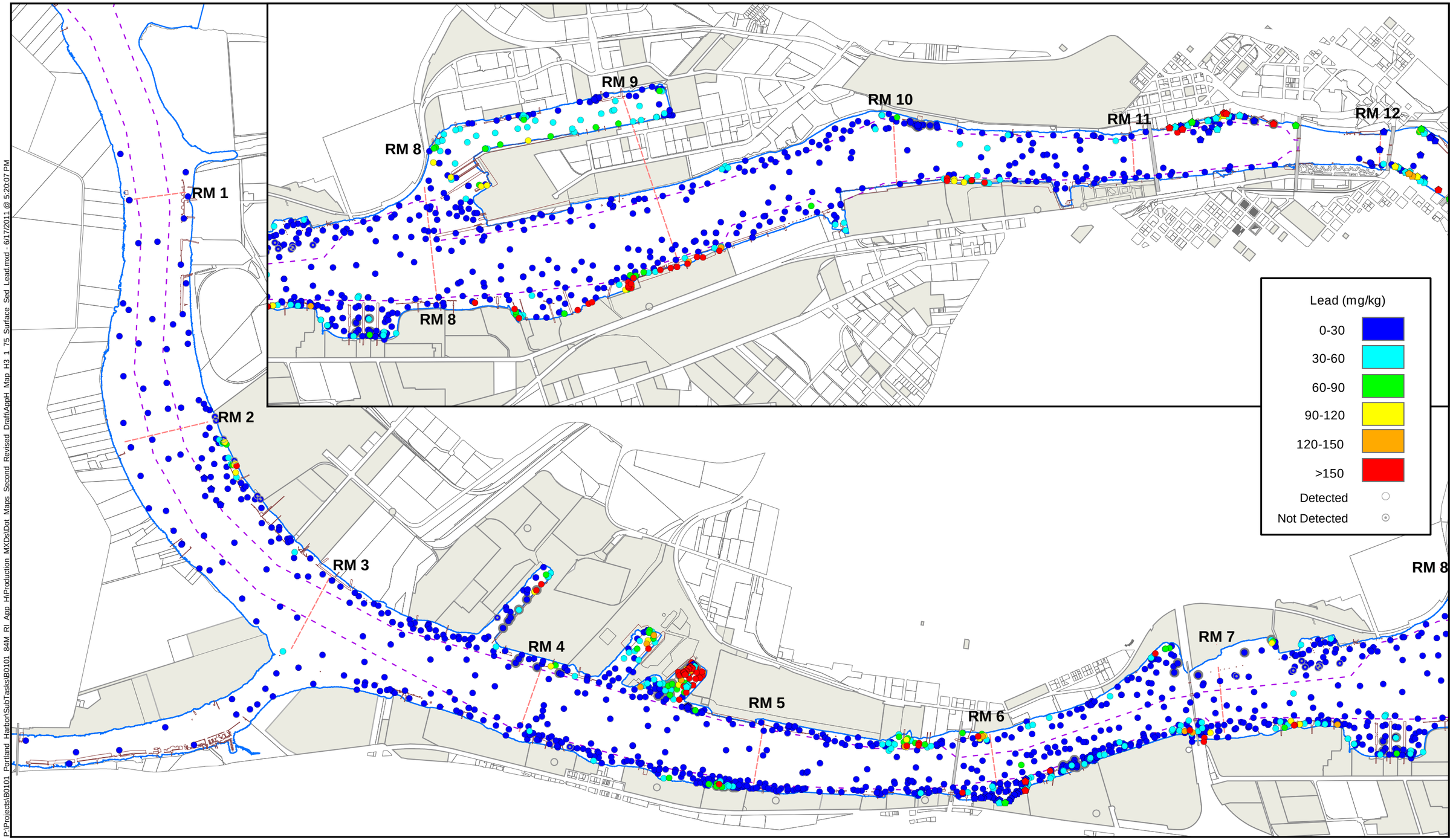
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-63
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Cadmium (mg/kg)
Downtown Reach



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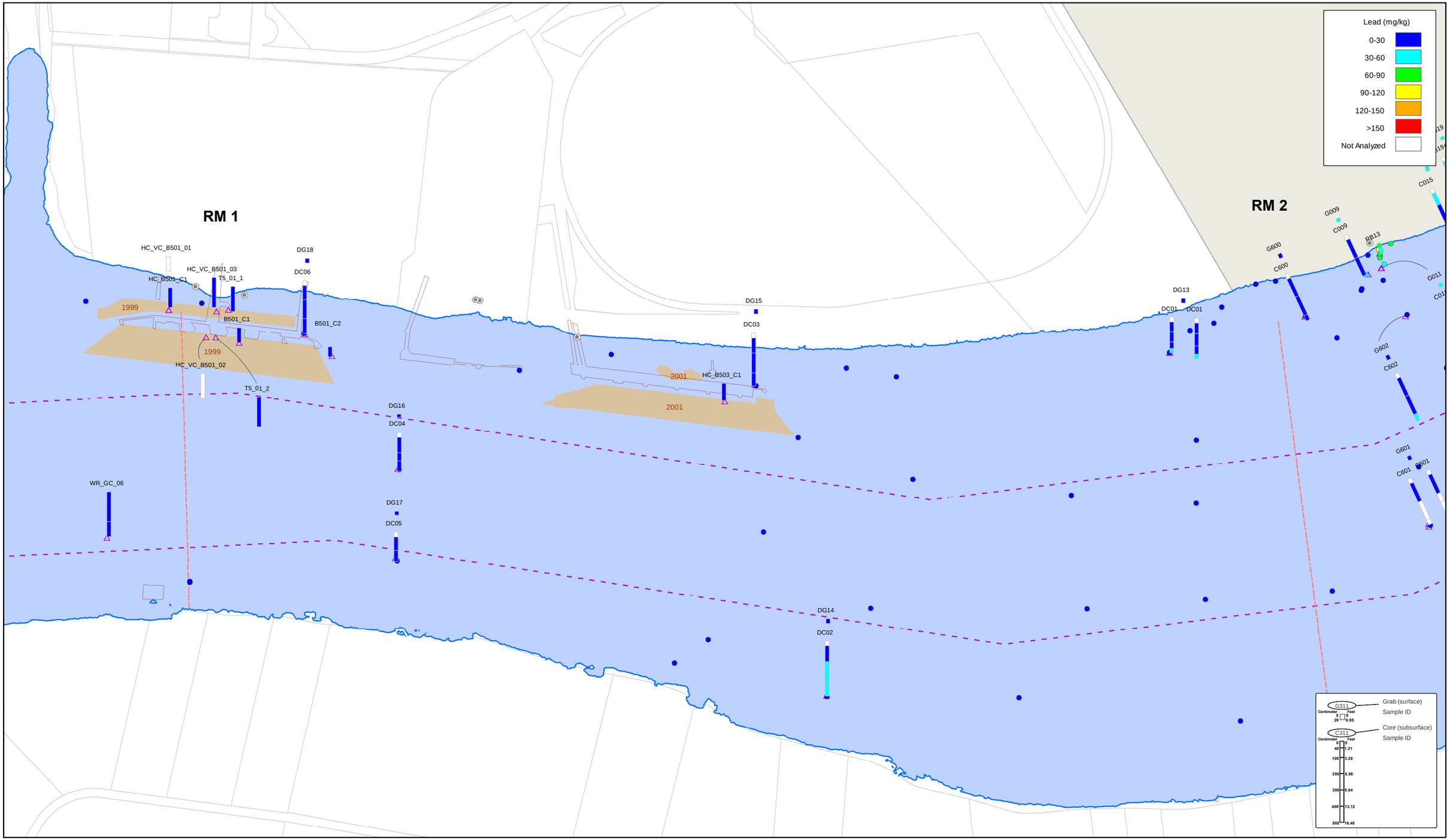
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-64
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Lead (mg/kg)



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Main.mxd) - 3/12/2009 -- 3:11:03 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

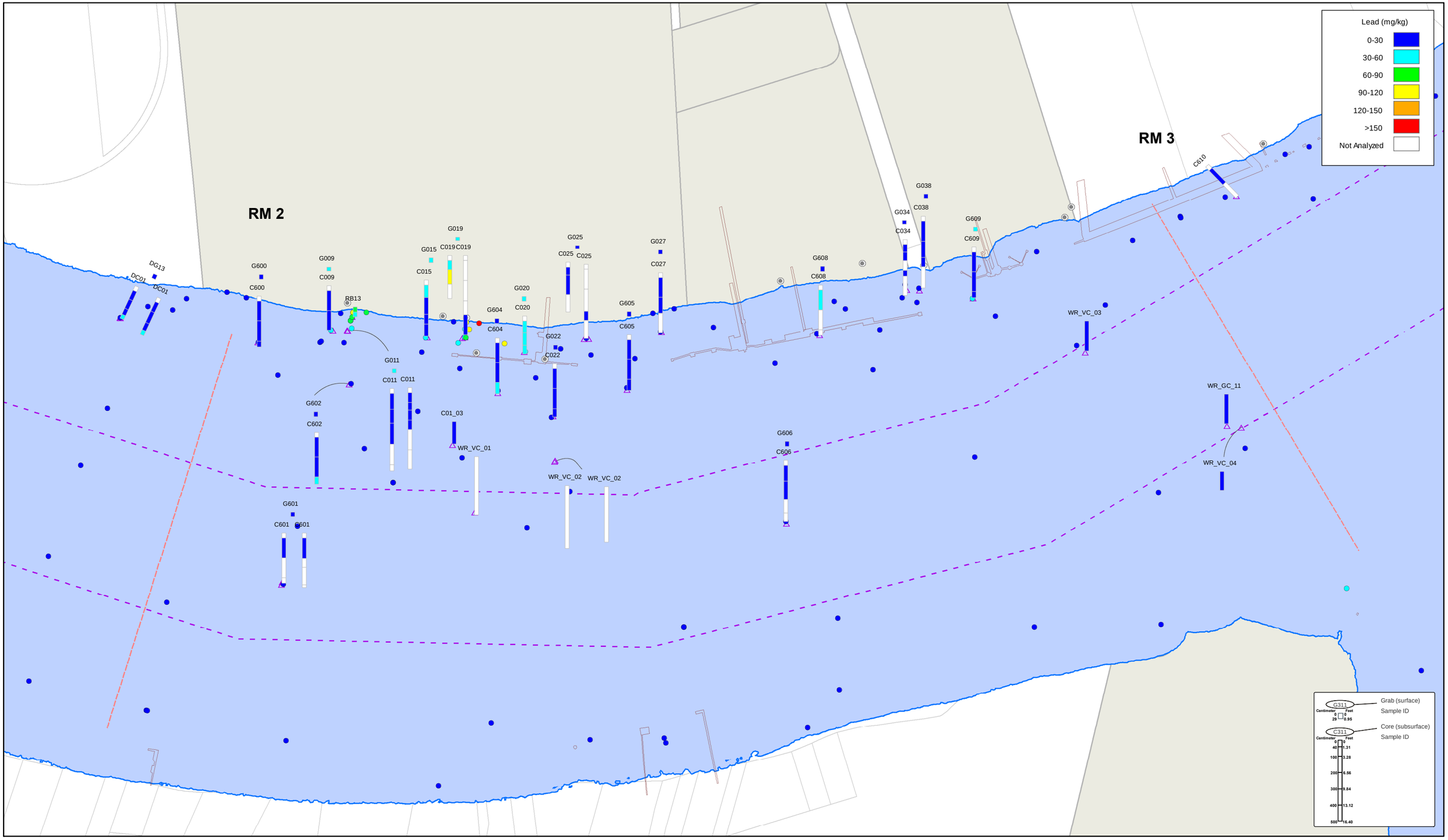
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 01 to 02



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Main.mxd) - 3/12/2009 -- 3:11:03 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

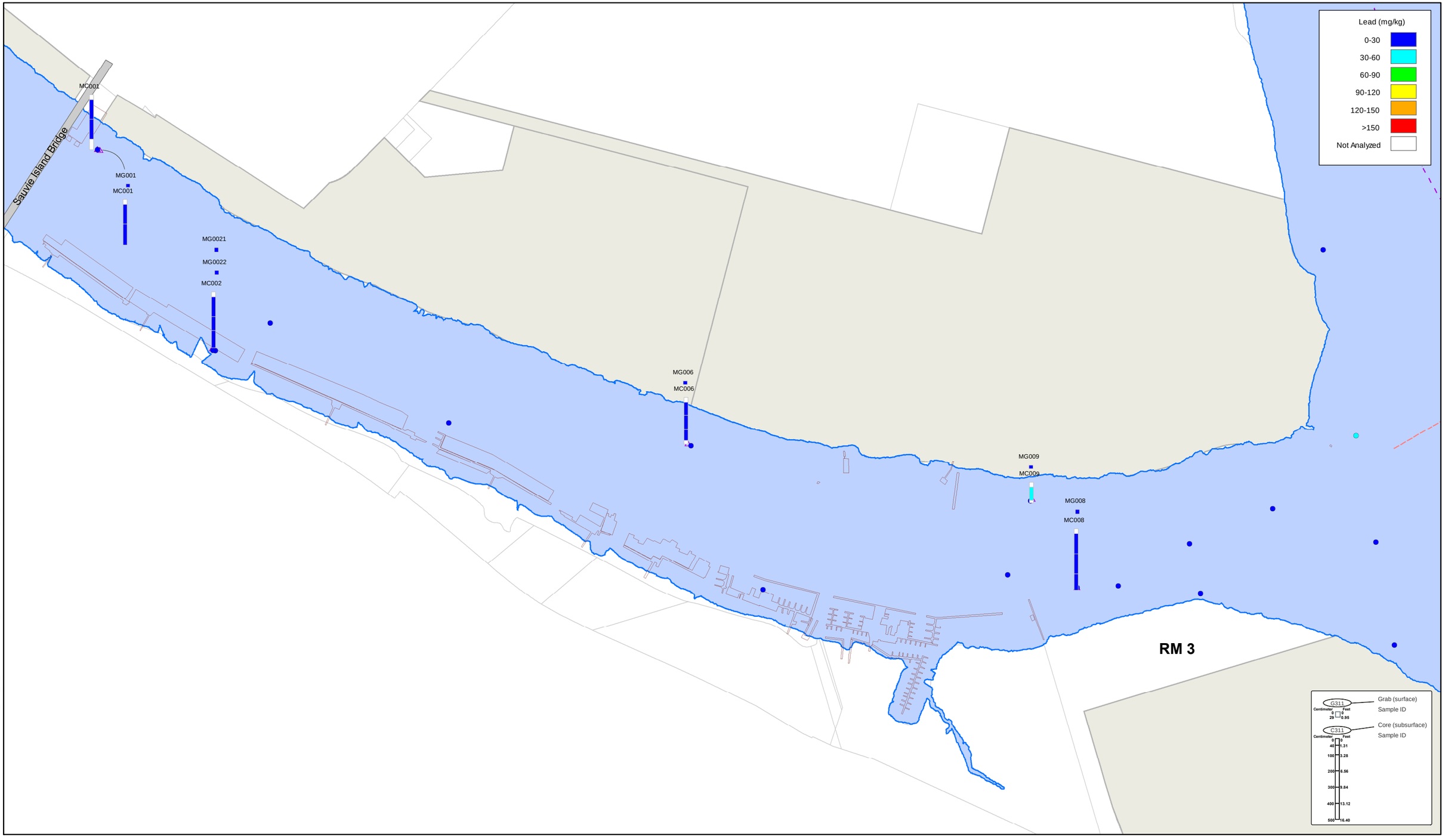
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 02 to 03

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Main.mxd) - 3/12/2009 -- 3:11:03 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

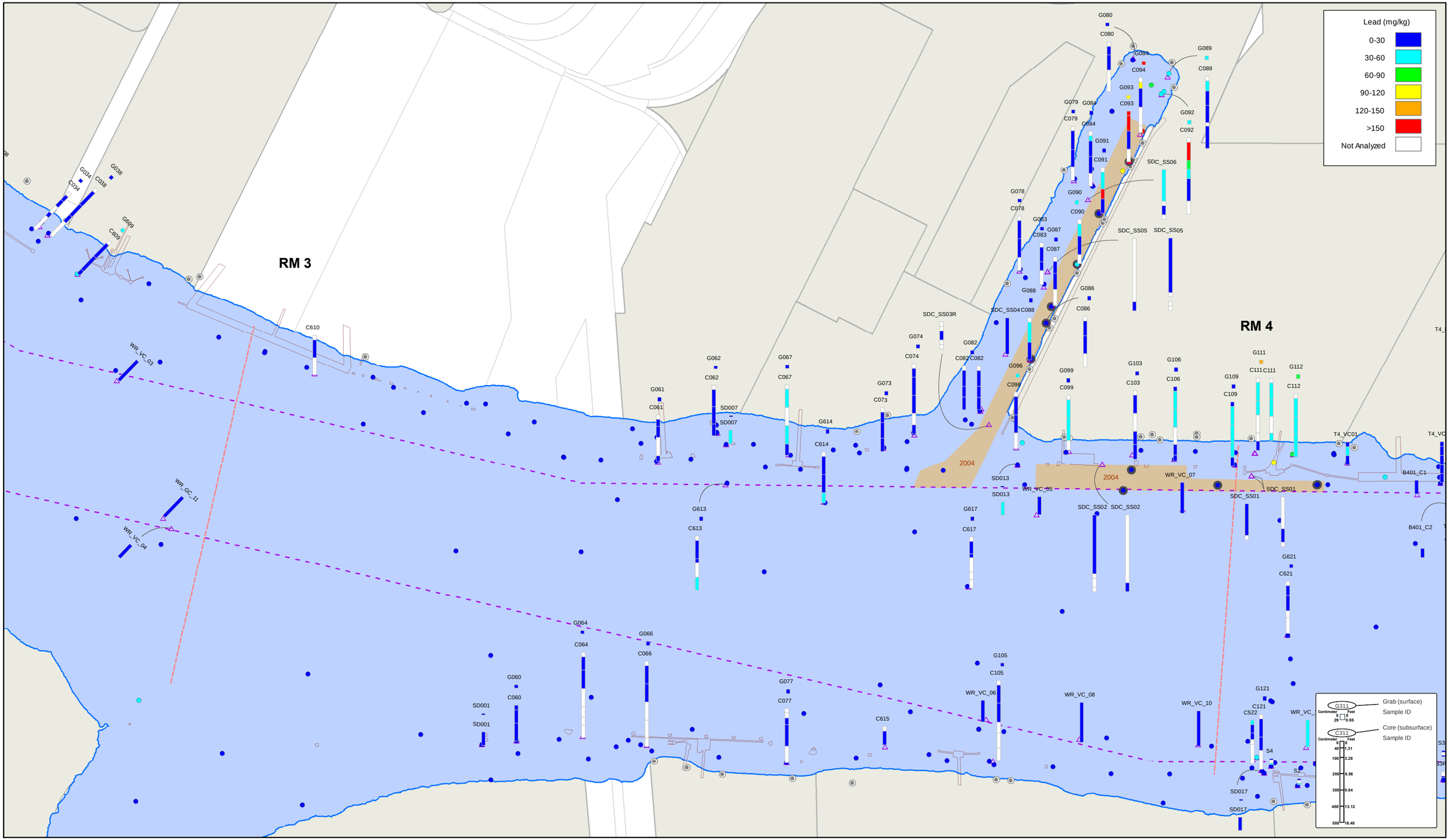
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

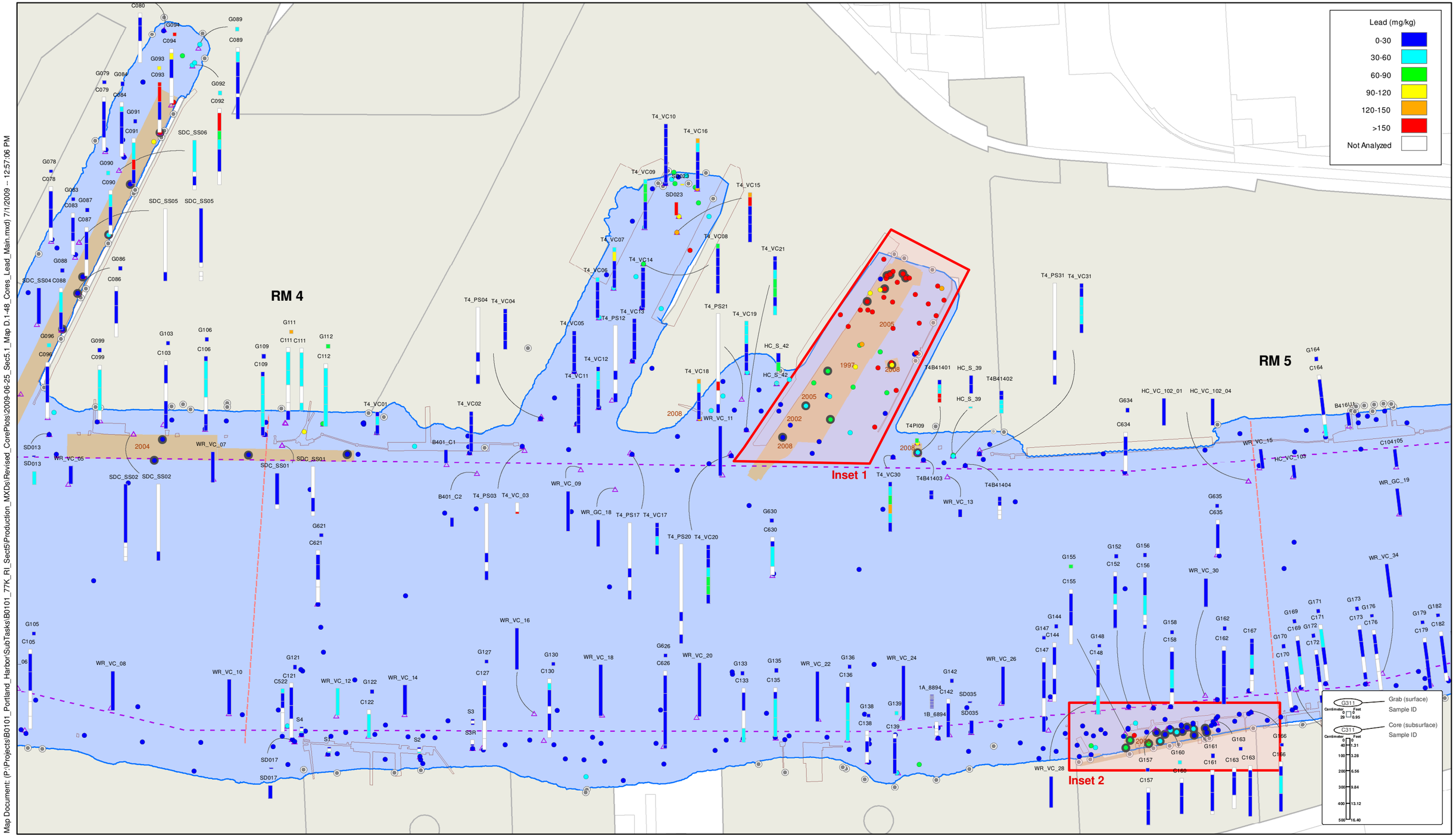
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 03 to 04



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-48_Cores_Lead_Main.mxd) 7/1/2009 -- 12:57:06 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

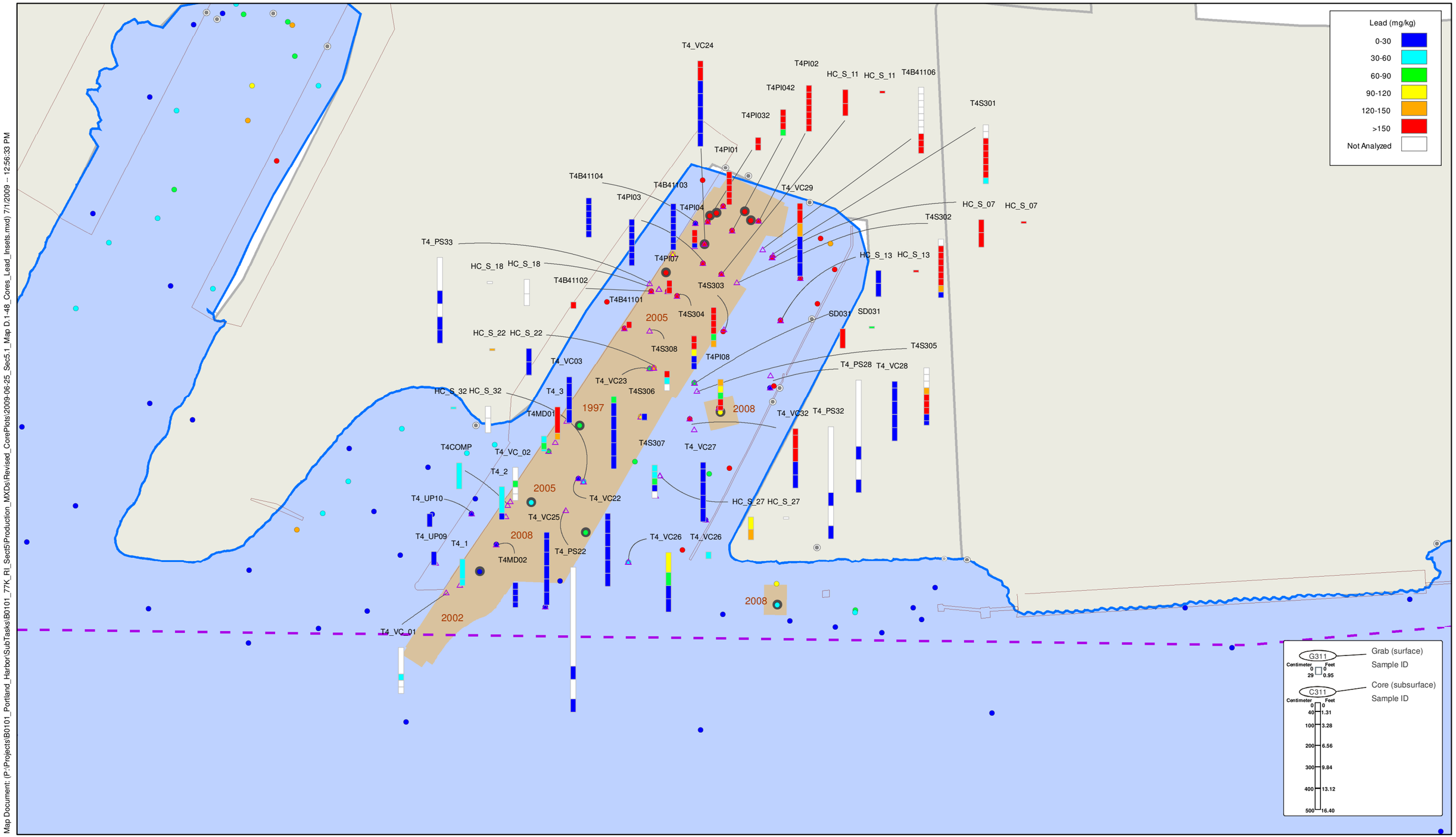
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 04 to 05 - Slips



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-48_Cores_Lead_Insets.mxd) 7/1/2009 -- 12:56:33 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

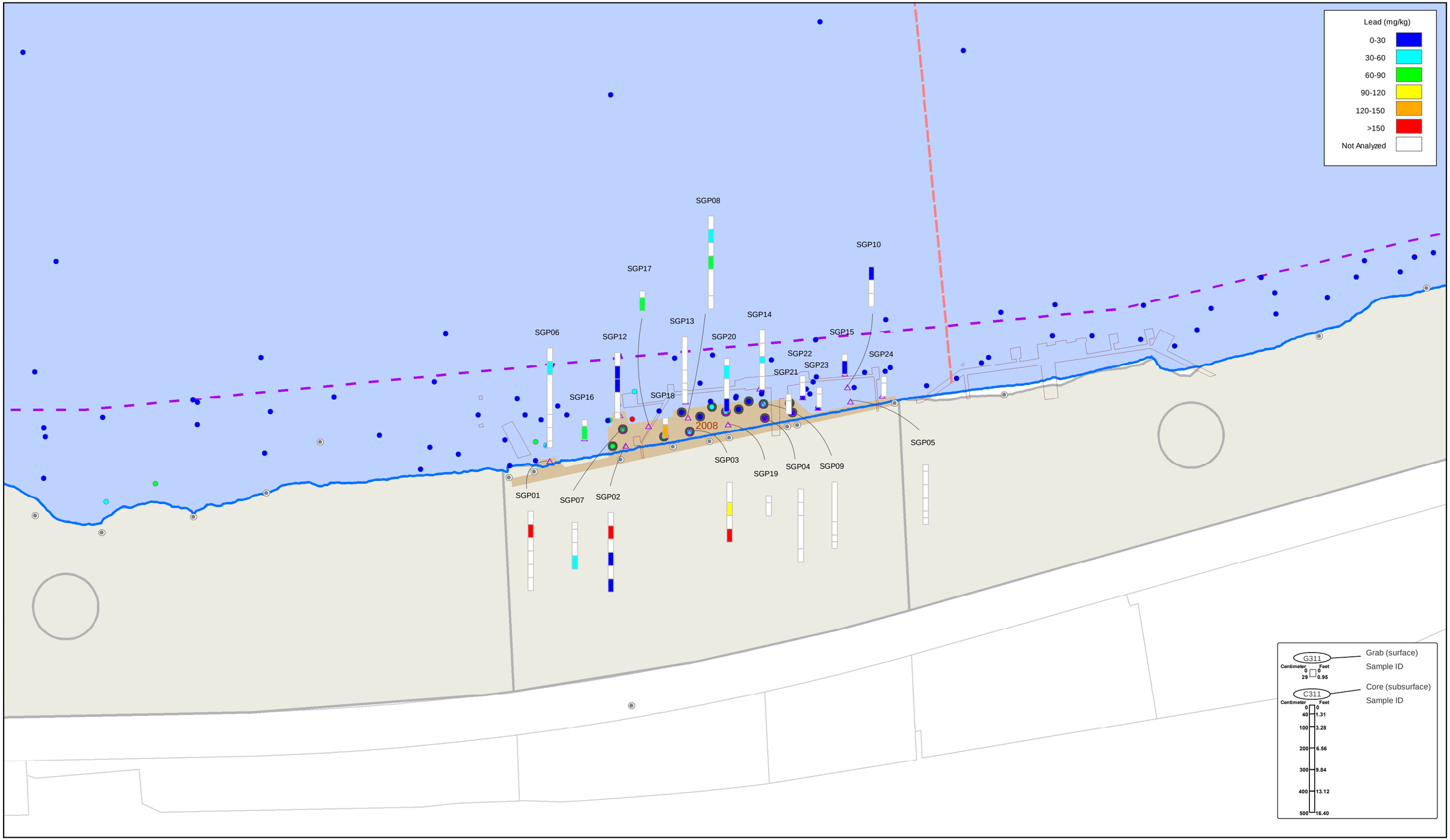
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 04 to 05 - Slips - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Insets.mxd) - 3/12/2009 -- 3:12:50 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

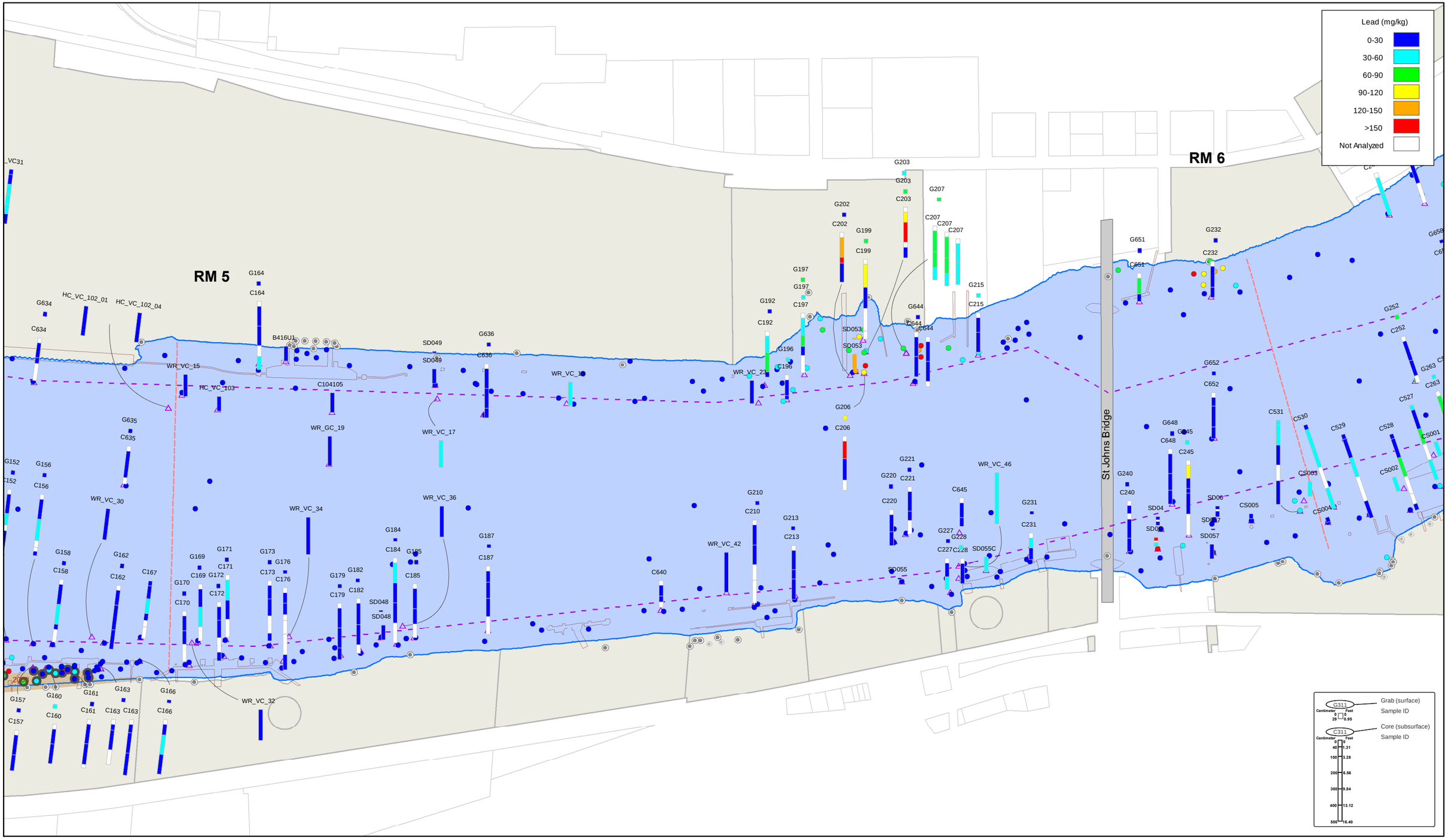
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 04 to 05 - Slips - Inset 2



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Main.mxd) - 3/12/2009 -- 3:11:03 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

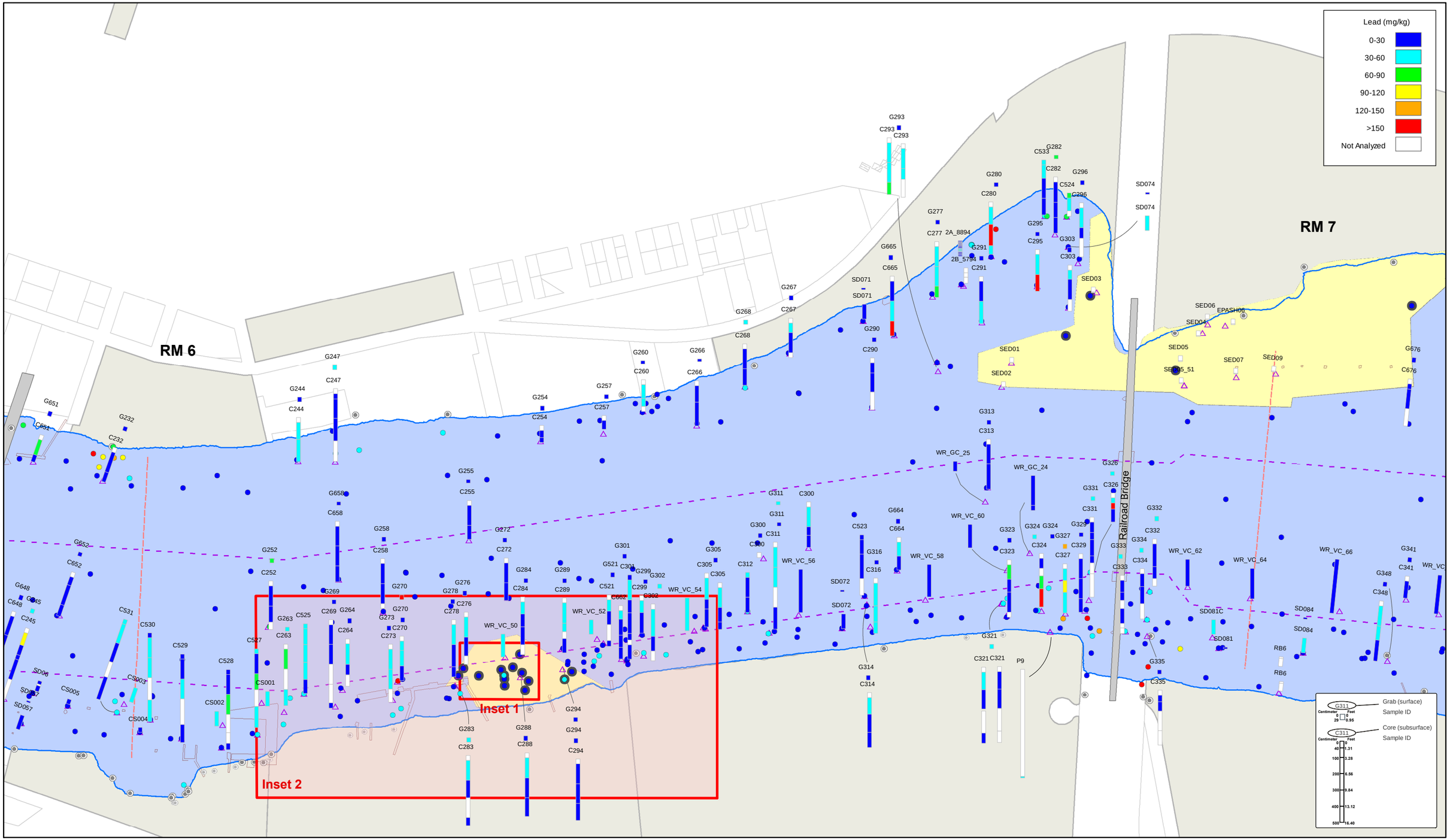
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

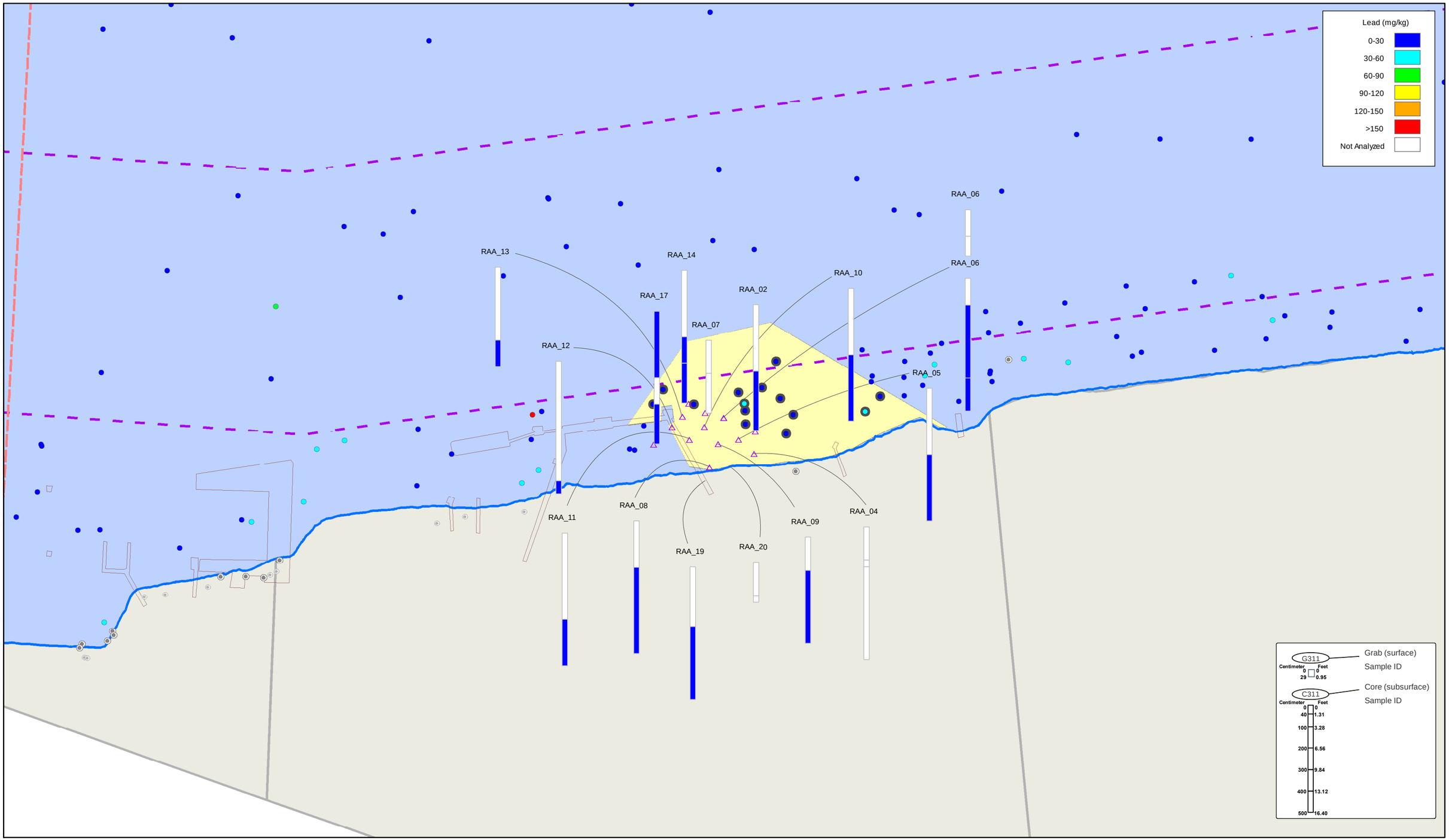
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Insets.mxd) - 3/12/2009 -- 3:12:50 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

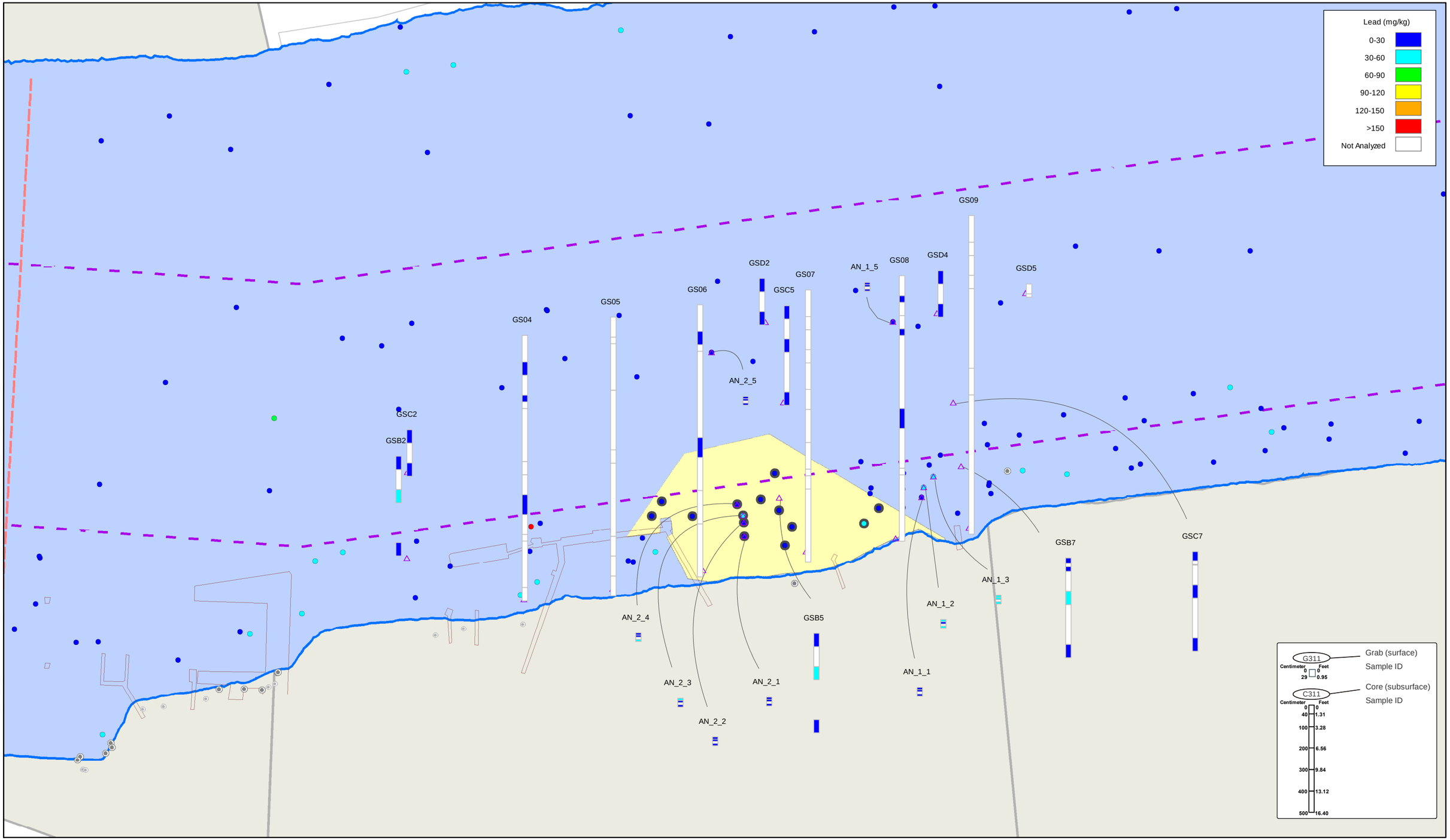
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

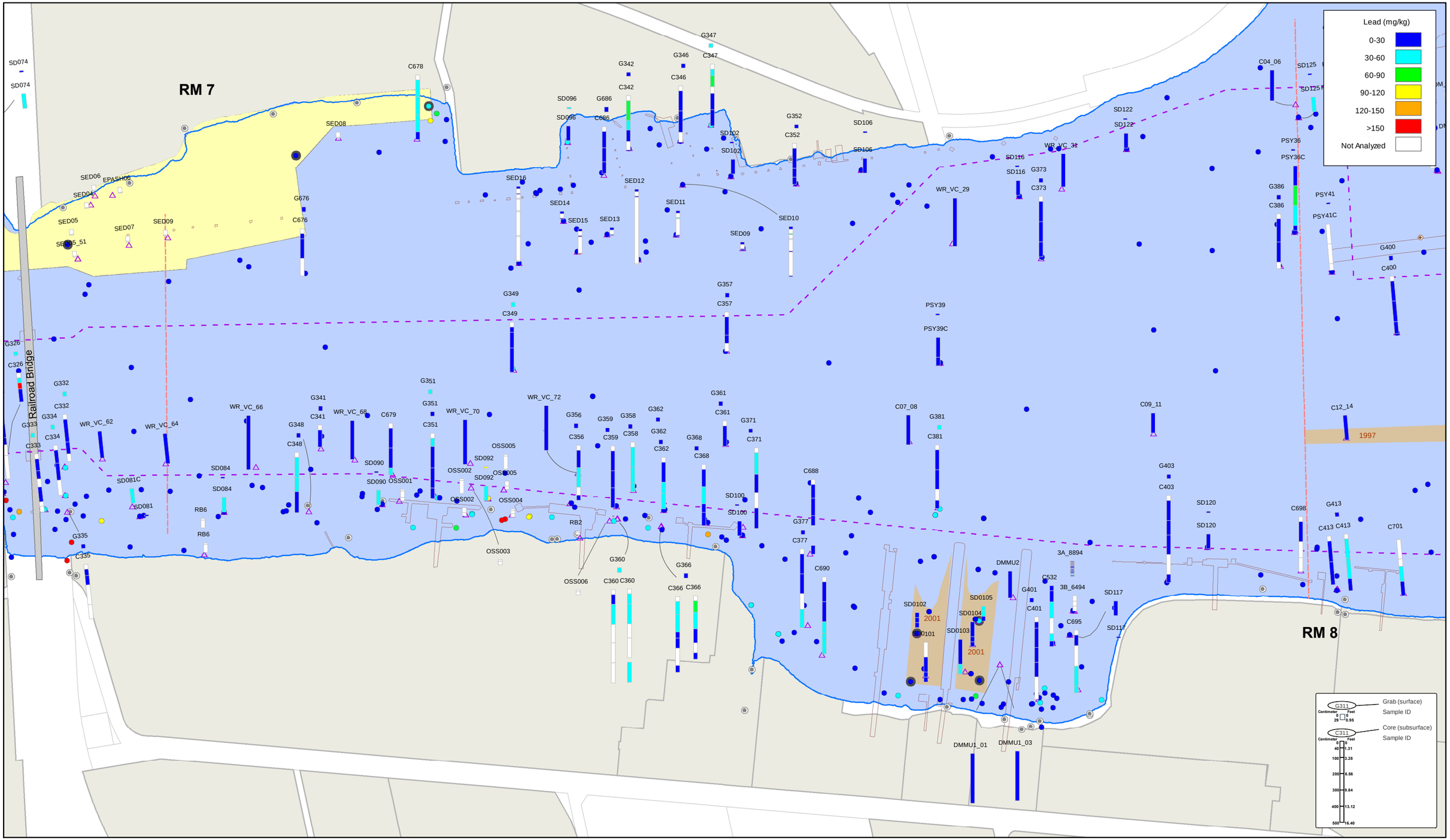
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

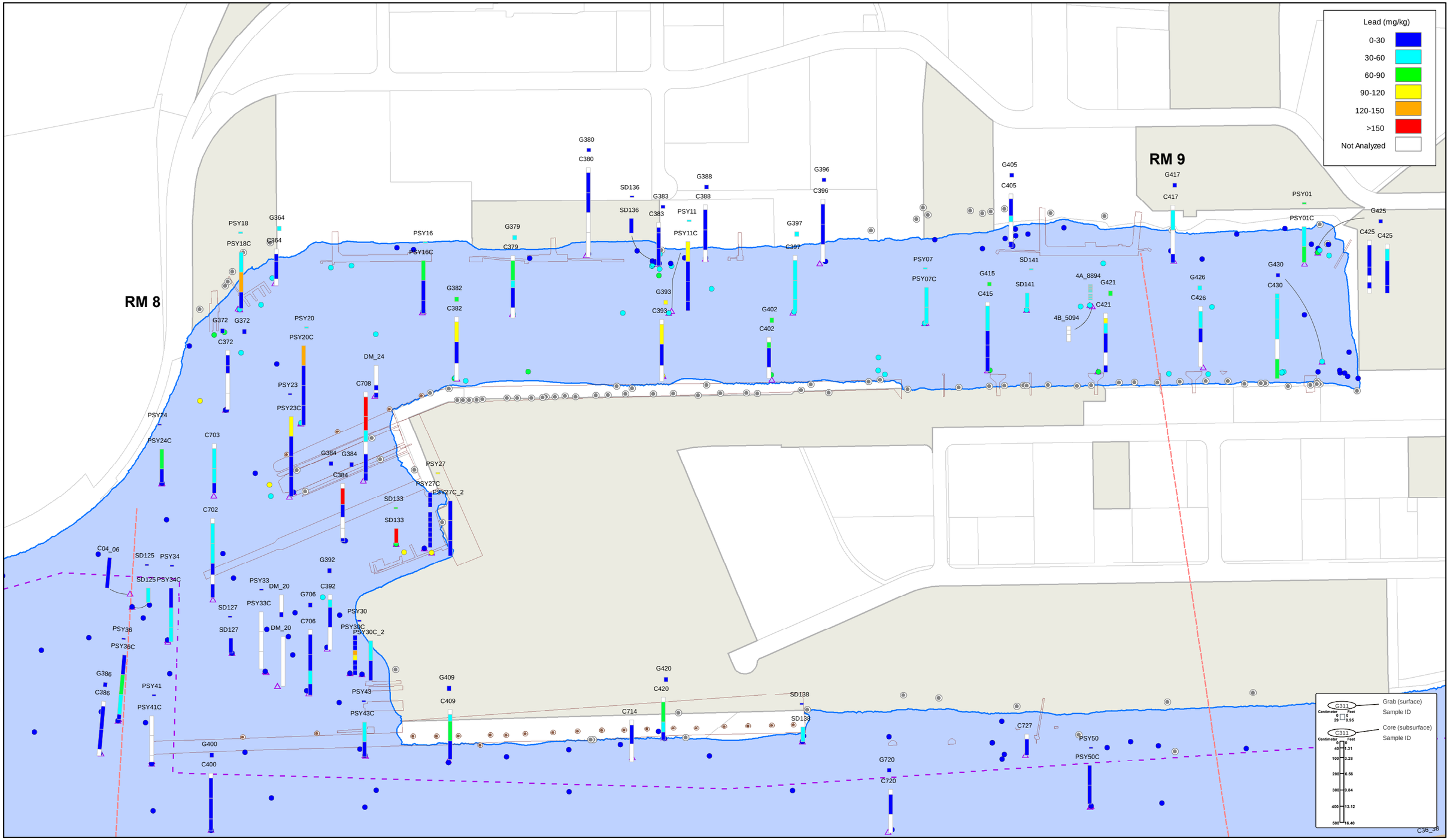
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

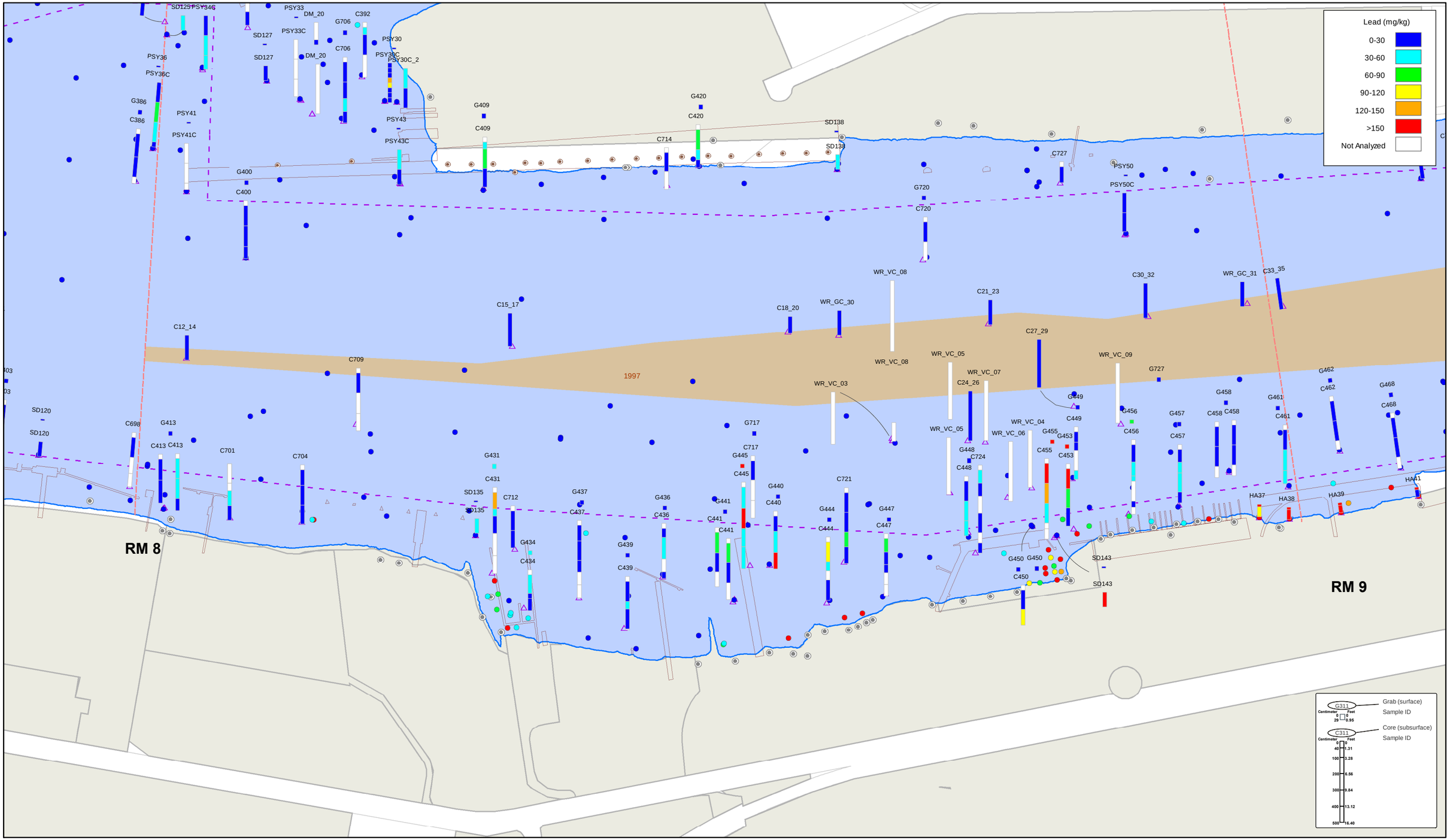
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 08 to 09 - Swan Is. East



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-49_Cores_Lead_Main.mxd) - 3/12/2009 -- 3:11:03 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

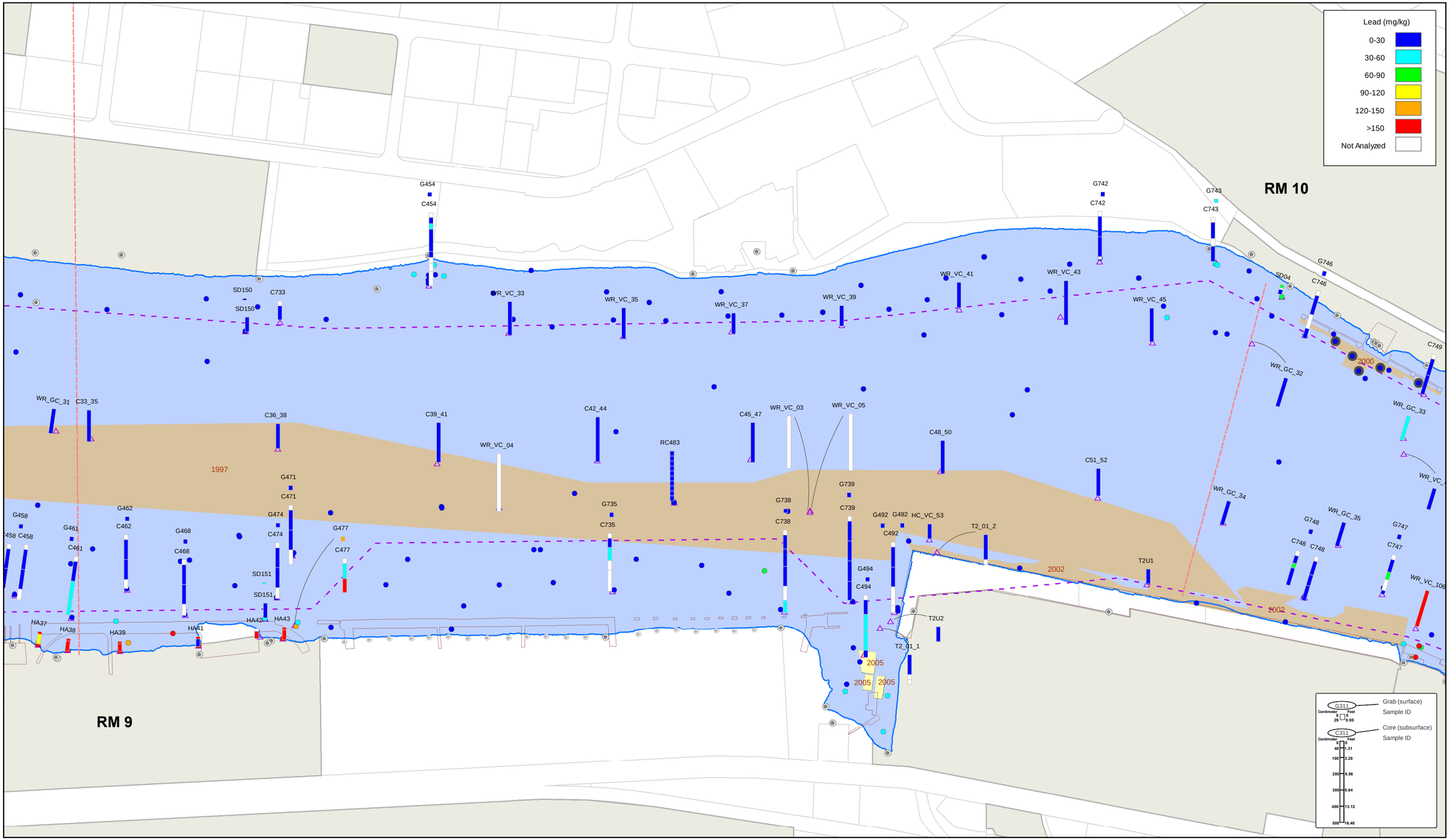
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 08 to 09 - Swan Is. West



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N

0 150 300 450 600 750 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

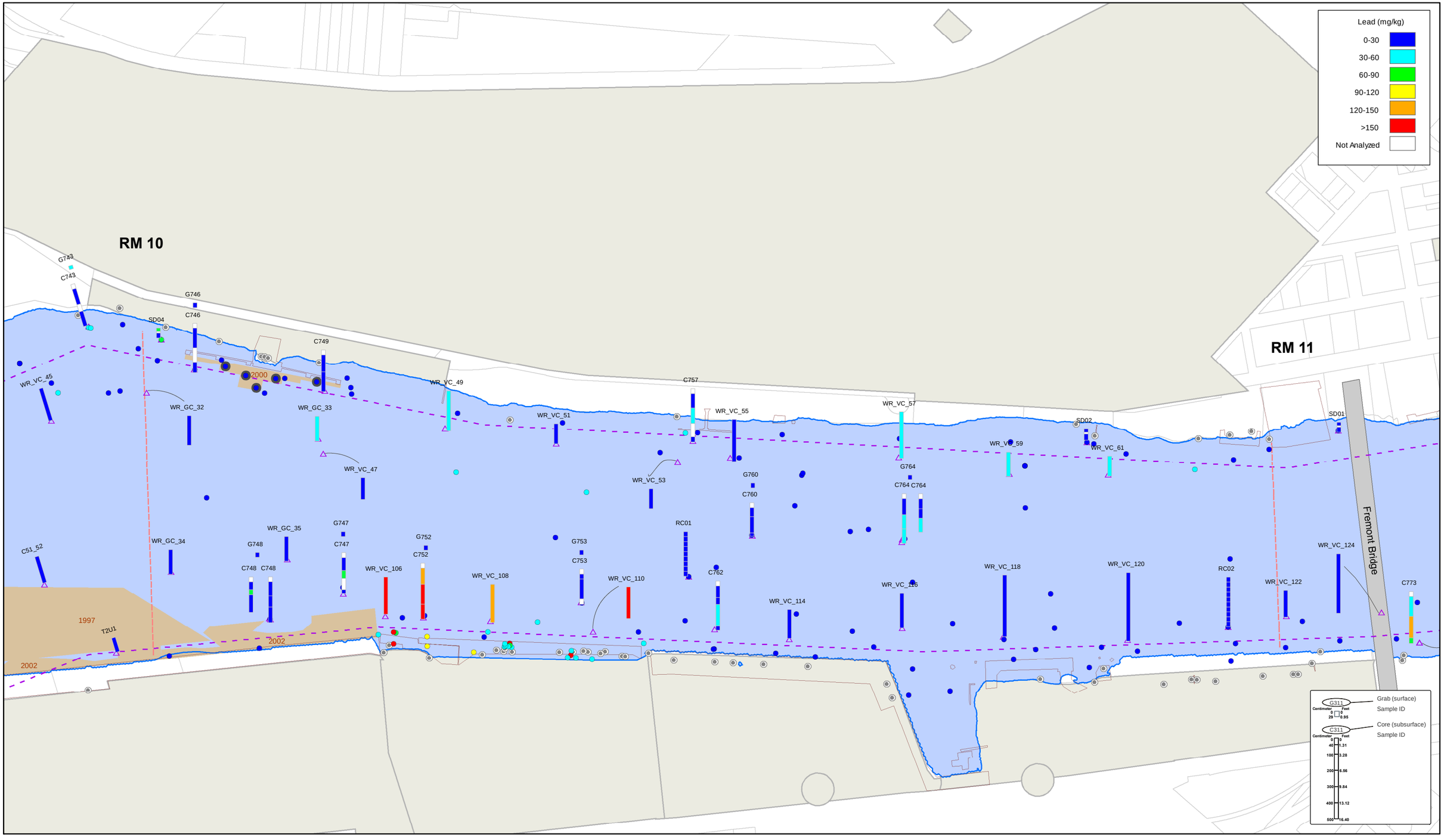
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 09 to 10



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N

0 150 300 450 600 750 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

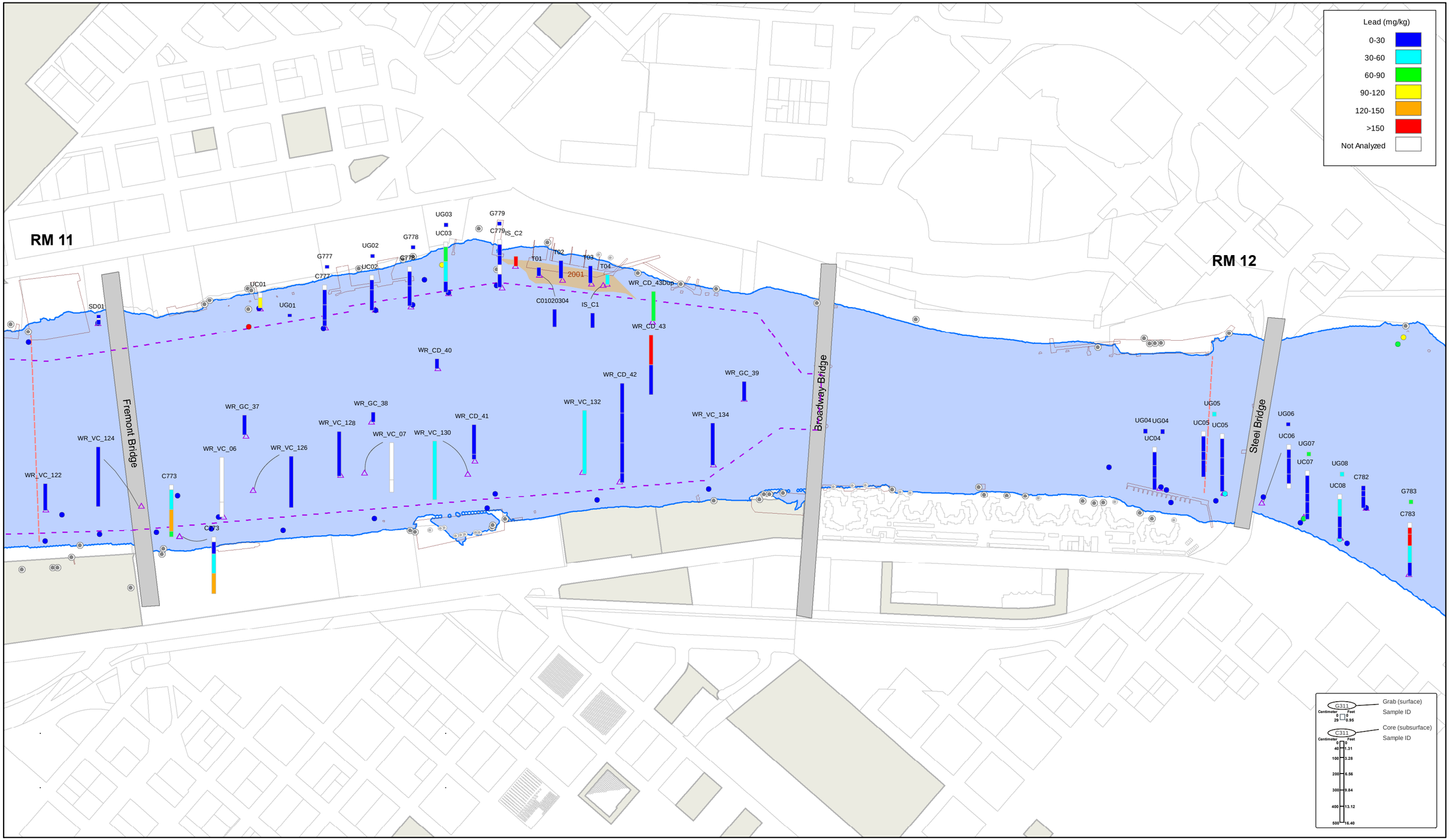
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 10 to 11



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N

0 150 300 450 600 750 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

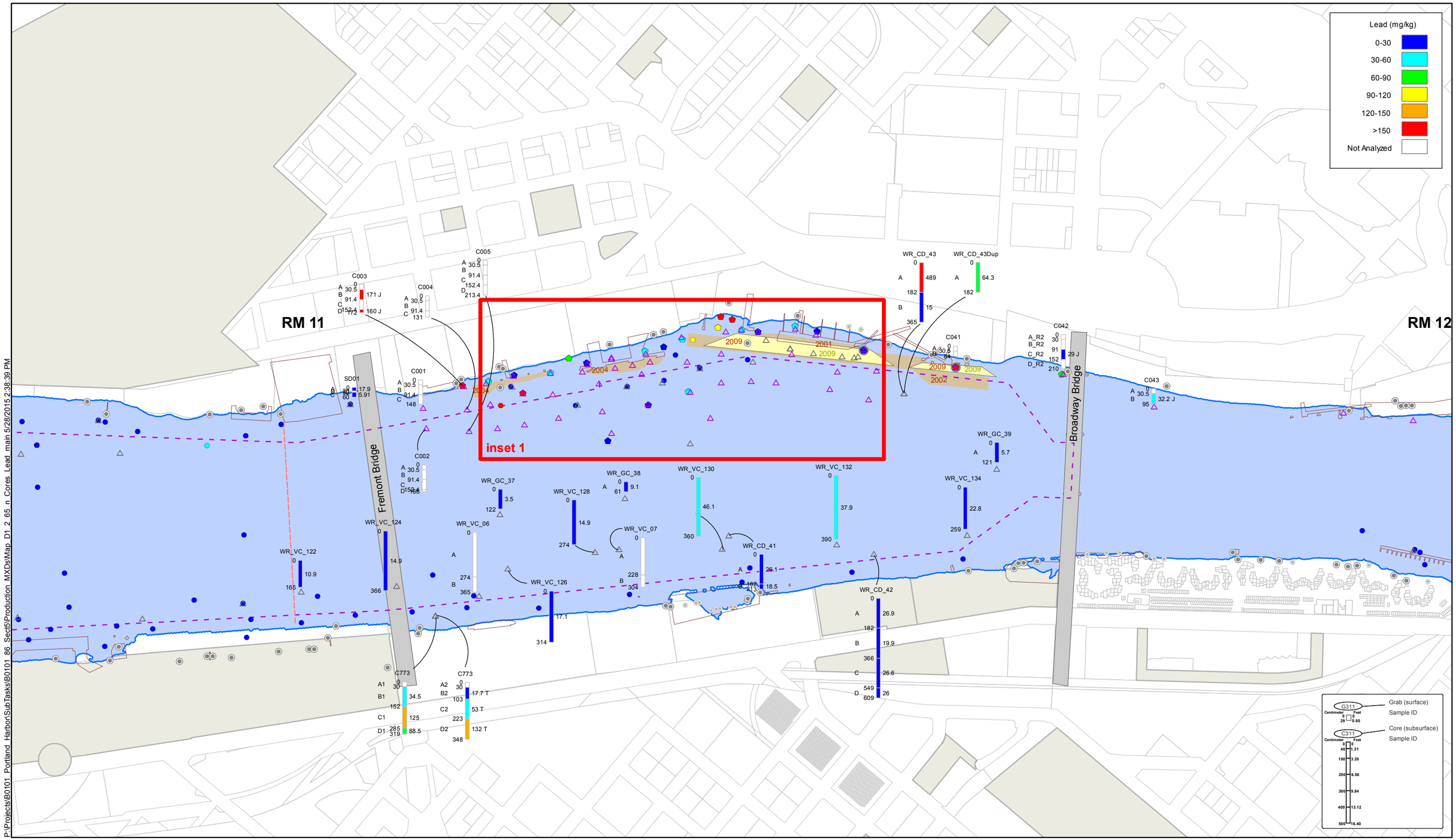
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 11.0 - 11.8

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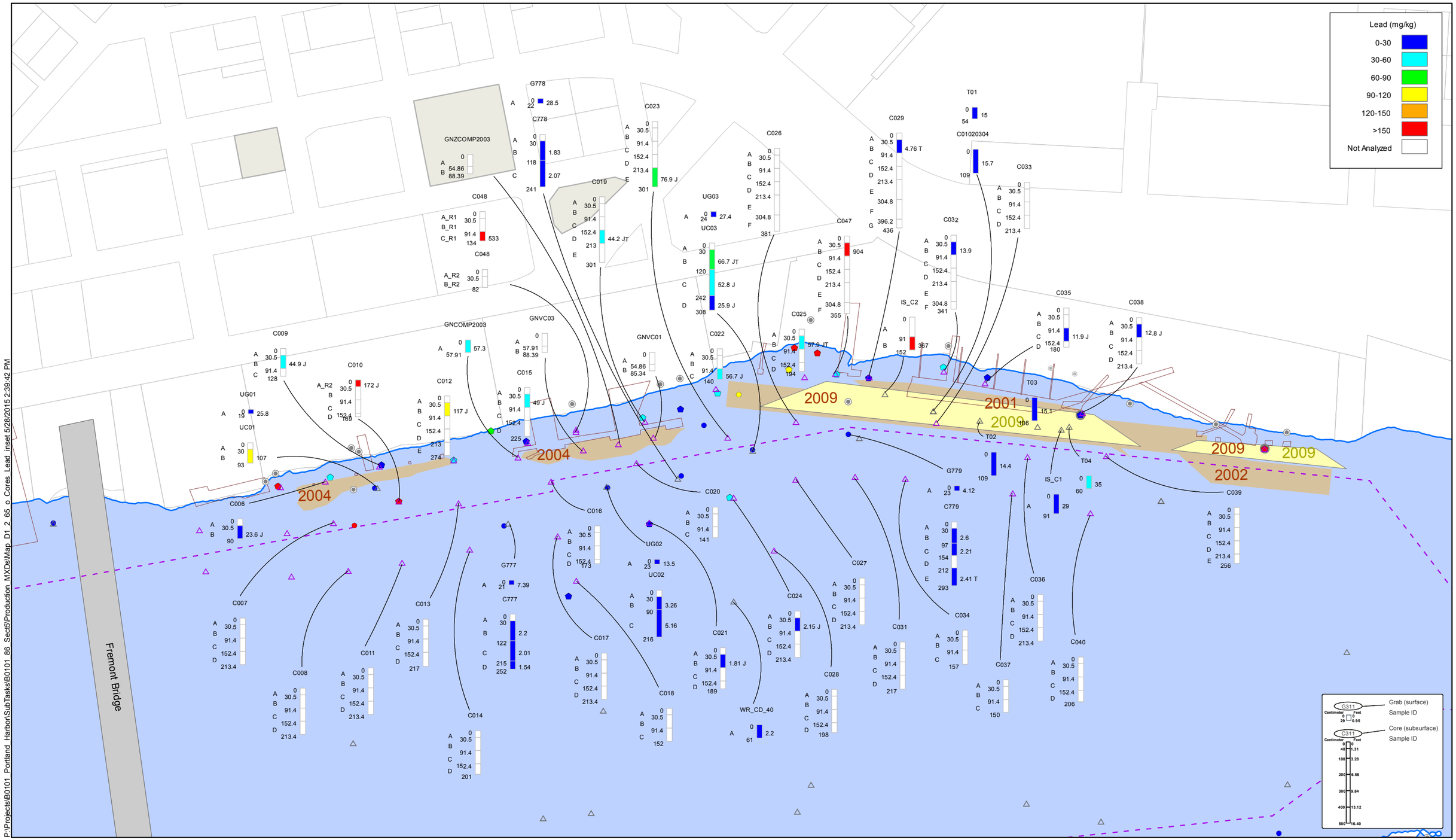

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

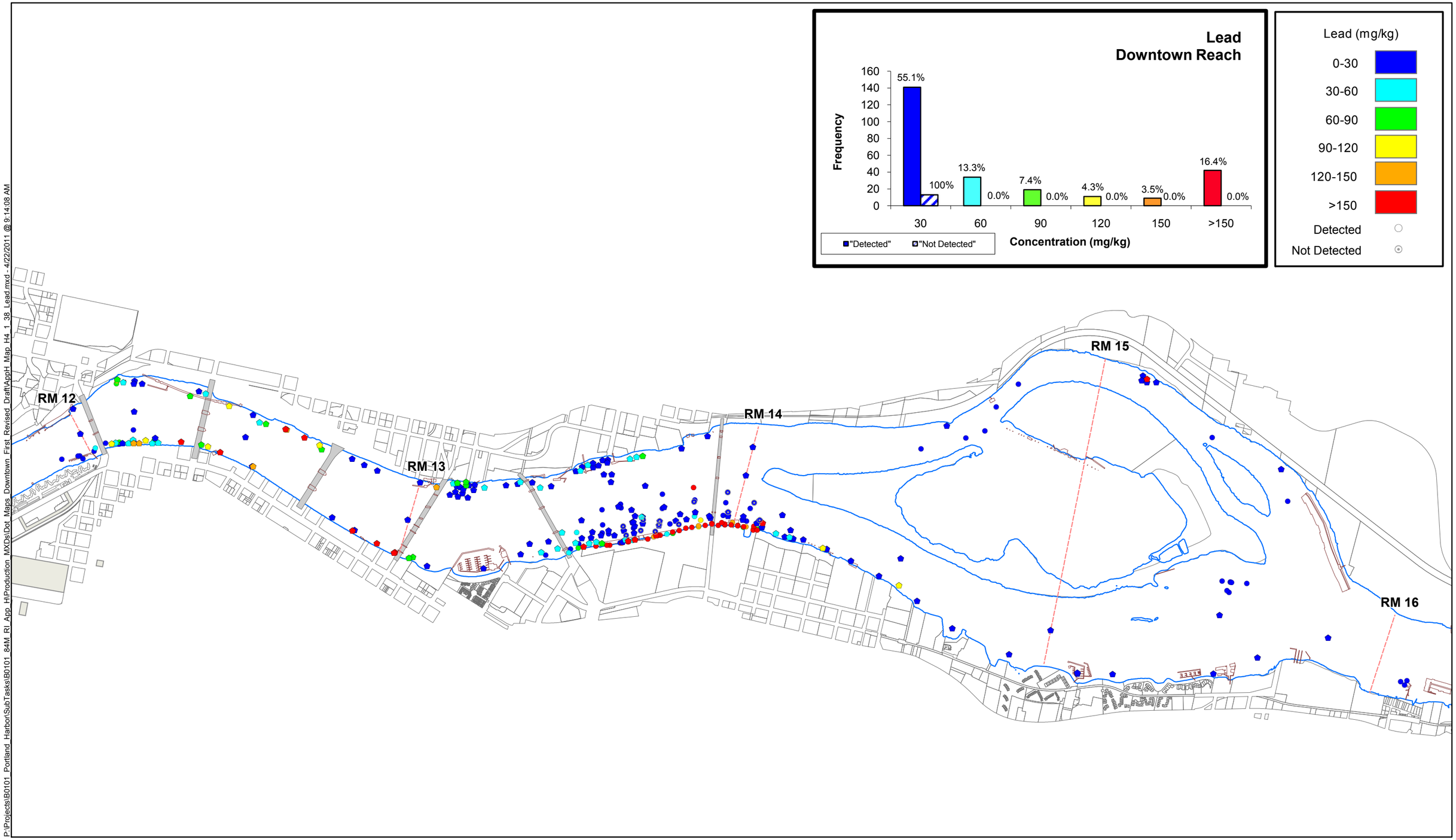
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-65o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Lead (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



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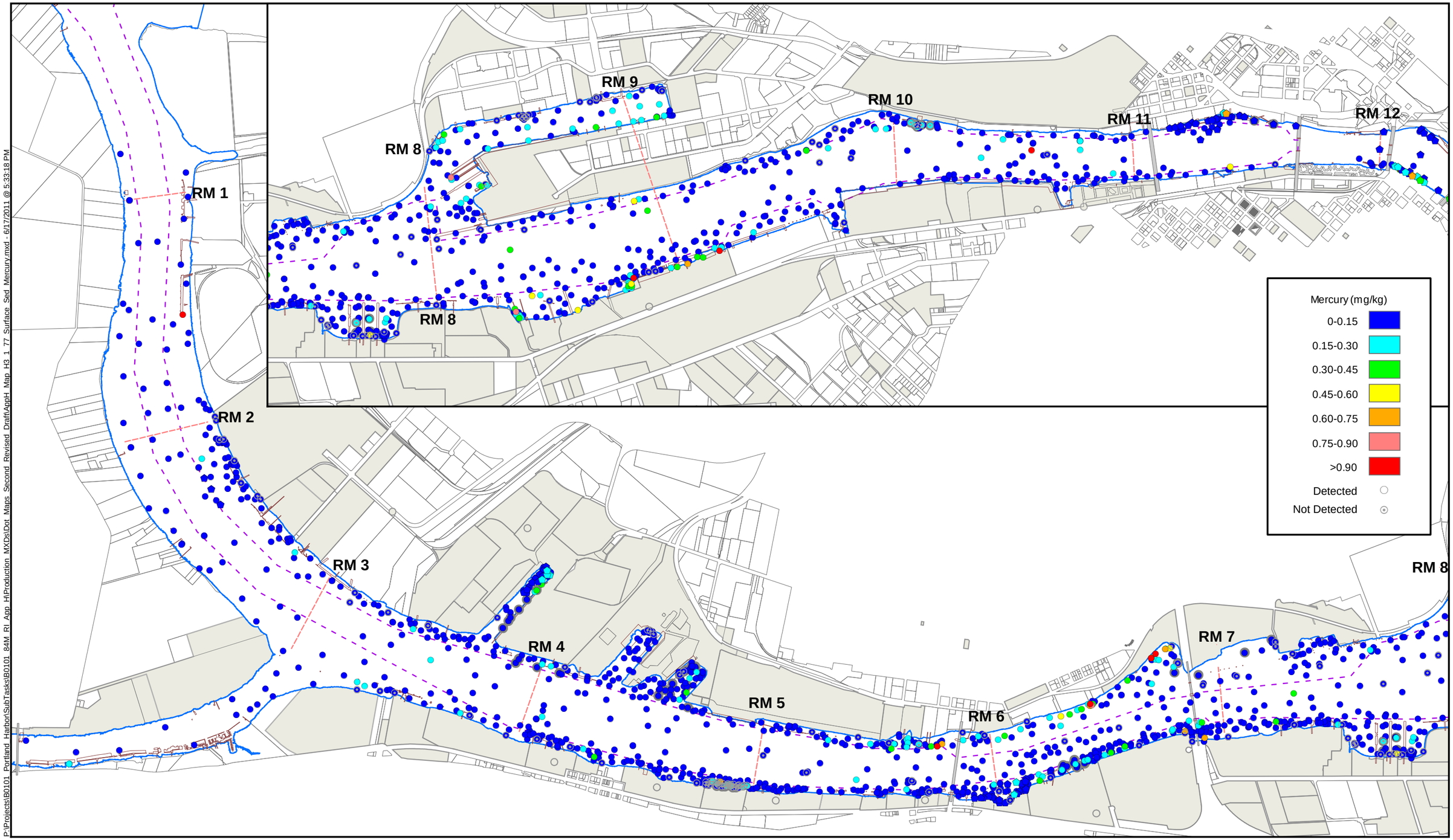
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-66
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Lead (mg/kg)
Downtown Reach



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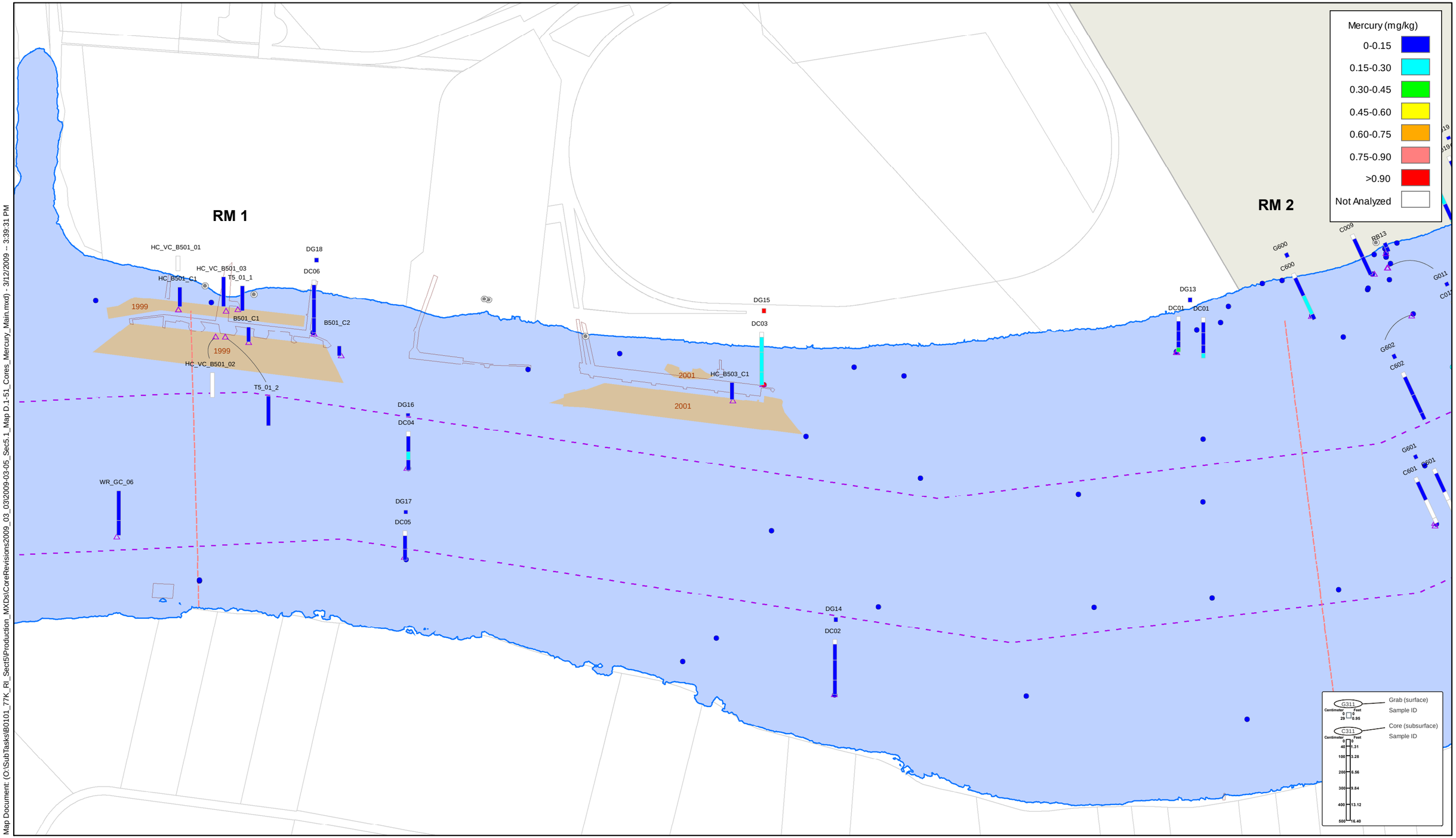
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-67
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Mercury (mg/kg)



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-51_Cores_Mercury_Main.mxd) - 3/12/2009 -- 3:39:31 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

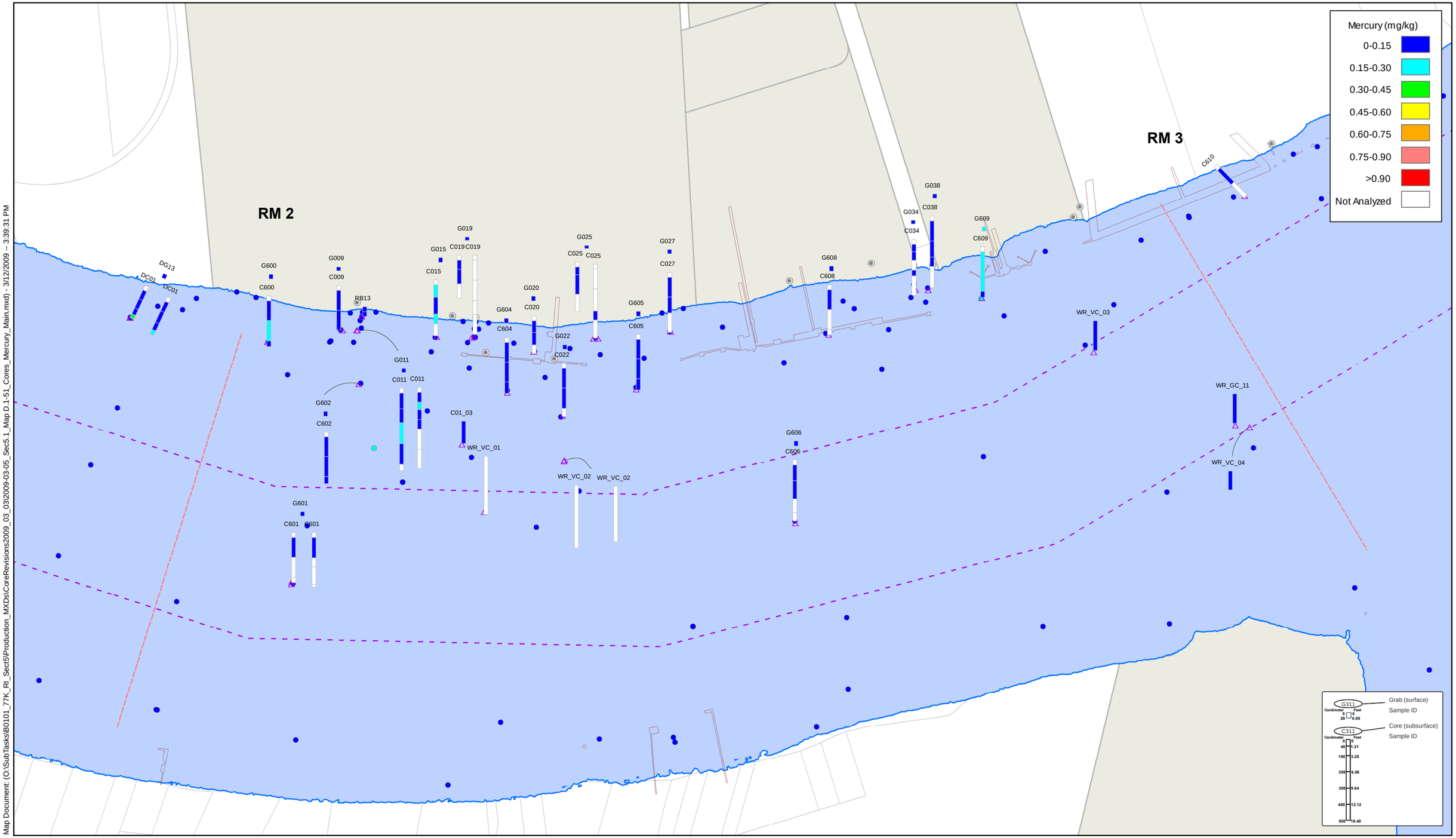
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 01 to 02



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-51_Cores_Mercury_Main.mxd) - 3/12/2009 -- 3:39:31 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

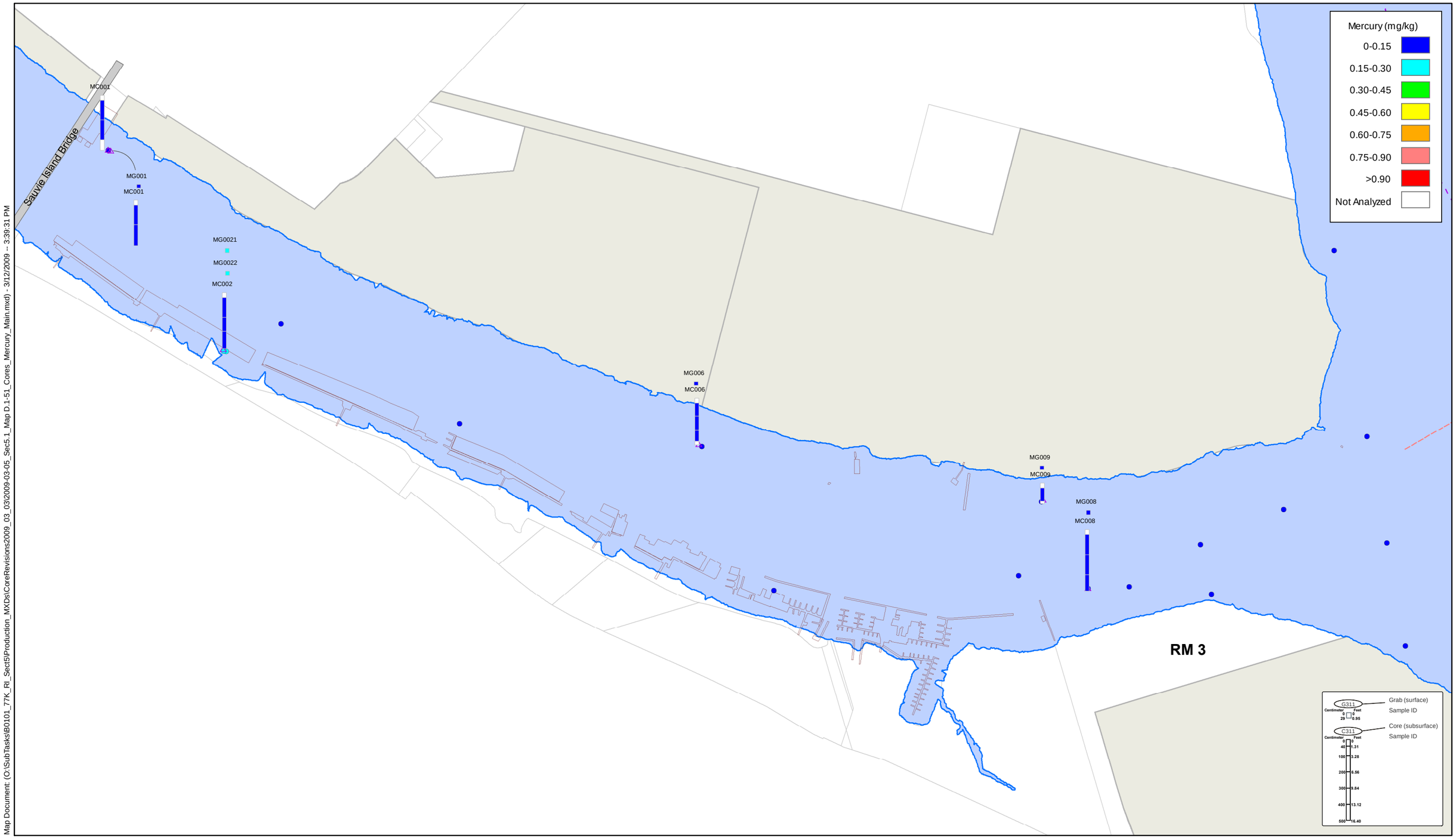
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 02 to 03



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-51_Cores_Mercury_Main.mxd) -- 3/12/2009 -- 3:39:31 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

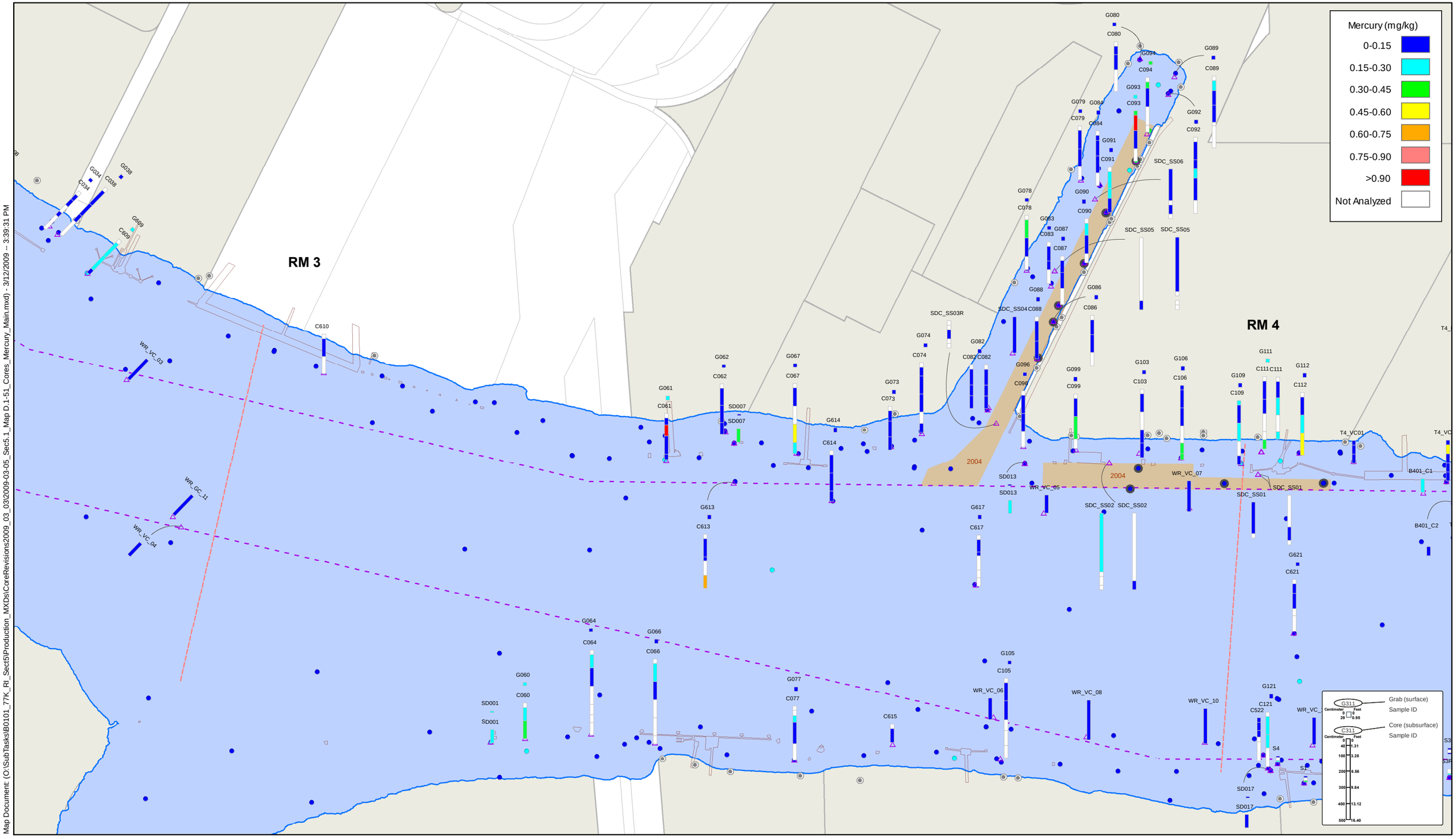
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

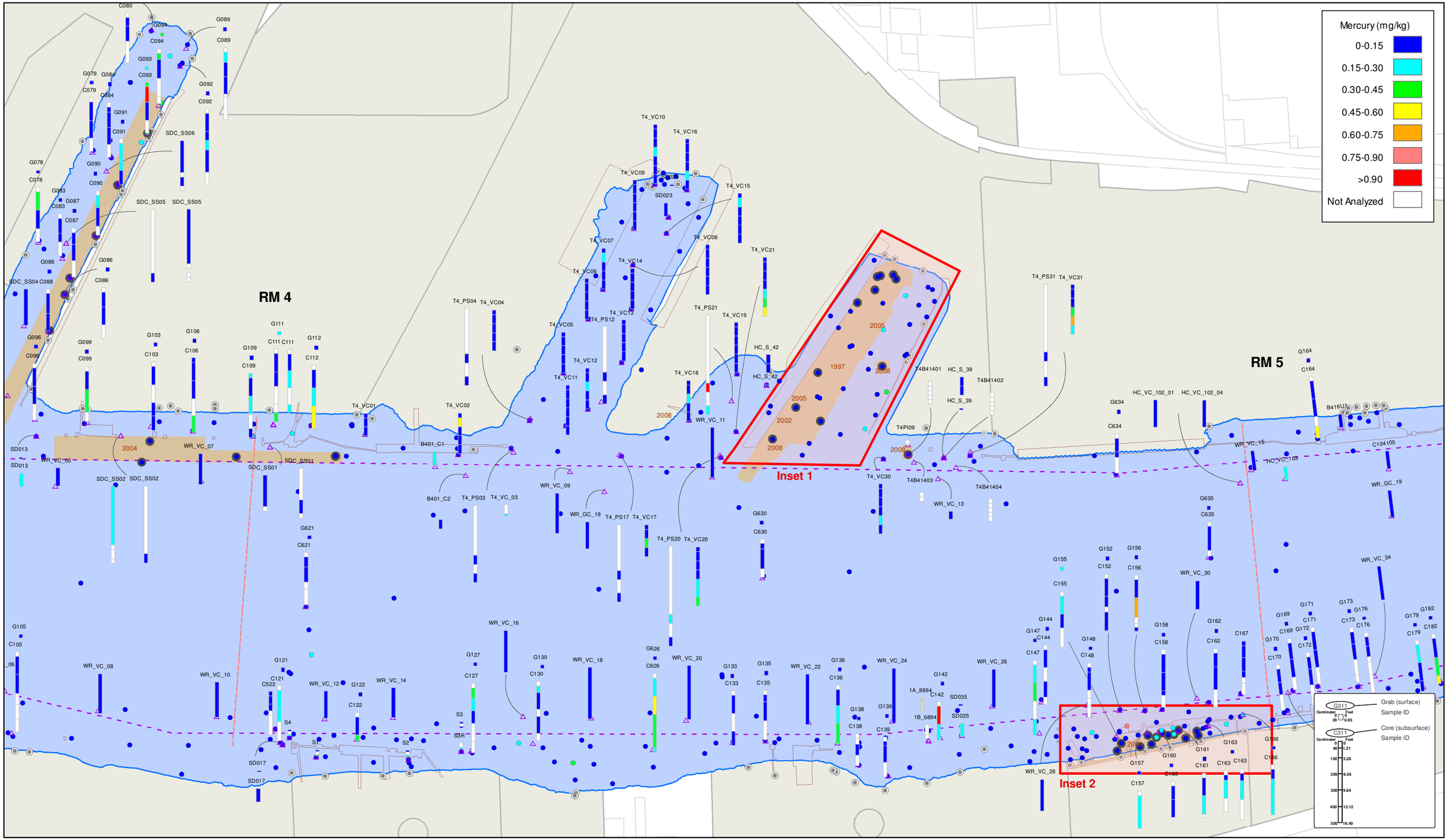
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 03 to 04

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sec45\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-50_Cores_Mercury_Main.mxd) 7/1/2009 -- 1:18:36 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

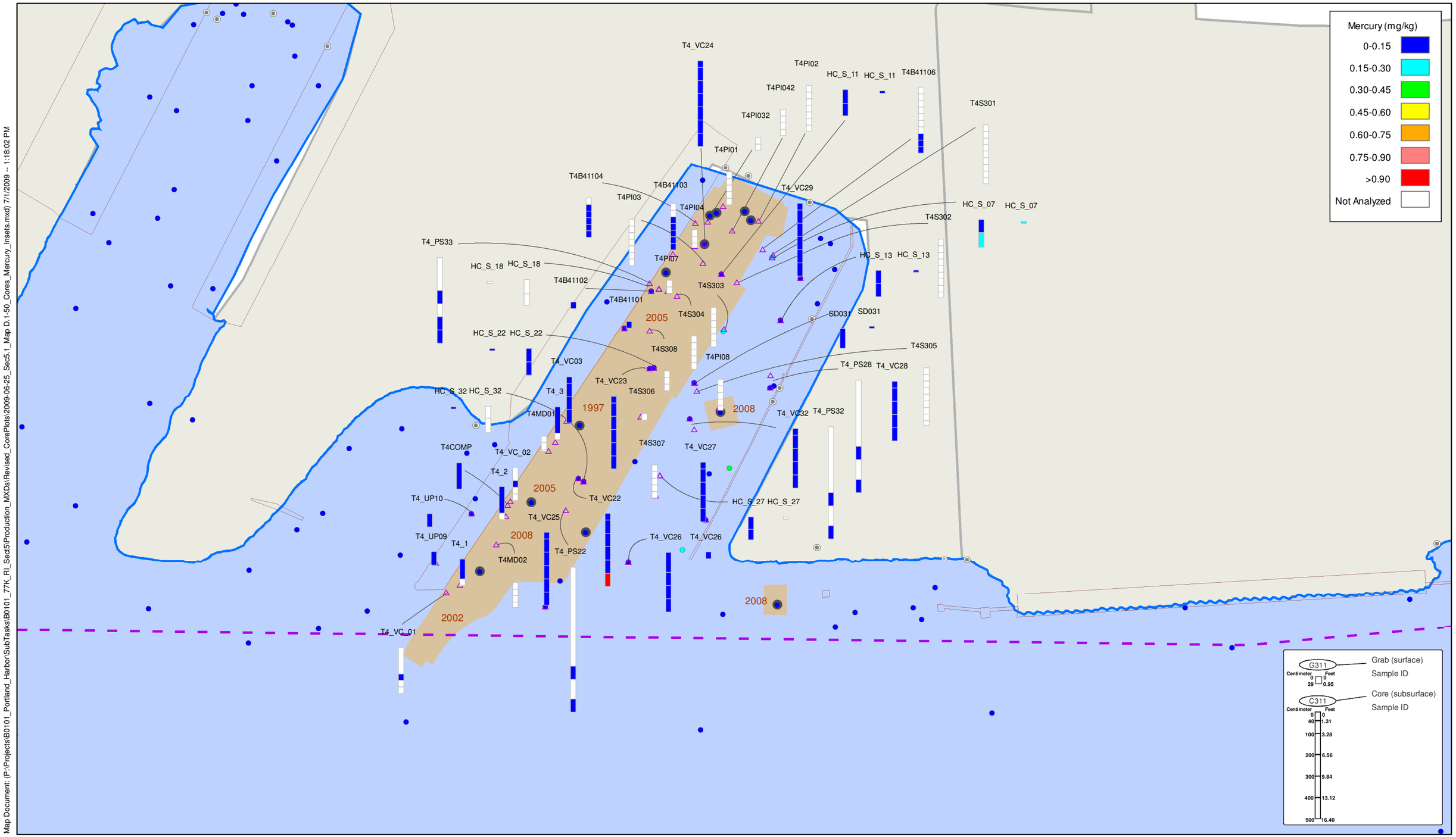
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 04 to 05 - Slips



Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sec5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-50_Cores_Mercury_Insets.mxd) 7/1/2009 -- 1:18:02 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

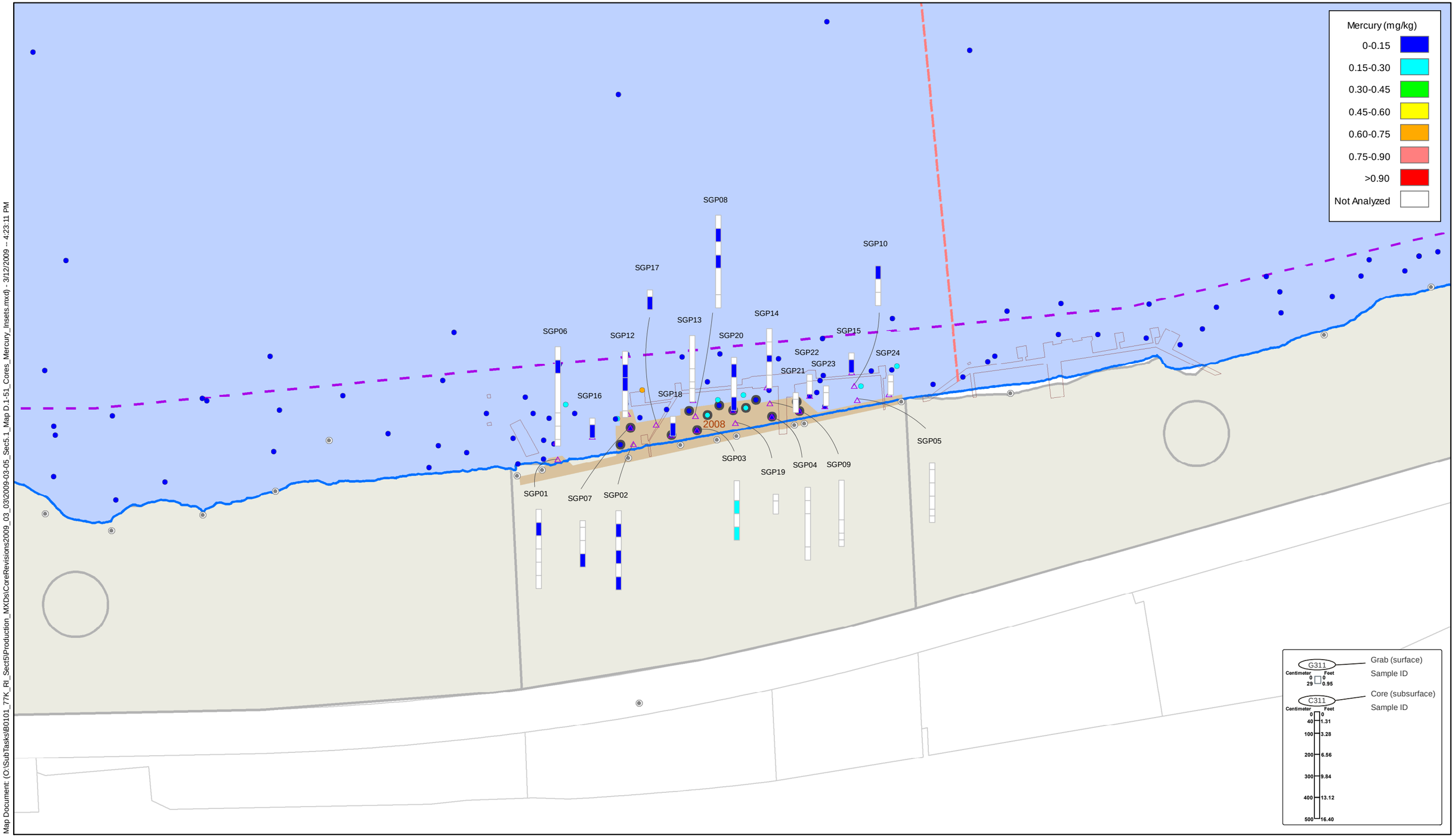
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 04 to 05 - Slips - Inset 1



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-51_Cores_Mercury_Insets.mxd) - 3/12/2009 -- 4:23:11 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

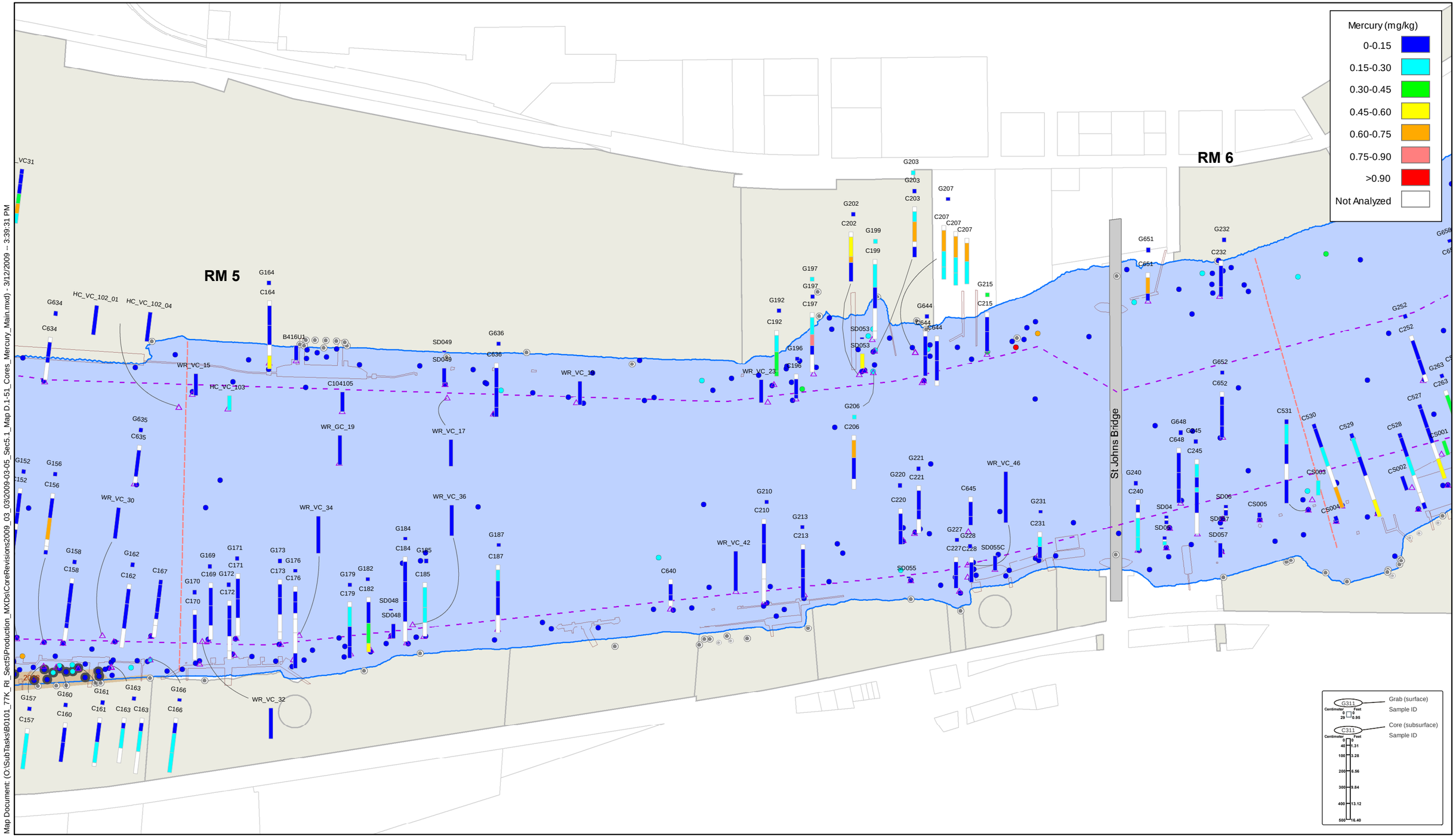
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)
River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

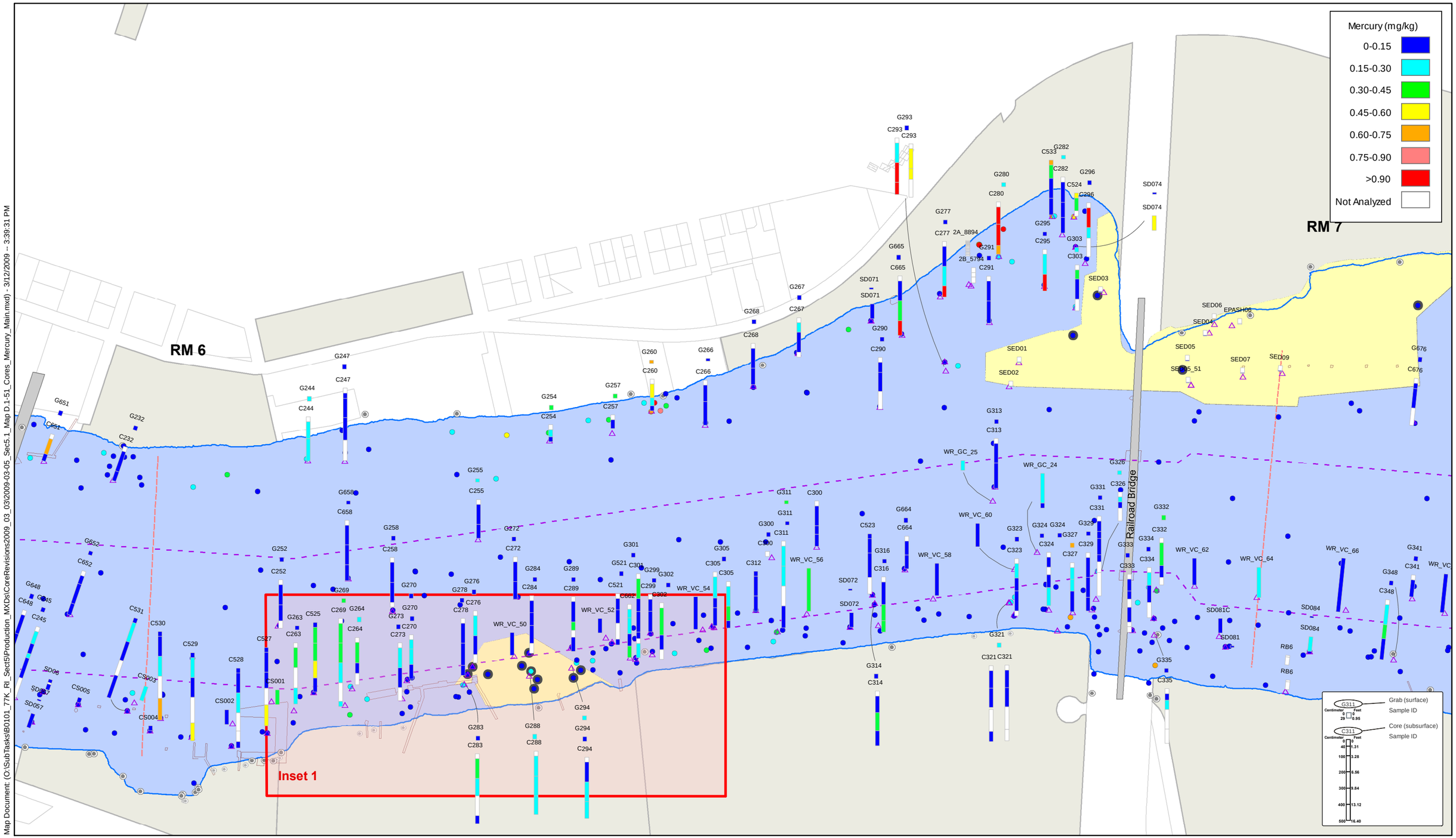
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

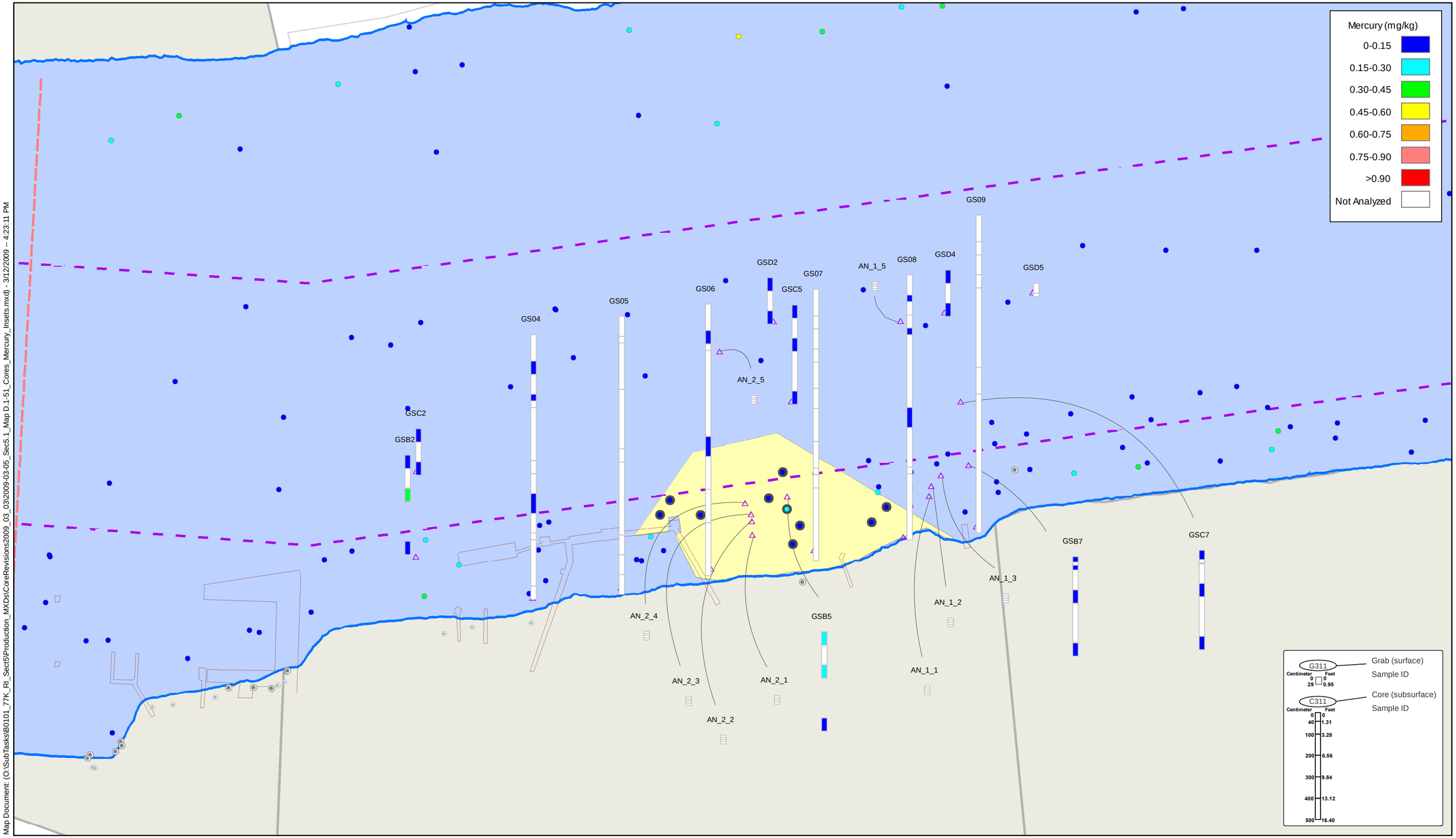
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

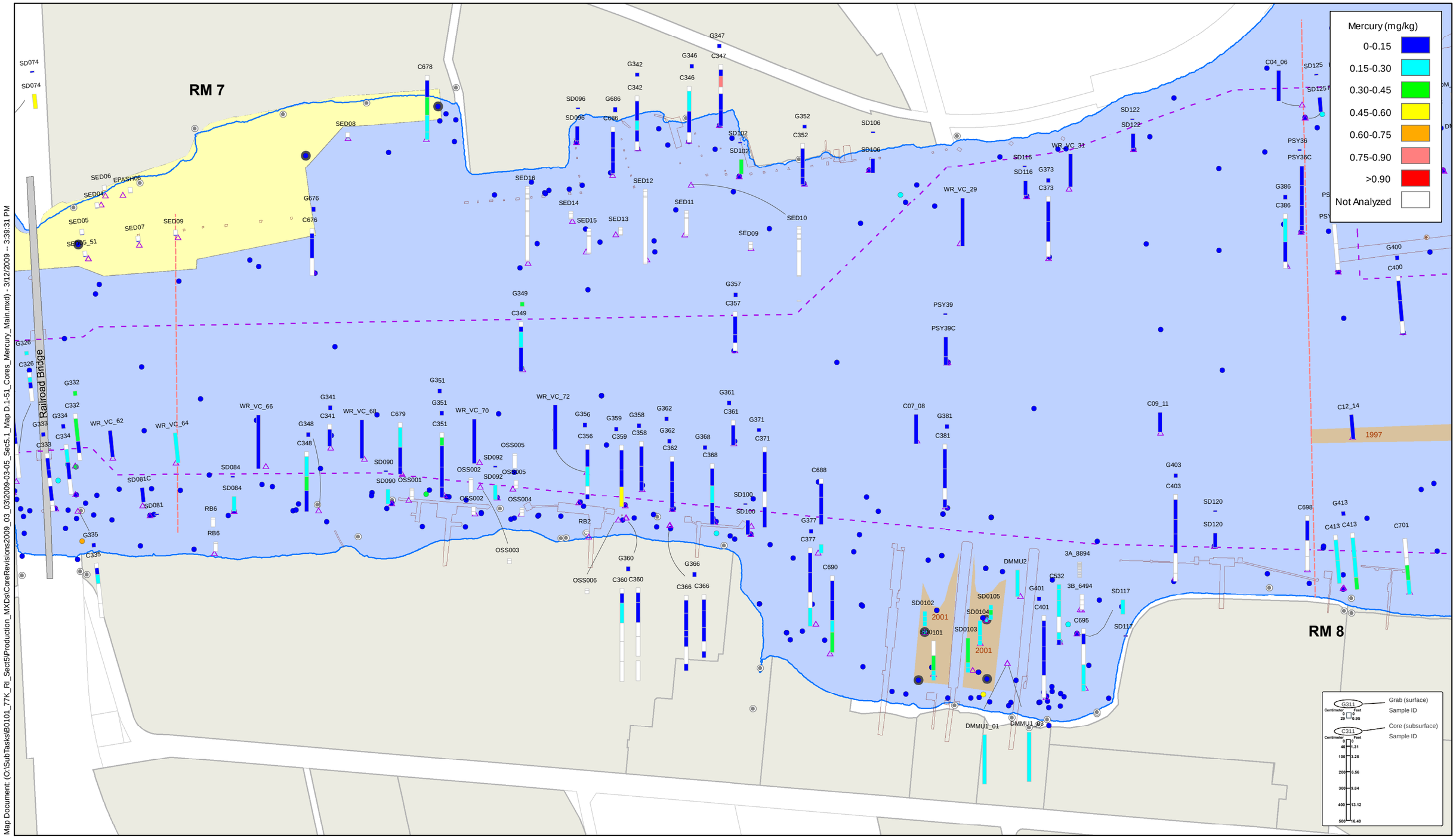
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)
River Mile 06 to 07 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

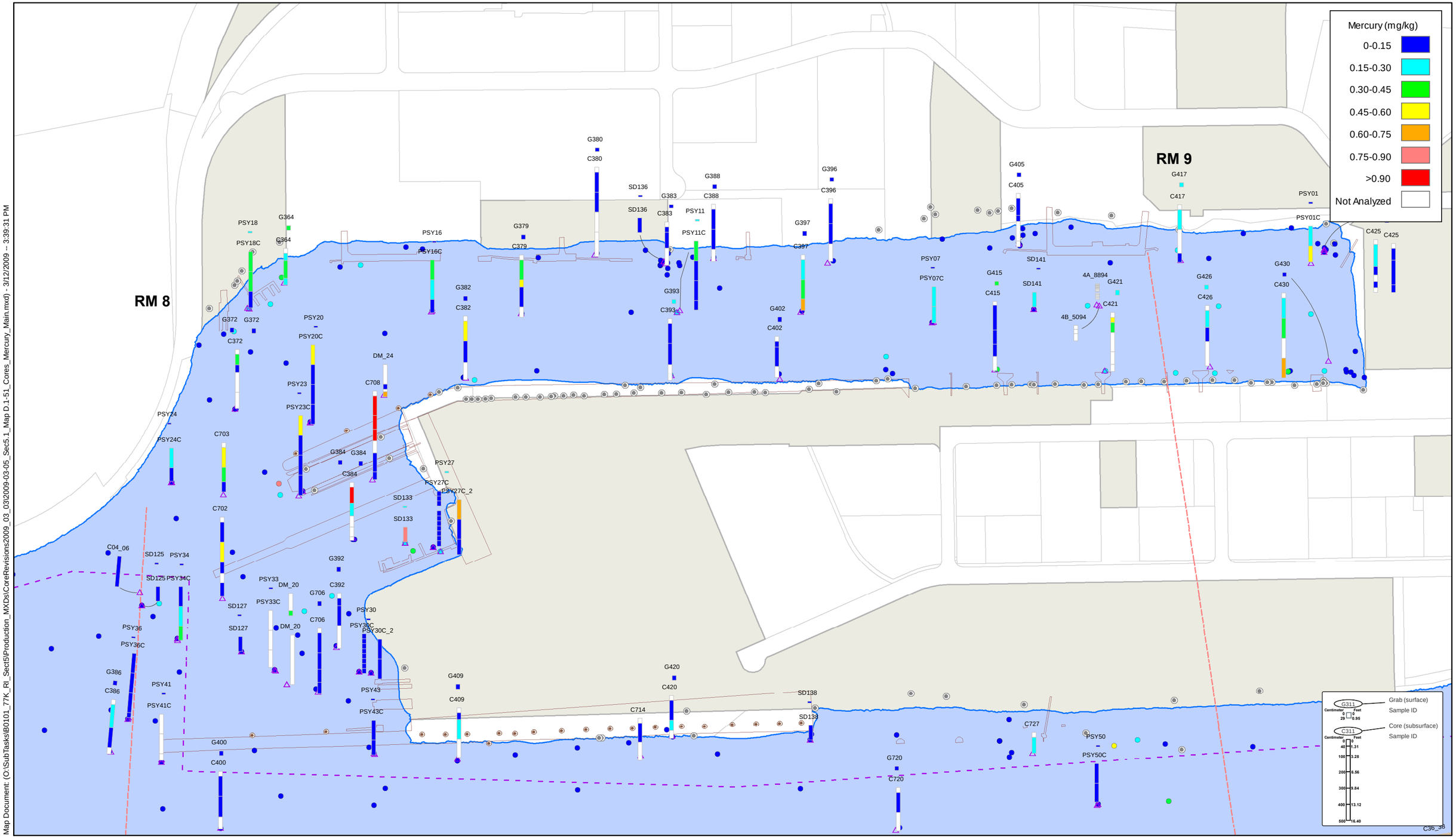
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

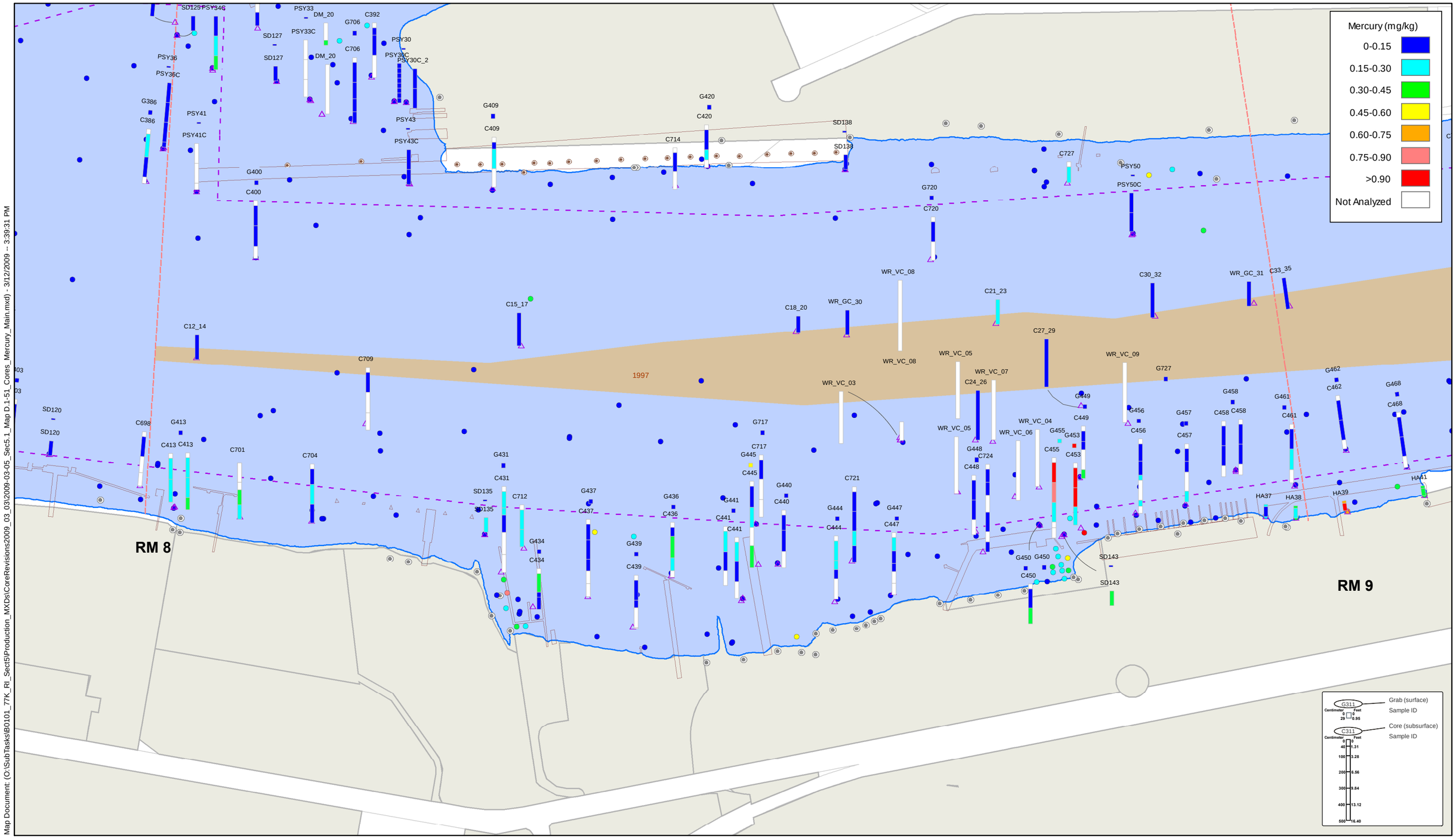
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

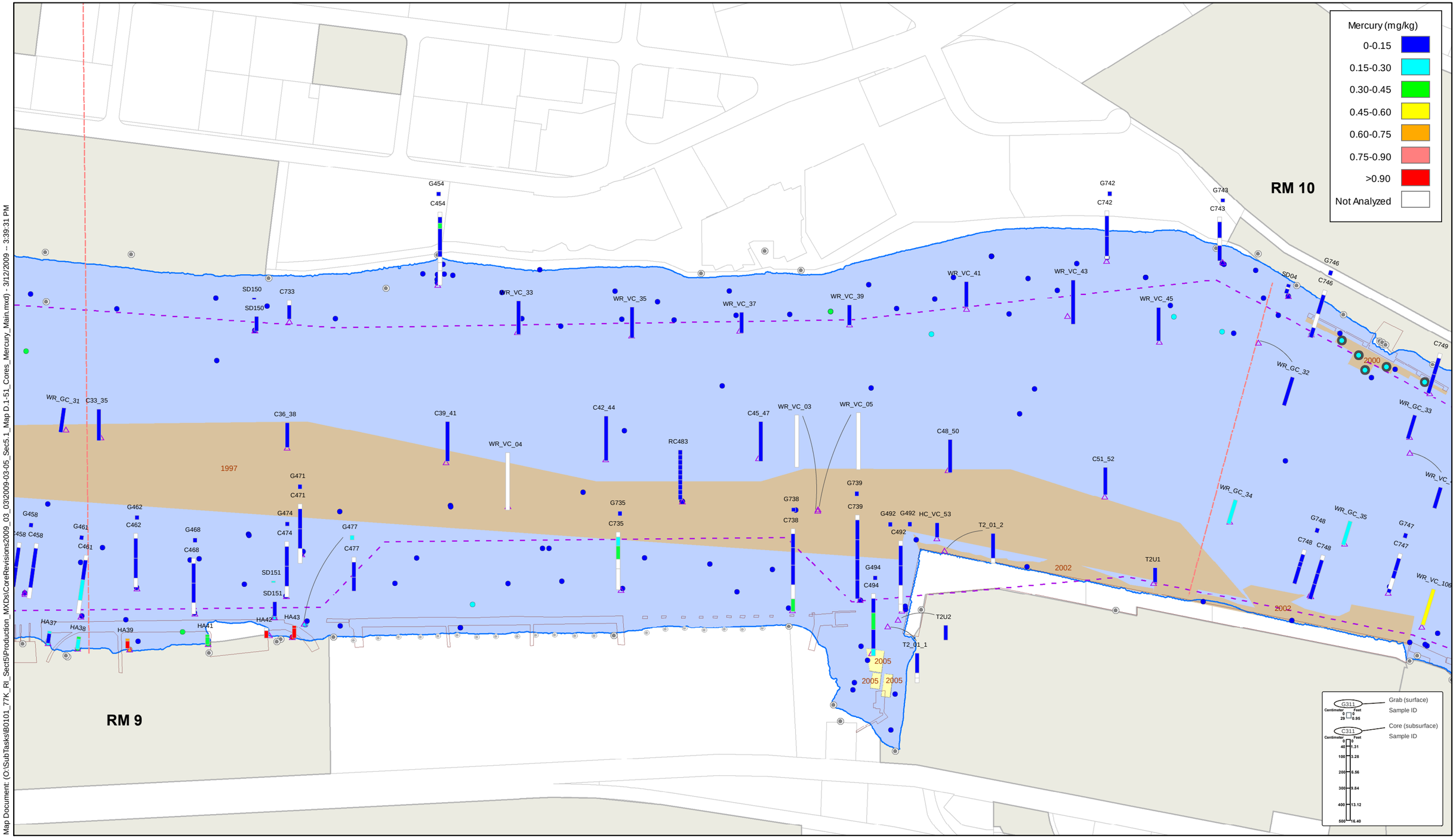
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 08 to 09 - Swan Is. West



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

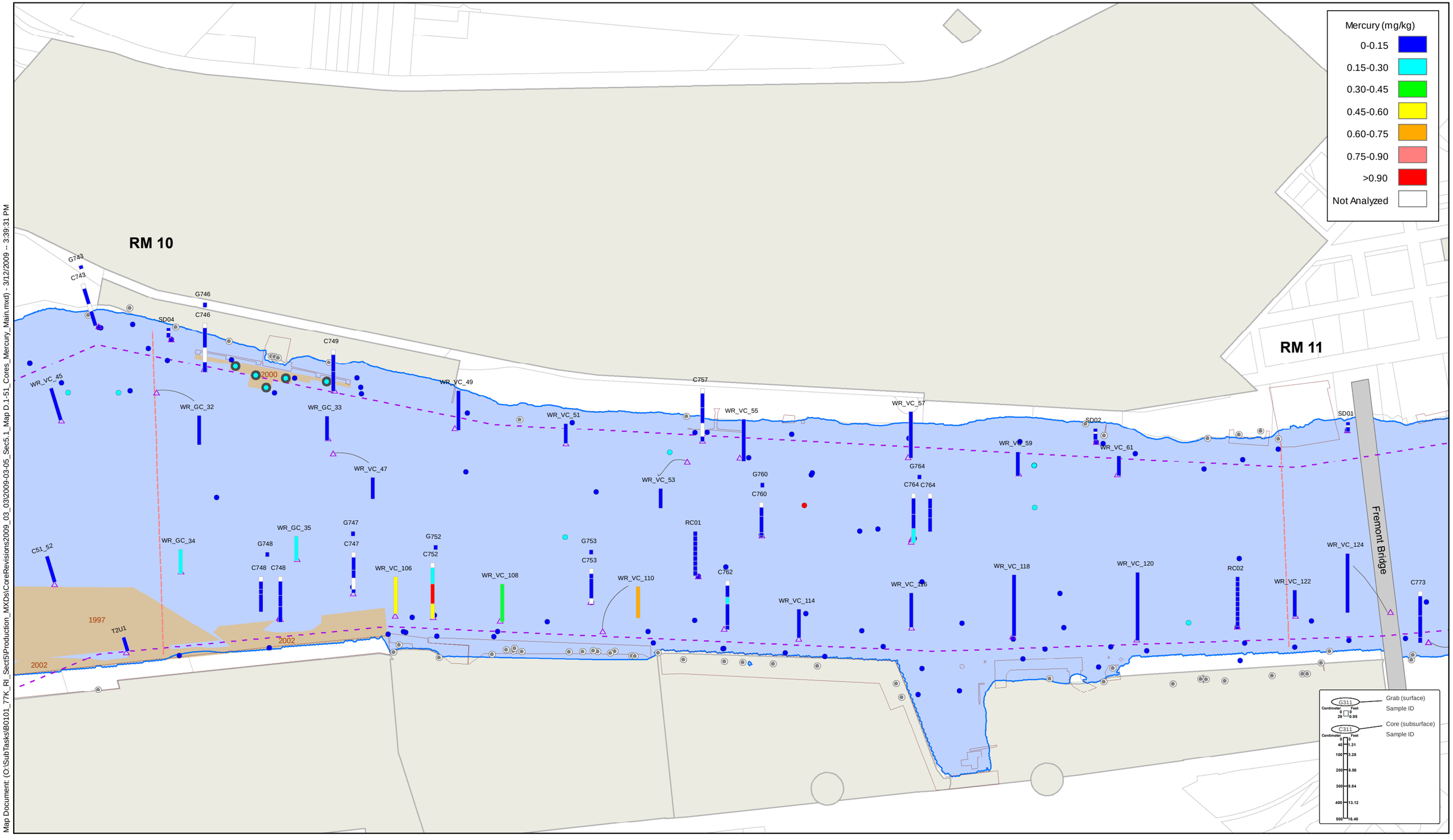
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 09 to 10



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-05_Sec5.1_Map D.1-51_Cores_Mercury_Main.mxd) - 3/12/2009 -- 3:39:31 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

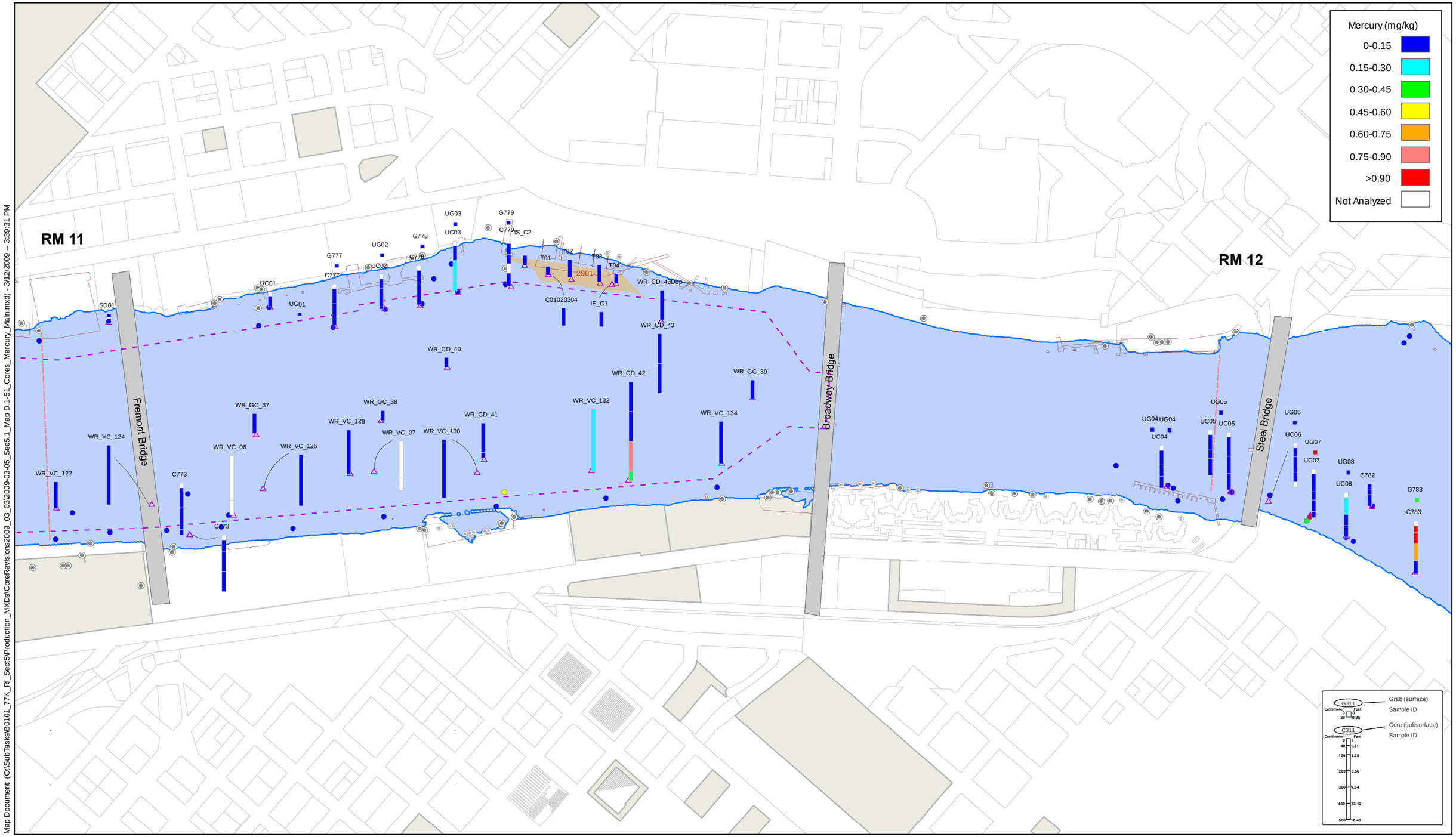
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 10 to 11



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

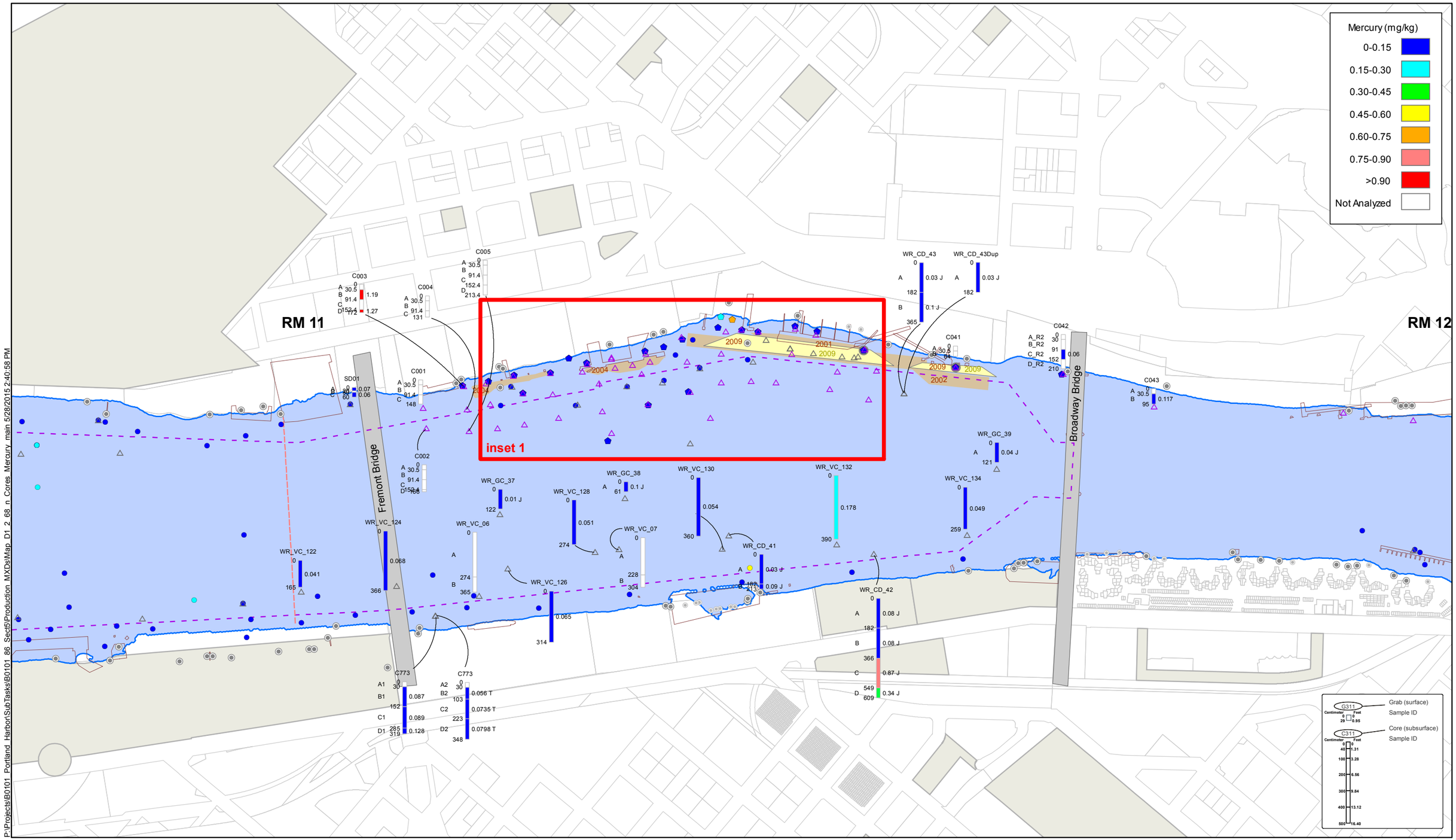
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 11.0 - 11.8

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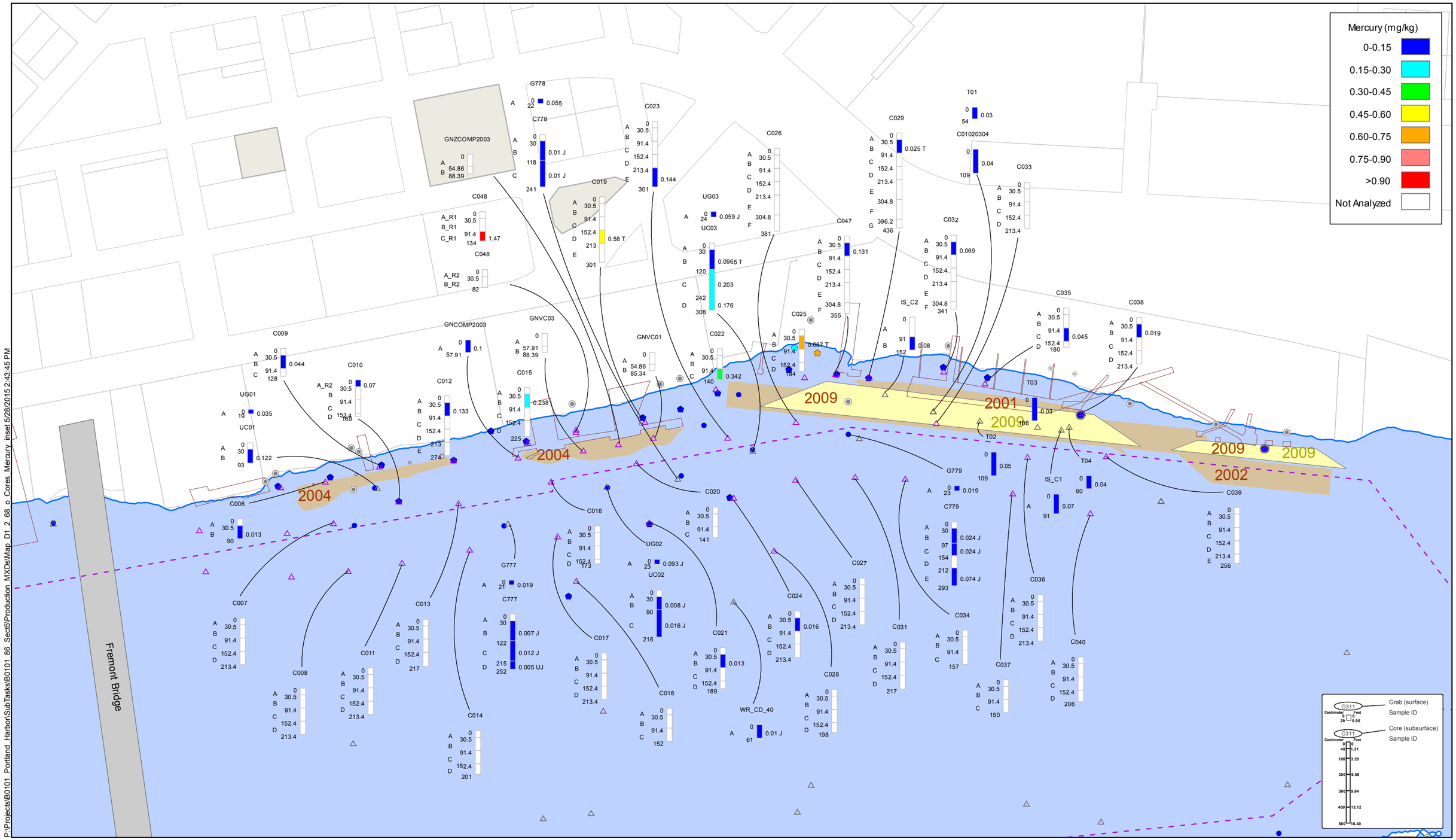

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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

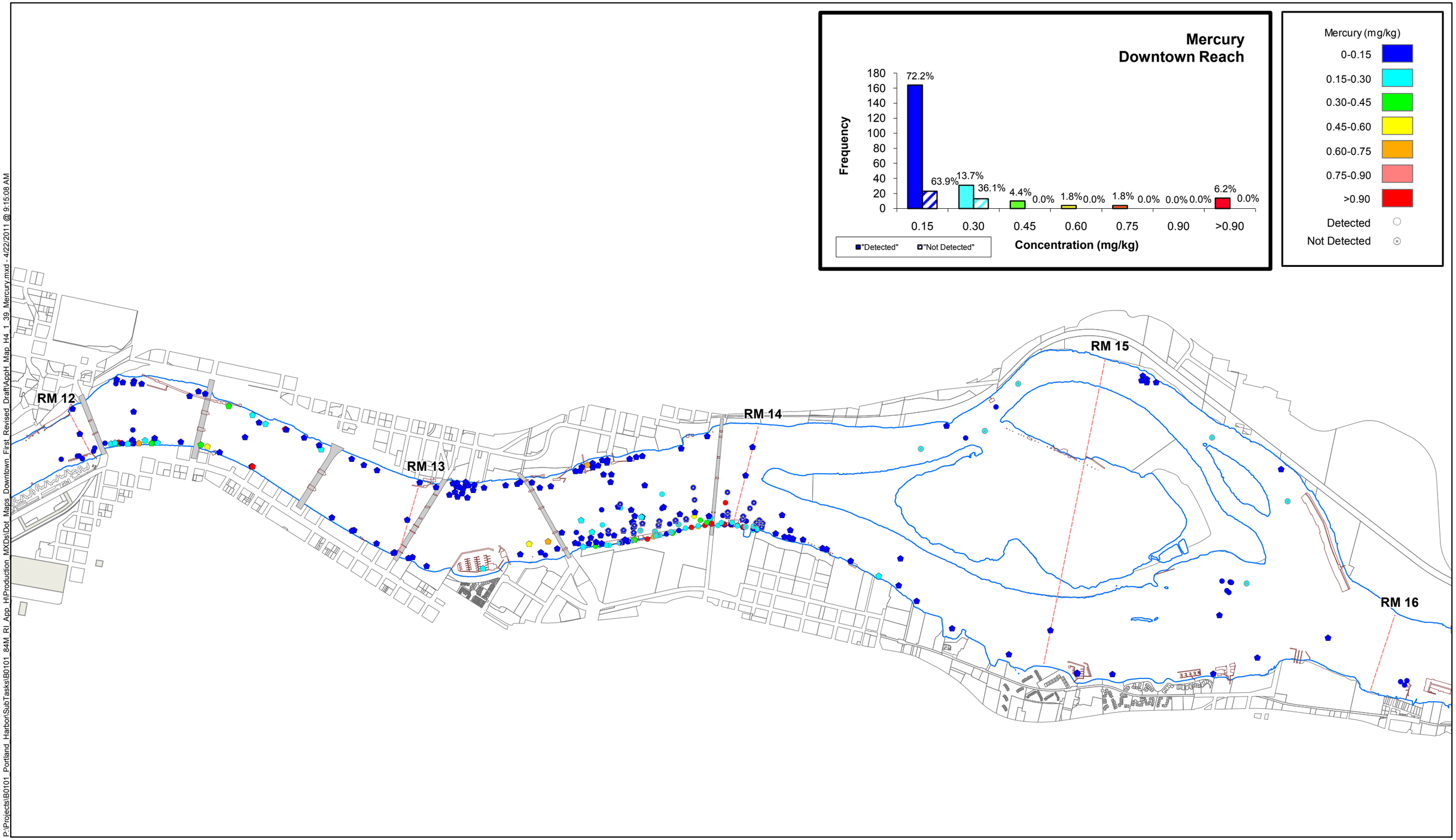
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-68o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Mercury (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



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N

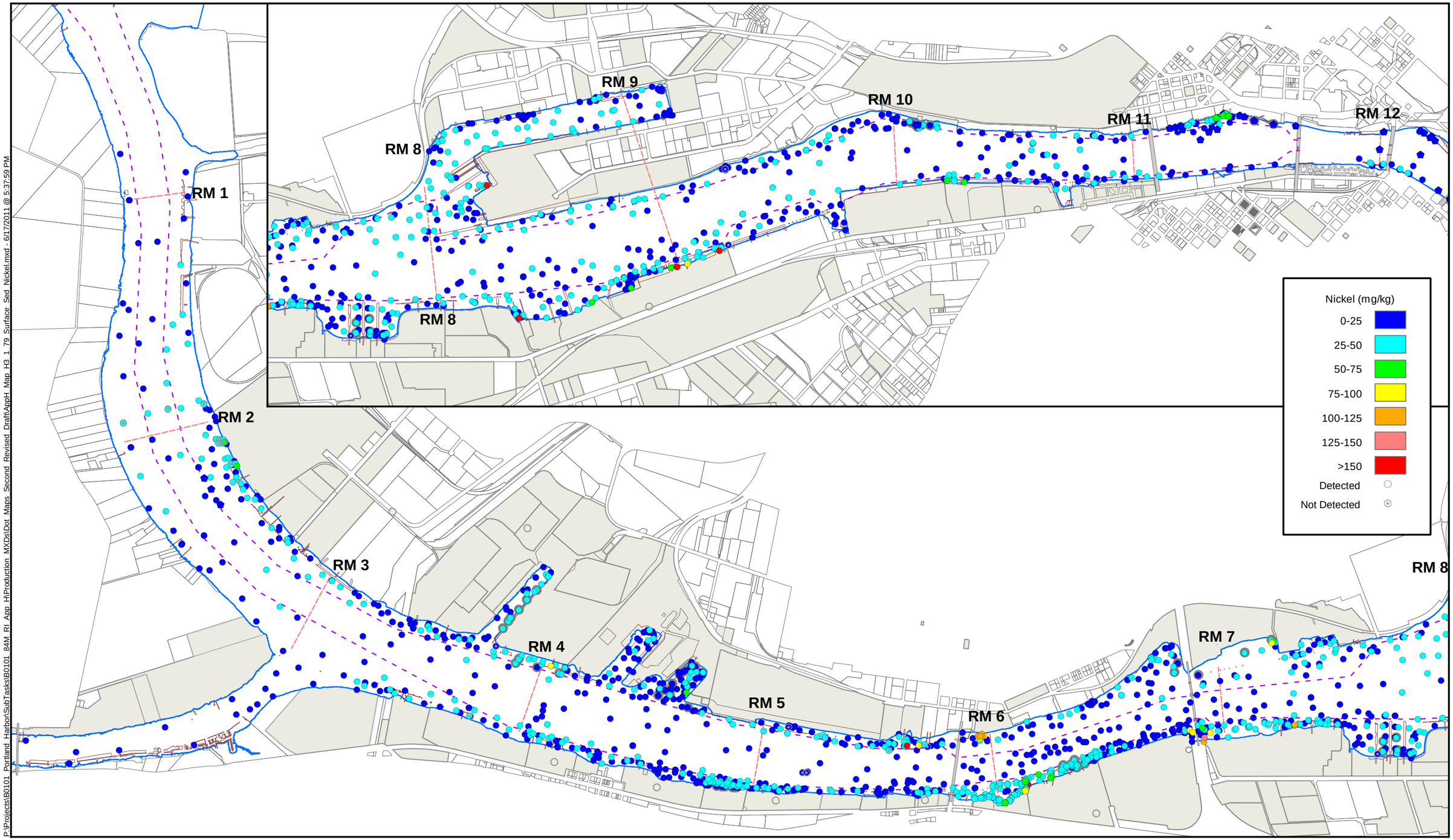
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-69
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Mercury (mg/kg)
Downtown Reach



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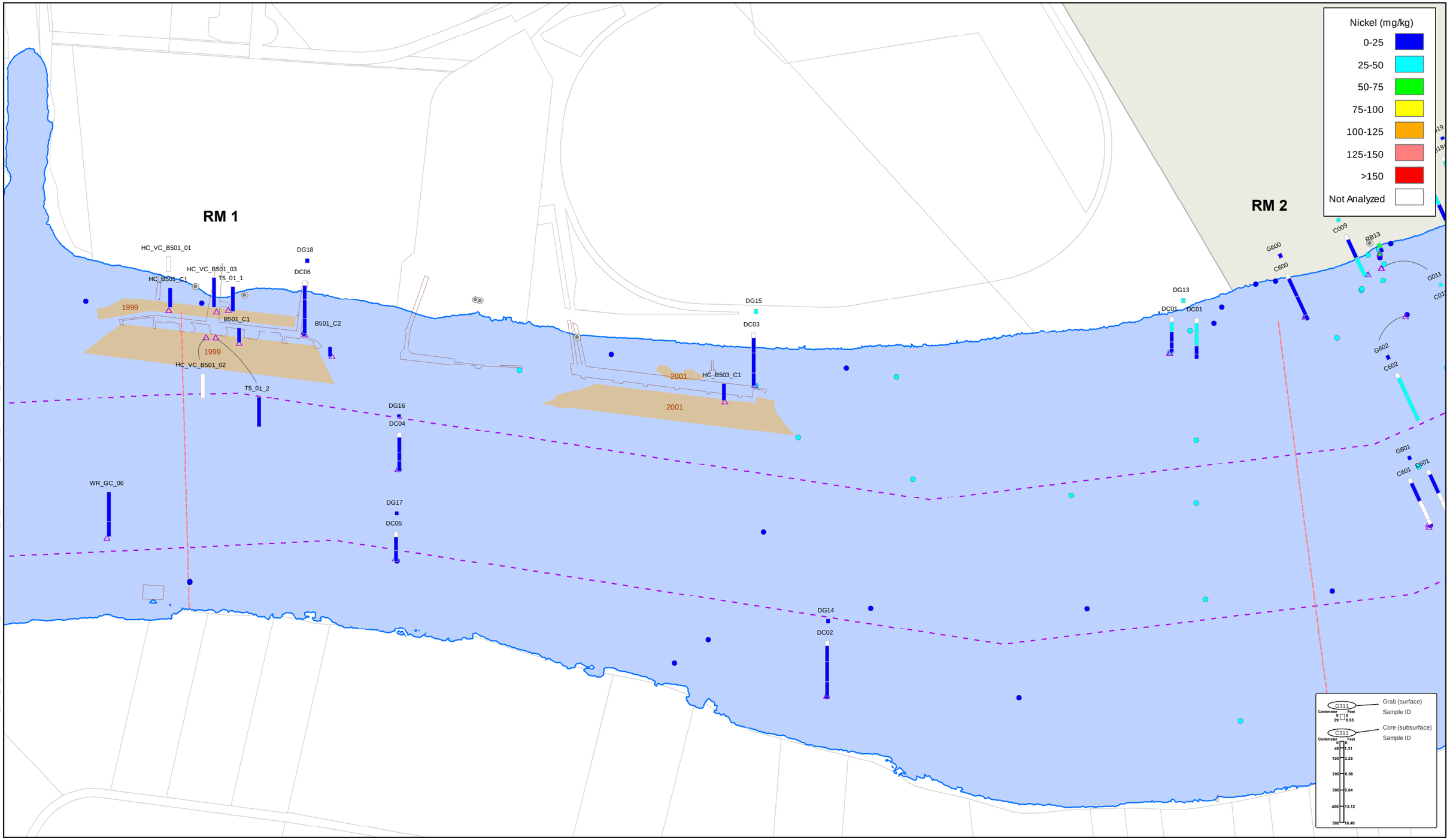
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-70
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Nickel (mg/kg)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

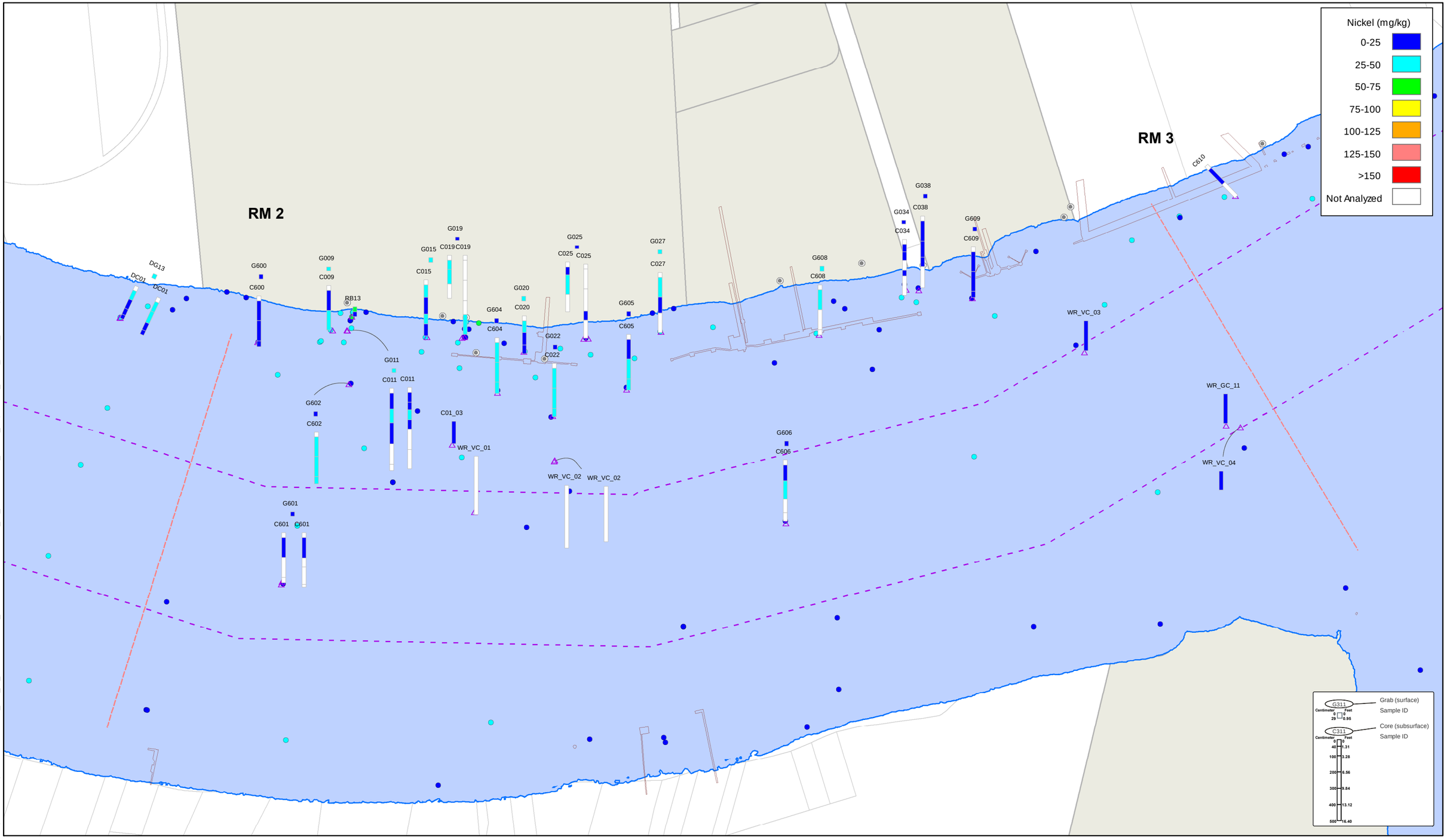
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-03_Sec5.1_Map D.1-52_Cores_Nickel_Main.mxd) - 3/4/2009 -- 3:43:34 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

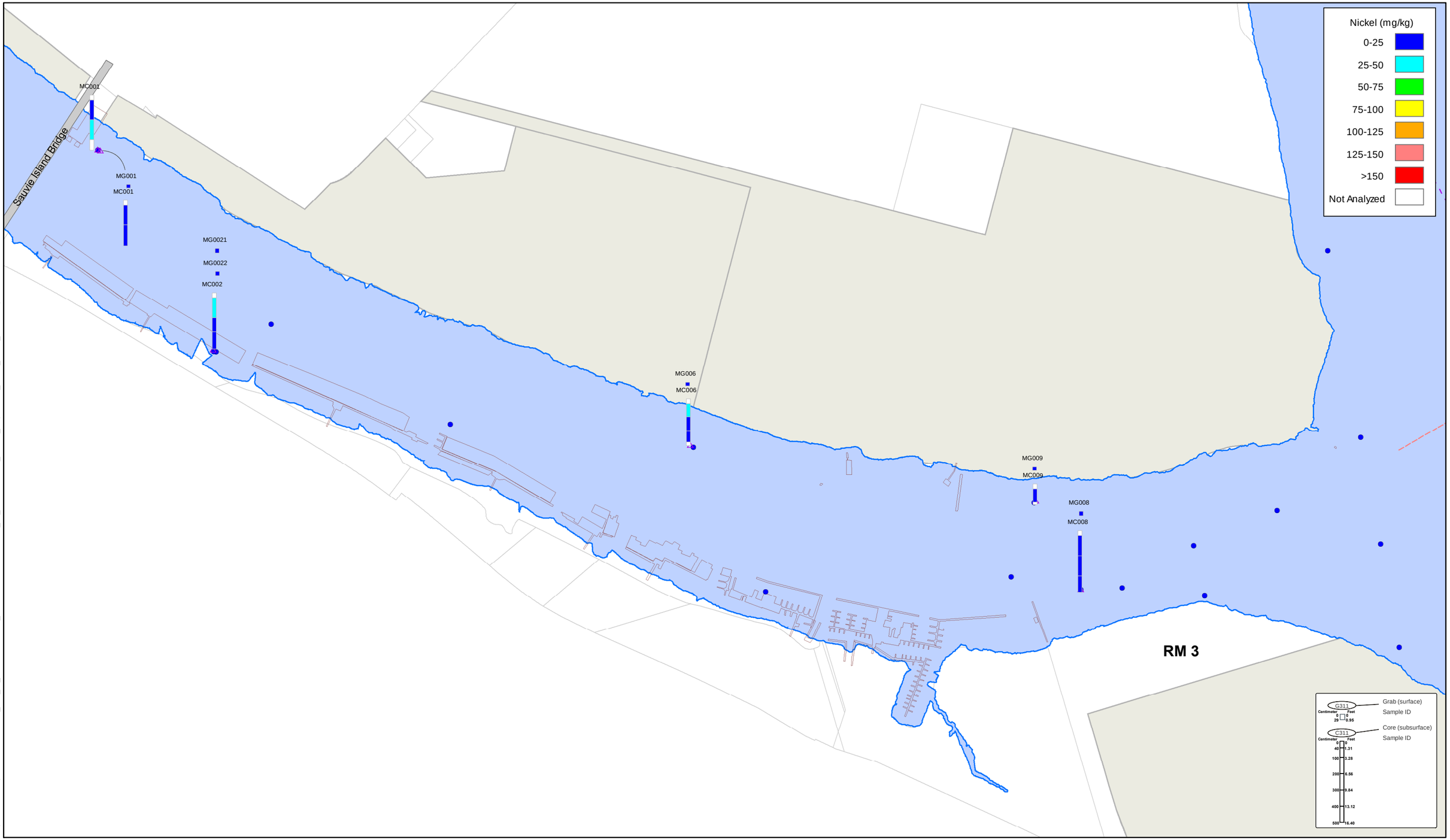
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-7 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 02 to 03



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-03_Sec5.1_Map D.1-52_Cores_Nickel_Main.mxd) - 3/4/2009 -- 3:43:34 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

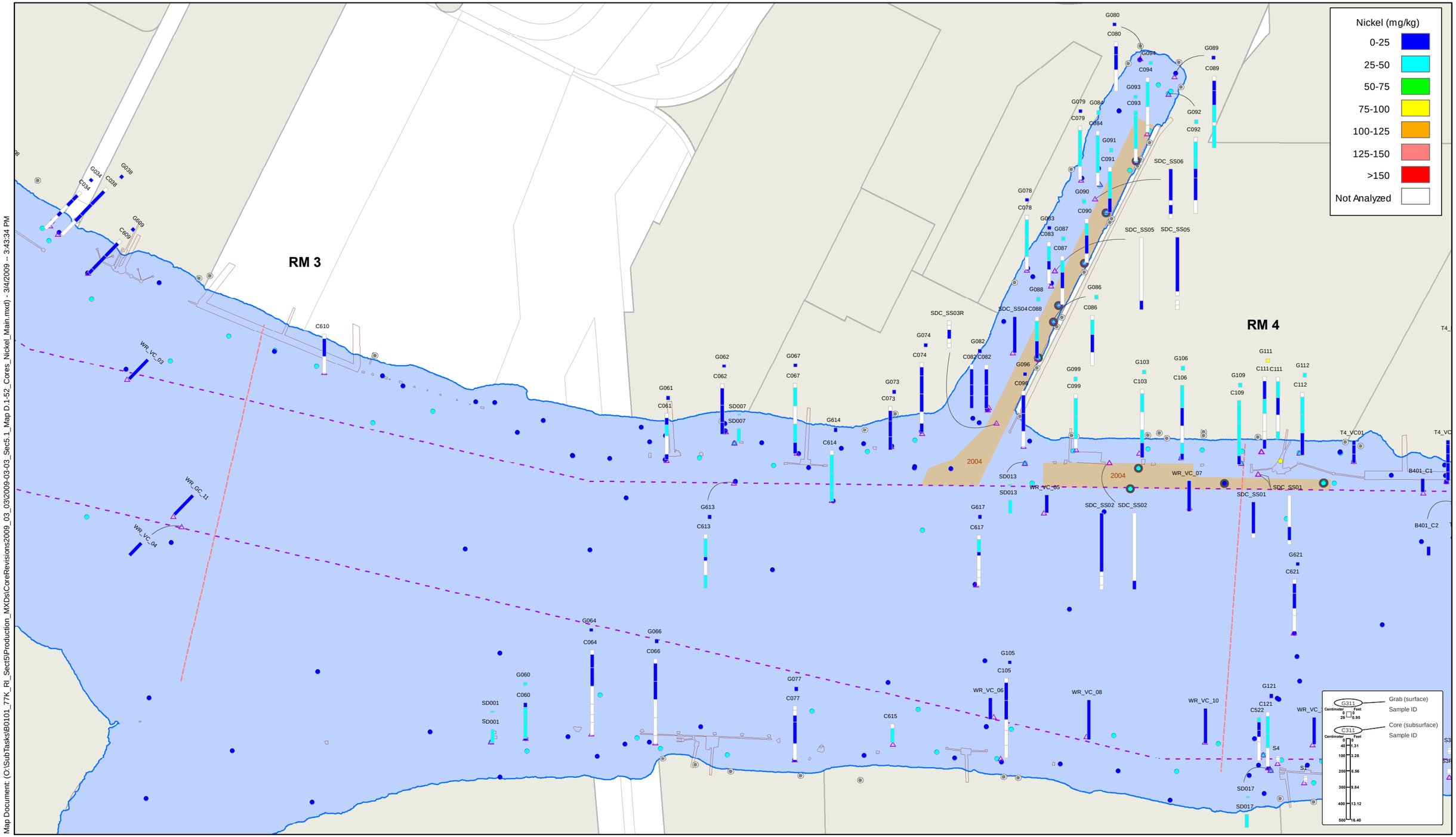
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

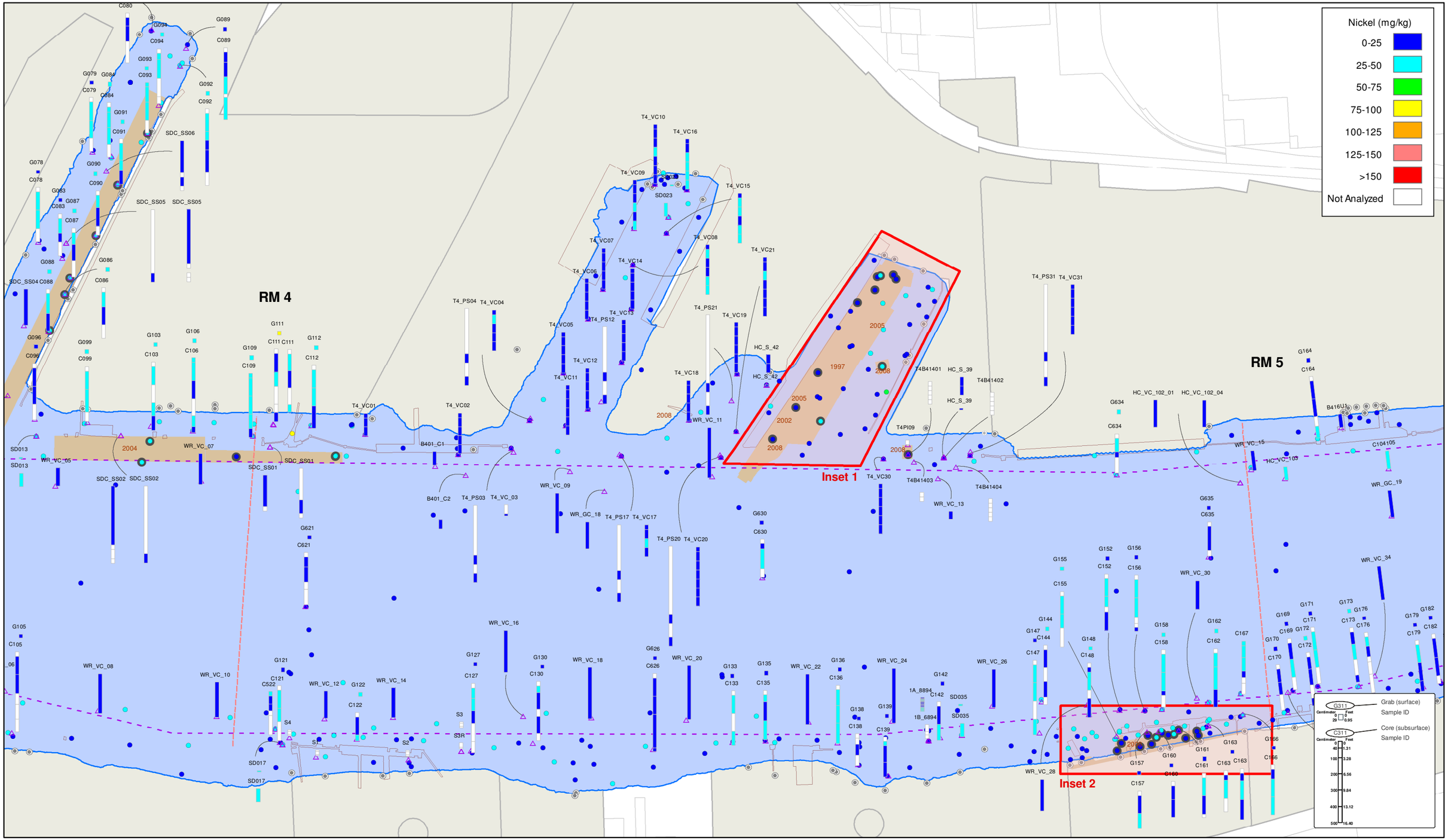
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 03 to 04

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sec45\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-52_Cores_Nickel_Main.mxd) 7/1/2009 -- 1:19:45 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

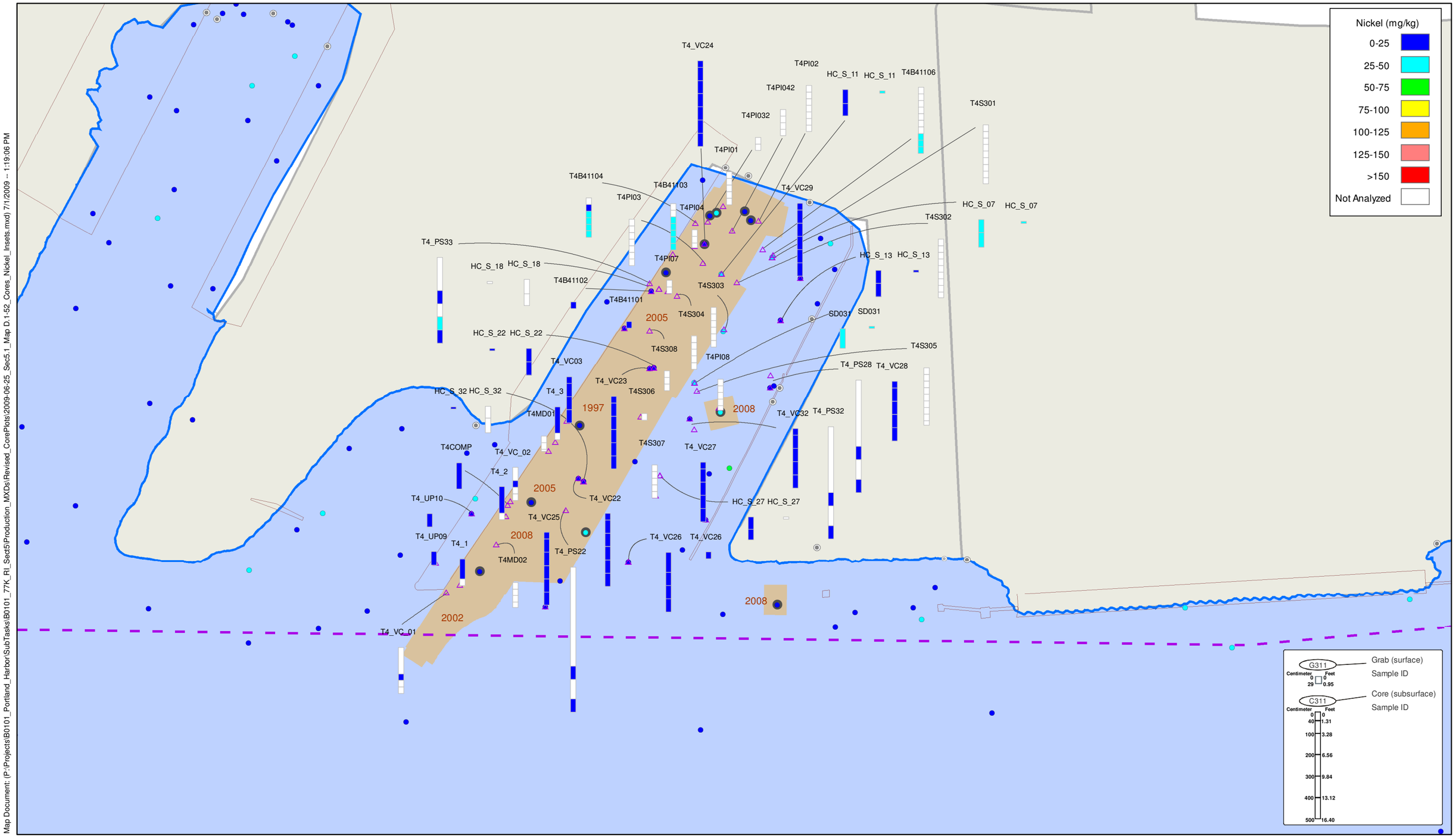
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 04 to 05 - Slips



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

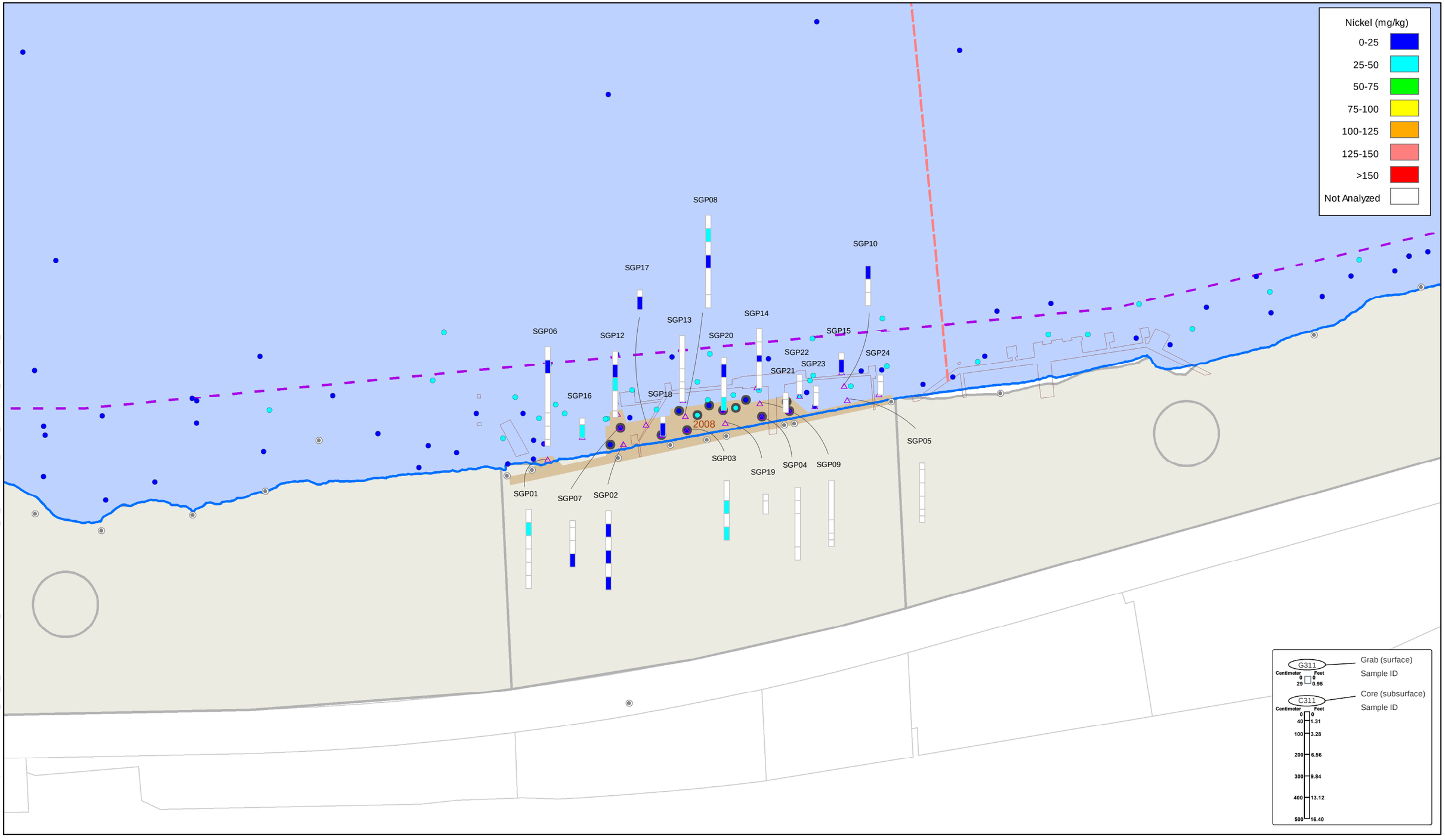
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

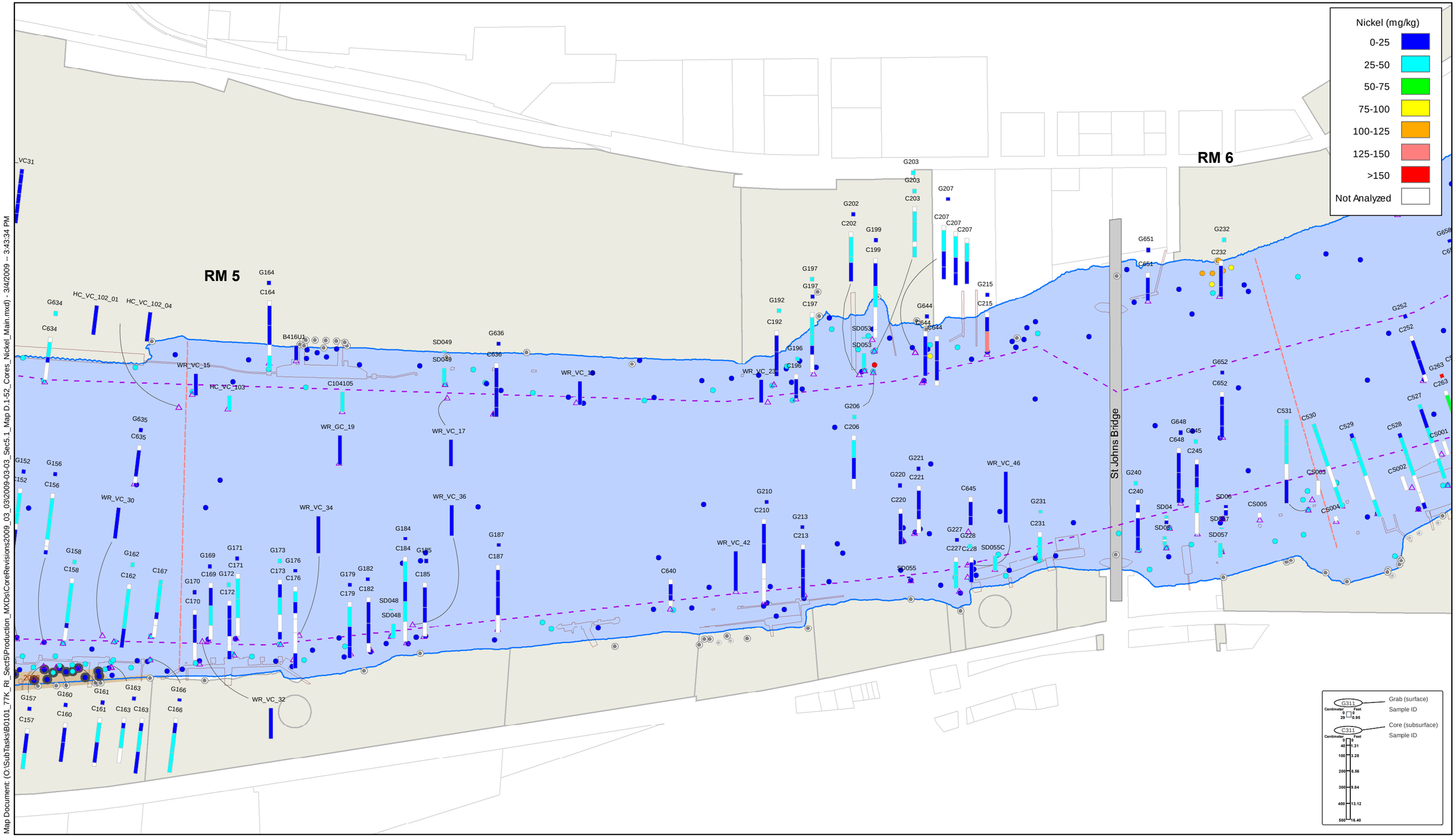
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 04 to 05 - Slips - Inset 2



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

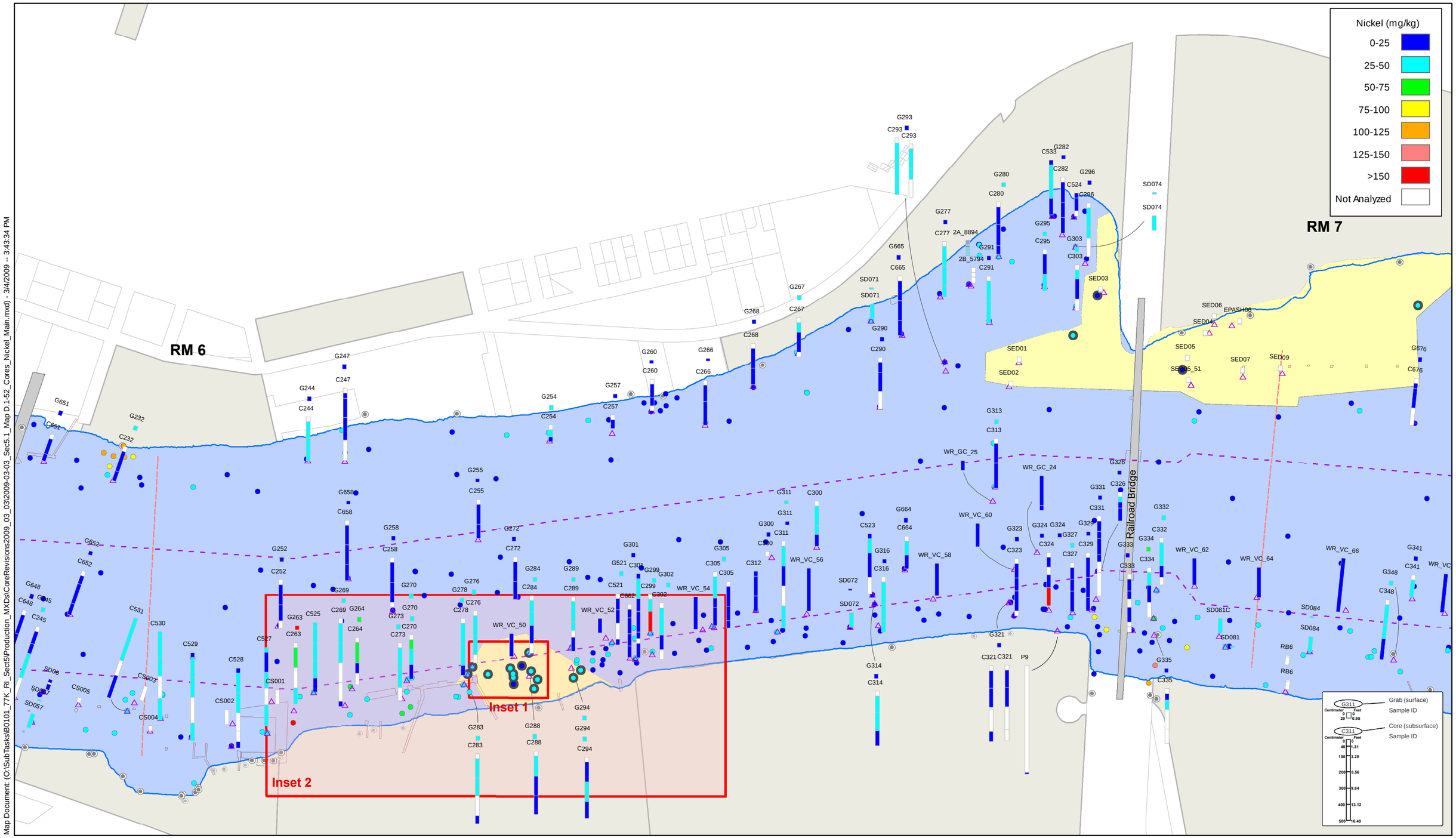
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

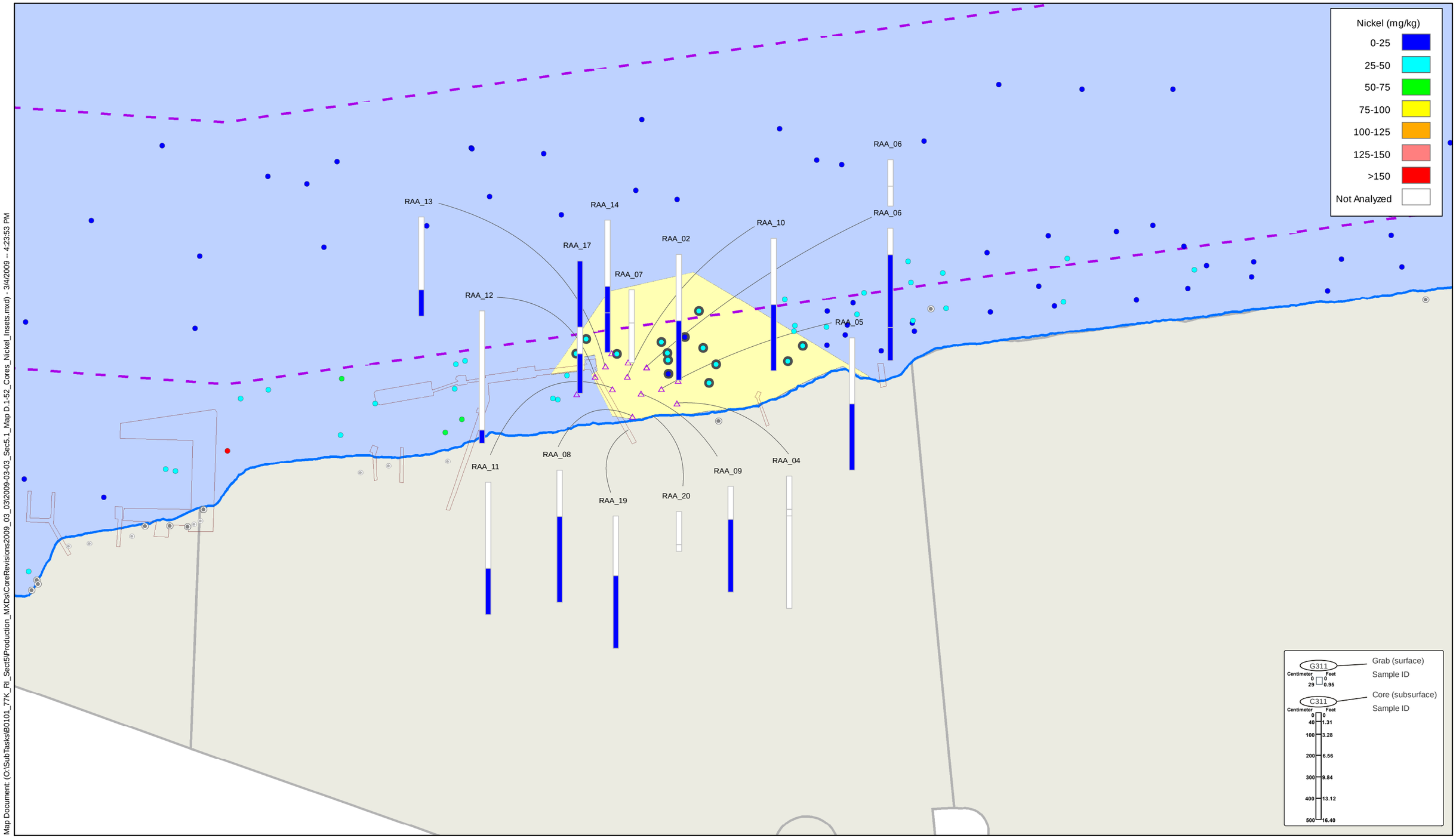
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 06 to 07



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

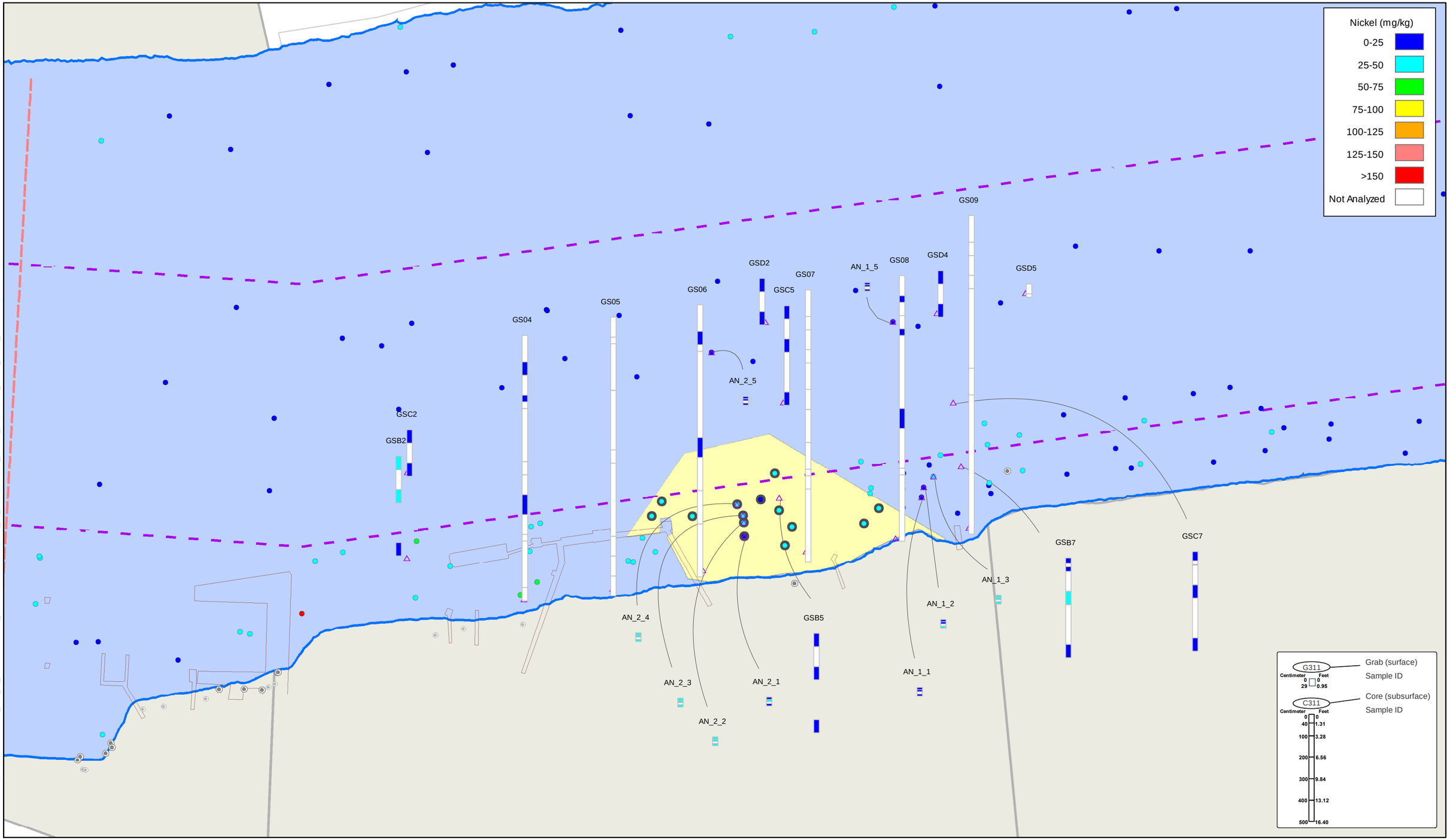
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 06 to 07 - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-03_Sec5.1_Map D.1-52_Cores_Nickel_Insets.mxd) - 3/4/2009 -- 4:23:53 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

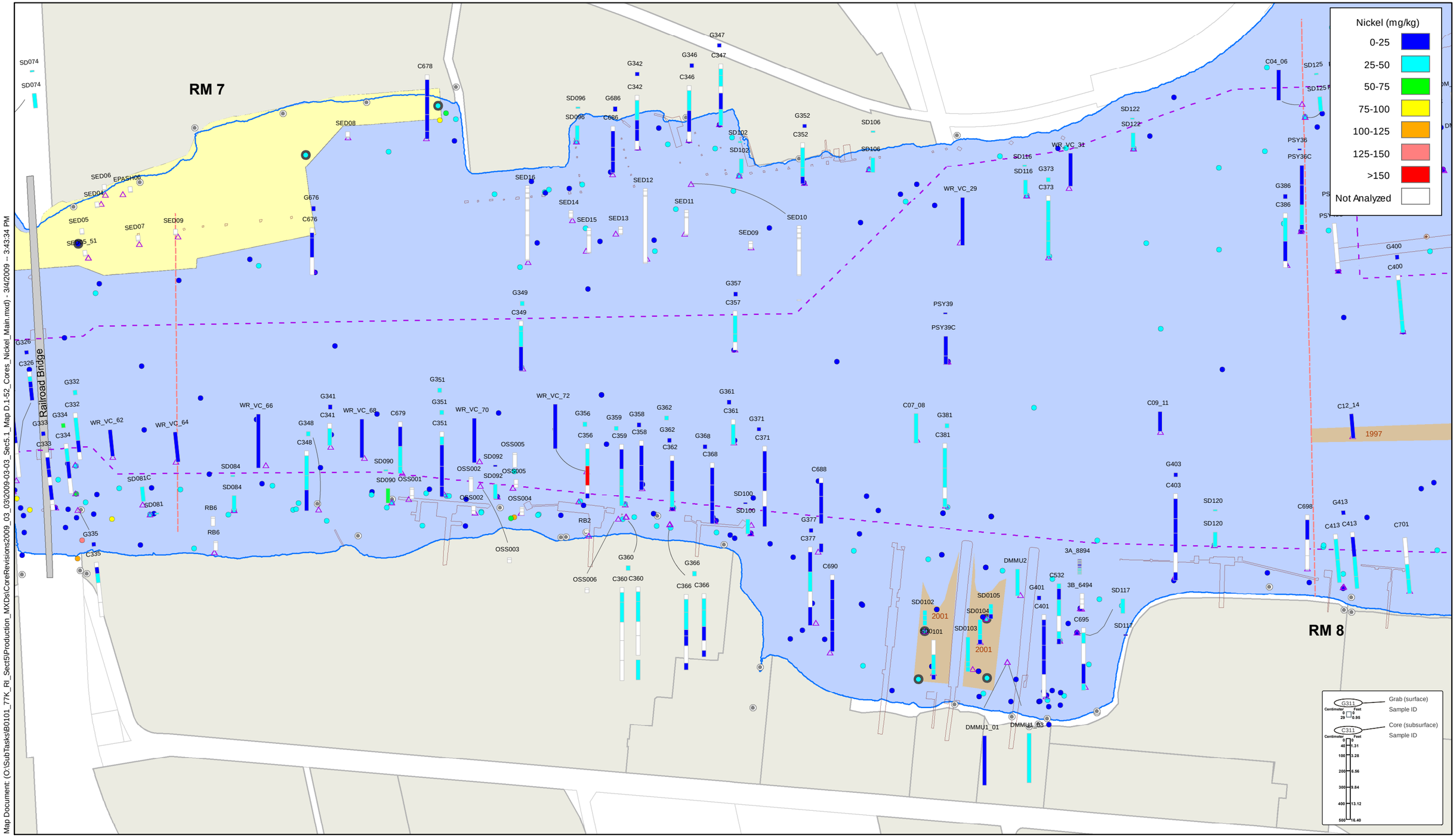
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 06 to 07 - Inset 2



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FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

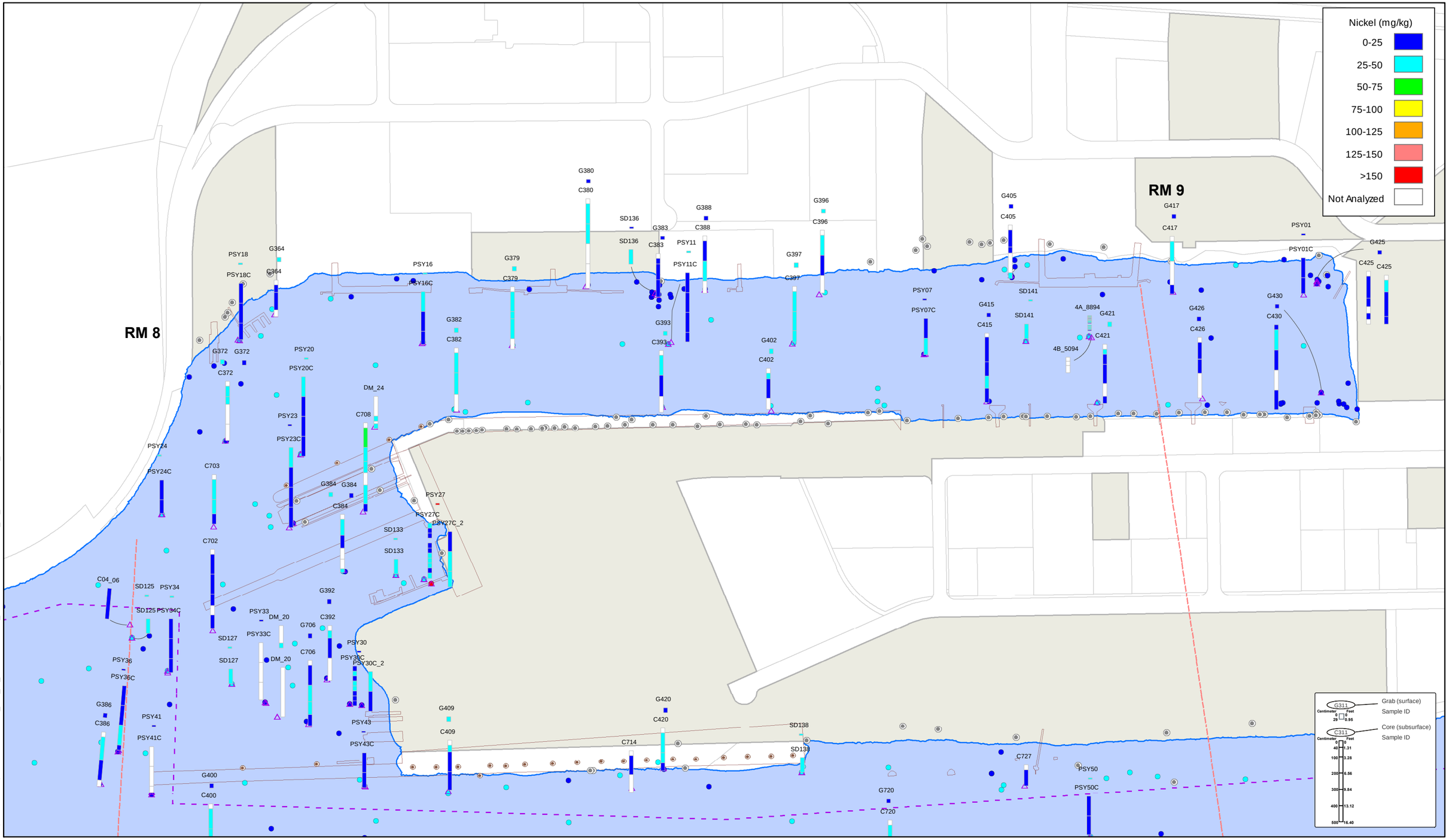
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 07 to 08



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FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
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N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

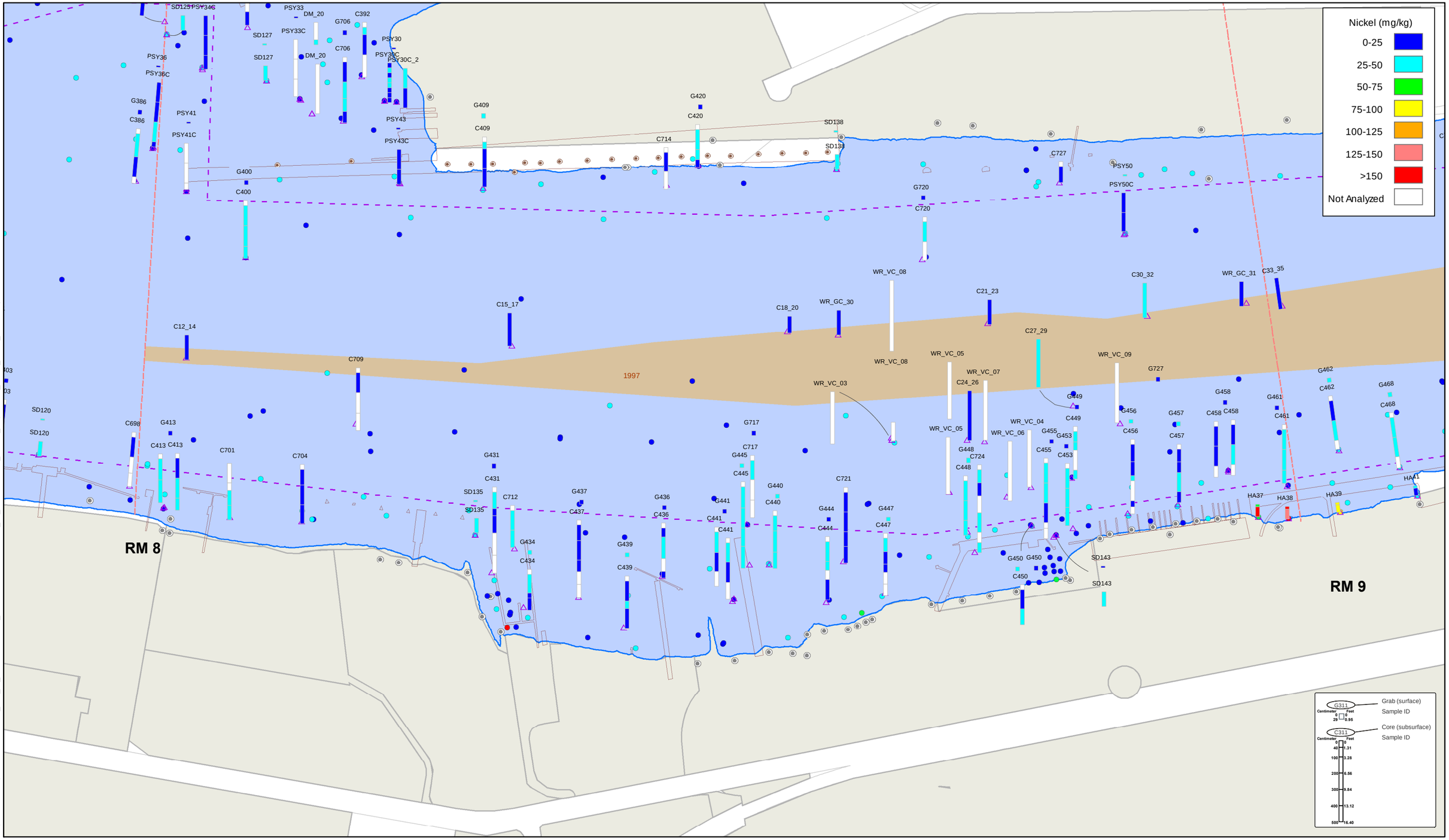
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

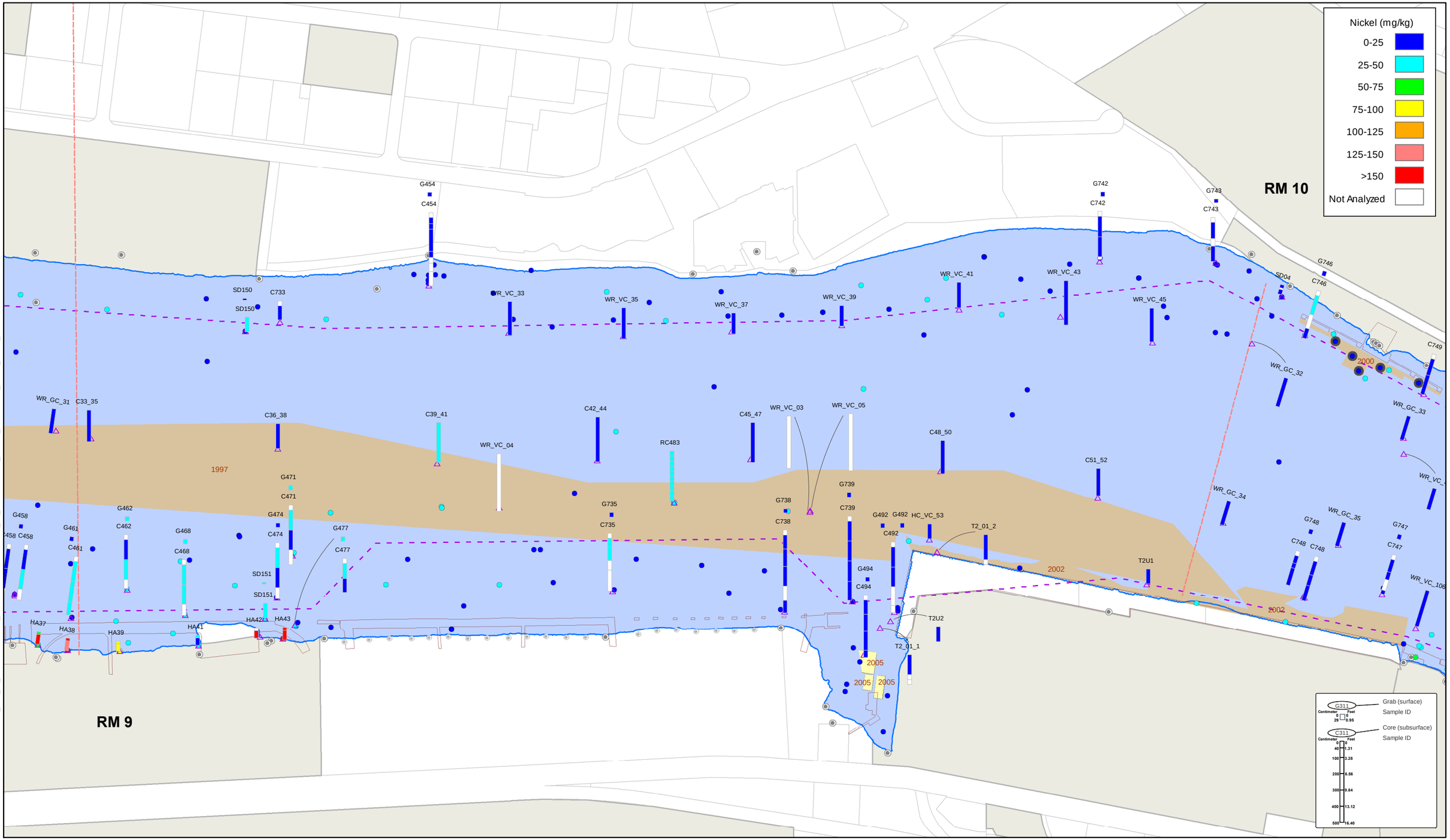
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 08 to 09 - Swan Is. West

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-03_Sec5.1_Map D.1-53_Cores_Nickel_Main.mxd) - 3/12/2009 -- 9:07:55 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

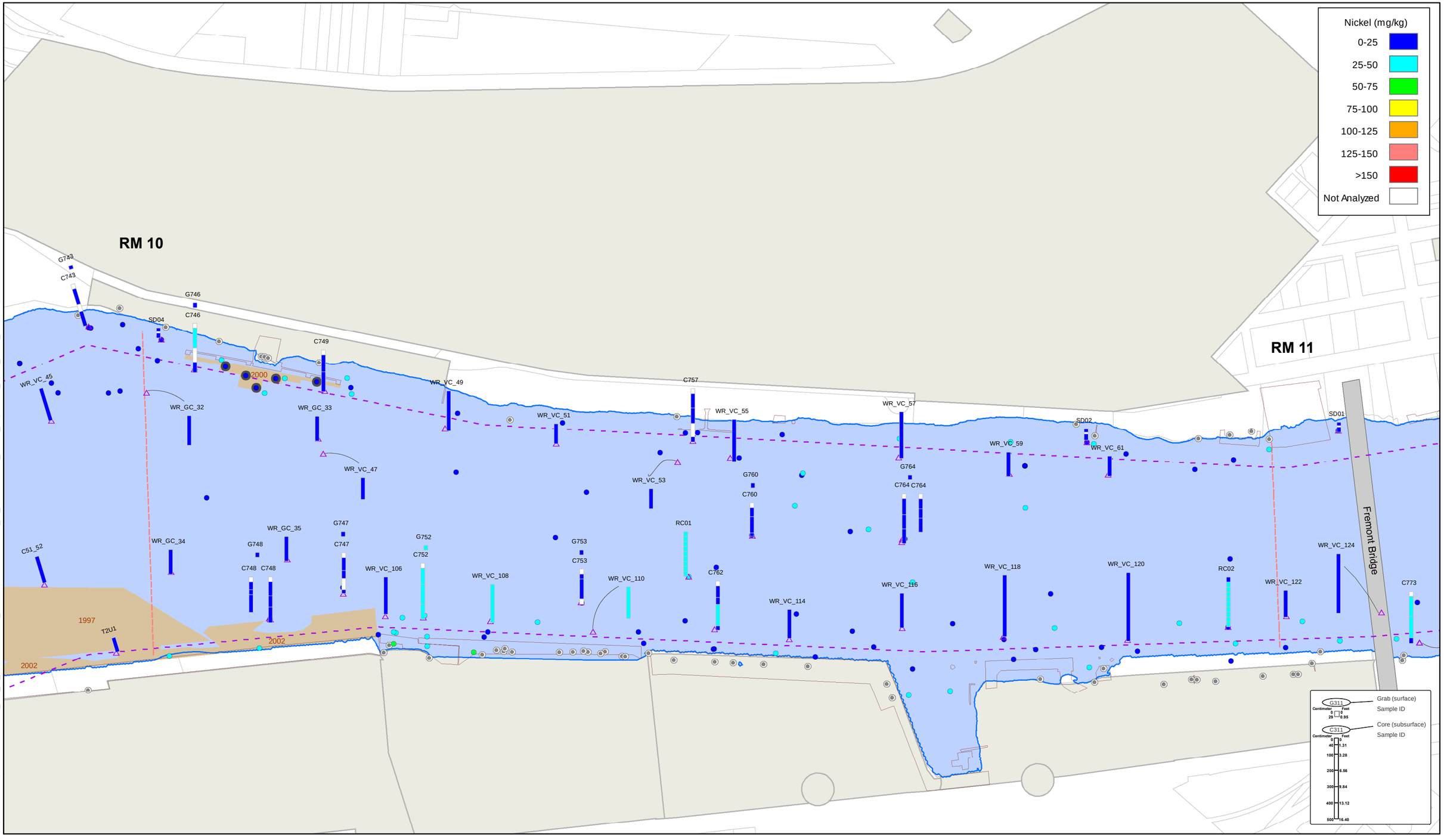
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 09 to 10

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-03_Sec5.1_Map D.1-52_Cores_Nickel_Main.mxd) - 3/4/2009 -- 3:43:34 PM



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

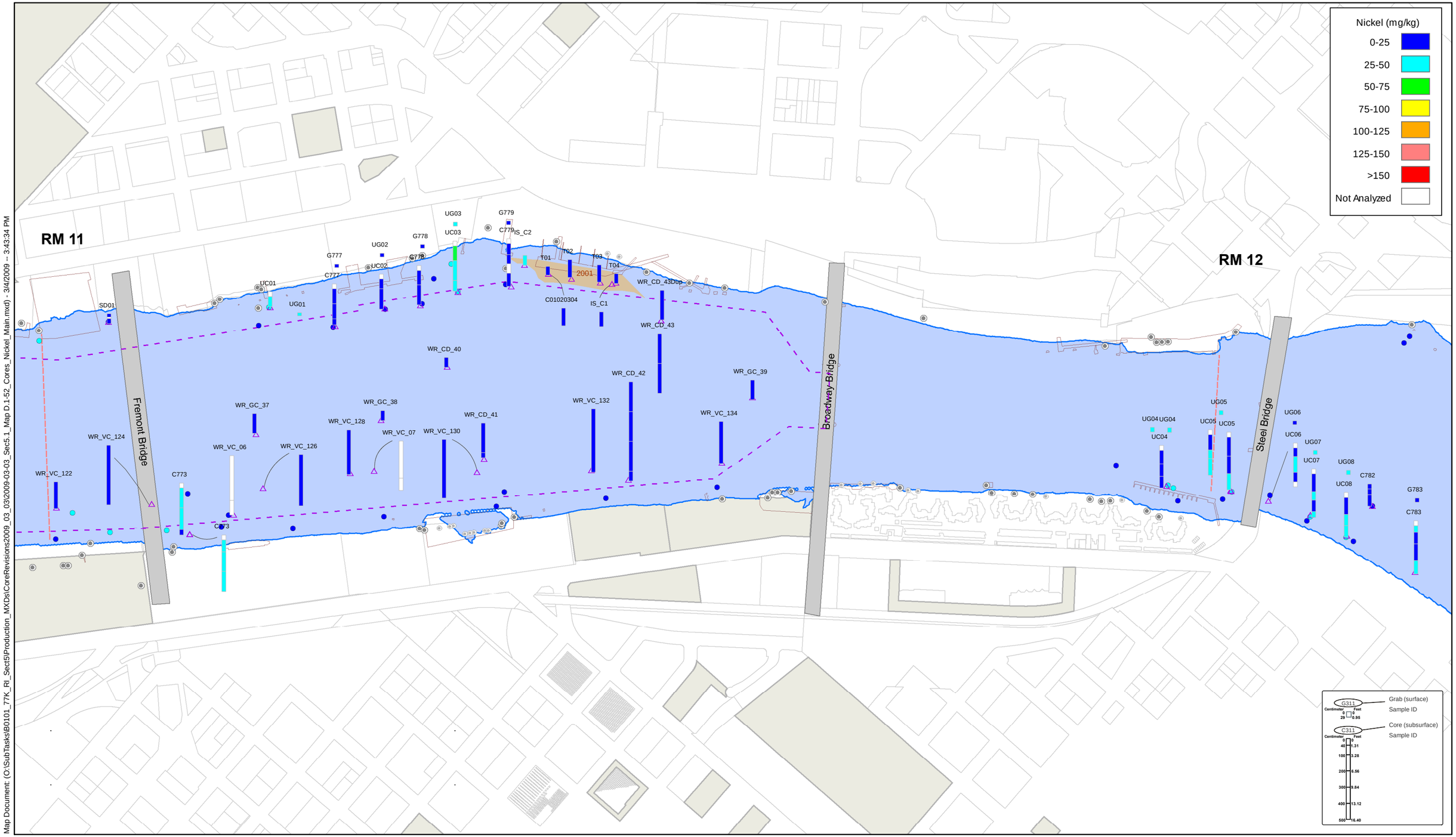
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 10 to 11



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N

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Bathymetric Information: David Evans and Associates, Inc.
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0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

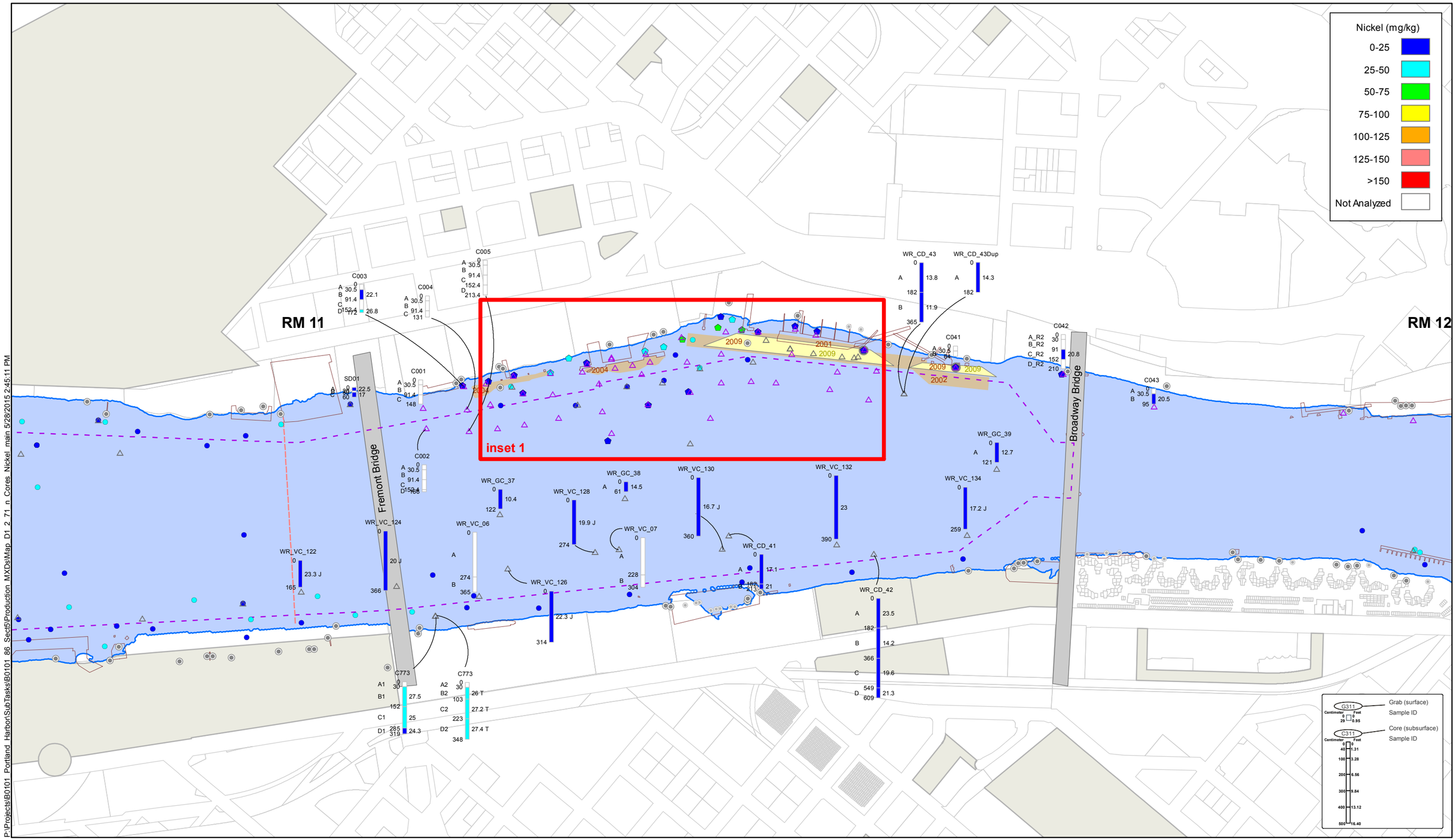
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 11 to 12



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Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

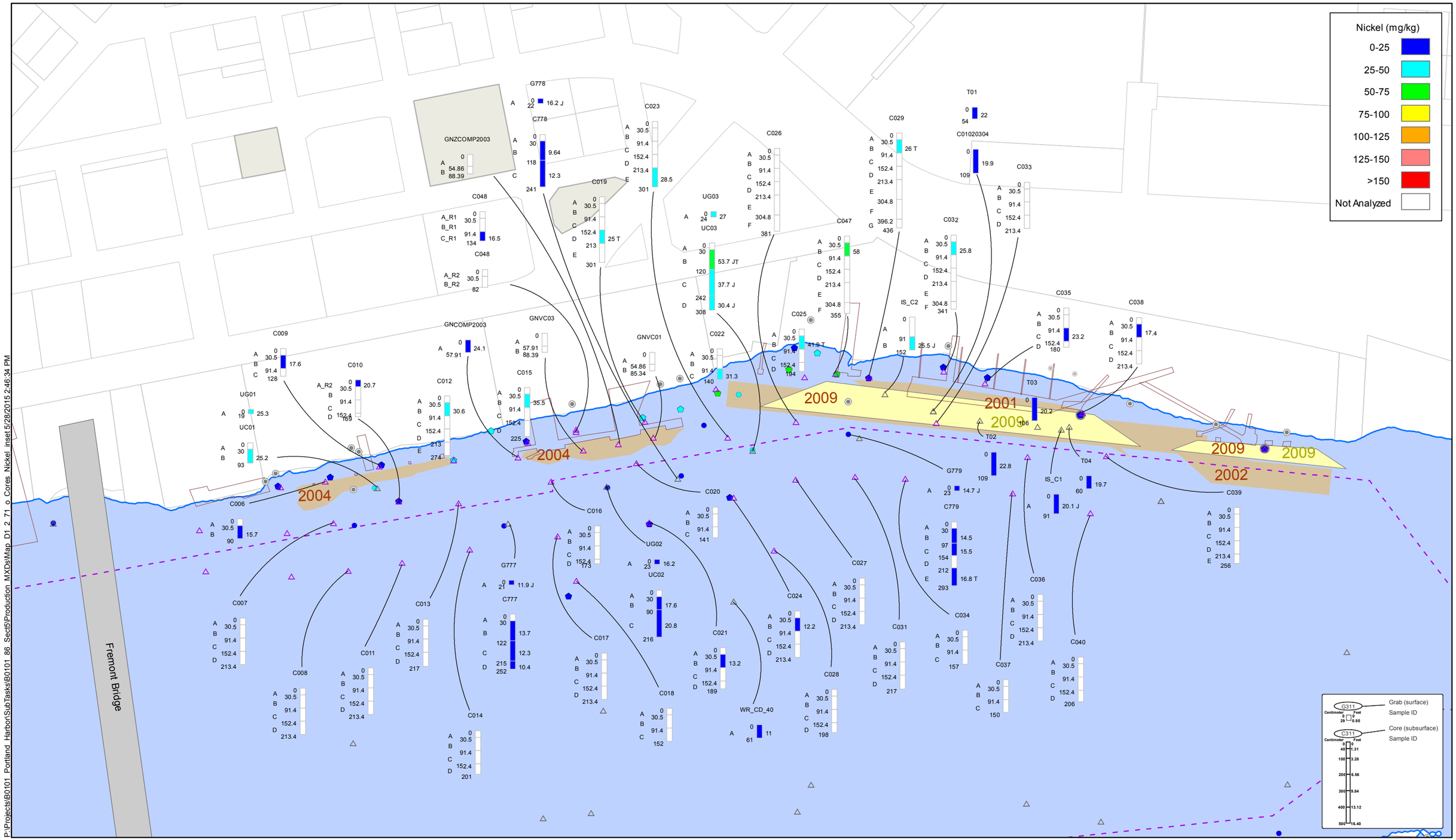
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 11.0 - 11.8



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

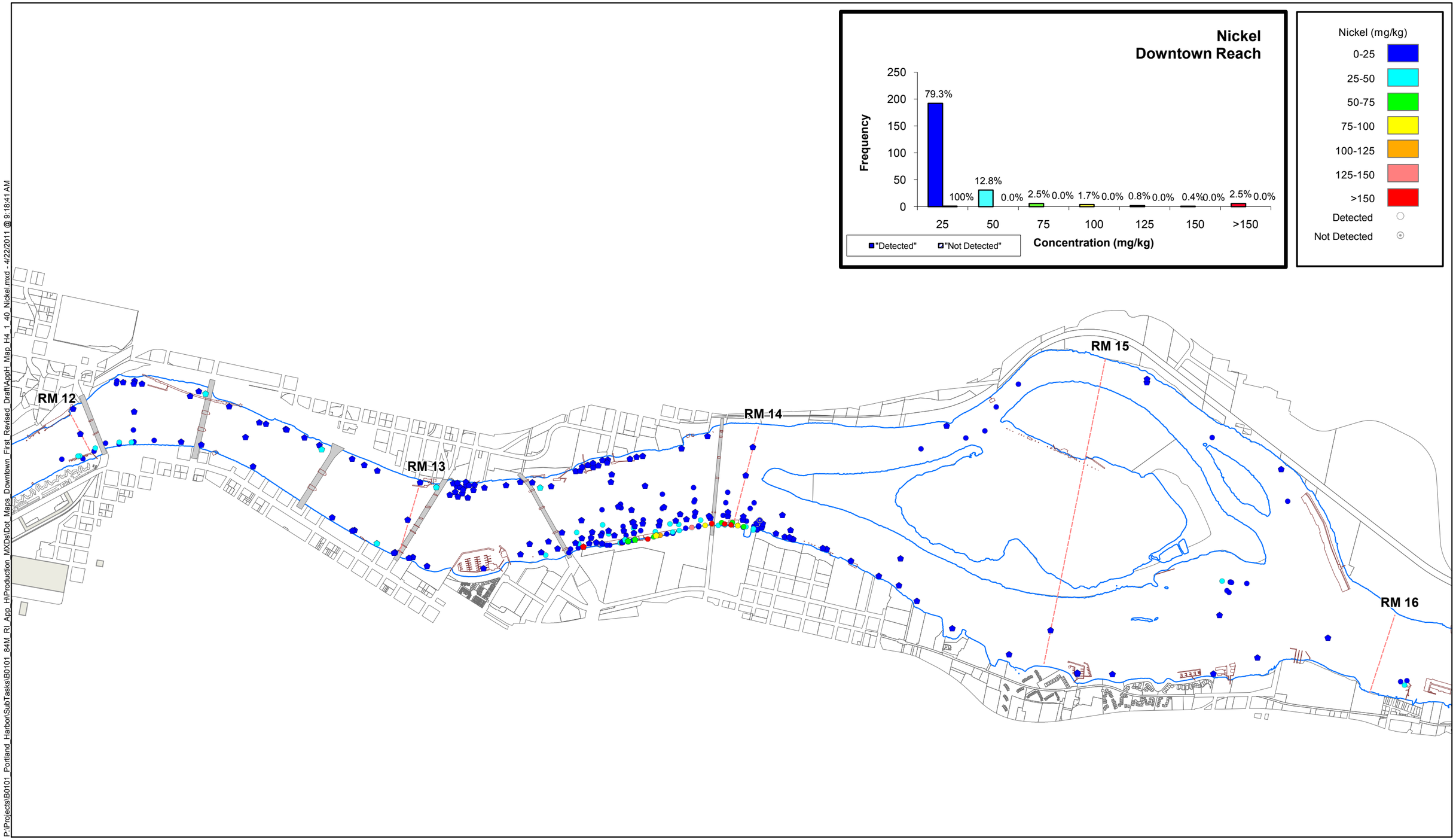
Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-71o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Nickel (mg/kg)

River Mile 11.0 - 11.8 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-72
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Nickel (mg/kg)
Downtown Reach

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_84M_RI_App_H\Production_MXDs\Dot_Maps_Second_Revised_Draft\AppH_Map_H3_1_69_Surface_Sed_PercentFines.mxd - 6/17/2011 @ 4:29:19 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

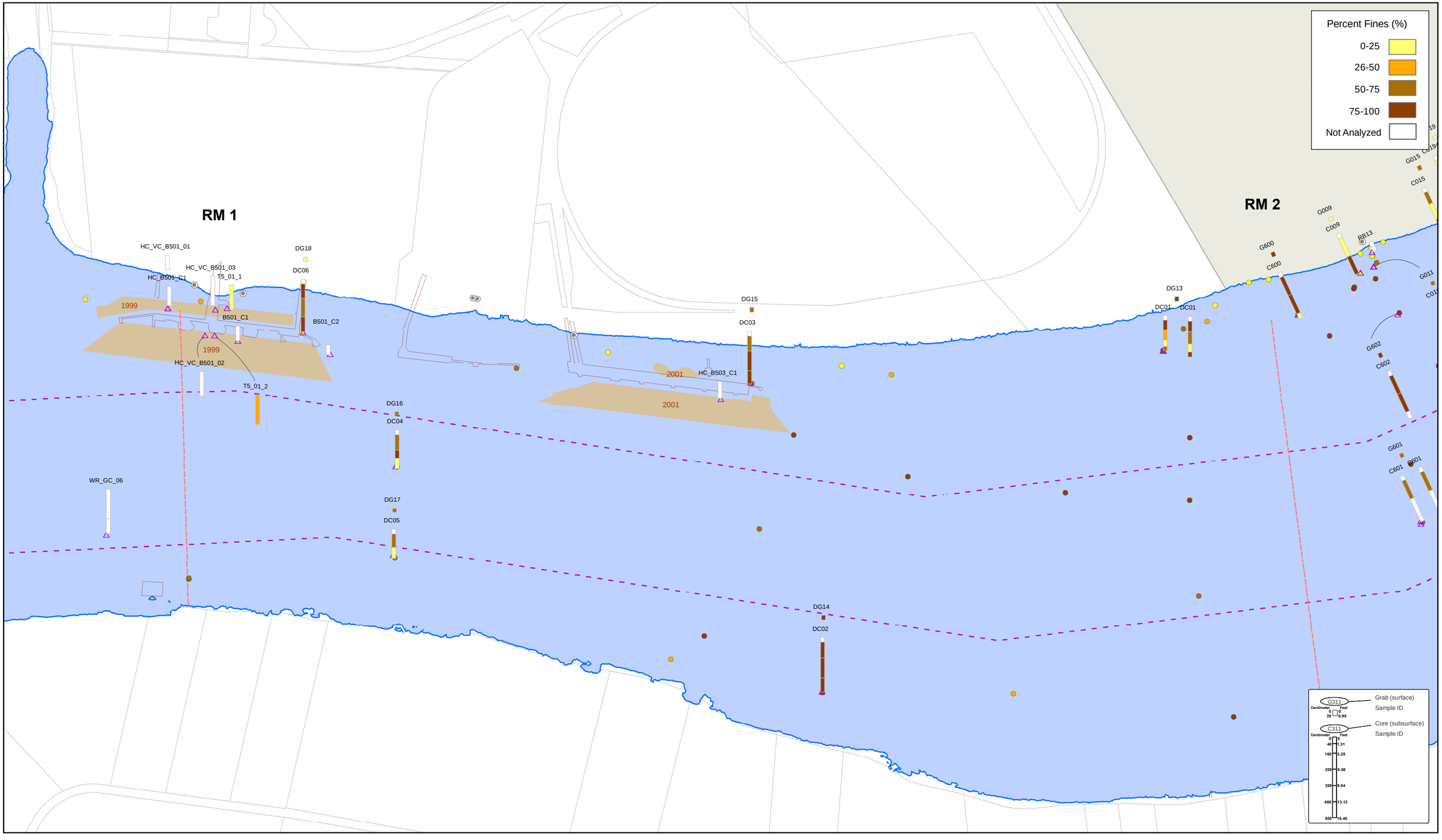
N

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-73
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Percent Fines (%)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

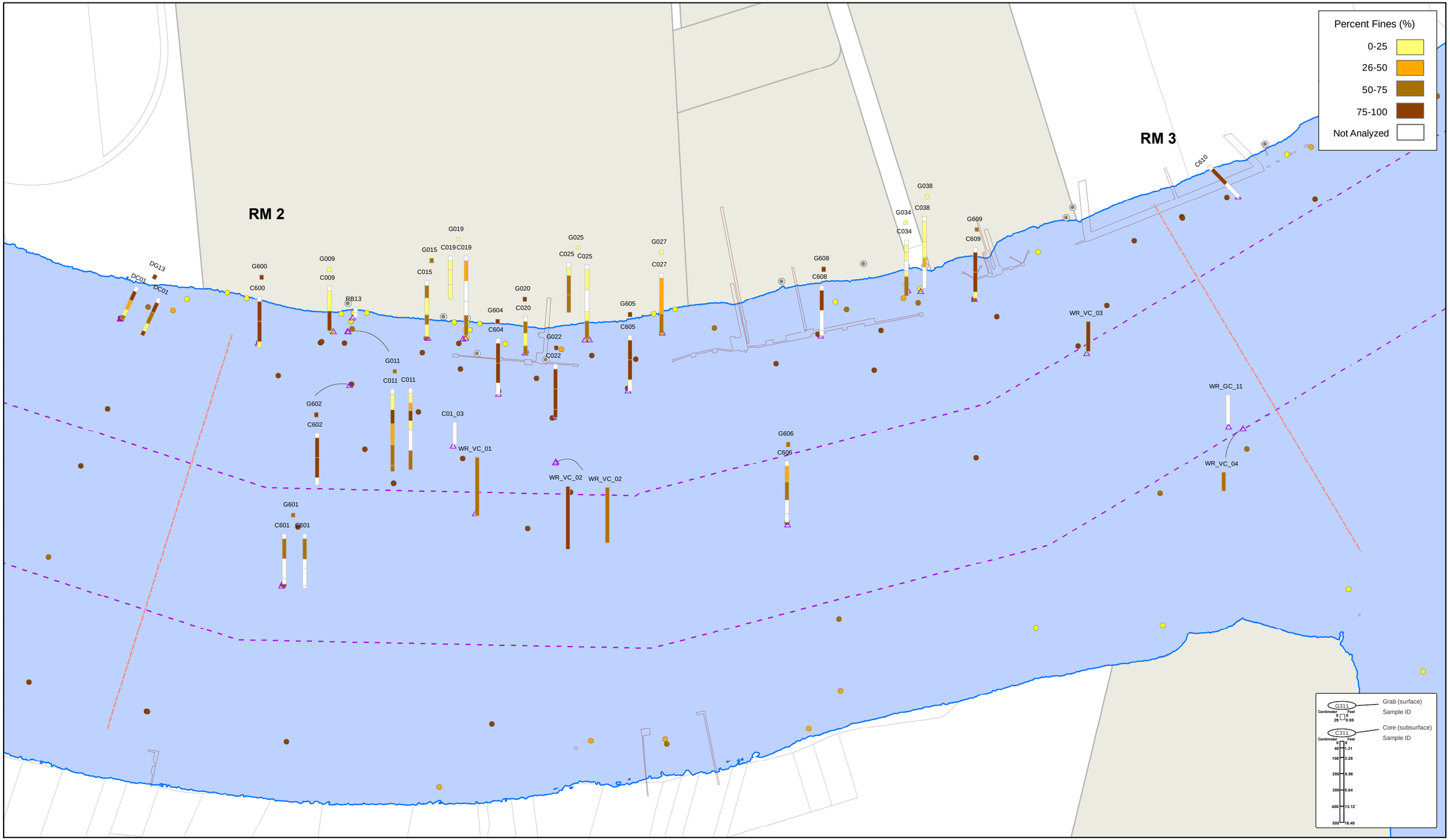
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 01 to 02

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-43_Cores_Fines_Main.mxd) - 3/24/2009 -- 8:13:27 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

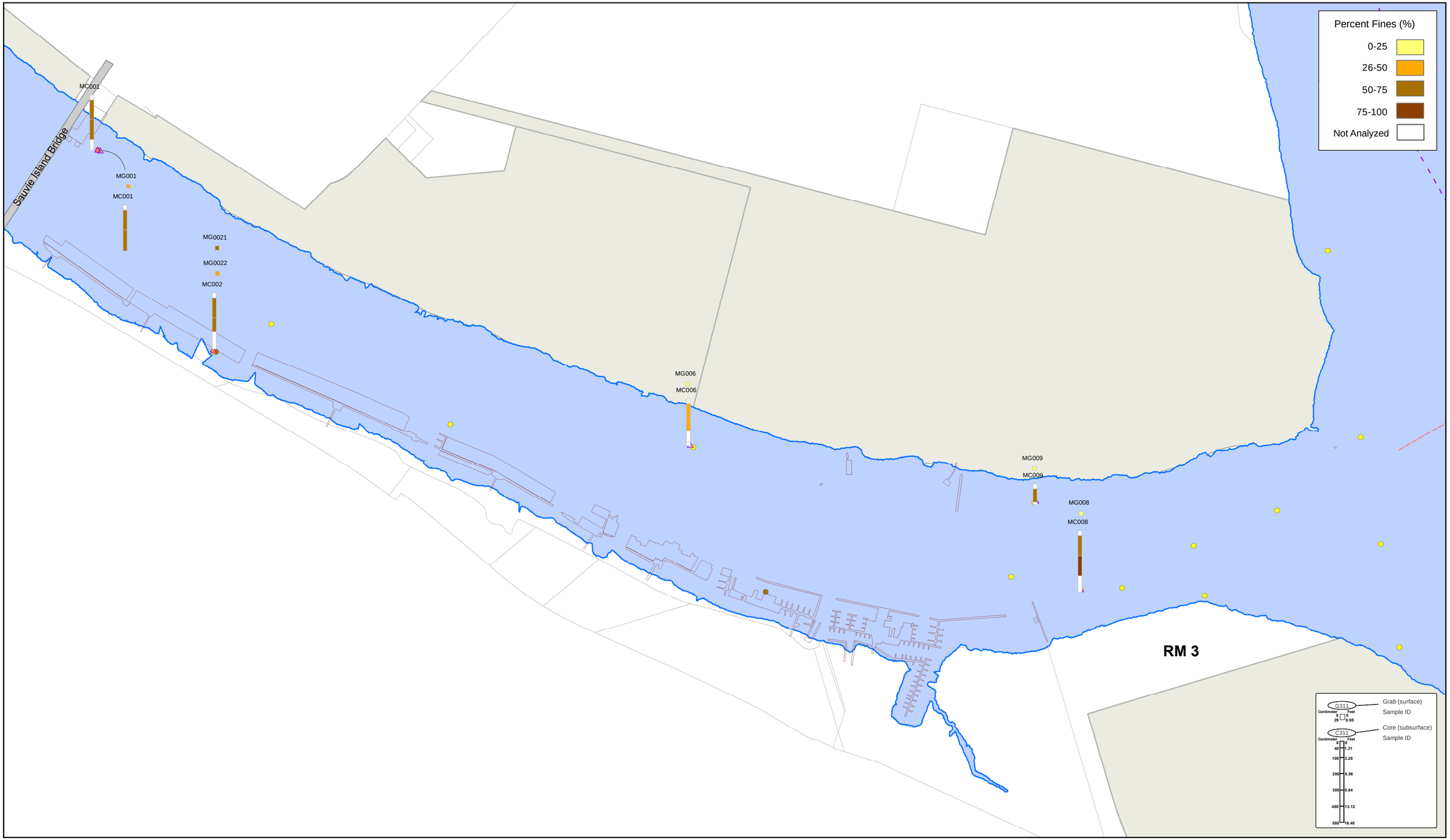
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 02 to 03



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

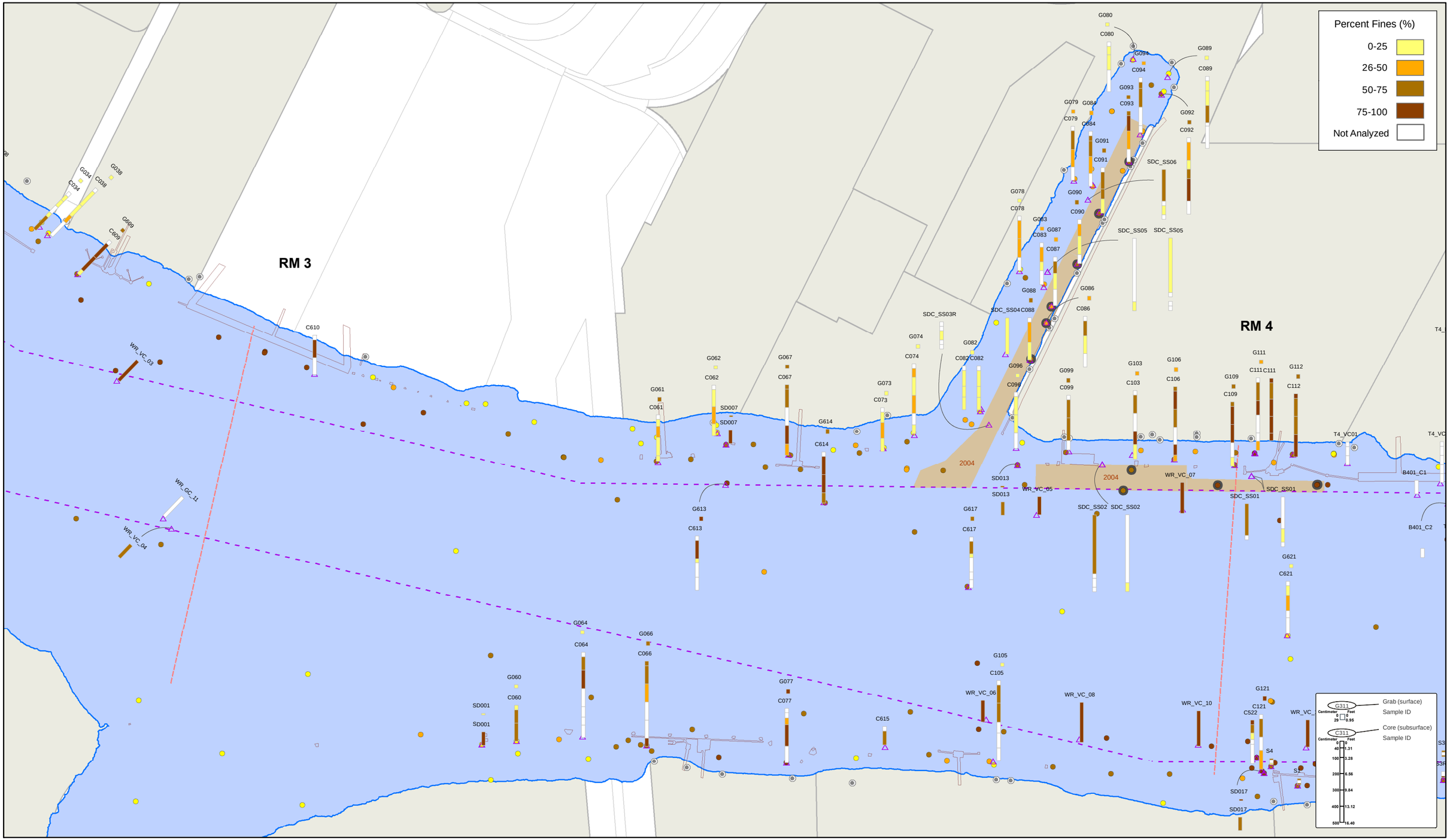
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 03 - Multnomah Channel

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-43_Cores_Fines_Main.mxd) - 3/24/2009 -- 8:13:27 AM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

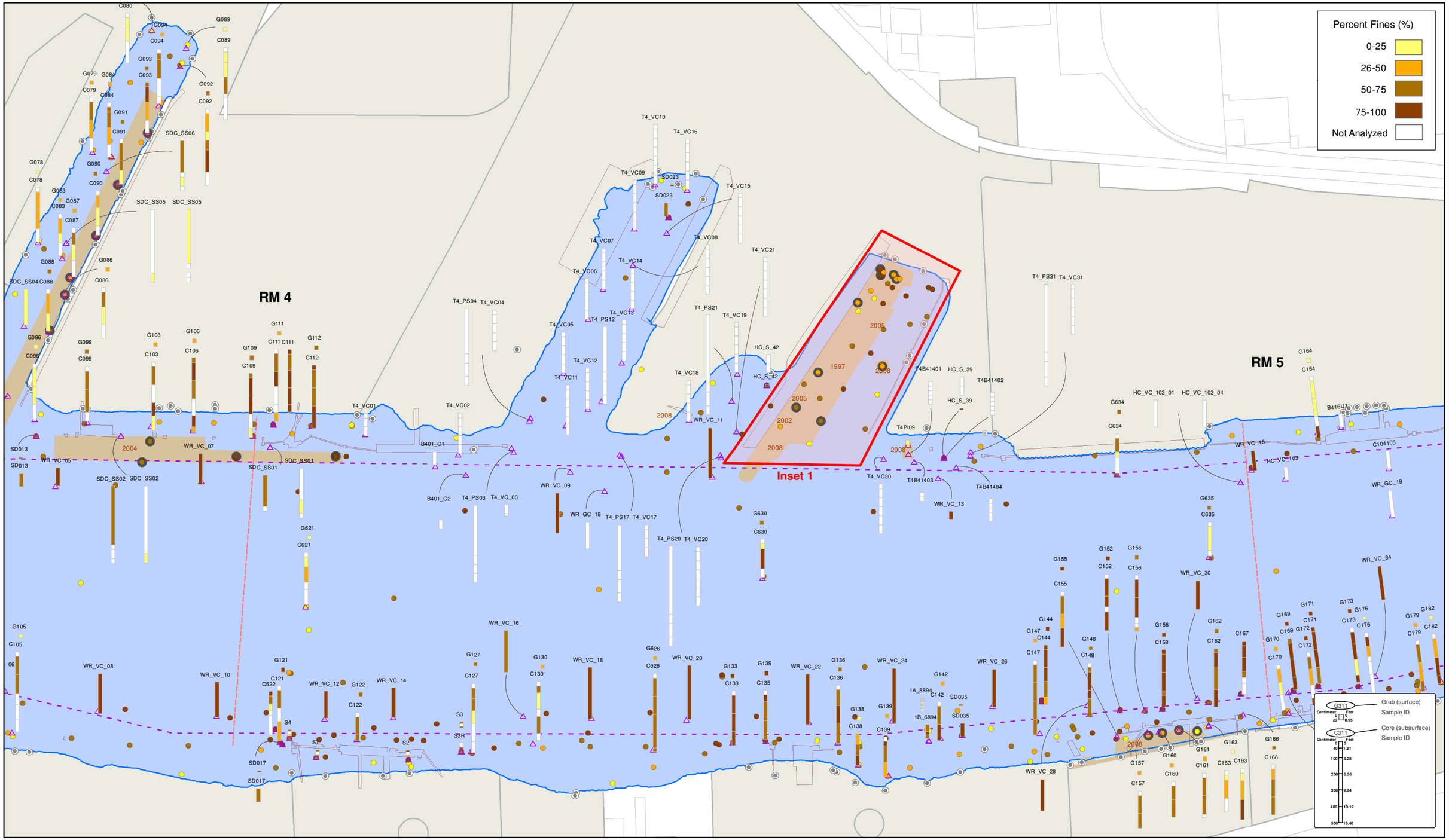
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 03 to 04

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-42_Cores_Fines_Main.mxd) 7/1/2009 -- 12:52:17 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

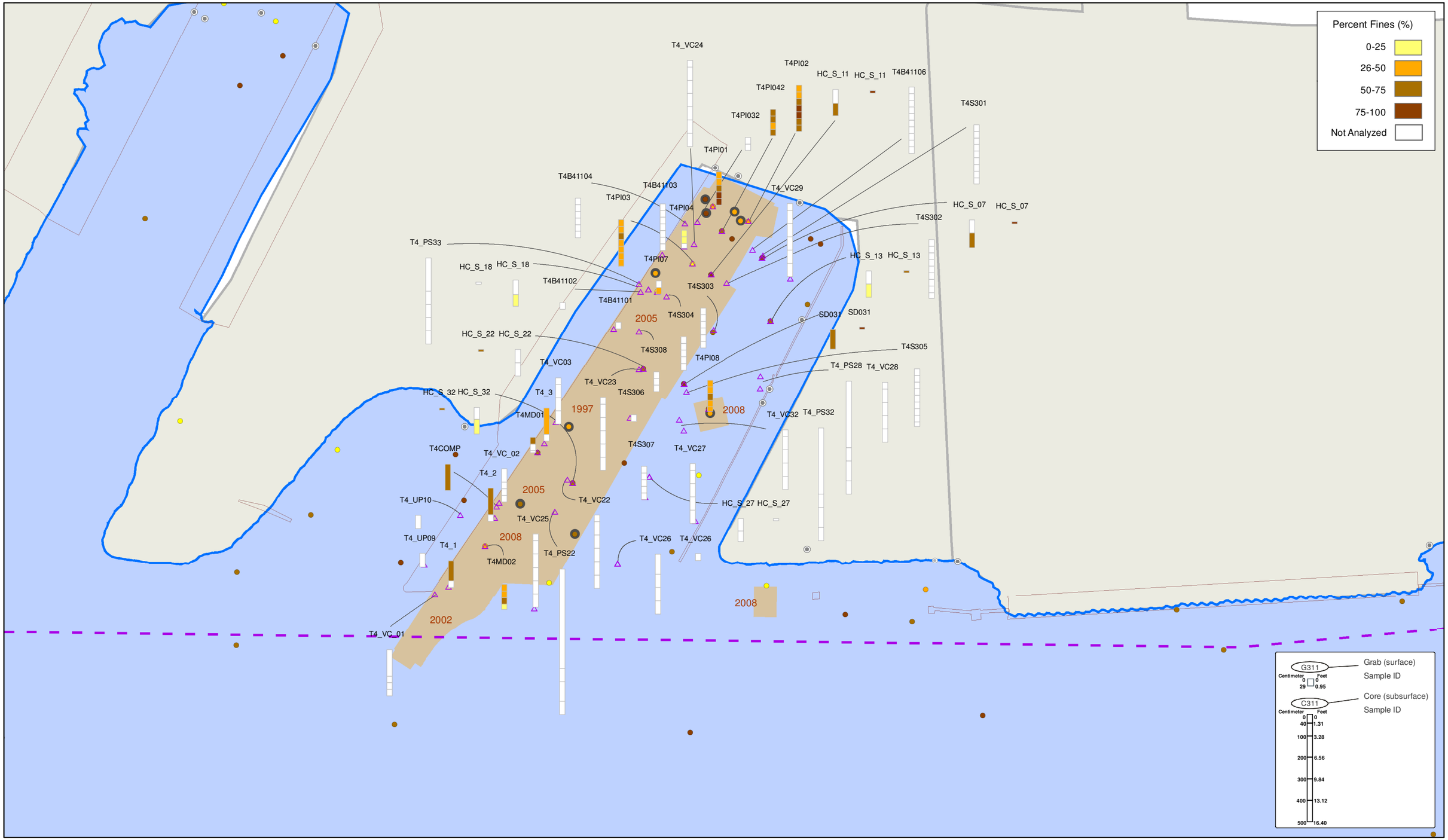
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 04 to 05 - Slips

Map Document: (P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\Revised_CorePlots\2009-06-25_Sec5.1_Map D.1-42_Cores_Fines_Insets.mxd) 7/1/2009 -- 12:51:40 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

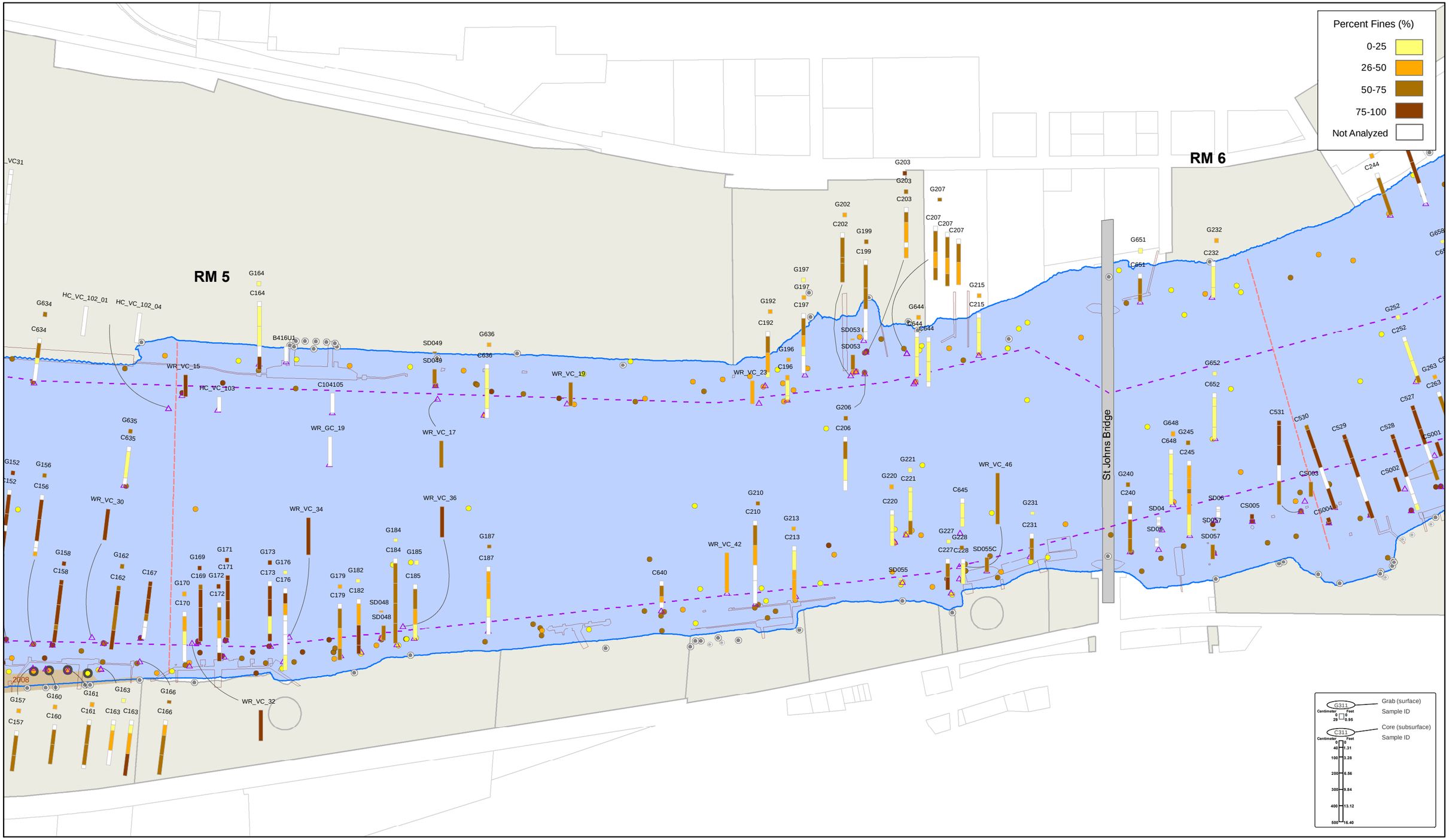
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 04 to 05 - Slips - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

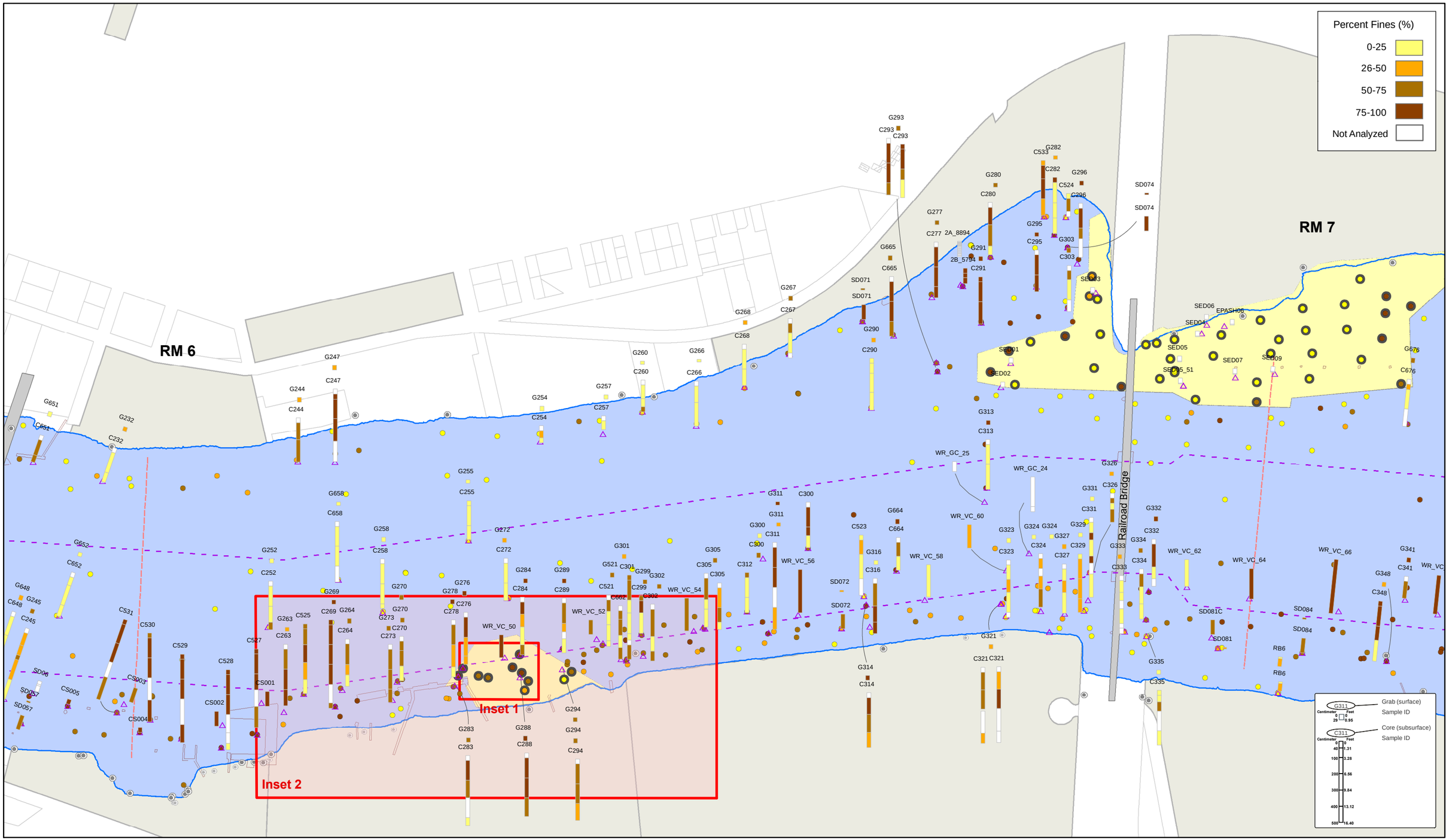
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74 f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 05 to 06



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

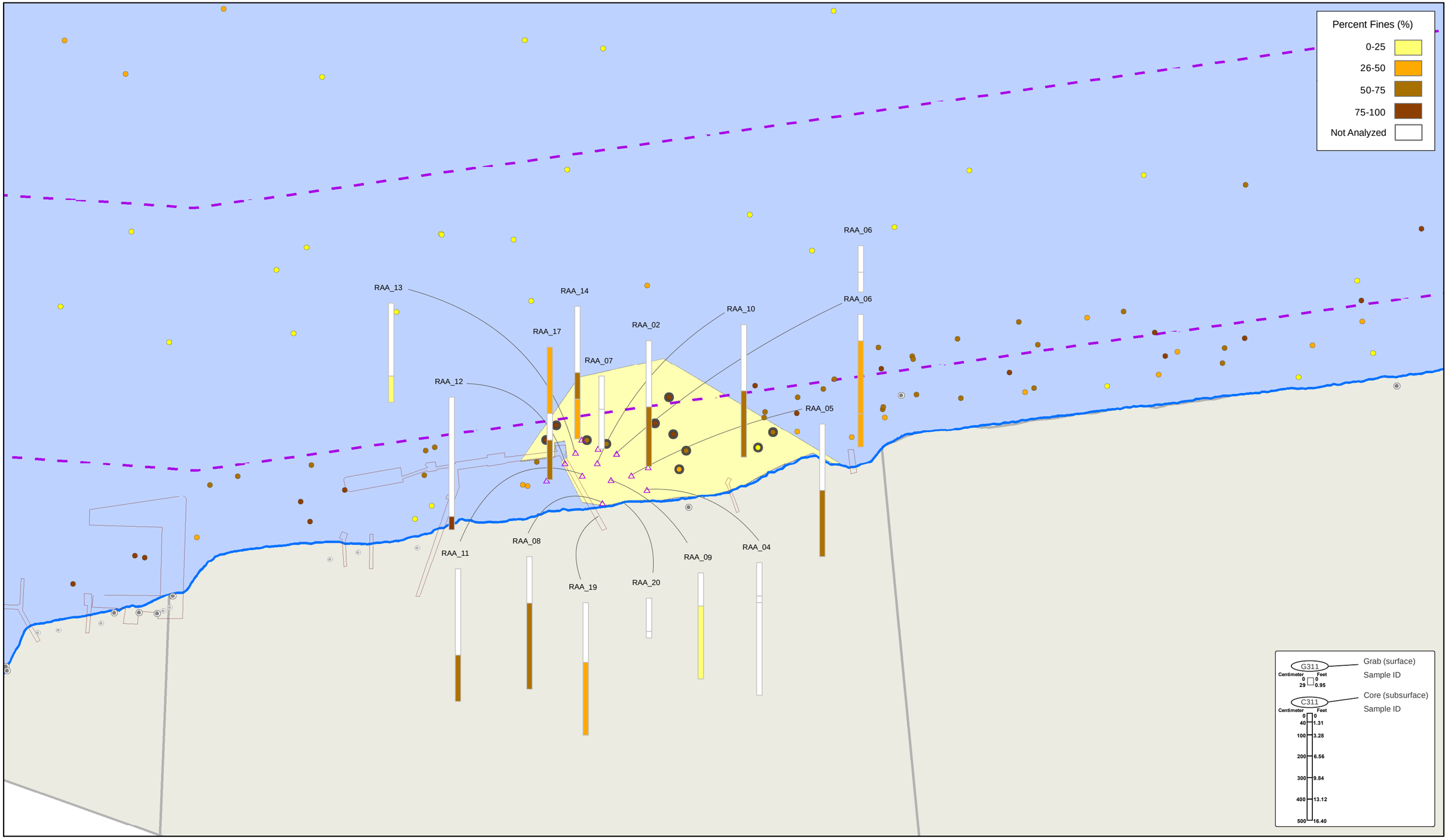
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 06 to 07



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-43_Cores_Fines_Insets.mxd) - 3/12/2009 -- 1:09:51 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

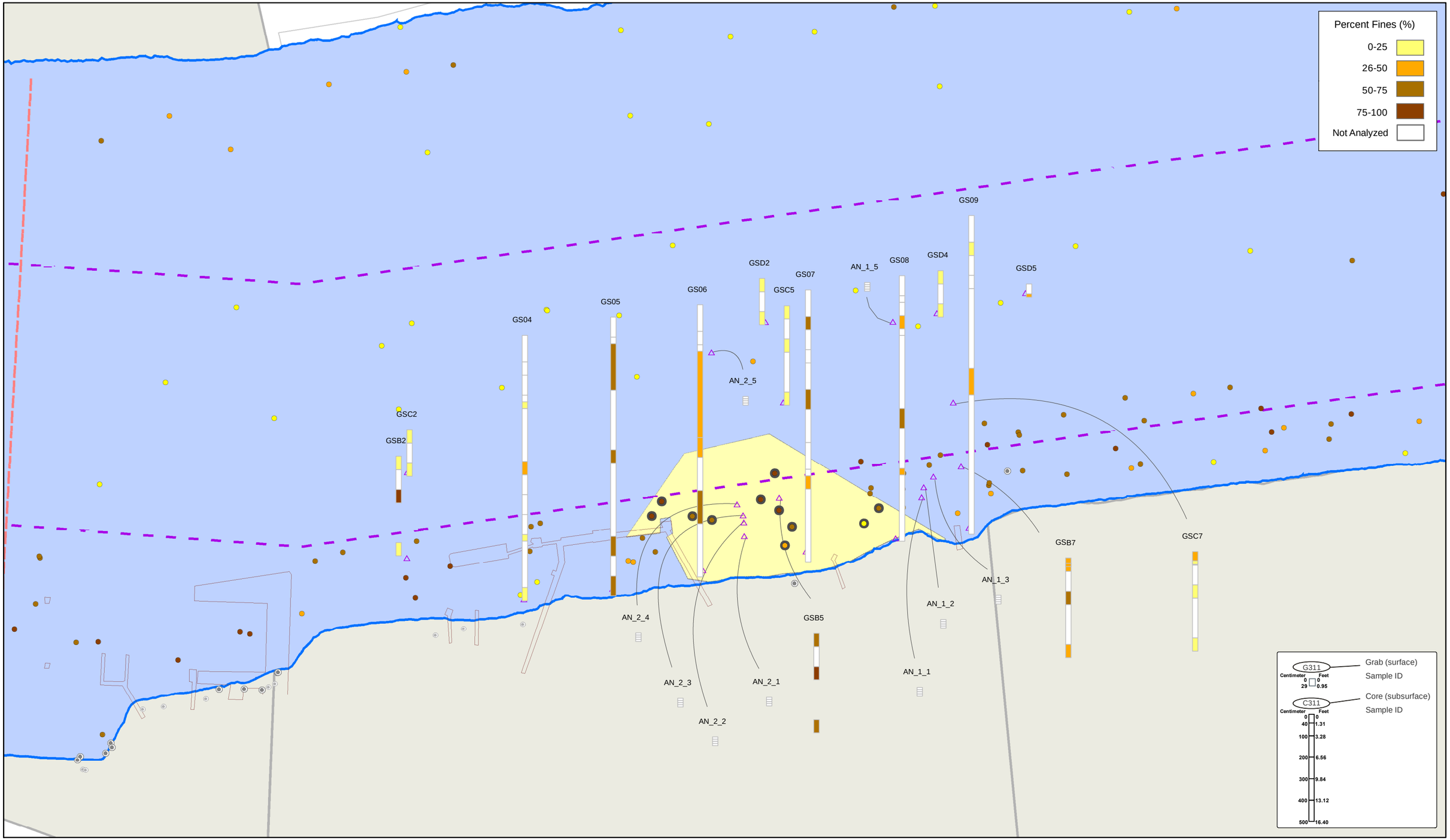
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 06 to 07 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

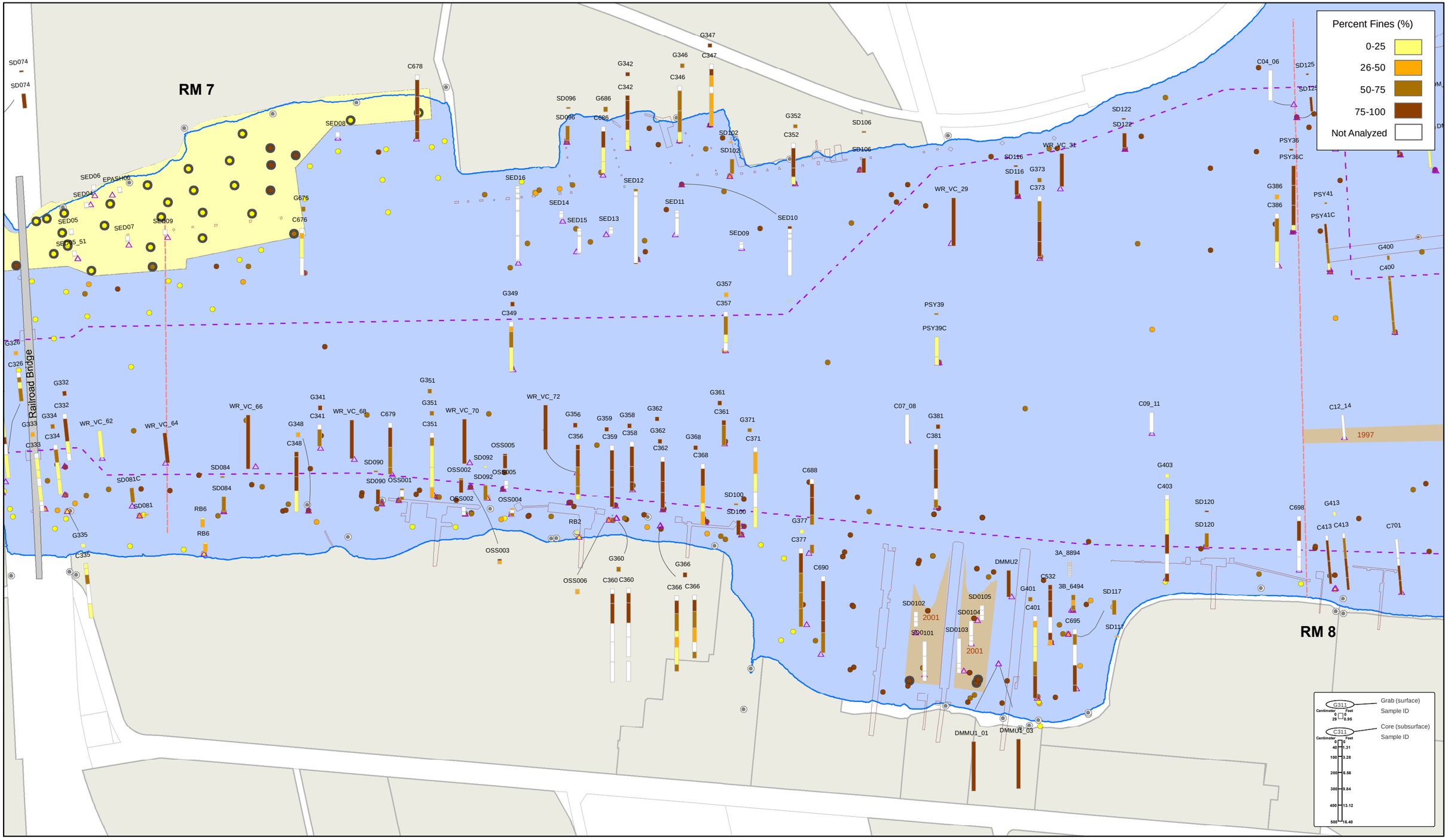
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74 g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 06 to 07 - Inset 2



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-43_Cores_Fines_Main.mxd) - 3/24/2009 -- 8:13:27 AM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

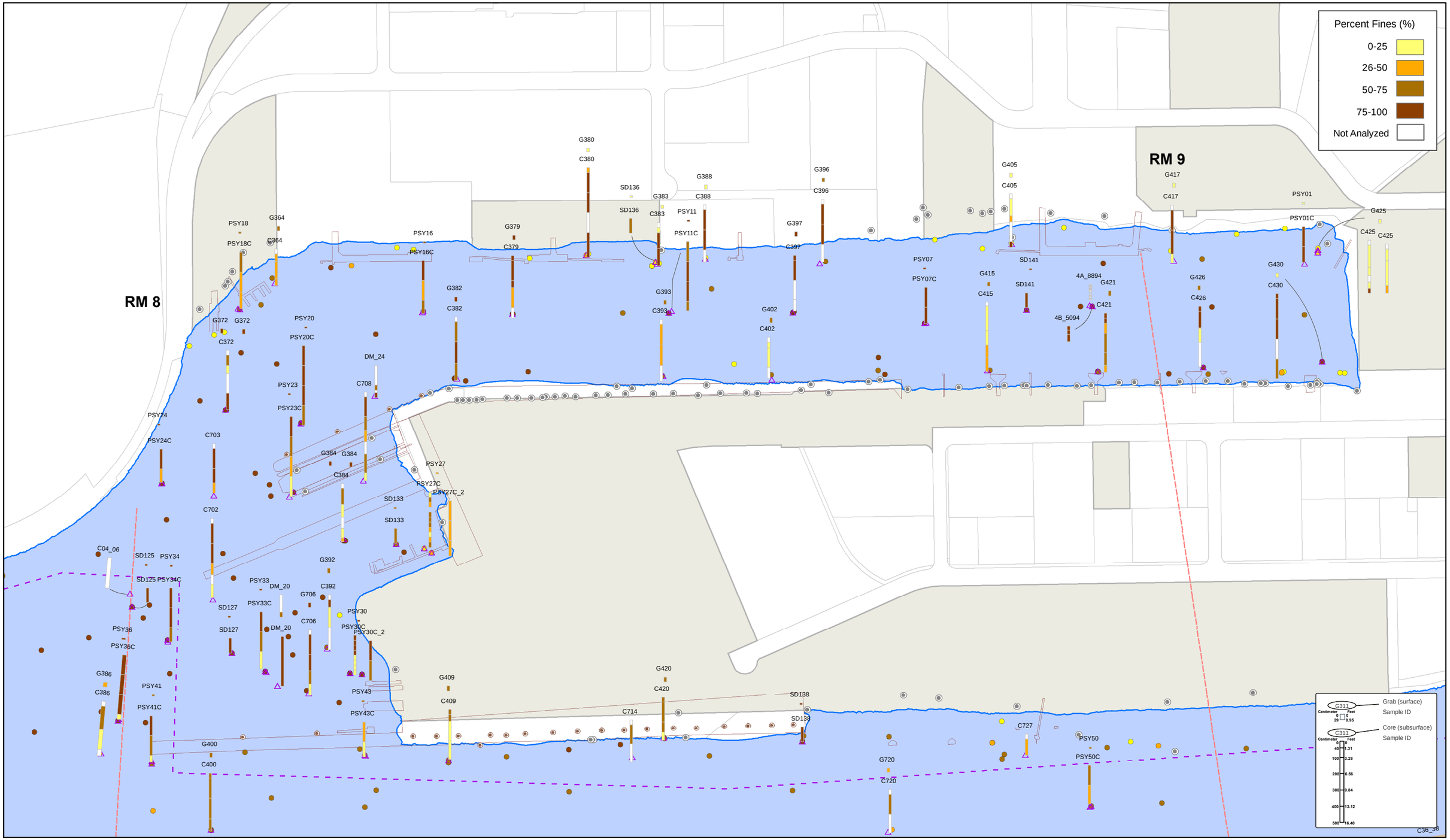
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 07 to 08



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

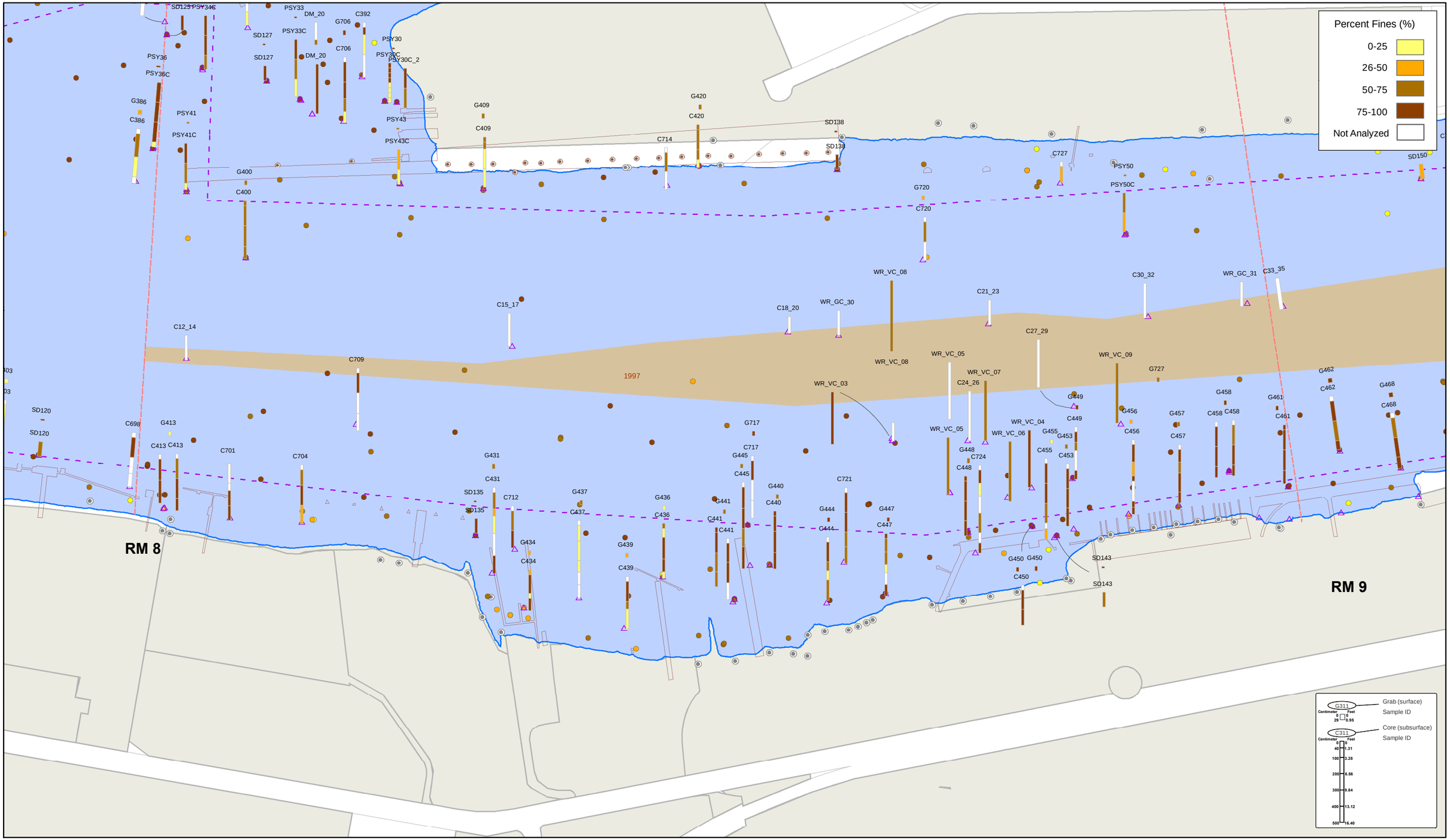
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 08 to 09 - Swan Is. East



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

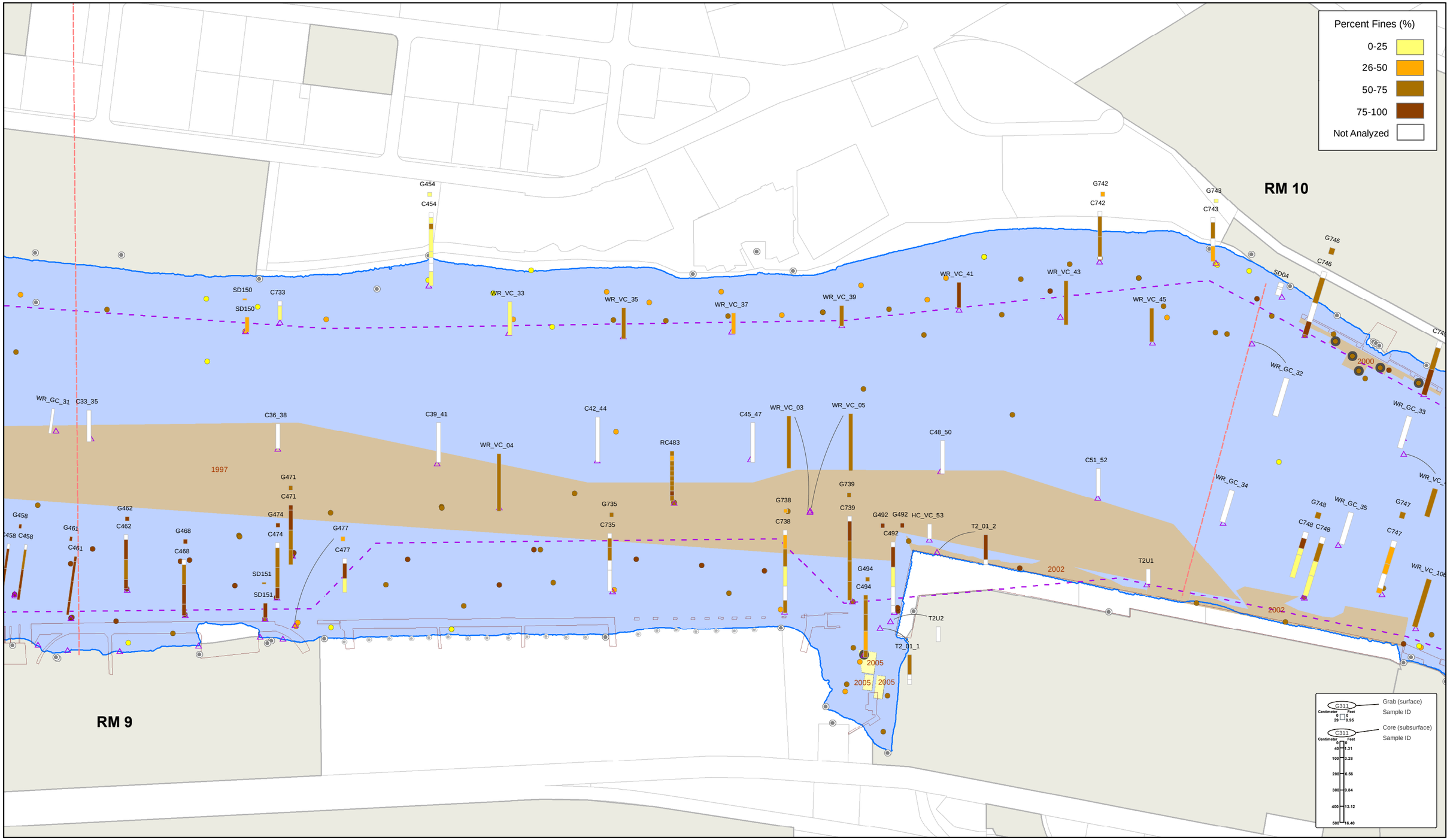
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 08 to 09 - Swan Is. West



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-43_Cores_Fines_Main.mxd) - 3/24/2009 -- 8:13:27 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

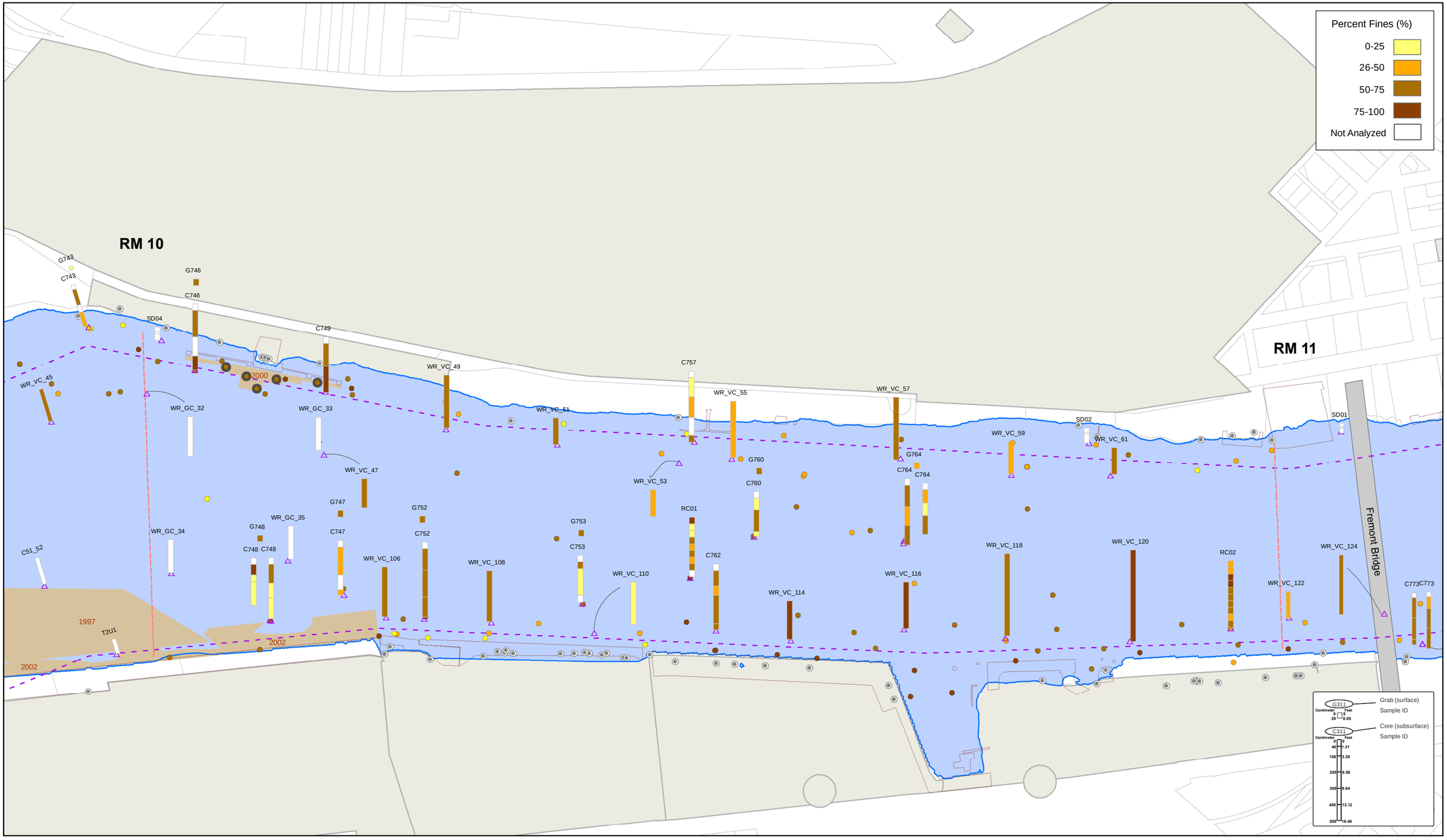
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 09 to 10



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FEATURE SOURCES:
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Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

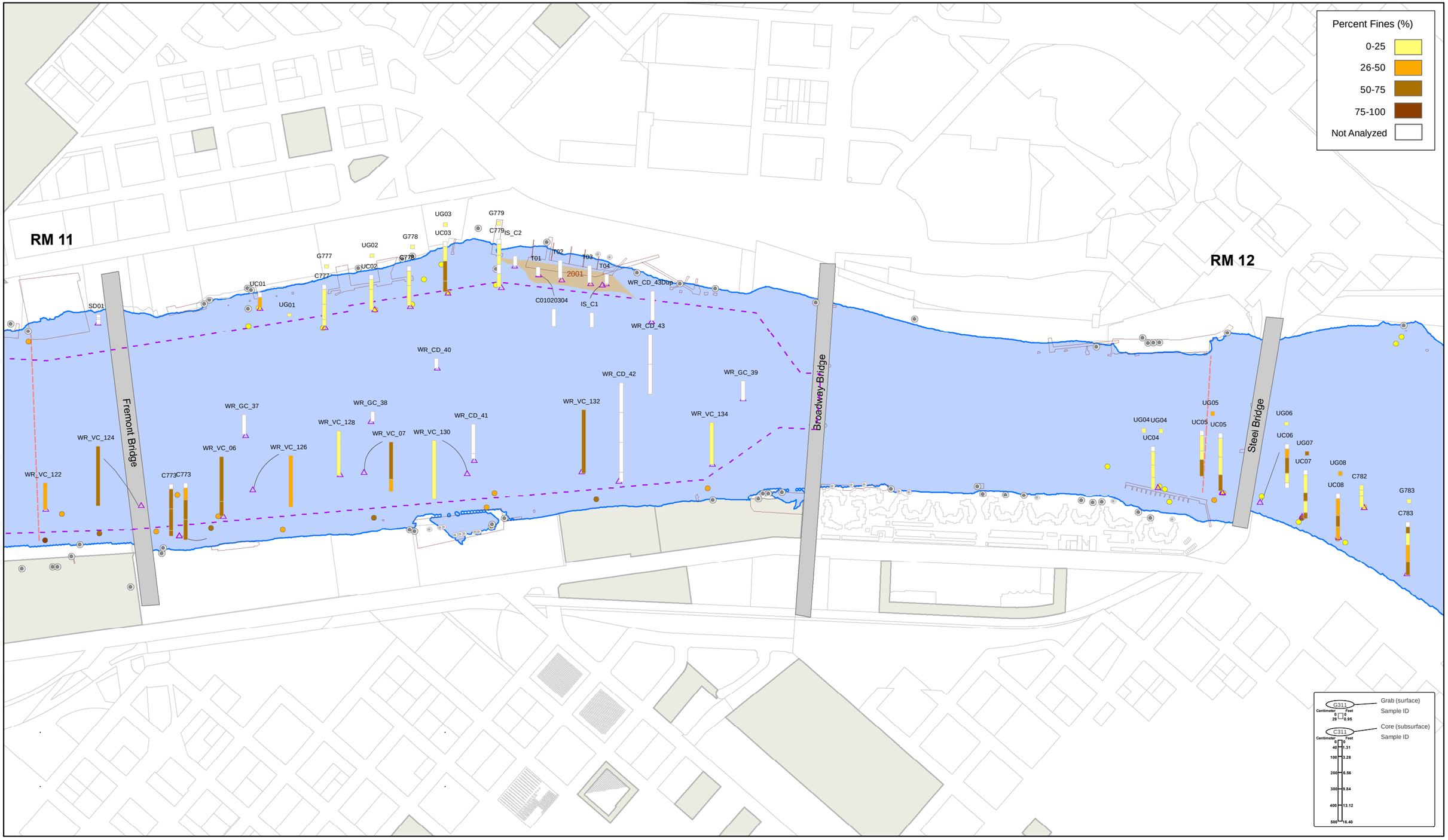
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74I

Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 10 to 11



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-43_Cores_Fines_Main.mxd) - 3/24/2009 -- 8:13:27 AM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

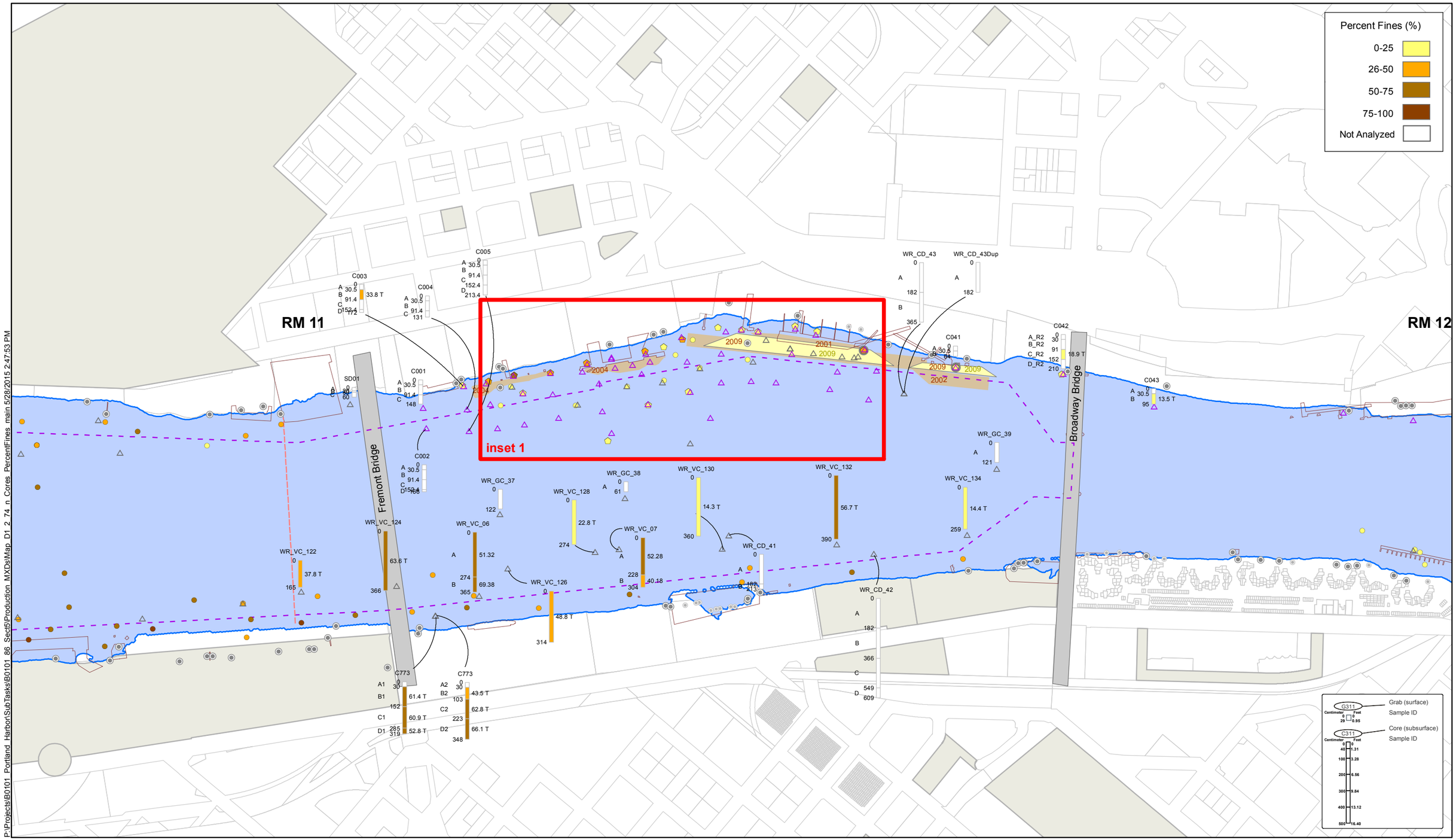
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 11 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

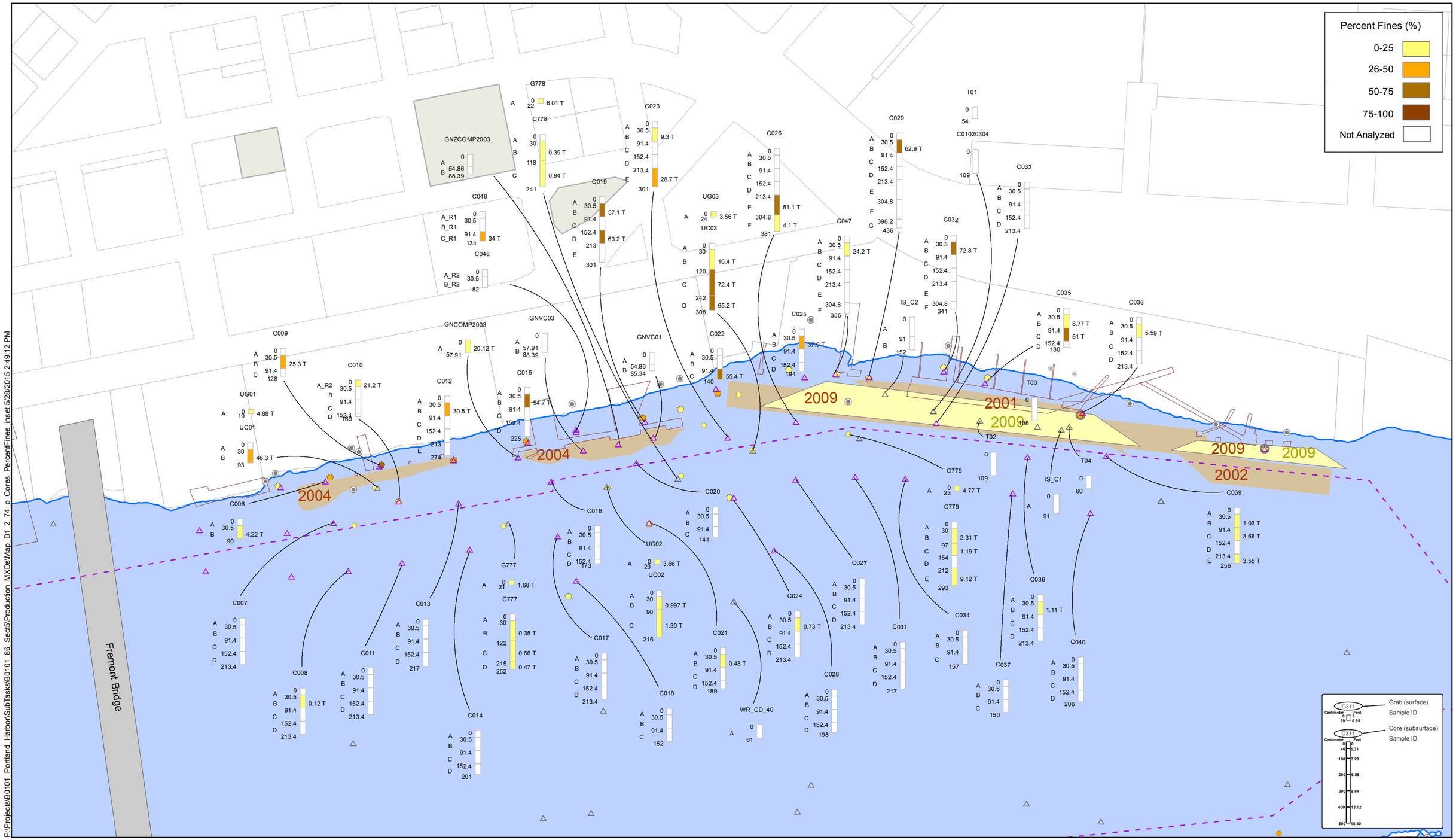
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)

- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-74n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 11.0 - 11.8

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_74_n_Cores_PercentFines_main 5/28/2015 2:47:53 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

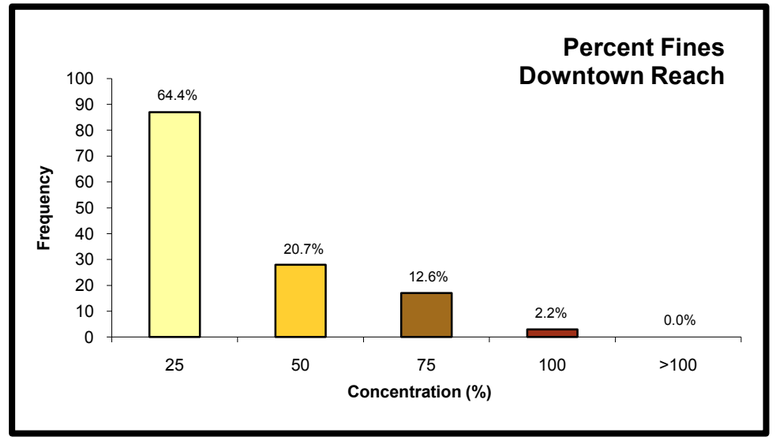
Outfalls
- Outfall
- Dock Drain
- Roof Drain

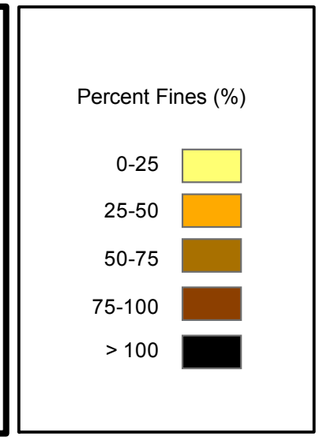
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

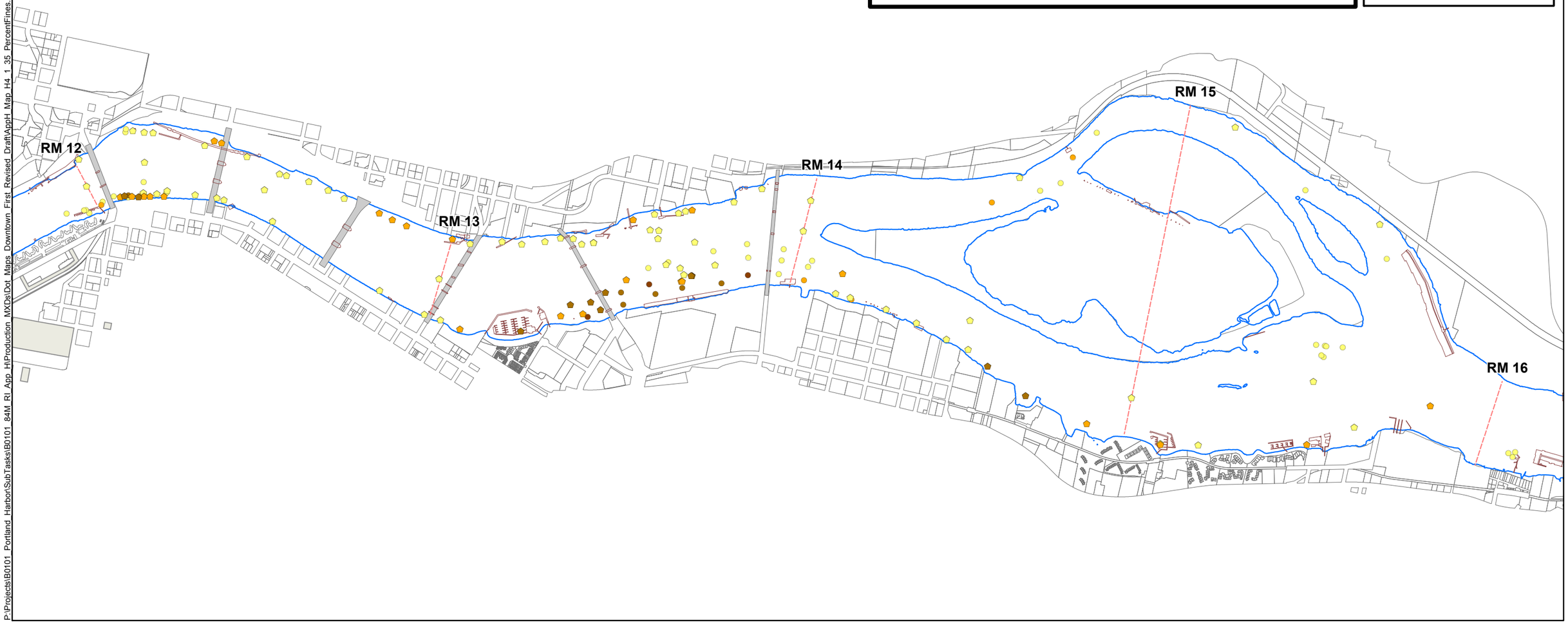
Map D1.2-74o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Percent Fines (%)

River Mile 11.0 - 11.8 - Inset 1

P:\Projects\B0101_Portland_Harbor\SubTasks\B0101_86_Sect5\Production_MXDs\Map_D1_2_74_o_Cores_PercentFines_inset 5/28/2015 2:49:12 PM







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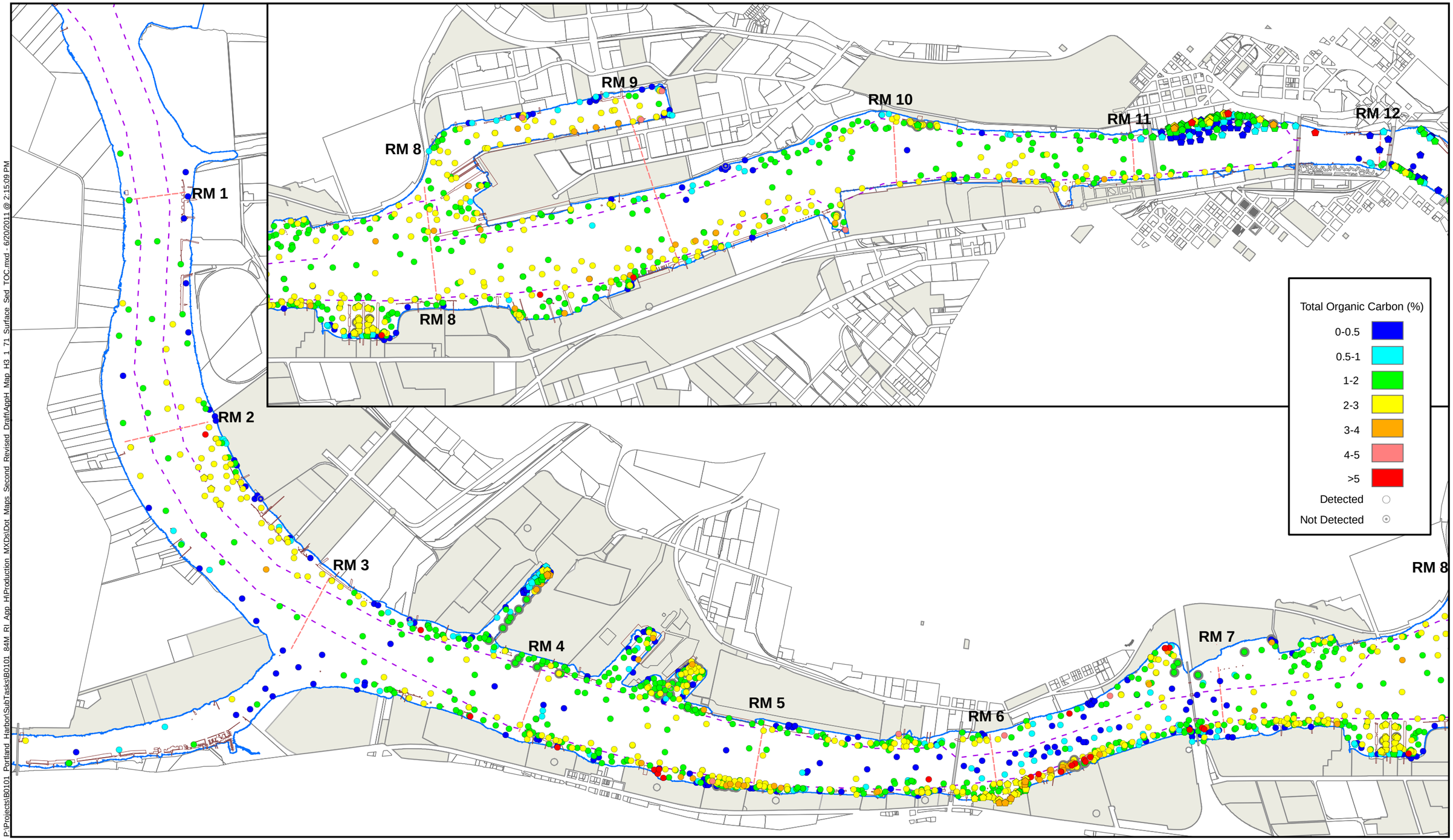
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-75
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Percent Fines (%)
Downtown Reach



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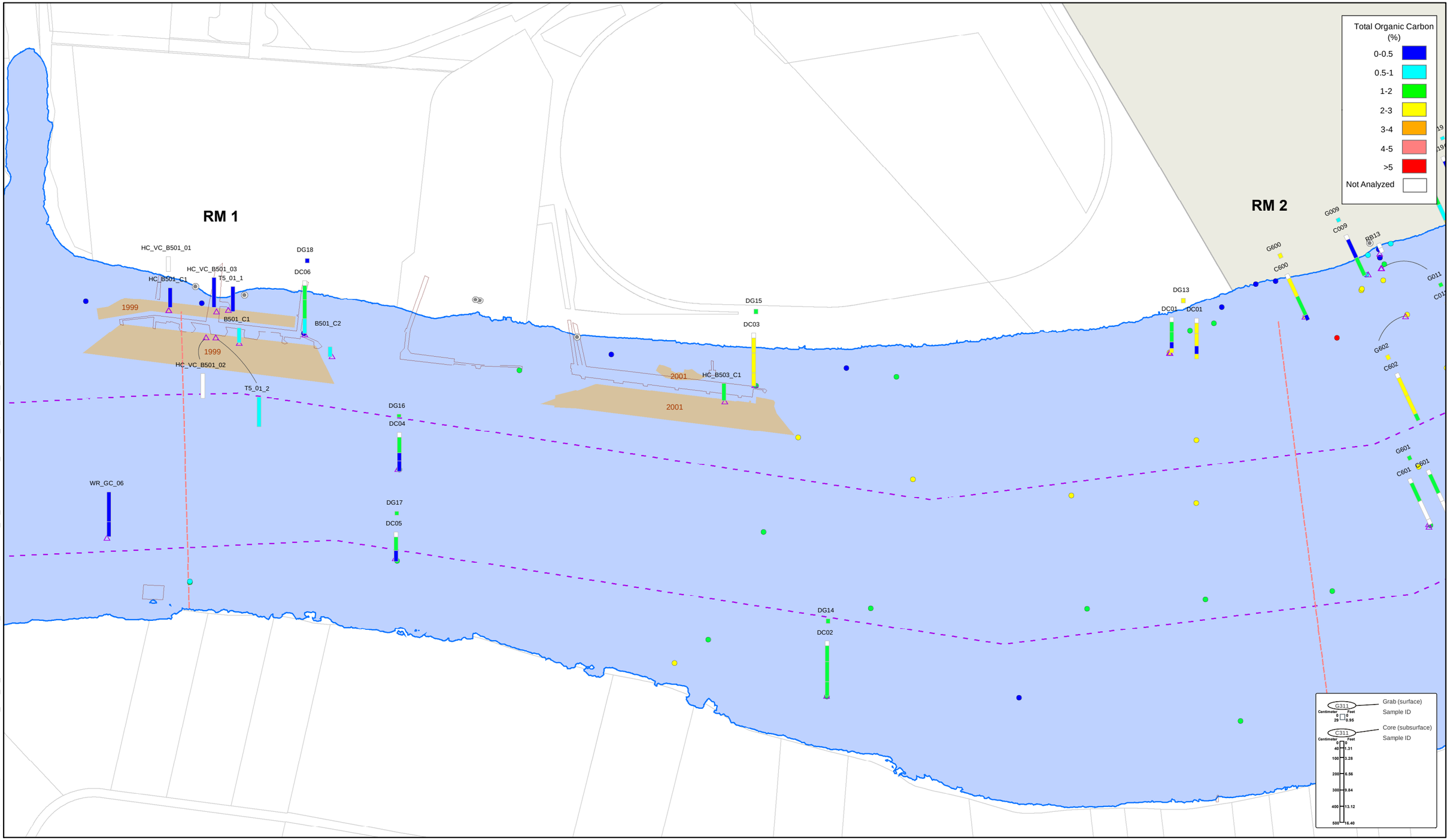
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-76
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Organic Carbon (%)



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

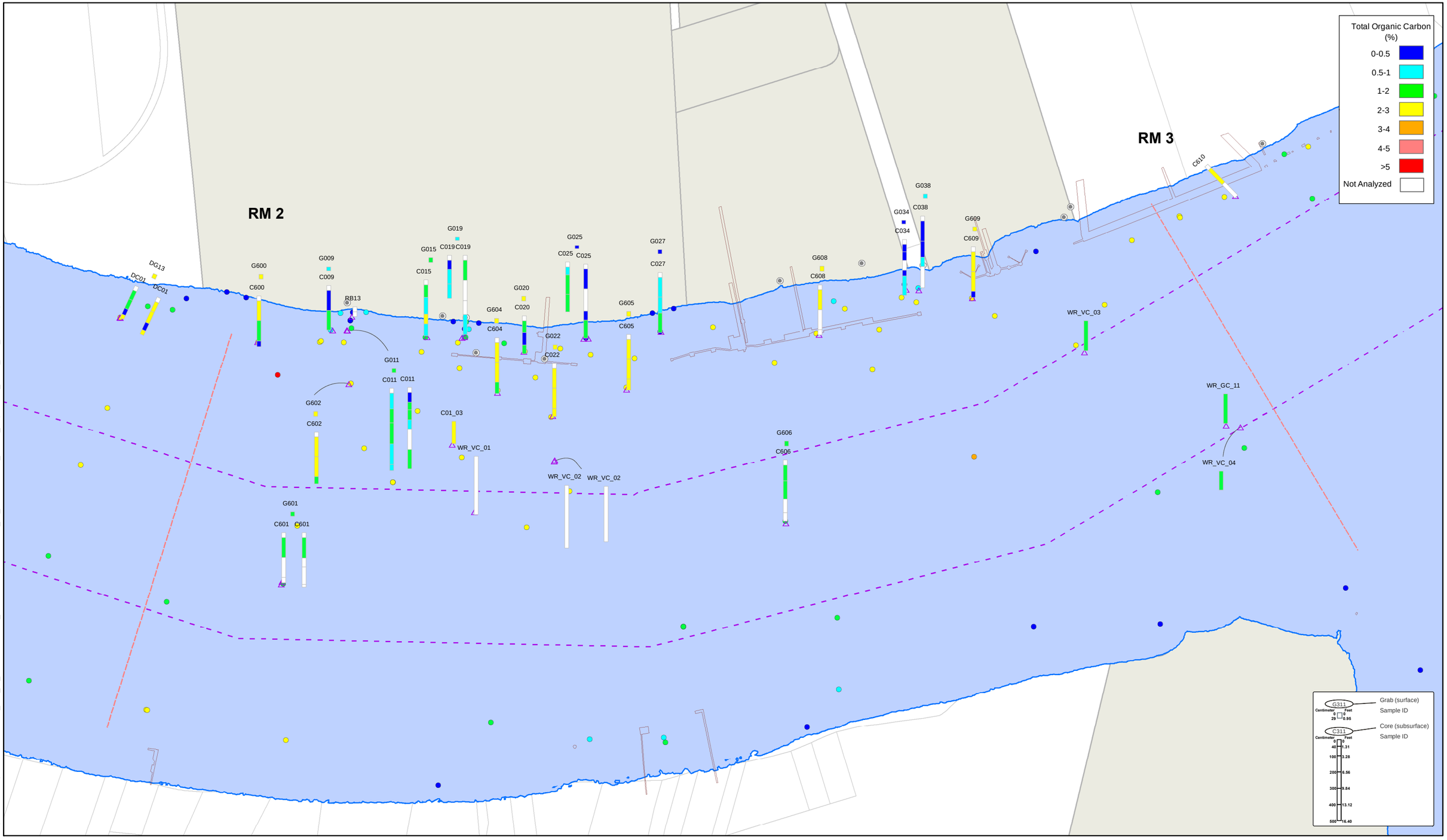
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77a
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 01 to 02



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

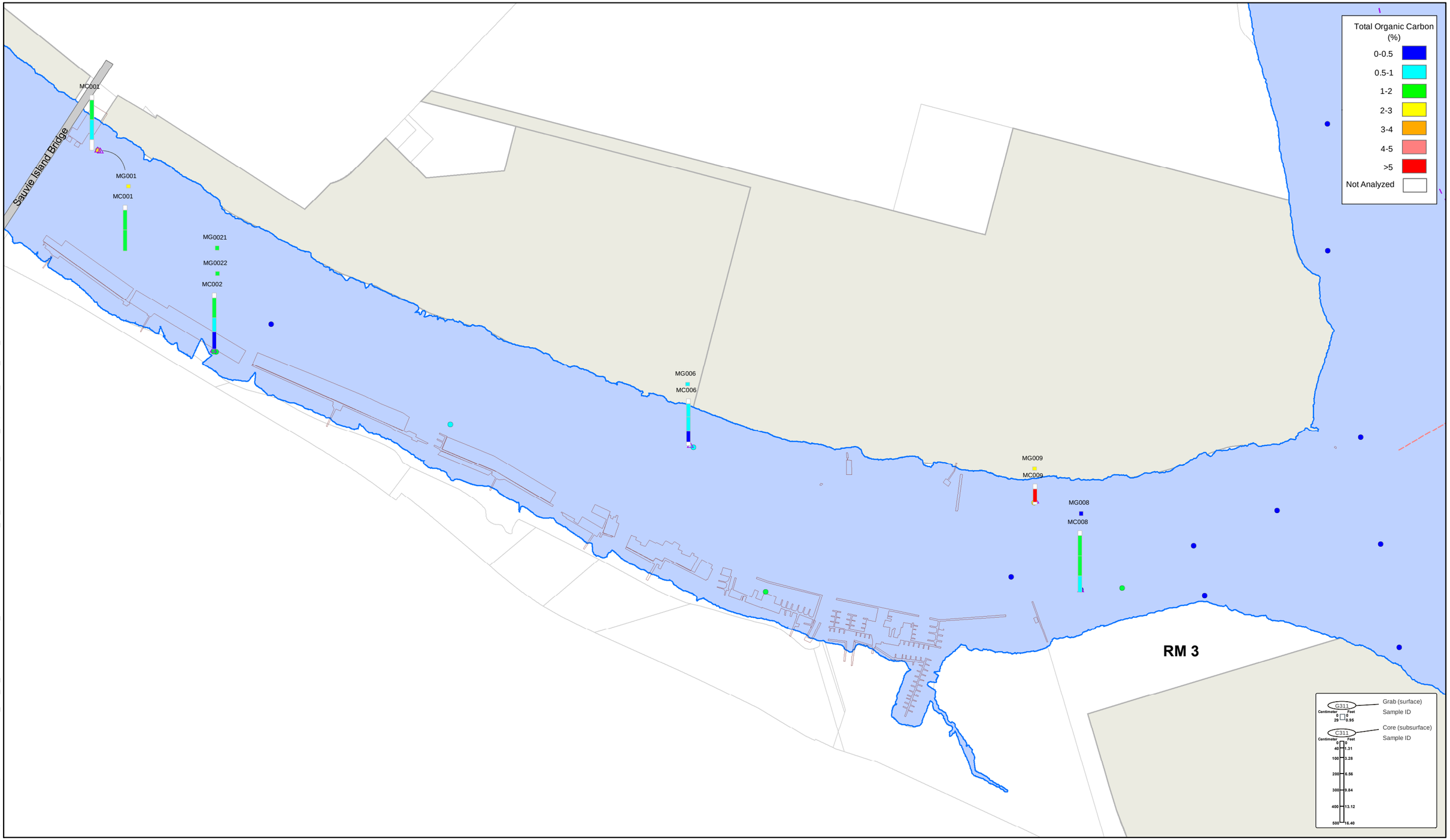
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 b
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 02 to 03



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

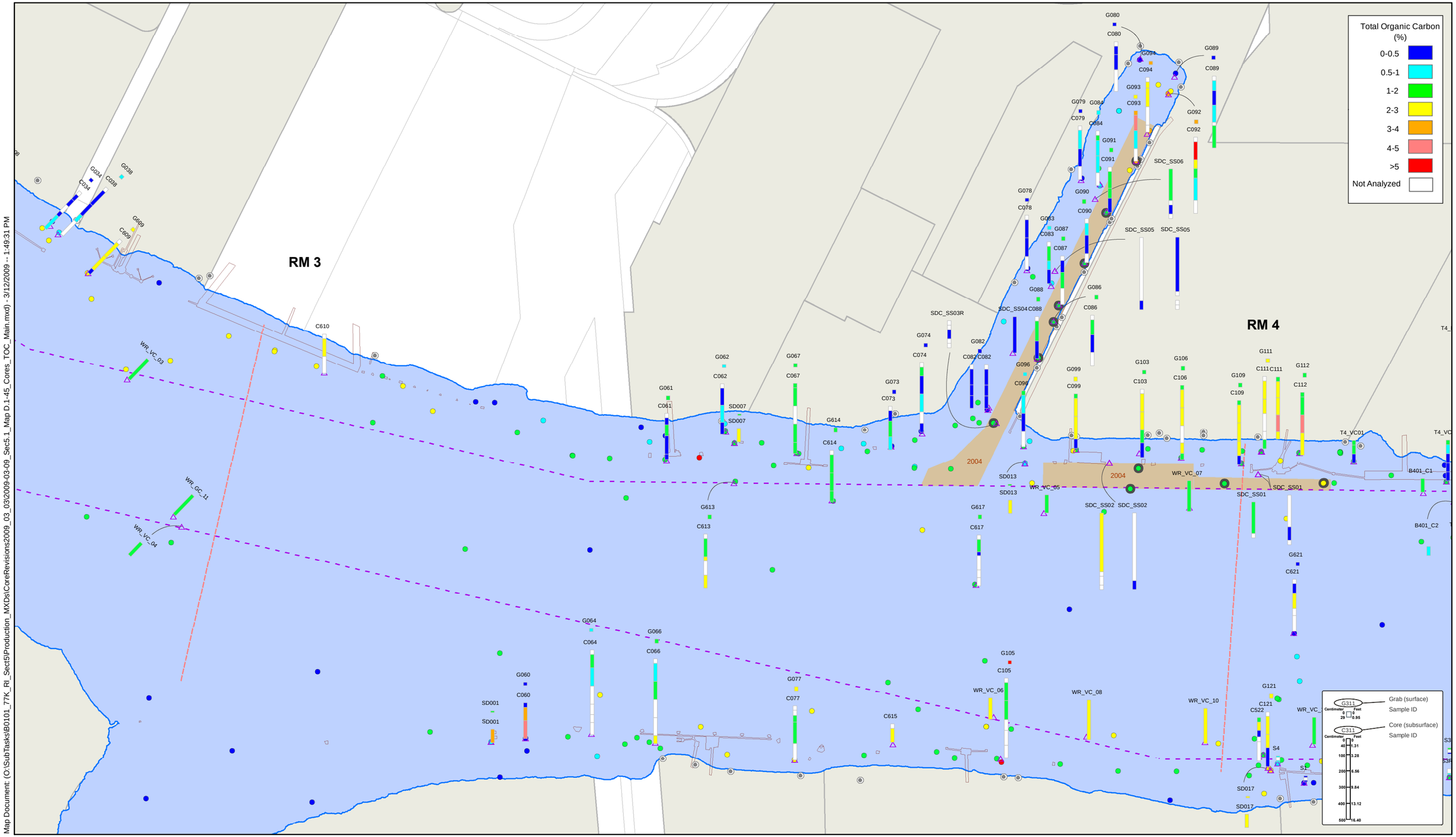
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77c
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 03 - Multnomah Channel



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

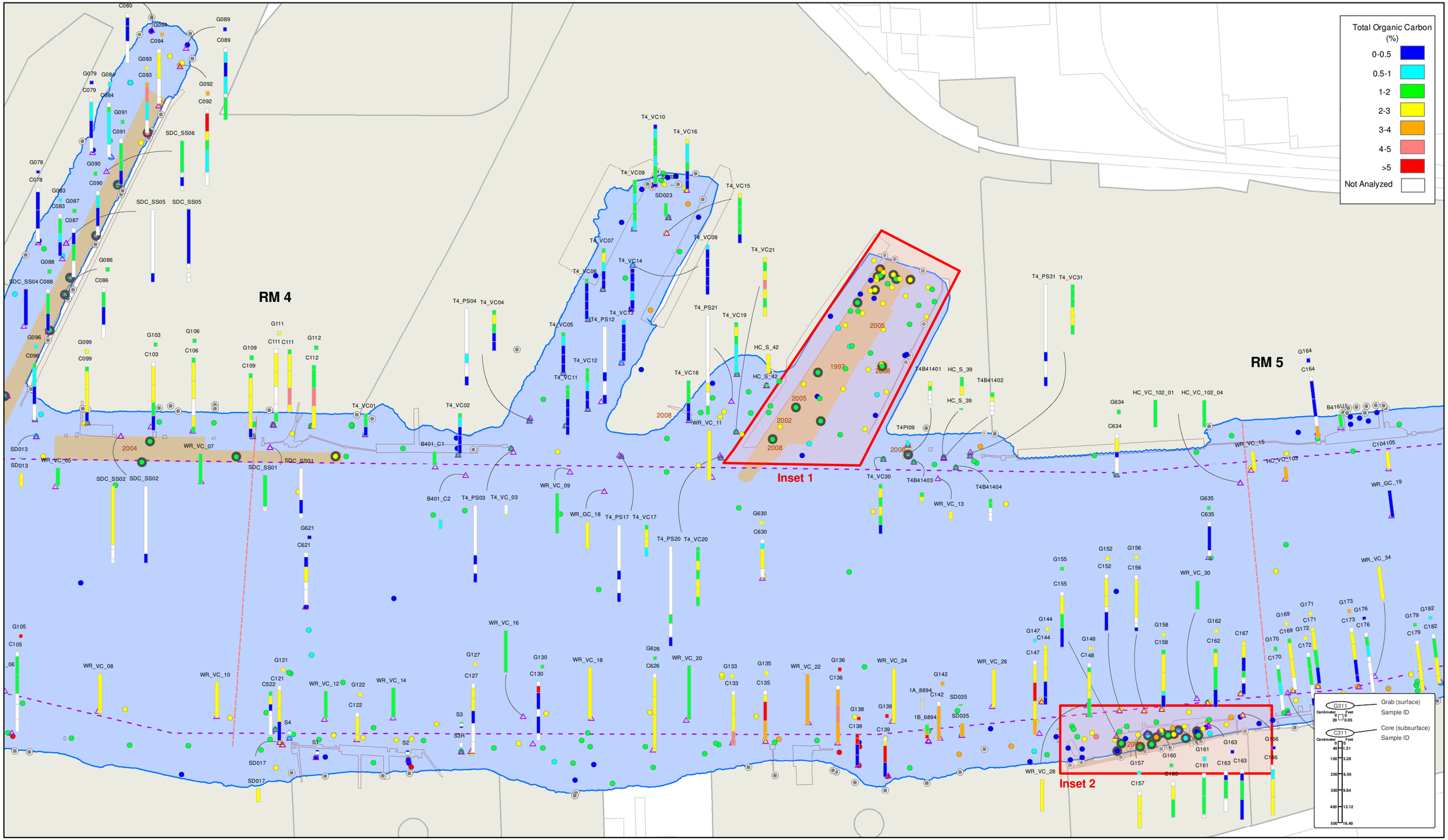
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 d
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 03 to 04



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

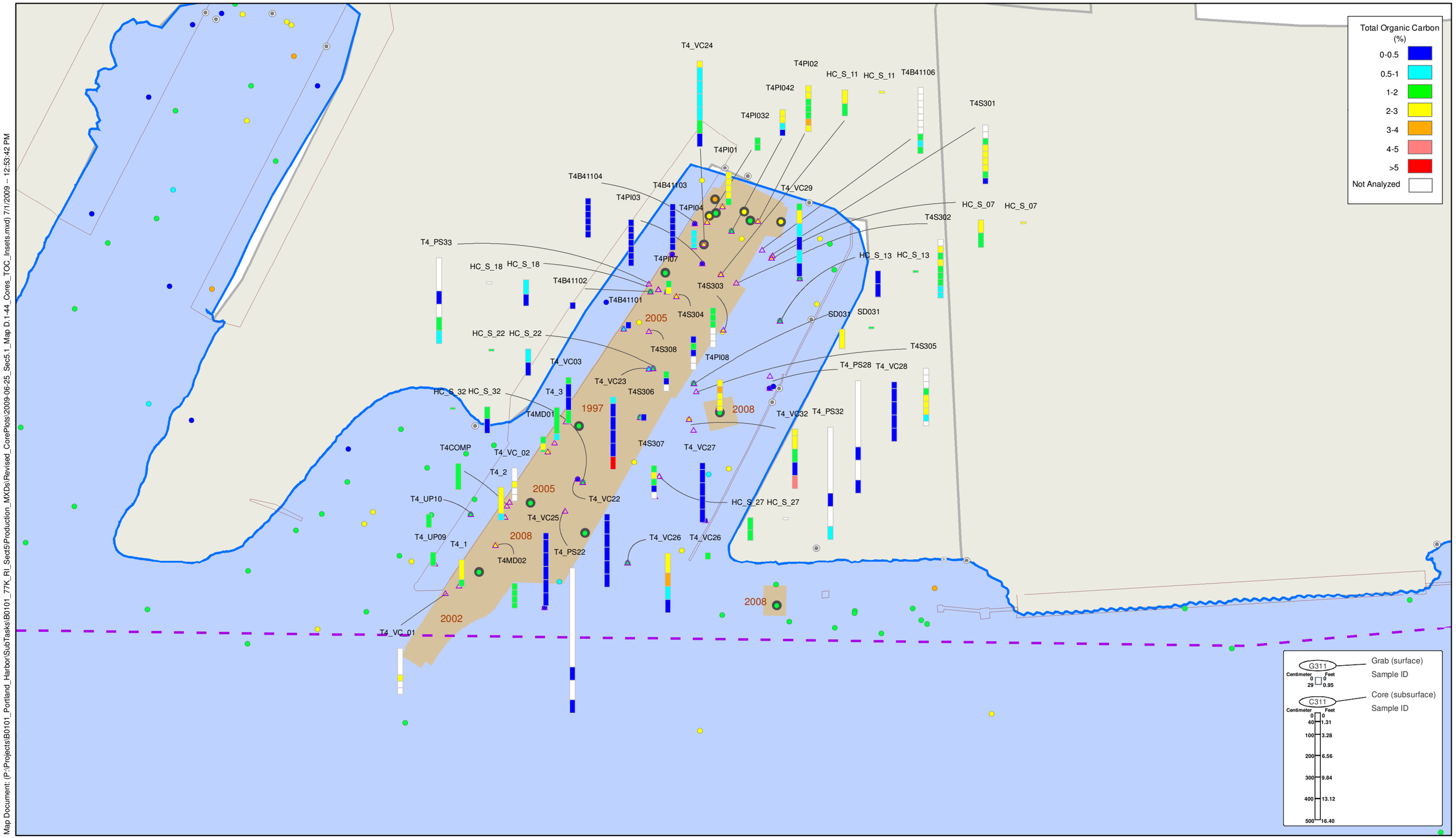
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77e
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 04 to 05 - Slips



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features:

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

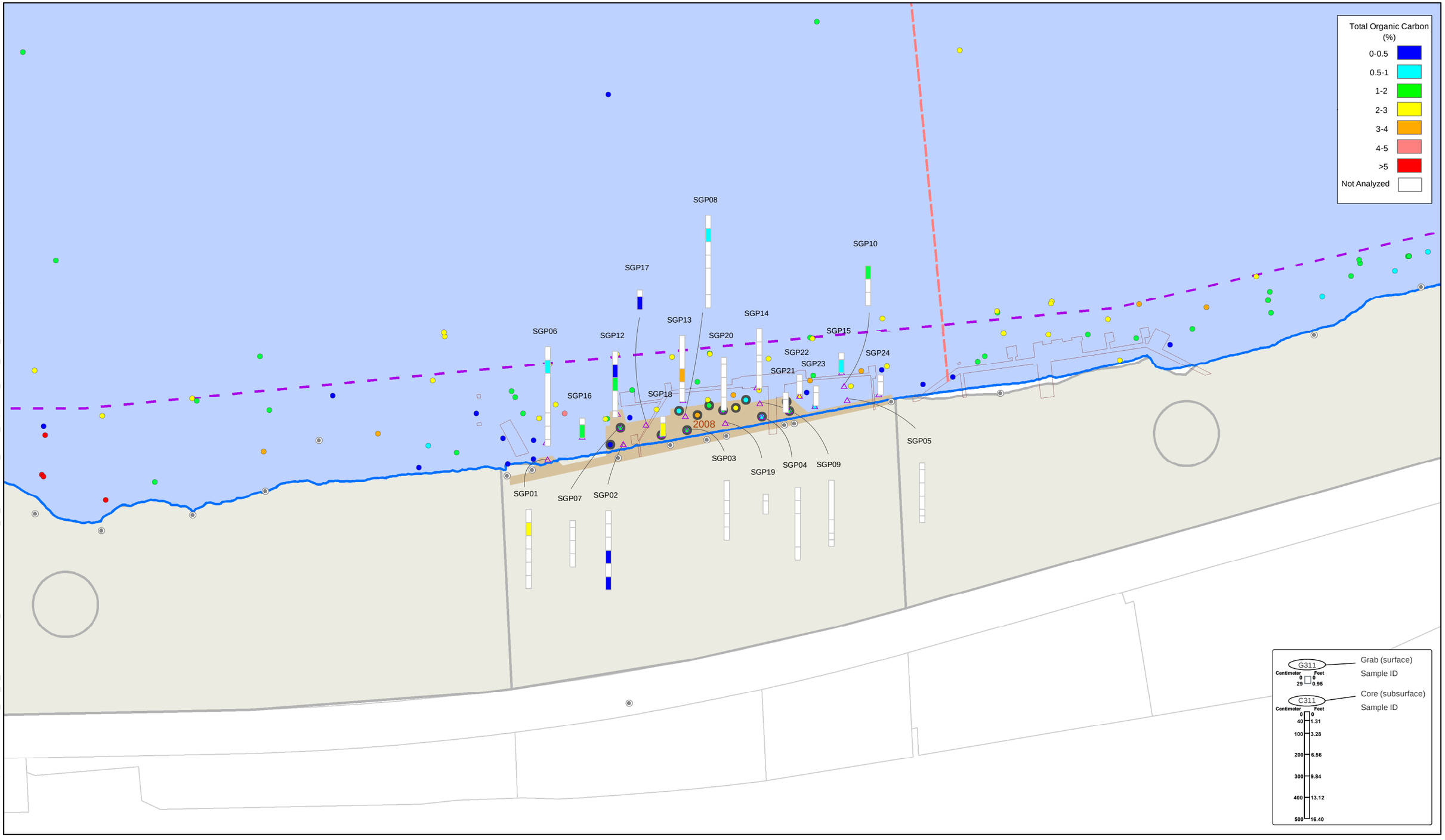
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77e1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 04 to 05 - Slips - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features:

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

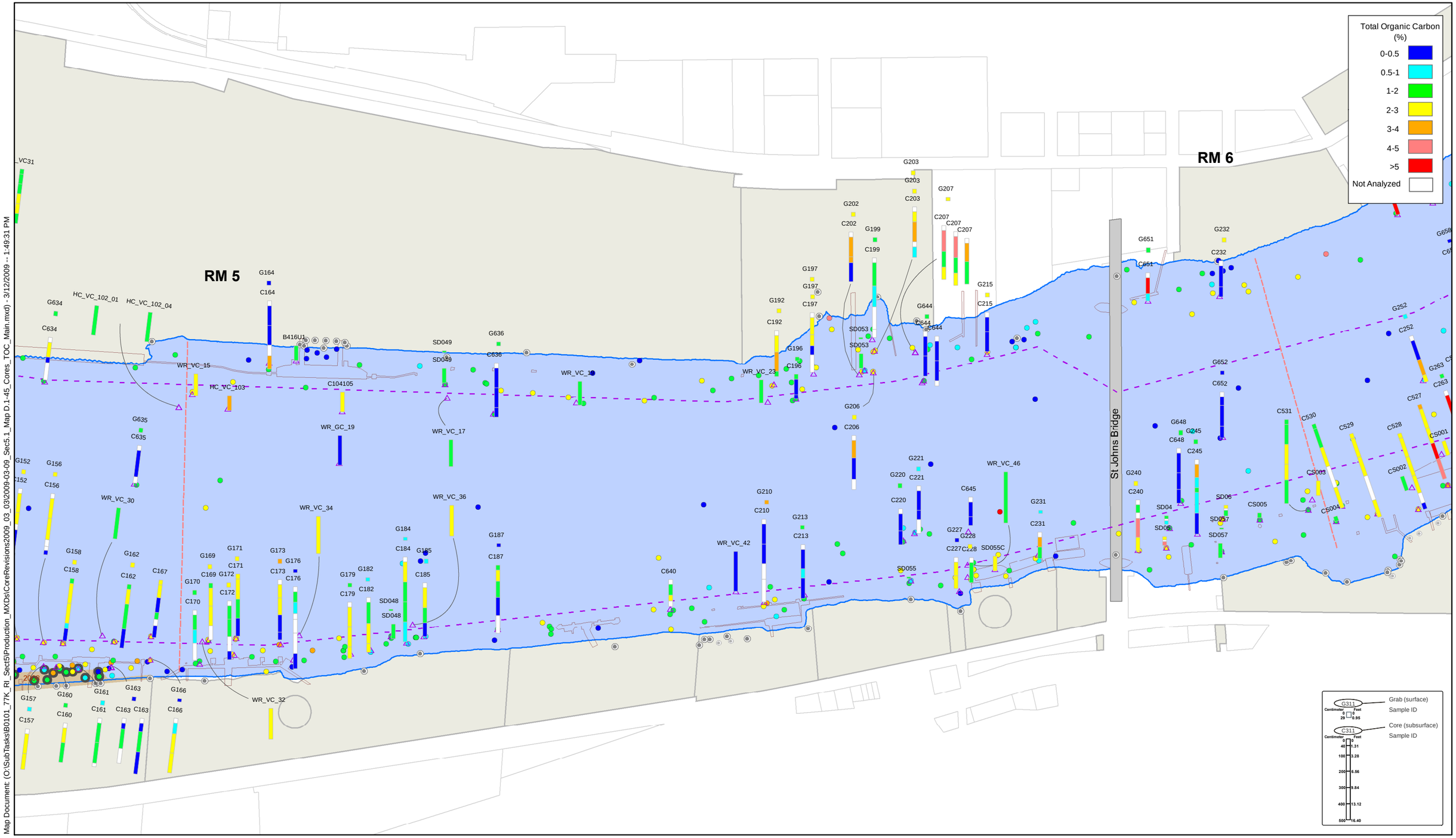
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 e2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 04 to 05 - Slips - Inset 2



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-45_Cores_TOC_Main.mxd) - 3/12/2009 -- 1:49:31 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

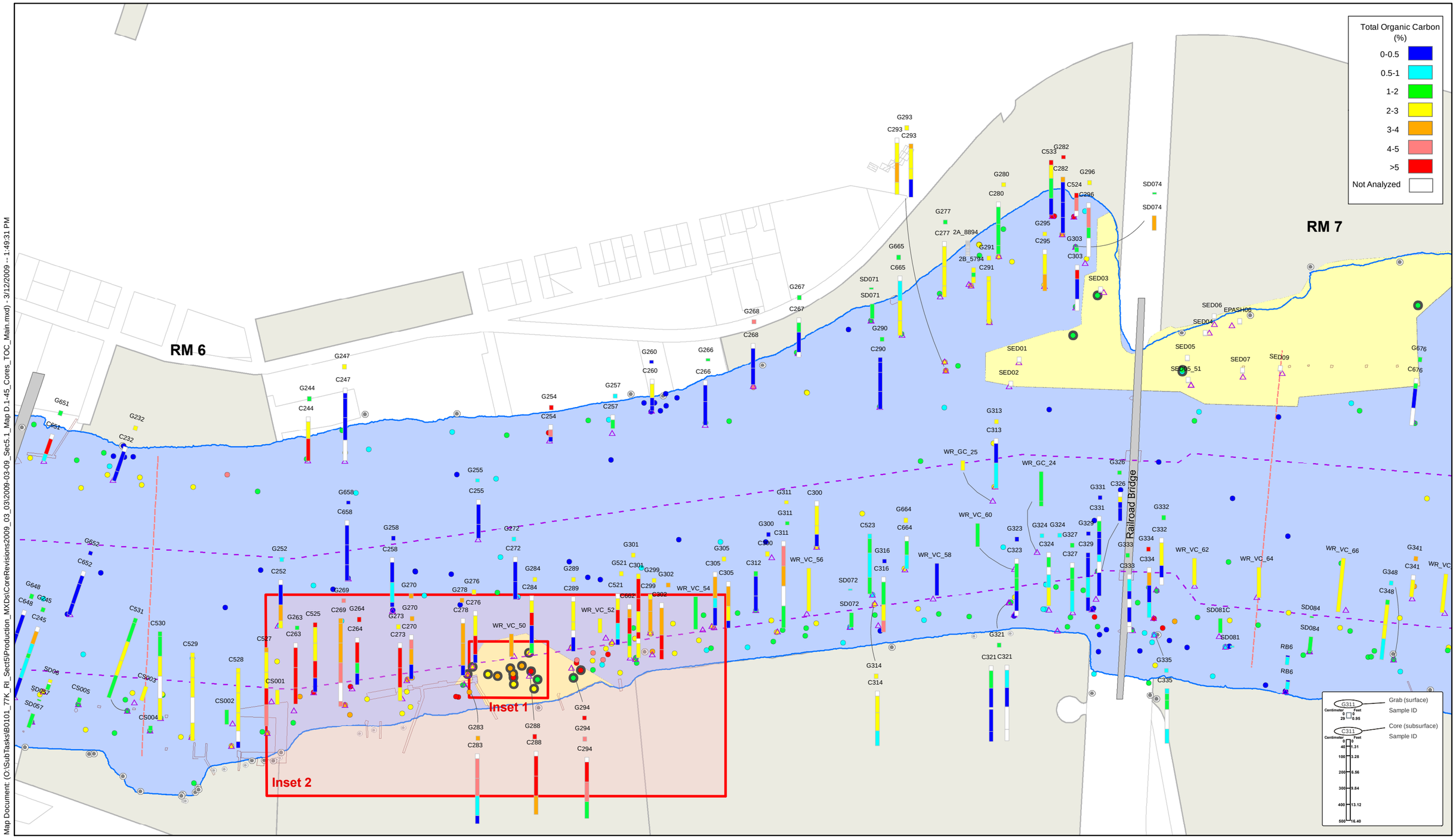
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77f
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 05 to 06



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

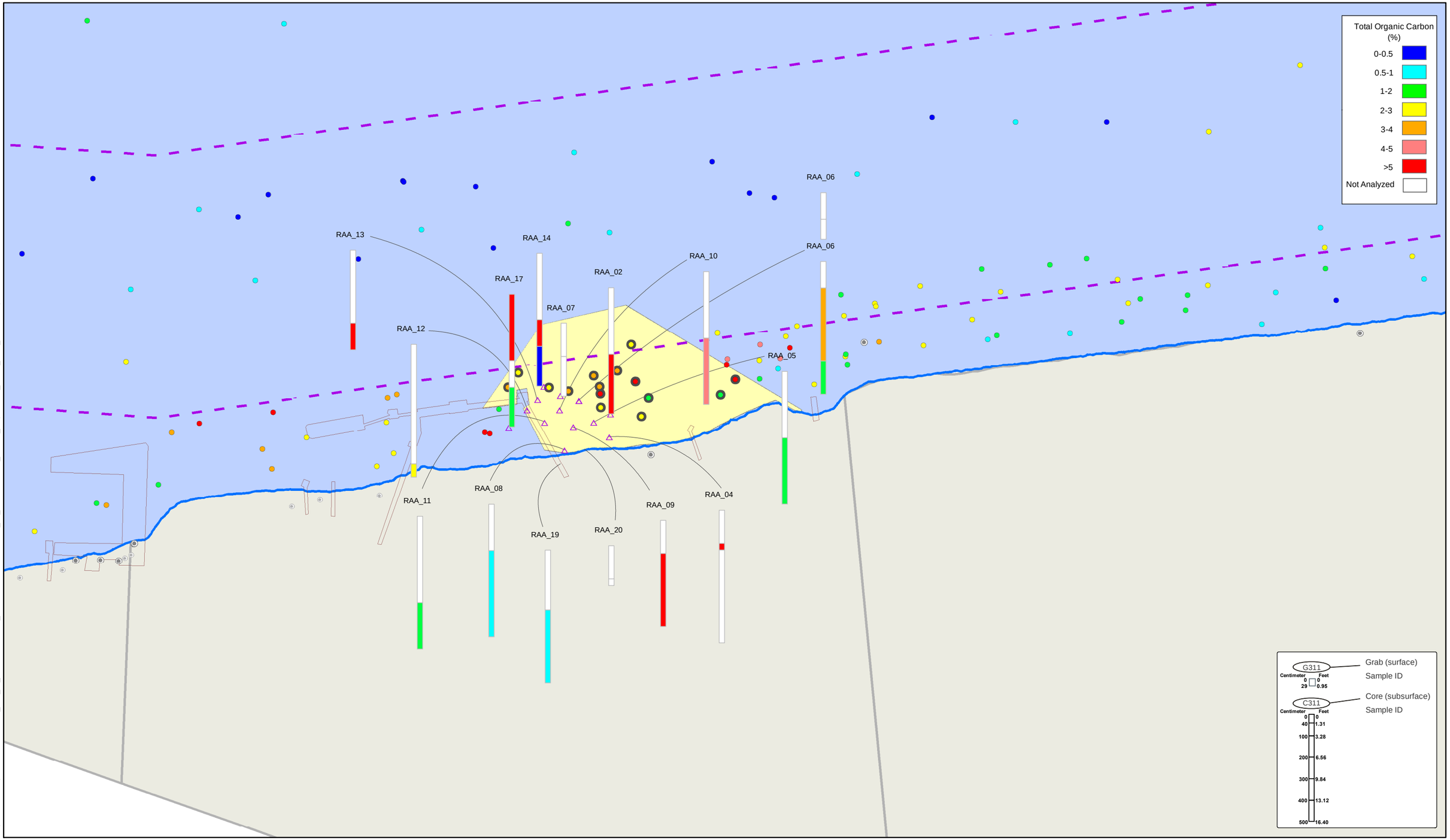
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 g
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 06 to 07



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features:

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

- Outfall
- Dock Drain
- Roof Drain

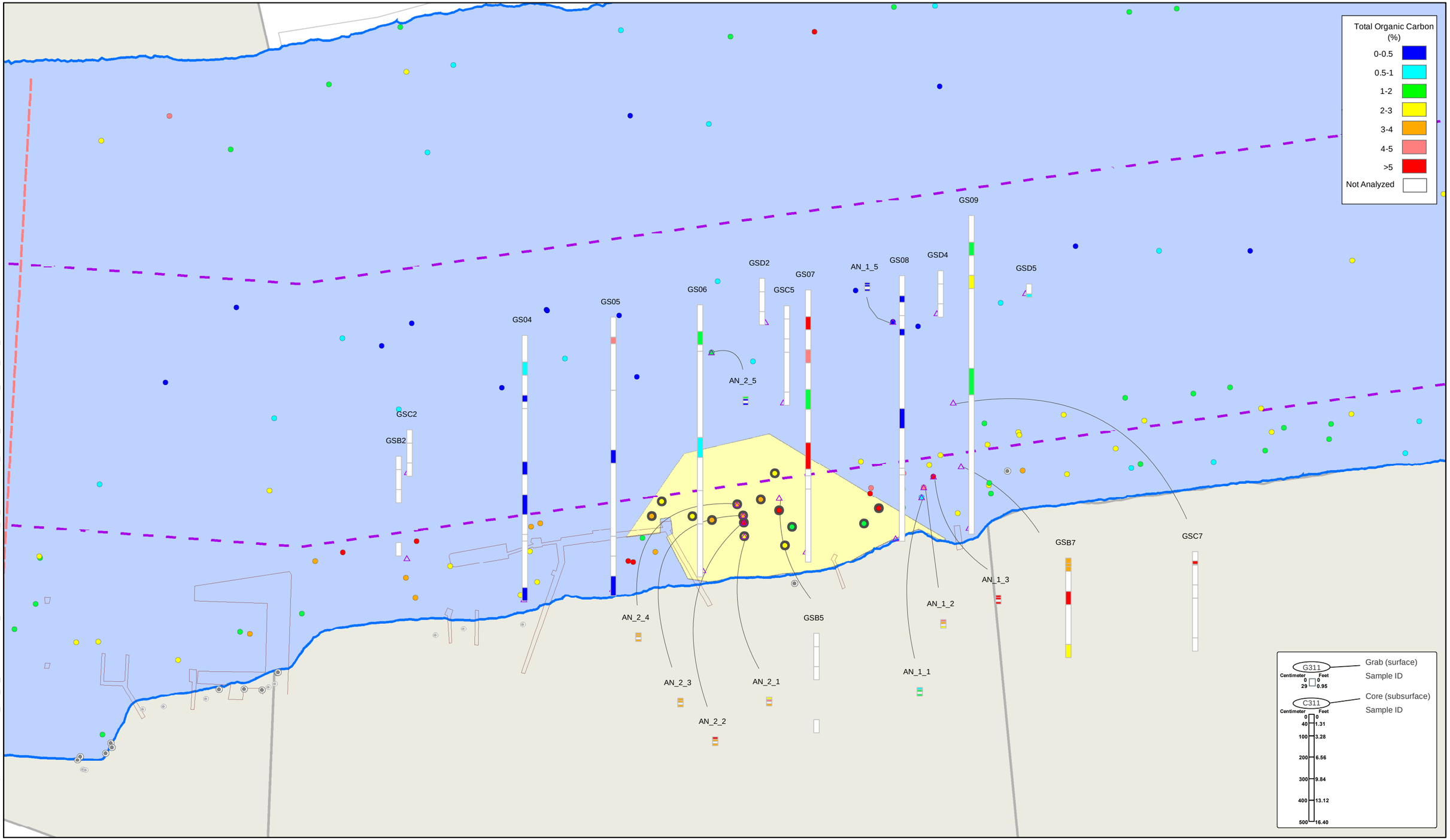
- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 g1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 06 to 07 - Inset 1

Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-45_Cores_TOC_Insets.mxd) - 3/12/2009 -- 1:52:38 PM



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 125 250 500 Feet

Map Features:

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

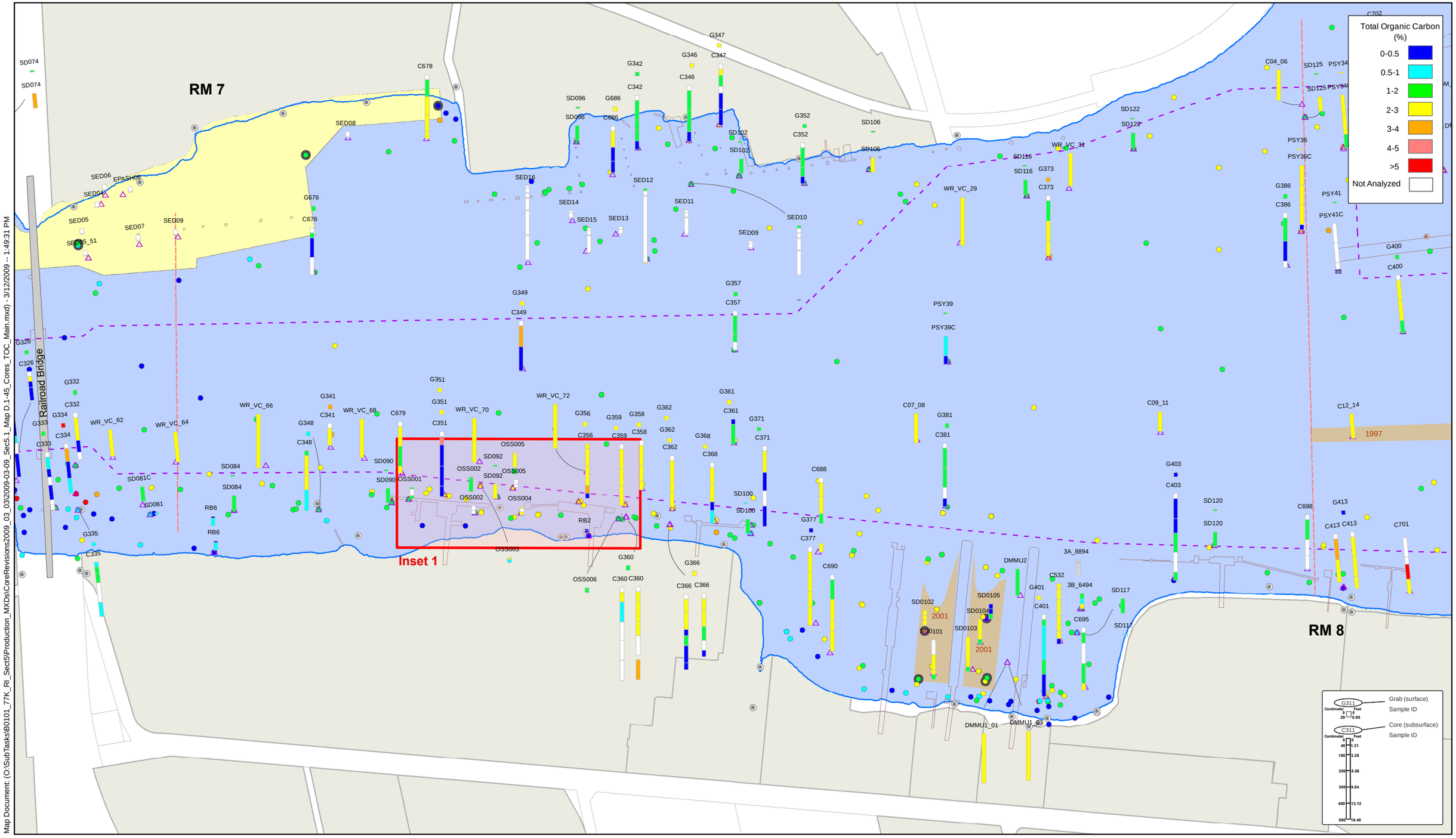
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 g2
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 06 to 07 - Inset 2



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-45_Cores_TOC_Main.mxd) - 3/12/2009 -- 1:49:31 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

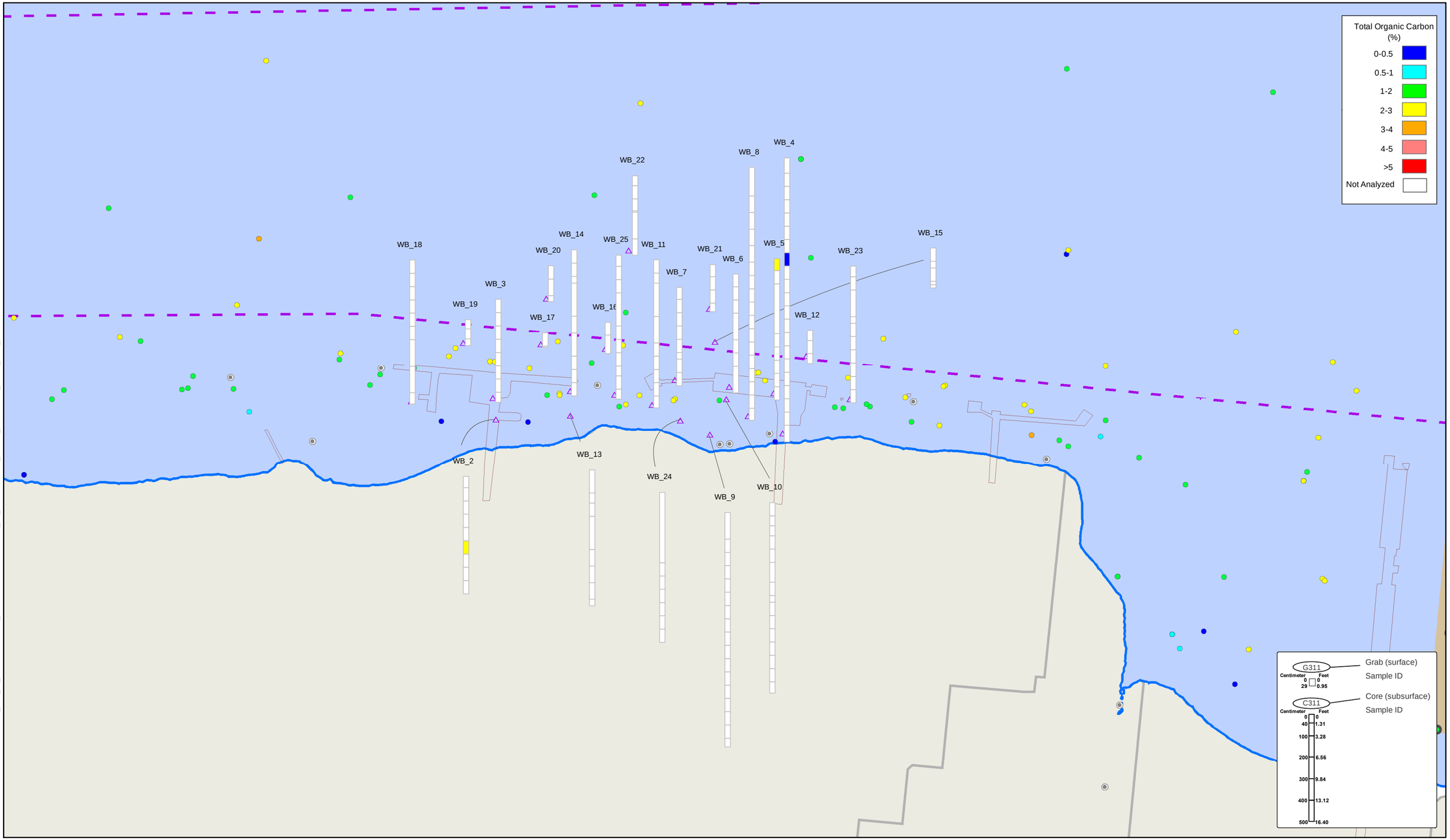
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 h
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 07 to 08



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-45_Cores_TOC_Insets.mxd) - 3/12/2009 -- 1:52:38 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 125 250 500 Feet

Map Features:

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

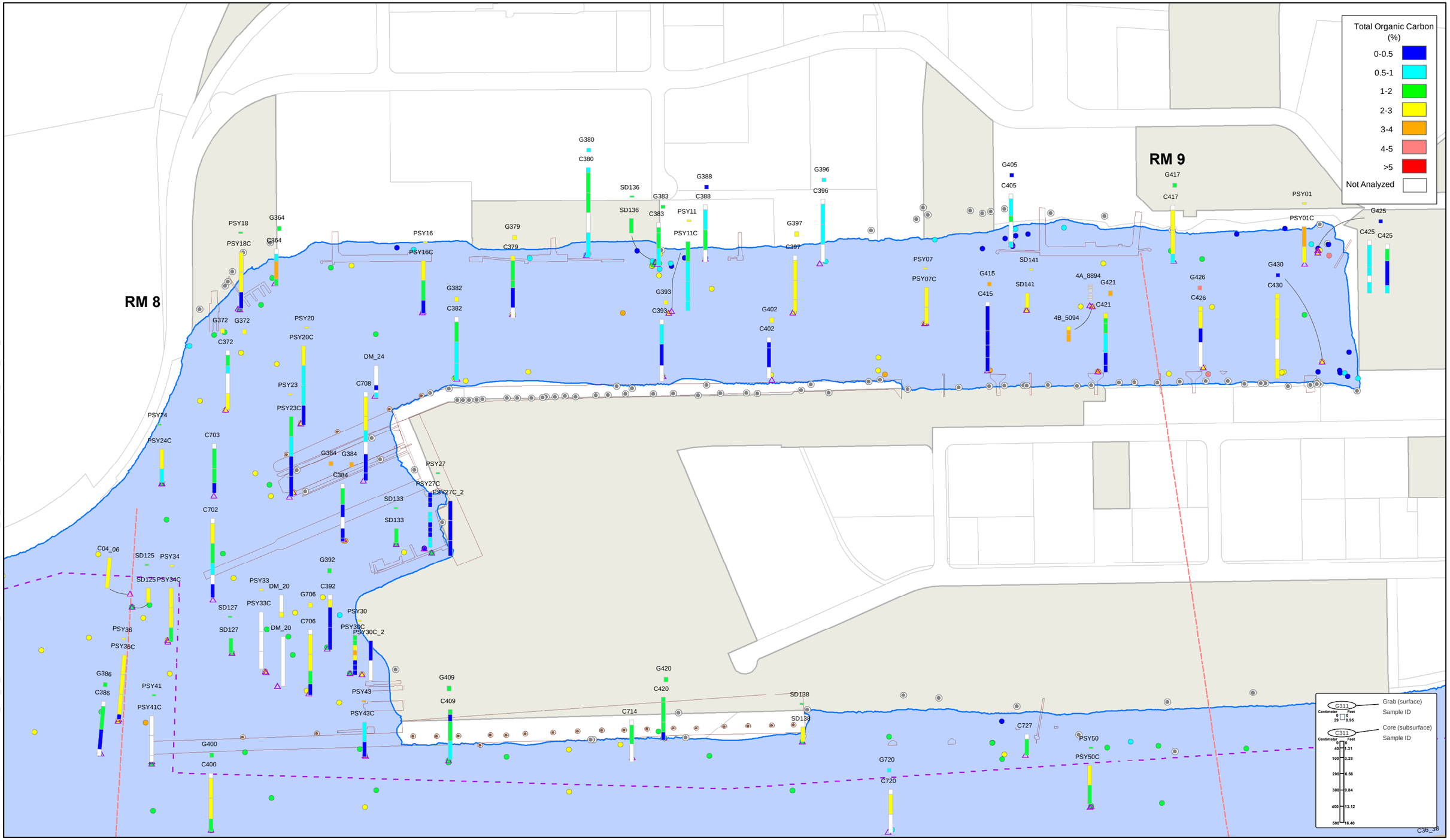
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77h1
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 07 to 08 - Inset 1



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

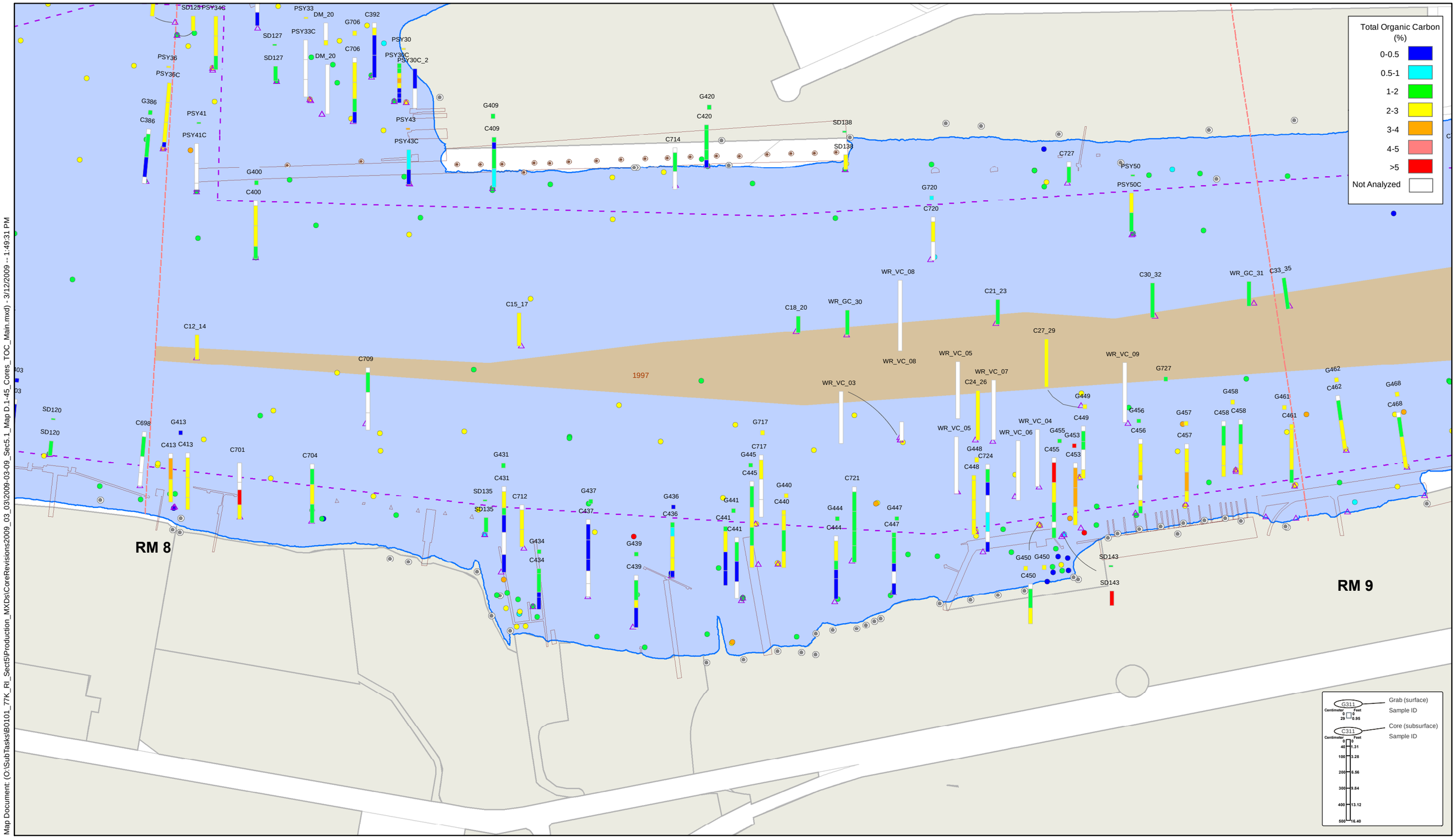
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 i
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 08 to 09 - Swan Is. East



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-45_Cores_TOC_Main.mxd) - 3/12/2009 -- 1:49:31 PM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

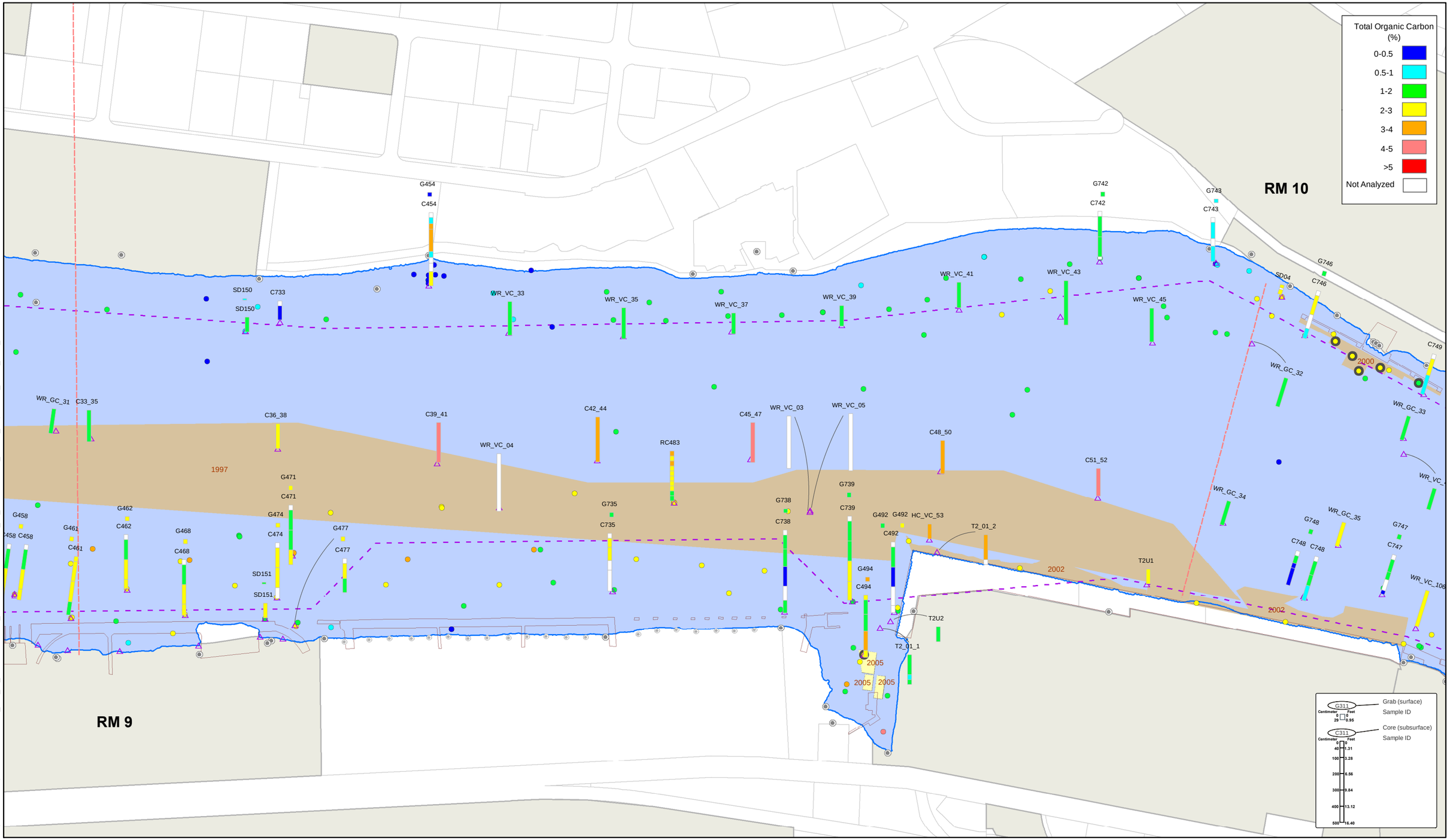
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77j
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 08 to 09 - Swan Is. West



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

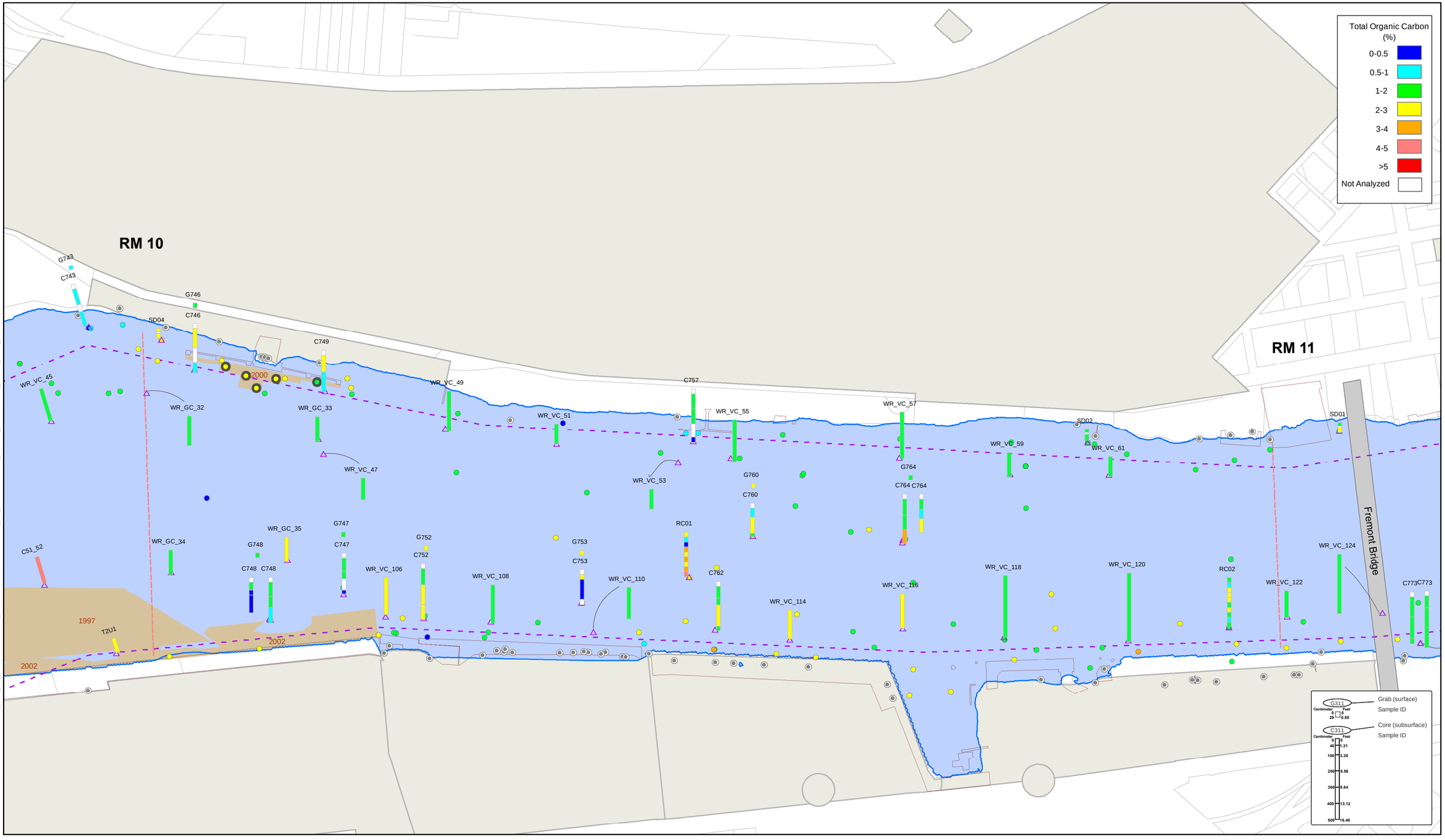
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77k
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 09 to 10



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

Outfalls

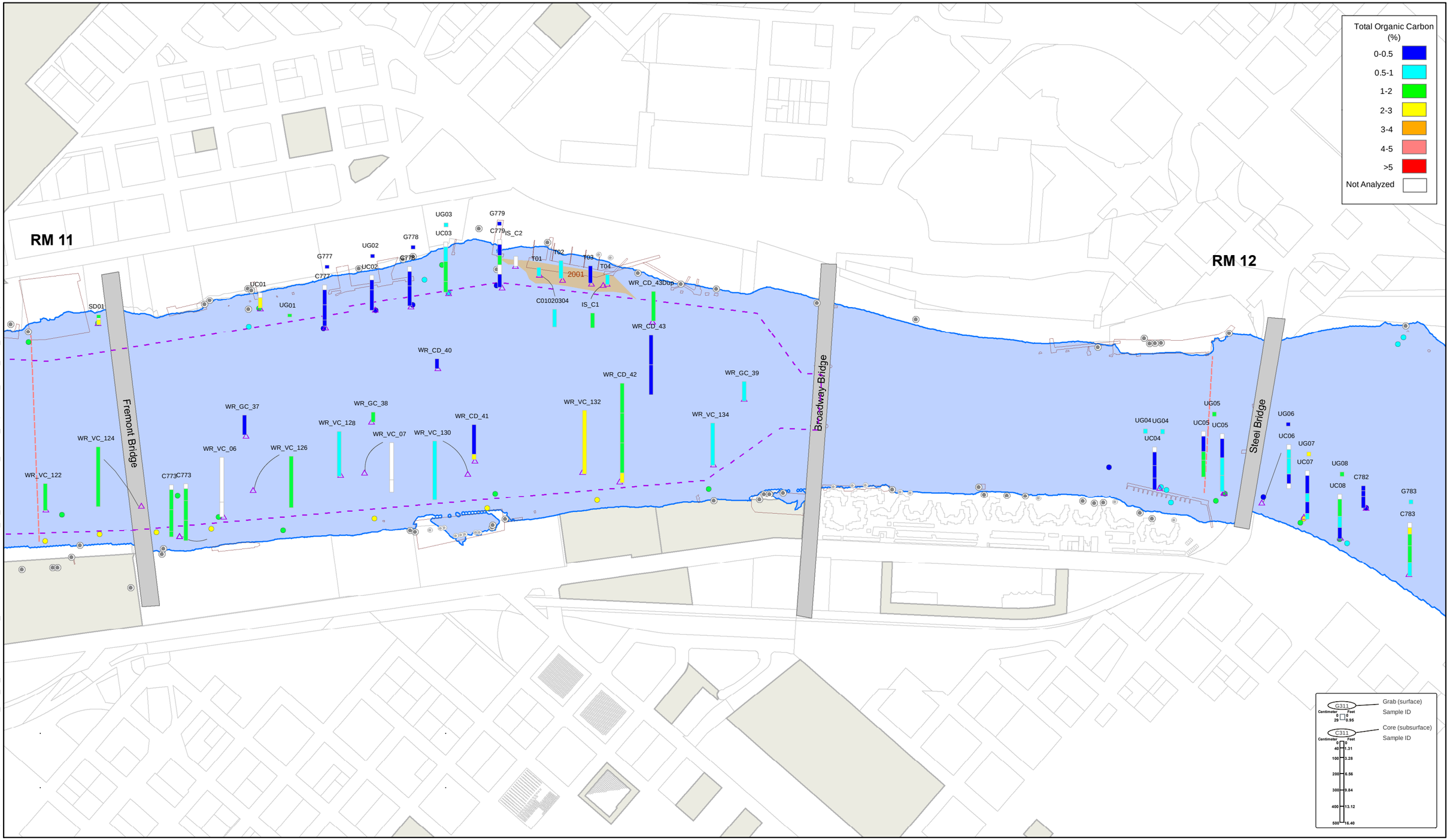
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77I
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 10 to 11



Map Document: (O:\SubTasks\B0101_77K_RI_Sect5\Production_MXDs\CoreRevisions2009_03_03\2009-03-09_Sec5.1_Map D.1-45_Cores_TOC_Main.mxd) - 3/12/2009 -- 1:49:31 PM

N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 150 300 450 600 750 Feet

Map Features

- River Miles
- Bridges
- Docks and Structures
- Navigation Channel
- River Edge +13 ft NAVD

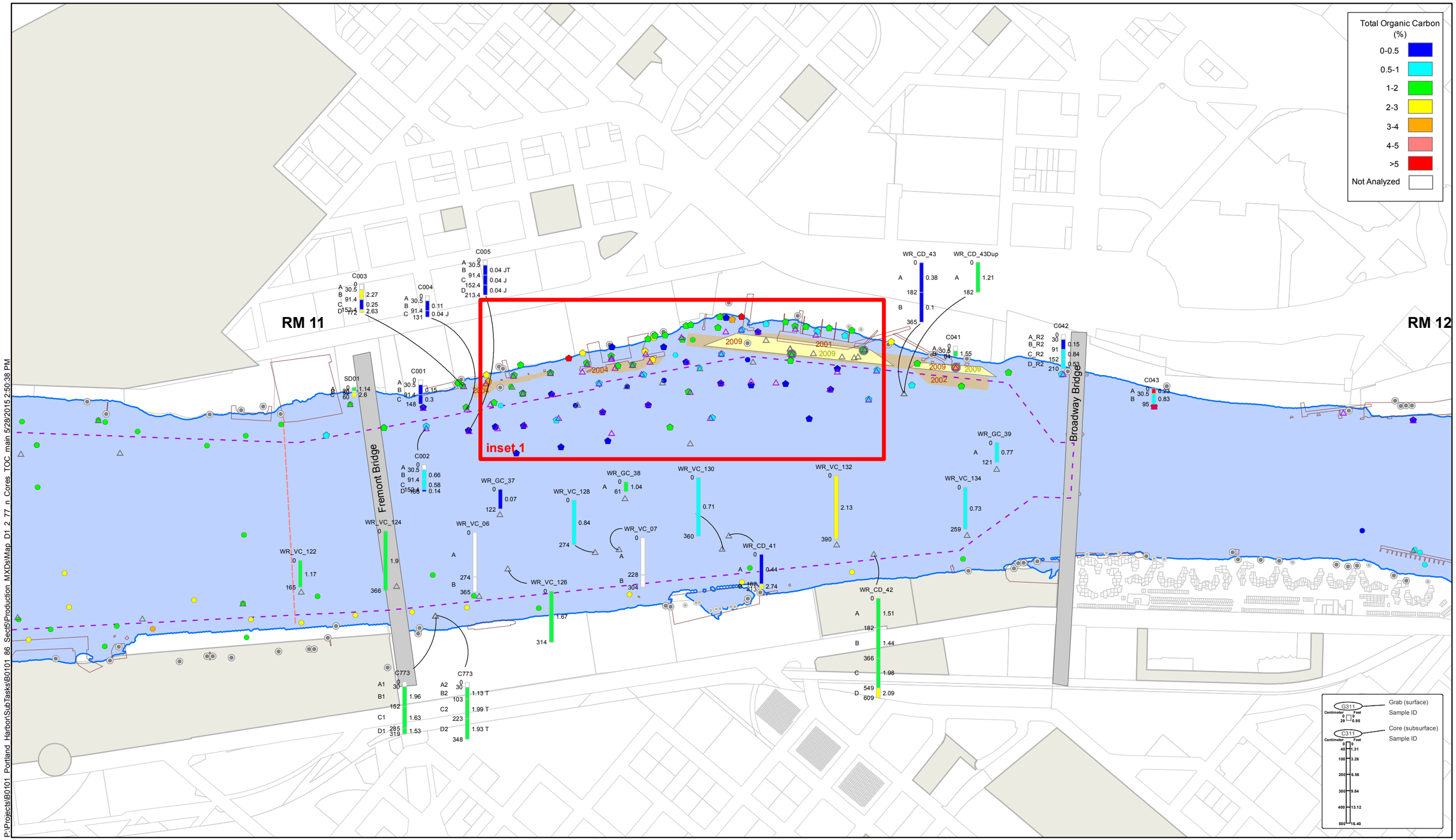
Outfalls

- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry
- Core Locations
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations

- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77 m
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)
River Mile 11 to 12



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

0 100 200 300 400 500 Feet

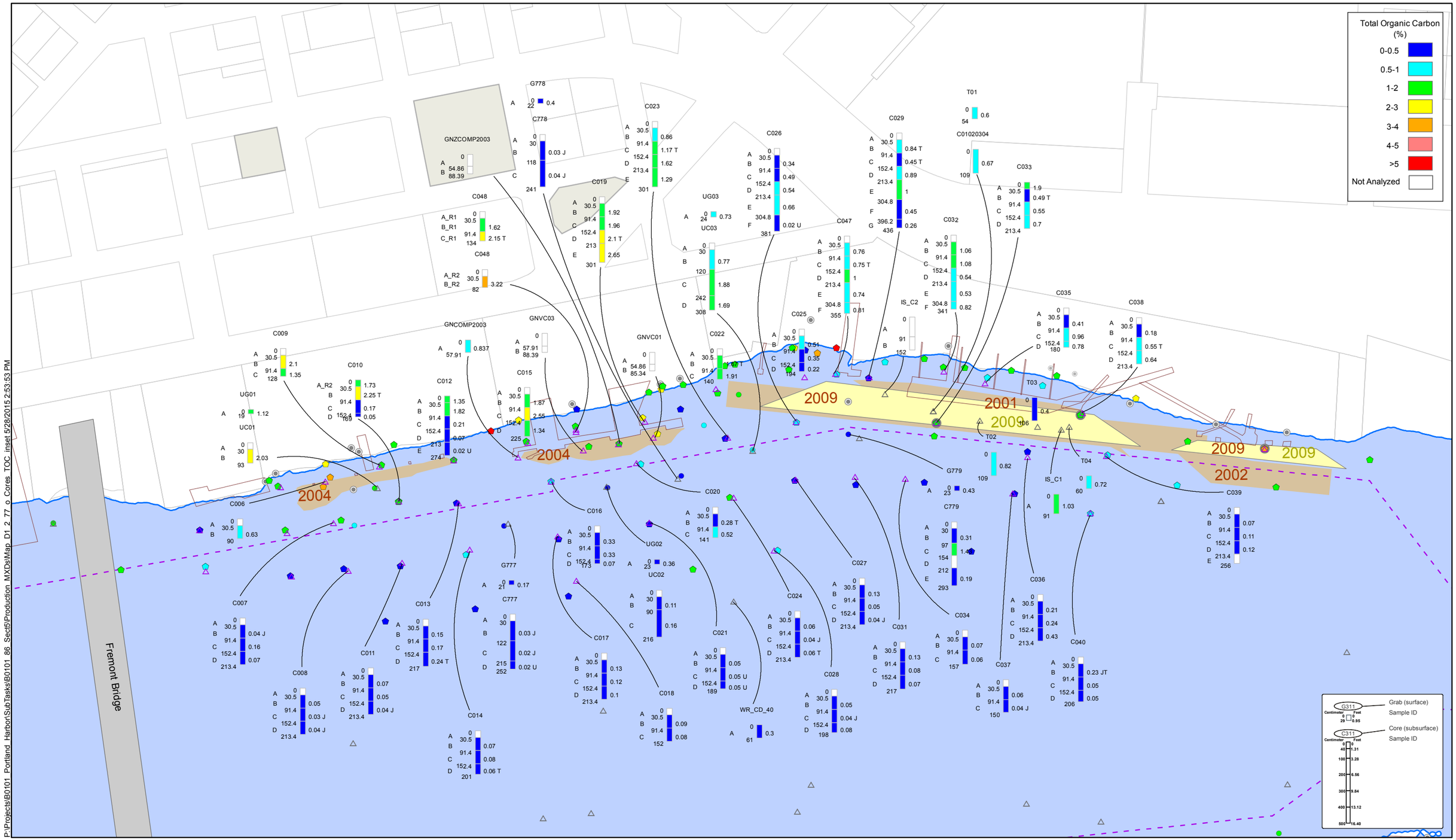
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

MapD1.2-77n
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 11.0 - 11.8



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FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
NOTE: Bottom of cores are generally placed at core sample station, if not possible a tag line indicates the sample location.

N

0 100 200 300 400 500 Feet

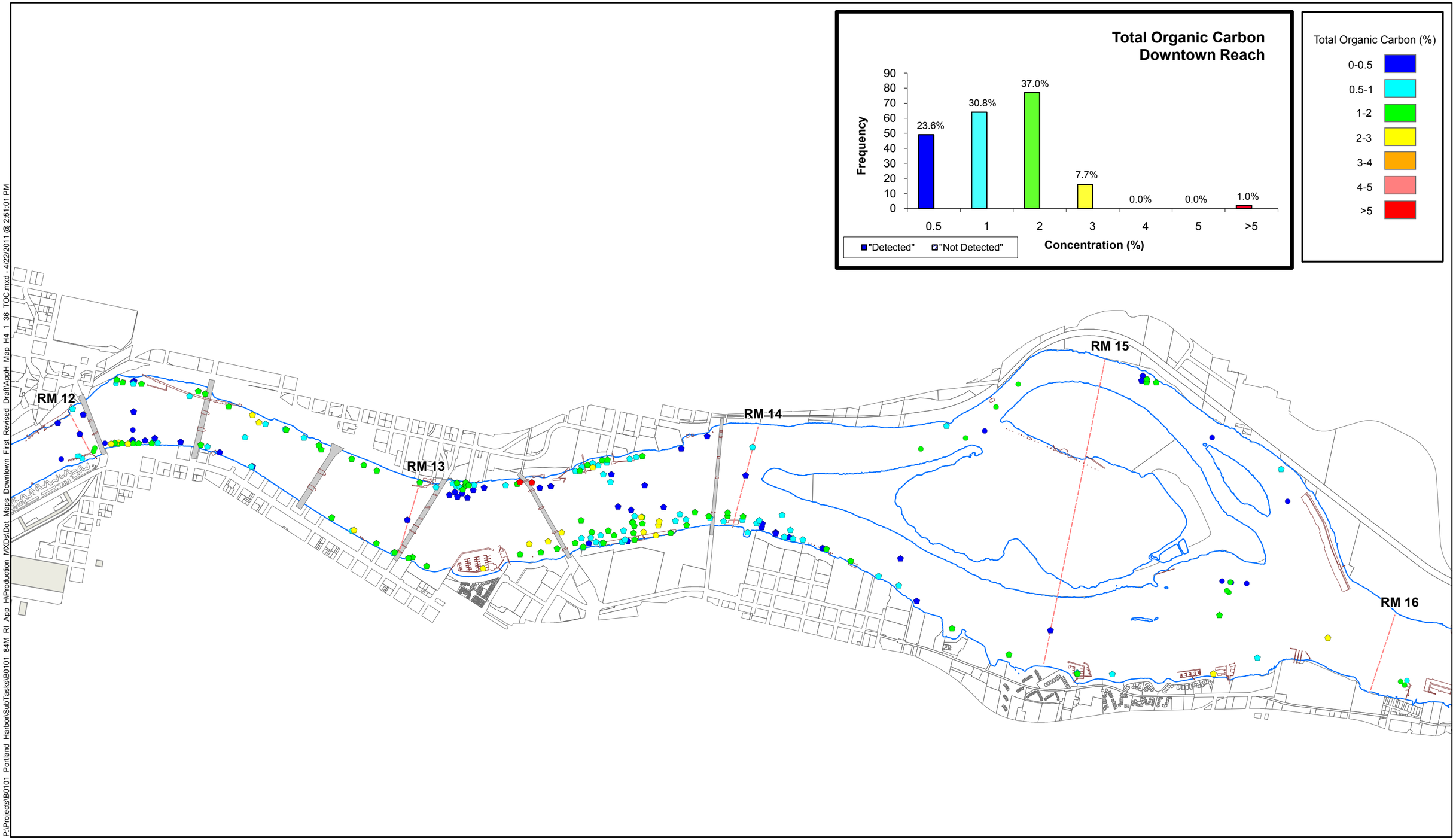
Map Features
- River MIles
- Navigation Channel
- Bridges
- Docks and Structures
- River Edge +13 ft NAVD

Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Chemistry (2008 RI Data Set)
- Core Locations (Updated 2010 RI Data Set)
- Core Locations (2008 RI Data Set)
- Capping Areas
- Dredging Areas
- Surface Dredge/Cap Locations
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-77o
Portland Harbor RI/FS
Remedial Investigation Report
Subsurface Sediment Chemistry
Total Organic Carbon (%)

River Mile 11.0 - 11.8 - Inset 1



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N

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
ECSI Locations: City of Portland

0 700 1,400 2,800 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Surface Chemistry (2008 RI Data Set)
- Surface Chemistry (Updated 2010 RI Data Set)
- Surface Dredge/Cap Locations
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map D1.2-78
Portland Harbor RI/FS
Remedial Investigation Report
Surface Sediment Chemistry
Total Organic Carbon (%)
Downtown Reach