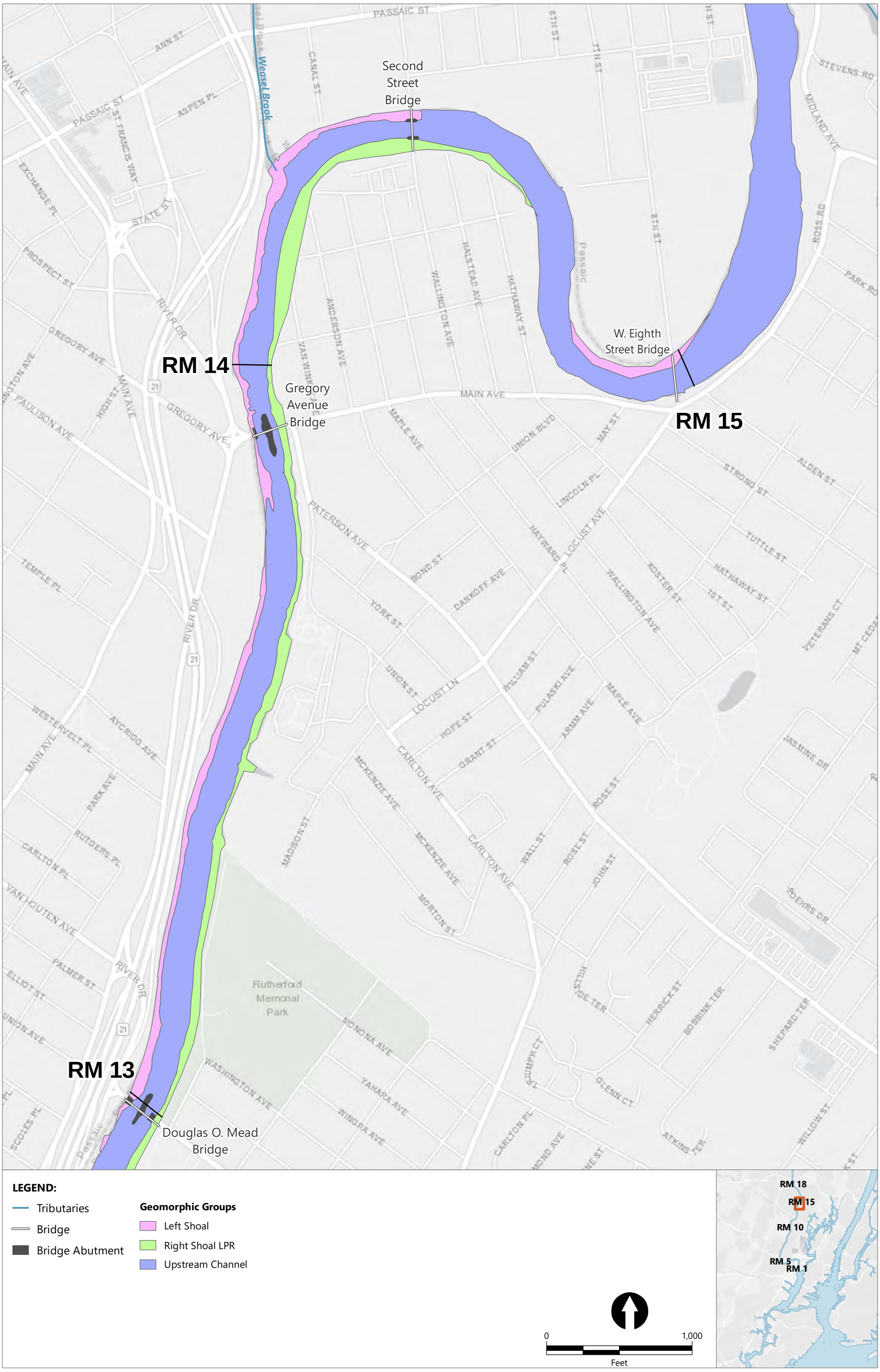
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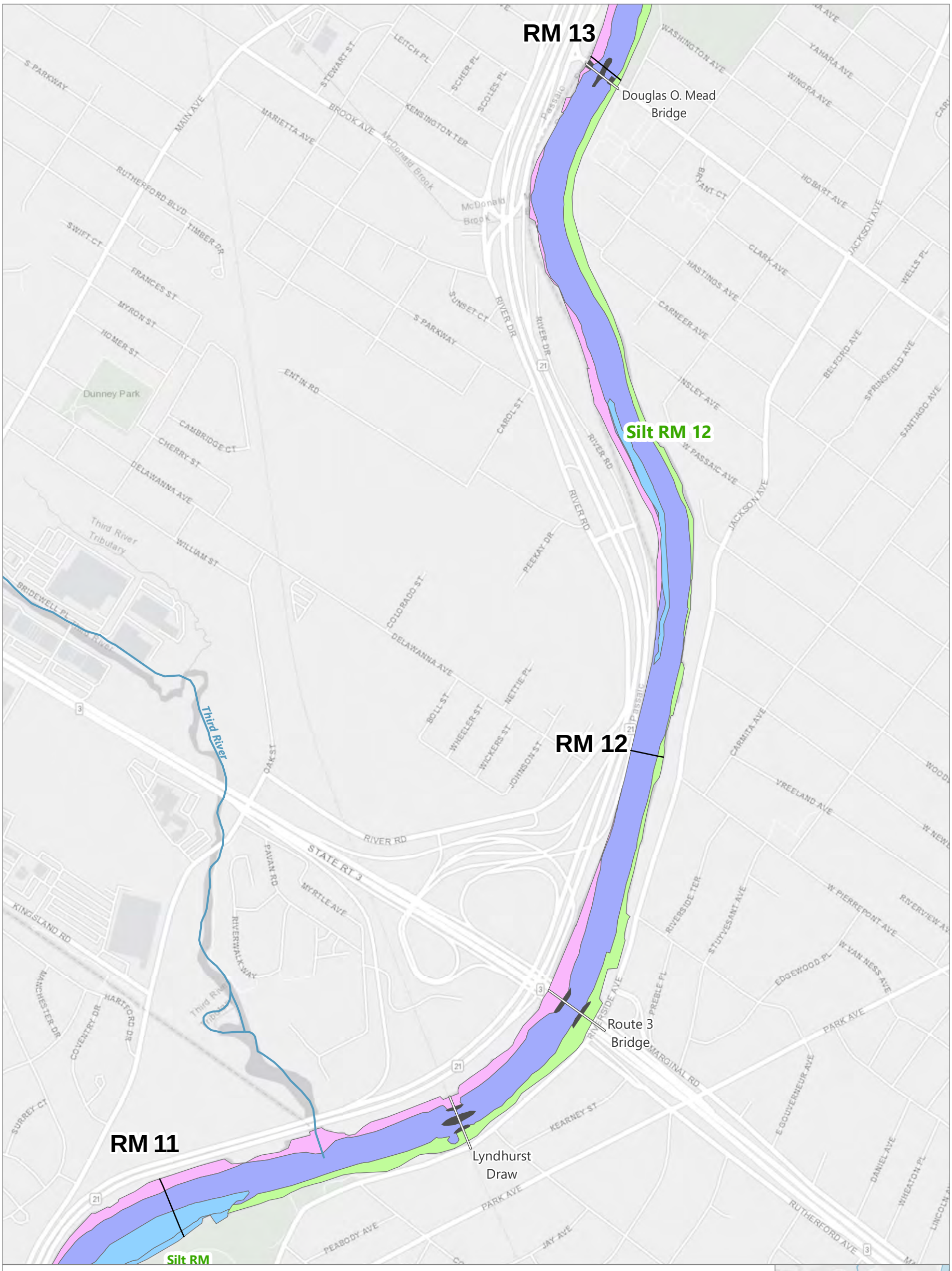
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Figure 3-1a
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



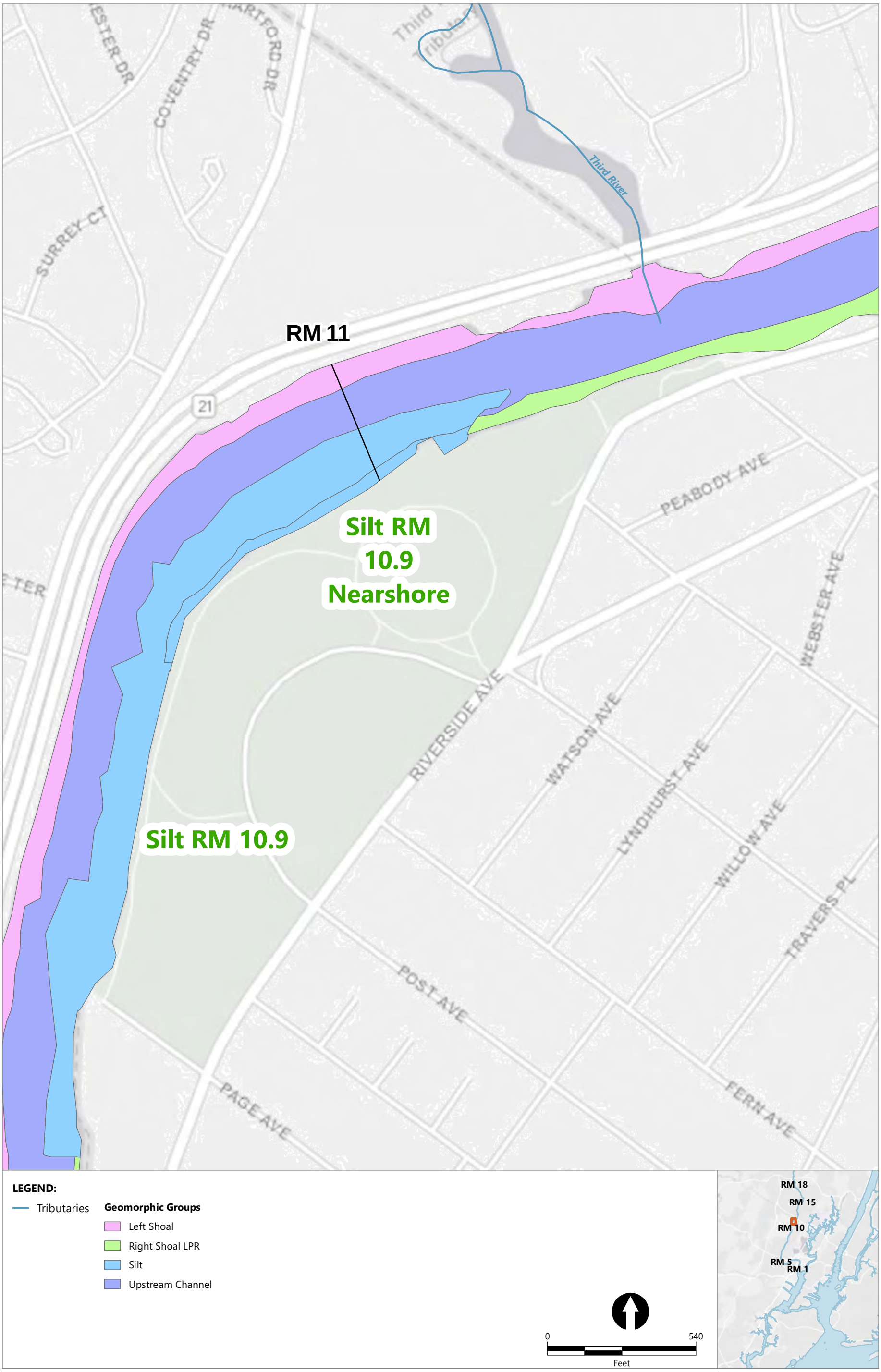
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Figure 3-1b
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-1c
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



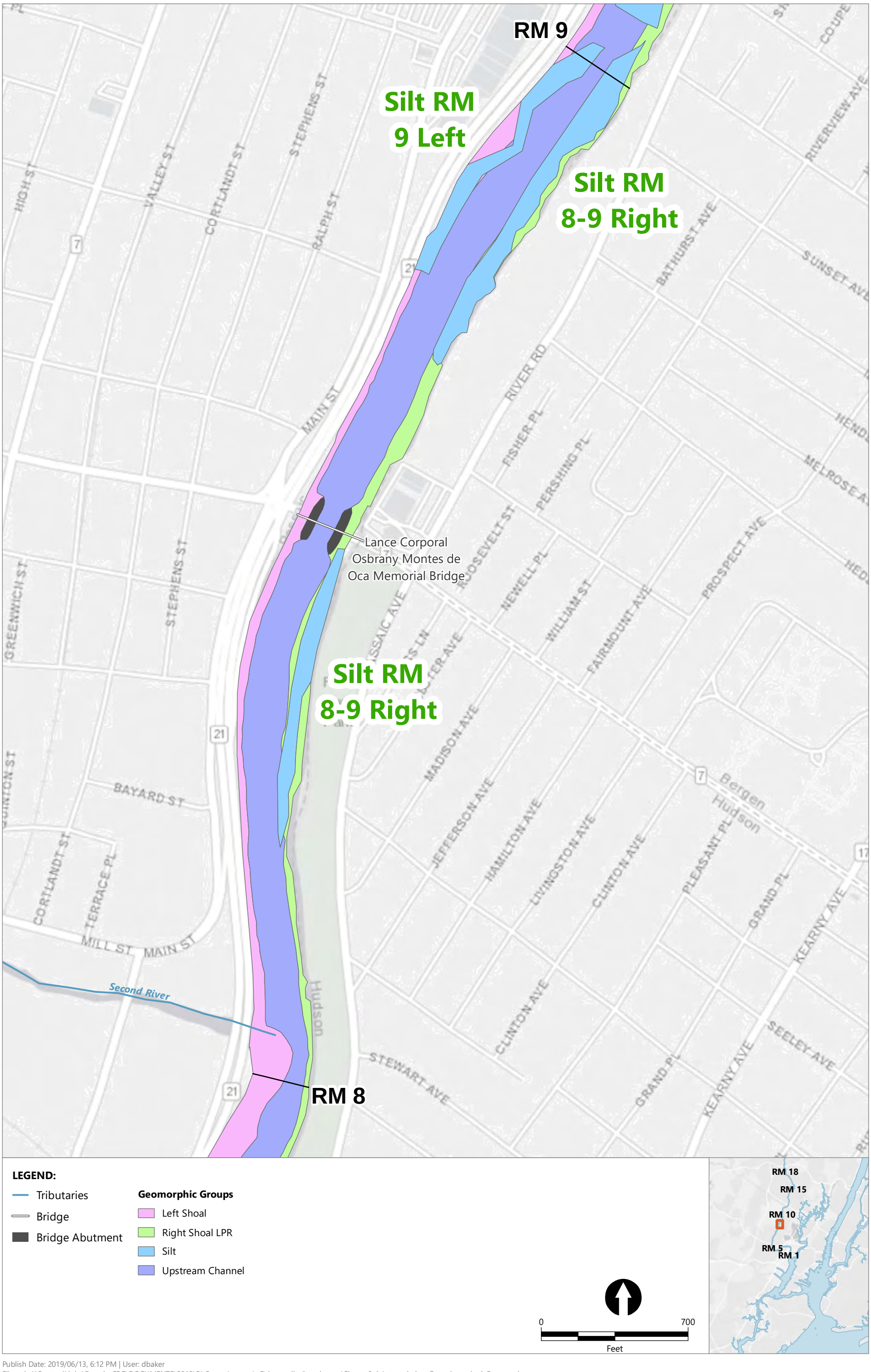
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Figure 3-1d
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



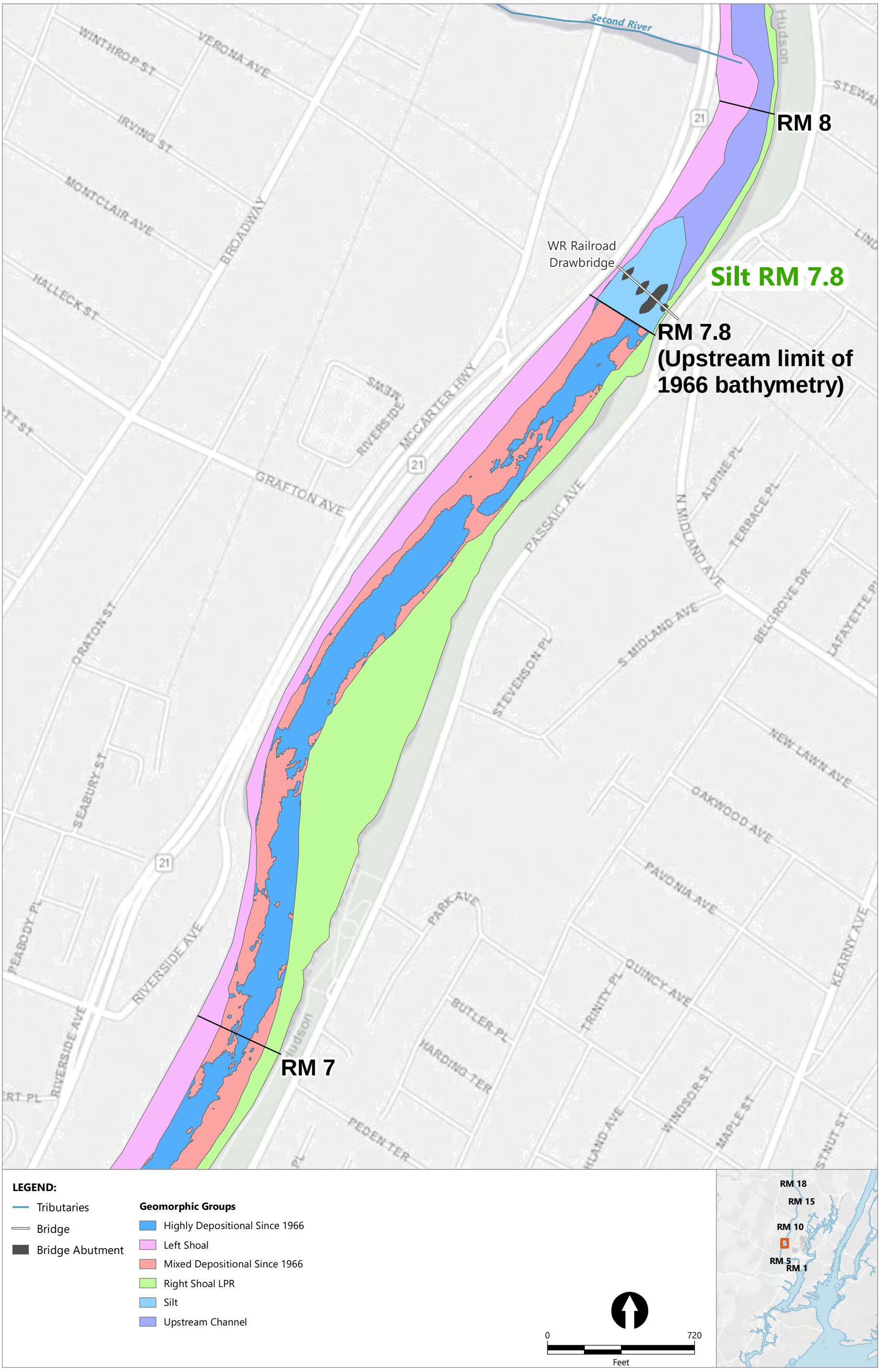
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Figure 3-1e
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



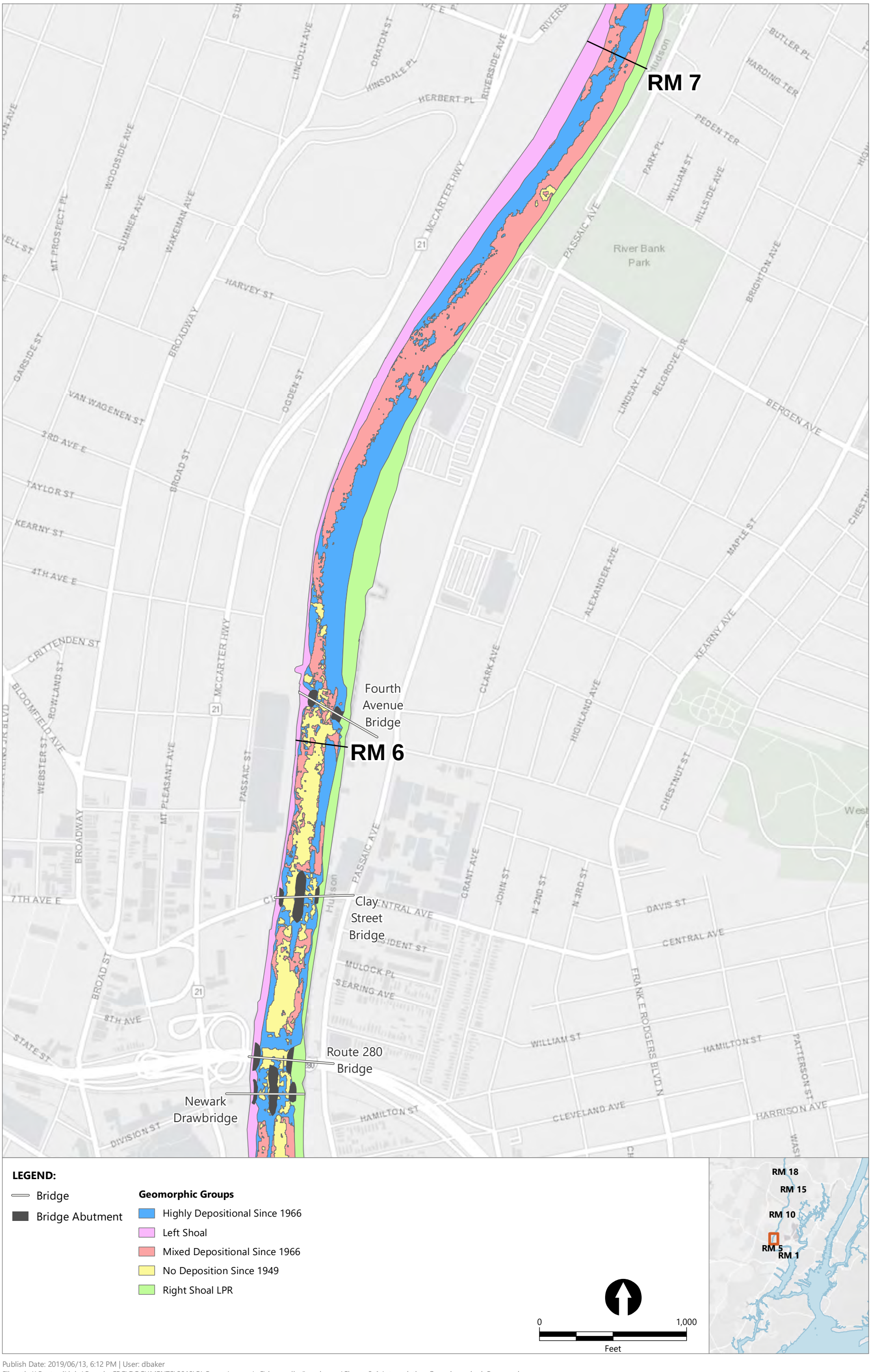
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Figure 3-1f
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



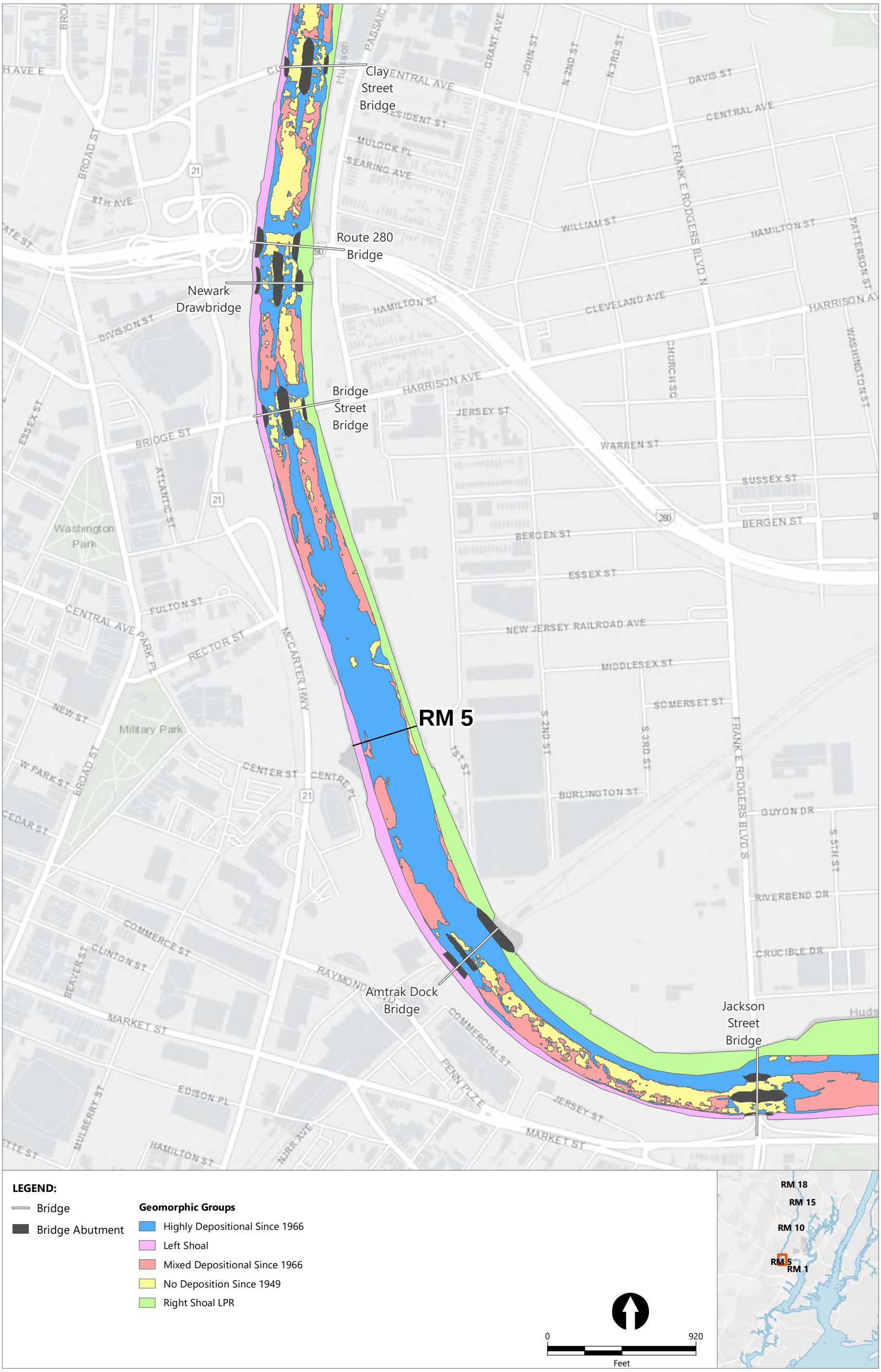
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Figure 3-1g
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-1h
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



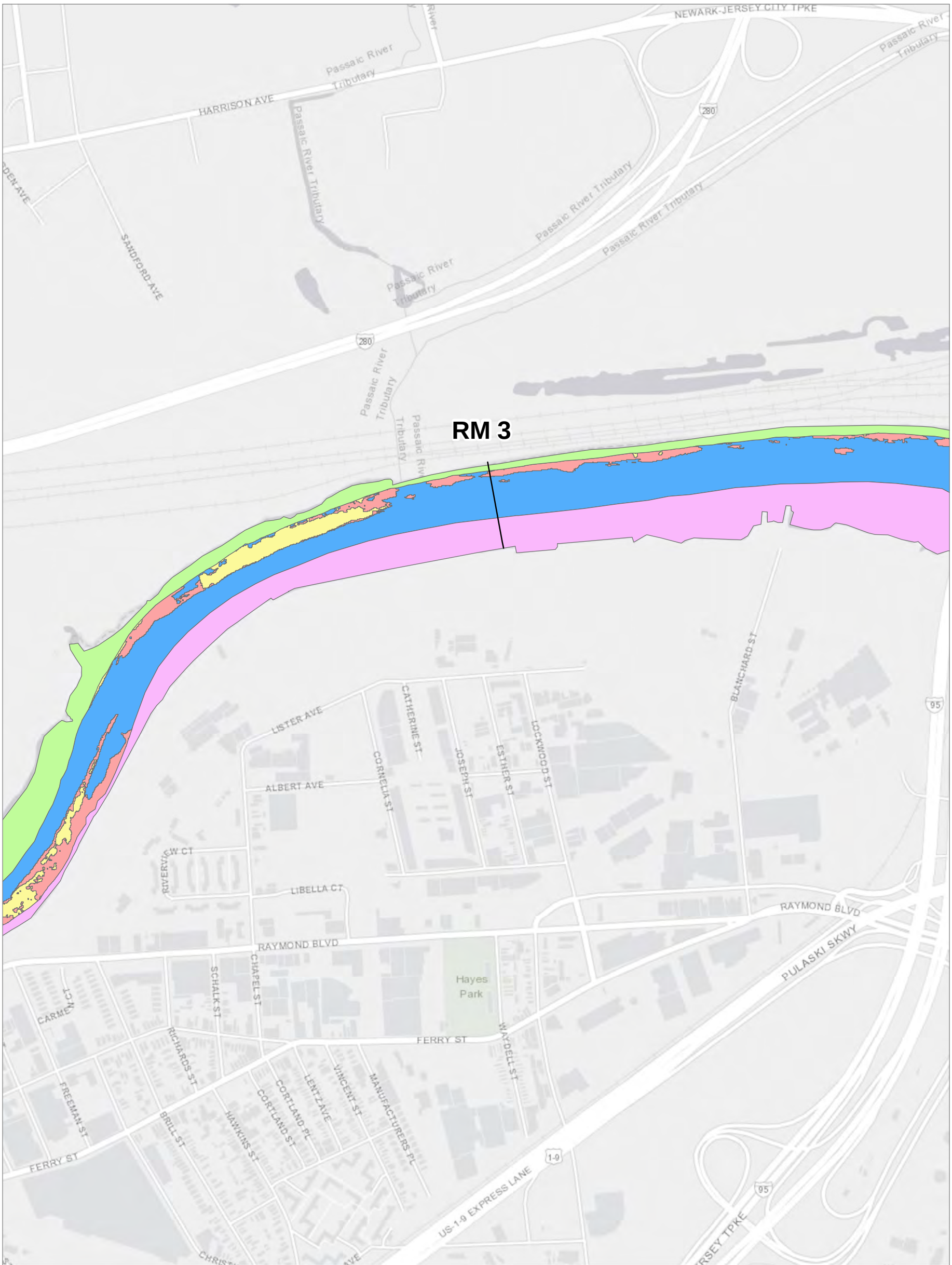
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Figure 3-1i
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



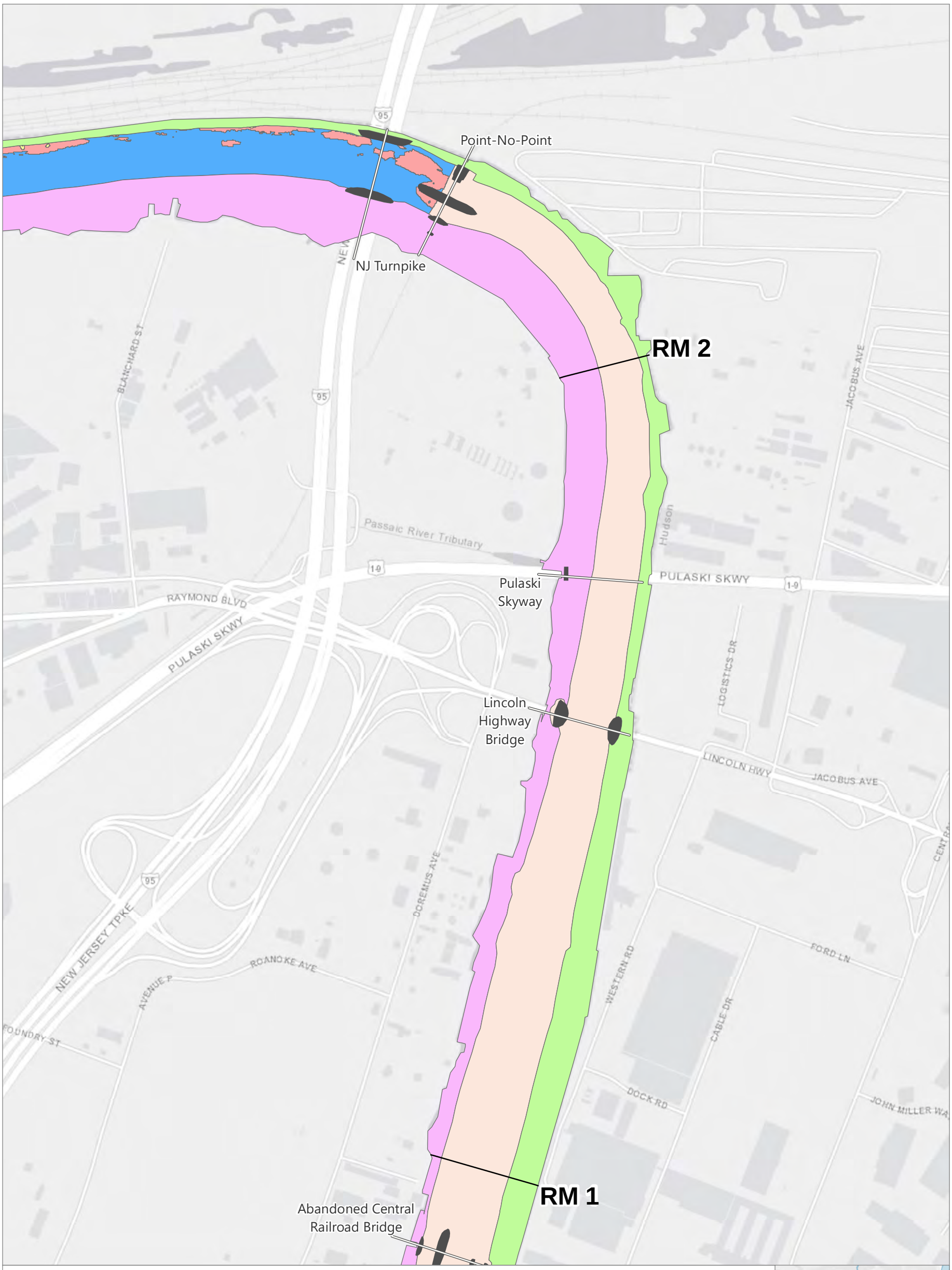
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Figure 3-1j
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



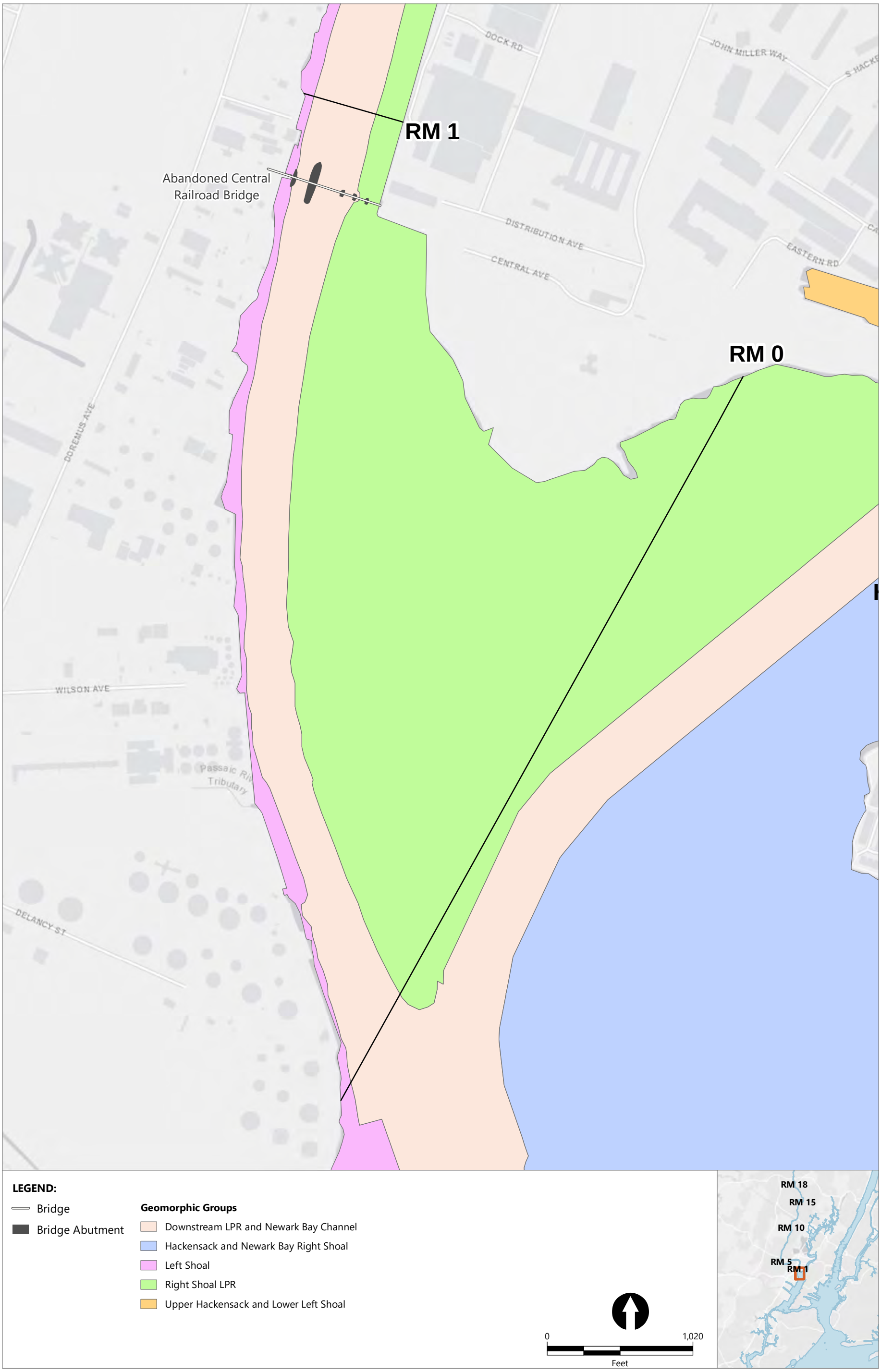
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Figure 3-1k
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



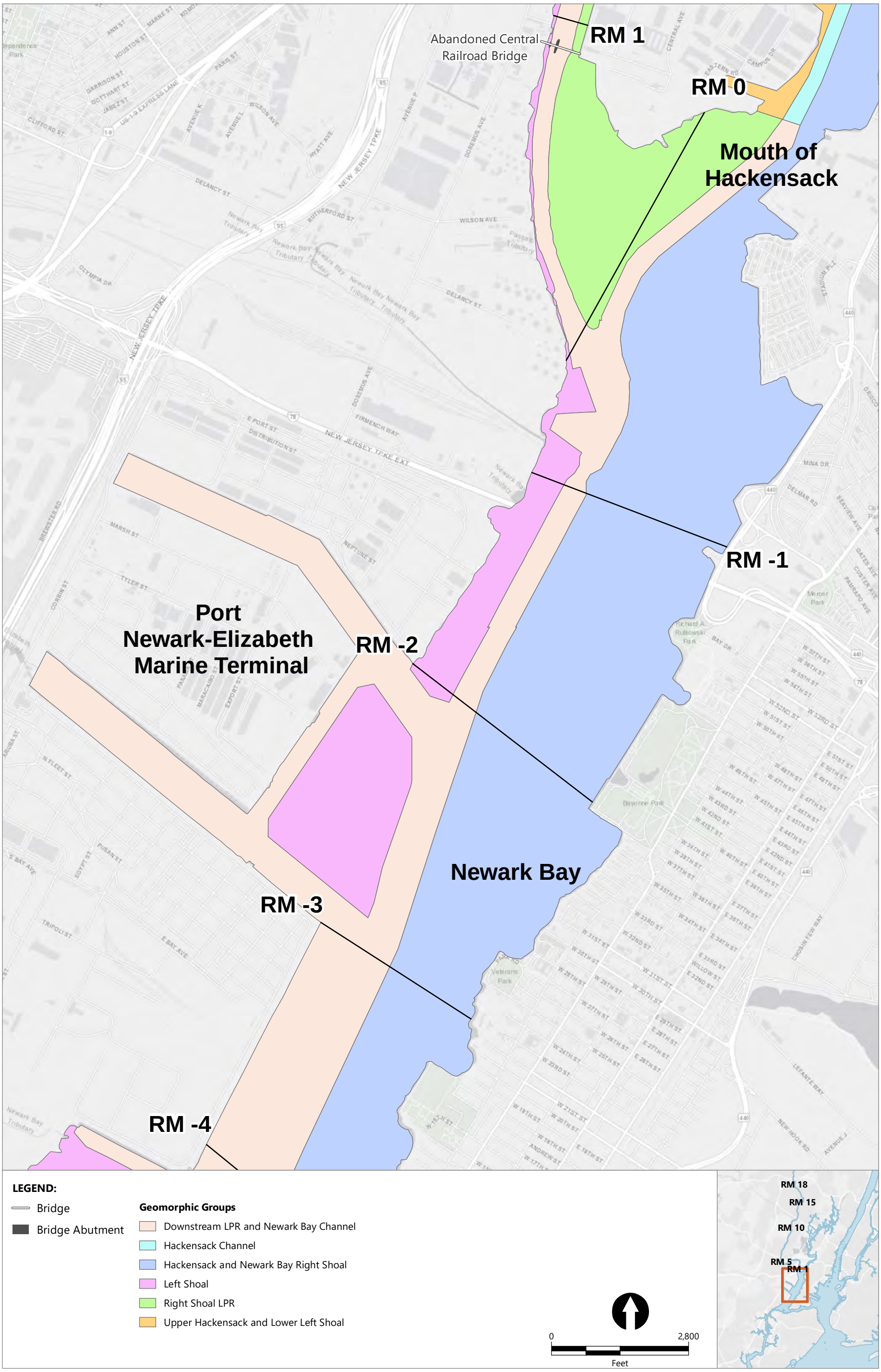
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Figure 3-1l
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



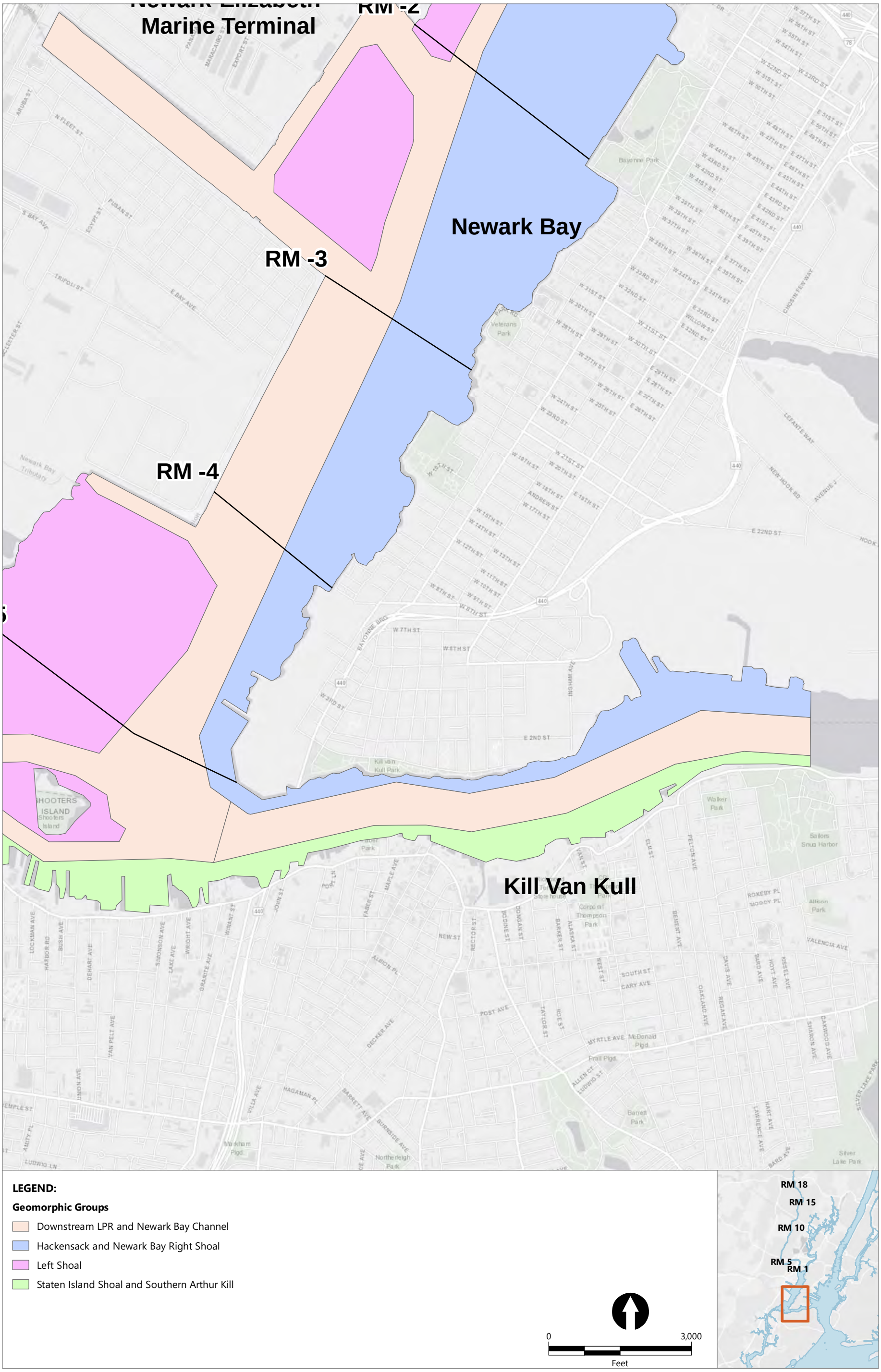
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Figure 3-1m
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-1n
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



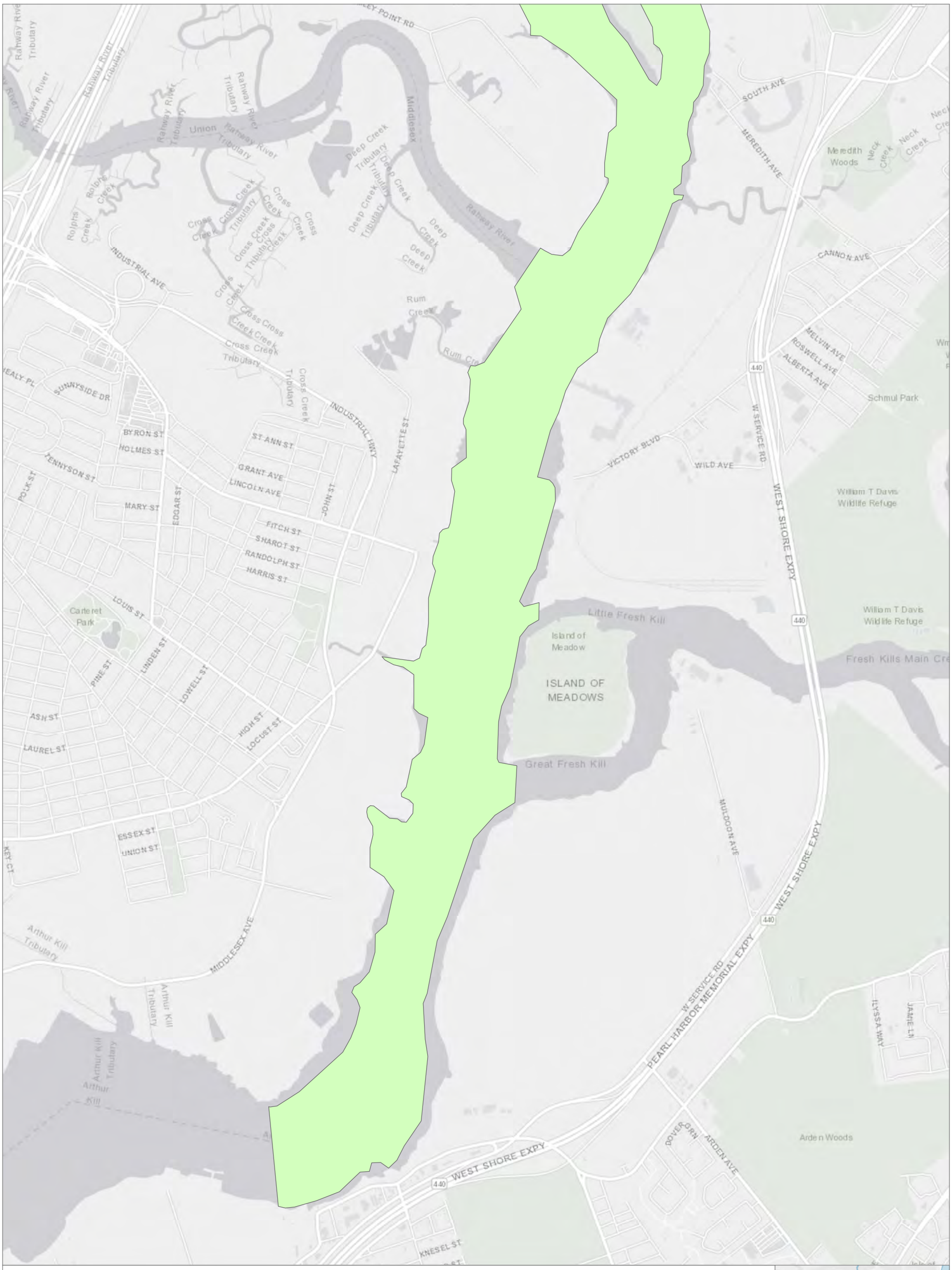
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Figure 3-1o
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-1p
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



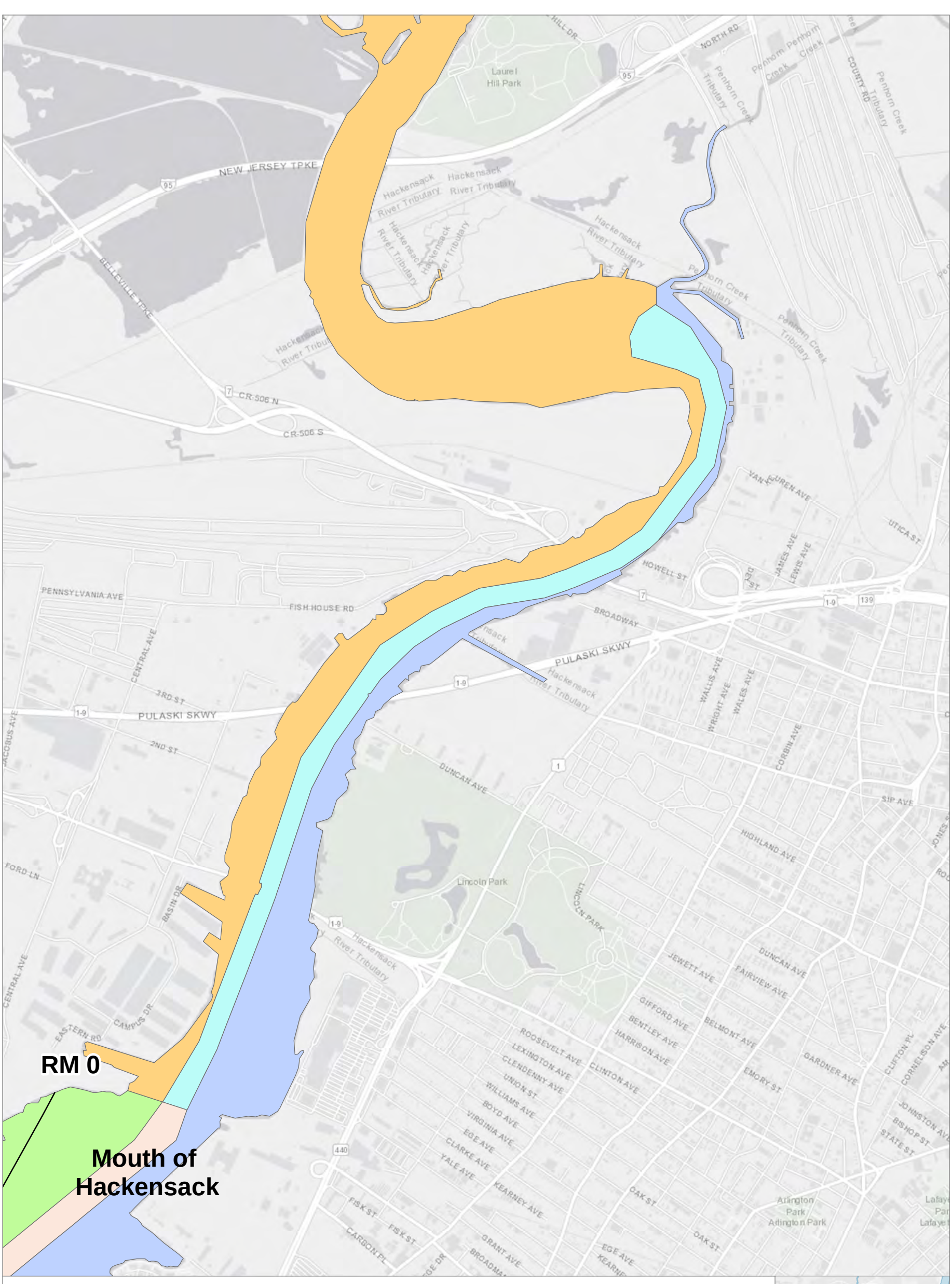
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Geomorphic Groups

Staten Island Shoal and Southern Arthur Kill

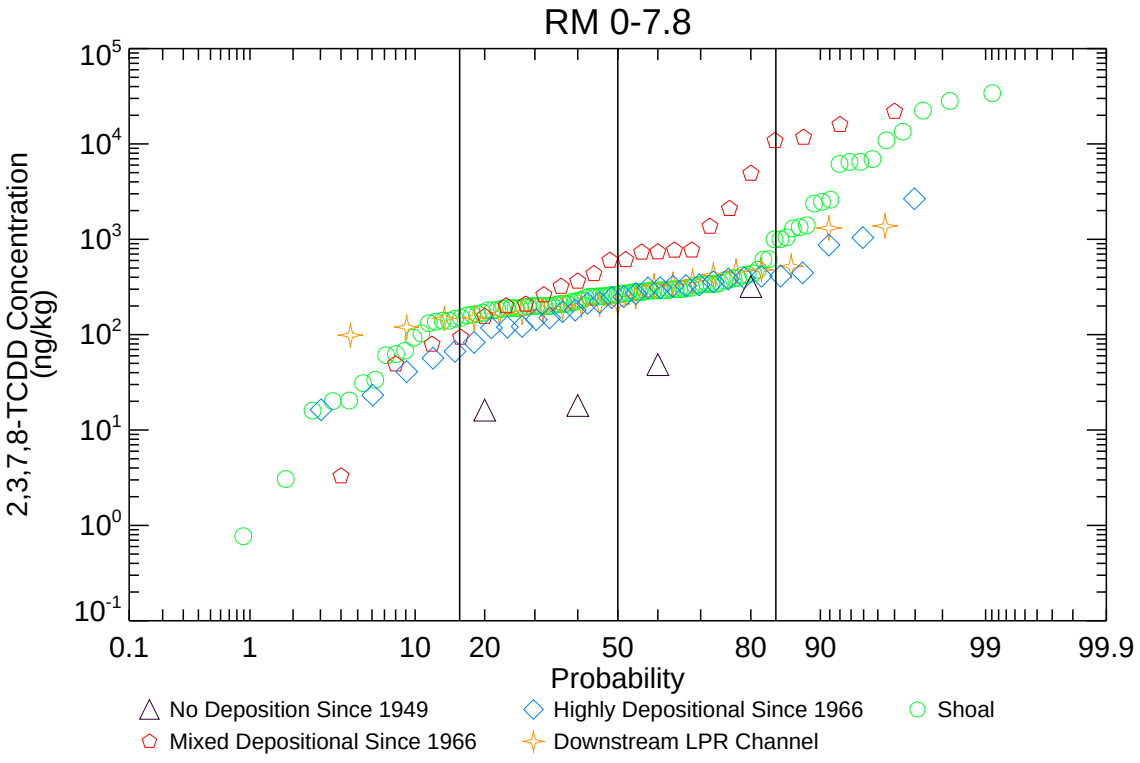
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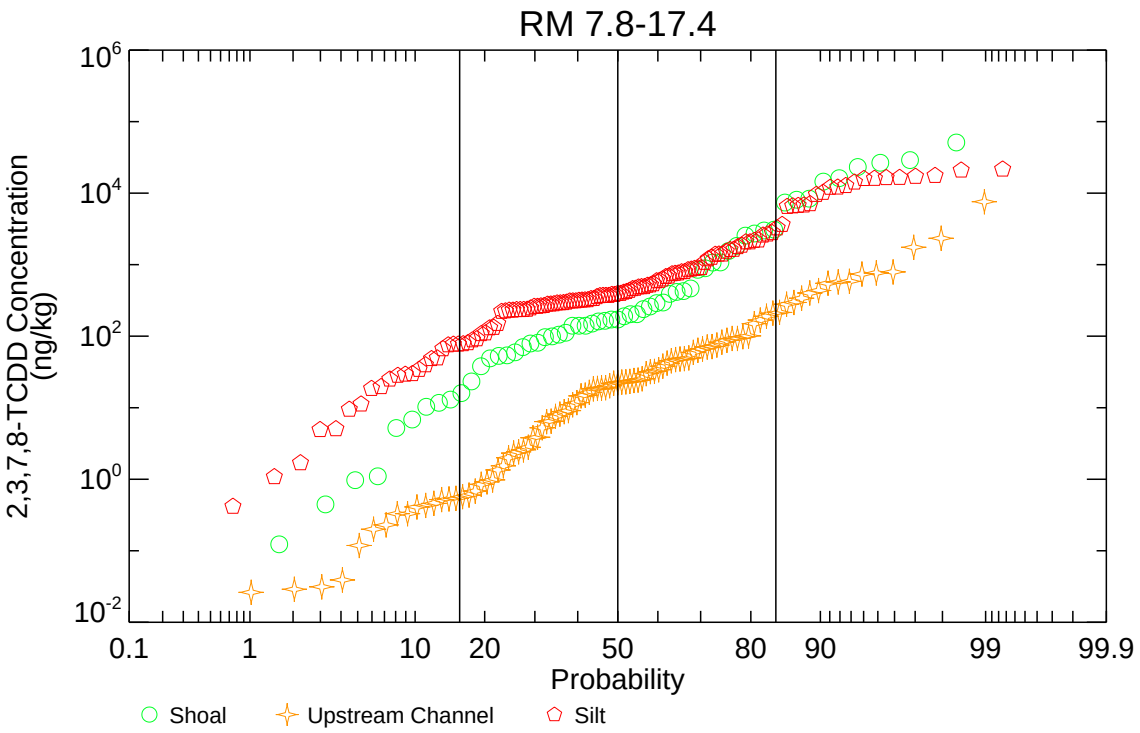
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Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-1r
Geomorphic Groups
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



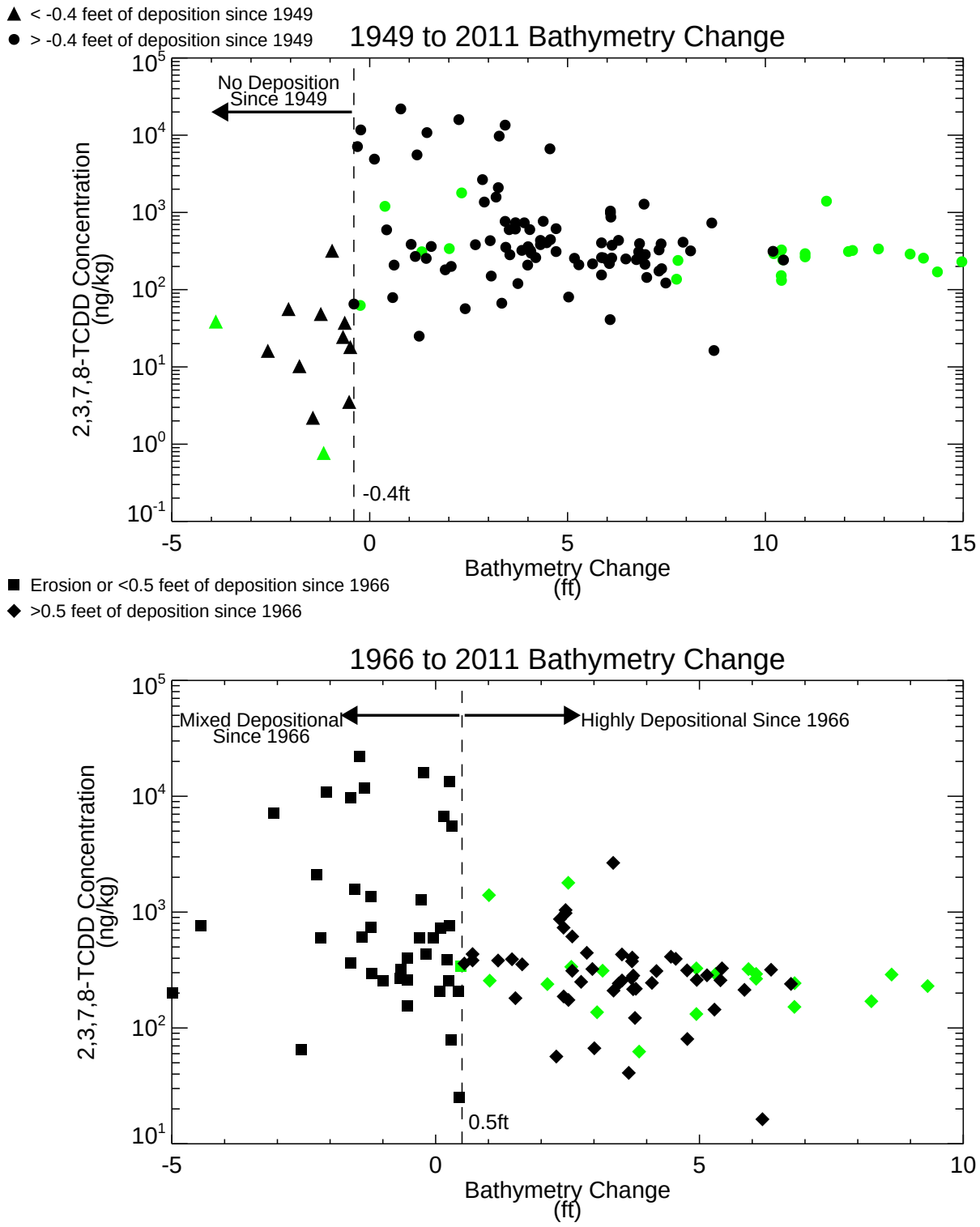


Note: Includes data from 2005-2013. Shoal category is composed of left and right shoal groupings.

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Figure 3-2

Distribution of Surface Sediment 2,3,7,8-TCDD Concentration Between RM 0 and 17.4 by Geomorphic Group

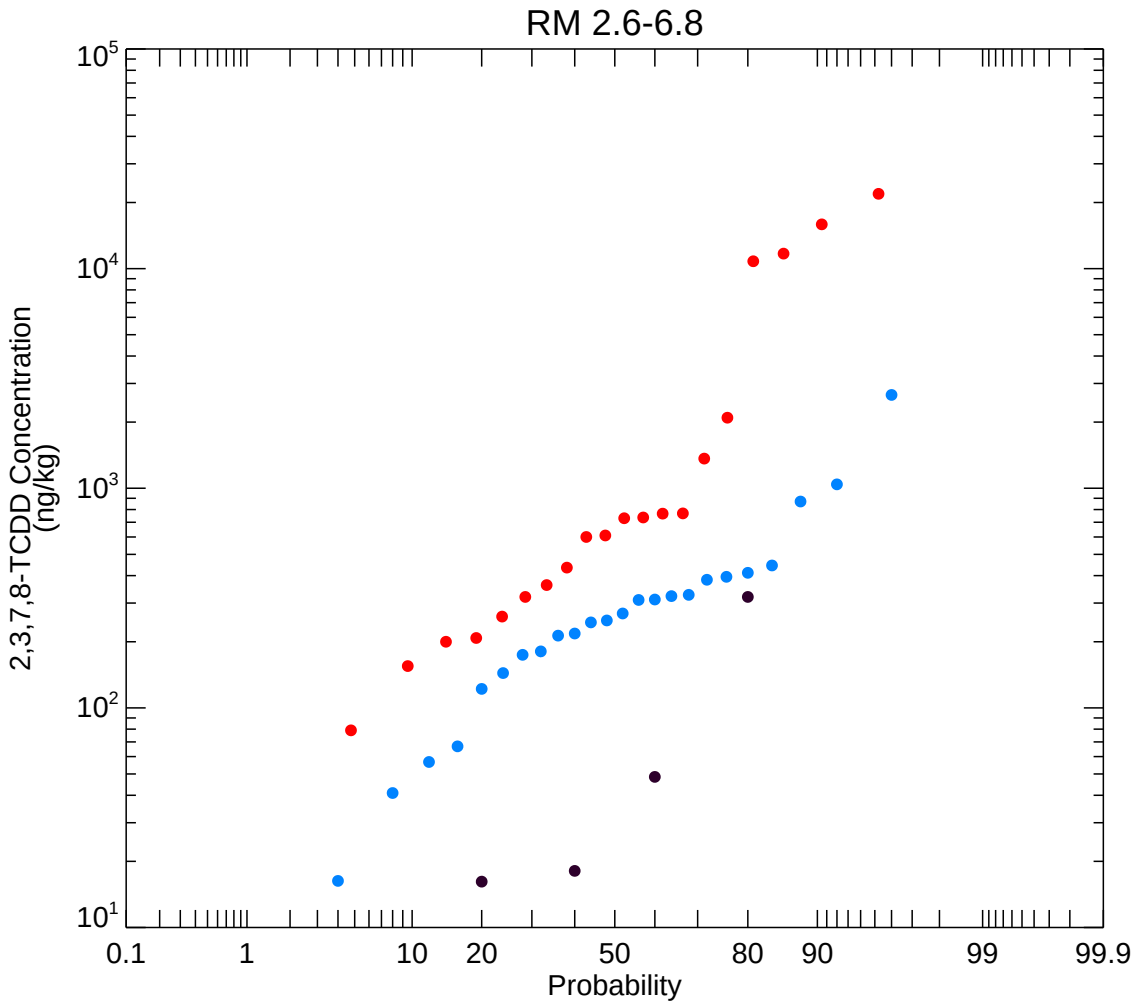


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Figure 3-3

2,3,7,8-TCDD Surface Concentration Versus Bathymetry Change

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



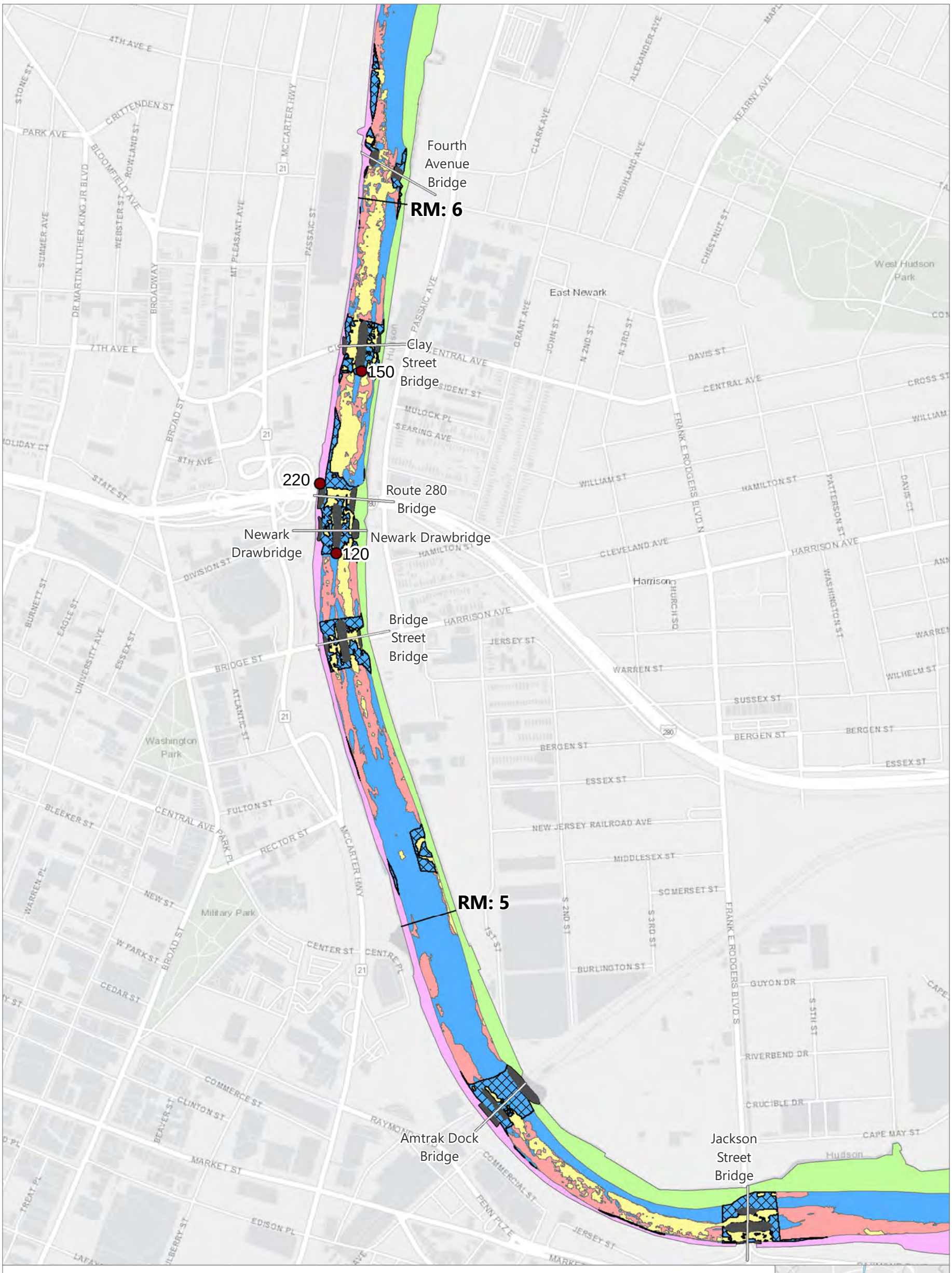
Note: Includes data from 2005-2013. Excludes data in the shoals

- No Deposition Since 1949
- Mixed Depositional Since 1966
- Highly Depositional Since 1966

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Figure 3-4

Distribution of Surface 2,3,7,8-TCDD Concentration of Channel Geomorphic Groups Between RM 2.6 and 6.8



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Figure 3-5a

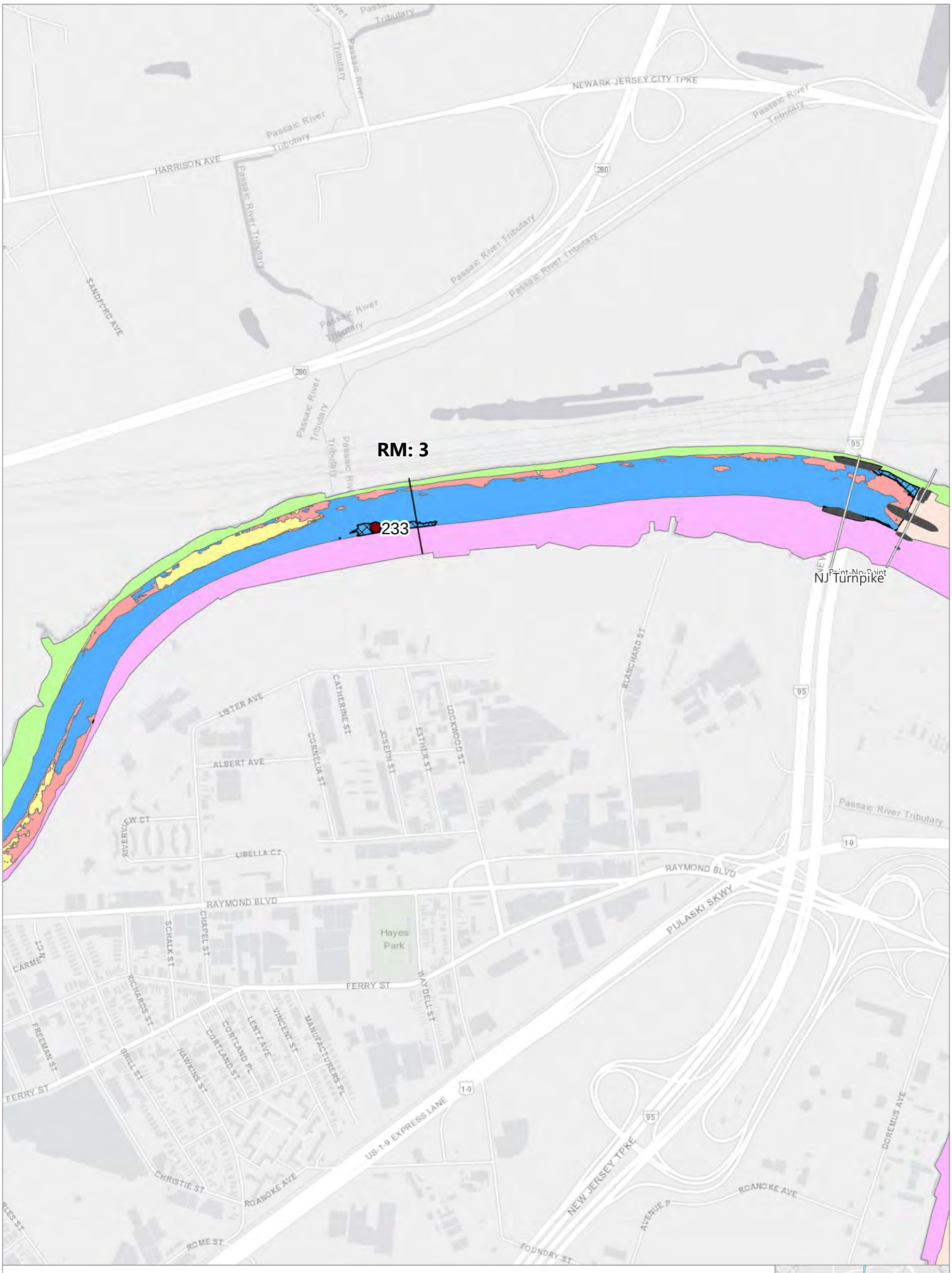
Areas Without 1966 to 2011 Bathymetry Difference, Which Were Assigned to "Highly Depositional Since 1966"

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-5b
Areas Without 1966 to 2011 Bathymetry Difference, Which Were Assigned to "Highly Depositional Since 1966"
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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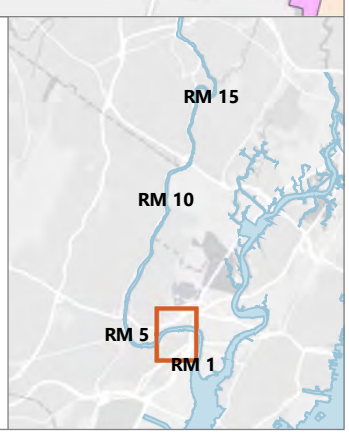
- Sample Location (ng/kg)
- Bridge
- Bridge Abutment
- Area without 1966 to 2011 Bathymetry Difference

Geomorphic Group

- Left Shoal
- Right Shoal LPR
- Highly Depositional Since 1966
- Mixed Depositional Since 1966
- No Deposition Since 1949
- Downstream LPR and Newark Bay Channel

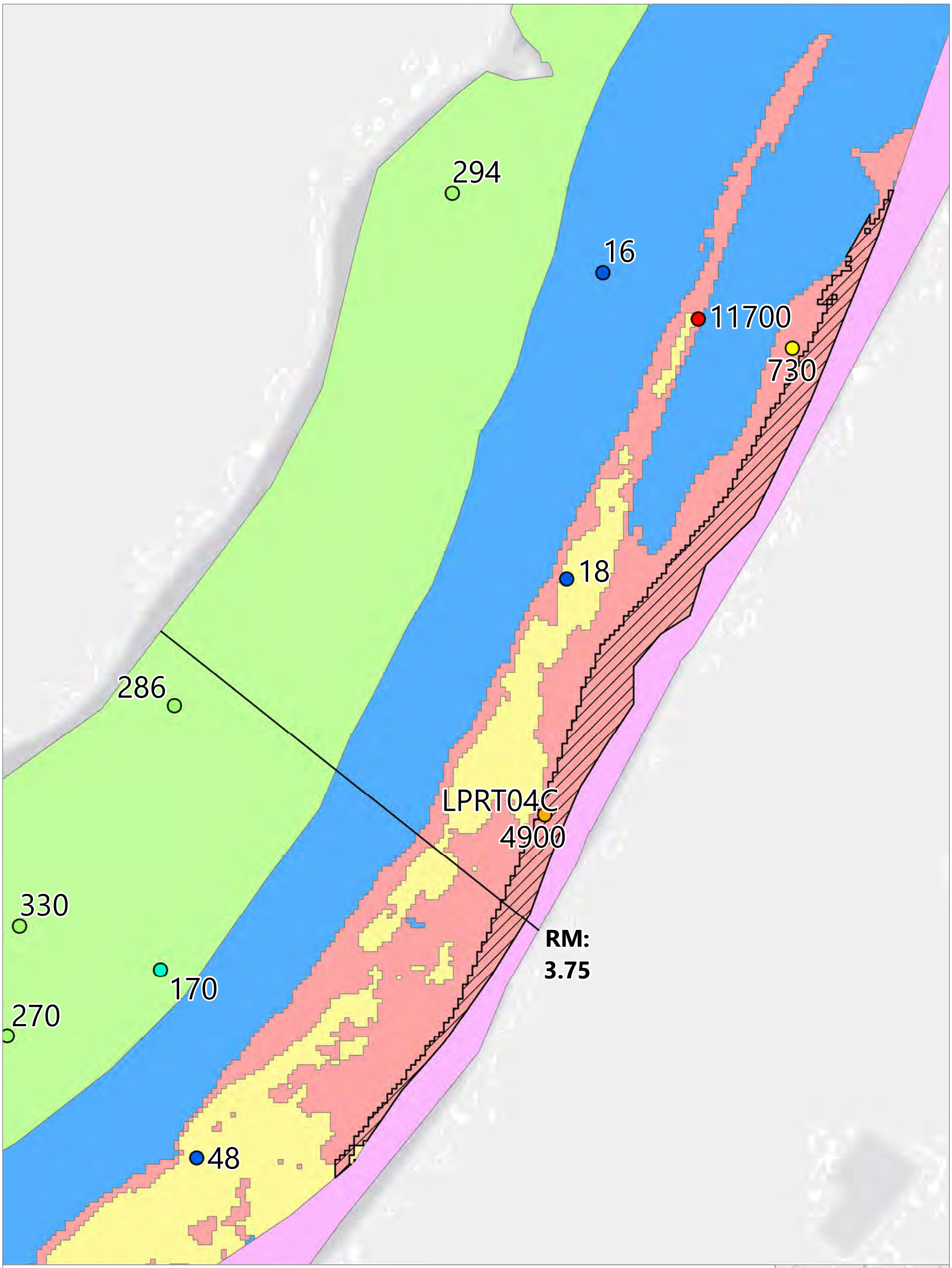
NOTE(S):
Only samples within the highlighted areas with no bathymetry difference between 1966-2011 were shown above.
Sample locations were labeled with surface 2,3,7,8-TCDD concentrations in ng/kg.
Samples collected between 1995-2013.

0 1,060
Feet



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Figure 3-5c
Areas Without 1966 to 2011 Bathymetry Difference, Which Were Assigned to "Highly Depositional Since 1966"
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

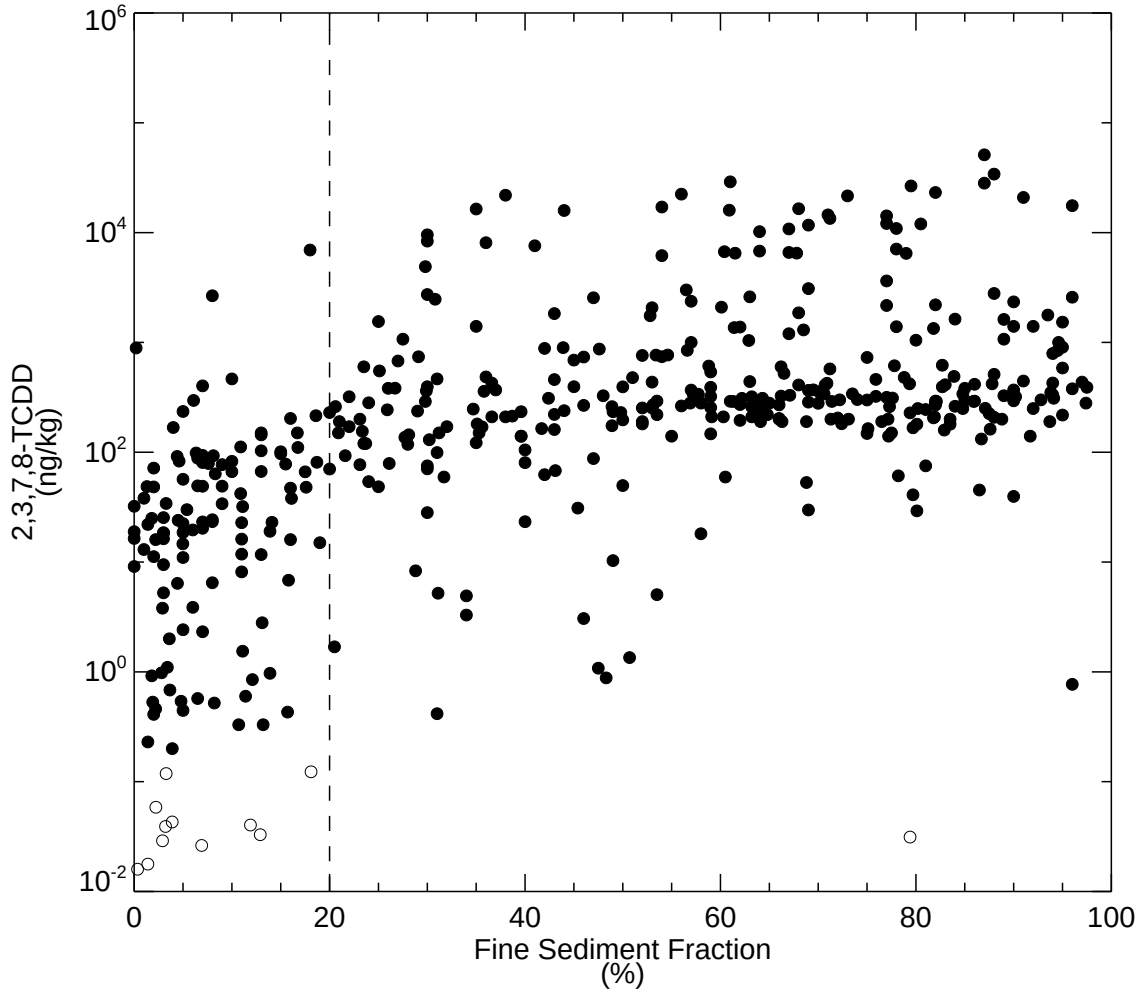


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Figure 3-6

Area Without Historical 1966 Bathymetry Data, Which Was Assigned to "Mixed Depositional Since 1966"

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Note: Includes data from 2005-2013 between RM 0 and RM 17.4.Surface sediments have bottom depths less than 6 inches.
Non-detect 2,3,7,8-TCDD concentrations plotted as unfilled circles.

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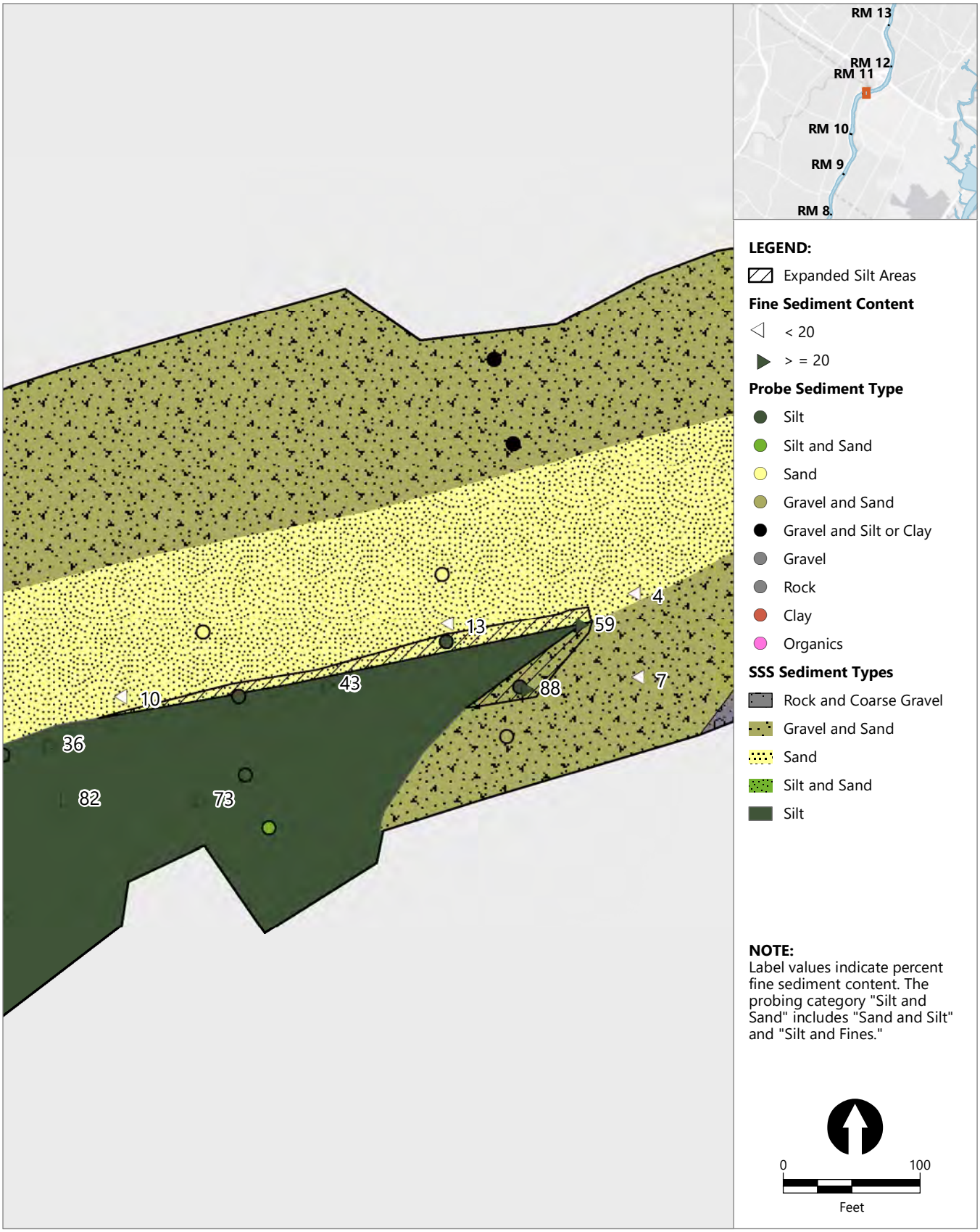
Figure 3-7

2,3,7,8-TCDD Concentrations in Surface Sediments Versus Fine Sediment Content



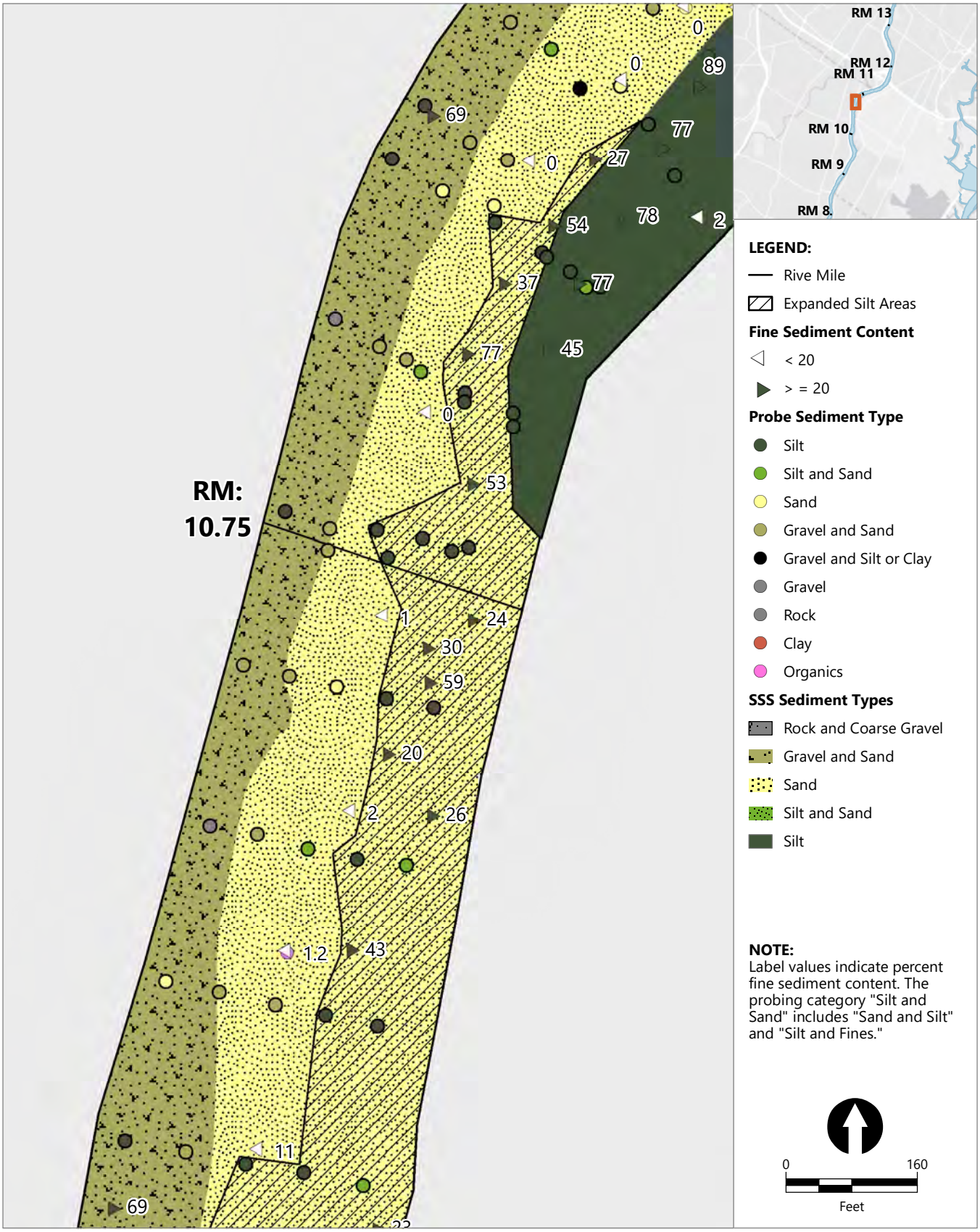
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Figure 3-8a
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



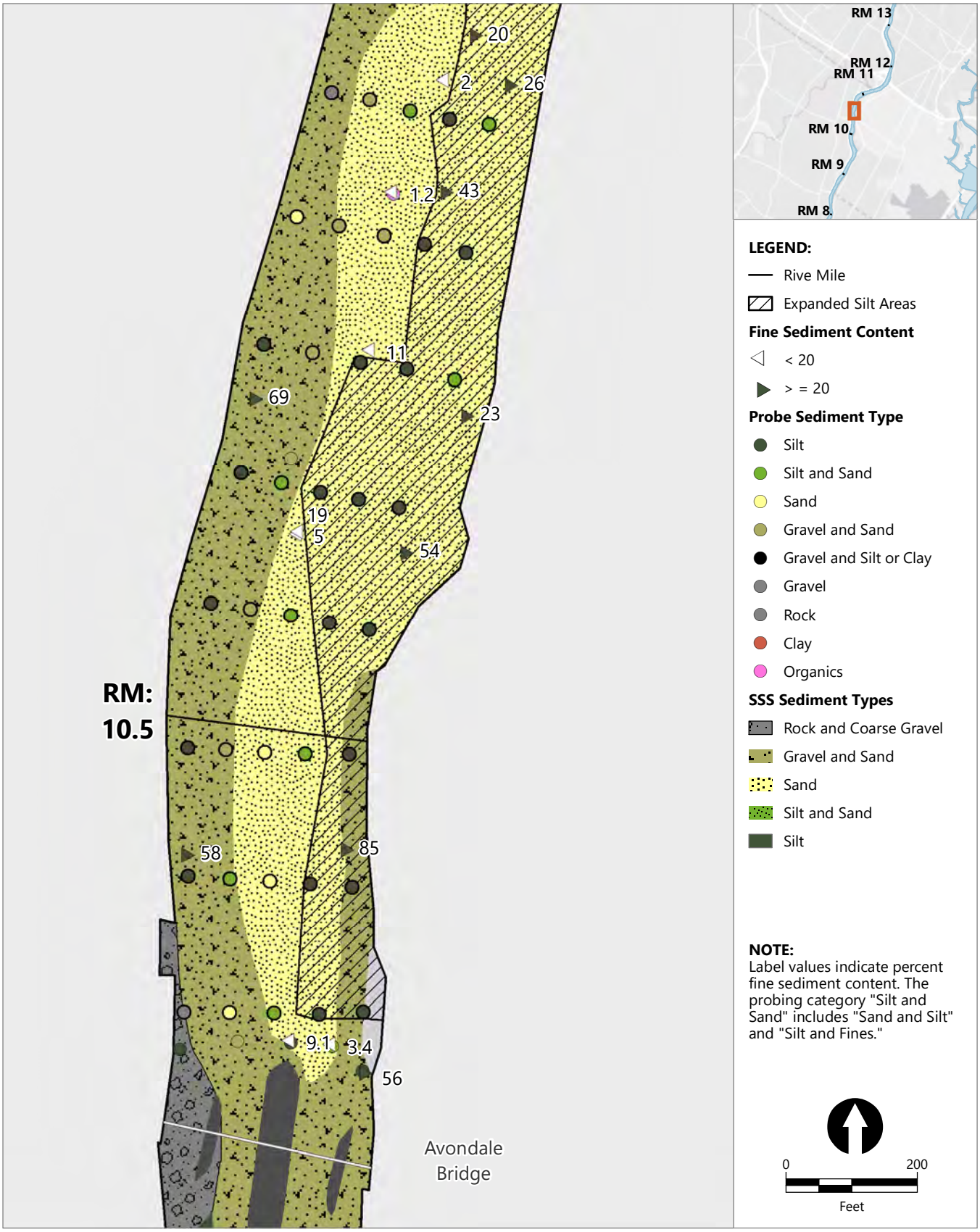
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Figure 3-8b
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



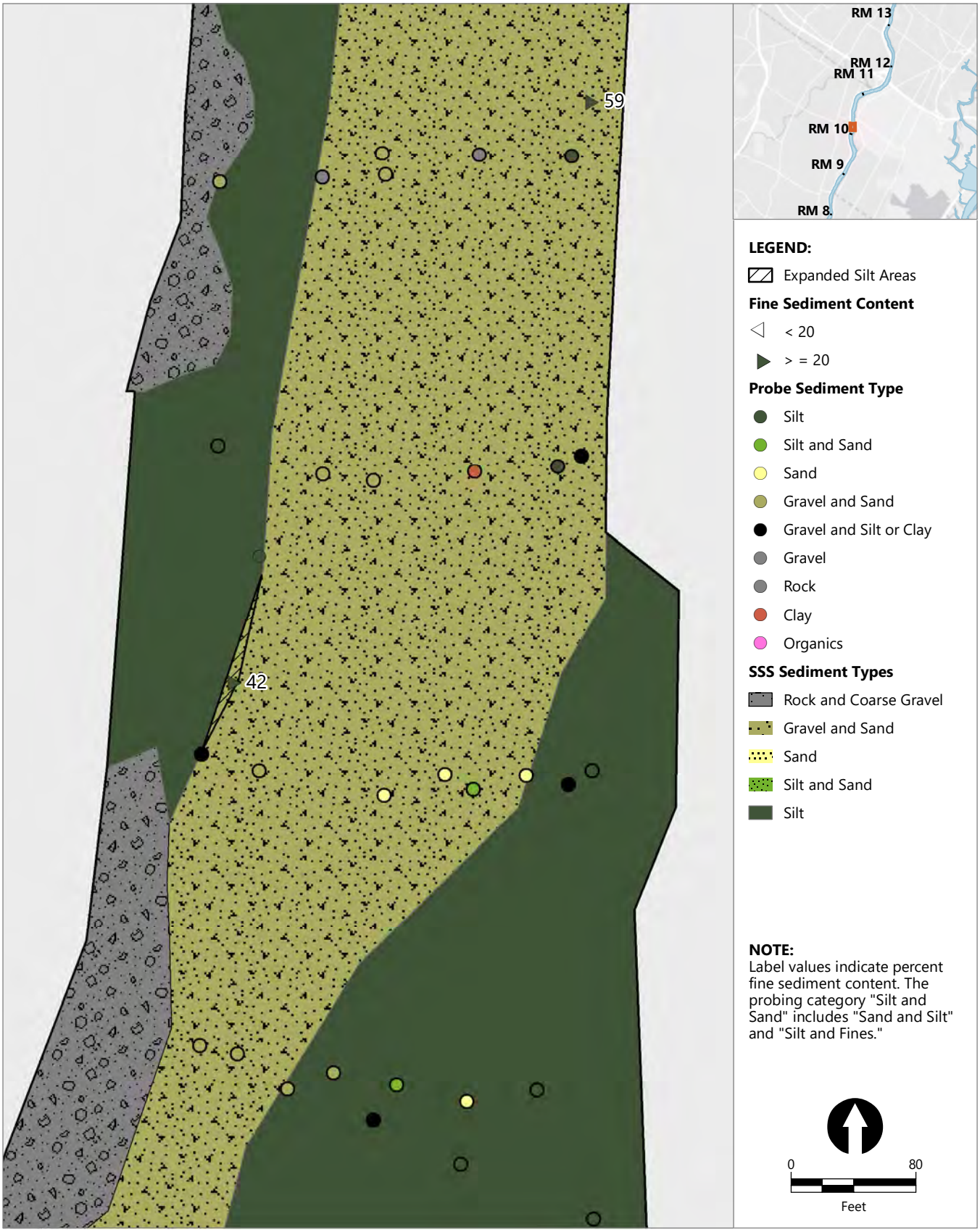
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Figure 3-8c
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-8d
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



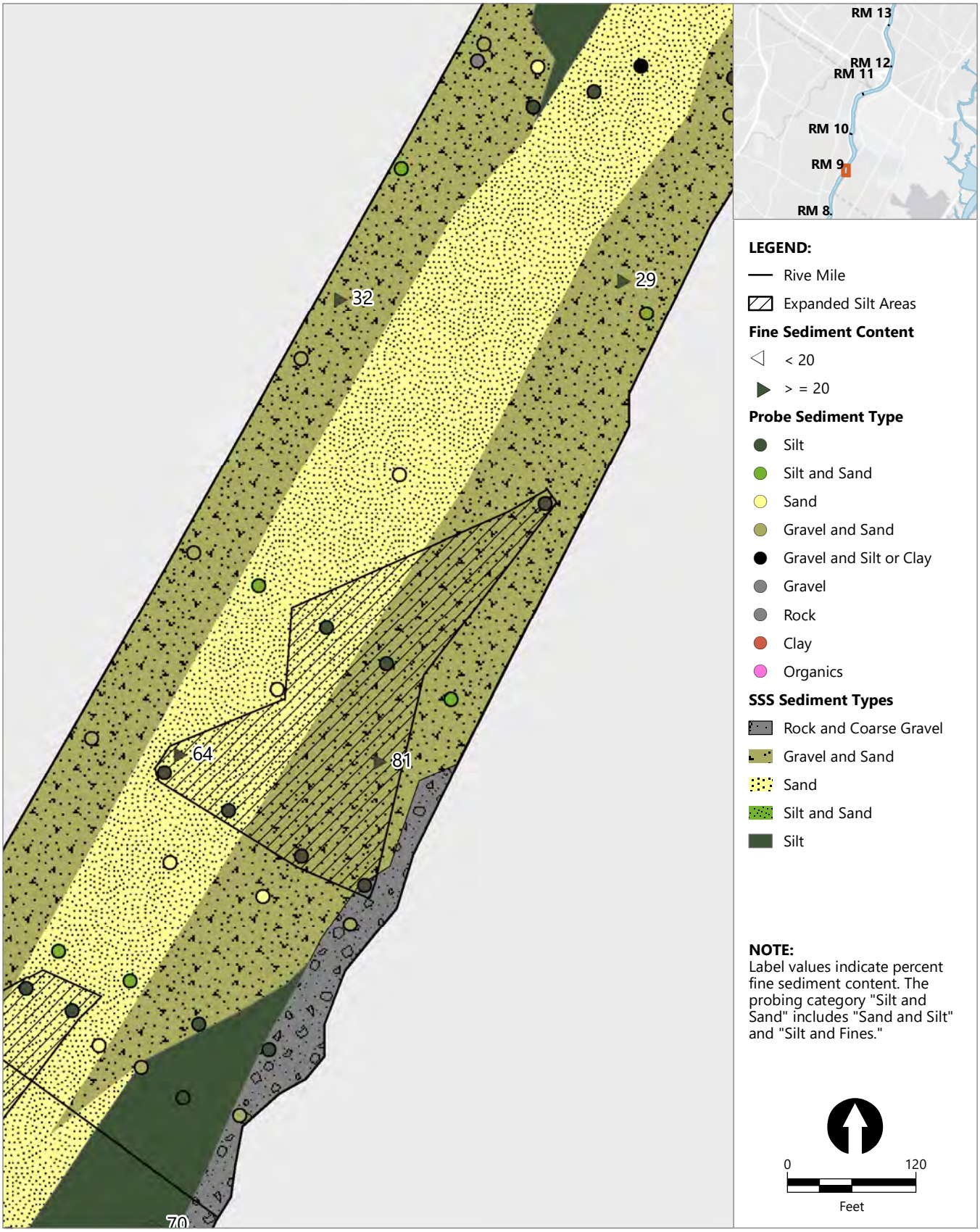
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Figure 3-8e
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-8f
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



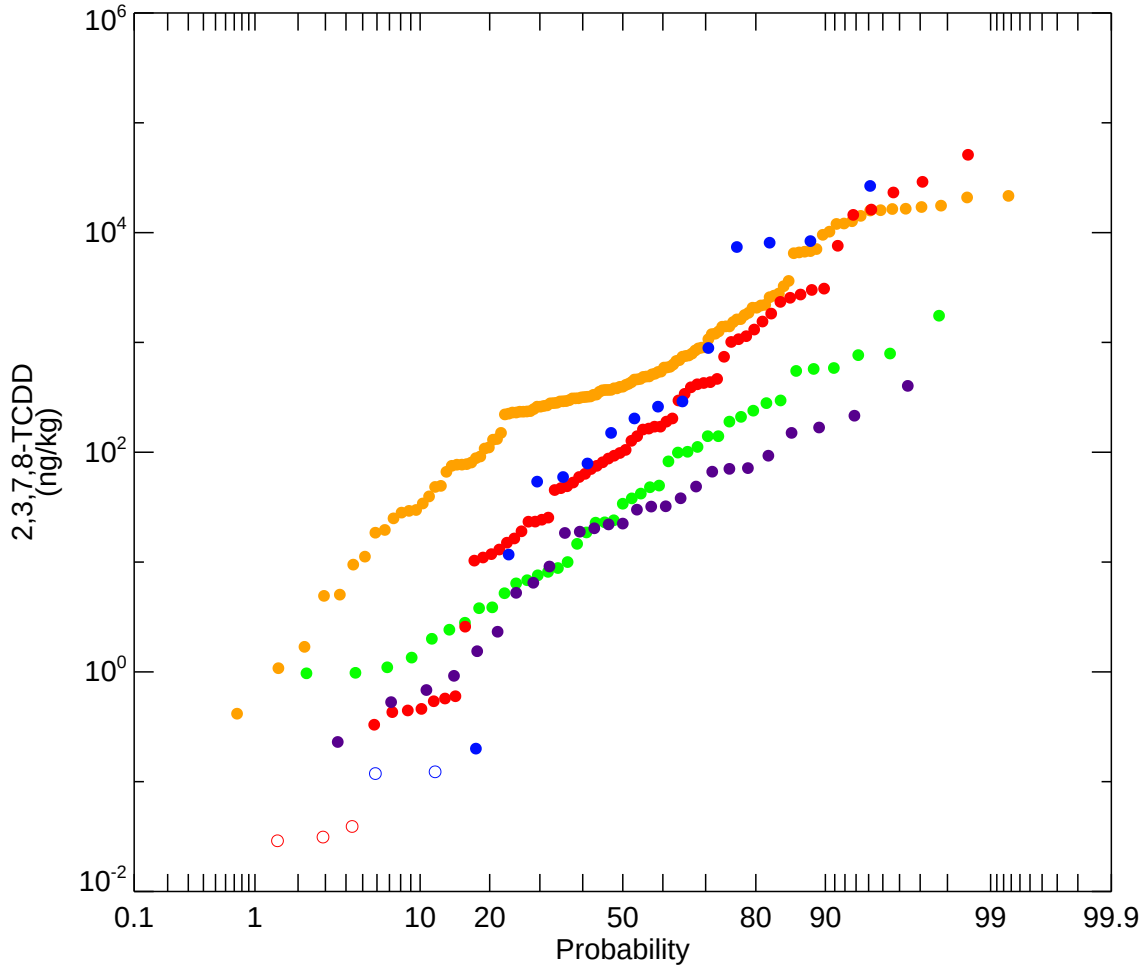
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Figure 3-8g
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-8h
Silt Areas Delineated/Expanded Based on Probing and Fine Sediment Content Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Note: Sediment types based on expanded silt areas and 2005 SSS survey. Includes data from 2005-2013.
Hollow circles denote non-detect concentrations.

- Silt
- Silt and Sand
- Gravel and Sand
- Rock and Coarse Gravel
- Sand

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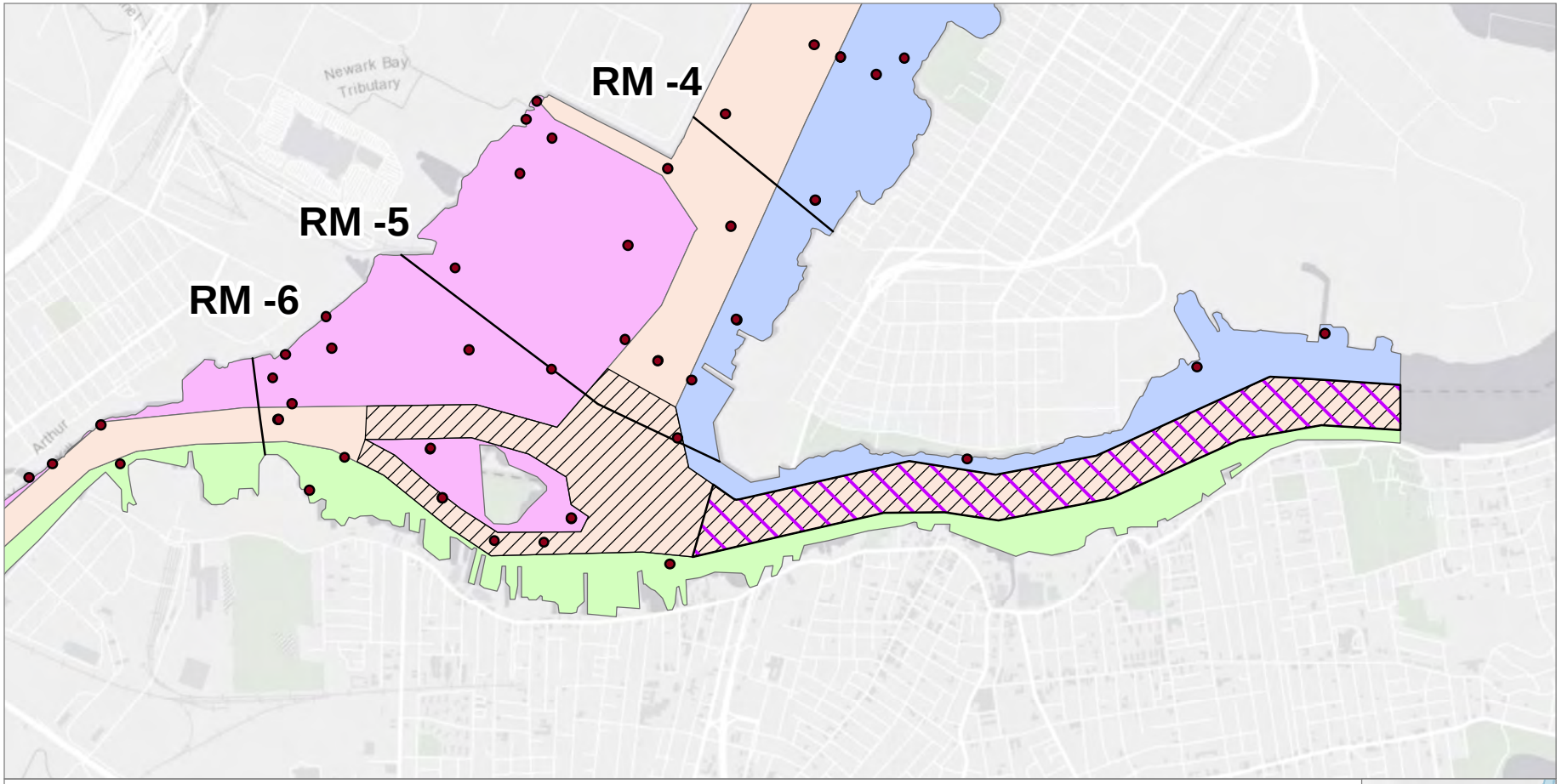
Figure 3-9

Distribution of Surface Sediment 2,3,7,8-TCDD Concentrations by Sediment Type: RM 17.4 to RM 7.8



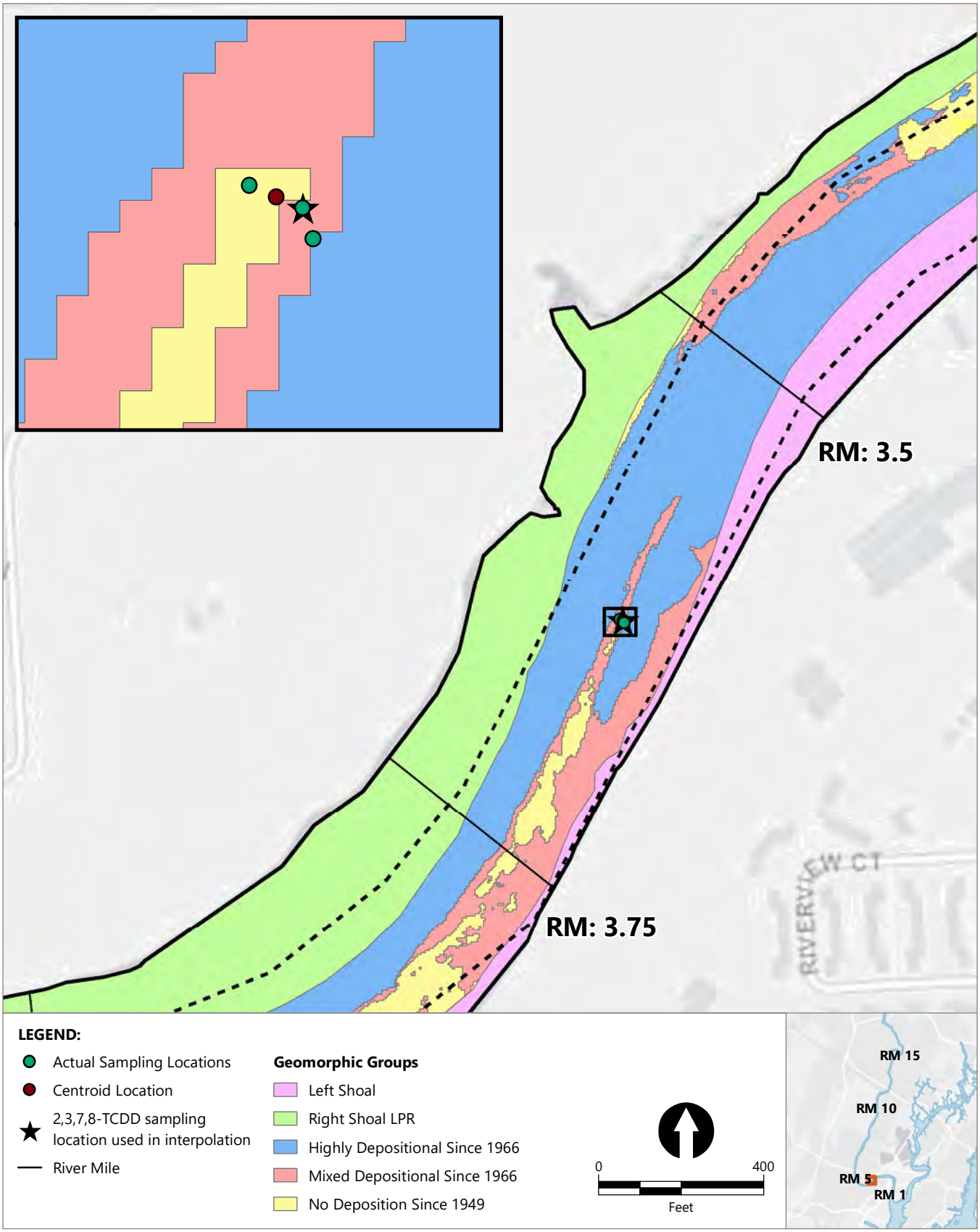
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Figure 3-10
Surface Sediment 2,3,7,8-TCDD Data in the Nearshore Portion of the RM 10.9 Silt Deposit
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



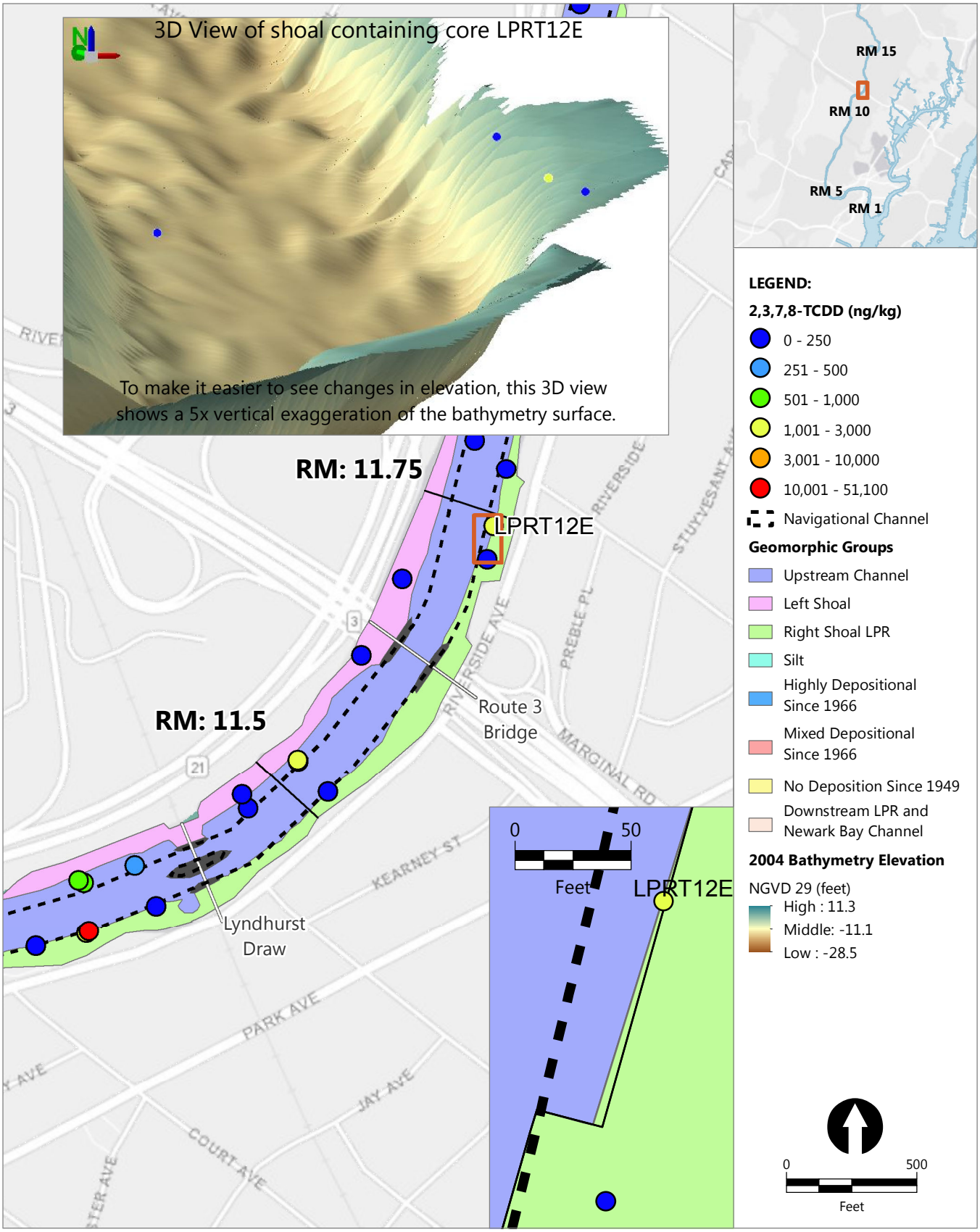
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Figure 3-11
Kill Van Kull Channel Averaging
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Figure 3-12
Location Used for Core 12A-0427 in Mapping
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-13
Adjustment to Shoal Boundary Near RM 11.75
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-14a
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Figure 3-14b
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-14c
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-14d
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



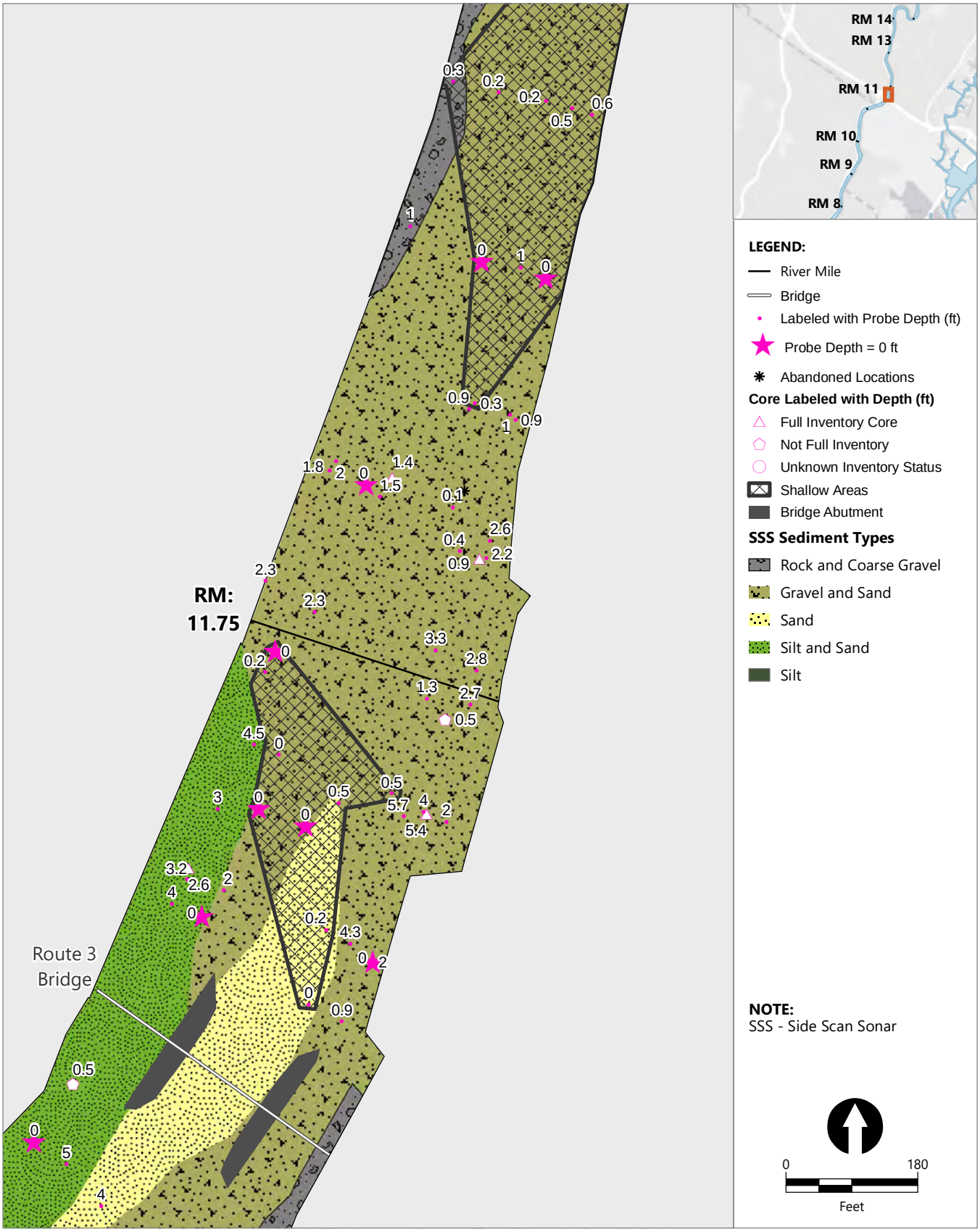
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Figure 3-14e
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 3-14f
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Figure 3-14g
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



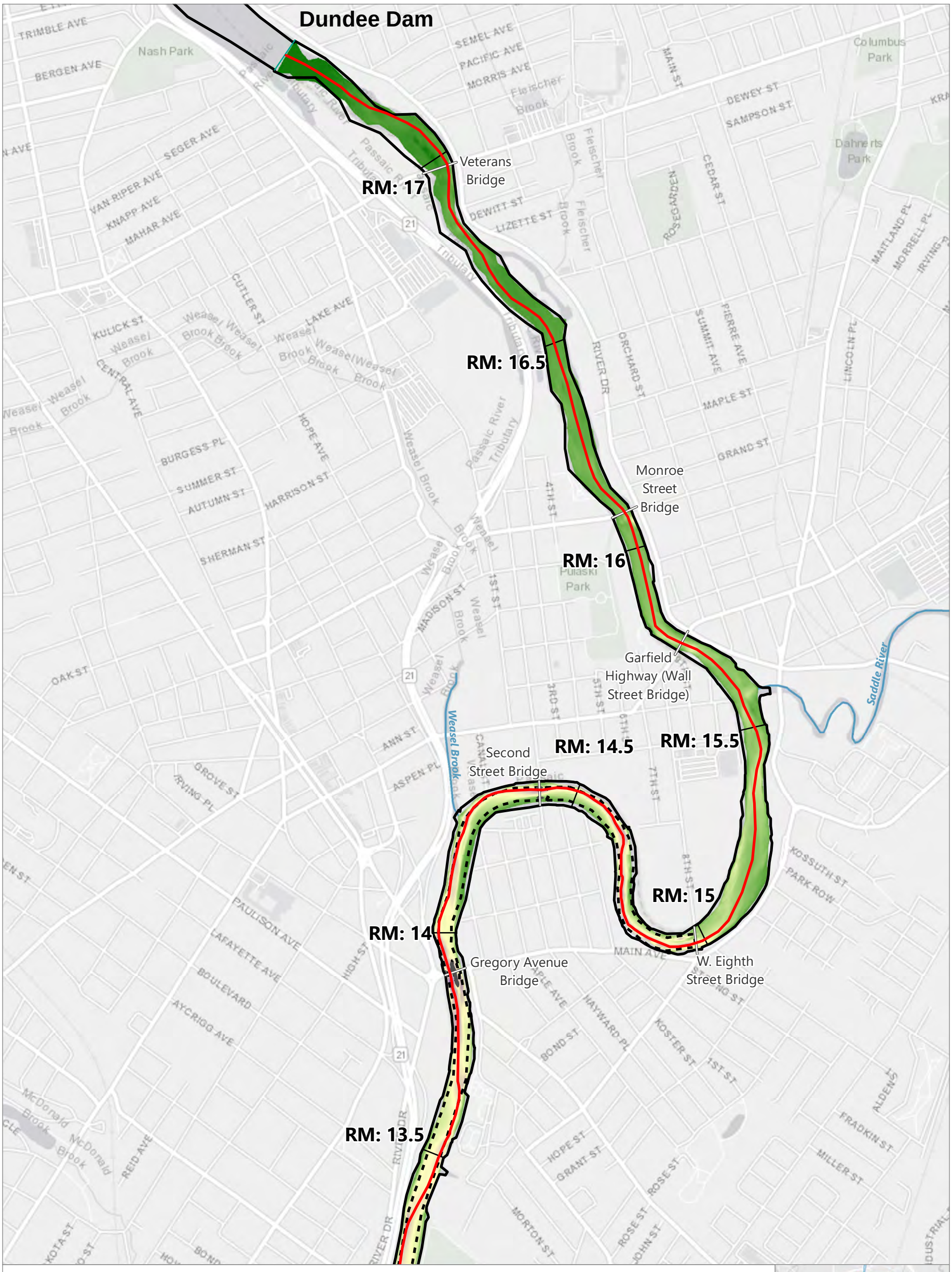
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Figure 3-14h
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Figure 3-14i
Shallow Sediment Areas Delineated Based on Probing Depth and Core Depth Data
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Figure 5-1a
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

RM: 15.5

RM: 14.5

Second Street Bridge

RM: 15

RM: 14

Gregory Avenue Bridge

W. Eighth Street Bridge

RM: 13.5

RM: 13

Douglas O. Mead Bridge

Weasel Brook

Saddle River

Passaic

Rutherford Memorial Park

LEGEND:

- Thalweg
- Tributaries
- Bridge Abutment
- Navigational Channel
- Shoreline

Bathymetry Change (feet)

High : 11.3
Middle: -11.5
Low : -41.5

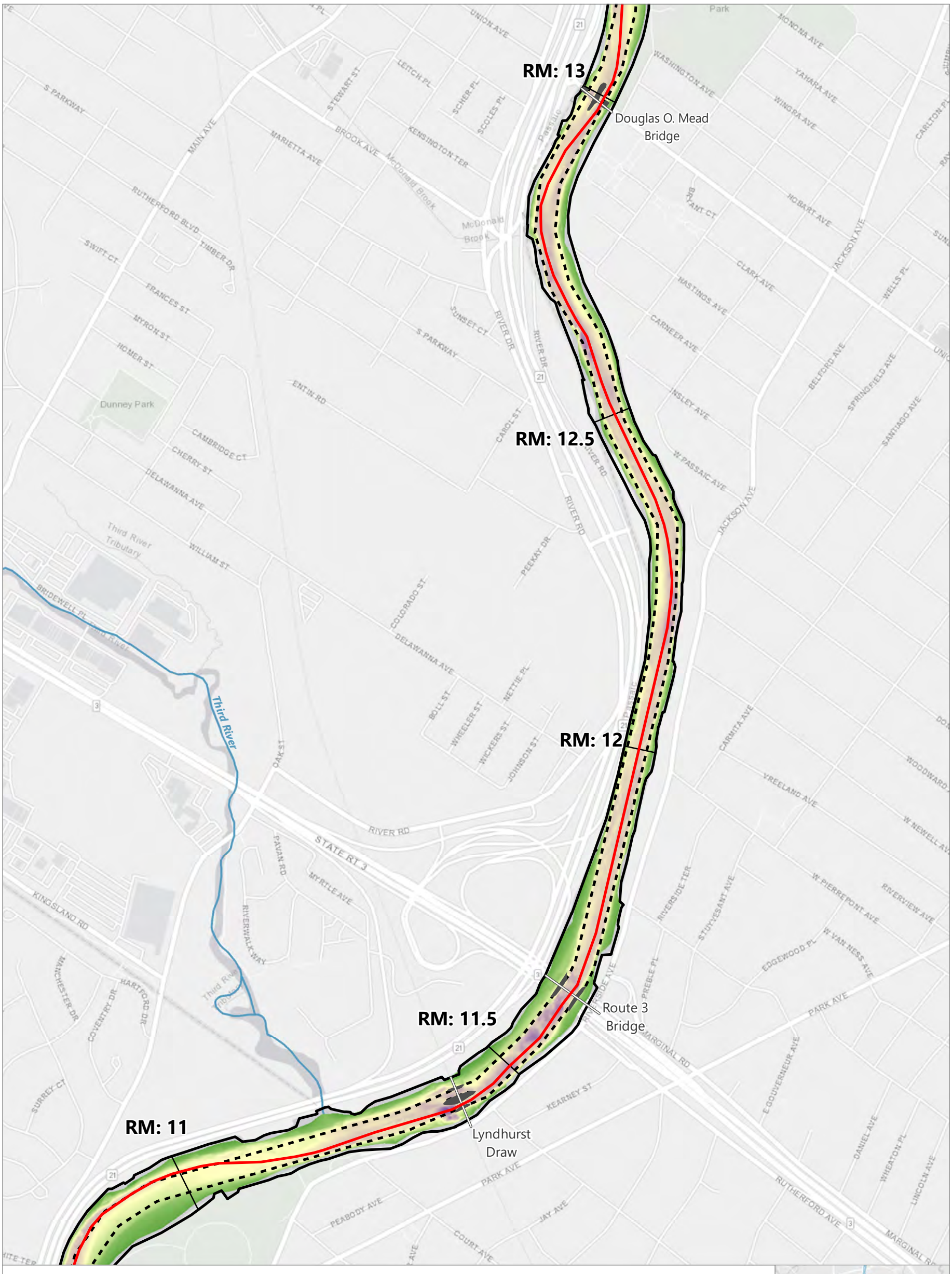
NOTE:
Combines 2011 bathymetry downstream of RM14.25 with 2004 bathymetry upstream of RM14.25 and in some shoal areas.

0 700
Feet

RM 15
RM 10
RM 5
RM 1

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Figure 5-1b
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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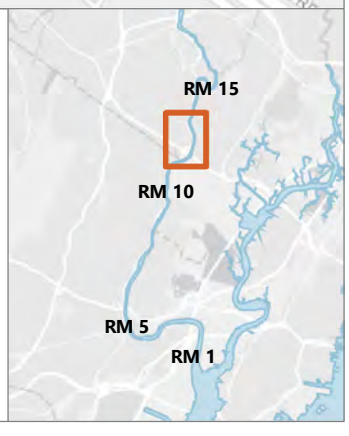
- Thalweg
- Tributaries
- Bridge Abutment
- Navigational Channel
- Shoreline

Bathymetry Change (feet)

High : 11.3
Middle: -11.5
Low : -41.5

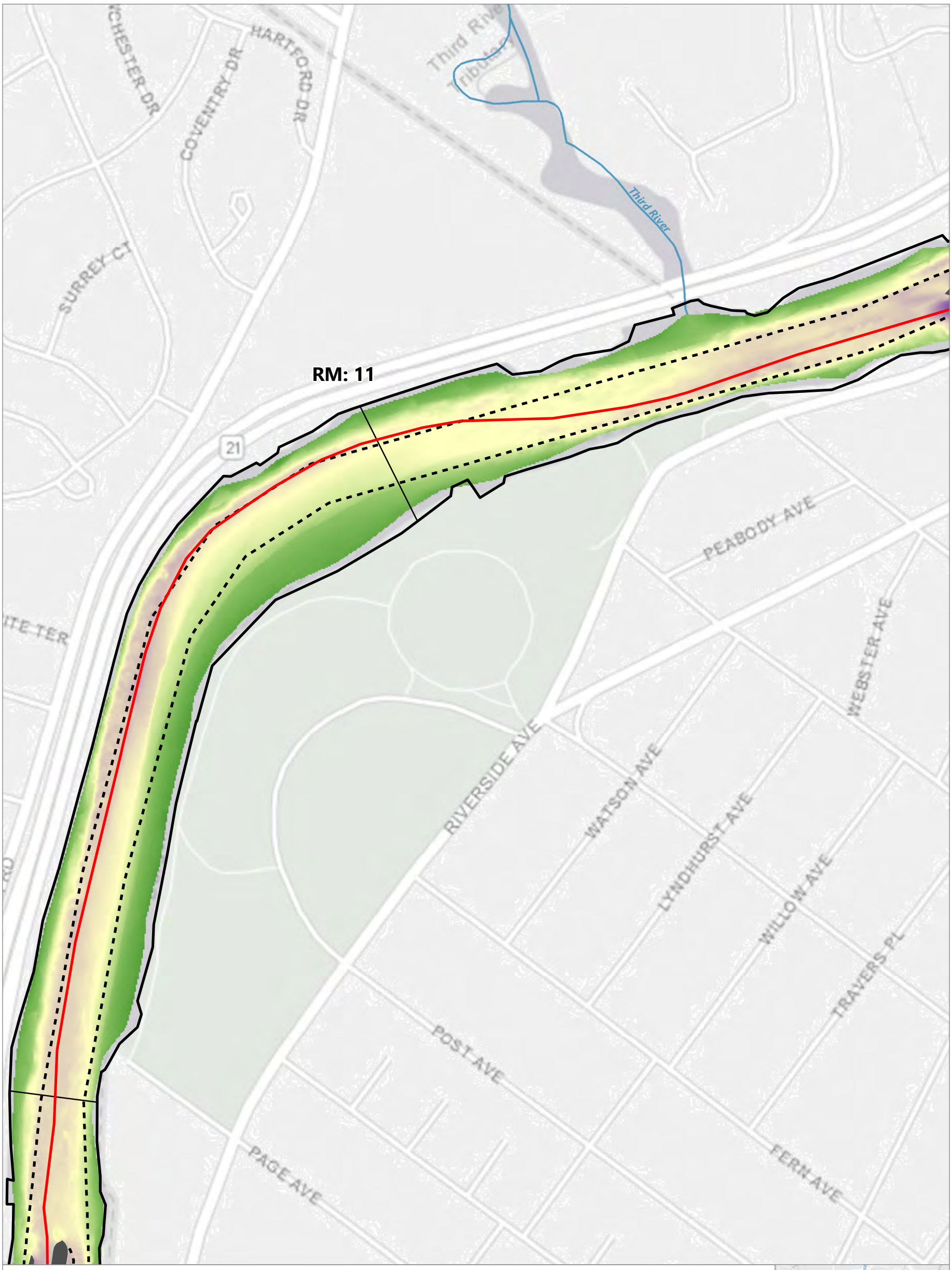
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0 820
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Figure 5-1c
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-1d
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

RM: 10.5

RM: 10

RM: 9.5

RM: 9

Avondale Bridge

Unnamed Tributary

Father Glotzbach Park

Monsignor Owens Park

Riverside County Park

LEGEND:

- Thalweg
- Tributaries
- Bridge Abutment
- Navigational Channel
- Shoreline

Bathymetry Change (feet)

High : 11.3
Middle: -11.5
Low : -41.5

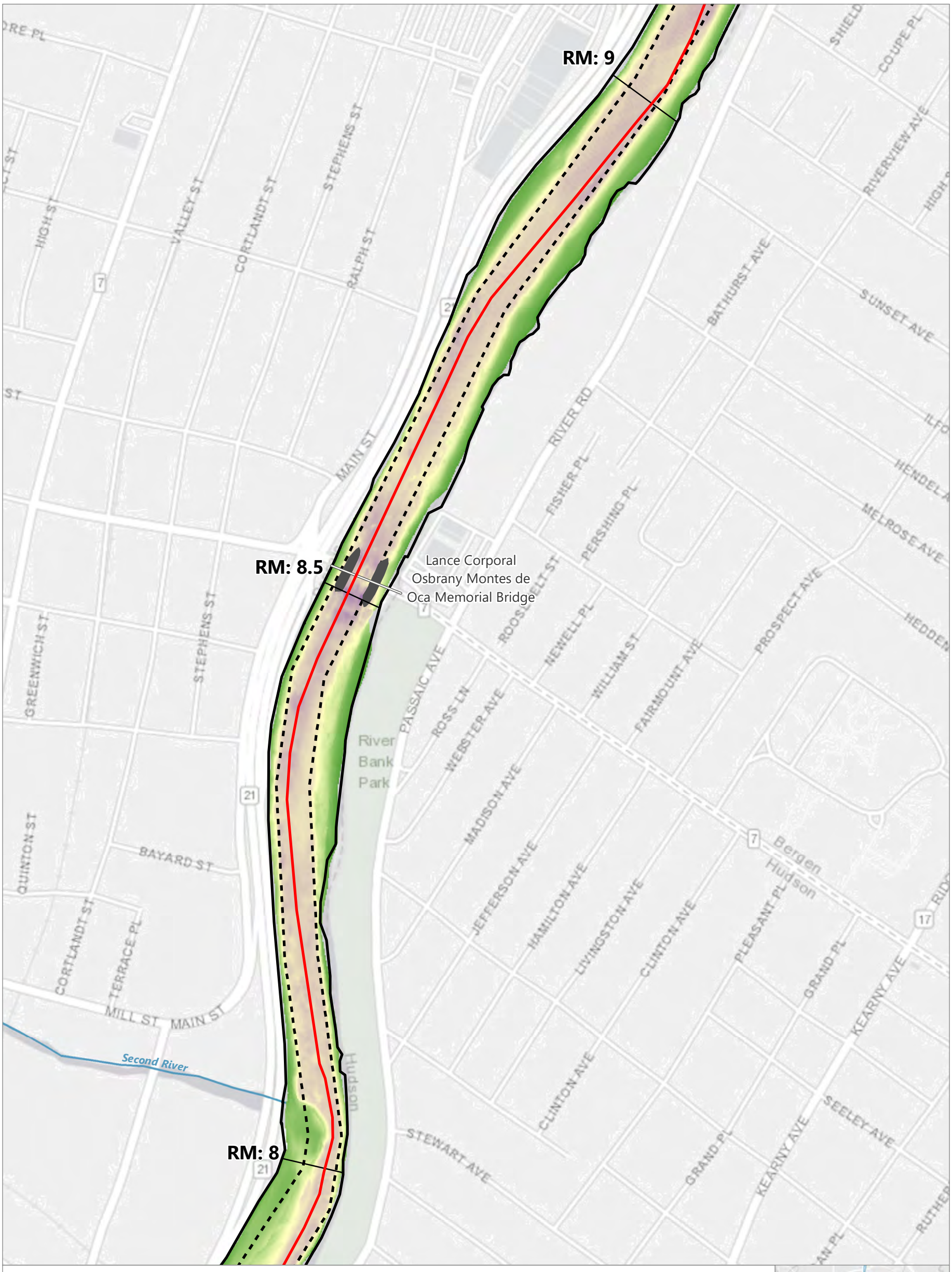
NOTE:
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0 740
Feet

RM 15
RM 10
RM 5
RM 1

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Figure 5-1e
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-1f
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-1g
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

RM: 7

RM: 6.5

RM: 6

RM: 5.5

Fourth Avenue Bridge

Clay Street Bridge

Route 280 Bridge

Newark Drawbridge

River Bank Park

LEGEND:

- Thalweg
- Tributaries
- Bridge Abutment
- Navigational Channel
- Shoreline

Bathymetry Change (feet)

- High : 11.3
- Middle: -11.5
- Low : -41.5

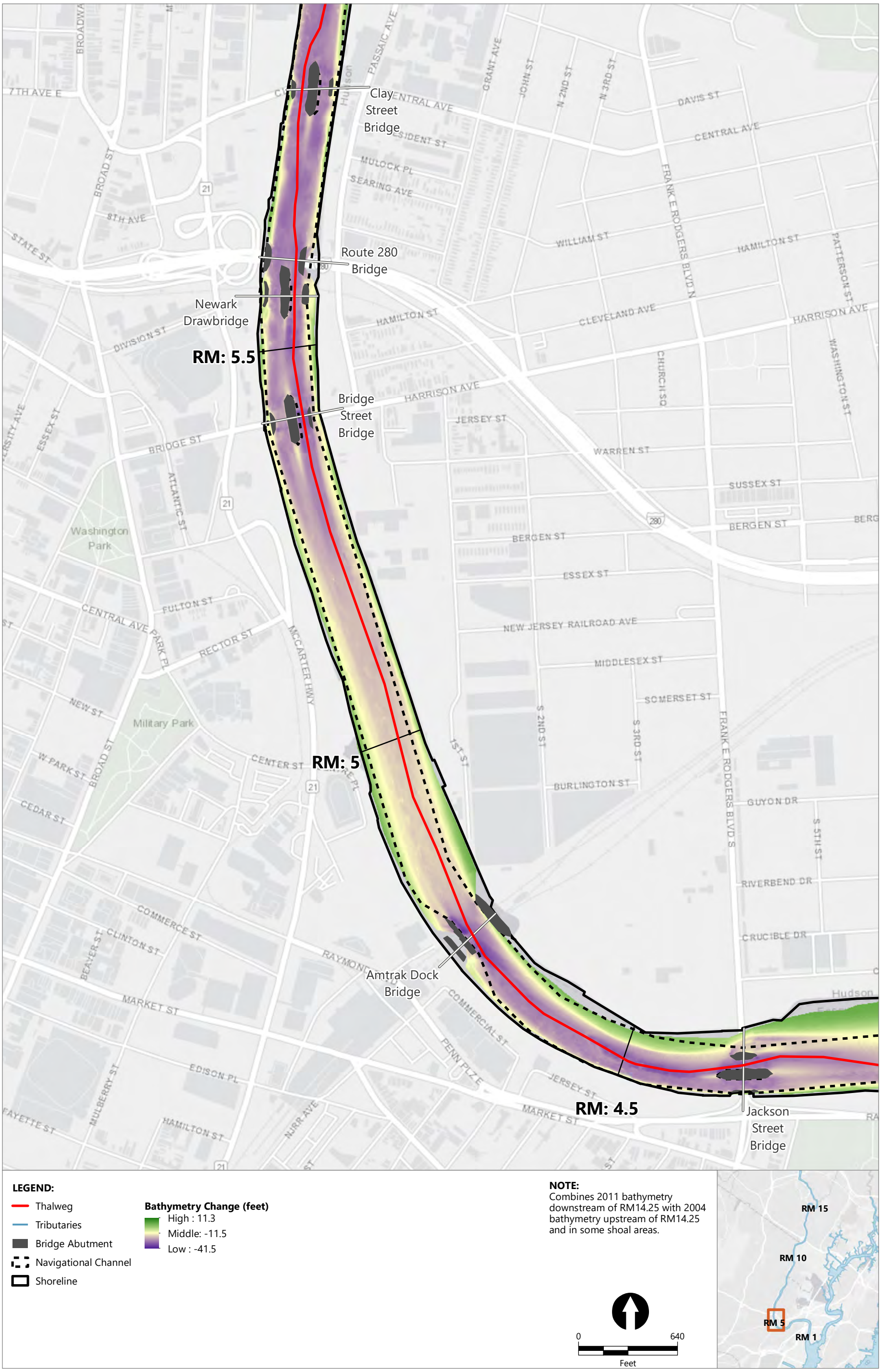
NOTE:
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0 700
Feet

RM 15
RM 10
RM 5
RM 1

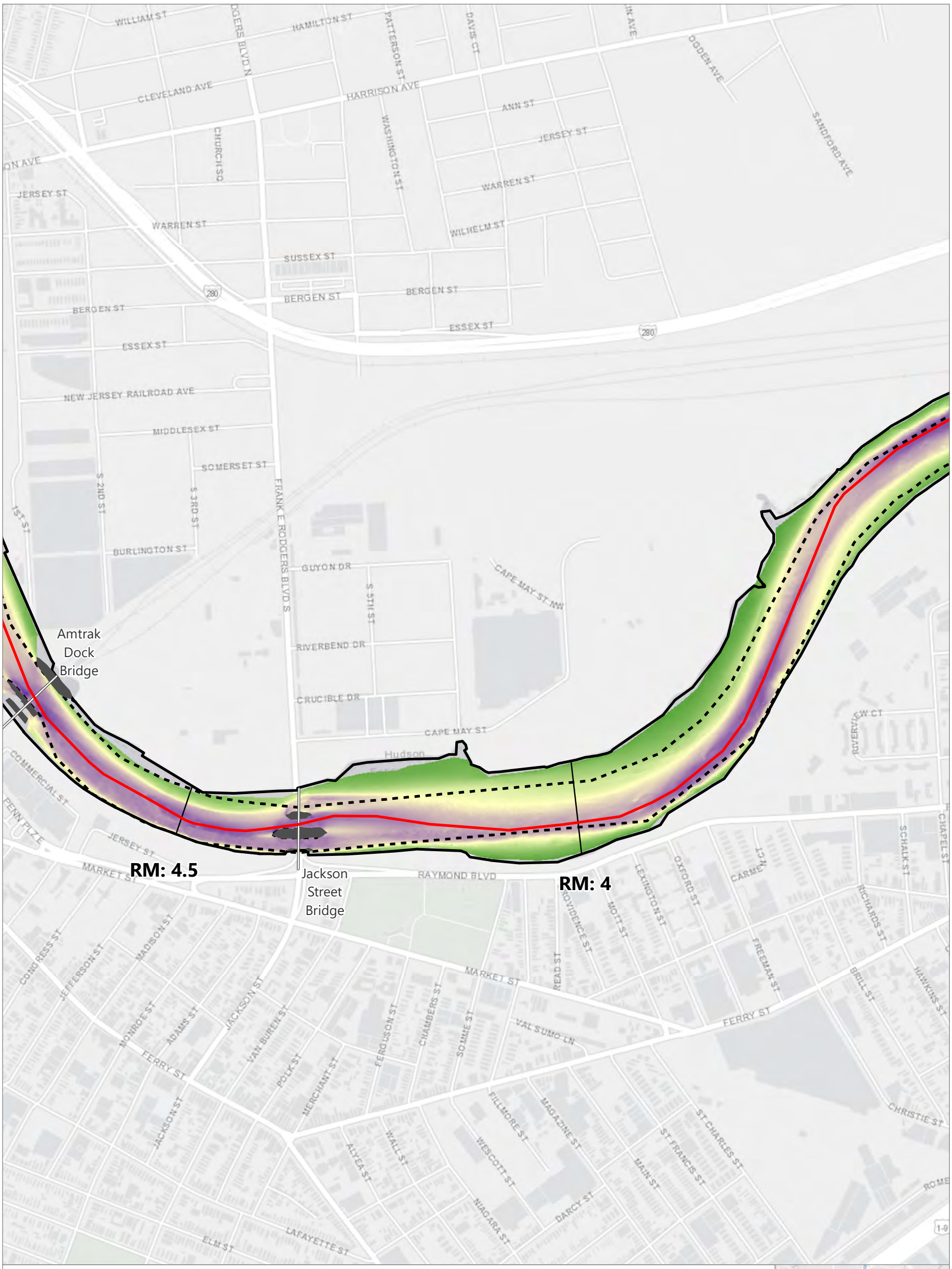
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Figure 5-1h
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-1i
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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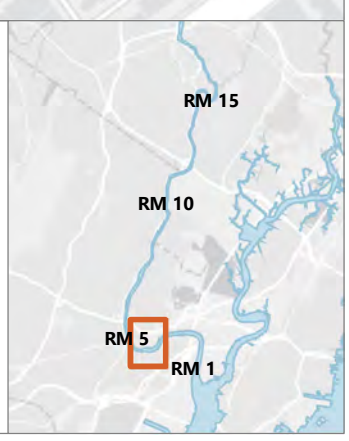
- Thalweg
- Tributaries
- Bridge Abutment
- Navigational Channel
- Shoreline

Bathymetry Change (feet)

High : 11.3
Middle: -11.5
Low : -41.5

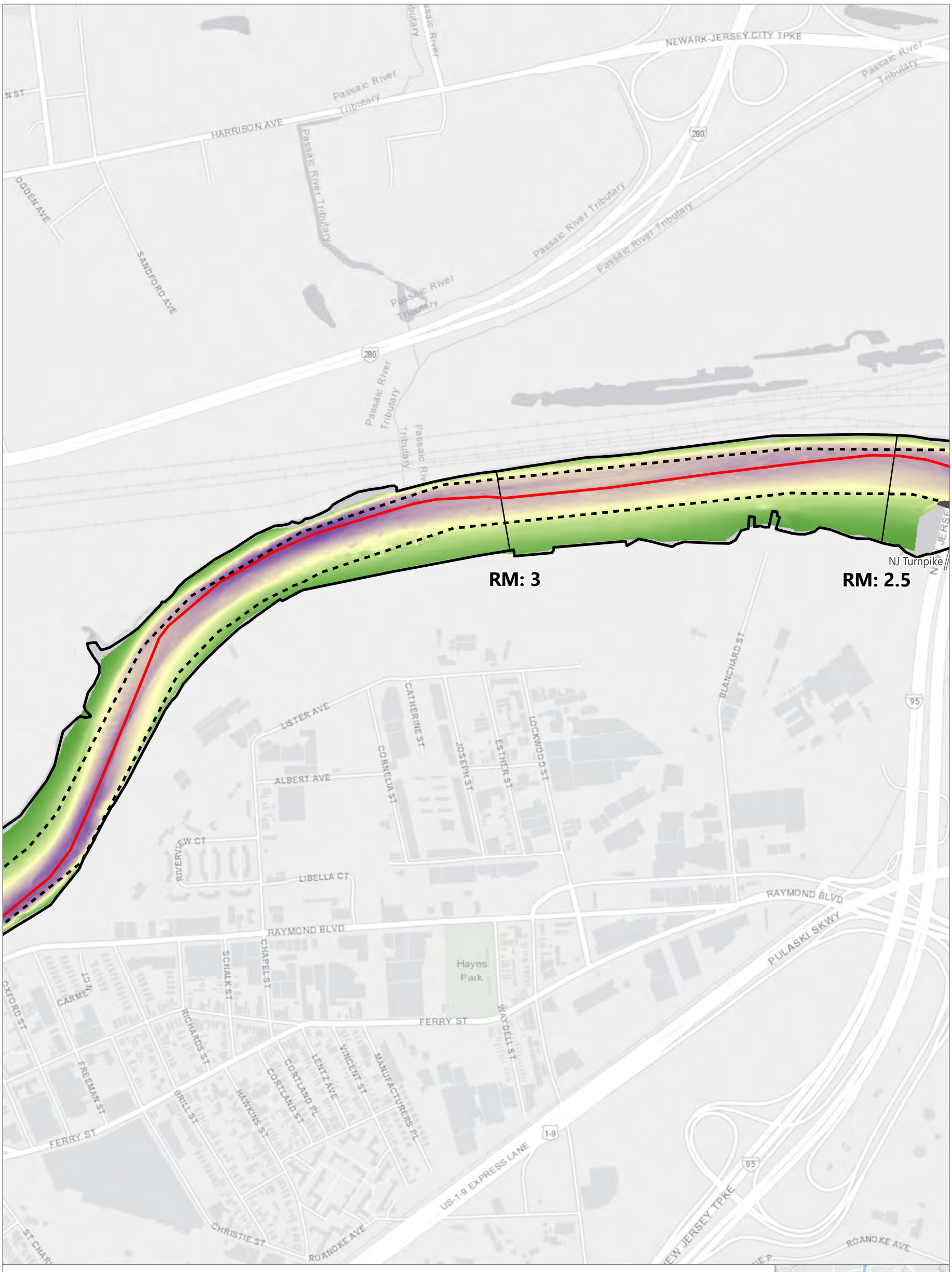
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0 700
Feet



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Figure 5-1j
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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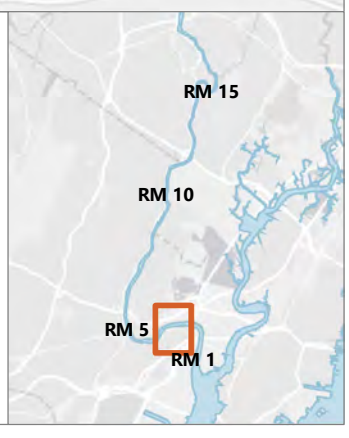
- Thalweg
- Tributaries
- Bridge Abutment
- Navigational Channel
- Shoreline

Bathymetry Change (feet)

High : 11.3
Middle: -11.5
Low : -41.5

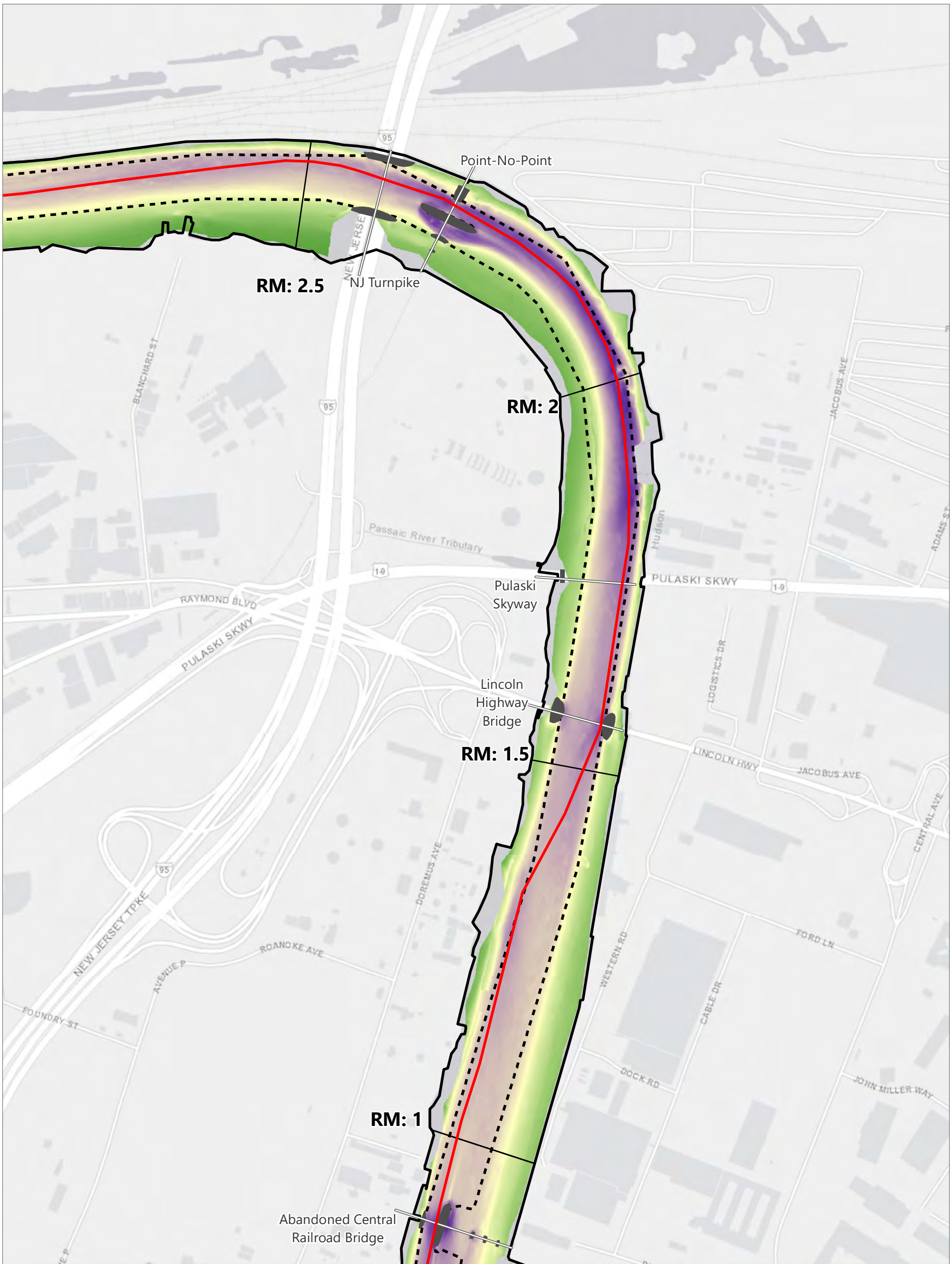
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0 720
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Figure 5-1k
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-1l
2004/2011 Bathymetry with Thalwag
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



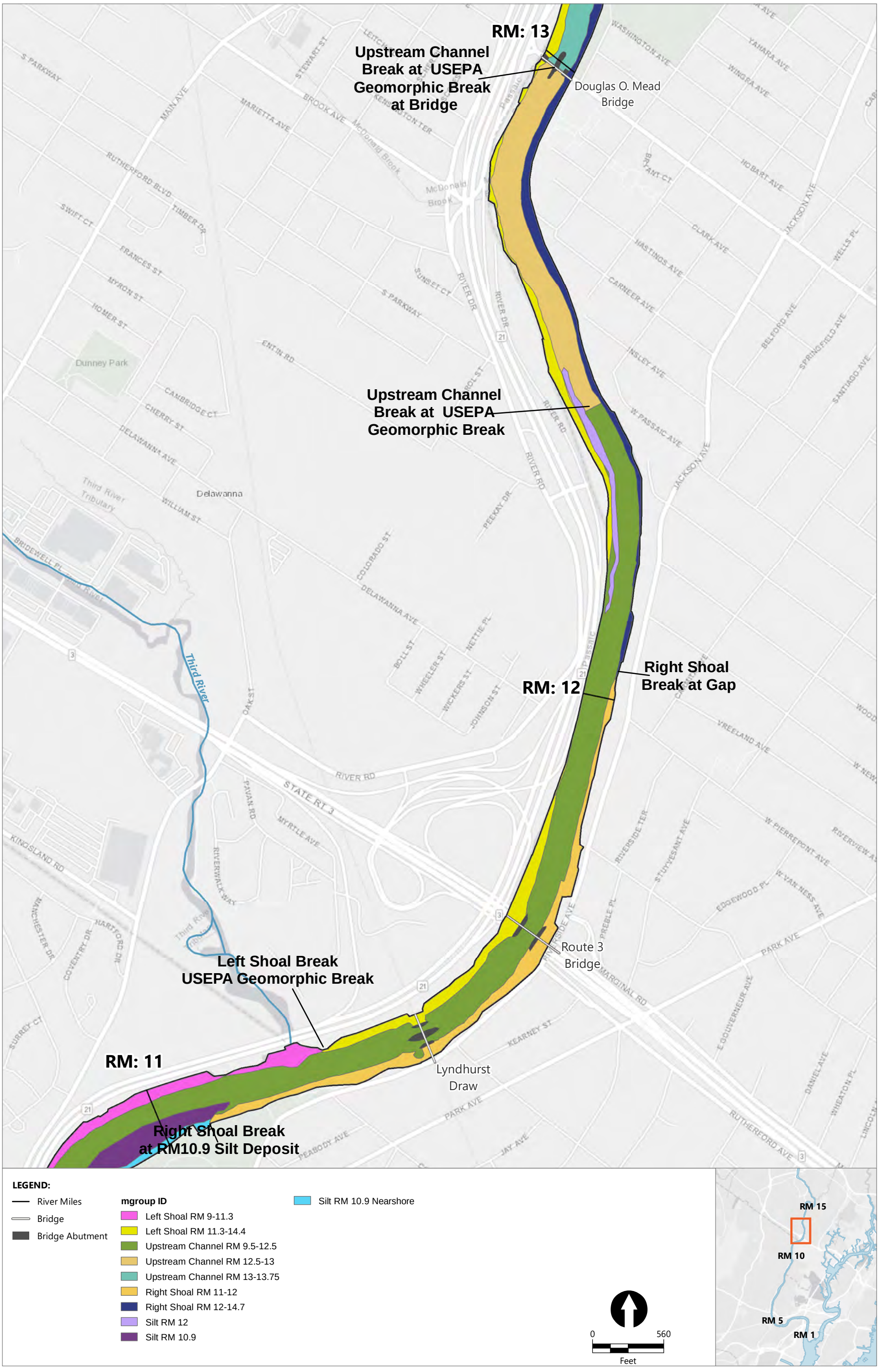
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Figure 5-1m
2004/2011 Bathymetry with Thalwag
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Figure 5-2a
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-2b
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



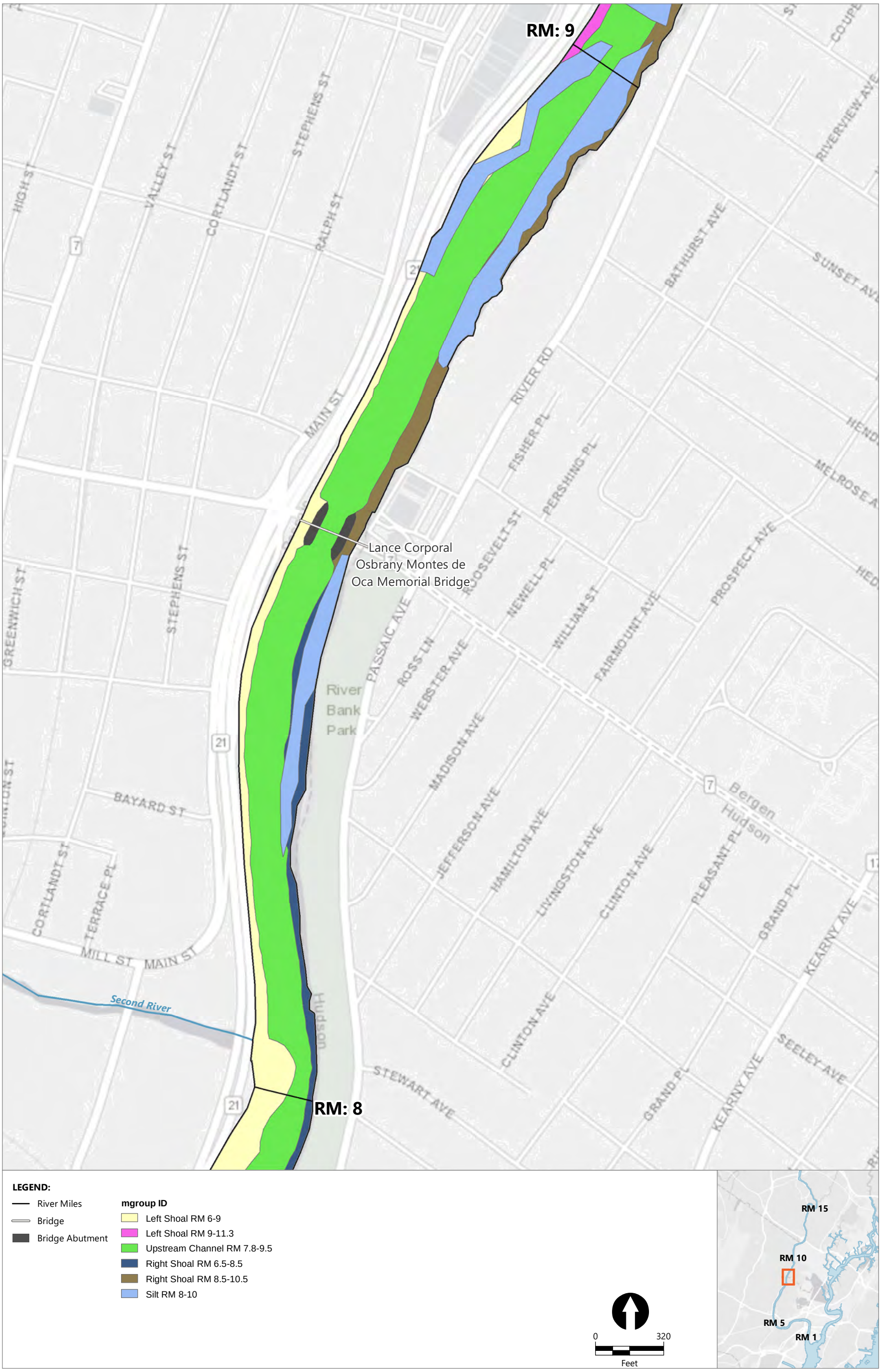
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Figure 5-2c
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



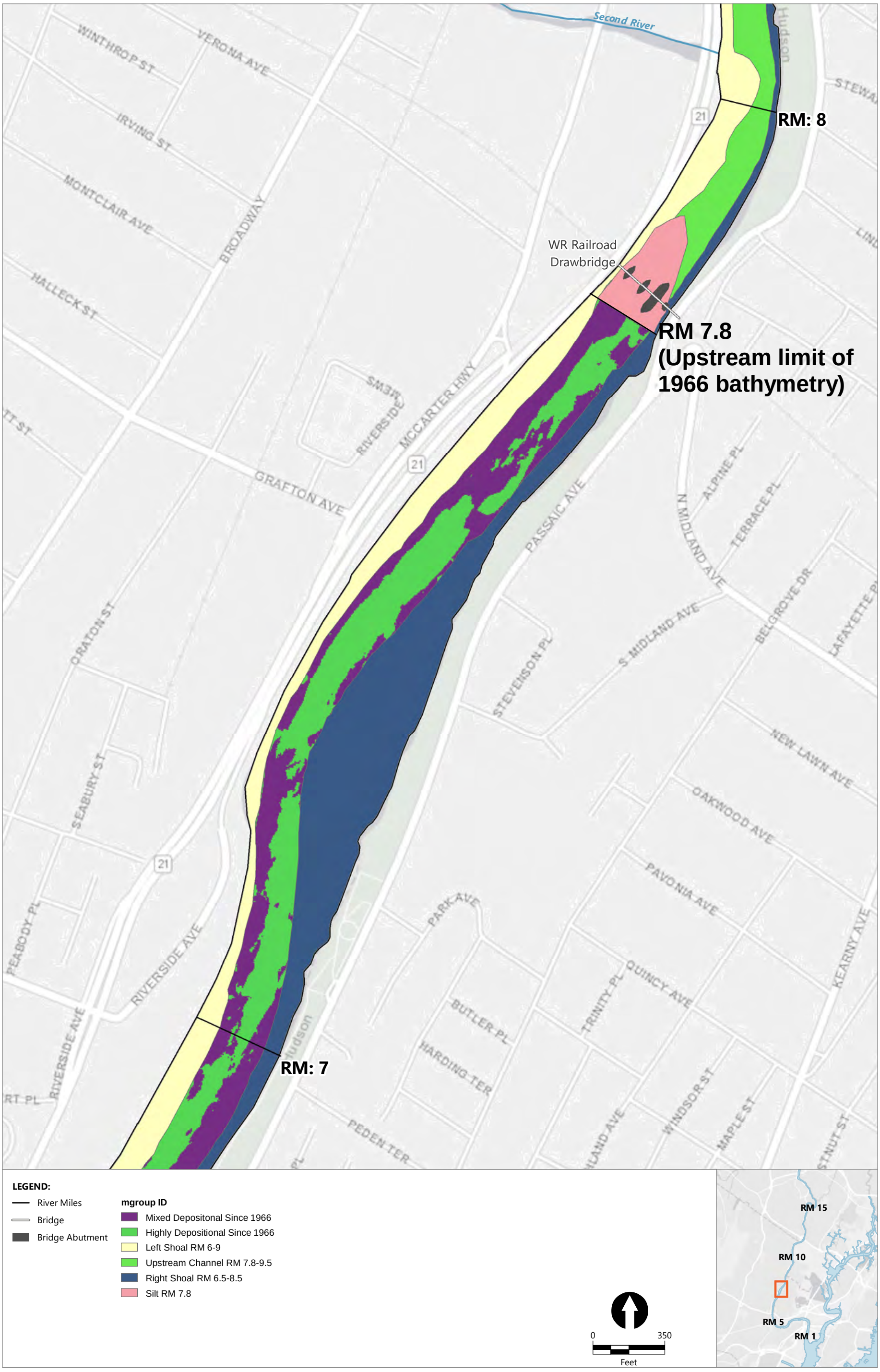
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Figure 5-2d
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



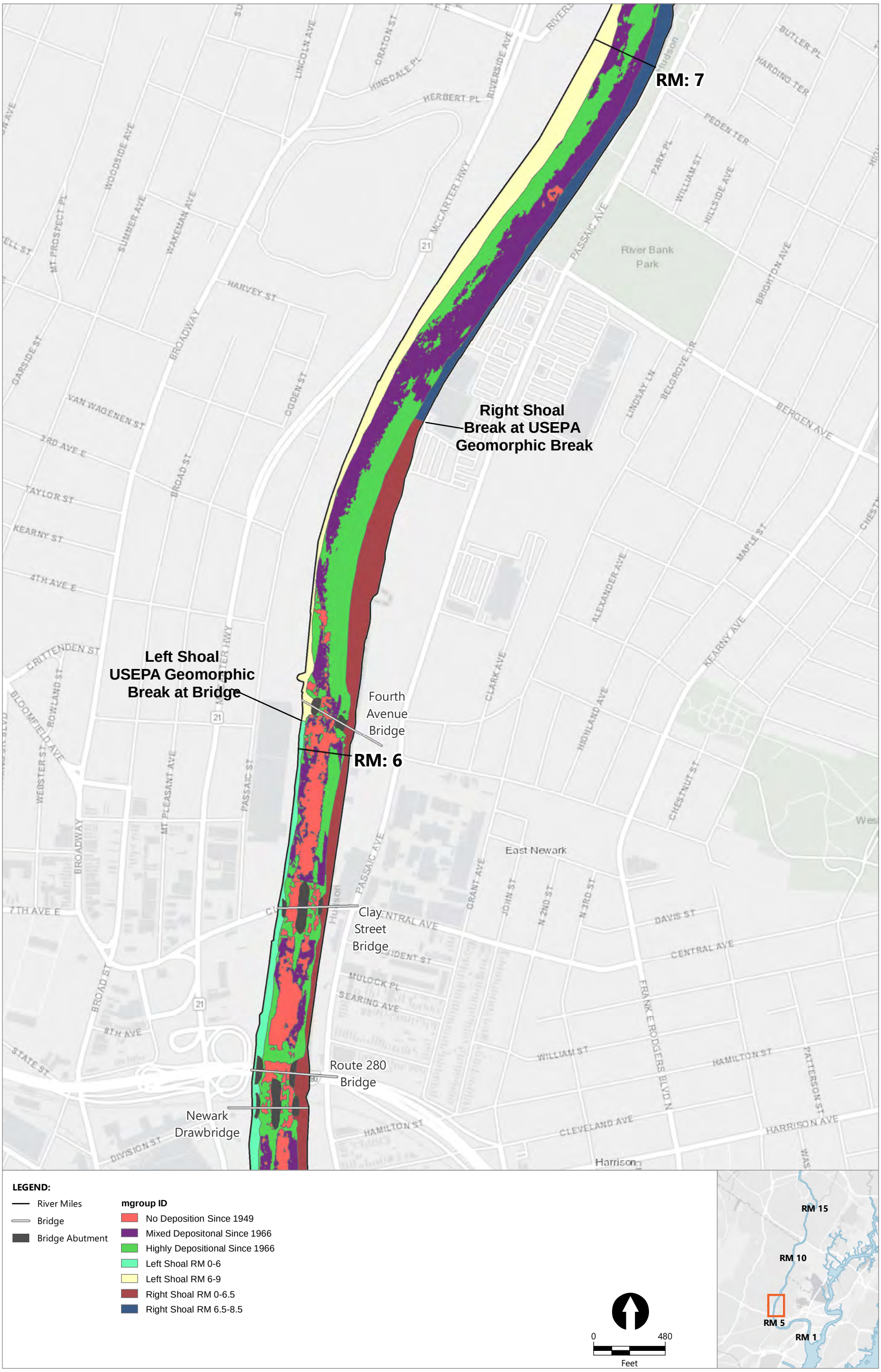
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Figure 5-2e
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



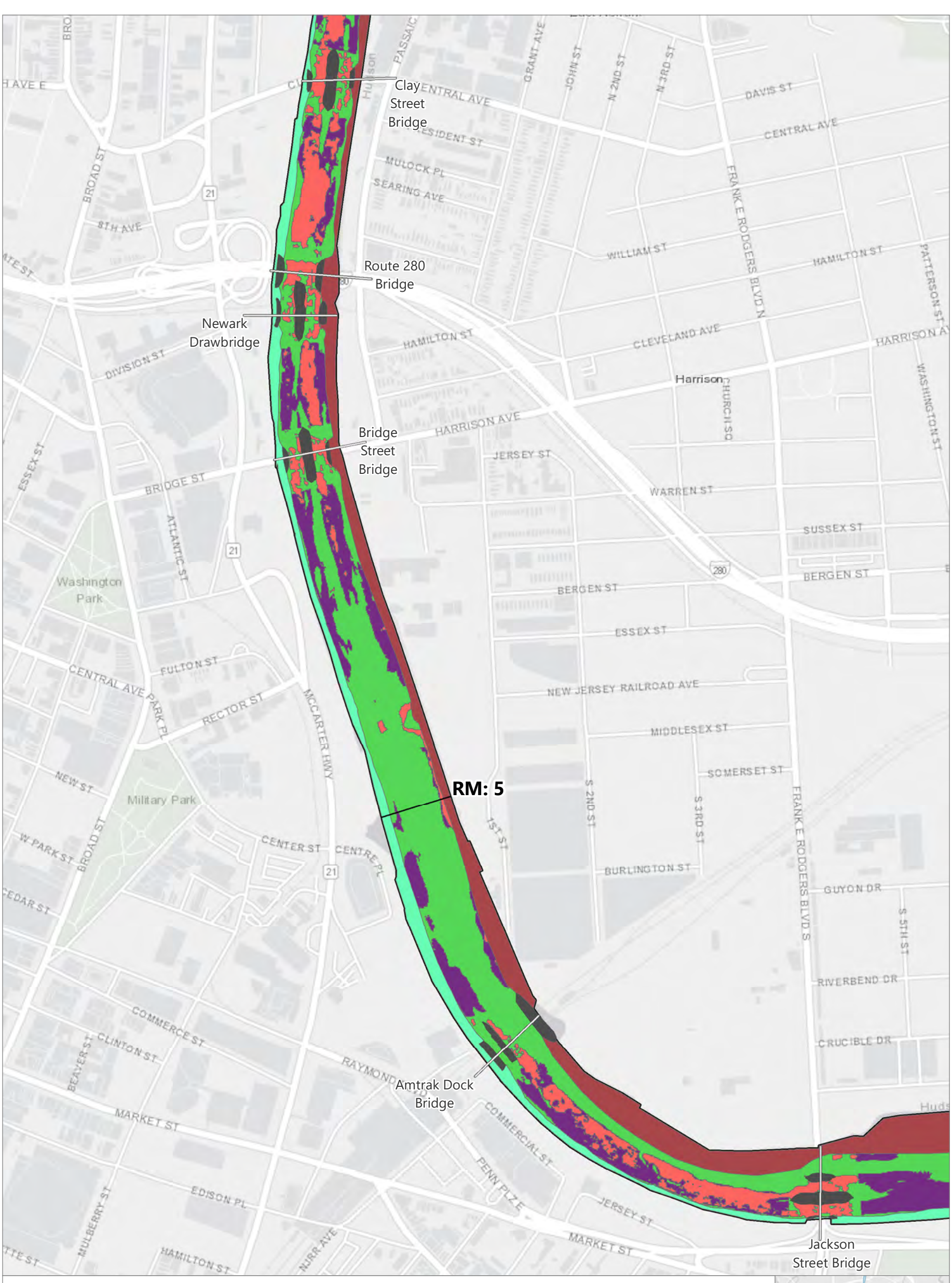
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Figure 5-2f
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



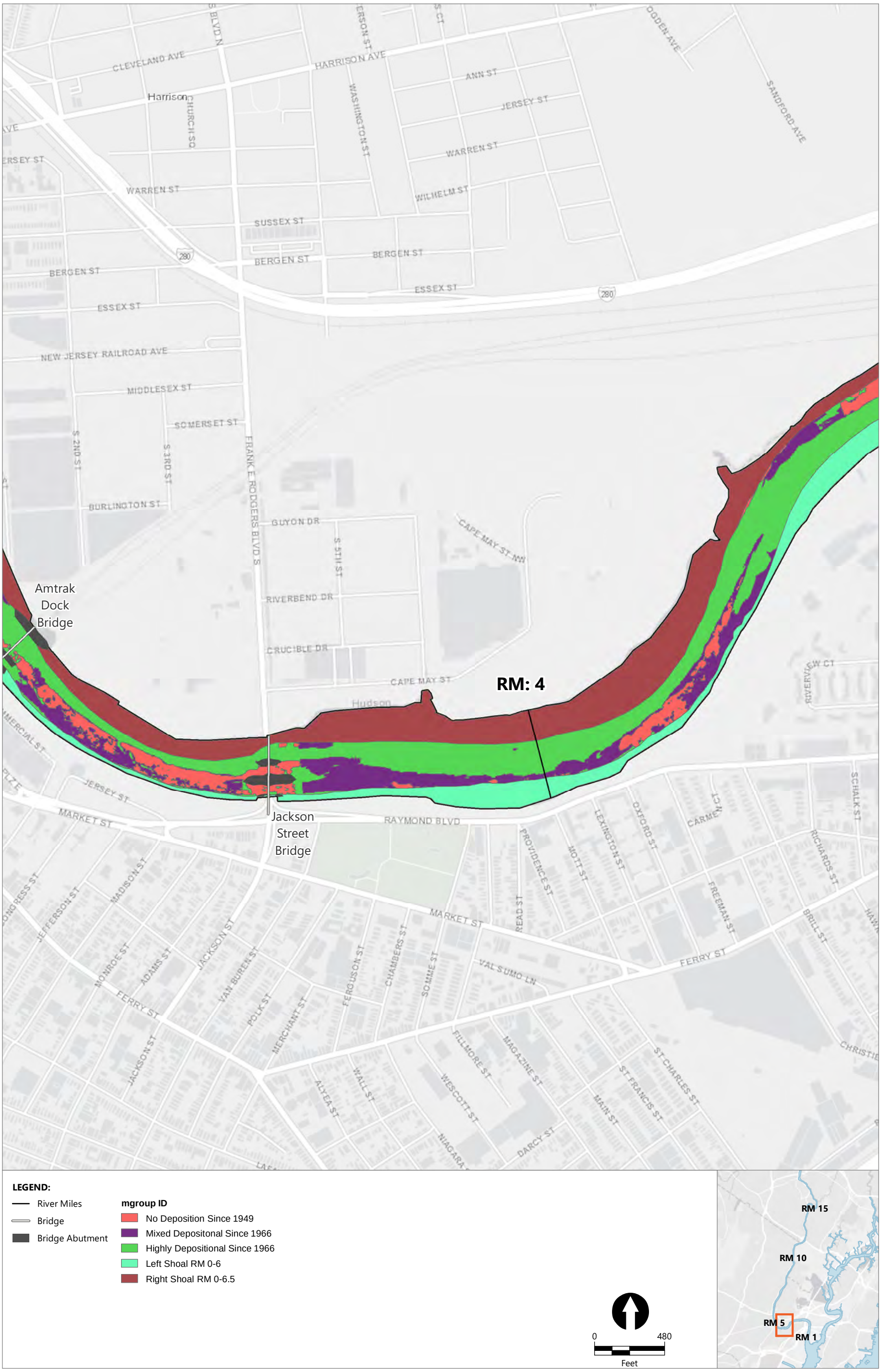
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Figure 5-2g
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



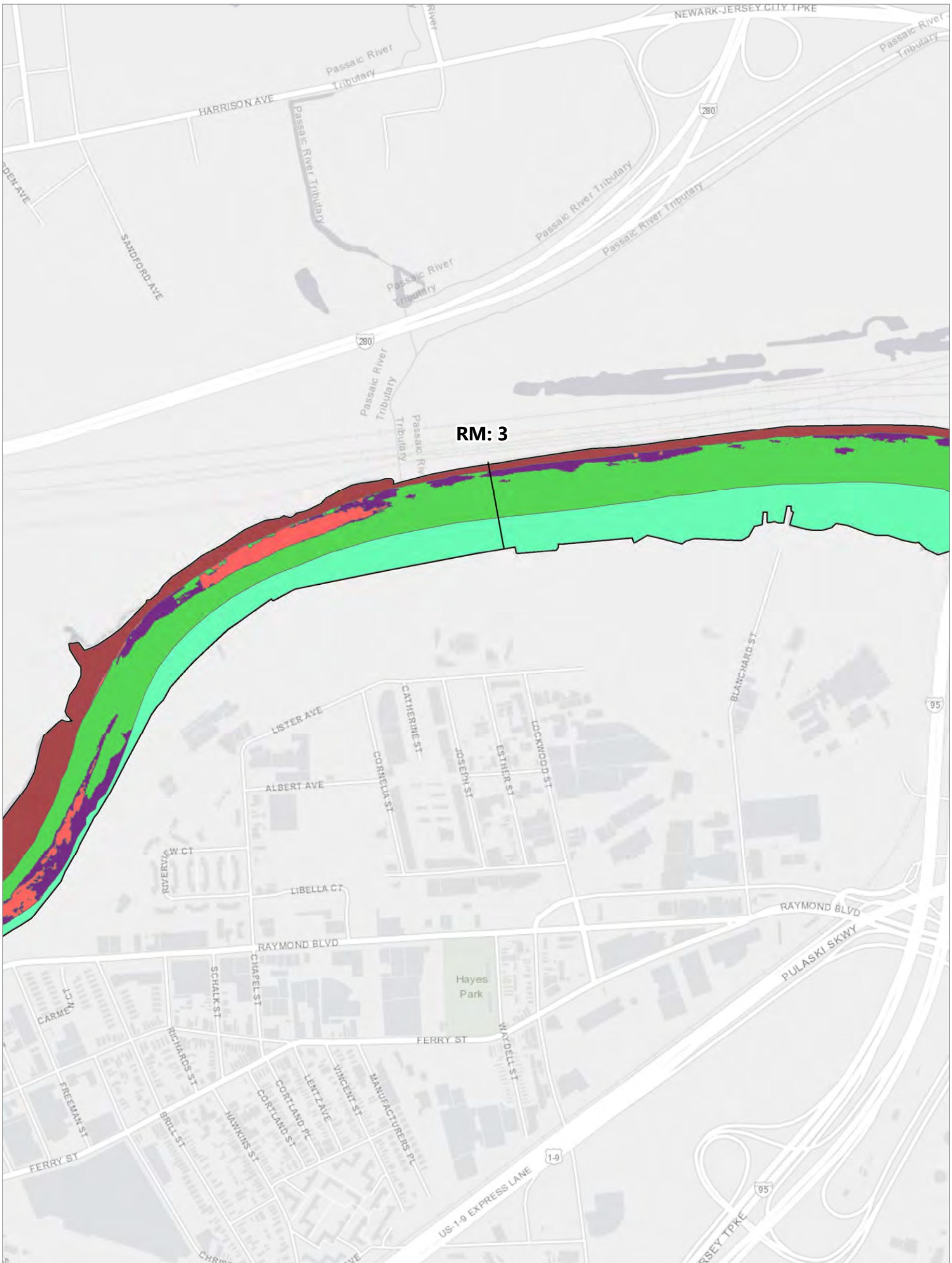
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Figure 5-2h
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



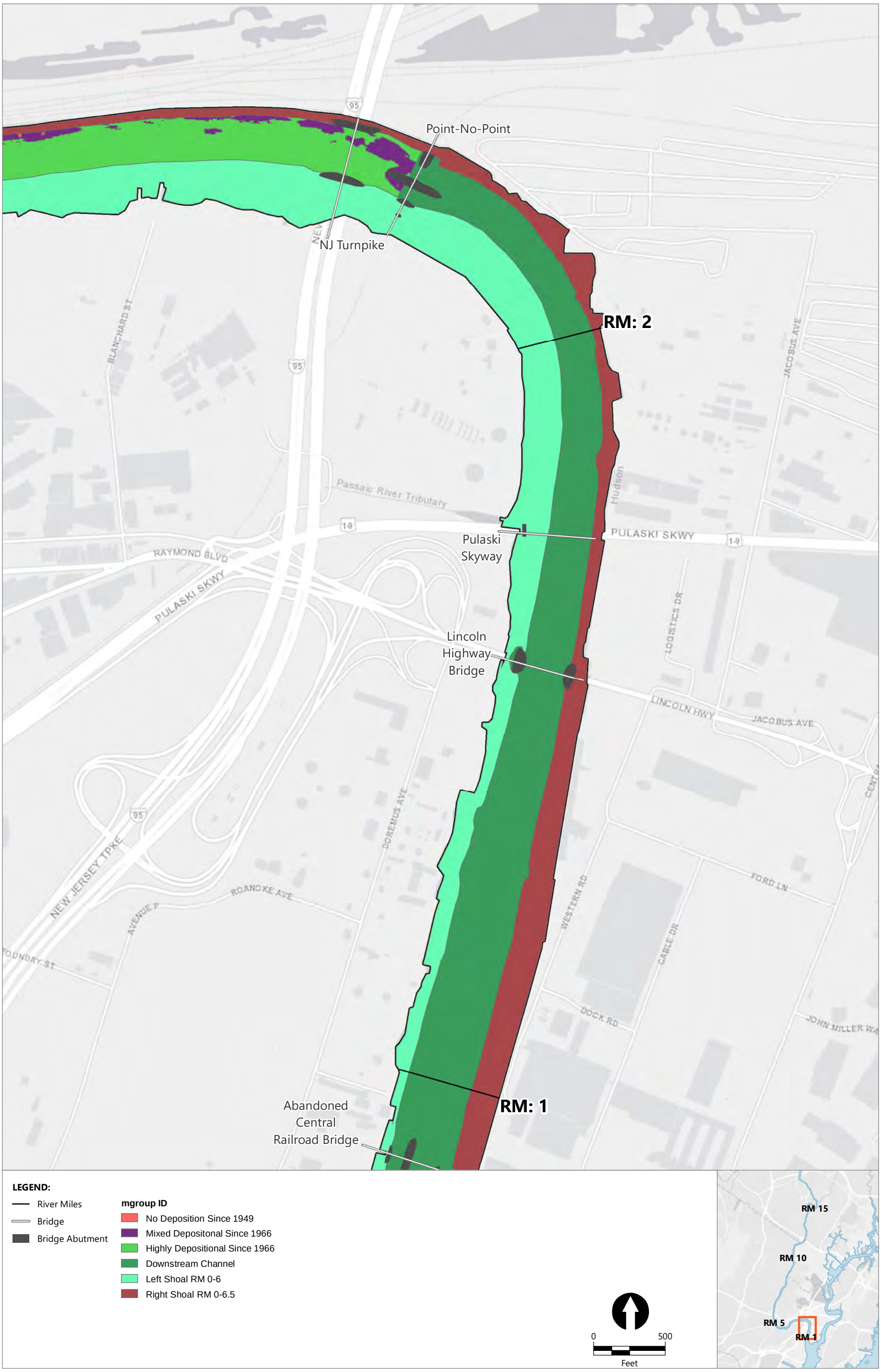
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Figure 5-2i
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



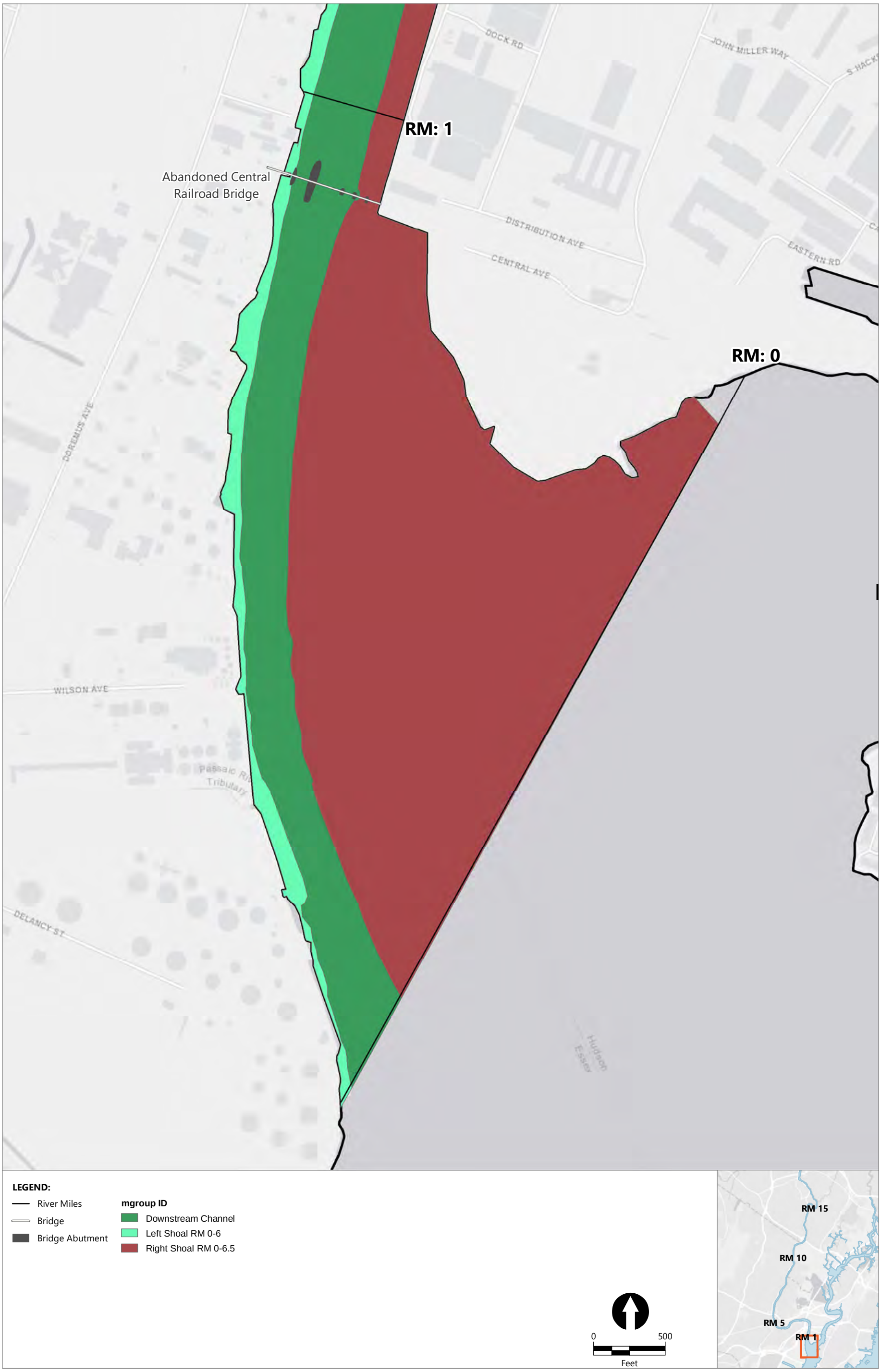
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Figure 5-2j
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



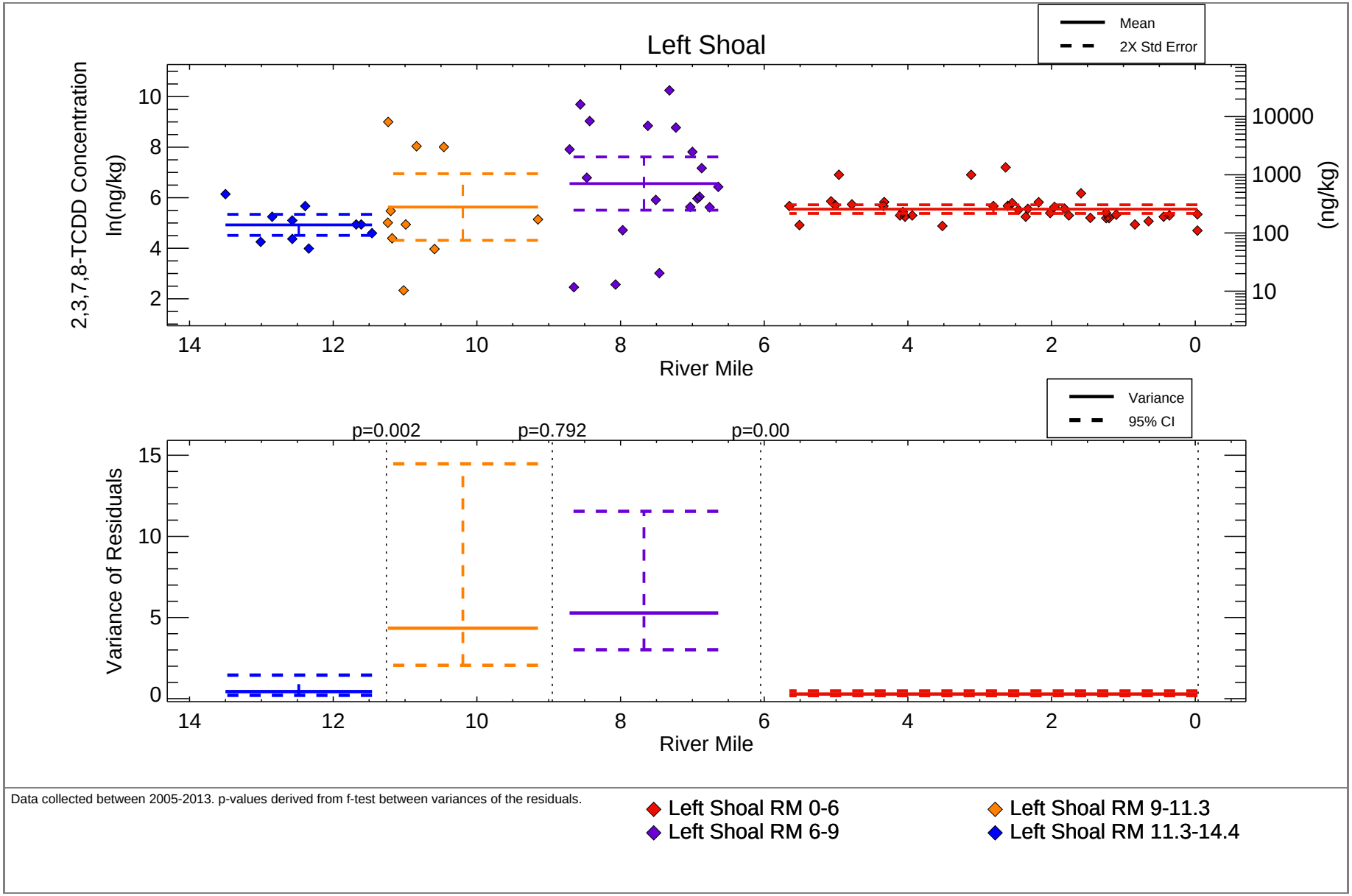
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Figure 5-2k
Data Groups (mgroups) Used in the Conditional Simulation Approach
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Figure 5-2I
Data Groups (mgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

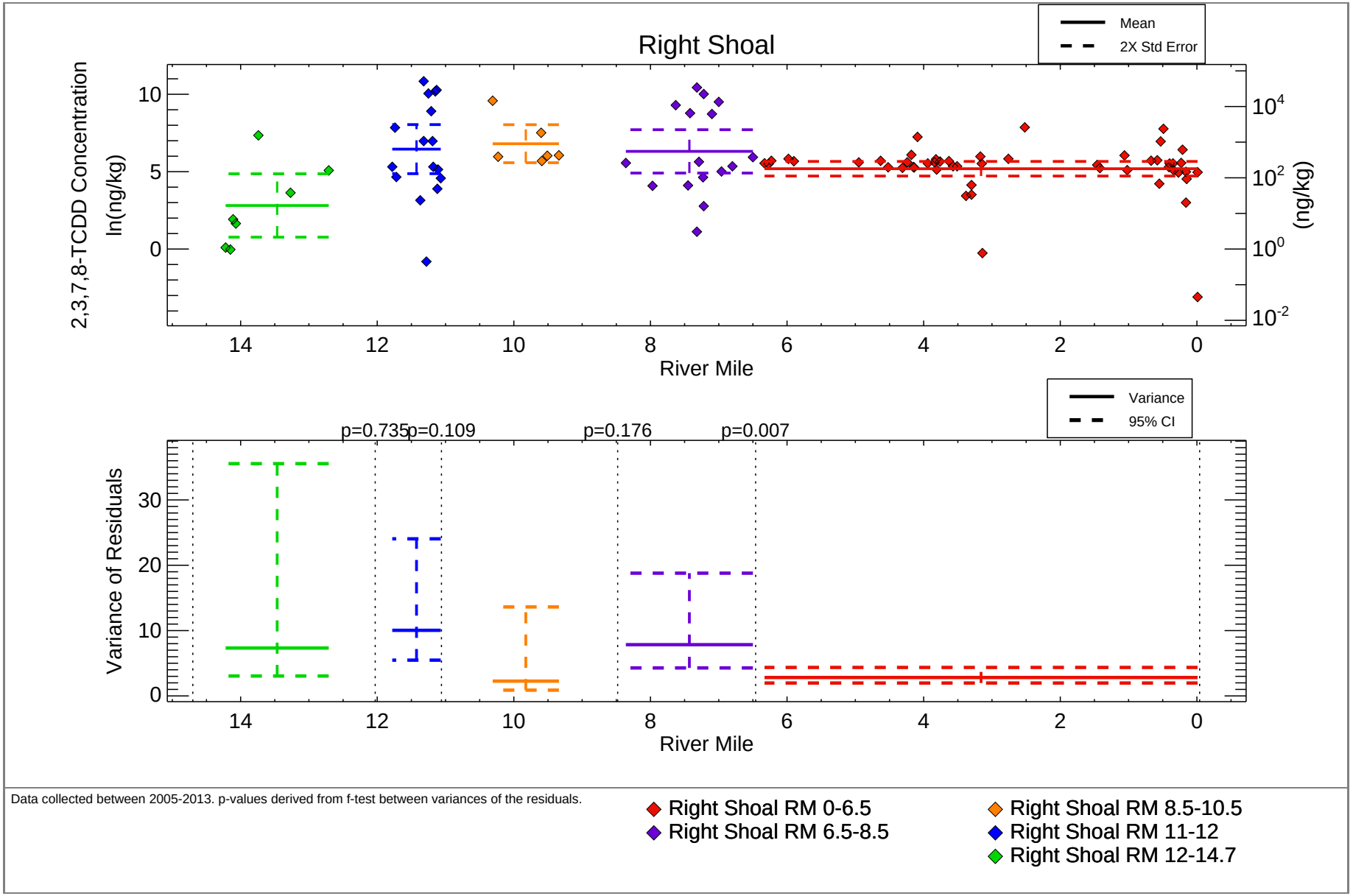


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Figure 5-3a

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

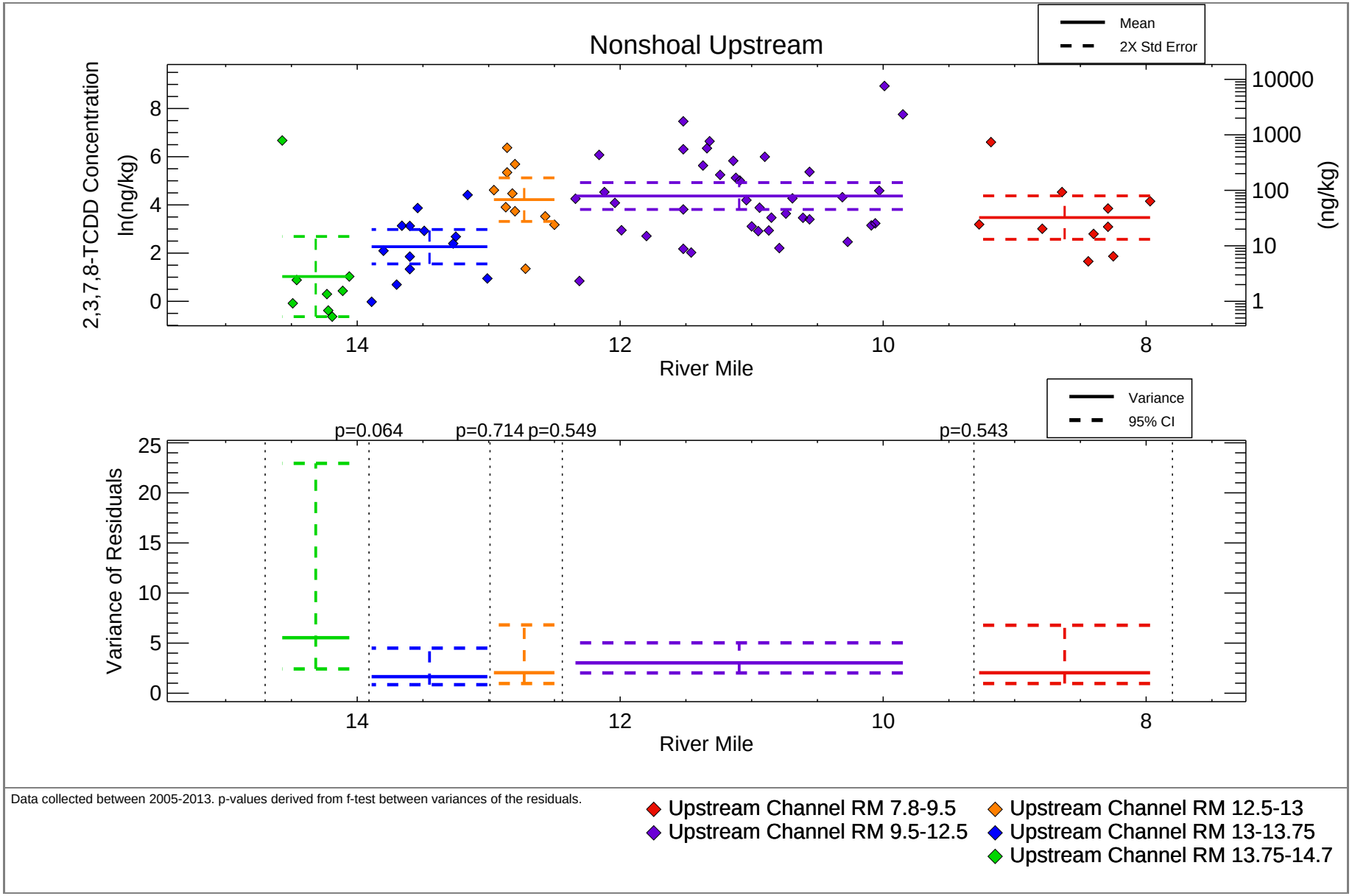
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Figure 5-3b

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

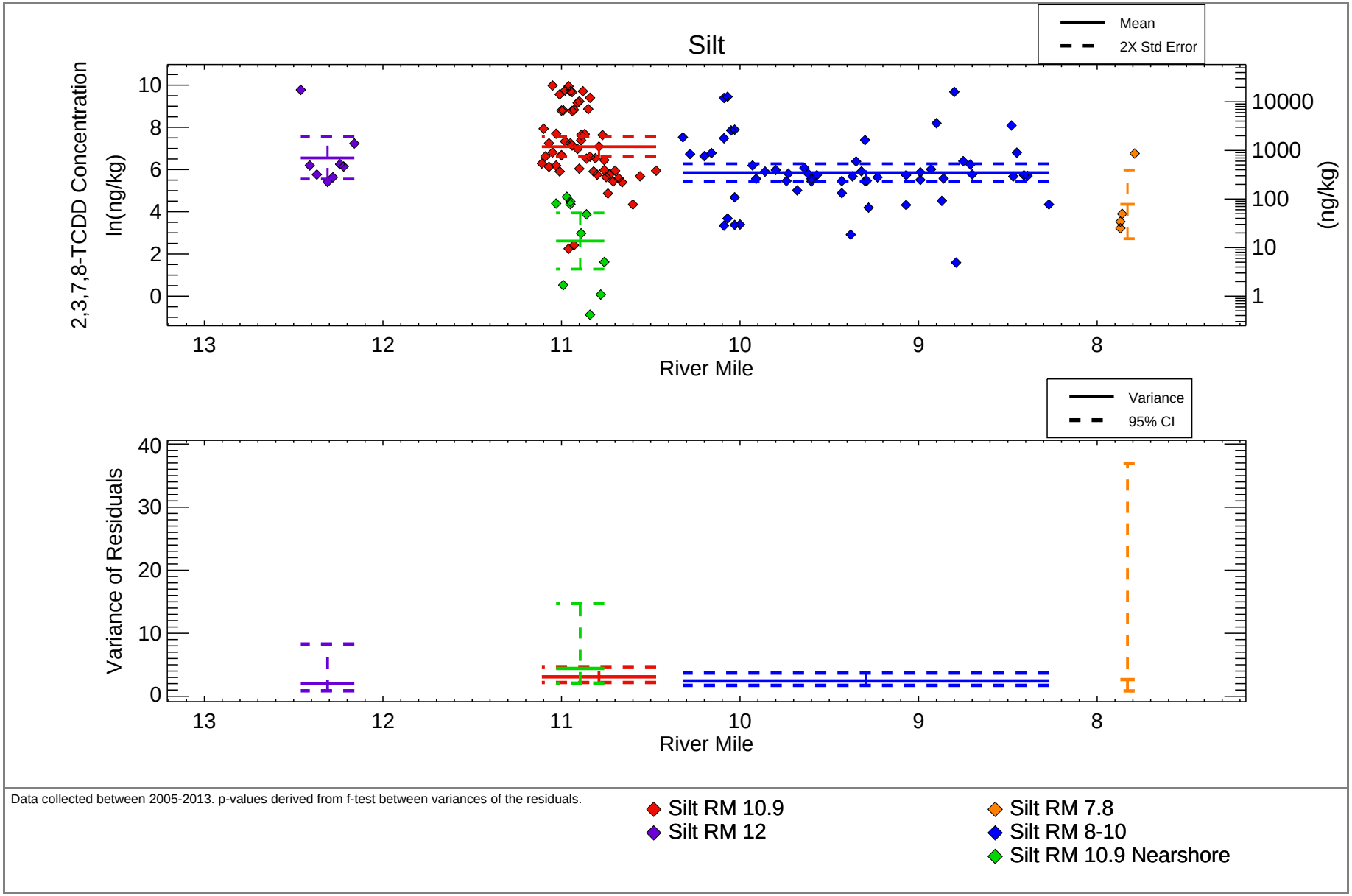


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Figure 5-3c

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

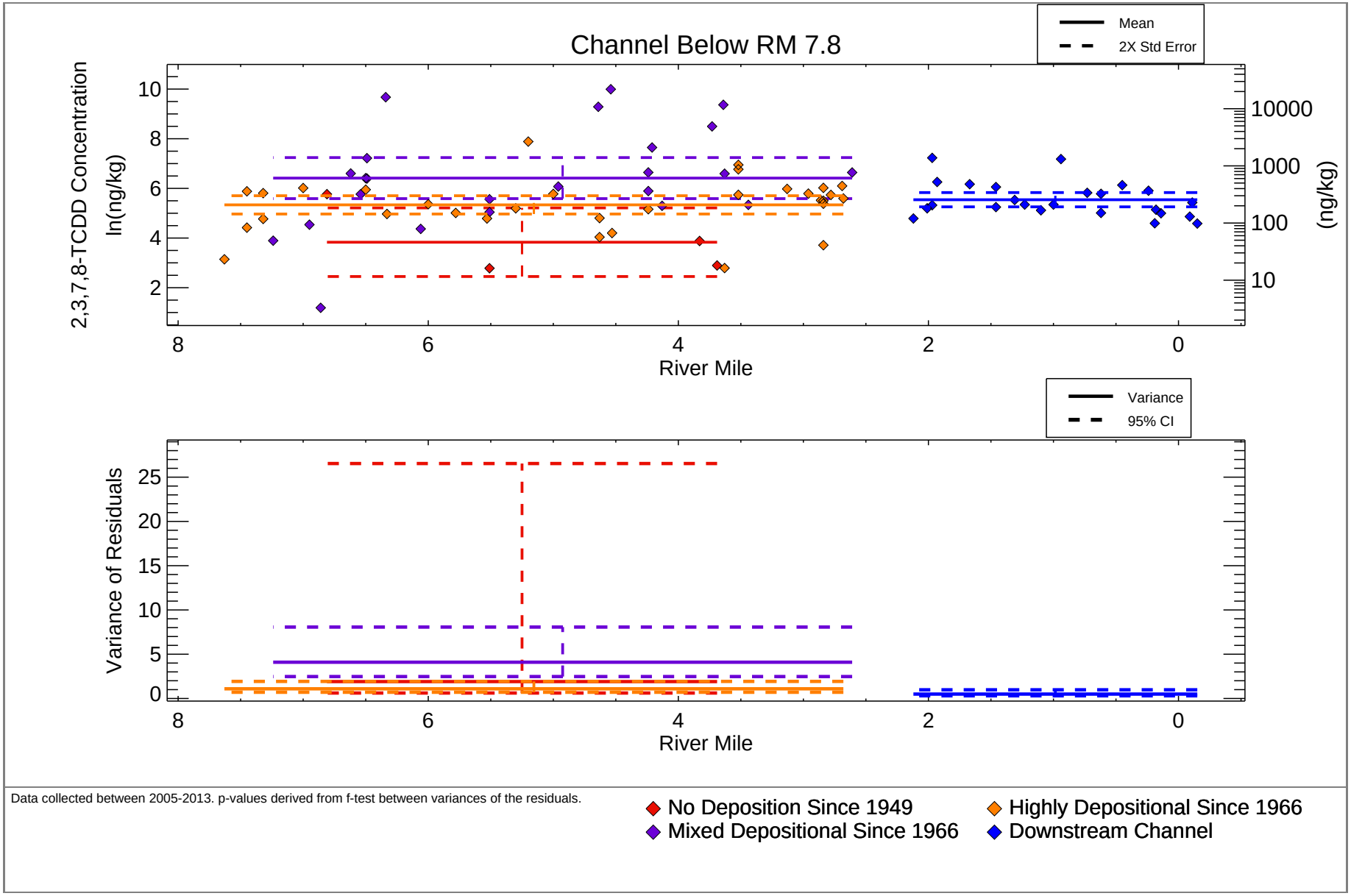


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Figure 5-3d

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

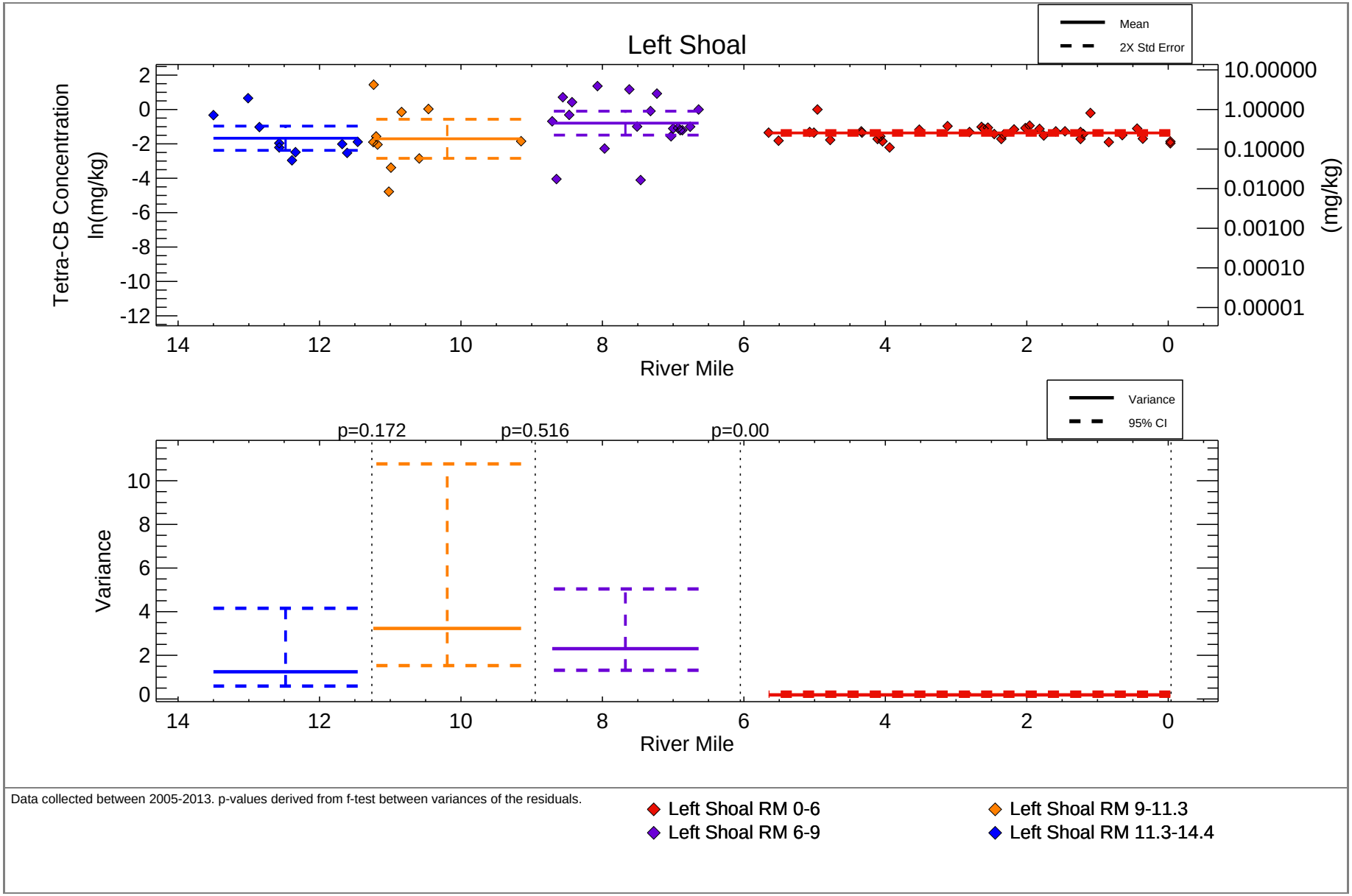


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Figure 5-3e

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

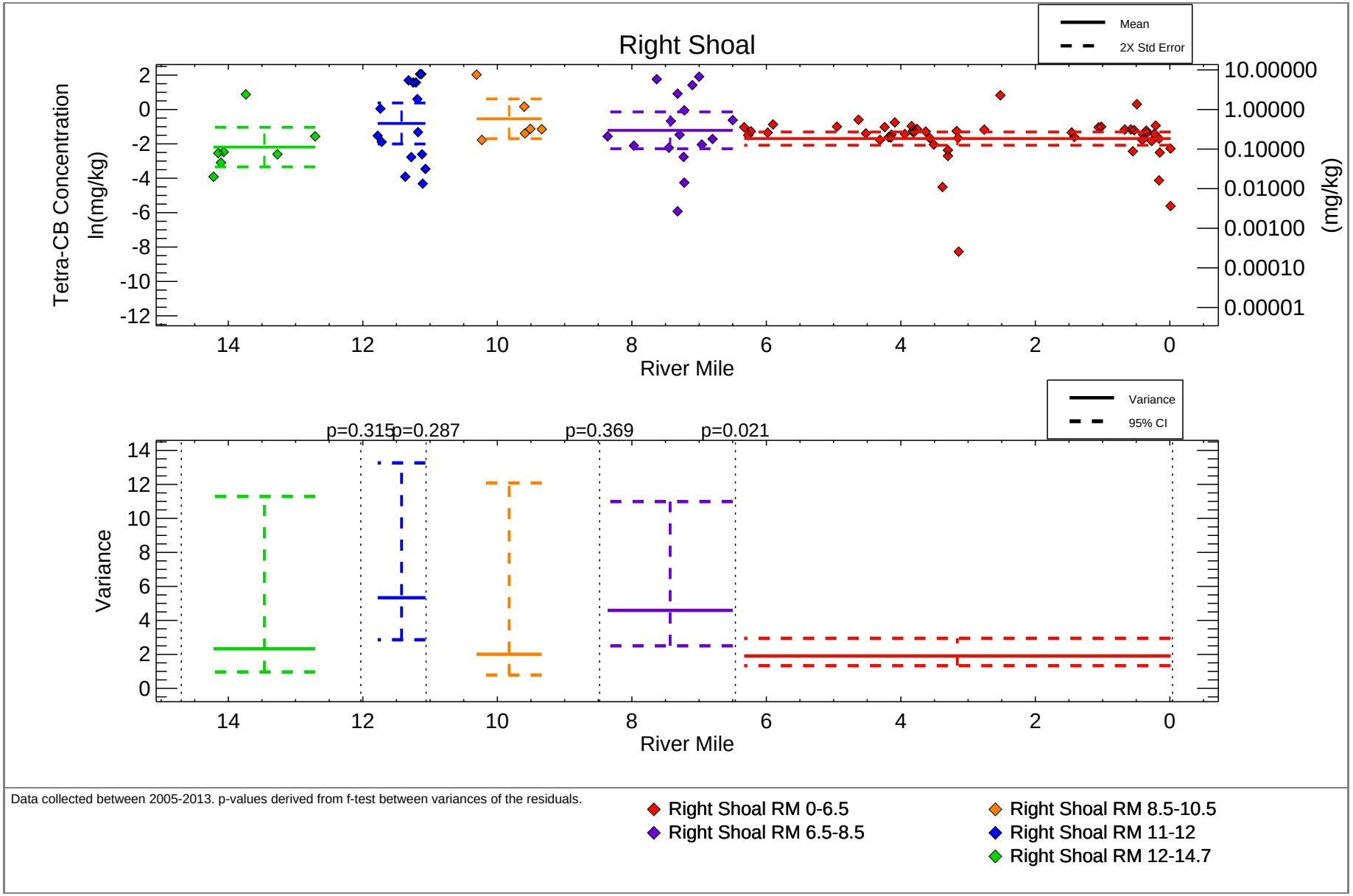


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Figure 5-4a

Surface Sediment Tetra-CB Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

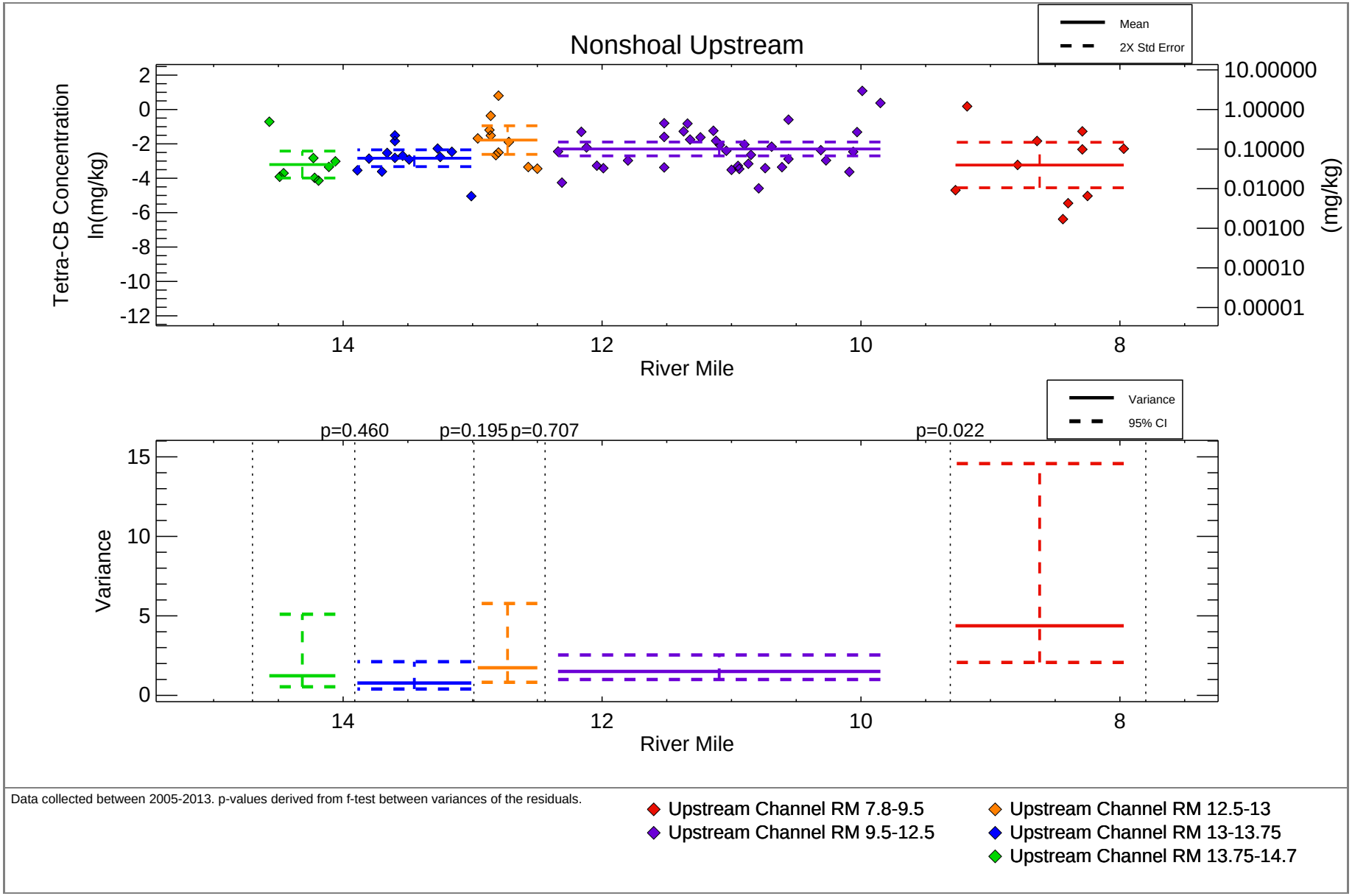


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Figure 5-4b

Surface Sediment Tetra-CB Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

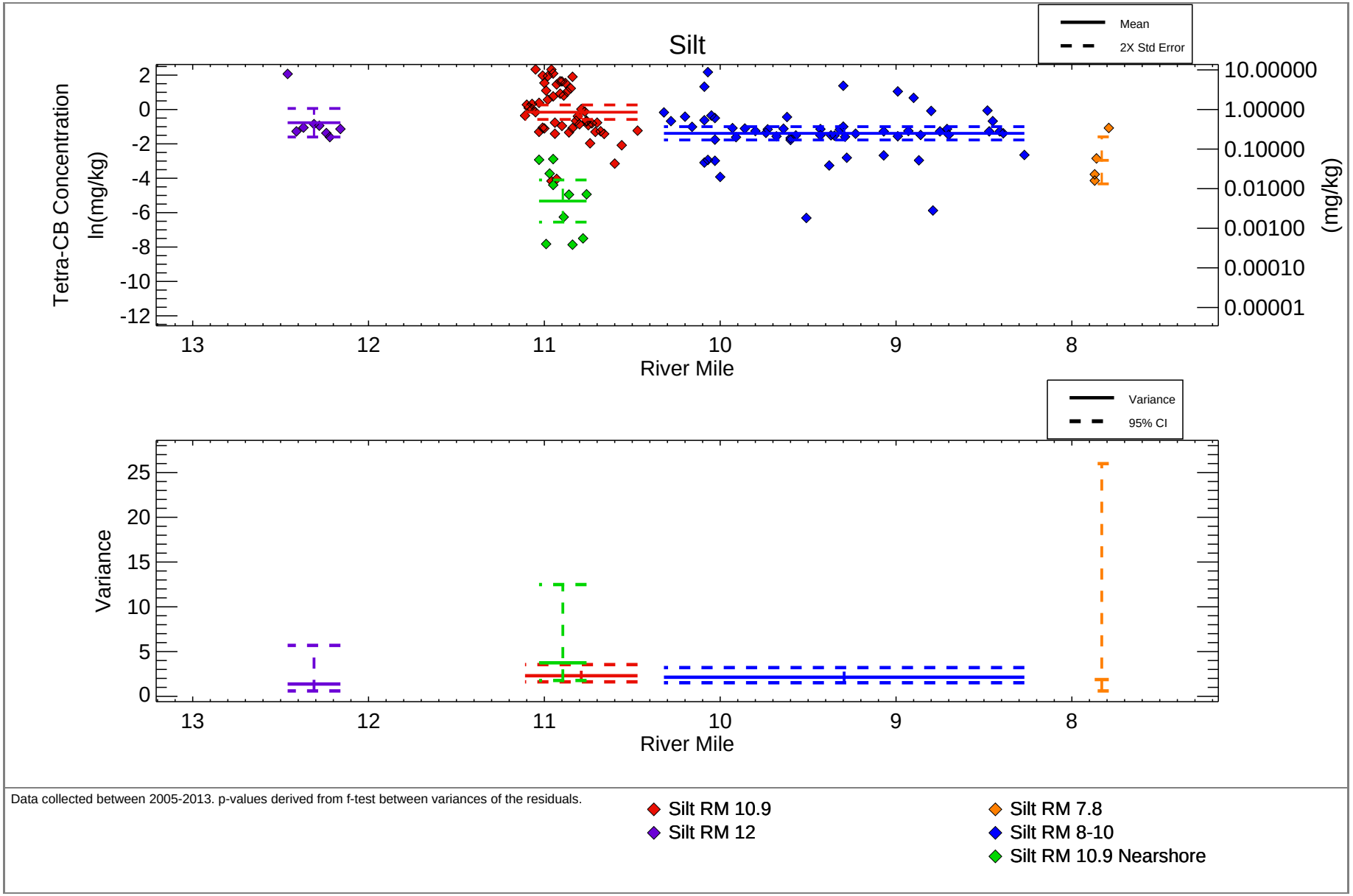


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Figure 5-4c

Surface Sediment Tetra-CB Concentration vs River Mile by Data Group (mgroup)

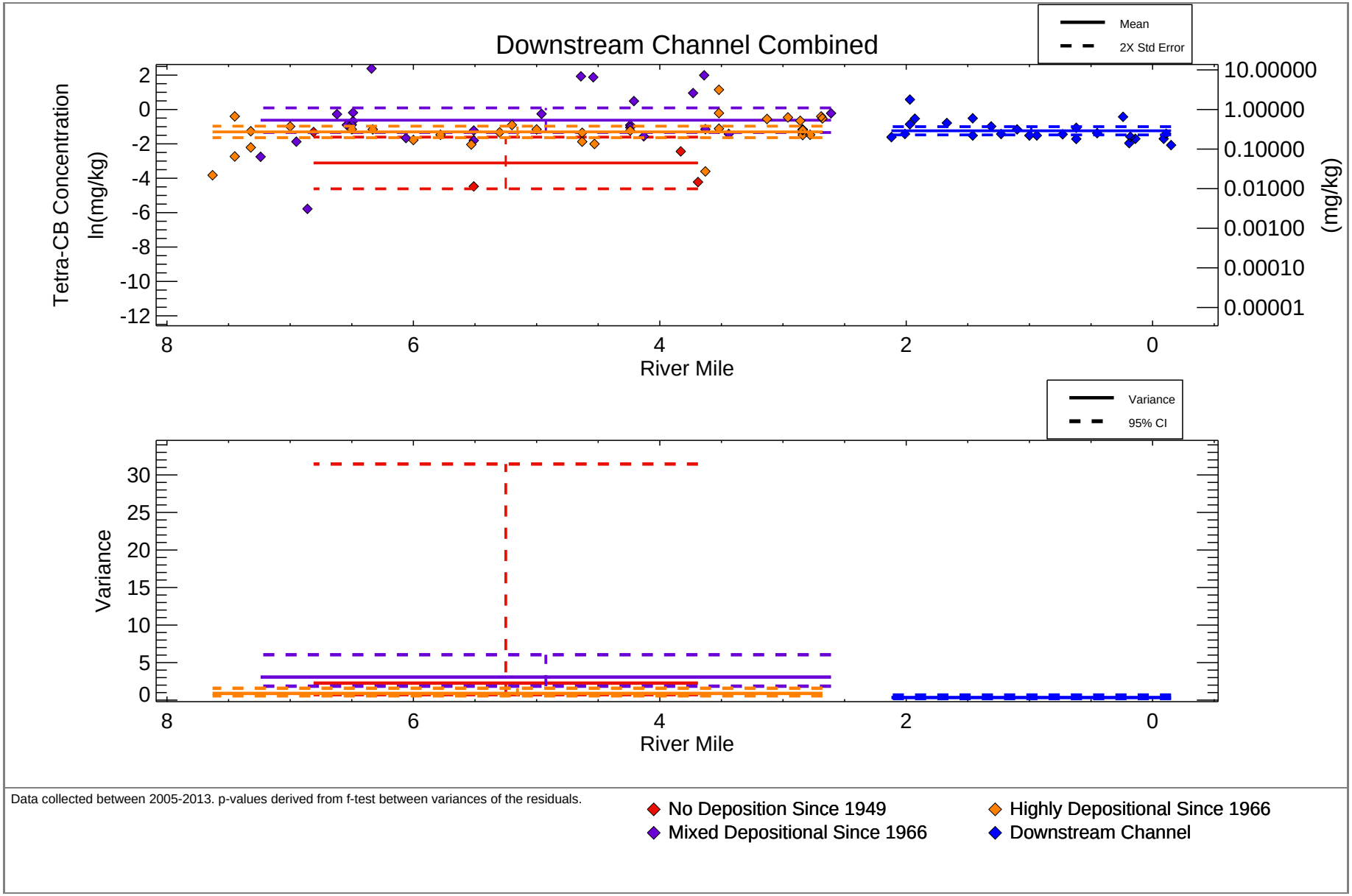
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Figure 5-4d

Surface Sediment Tetra-CB Concentration vs River Mile by Data Group (mgroup)



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Figure 5-4e

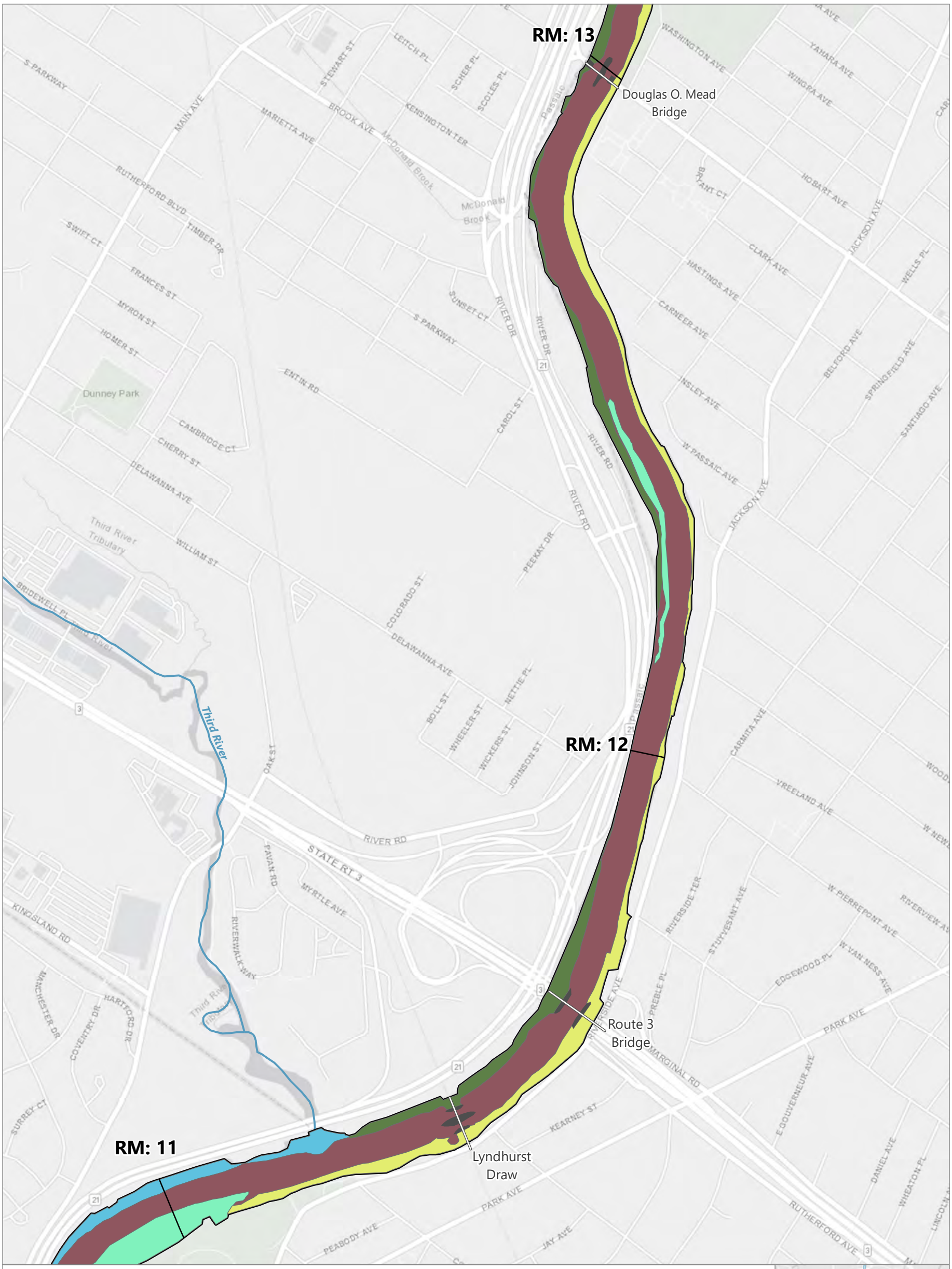
Surface Sediment Tetra-CB Concentration vs River Mile by Data Group (mgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



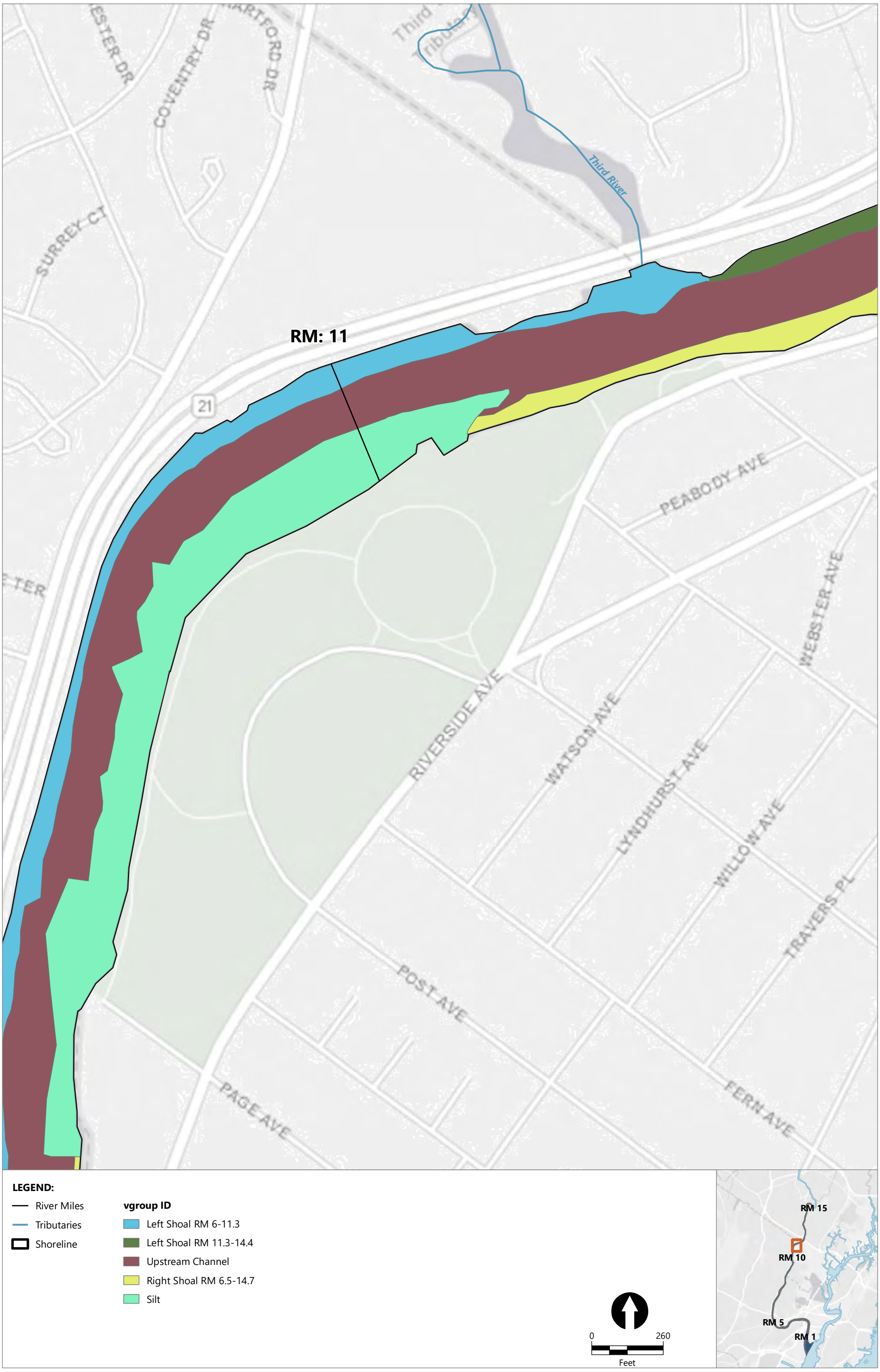
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Figure 5-5a
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



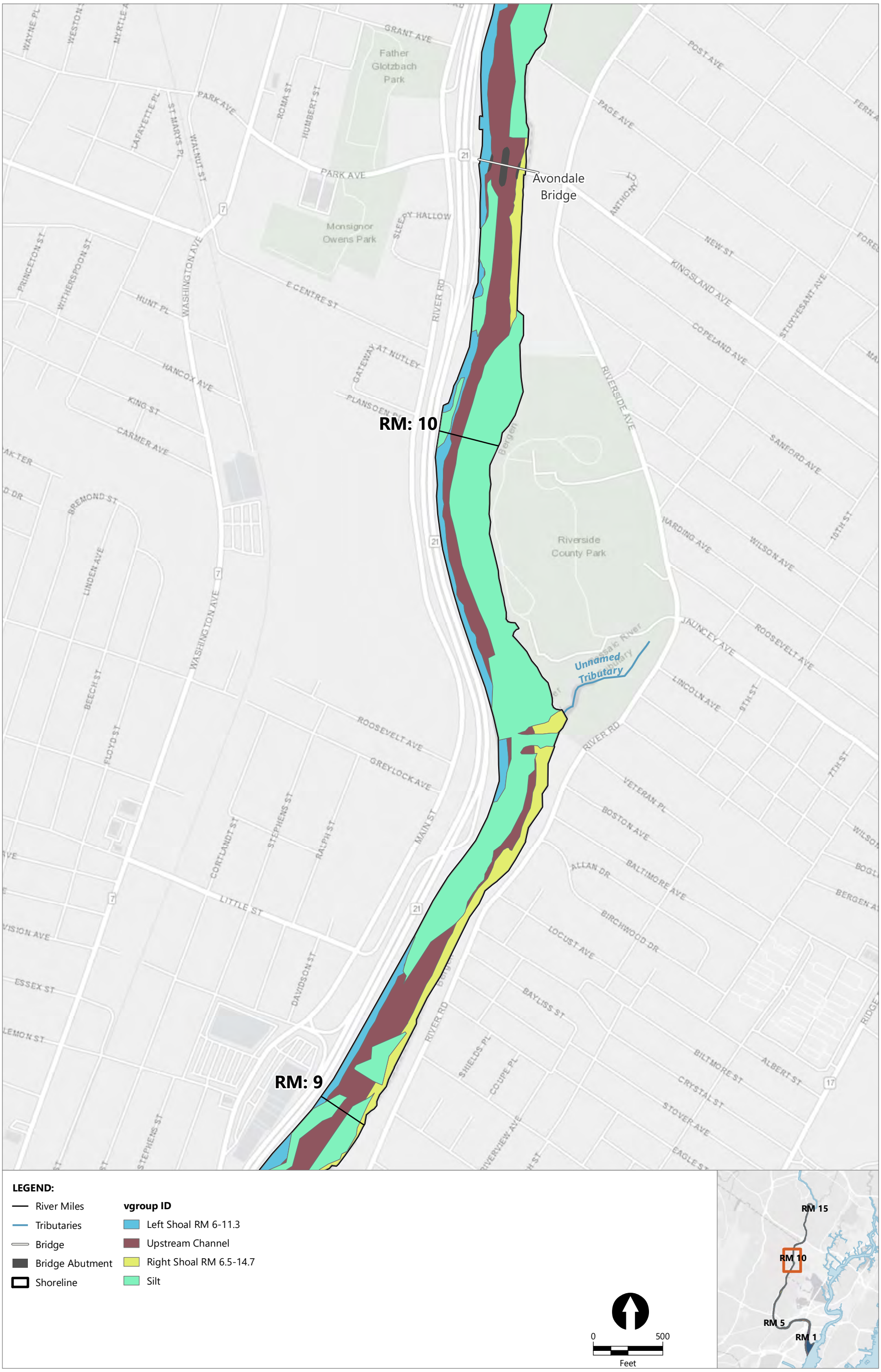
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Figure 5-5b
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



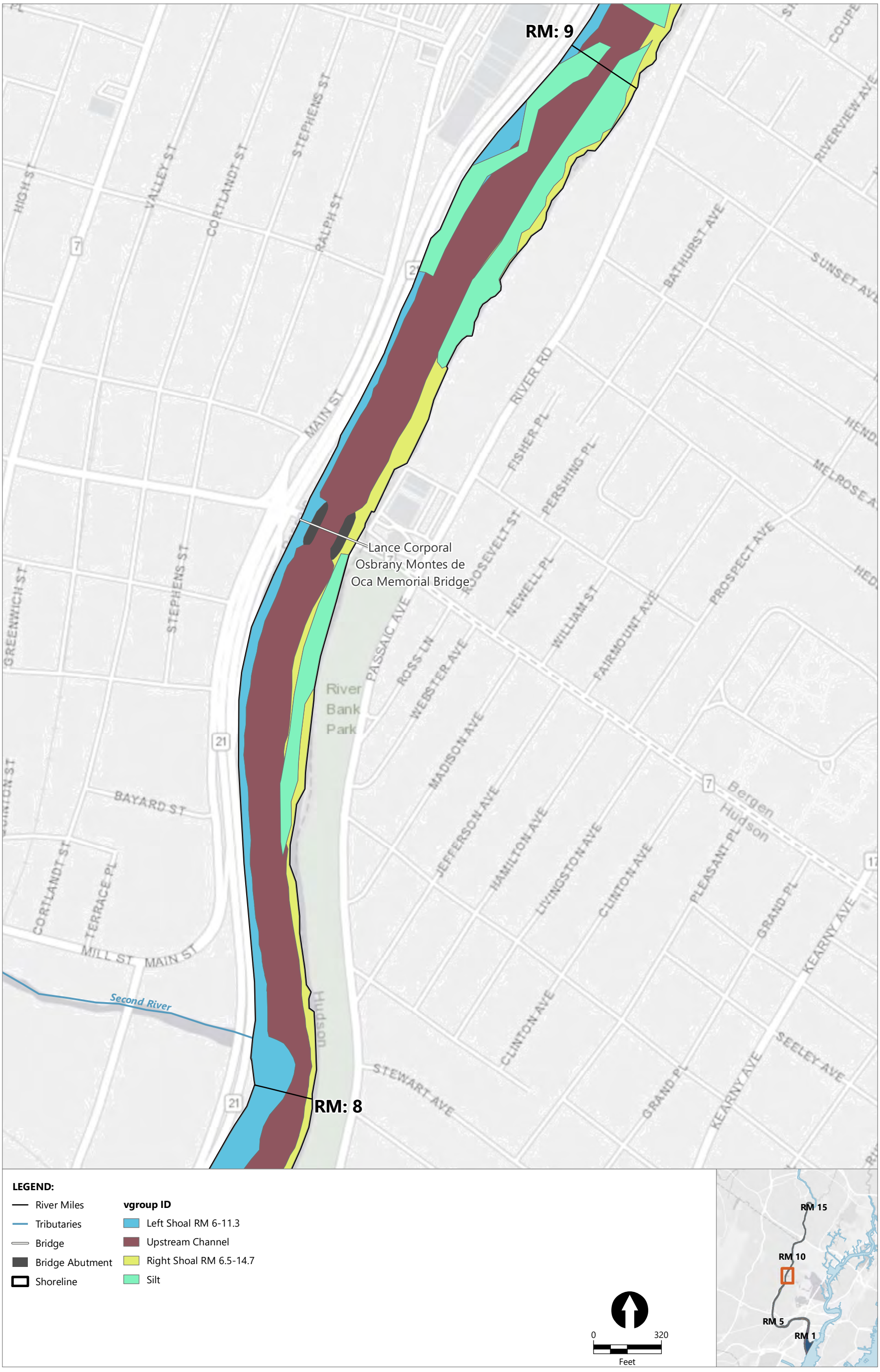
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Figure 5-5c
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
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Figure 5-5d
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-5e
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



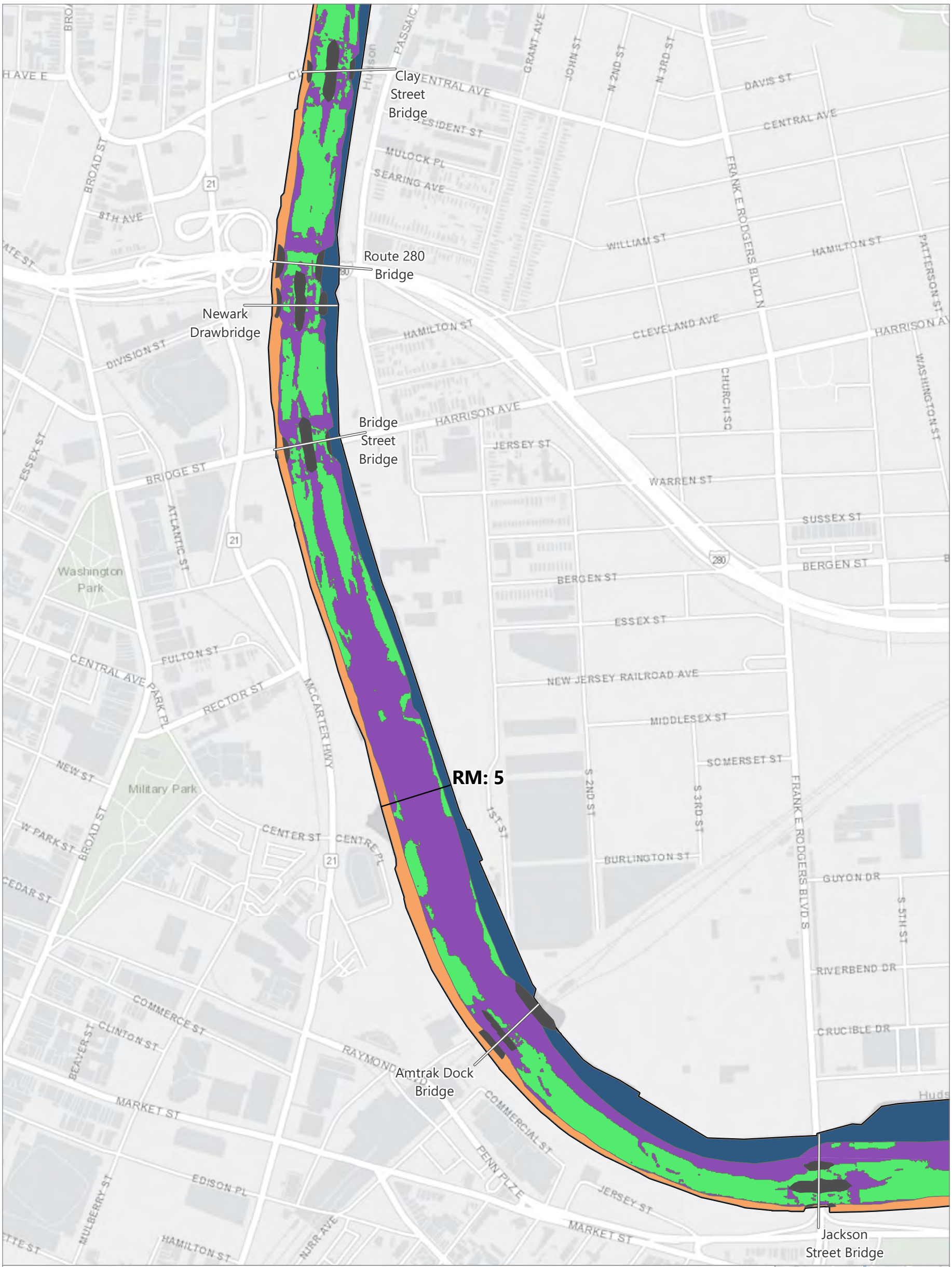
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Figure 5-5f
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
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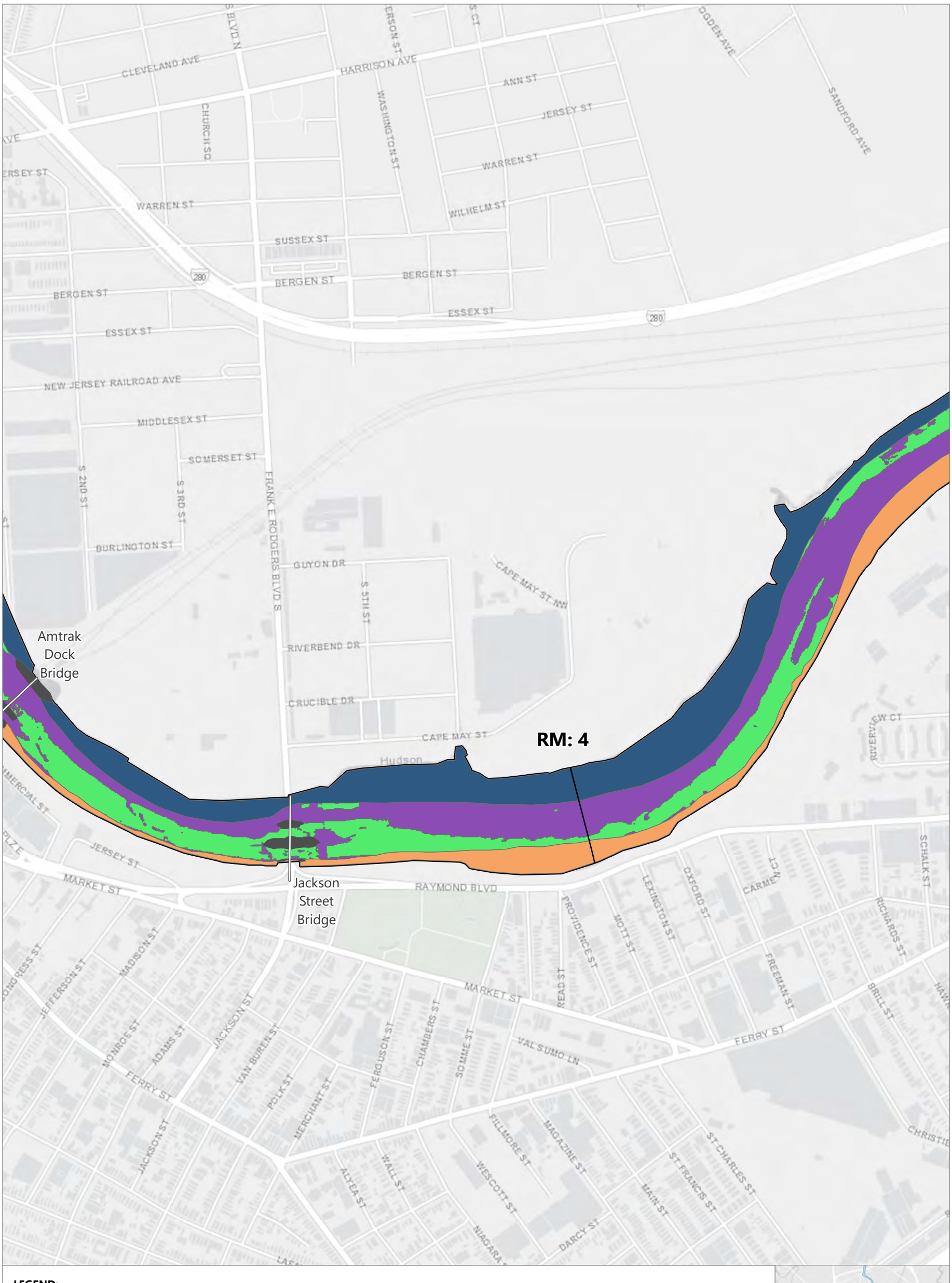
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Figure 5-5g
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
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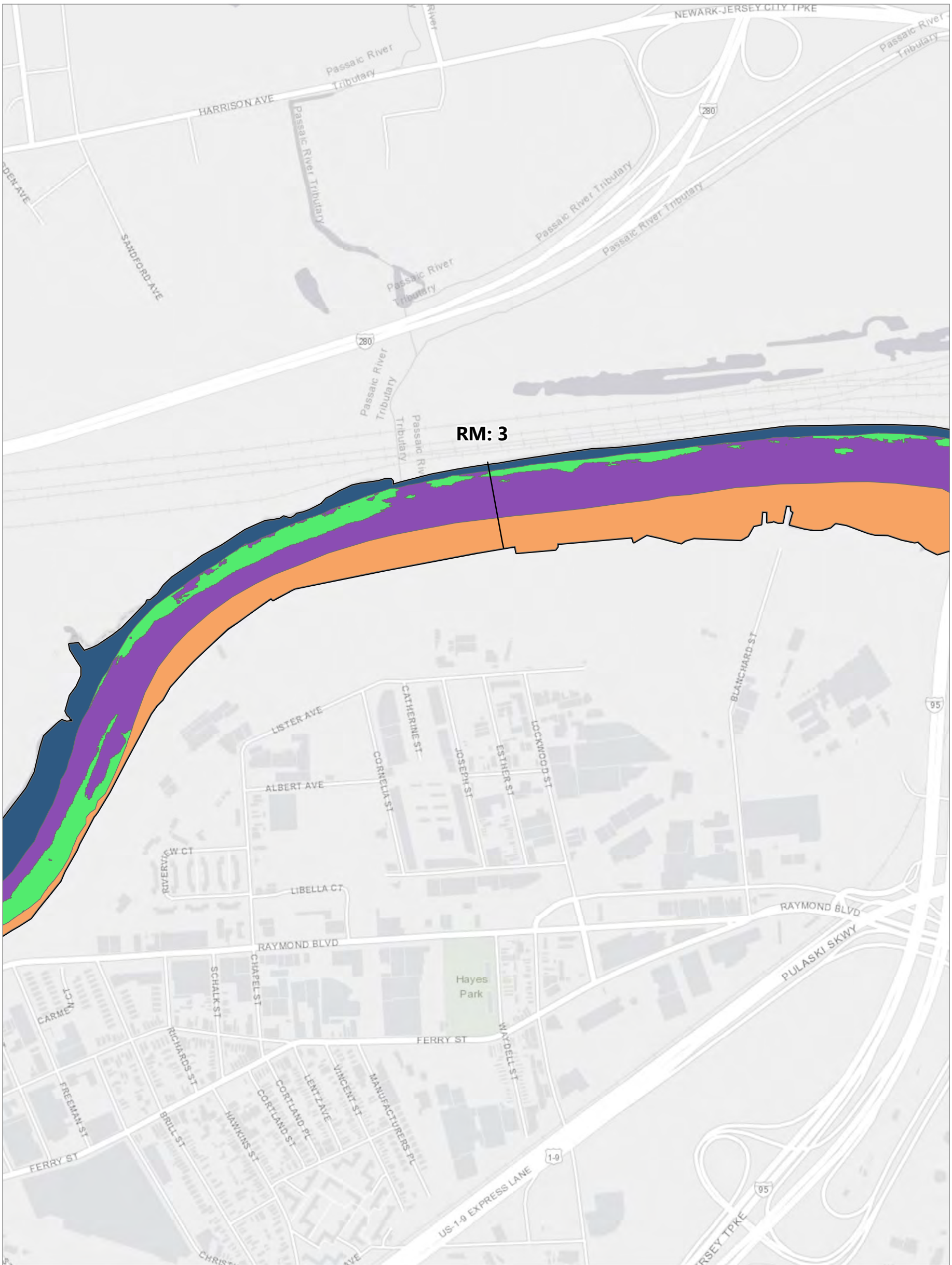
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Figure 5-5h
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
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Figure 5-5i
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



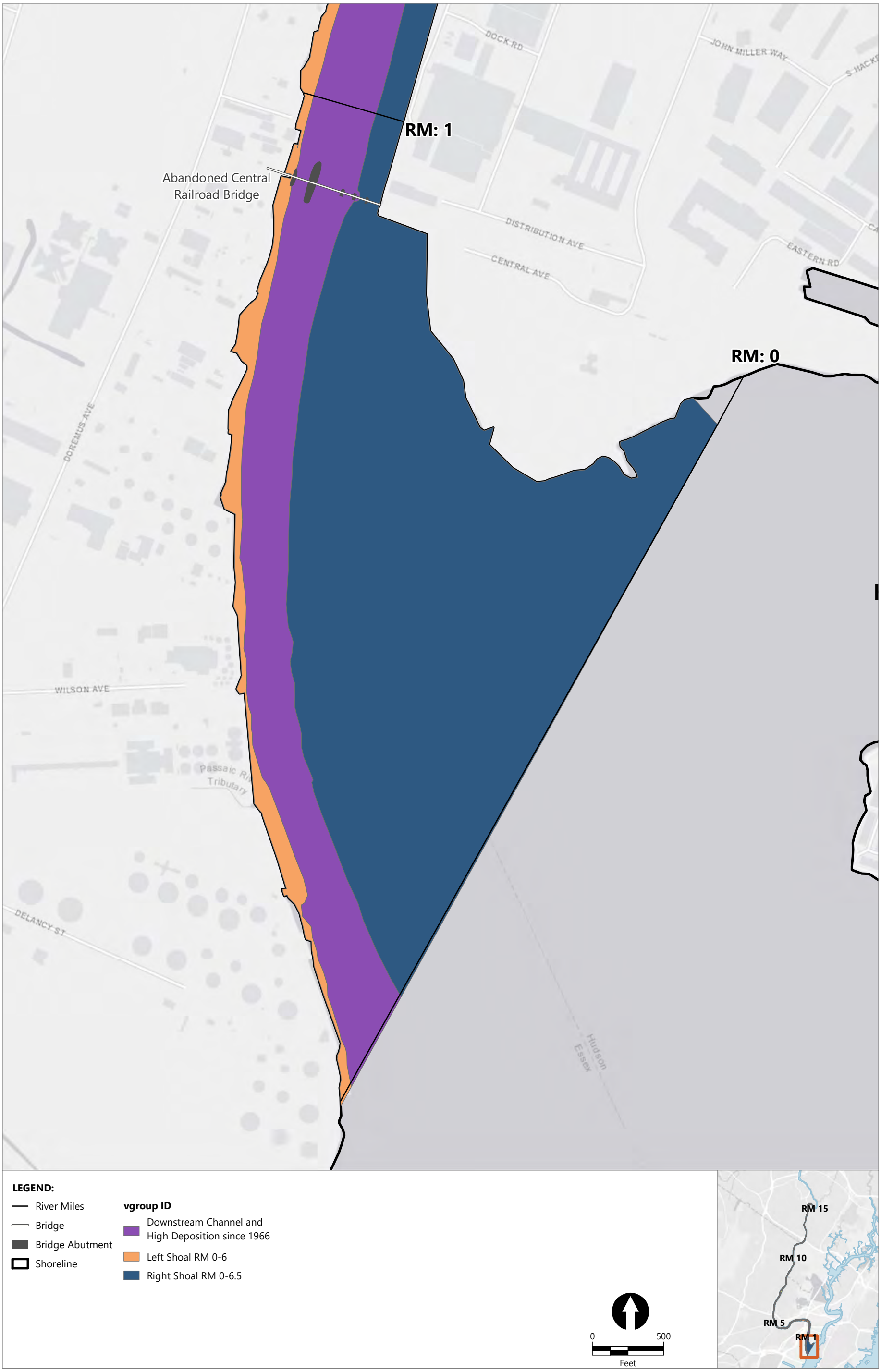
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Figure 5-5j
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



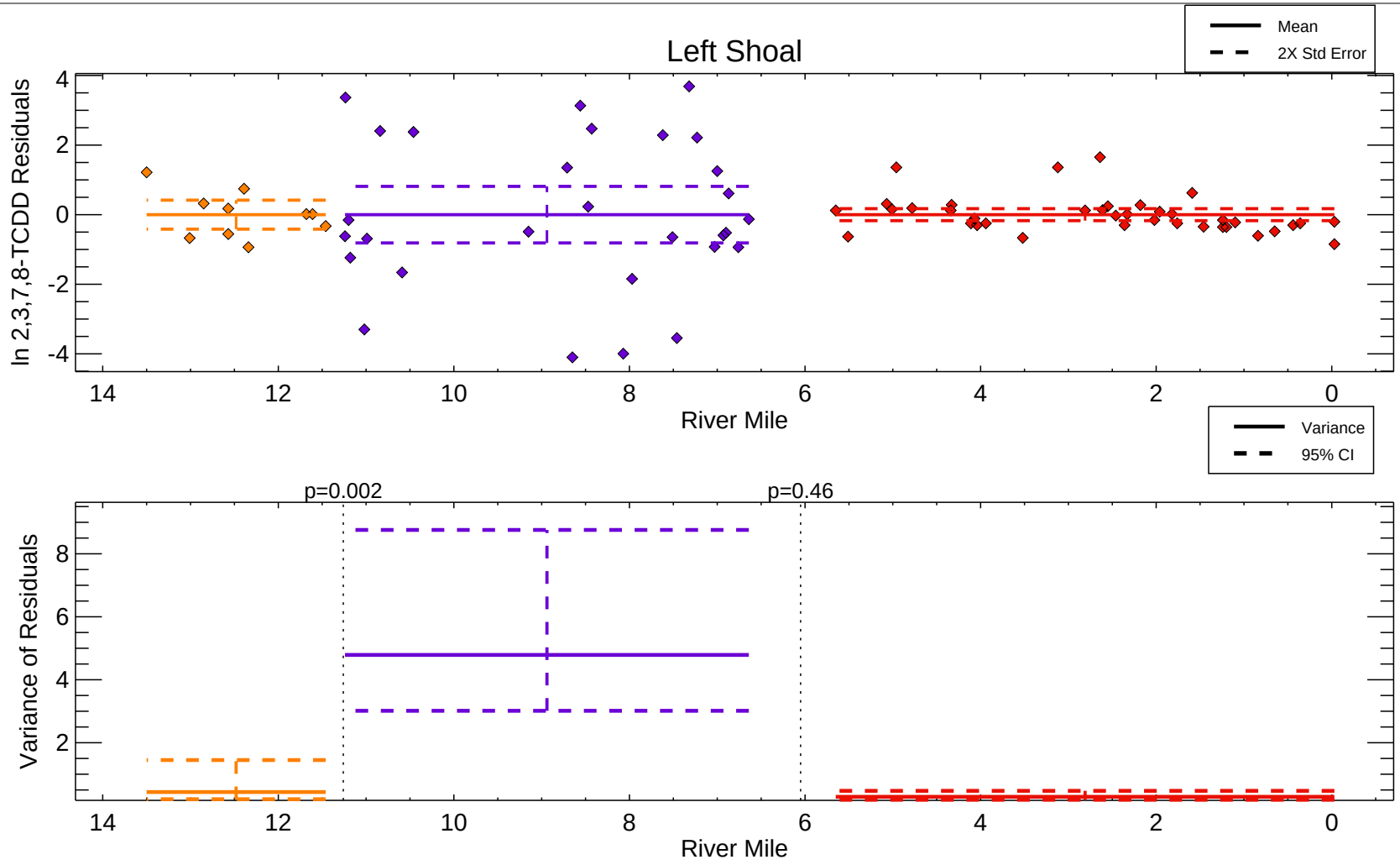
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Figure 5-5k
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
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Figure 5-5l
Kriging Groups (vgroups) Used in the Conditional Simulation Approach
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

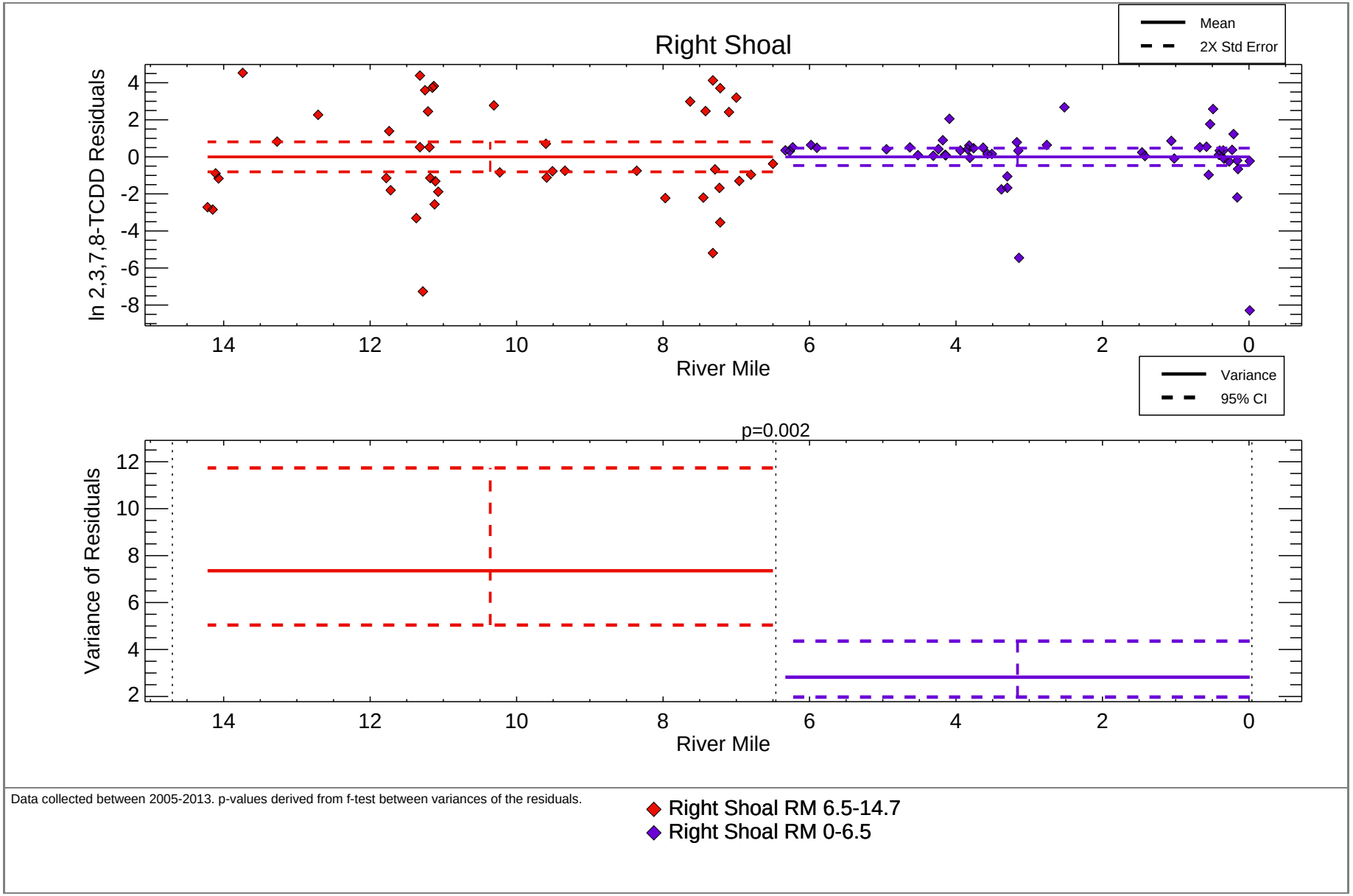
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Figure 5-6a

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Kriging Group (vgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

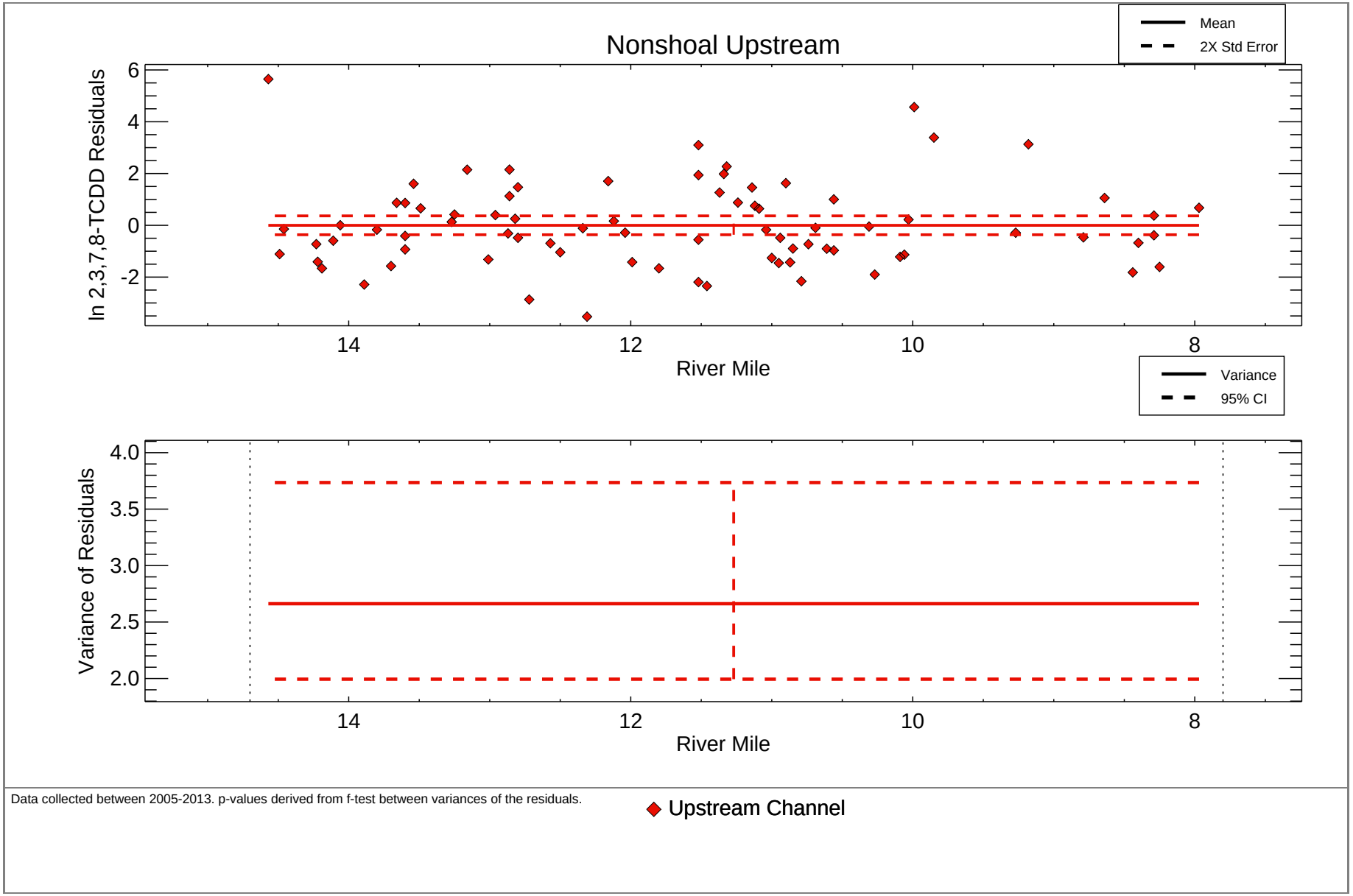


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Figure 5-6b

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Kriging Group (vgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

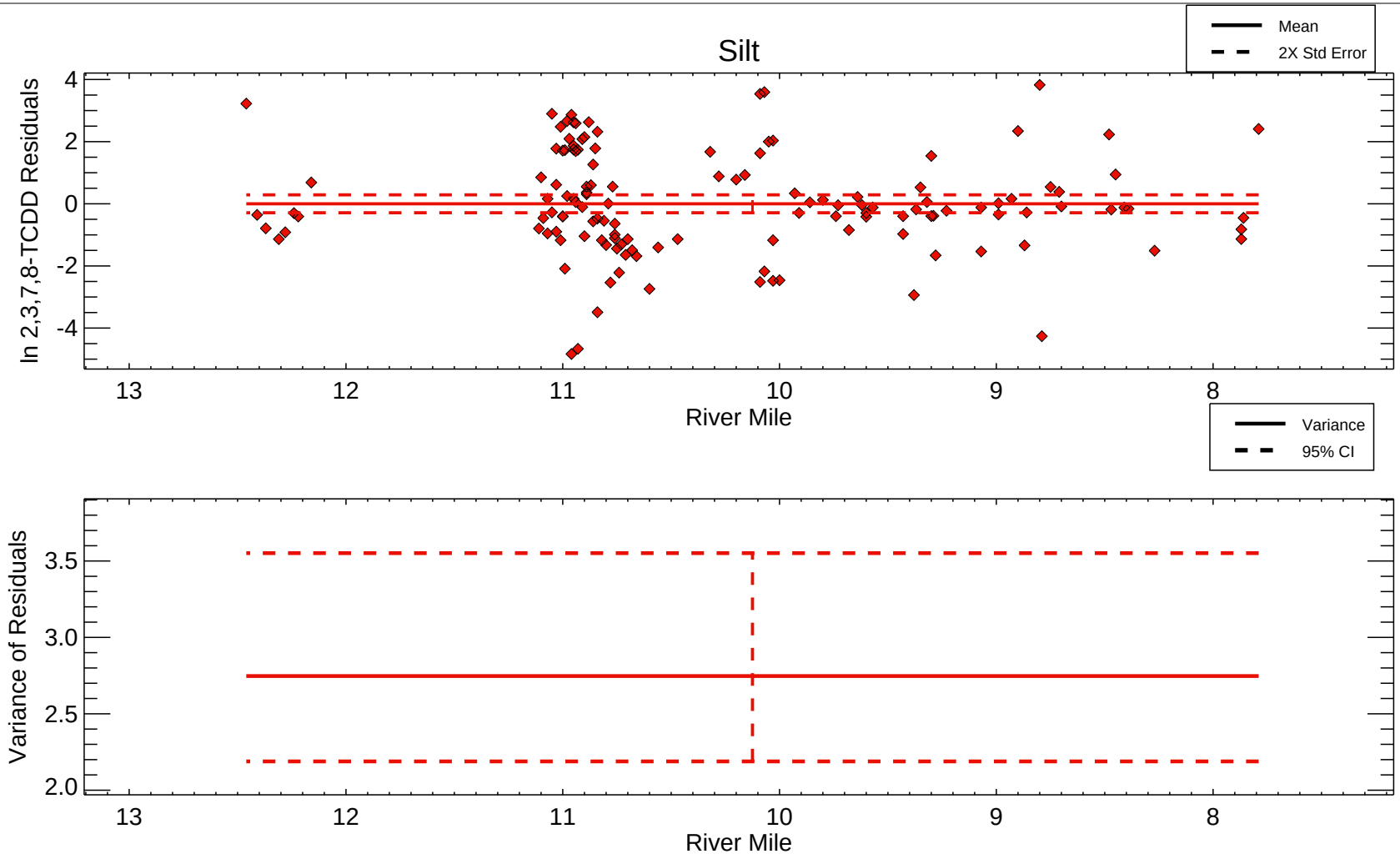


Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

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Figure 5-6c

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Kriging Group (vgroup)

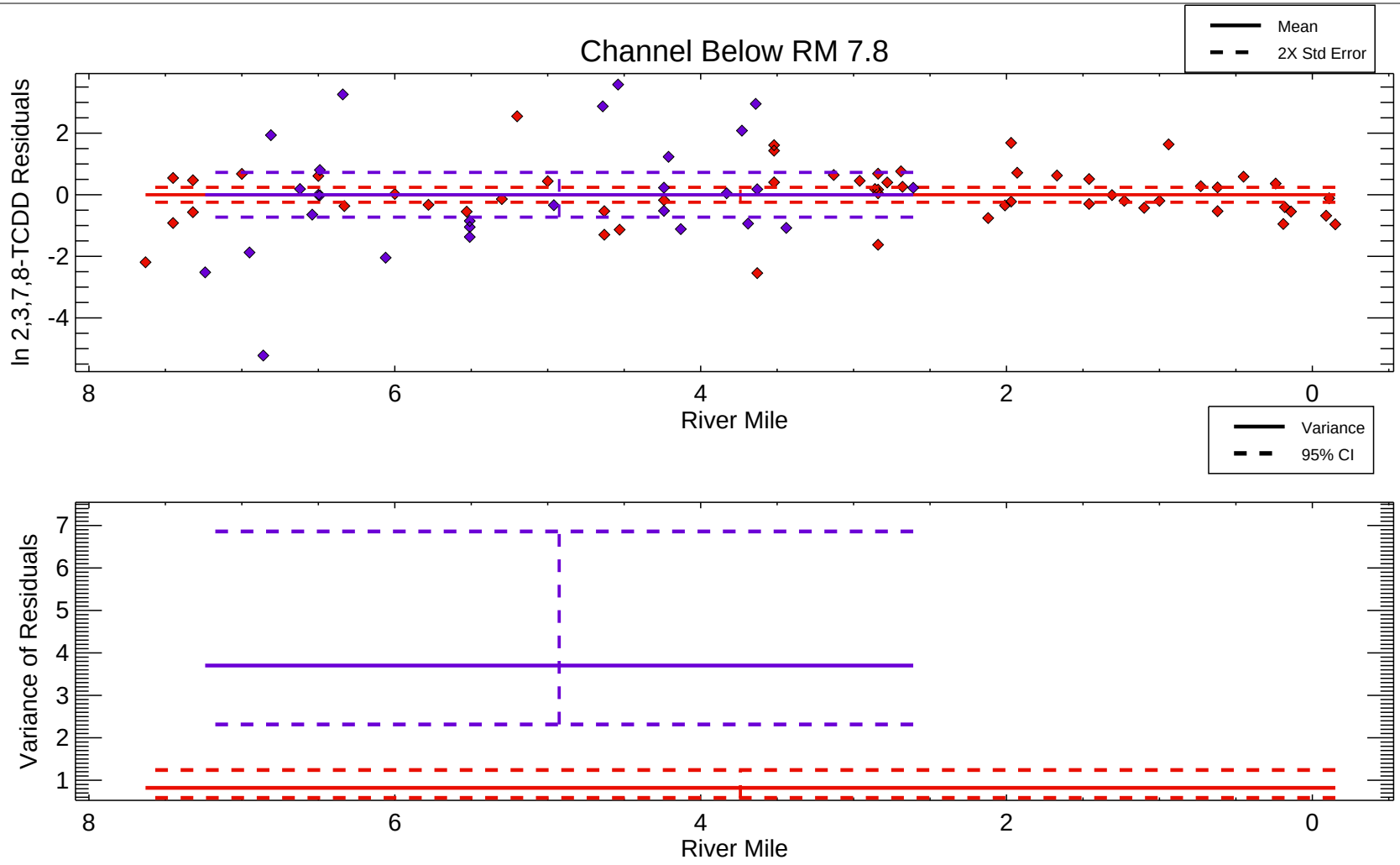


Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

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Figure 5-6d

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Kriging Group (vgroup)



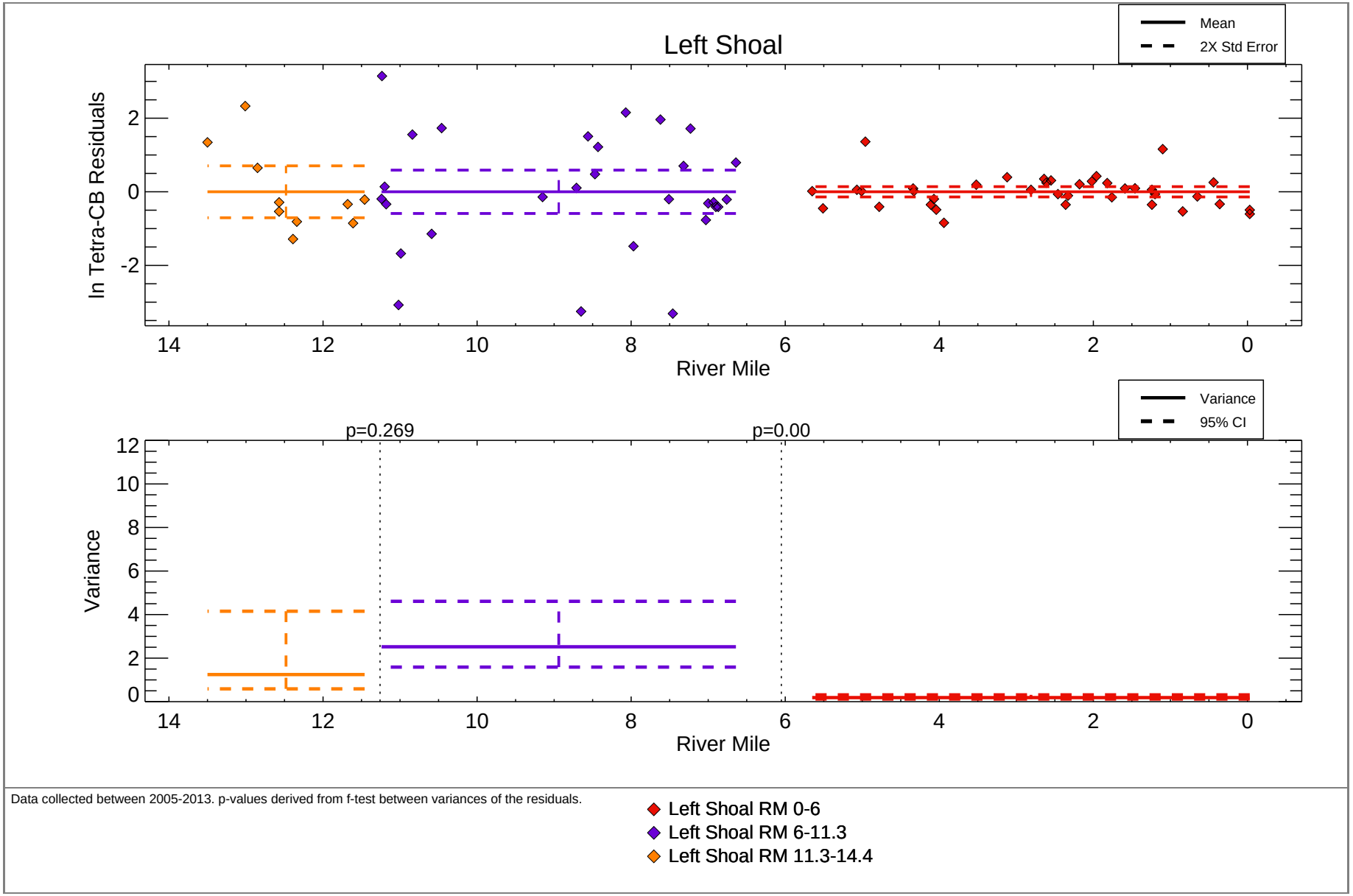
Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

◆ Downstream Channel and High Deposition since 1966
◆ No Deposition Since 1949 and Mixed Depositional Since 1966

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Figure 5-6e

Surface Sediment 2,3,7,8-TCDD Concentration vs River Mile by Kriging Group (vgroup)

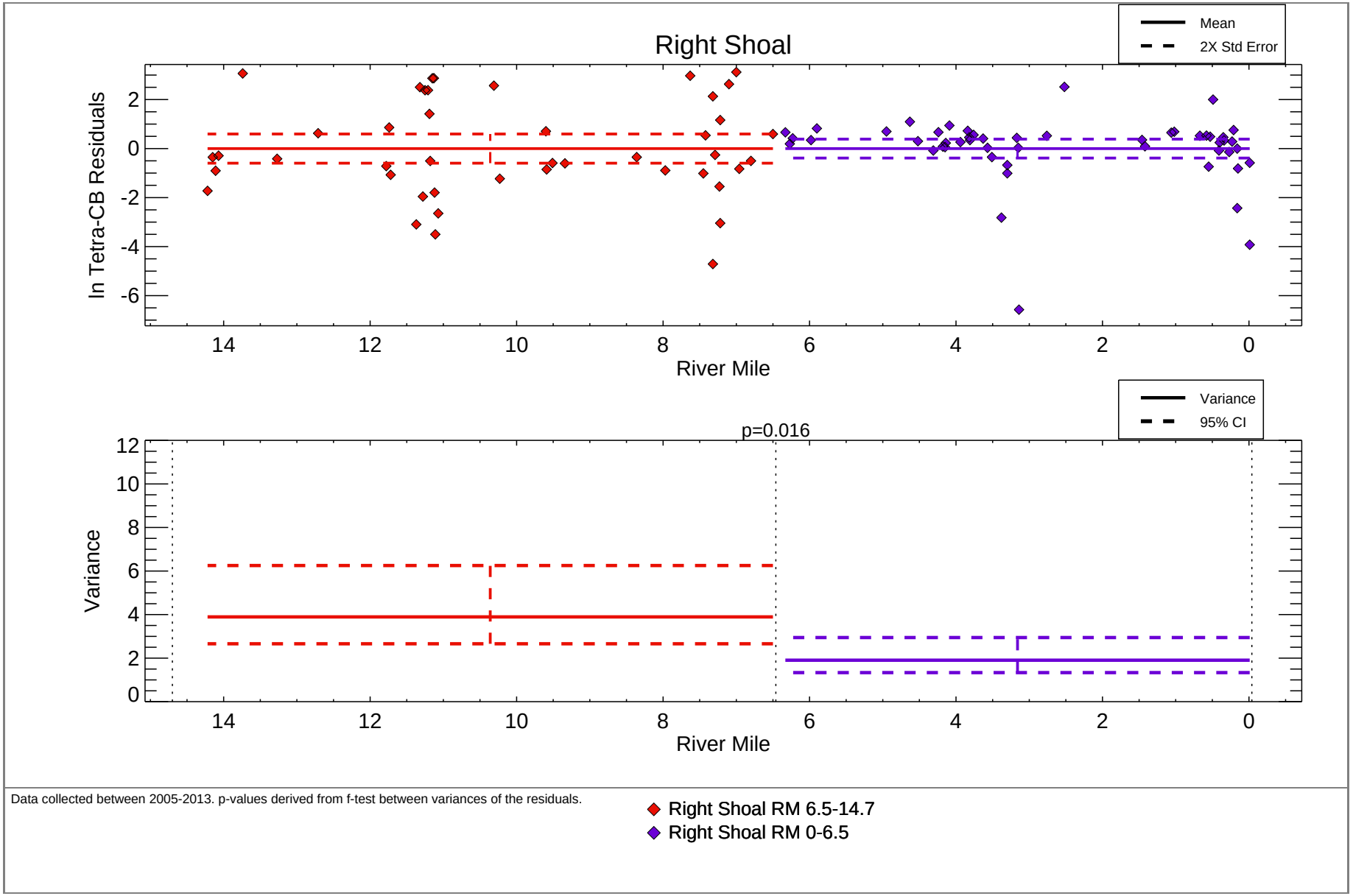


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Figure 5-7a

Surface Sediment Tetra-CB Concentration vs River Mile by Kriging Group (vgroup)

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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

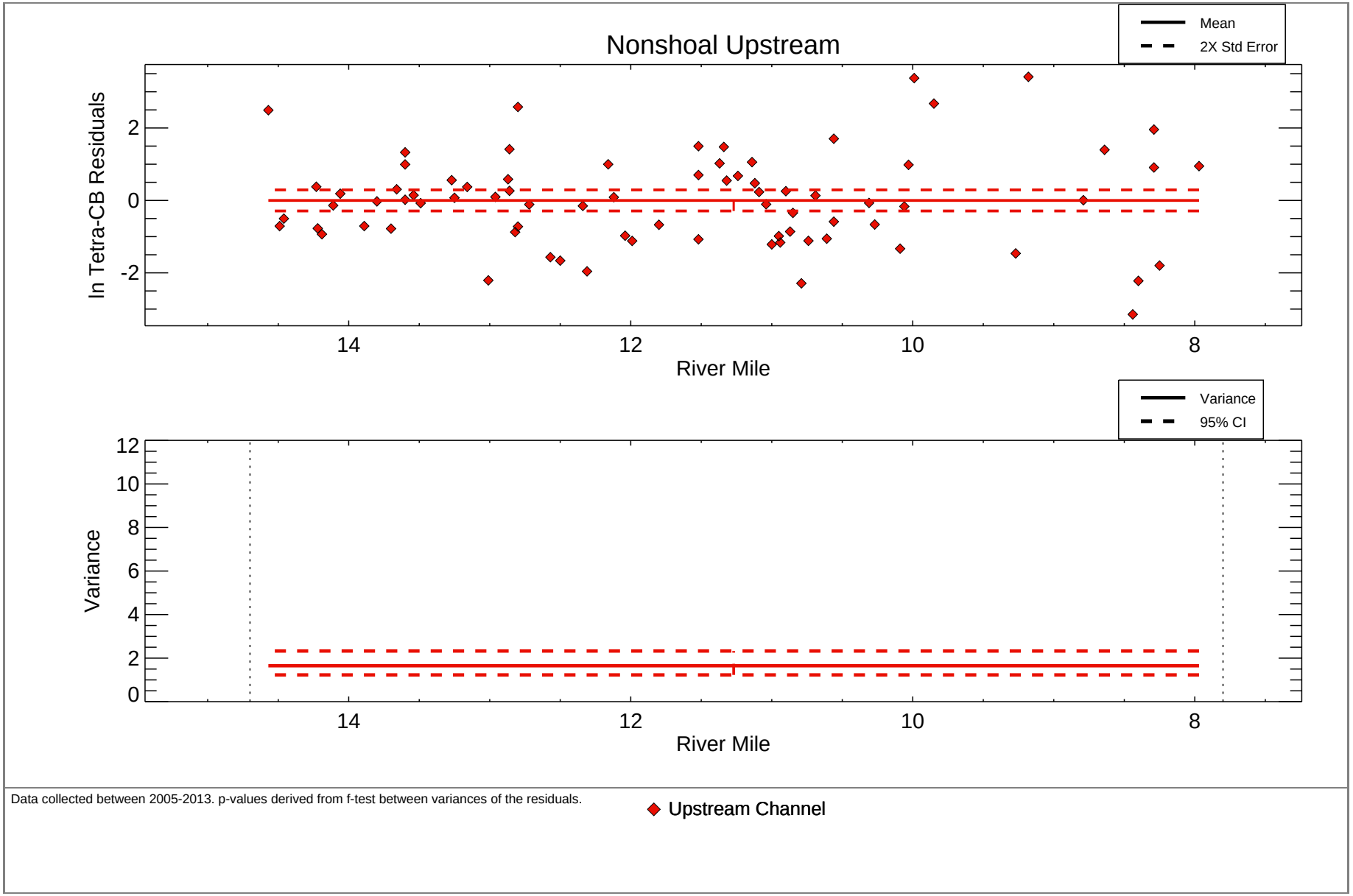
◆ Right Shoal RM 6.5-14.7
◆ Right Shoal RM 0-6.5

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Figure 5-7b

Surface Sediment Tetra-CB Concentration vs River Mile by Kriging Group (vgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

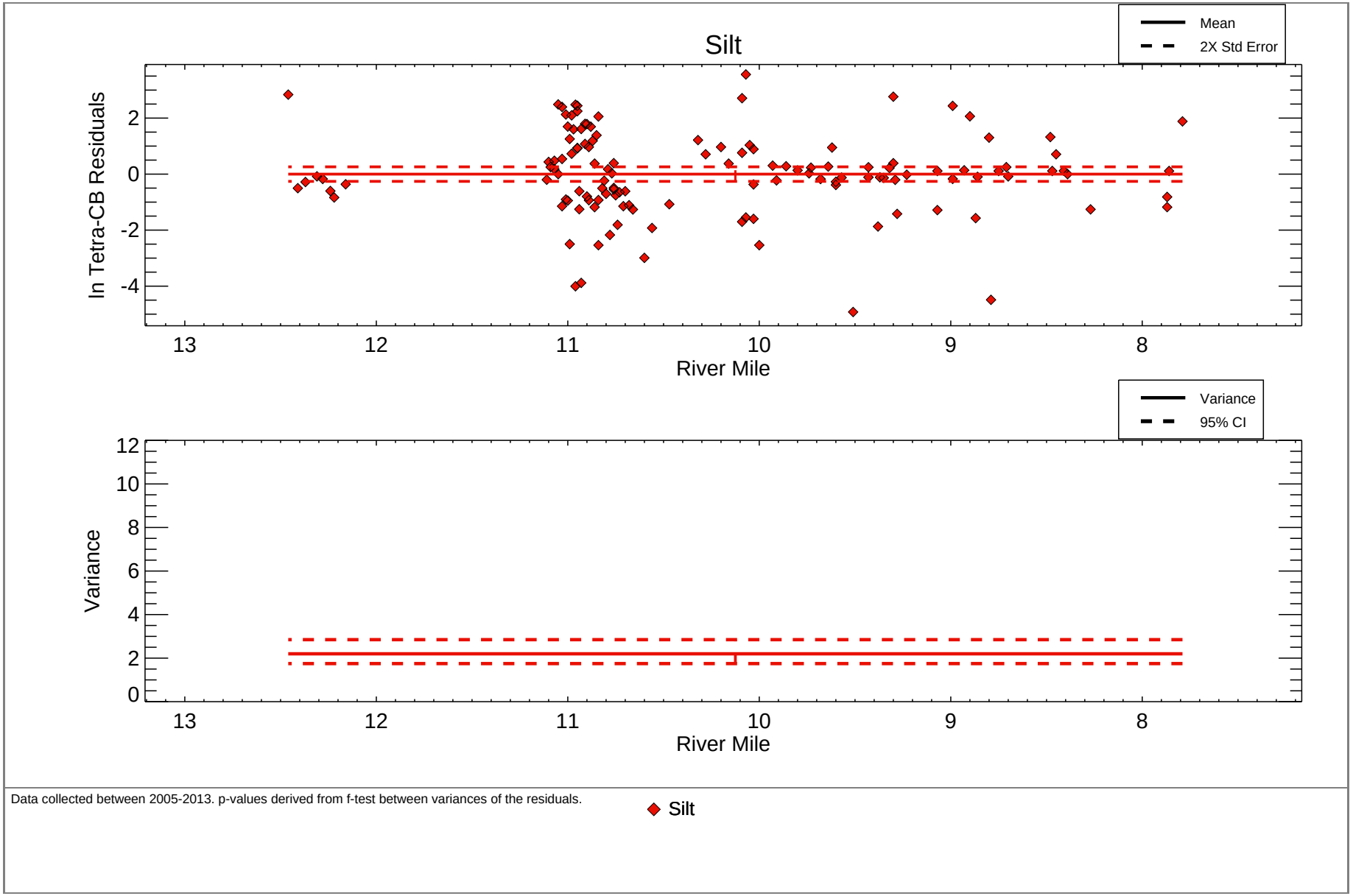
◆ Upstream Channel

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Figure 5-7c

Surface Sediment Tetra-CB Concentration vs River Mile by Kriging Group (vgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

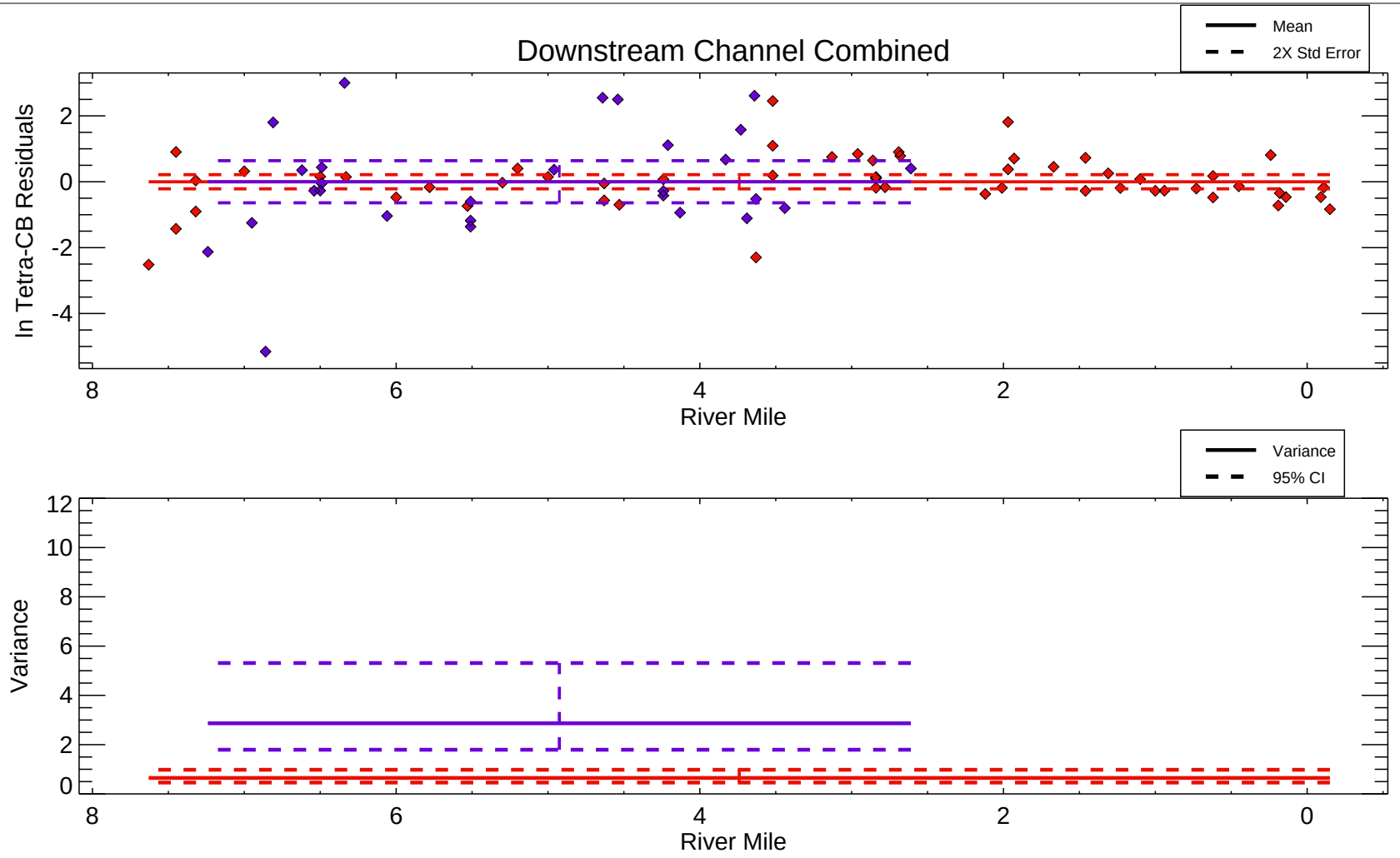


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Figure 5-7d

Surface Sediment Tetra-CB Concentration vs River Mile by Kriging Group (vgroup)

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Data collected between 2005-2013. p-values derived from f-test between variances of the residuals.

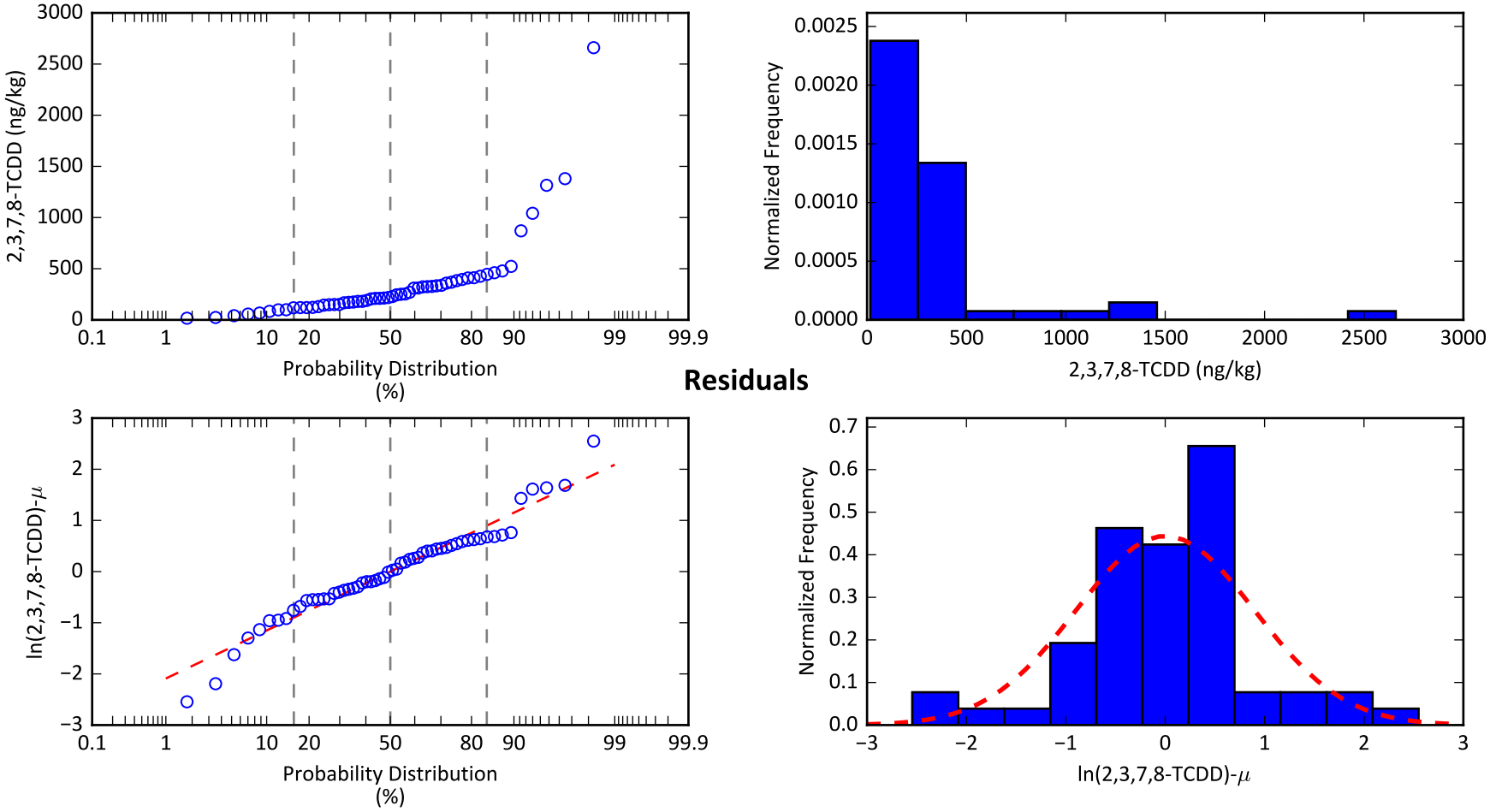
◆ Downstream Channel and High Deposition since 1966
◆ No Deposition Since 1949 and Mixed Depositional Since 1966

Publish Date: 06/19/2019 10:40 | User: GD
File Path: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_5_7_plot_te_pcb_spatials_by_vgroups.pro

Figure 5-7e

Surface Sediment Tetra-CB Concentration vs River Mile by Kriging Group (vgroup)

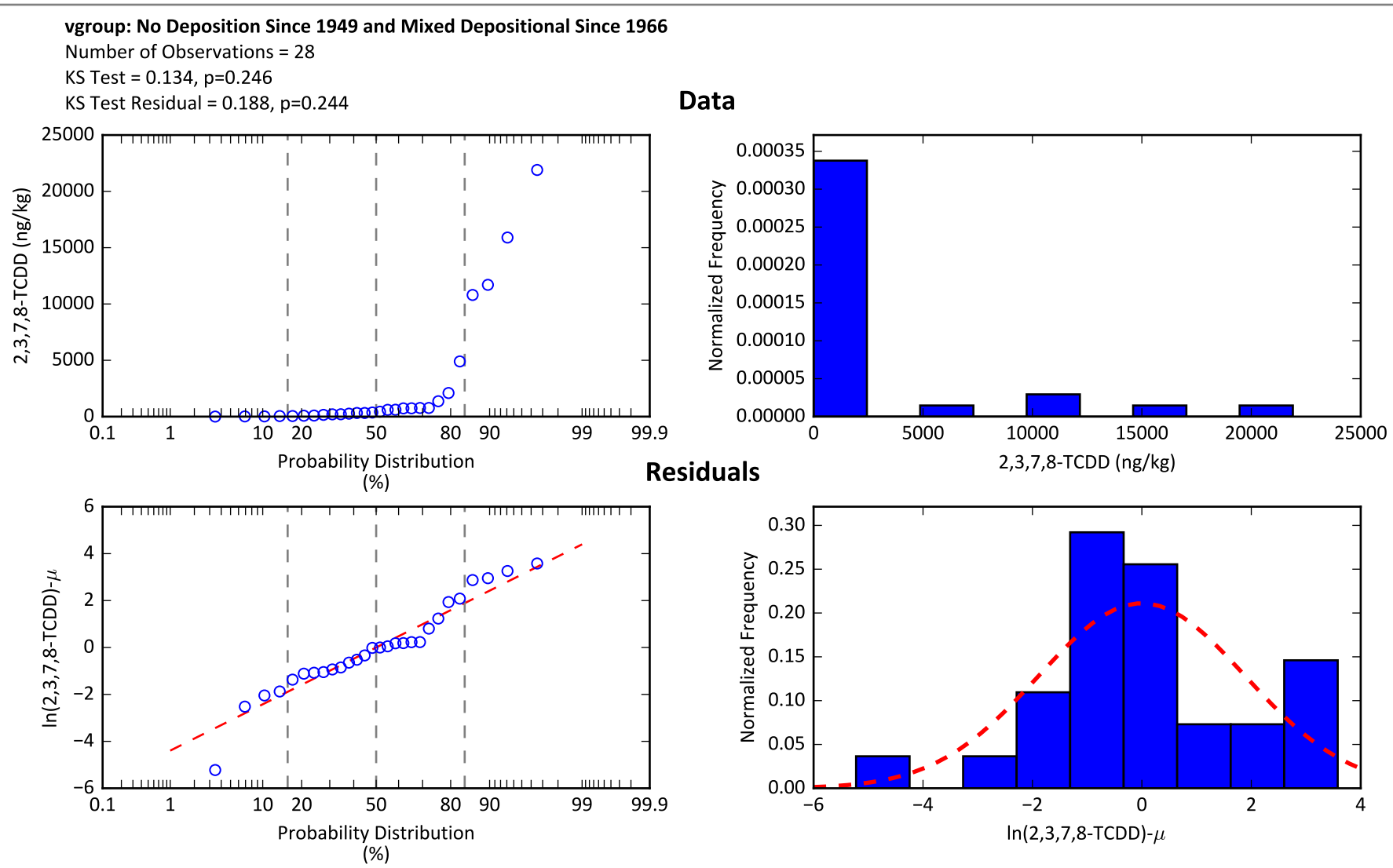
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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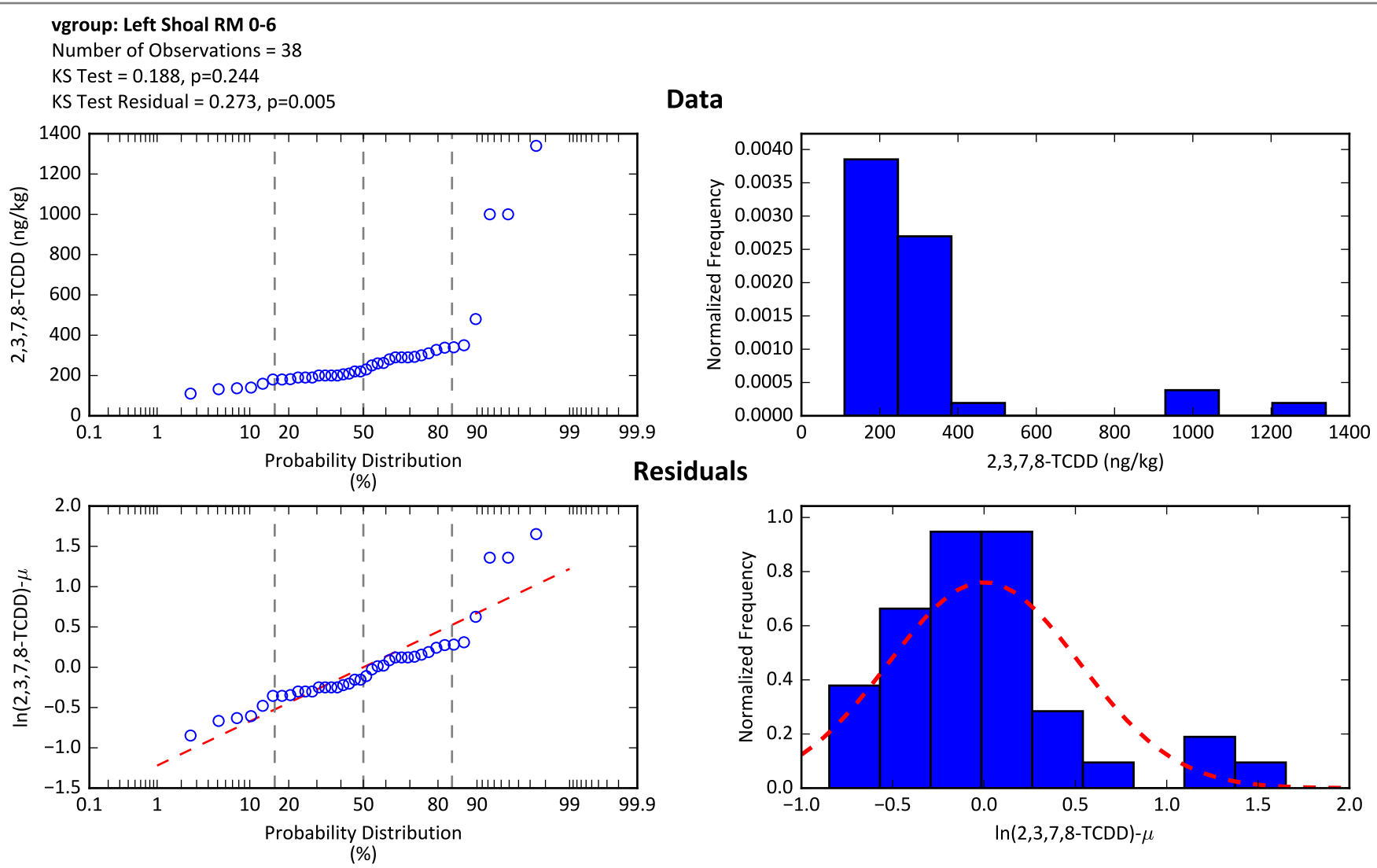
Figure 5-8a
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

Publish Date: 06/19/2019 10:46 AM | User: GD
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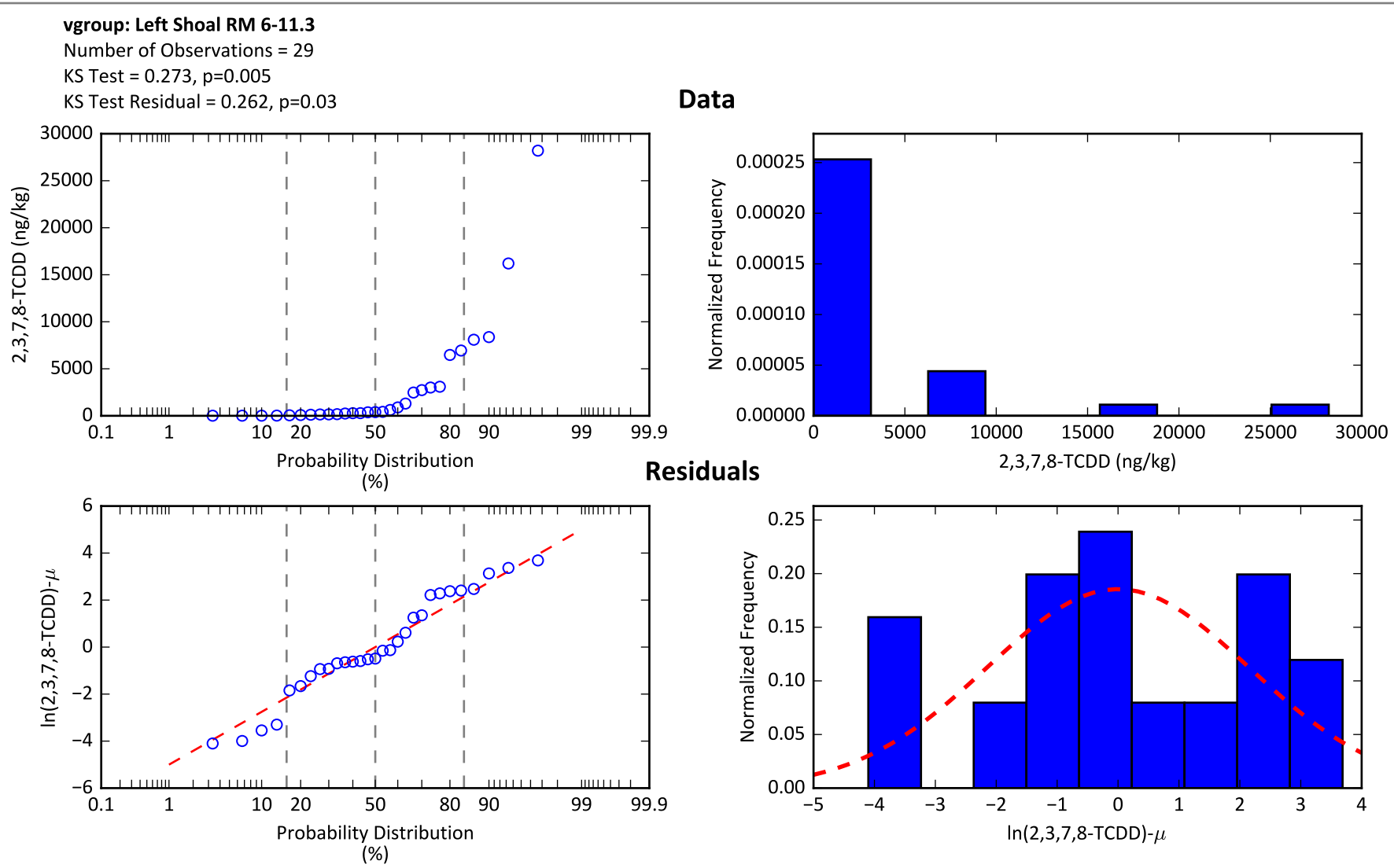
Figure 5-8b
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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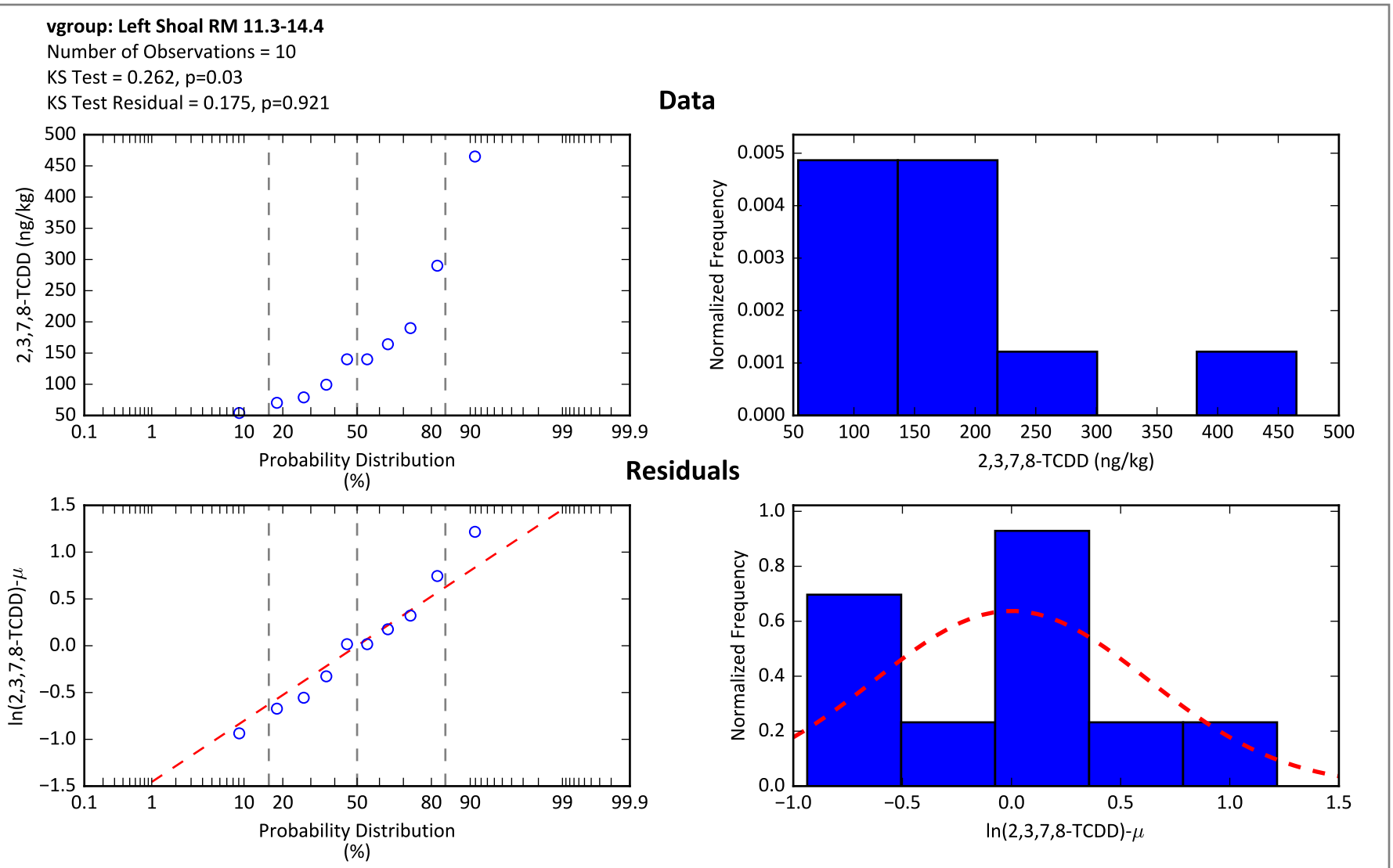
Figure 5-8c
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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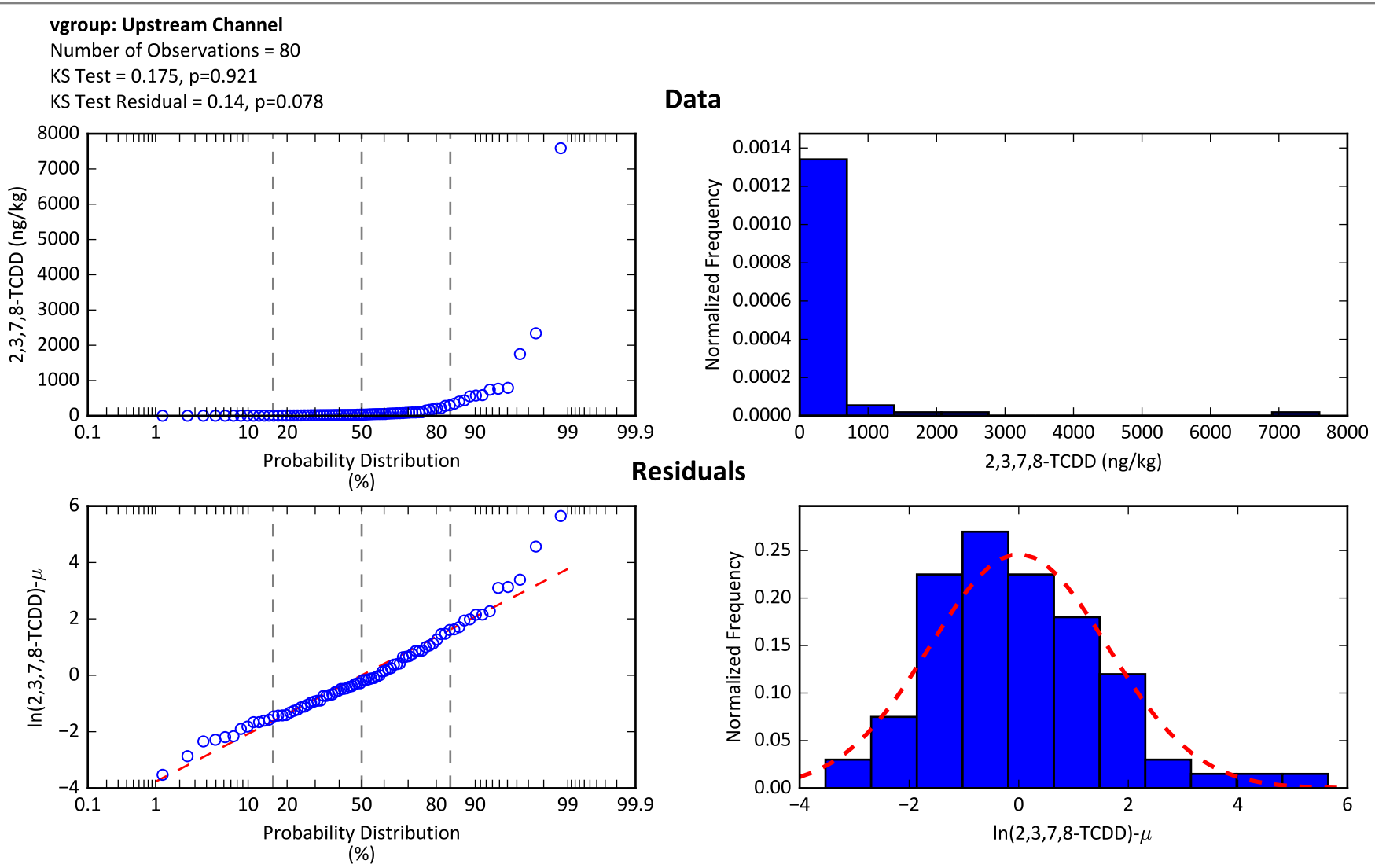
Figure 5-8d
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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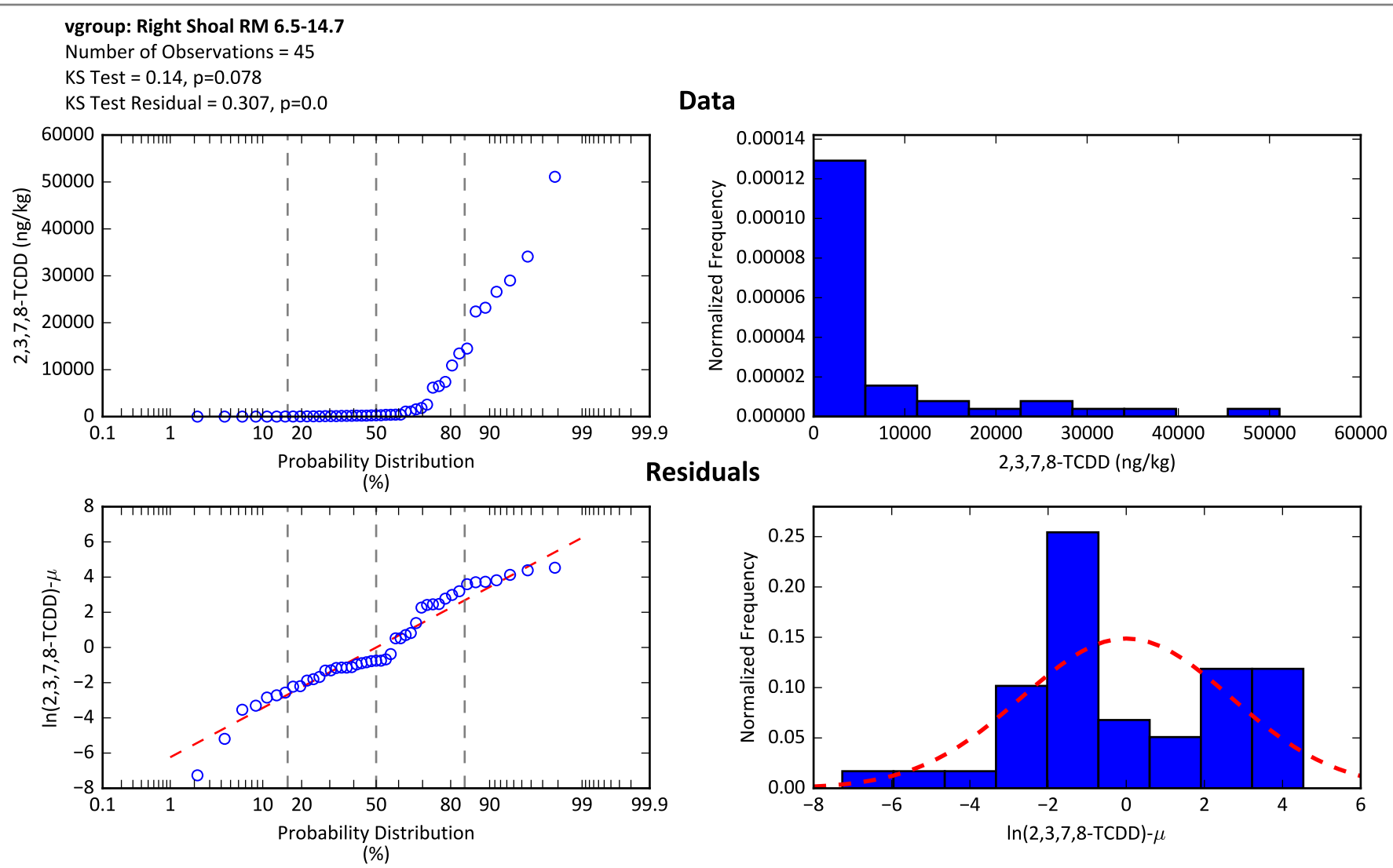
Figure 5-8e
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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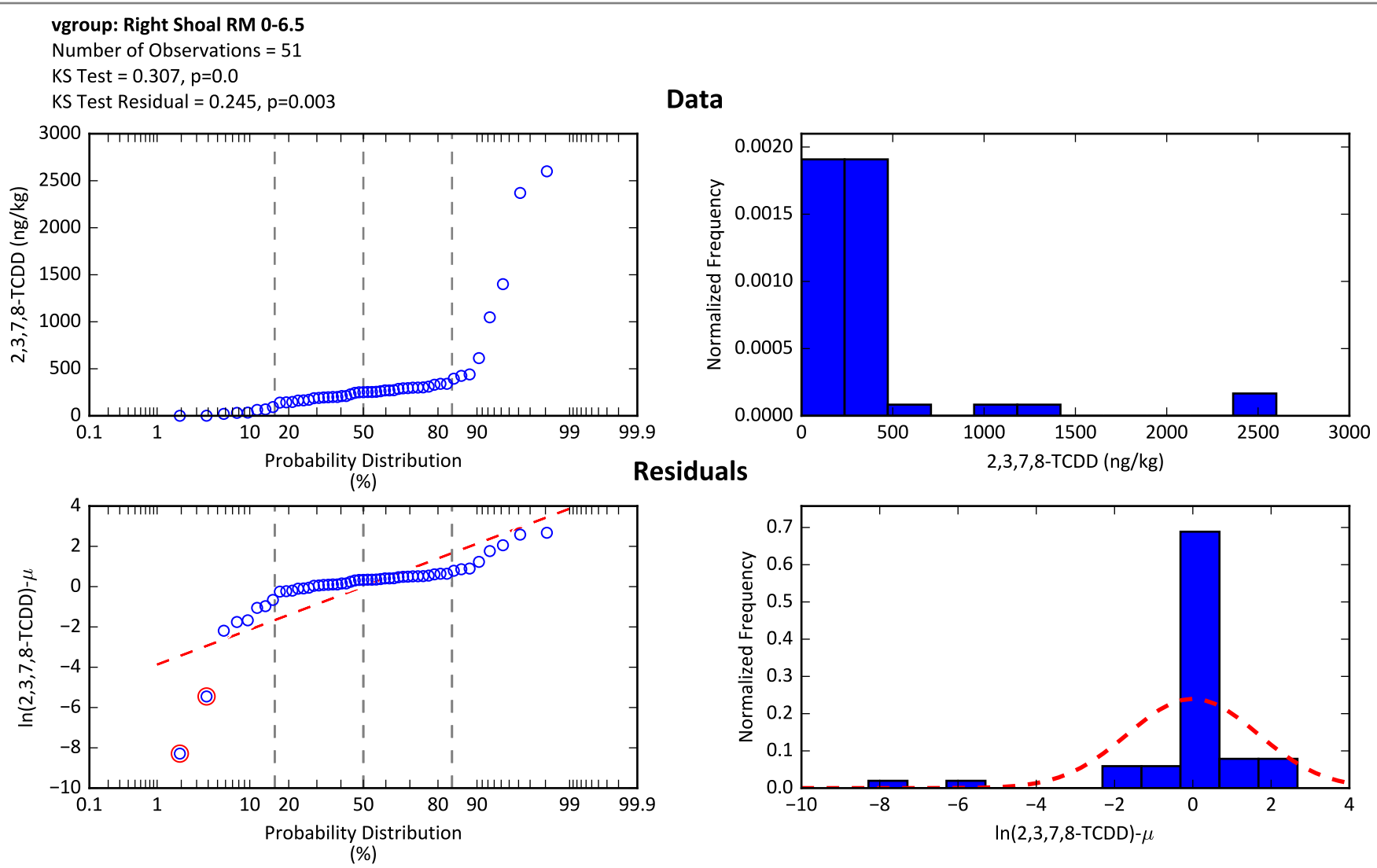
Figure 5-8f
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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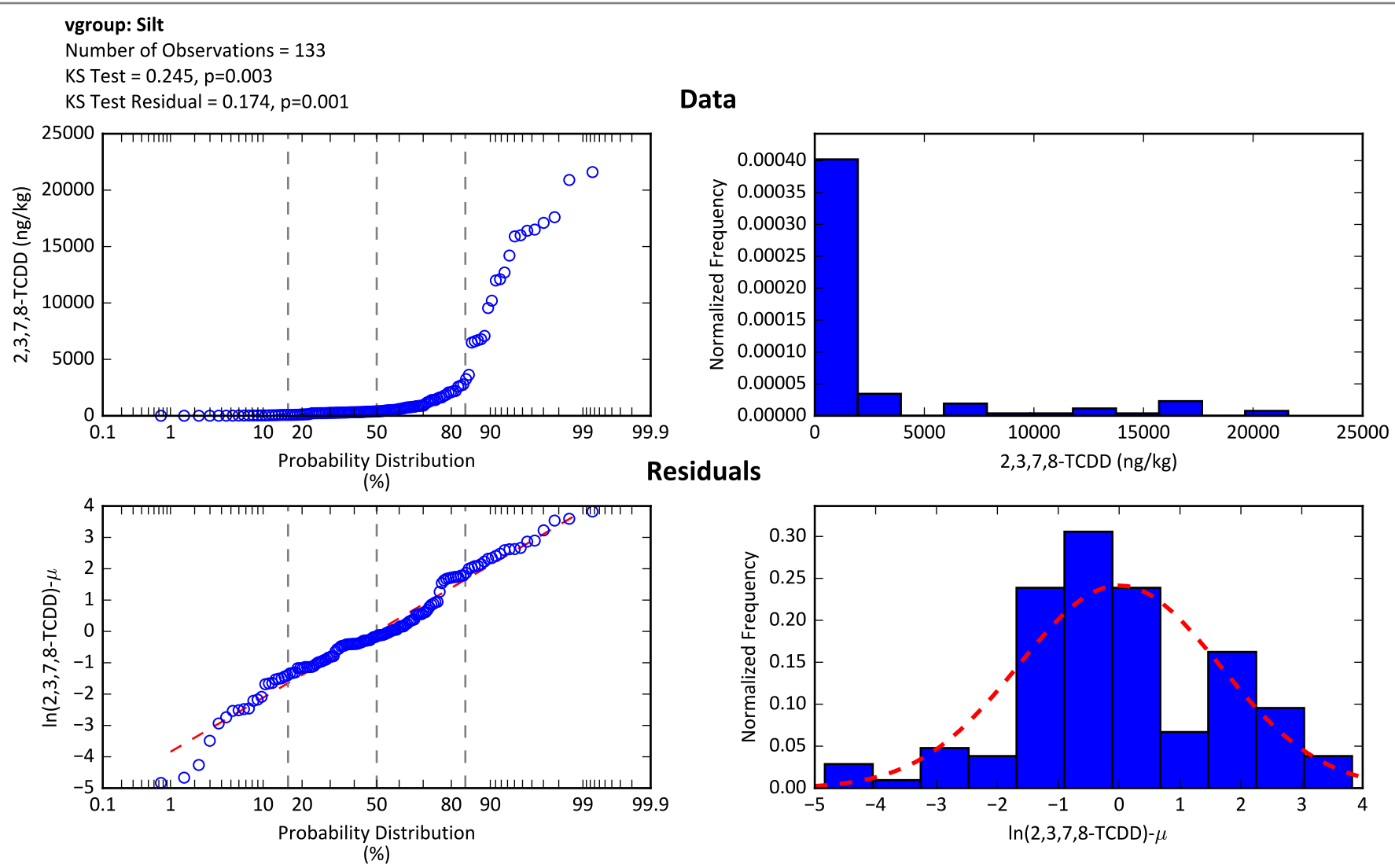
Figure 5-8g
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: The two circled points (CLRC-002 and 12A-0421) were removed from the distribution prior to calculating the variance that was used to scale the variogram.
Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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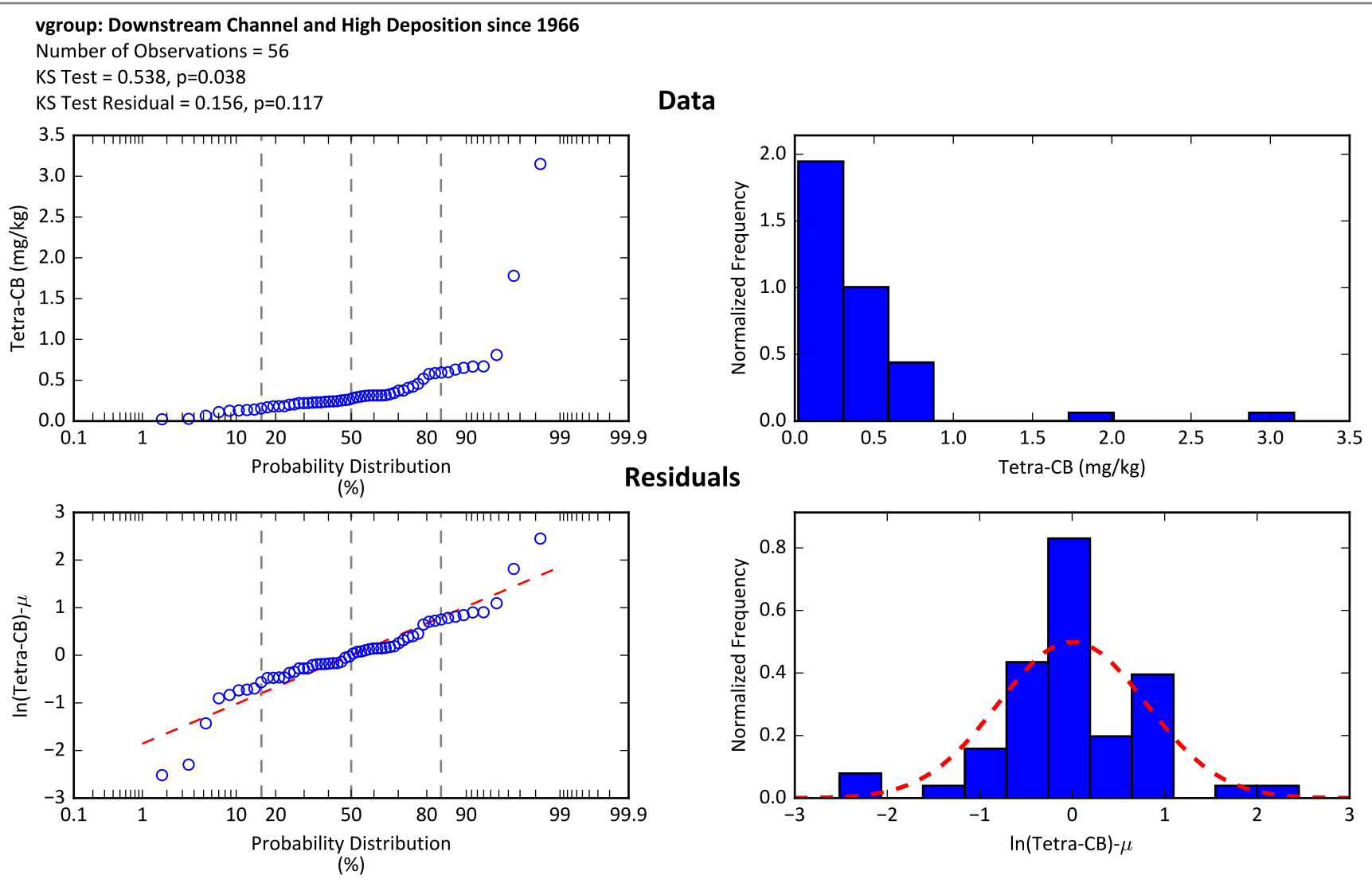
Figure 5-8h
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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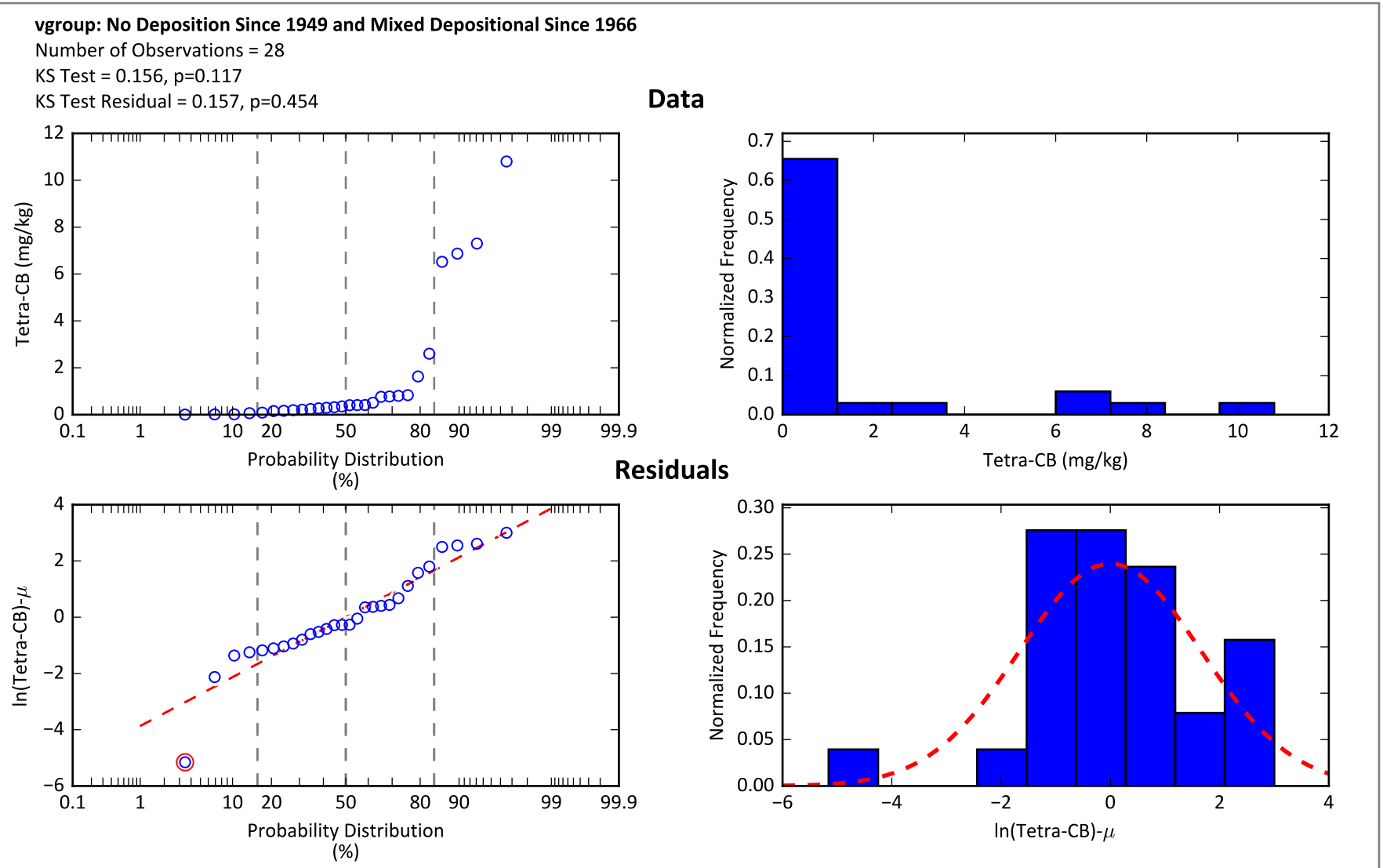
Figure 5-8i
Distribution of 2,3,7,8-TCDD by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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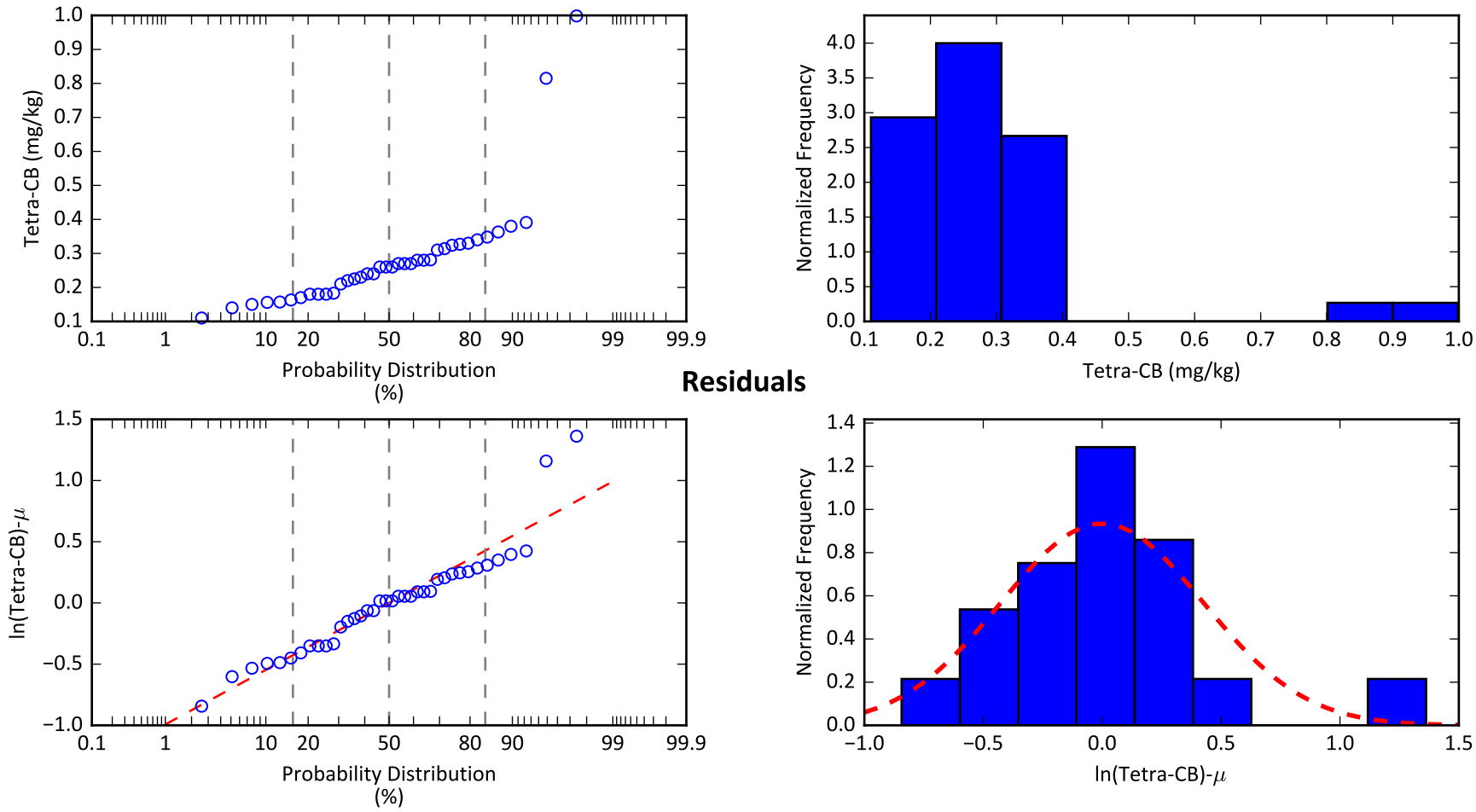
Figure 5-9a
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: The circled point (12A-0455) was removed from the distribution prior to calculating the variance that was used to scale the variogram.
Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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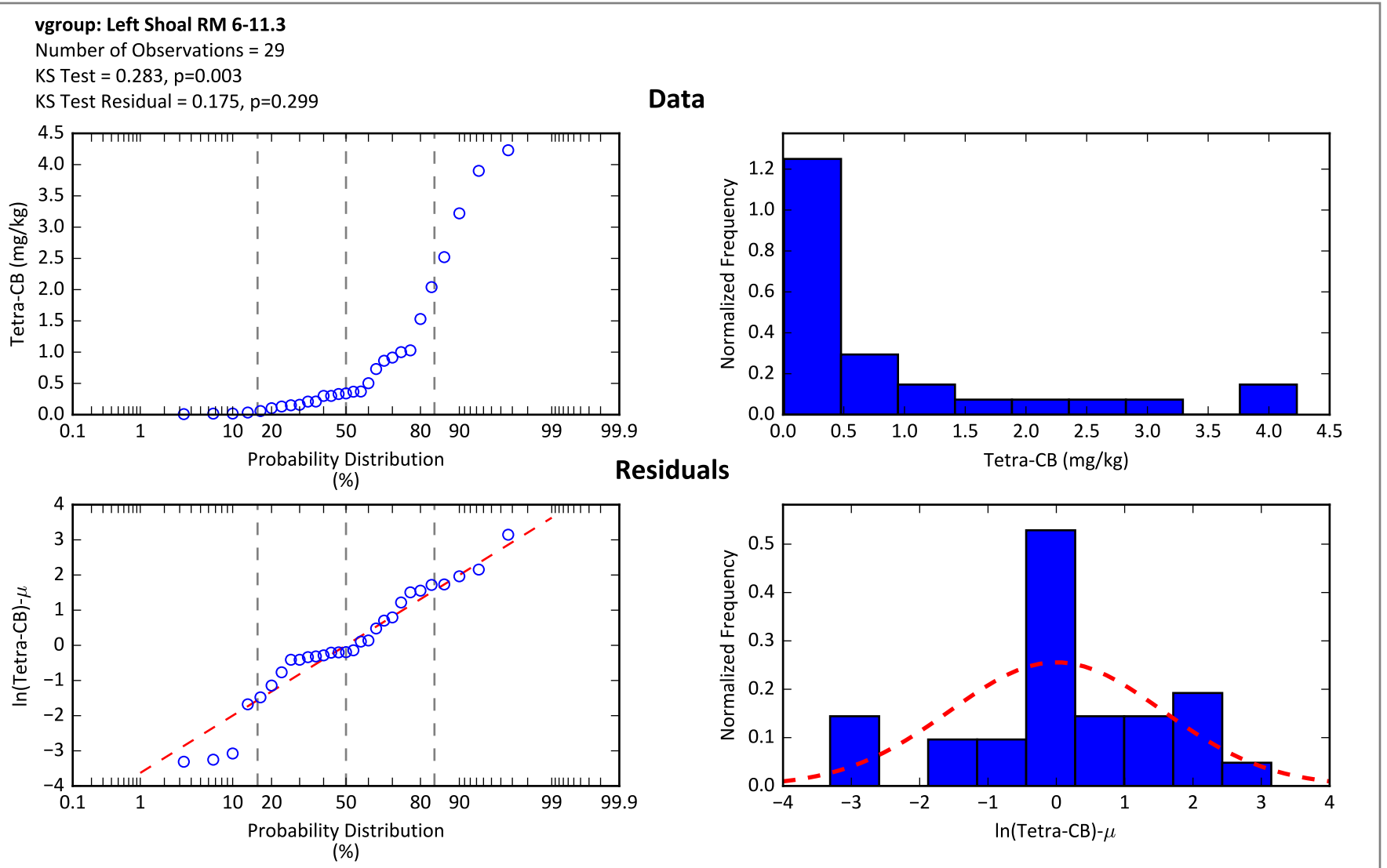
Figure 5-9b
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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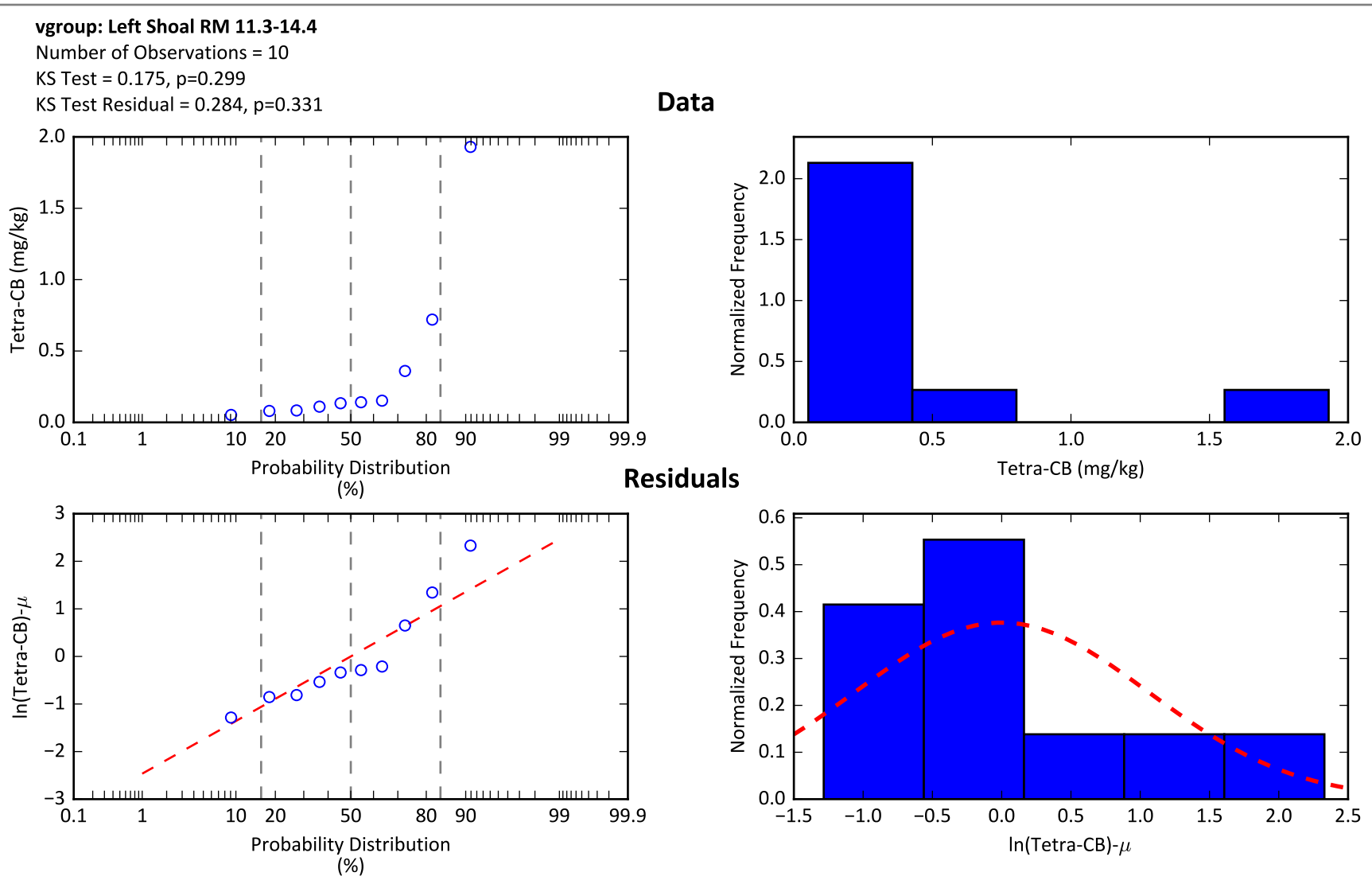
Figure 5-9c
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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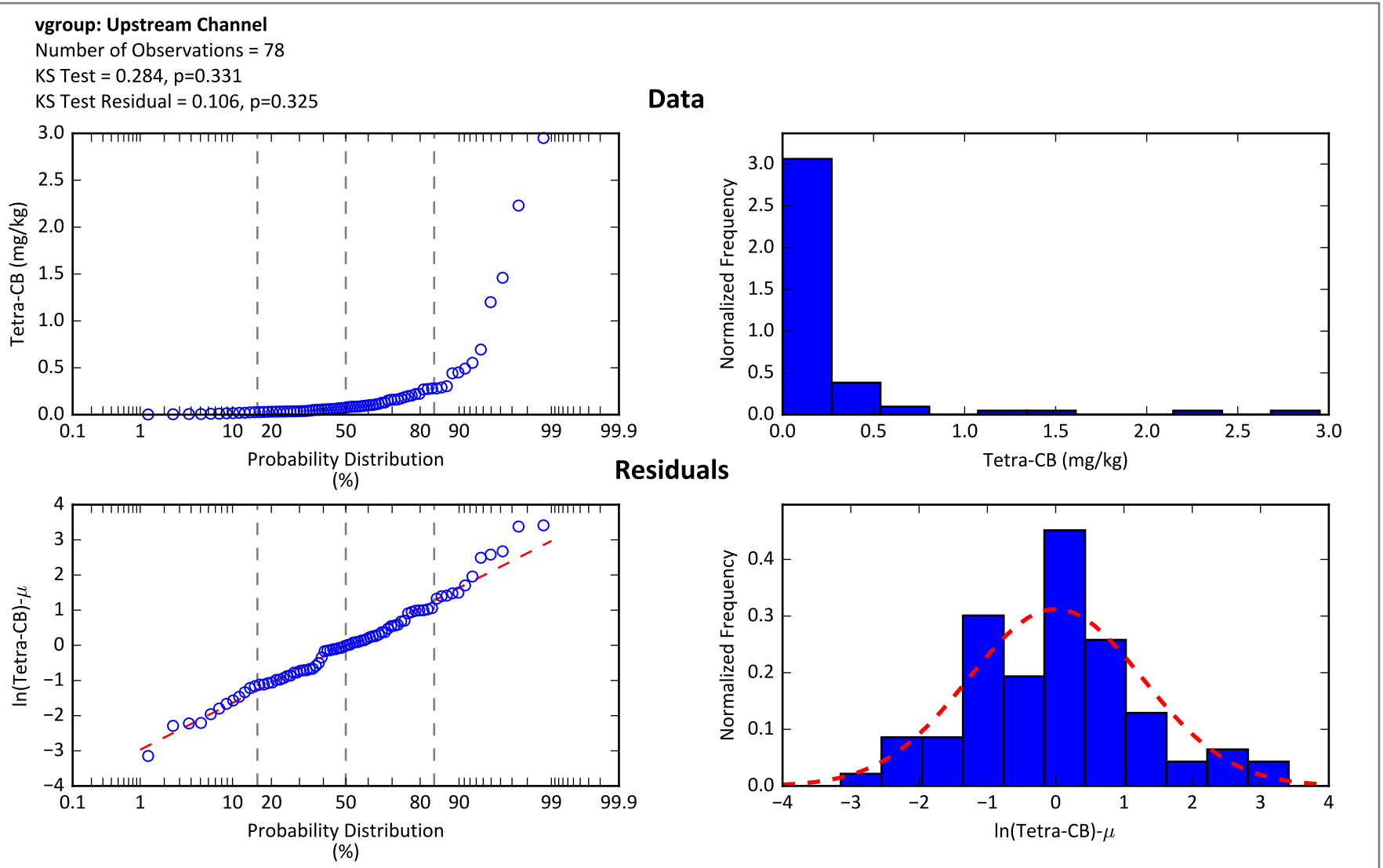
Figure 5-9d
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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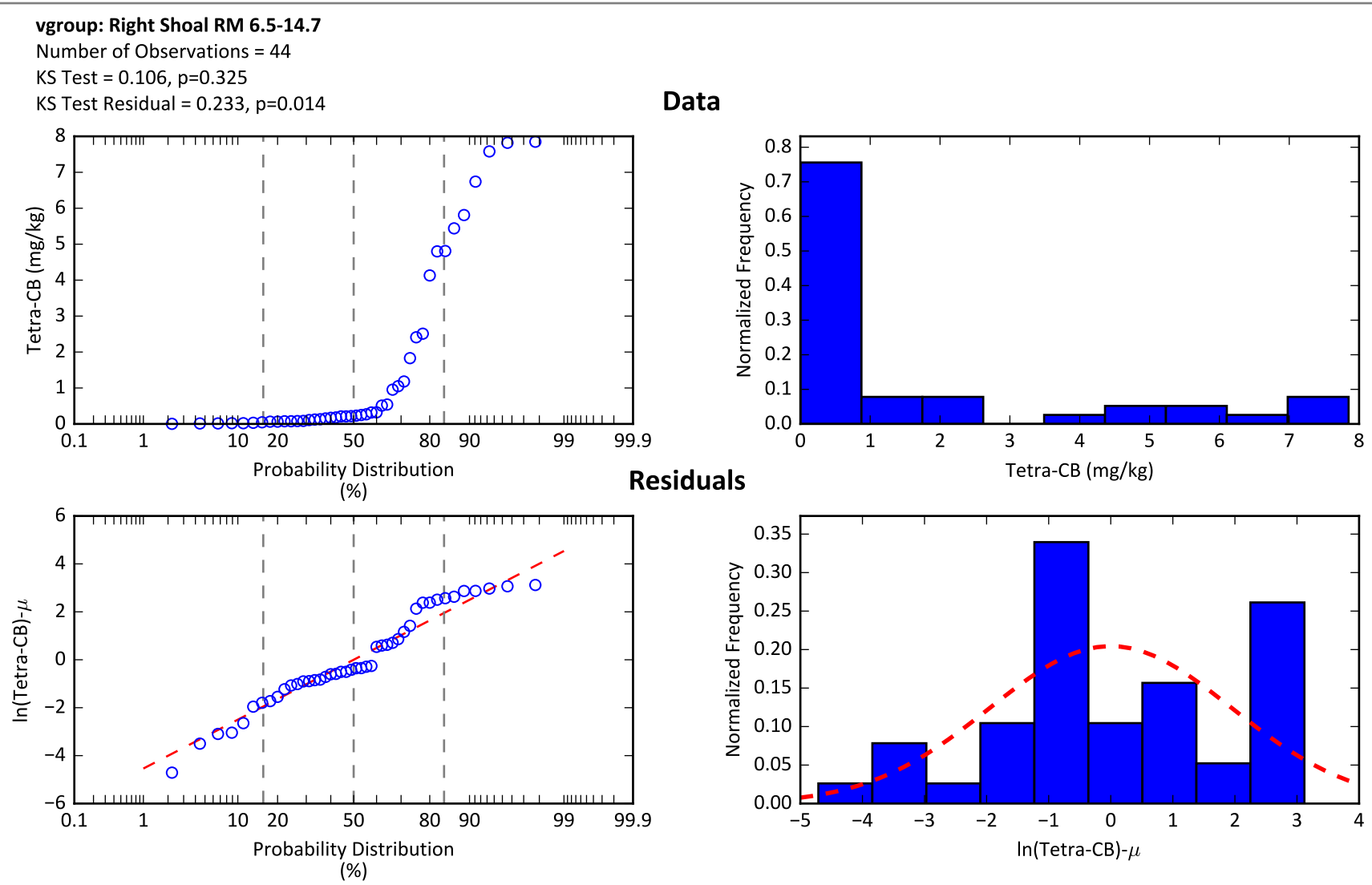
Figure 5-9e
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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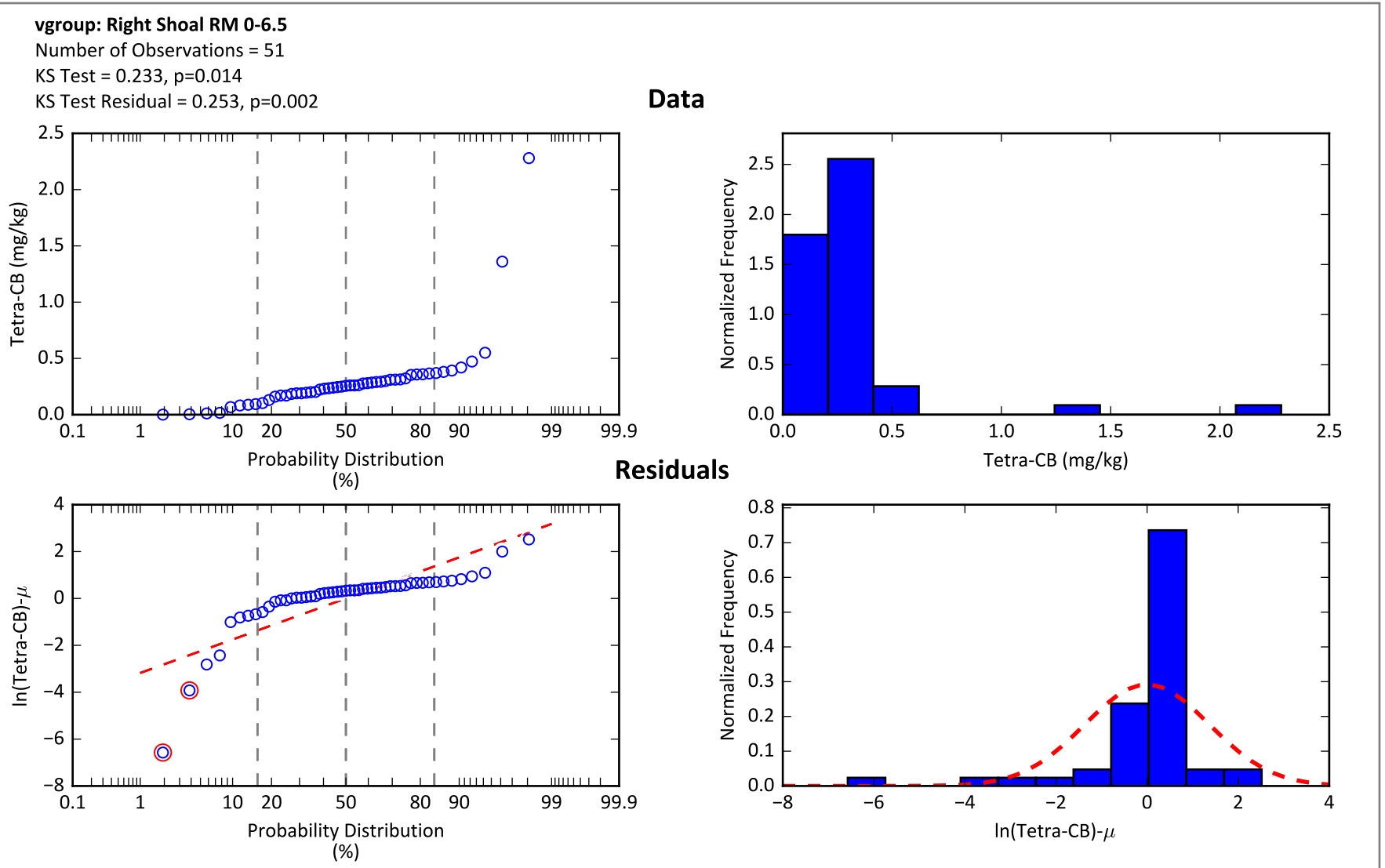
Figure 5-9f
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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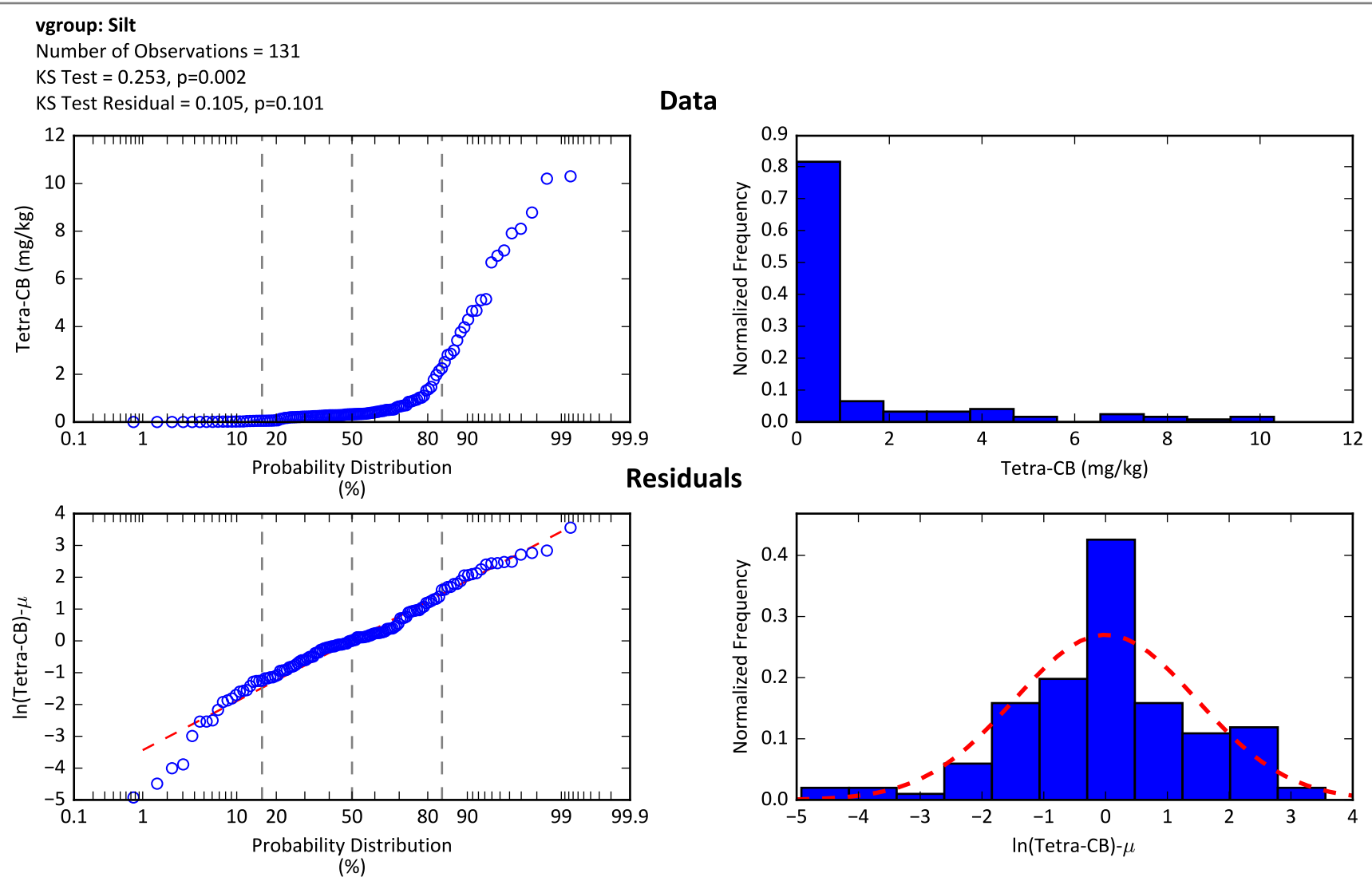
Figure 5-9g
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: The two circled points (CLRC-002 and 12A-0421) were removed from the distribution prior to calculating the variance that was used to scale the variogram.
Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

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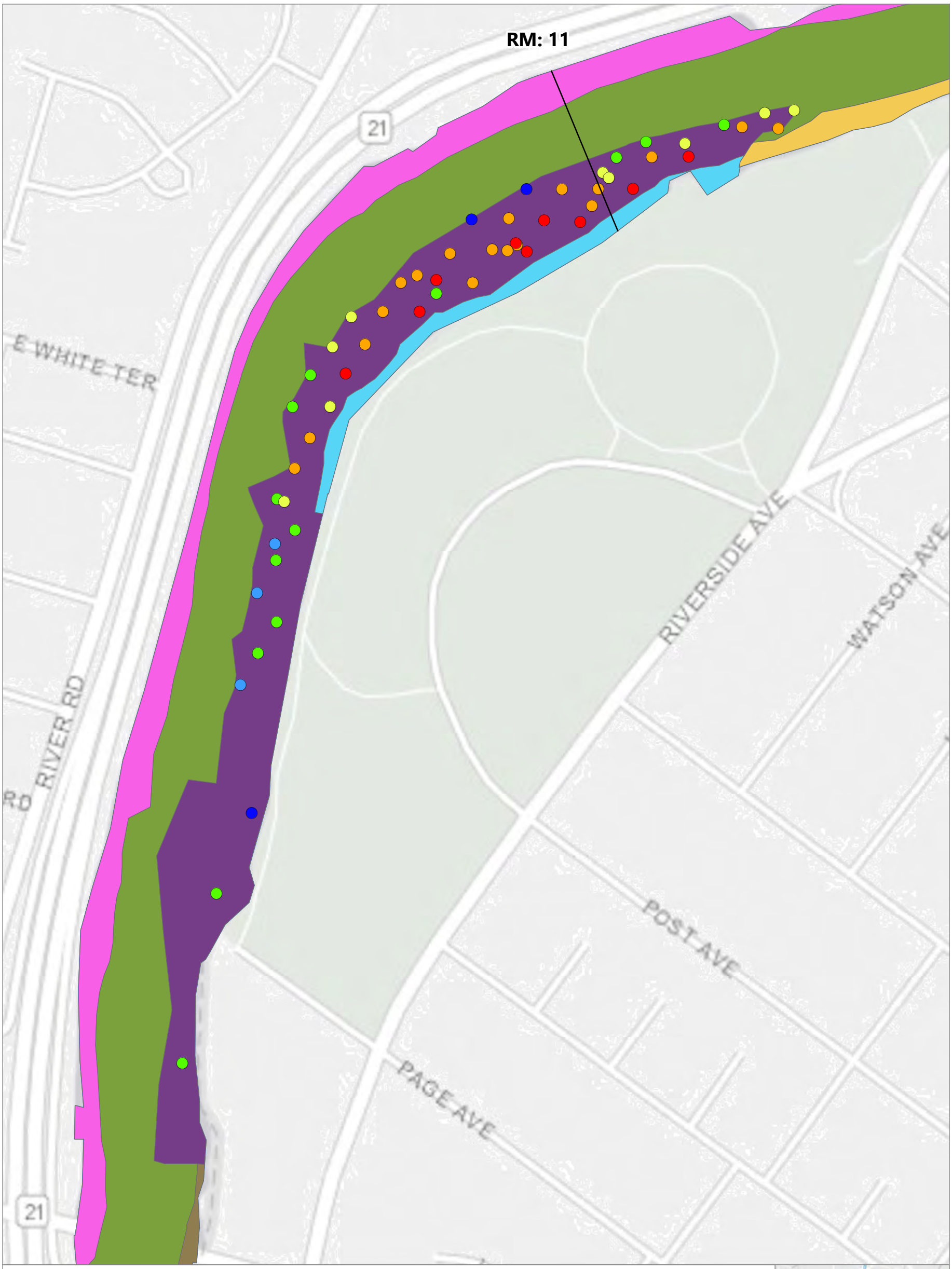
Figure 5-9h
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Notes: Red dashed line represents a normal distribution with the same mean and standard deviation as the residuals.
μ is the mean log concentration of the mgroup for each data point. KS Test = Kolmogorov-Smirnov Test

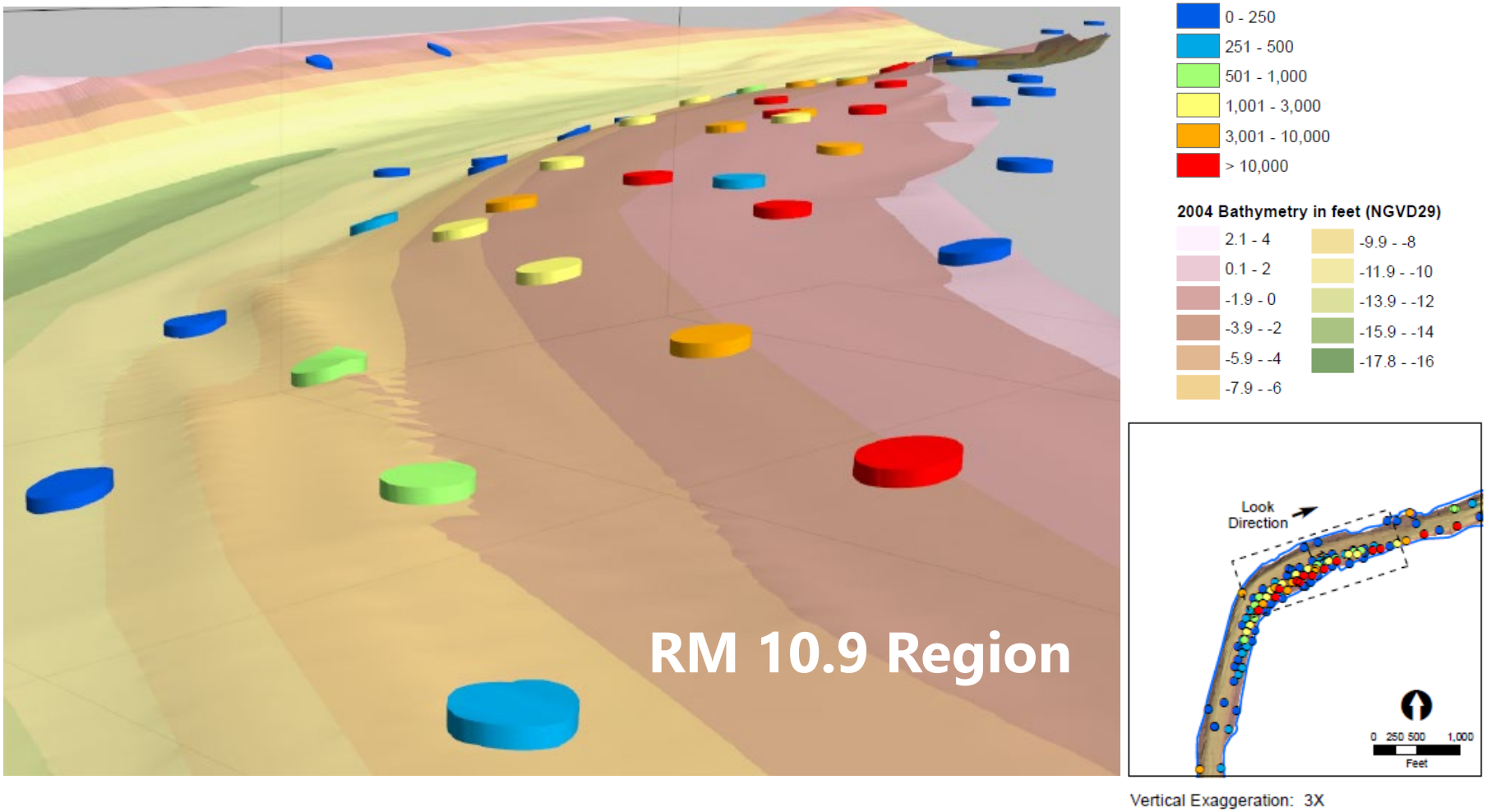
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Figure 5-9i
Distribution of Tetra-CB by vgroup
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



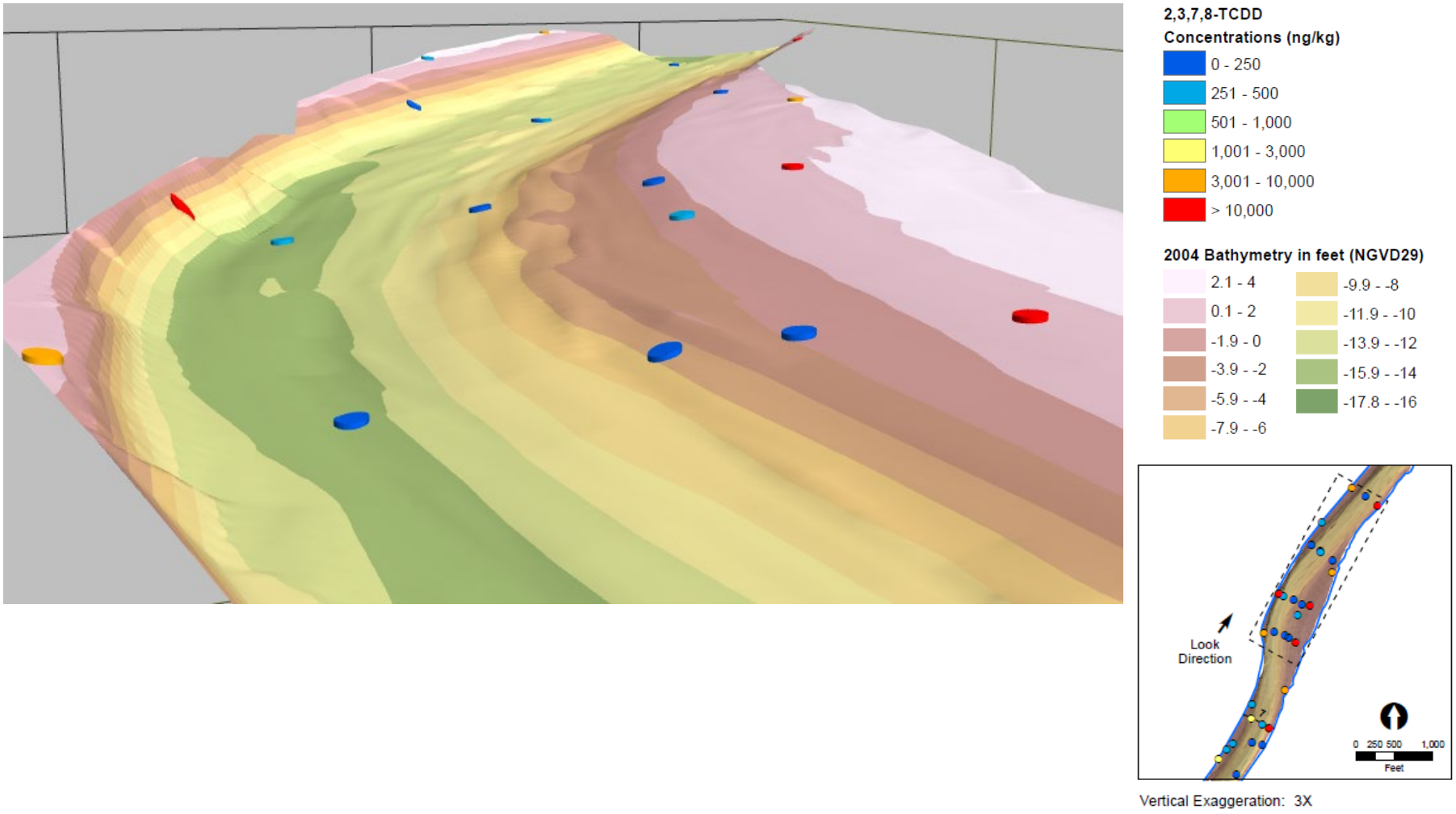
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Figure 5-10
Surface Sediment 2,3,7,8-TCDD Data Used in RM 10.9 Silt Deposit Variogram
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



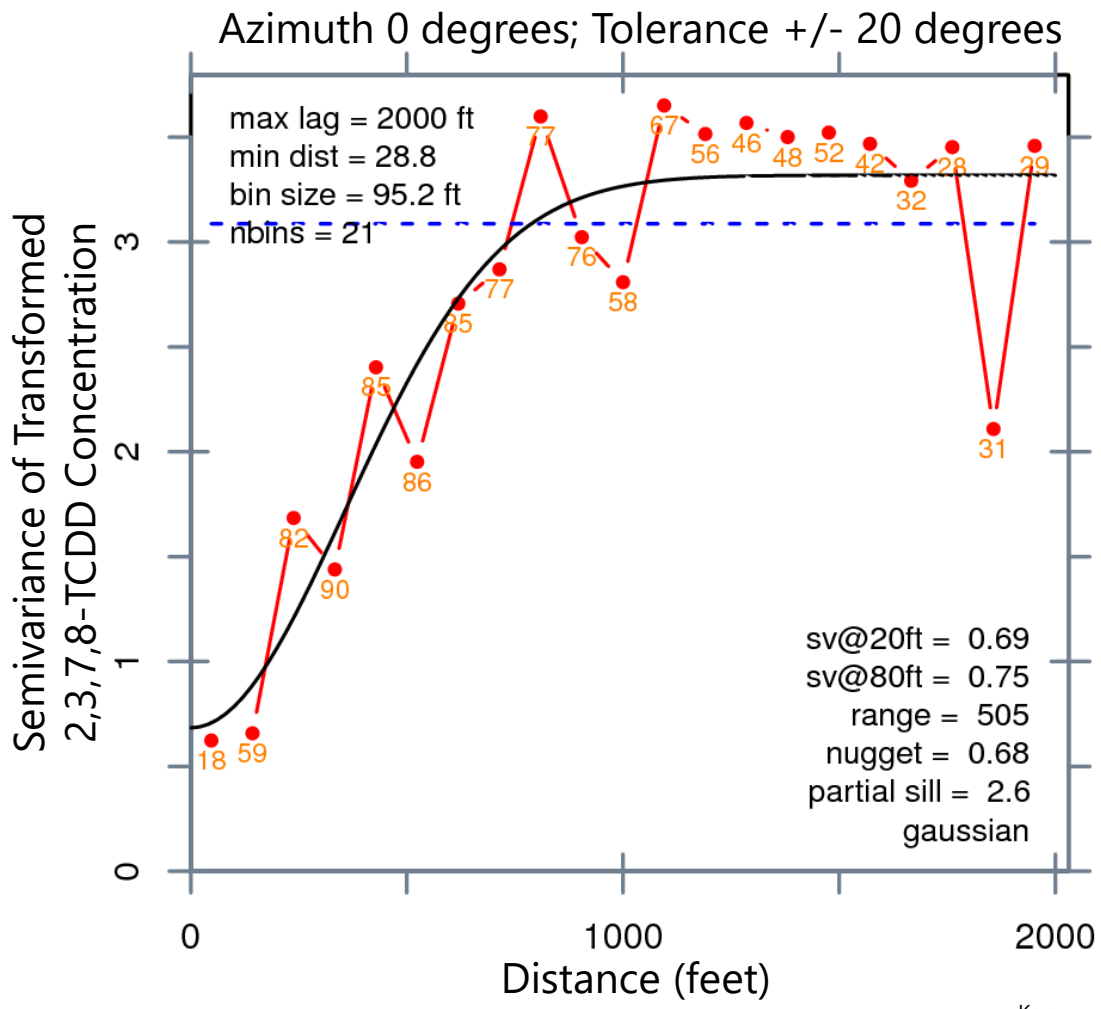
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Figure 5-11a
Surface Sediment 2,3,7,8-TCDD Concentration and LPR Bathymetry
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 5-11b
Surface Sediment 2,3,7,8-TCDD Concentration and LPR Bathymetry
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

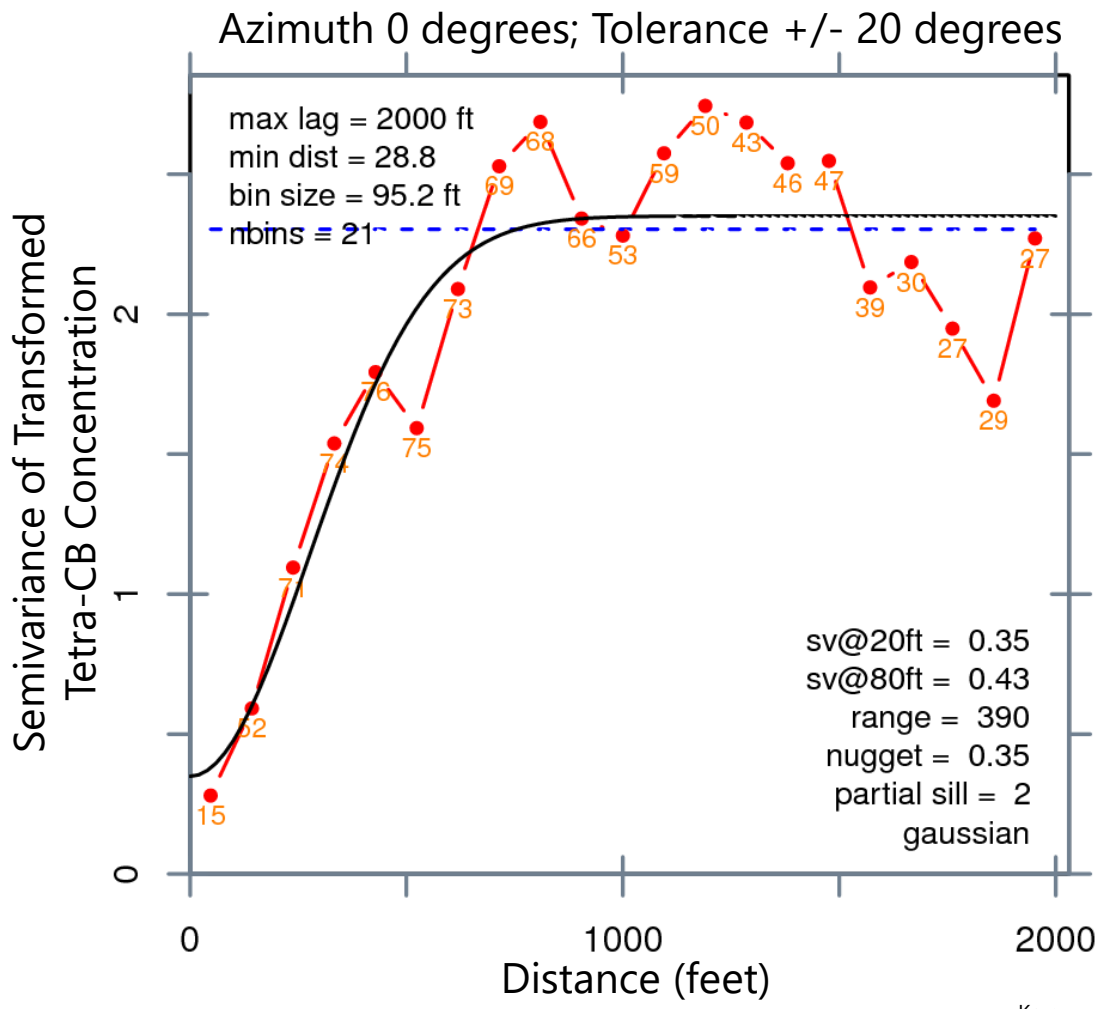


Notes:
The black line is a model fit through the data (Gaussian model parameters are printed on the bottom right of the panel).
The red points are the binned experimental variogram (based on surface sediment 2,3,7,8-TCDD data collected from 2005 to 2013).
Data are log-transformed prior to variogram generation to normalize the data distribution.
Each point is labeled with the number of pairs in the bin.
The blue dashed line is the population variance.

Key:
max lag = maximum lag length used in variogram
min dist = minimum separation between pairs
bin size = size of bins
nbins = number of bins shown on variogram
partial sill = sill - nugget

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Figure 5-12
Along-flow Variogram for Surface Sediment 2,3,7,8-TCDD in the RM 10.9 Silt Deposit
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

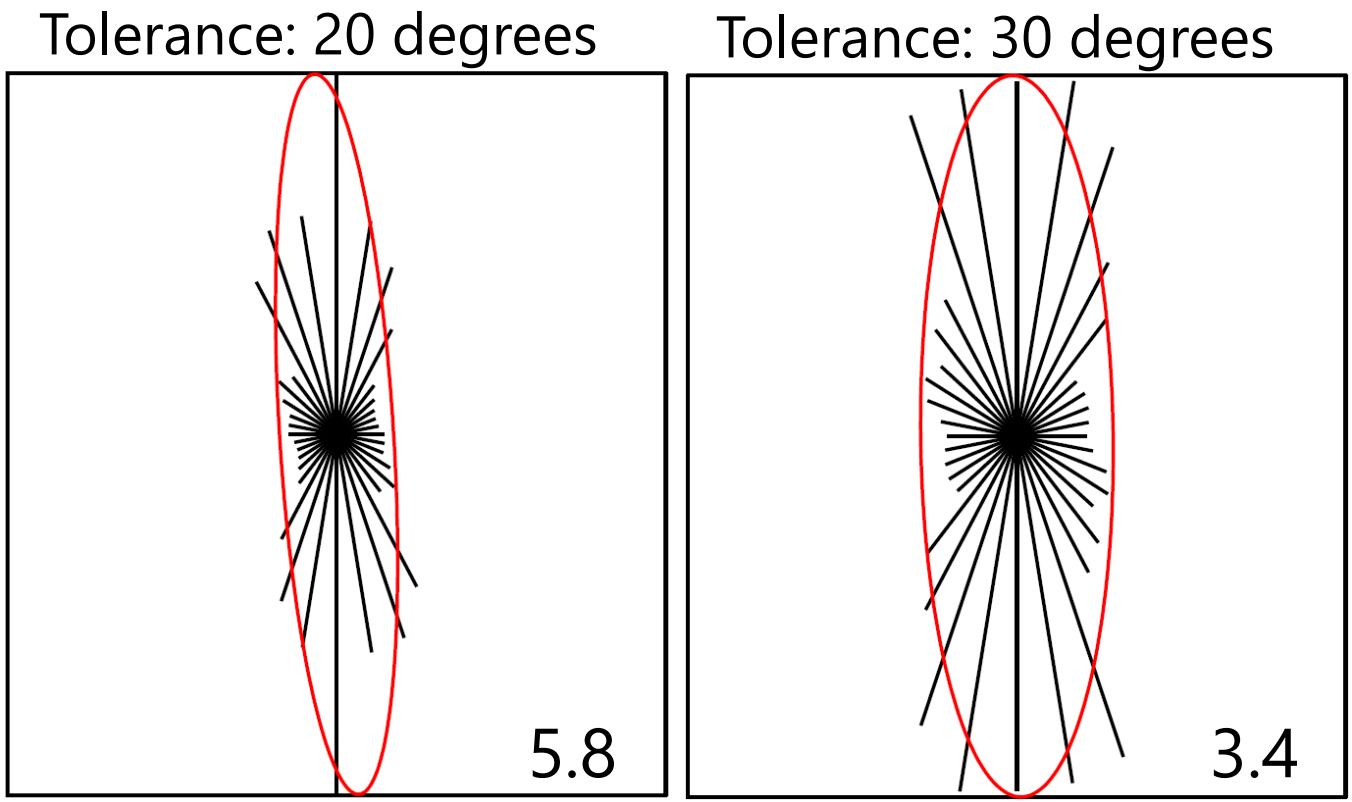


Notes:
The black line is a model fit through the data (Gaussian model parameters are printed on the bottom right of the panel).
The red points are the binned experimental variogram (based on surface sediment 2,3,7,8-TCDD data collected from 2005 to 2013).
Data are log-transformed prior to variogram generation to normalize the data distribution.
Each point is labeled with the number of pairs in the bin.
The blue dashed line is the population variance.

Key:
max lag = maximum lag length used in variogram
min dist = minimum separation between pairs
bin size = size of bins
nbins = number of bins shown on variogram
partial sill = sill - nugget

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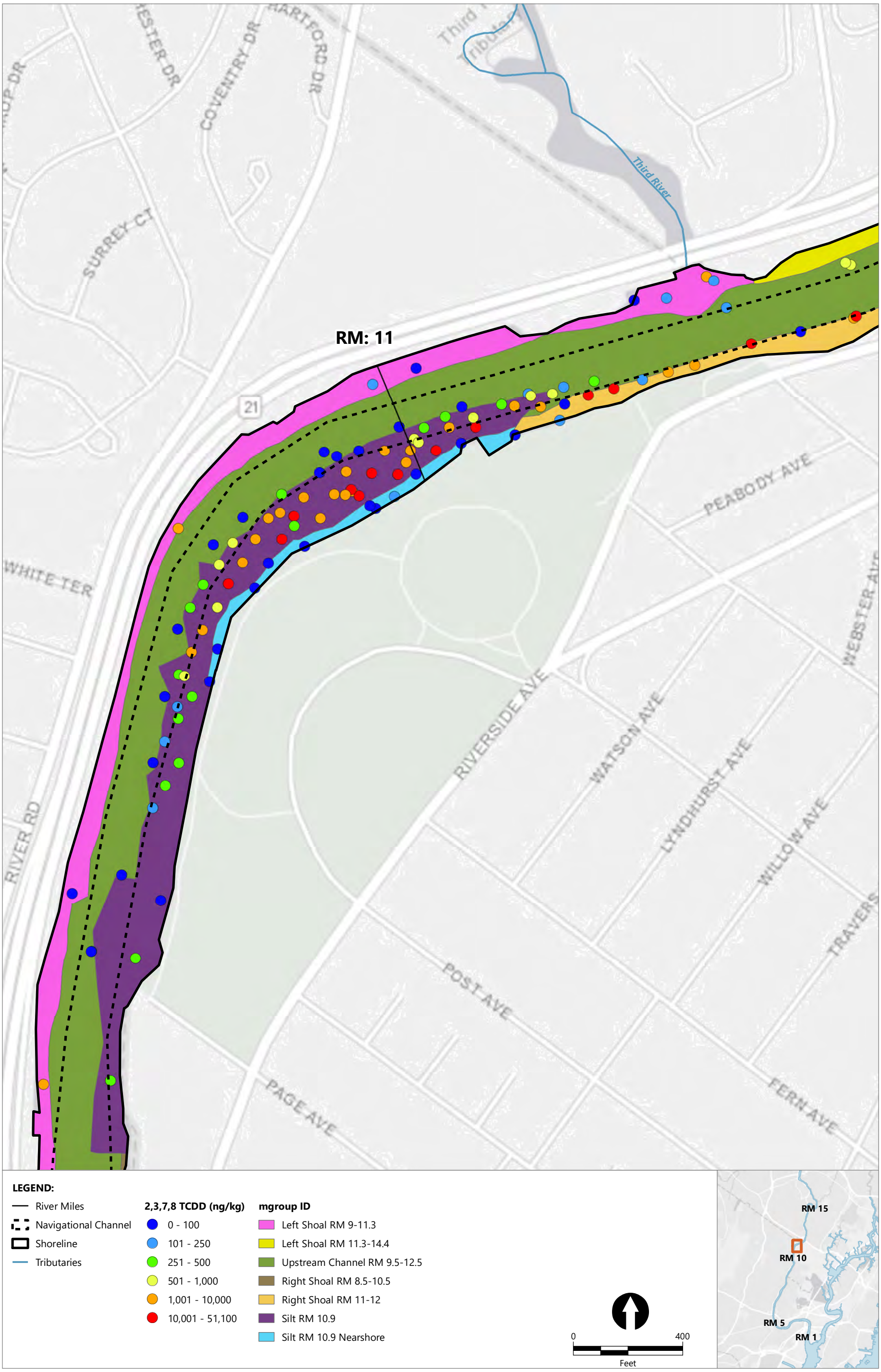
Figure 5-13
Along-flow Variogram for Surface Sediment Tetra-CB in the RM 10.9 Silt Deposit



Anisotropy ratio is labeled on the lower right corner of each panel.

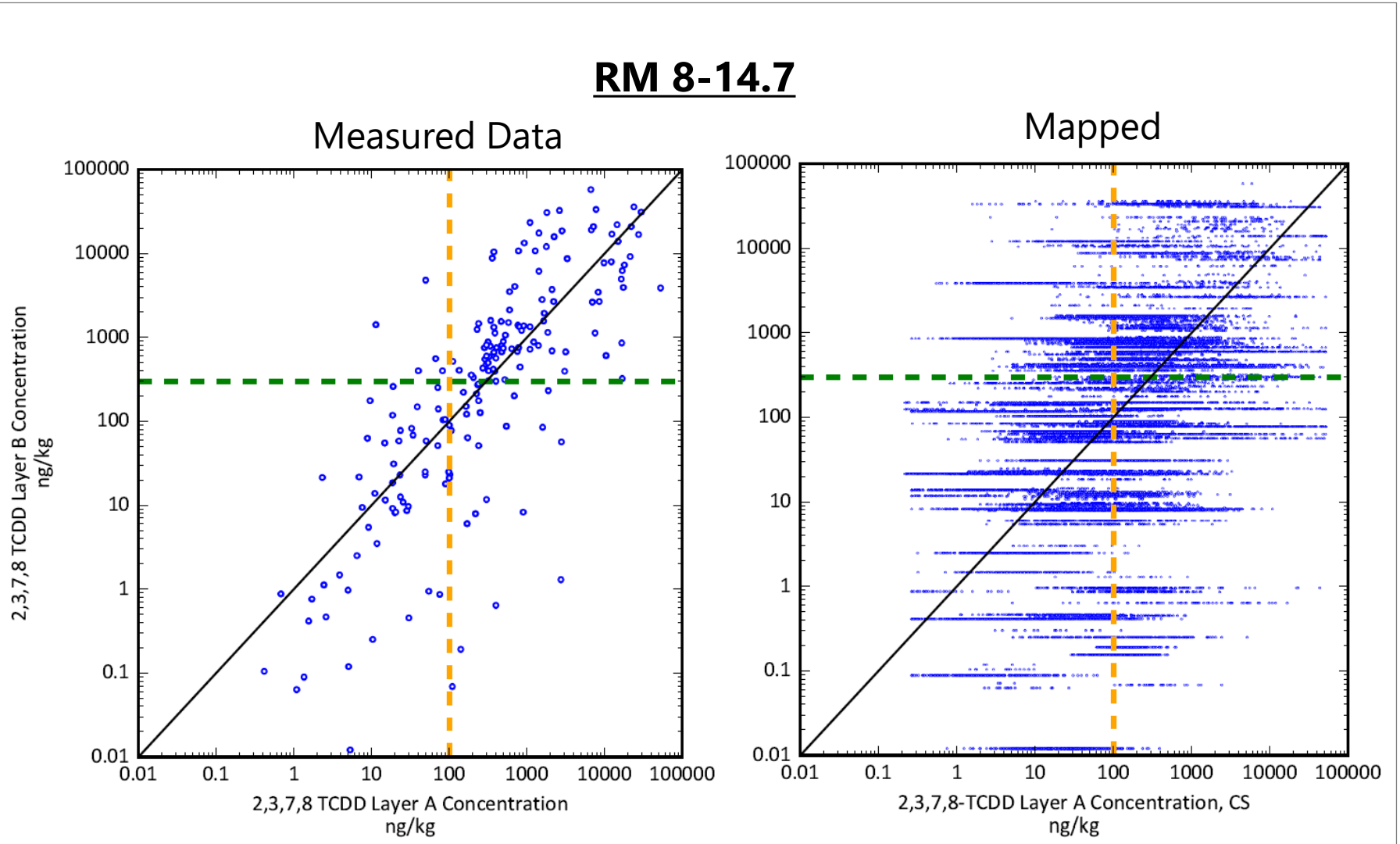
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Figure 5-14
Anisotropy Ratio – Rose Diagrams Based on Surface Sediment 2,3,7,8-TCDD Between RM 10.4 – 11.5



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Figure 5-15
Surface Sediment 2,3,7,8-TCDD Data Used in Rose Diagram
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2010 mapping is based on the conditional simulation for Layer A and Thiessen polygons for layer B.

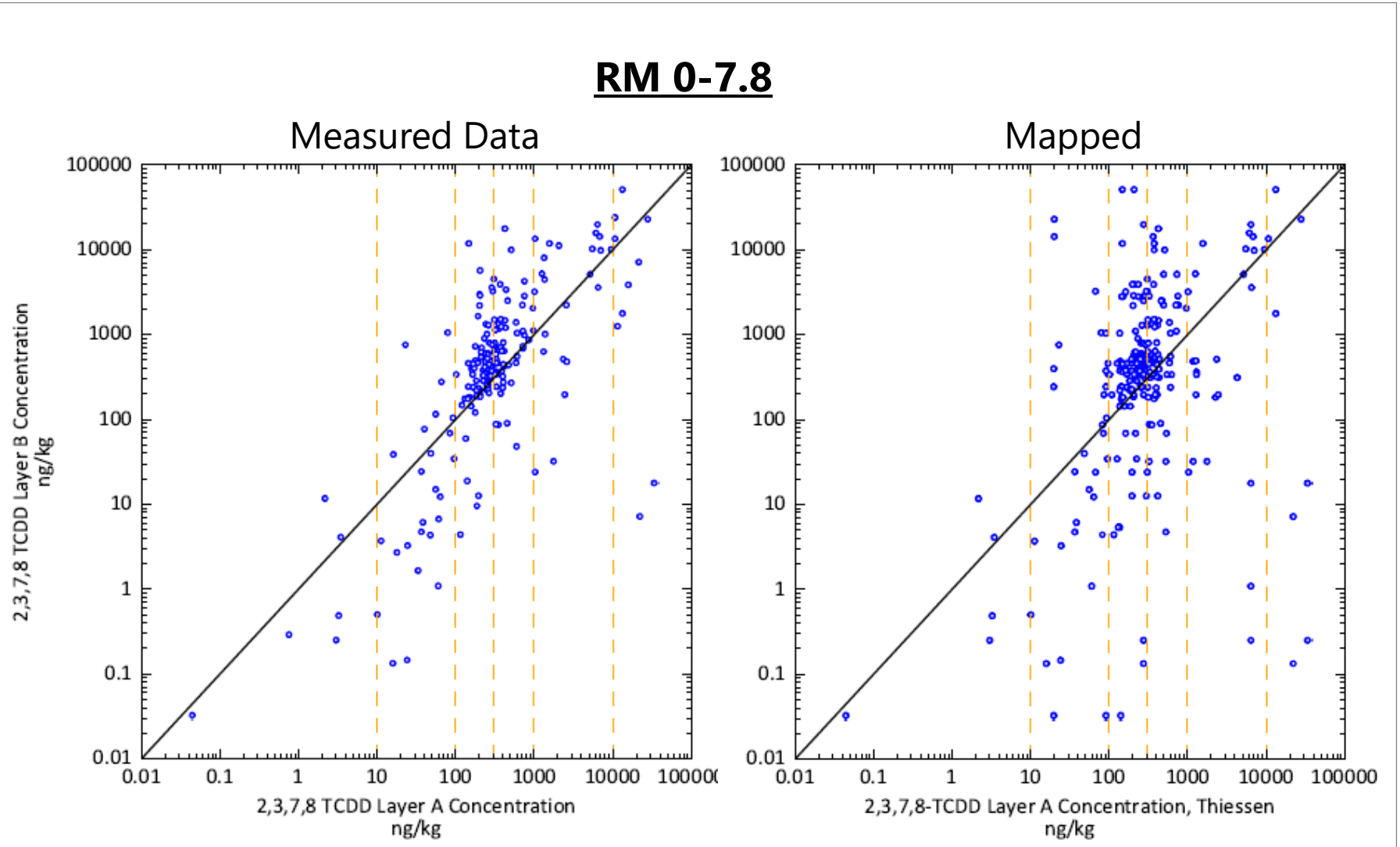
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Figure 6-1

Comparison of Layer A and Layer B 2,3,7,8-TCDD Concentrations for Measured and Mapped Data

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1995 mapping is based on the Thiessen polygons for layer A and layer B.

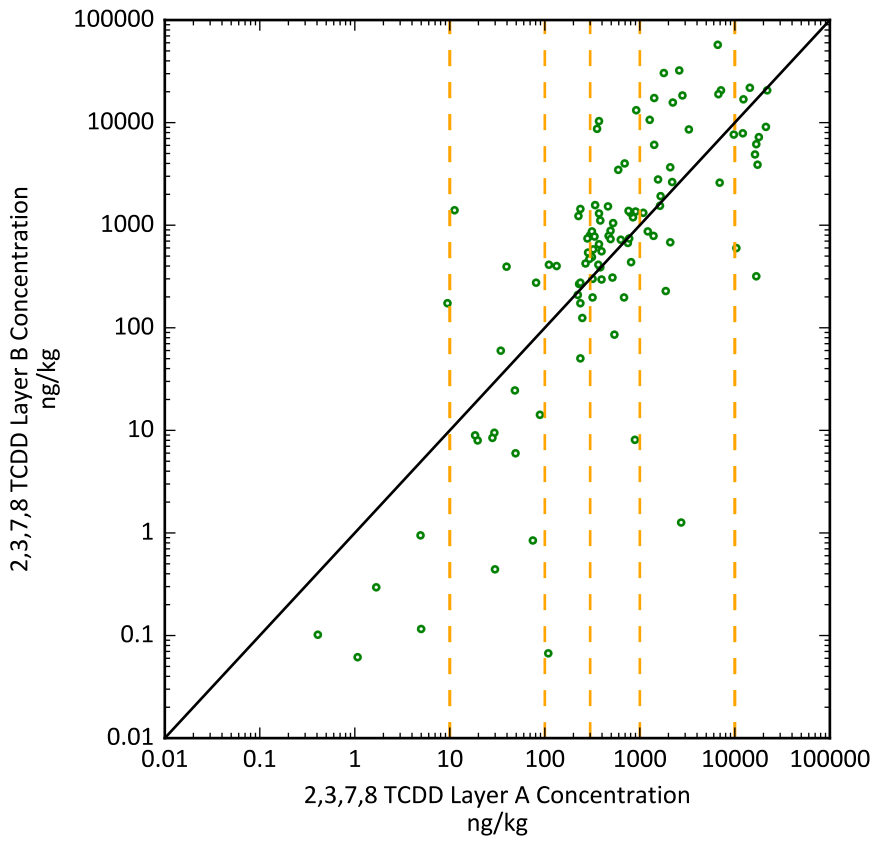
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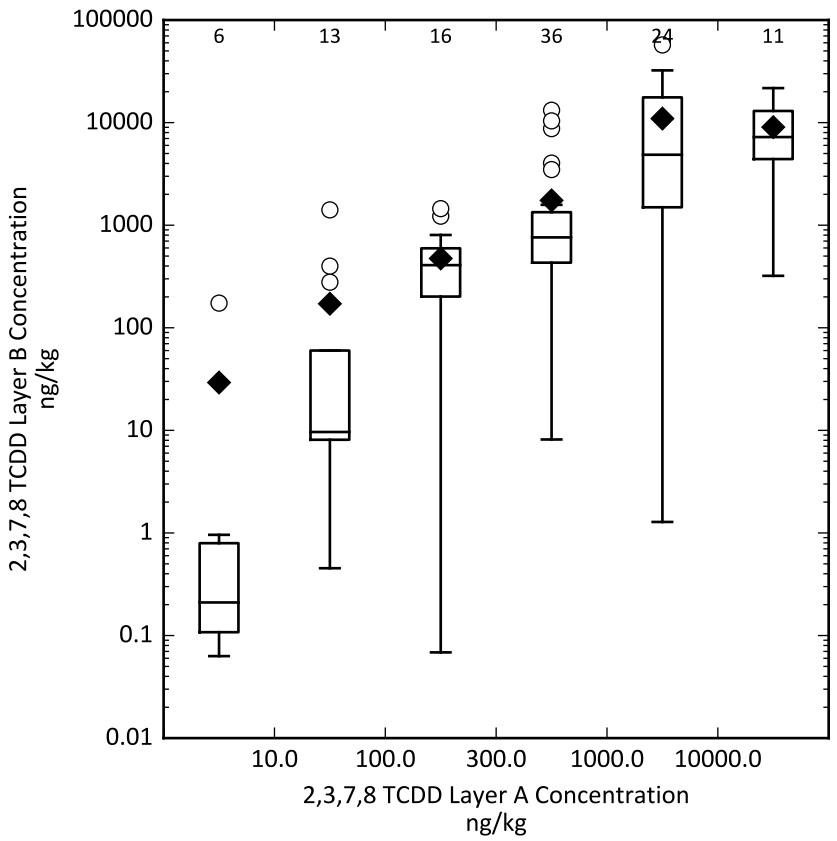
Figure 6-2

Comparison of Layer A and Layer B 2,3,7,8-TCDD Concentrations for Measured and Mapped Data

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Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
There are no Layer B concentrations with a value of zero.

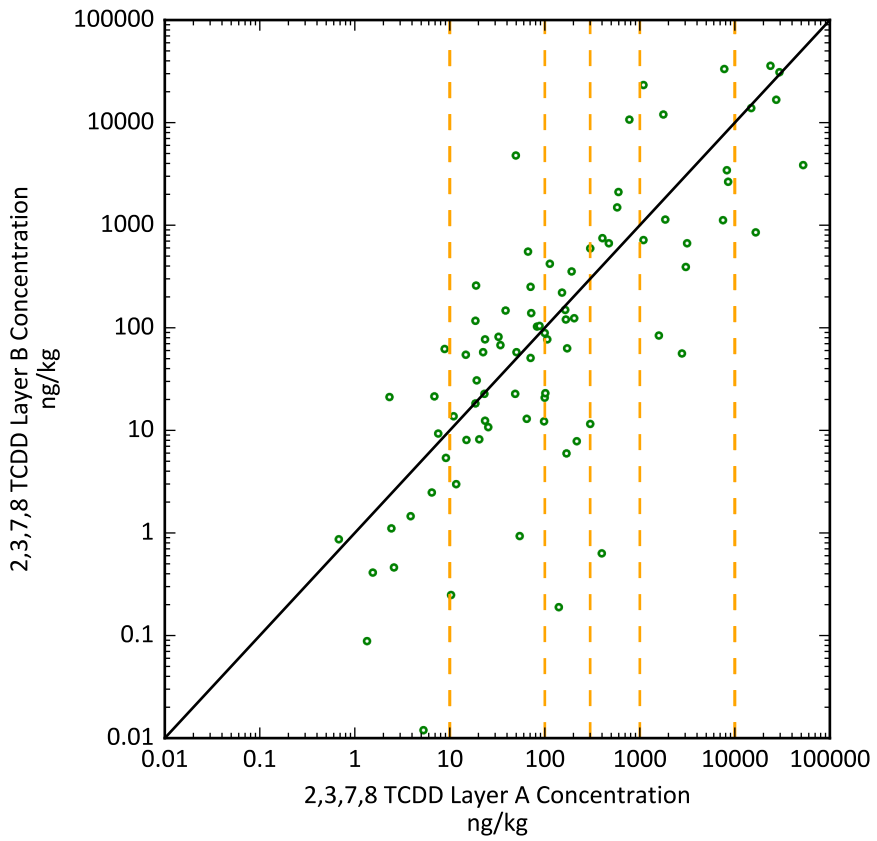
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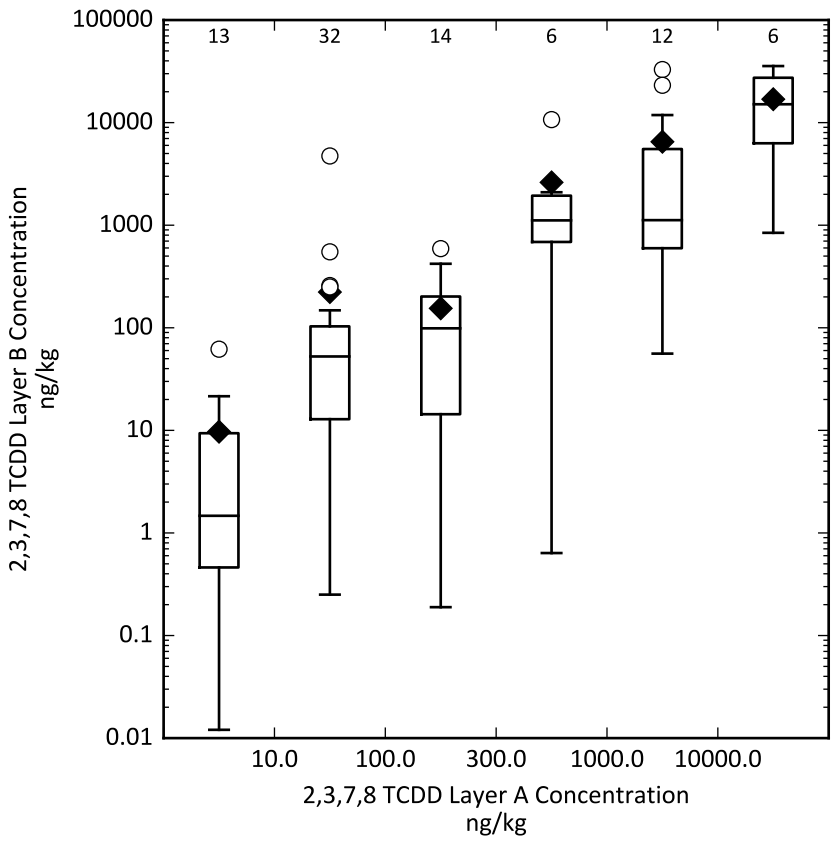
Figure 6-3a

2,3,7,8 TCDD: Relationship Between Layer A and Layer B Data Used as a Pool to Resample 2010 Layer B for Silt RM 7.8-14.7

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Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
6 Layer B concentrations with a value of zero are not shown.

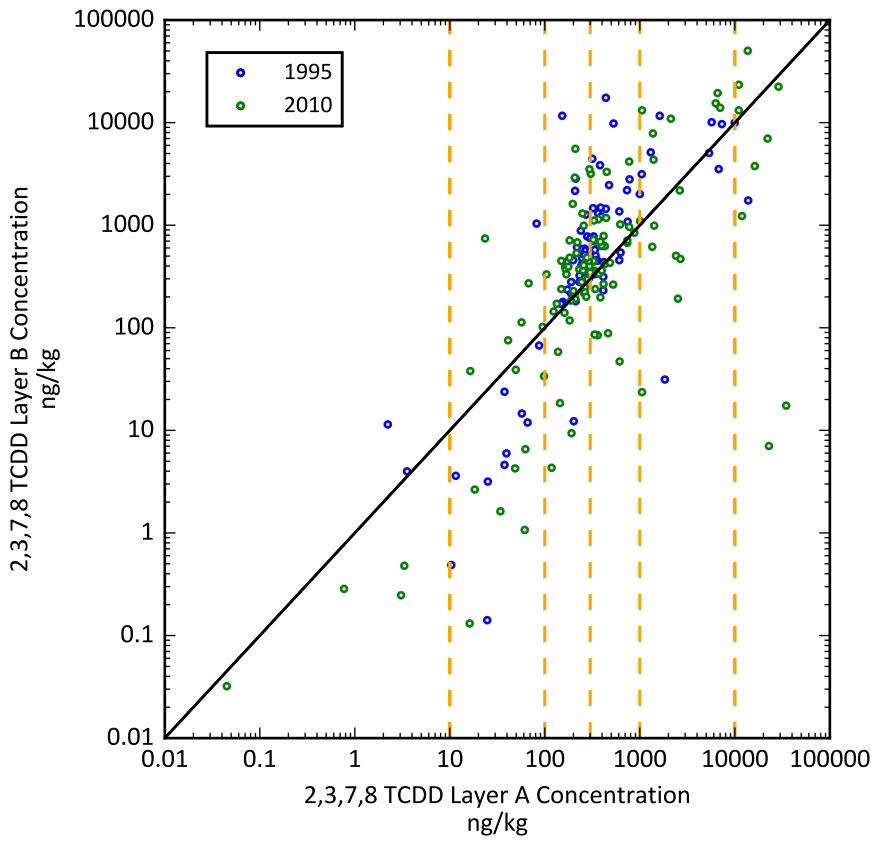
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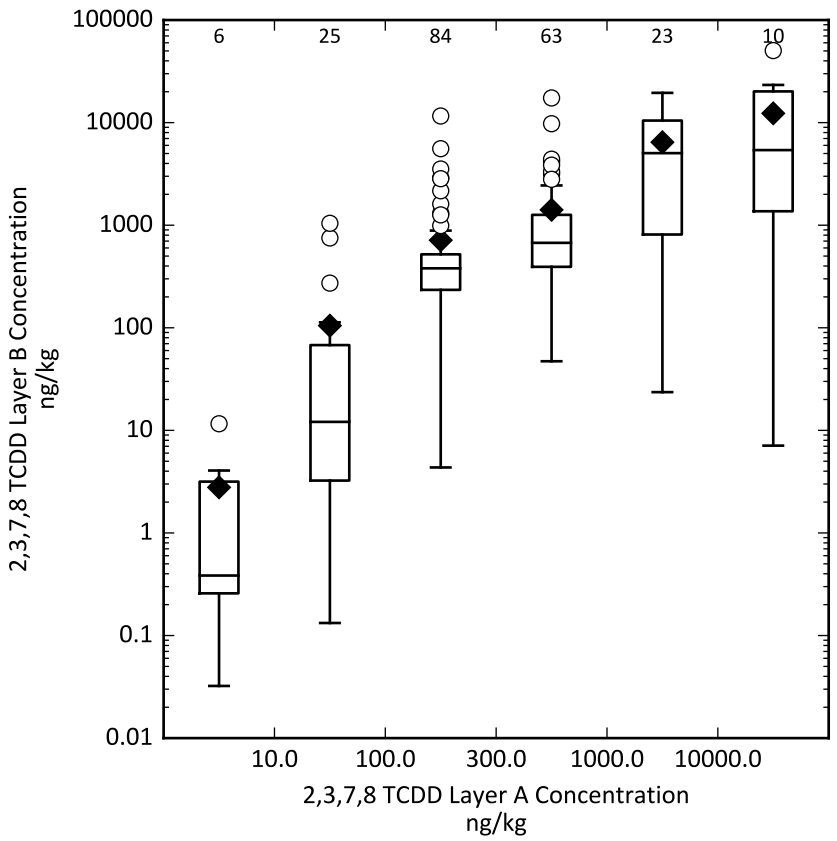
Figure 6-3b

2,3,7,8 TCDD: Relationship Between Layer A and Layer B Data Used as a Pool to Resample 2010 Layer B for Non-Silt RM 7.8-14.7

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Lower Passaic River Study Area Remedial Investigation\Feasibility Study





Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
1995 data is available only from RM 1-7. There are no Layer B concentrations with a value of zero.

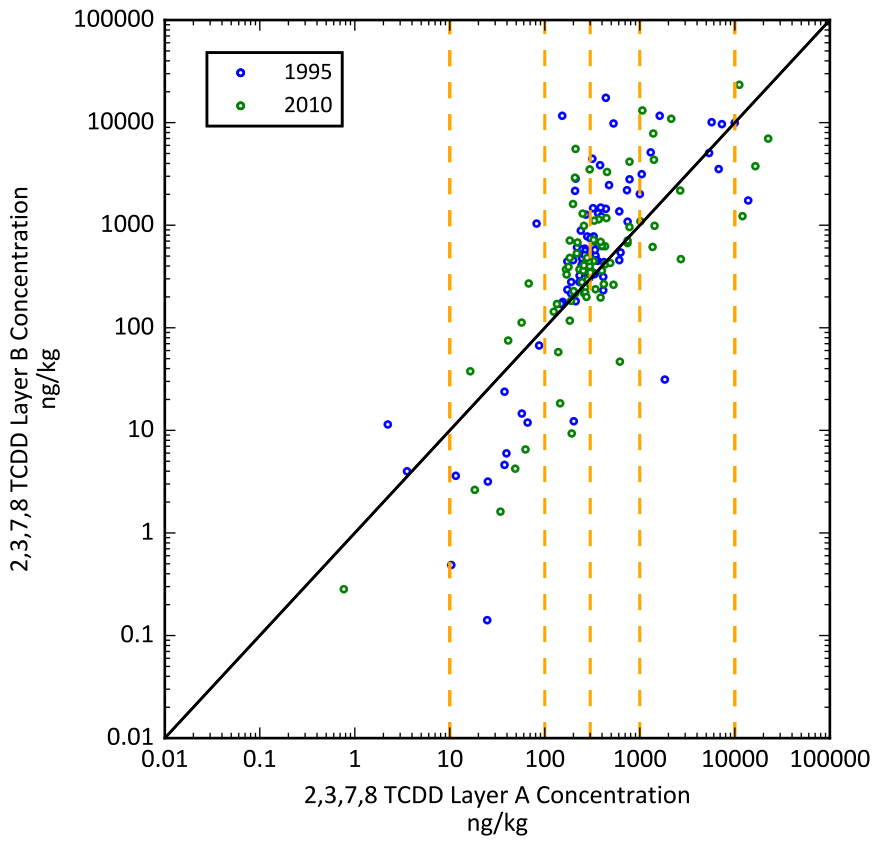
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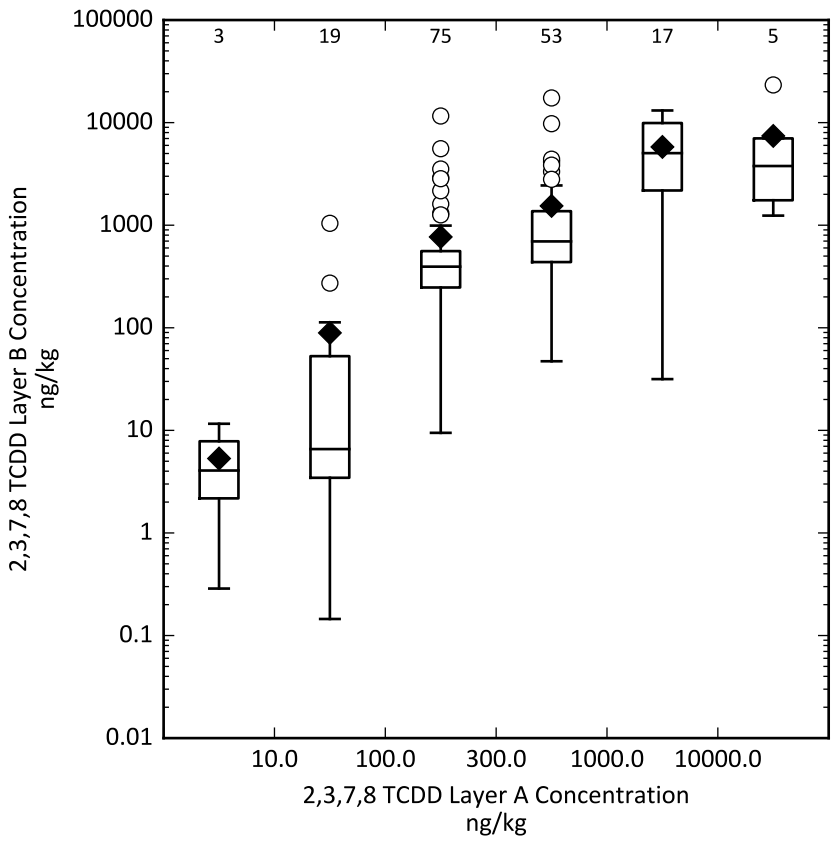
Figure 6-3c

2,3,7,8 TCDD: Relationship Between Layer A and Layer B Data Used as a Pool to Resample 2010 Layer B for RM 0-7.8

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Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
There are no Layer B concentrations with a value of zero.

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Figure 6-4

2,3,7,8 TCDD: Relationship Between Layer A and Layer B Data Used as a Pool to Resample 1995 Layer B for RM 1-7

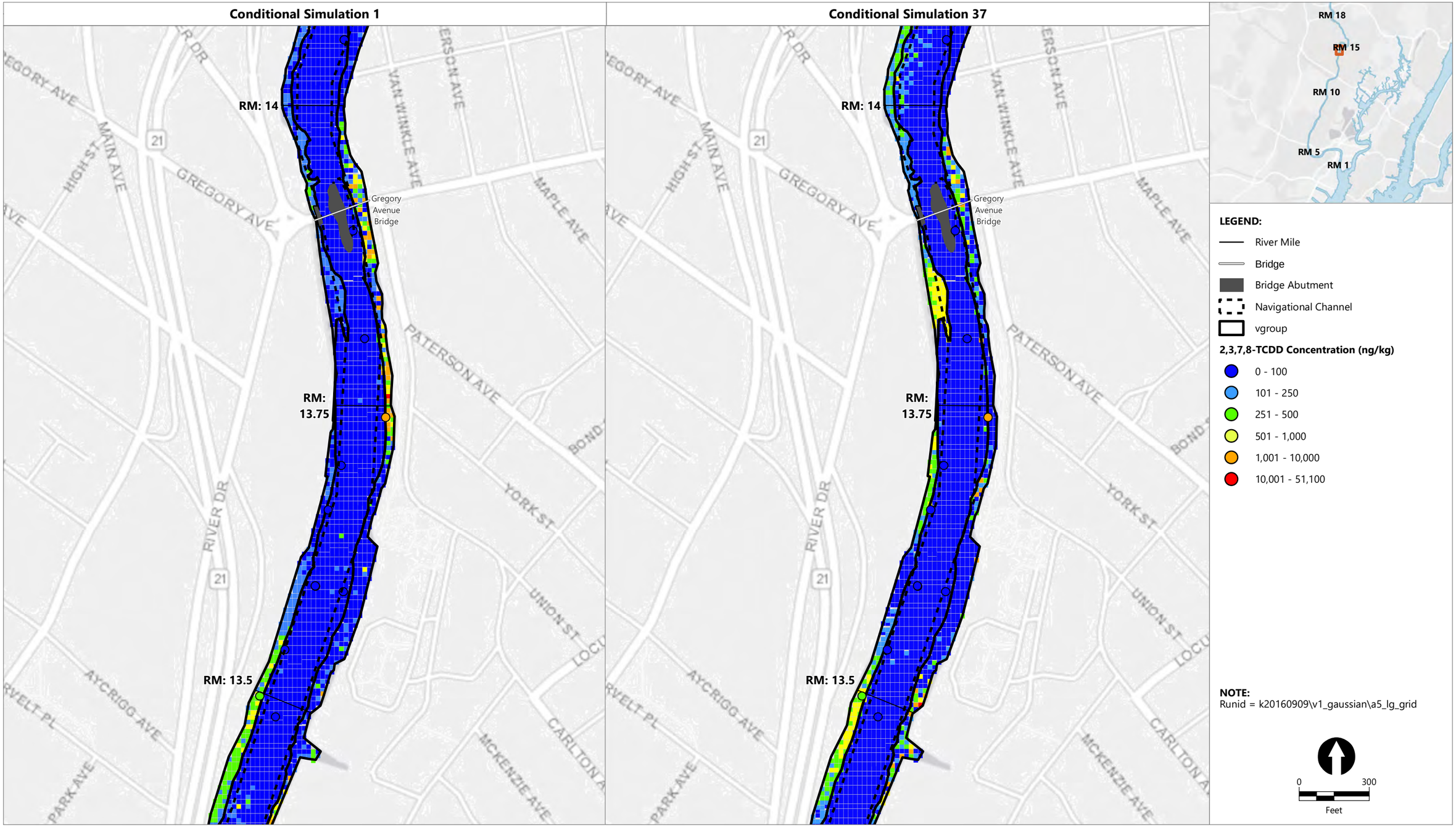
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Figure 7-1a
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



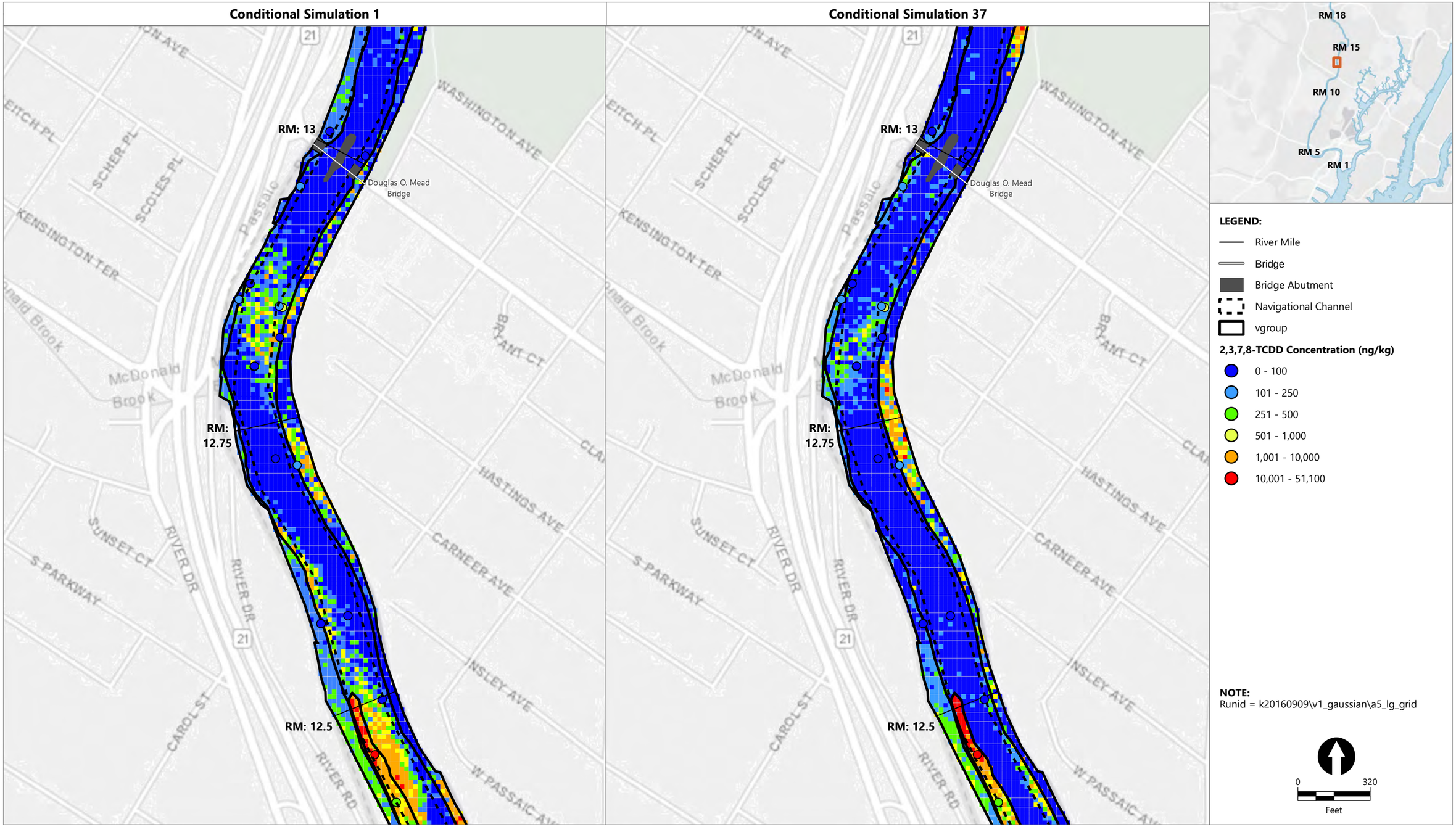
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Figure 7-1b
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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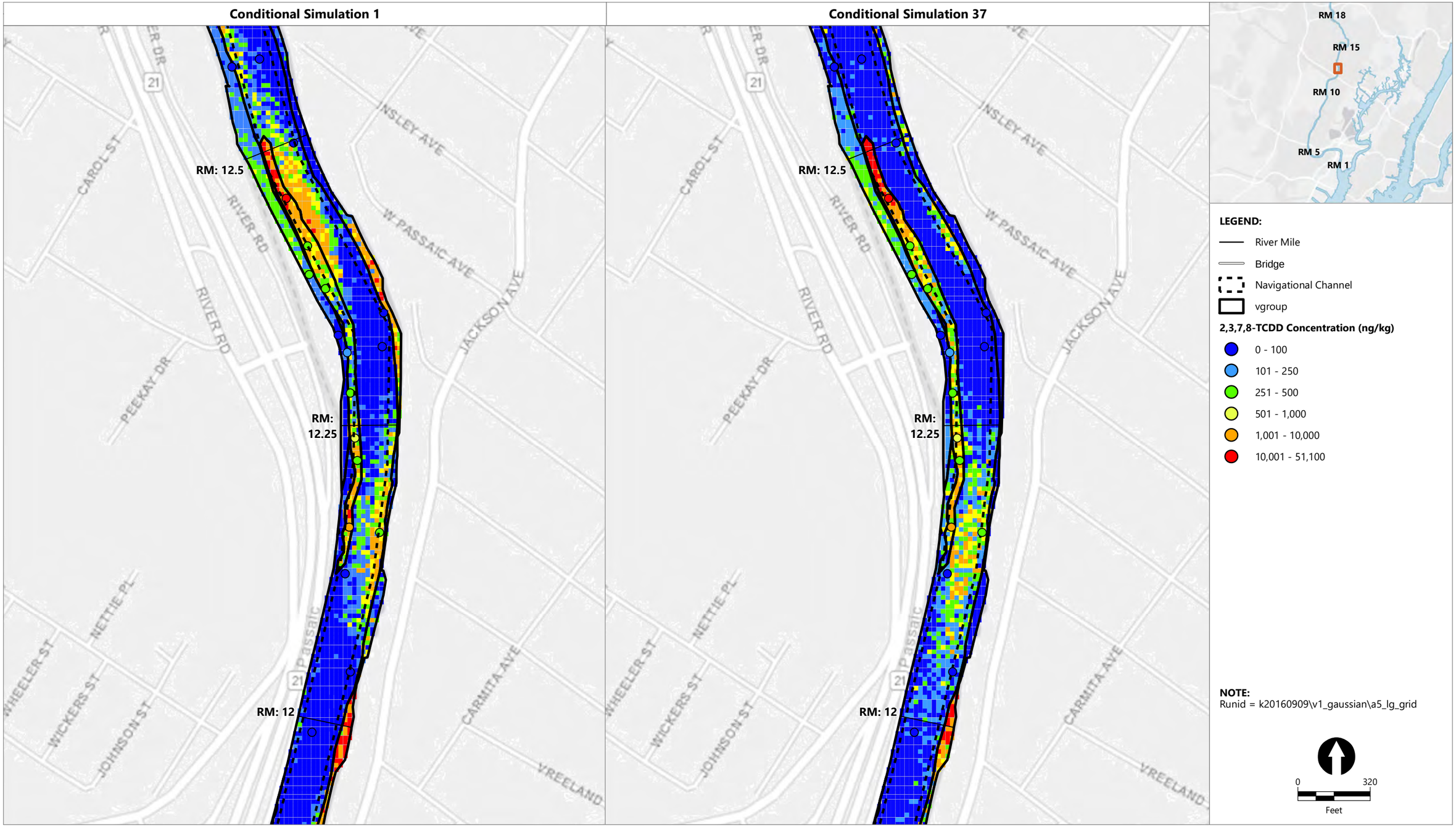
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Figure 7-1c
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



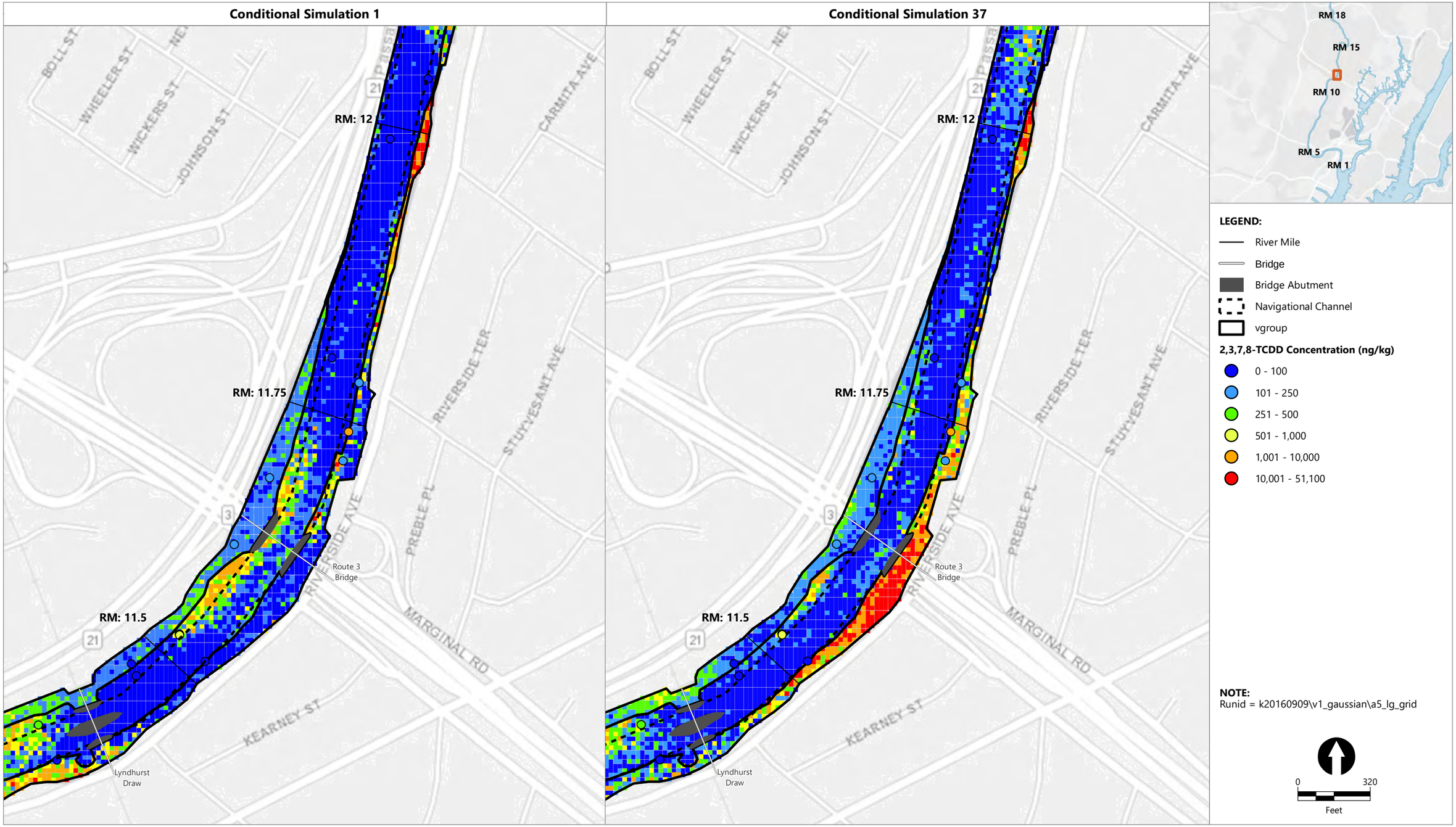
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Figure 7-1d
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



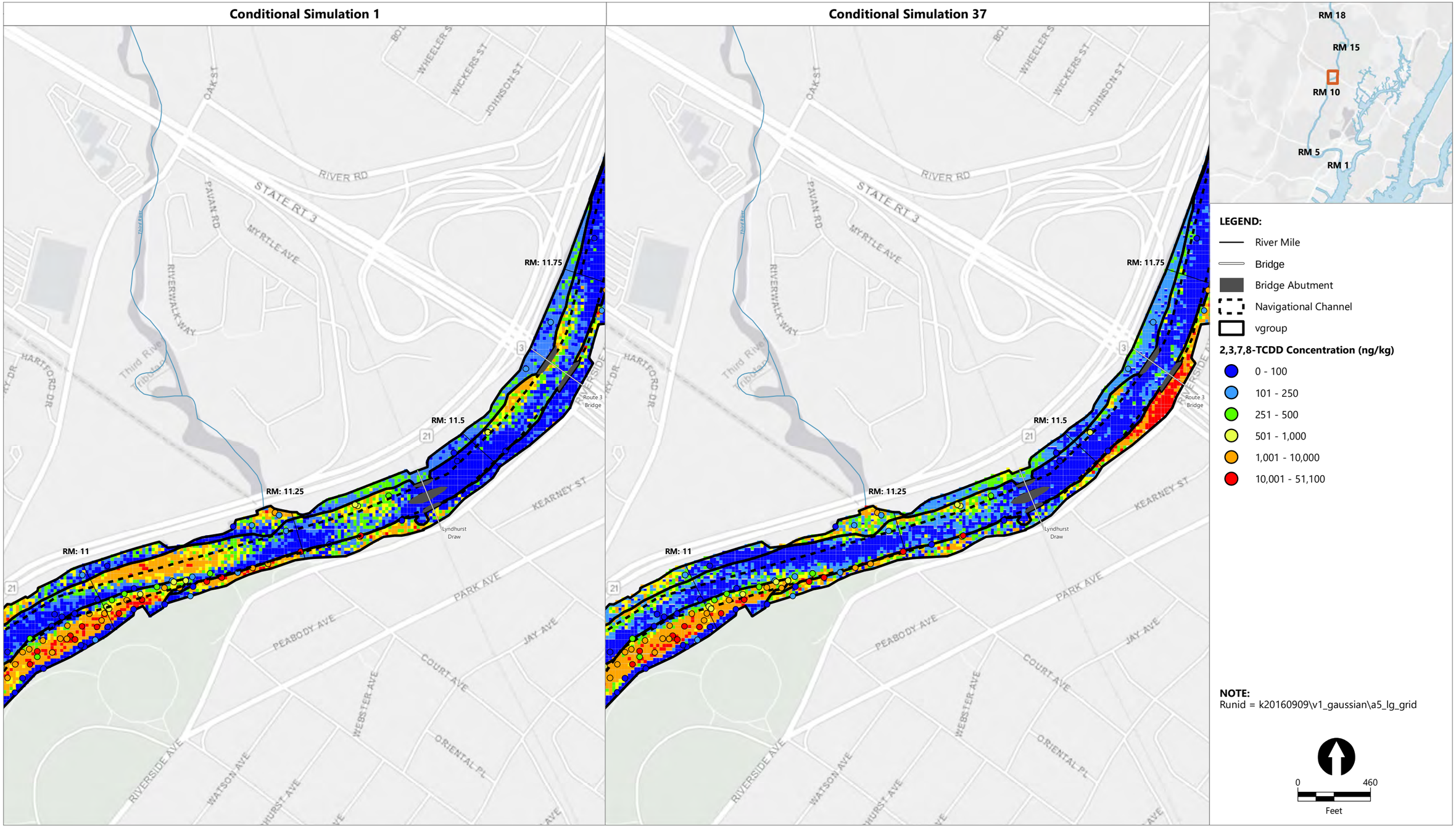
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Figure 7-1e
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



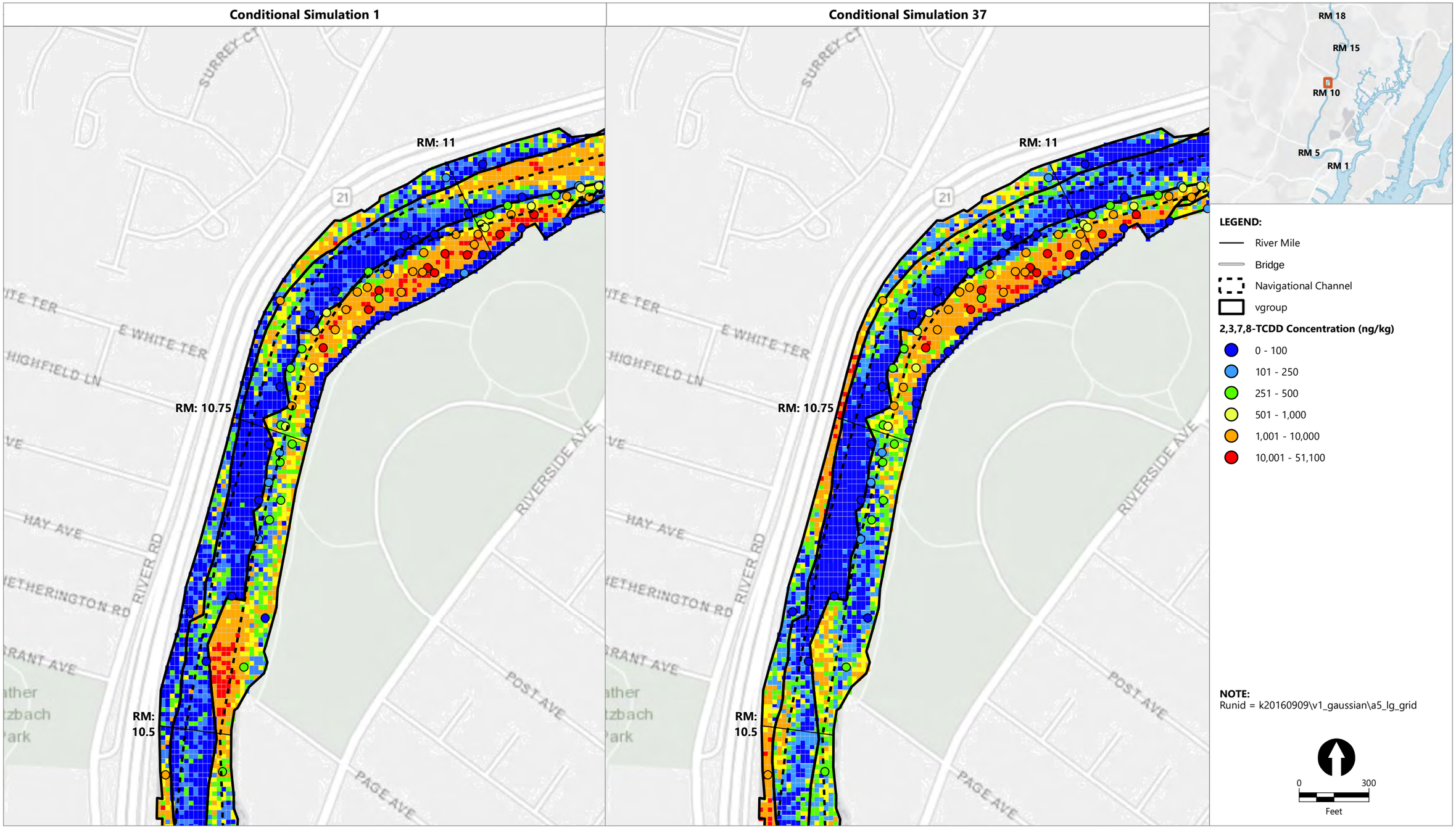
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Figure 7-1f
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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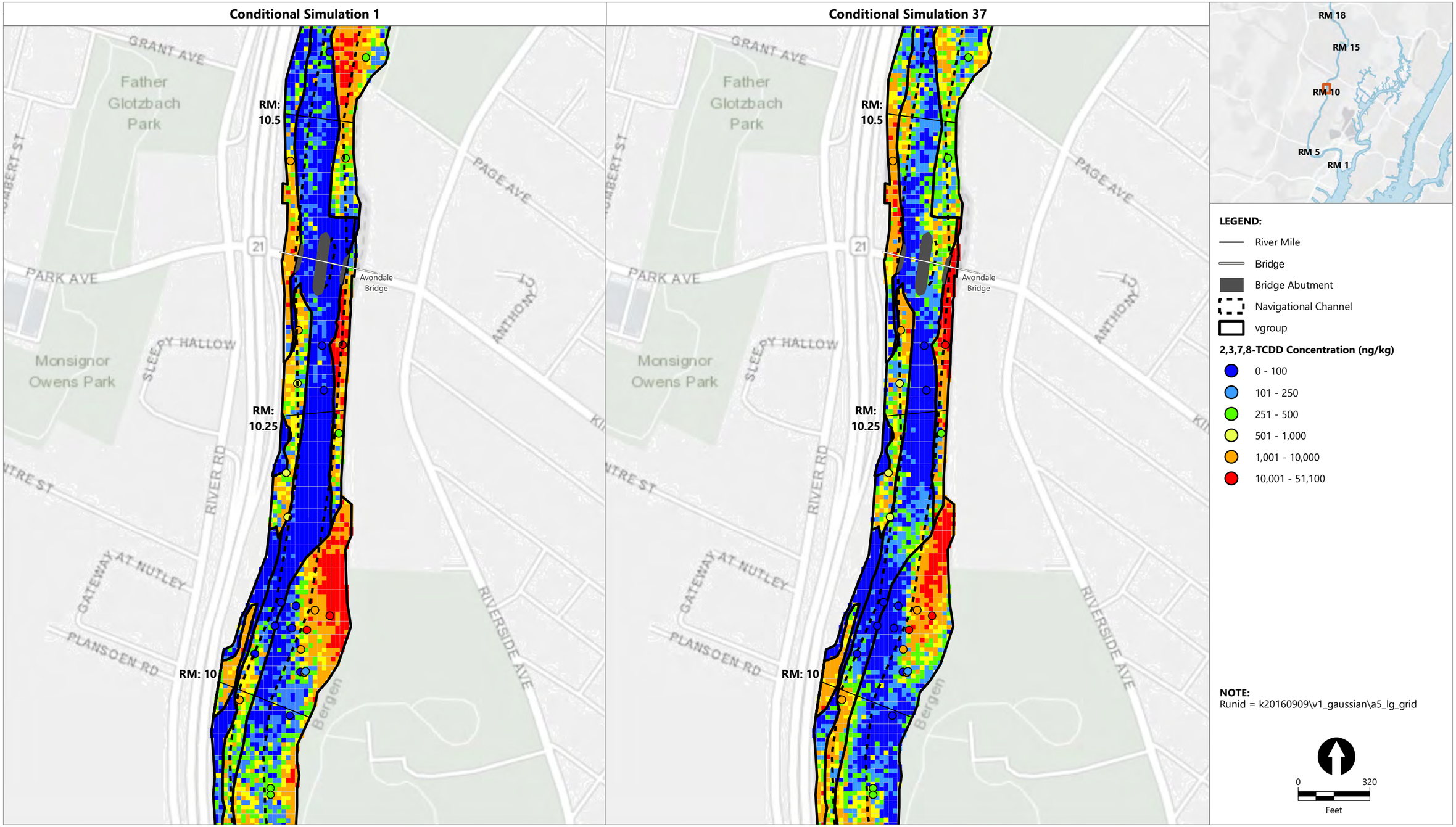
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Figure 7-1g
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



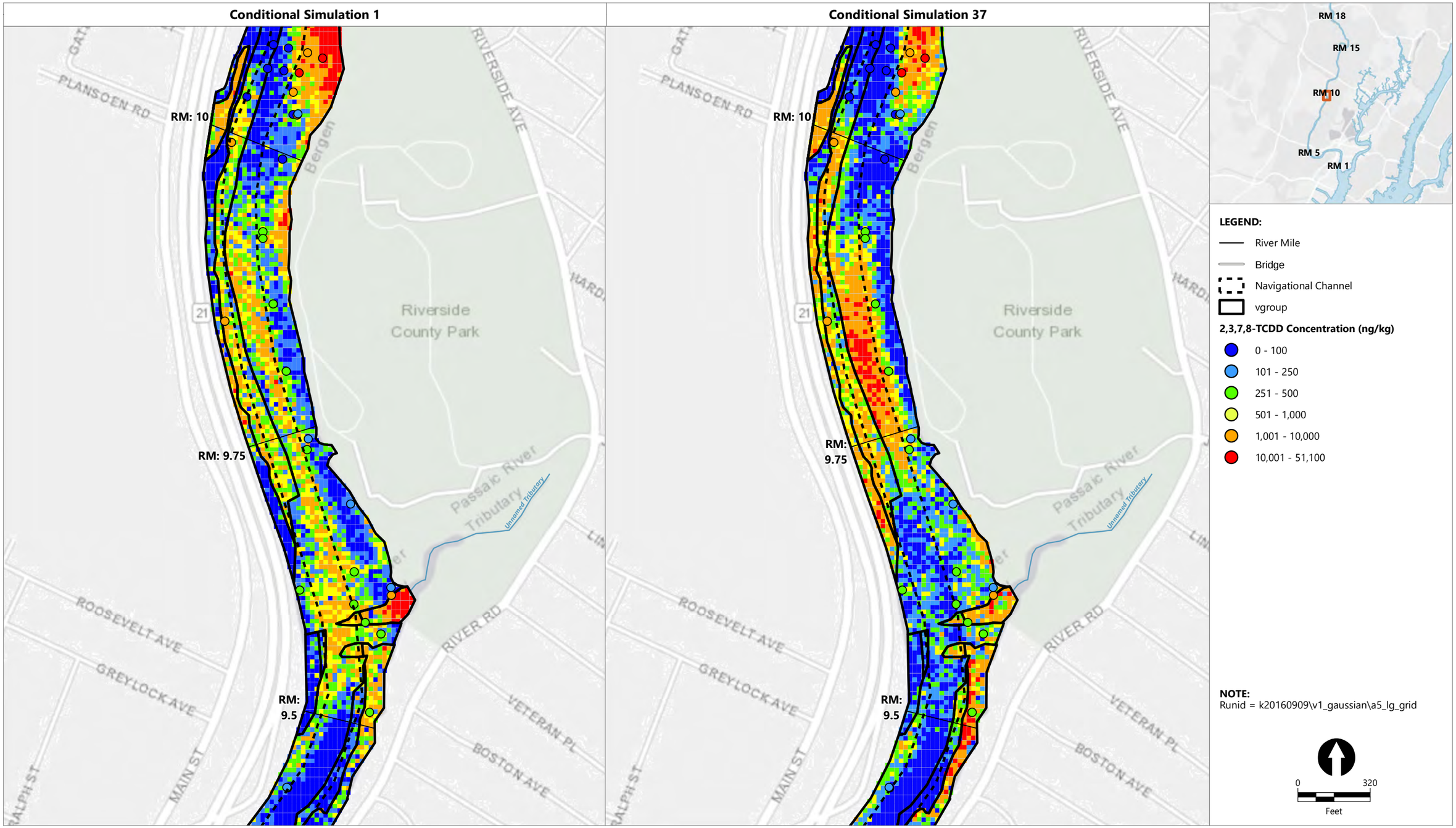
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Figure 7-1h
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
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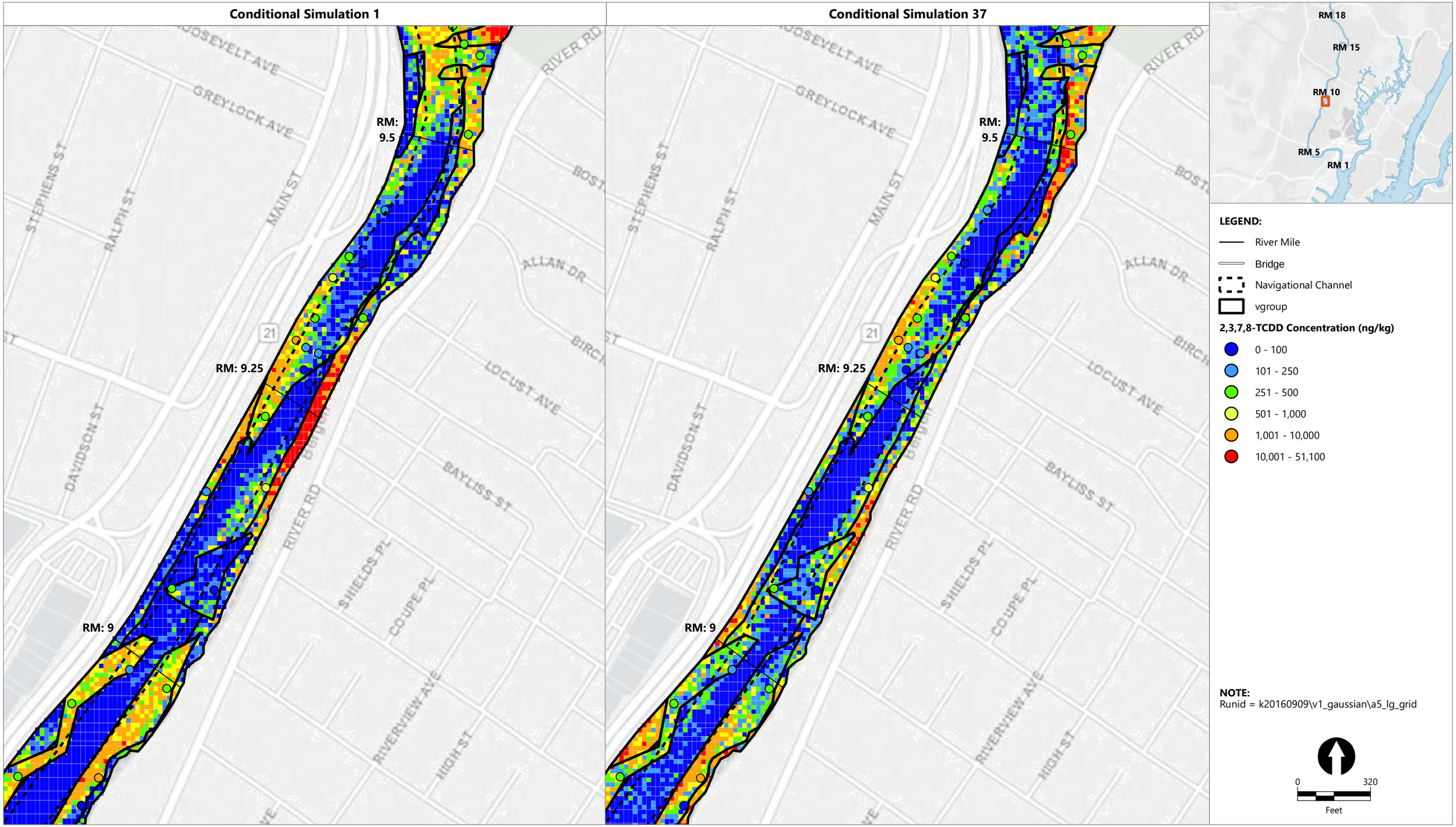
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Figure 7-1i
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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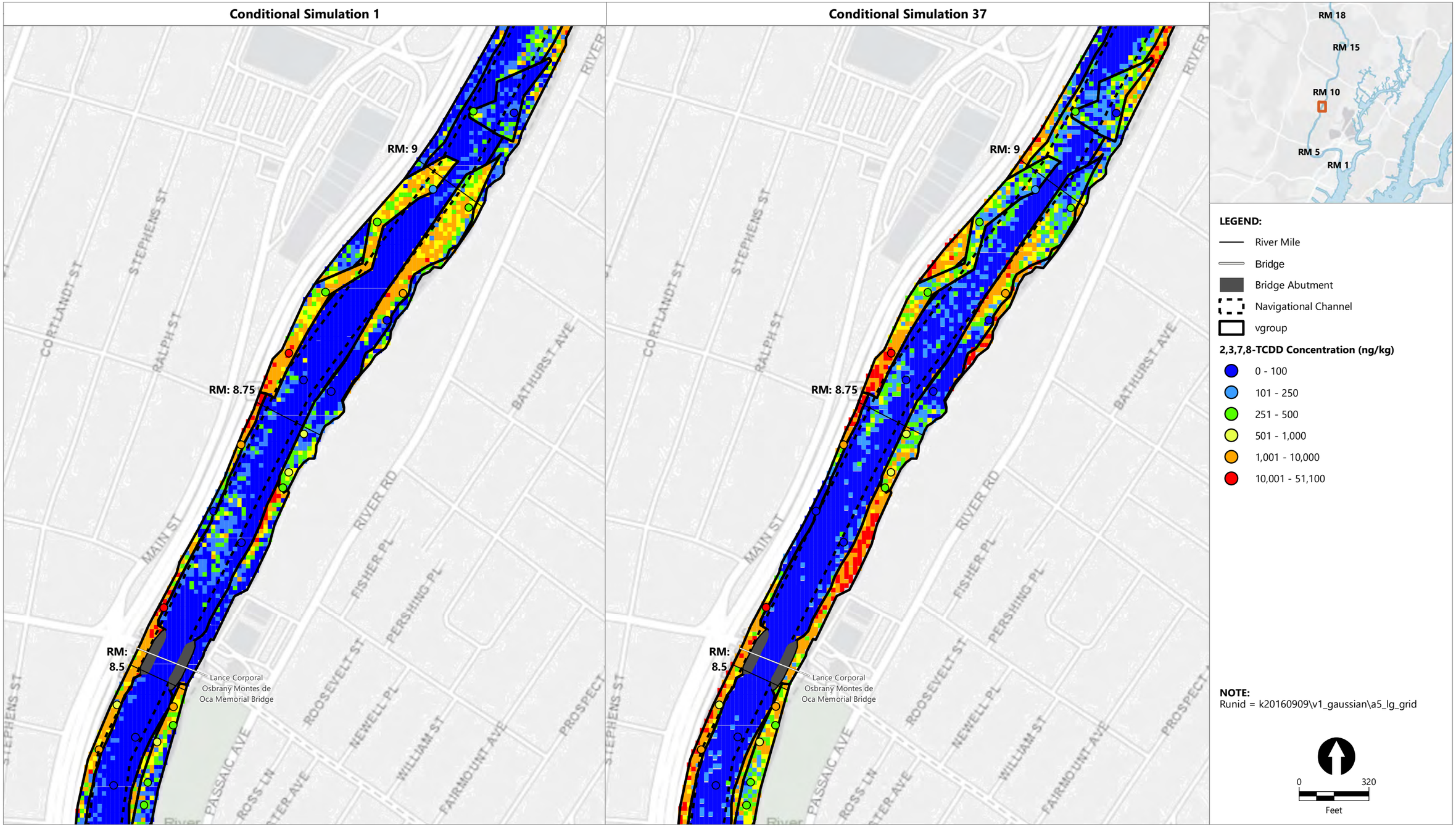
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Figure 7-1j
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
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Figure 7-1k
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



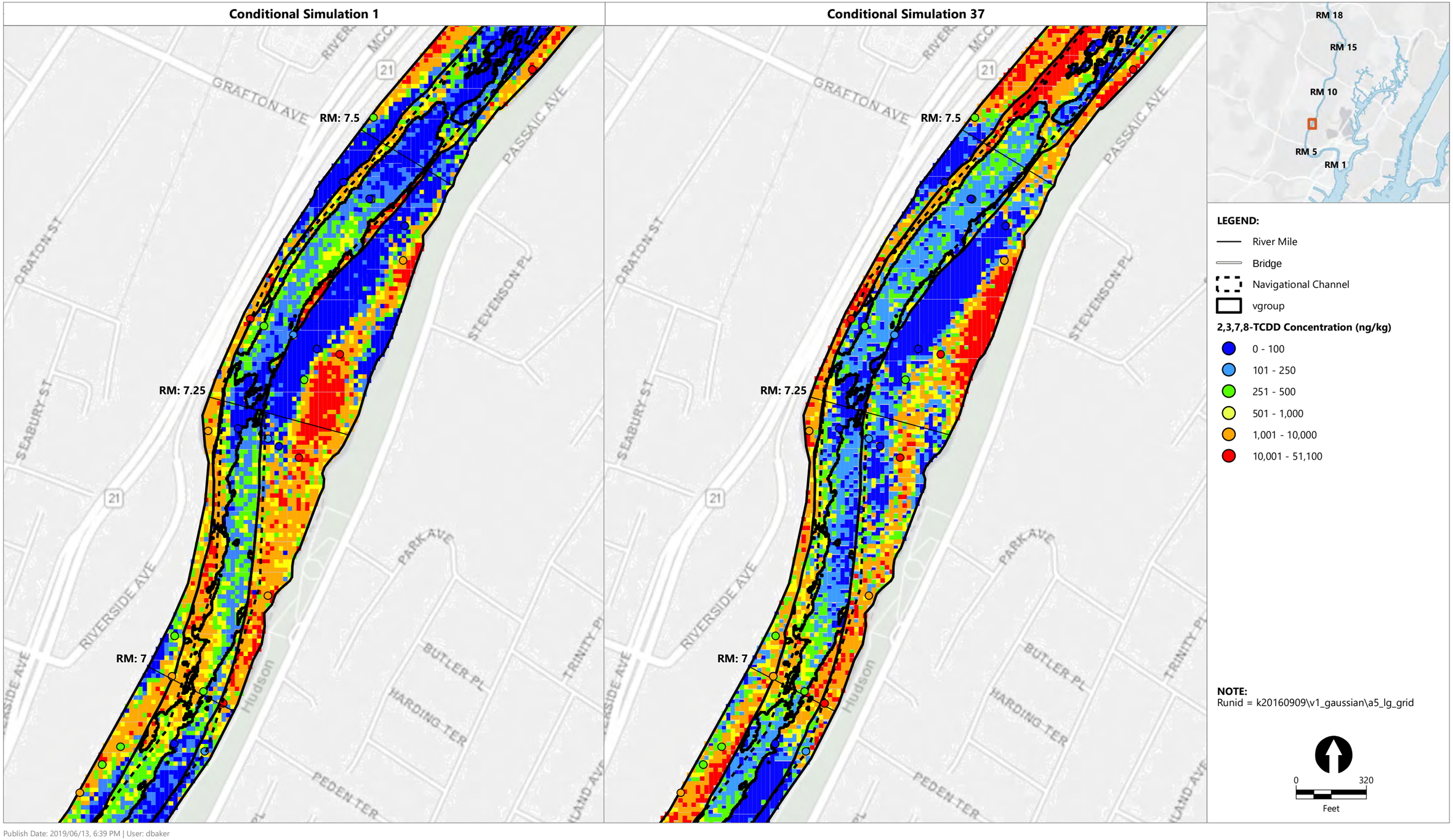
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Figure 7-1l
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
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Figure 7-1m
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

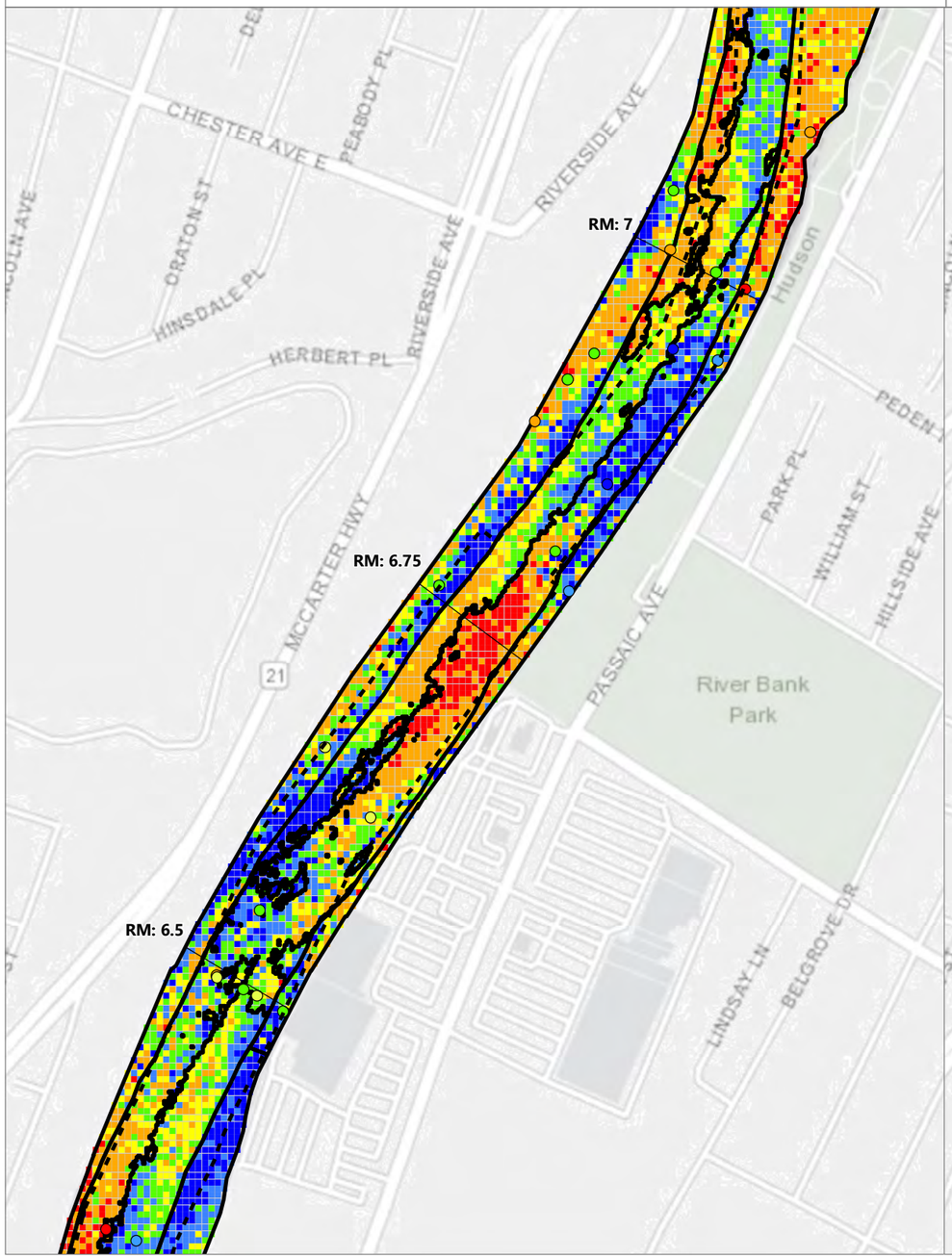


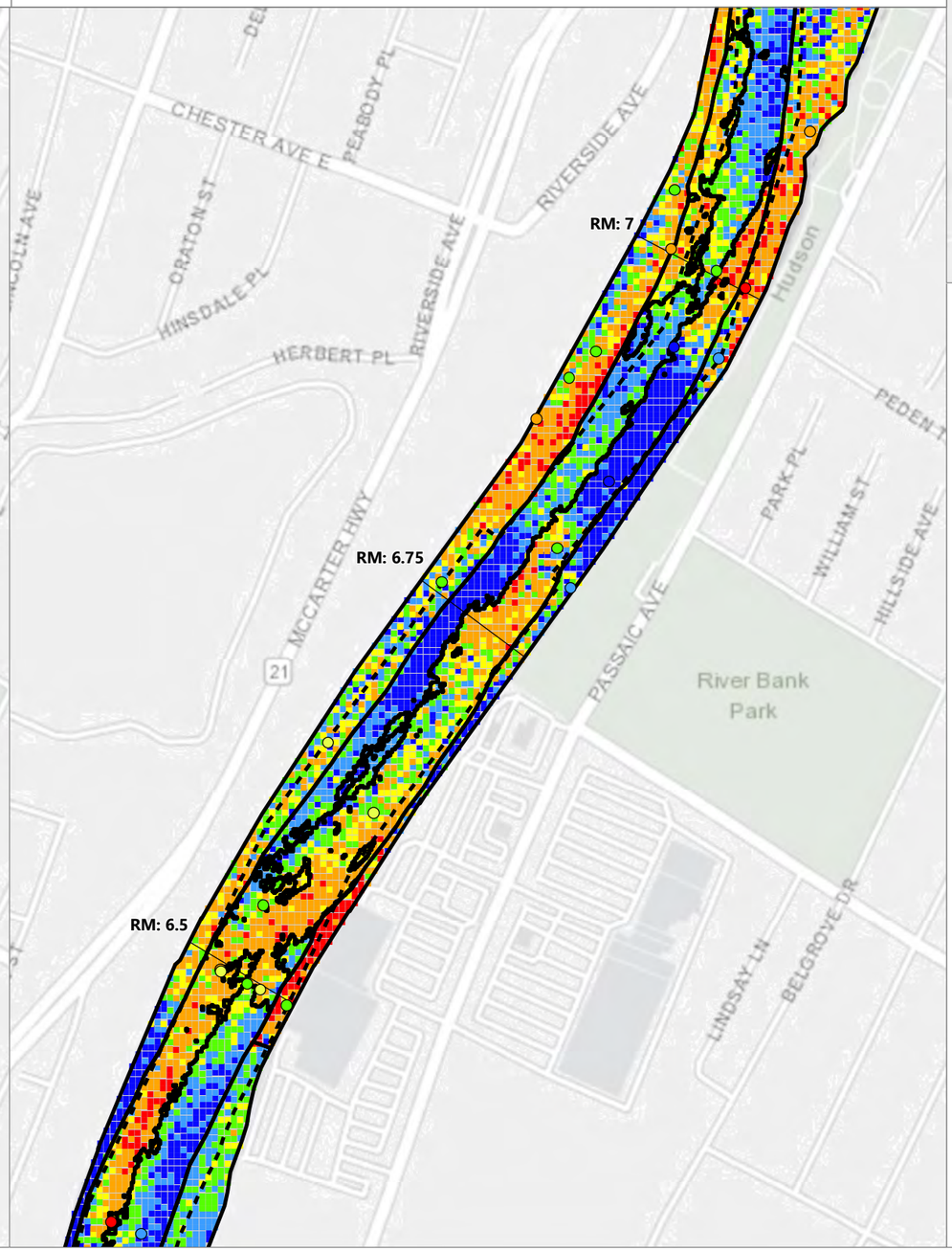
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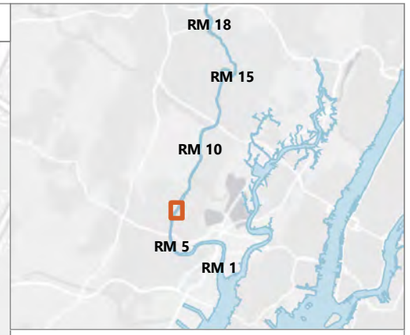
Figure 7-1n
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

Conditional Simulation 1

Conditional Simulation 37







LEGEND:

- River Mile
- Bridge
- Navigational Channel
- vgroup

2,3,7,8-TCDD Concentration (ng/kg)

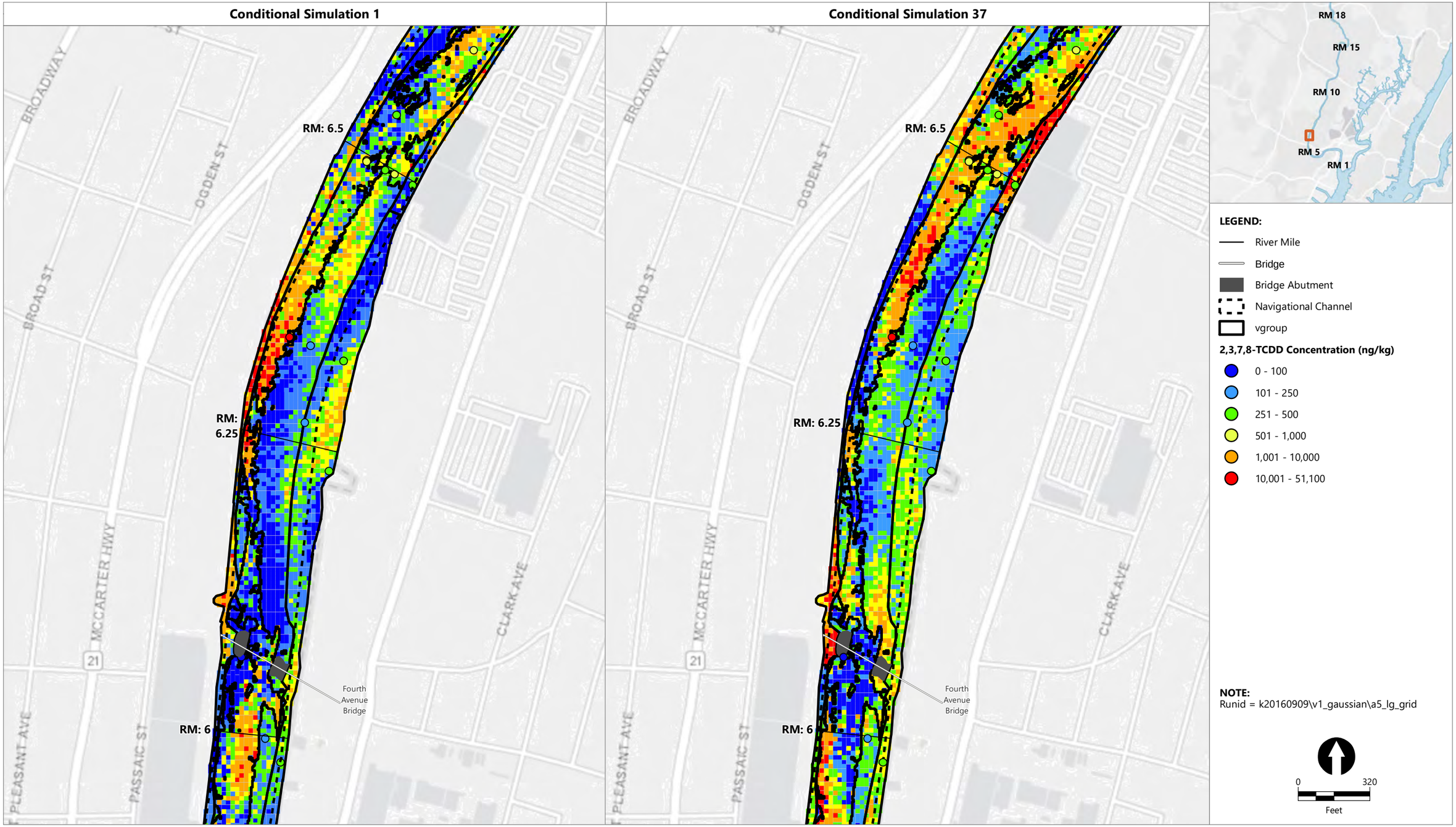
- 0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- 10,001 - 51,100

NOTE:
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0 350
Feet

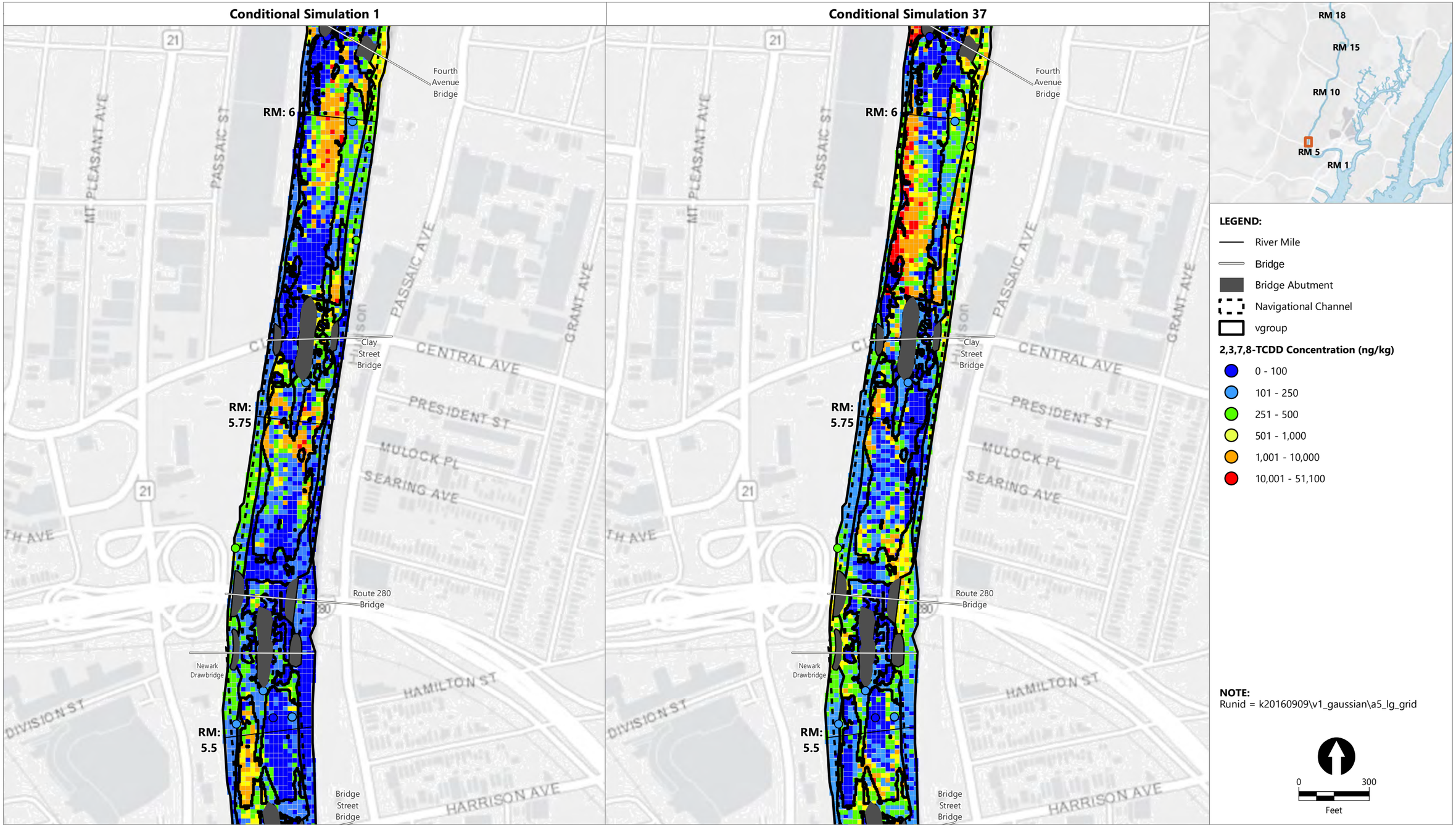
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Figure 7-1o
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



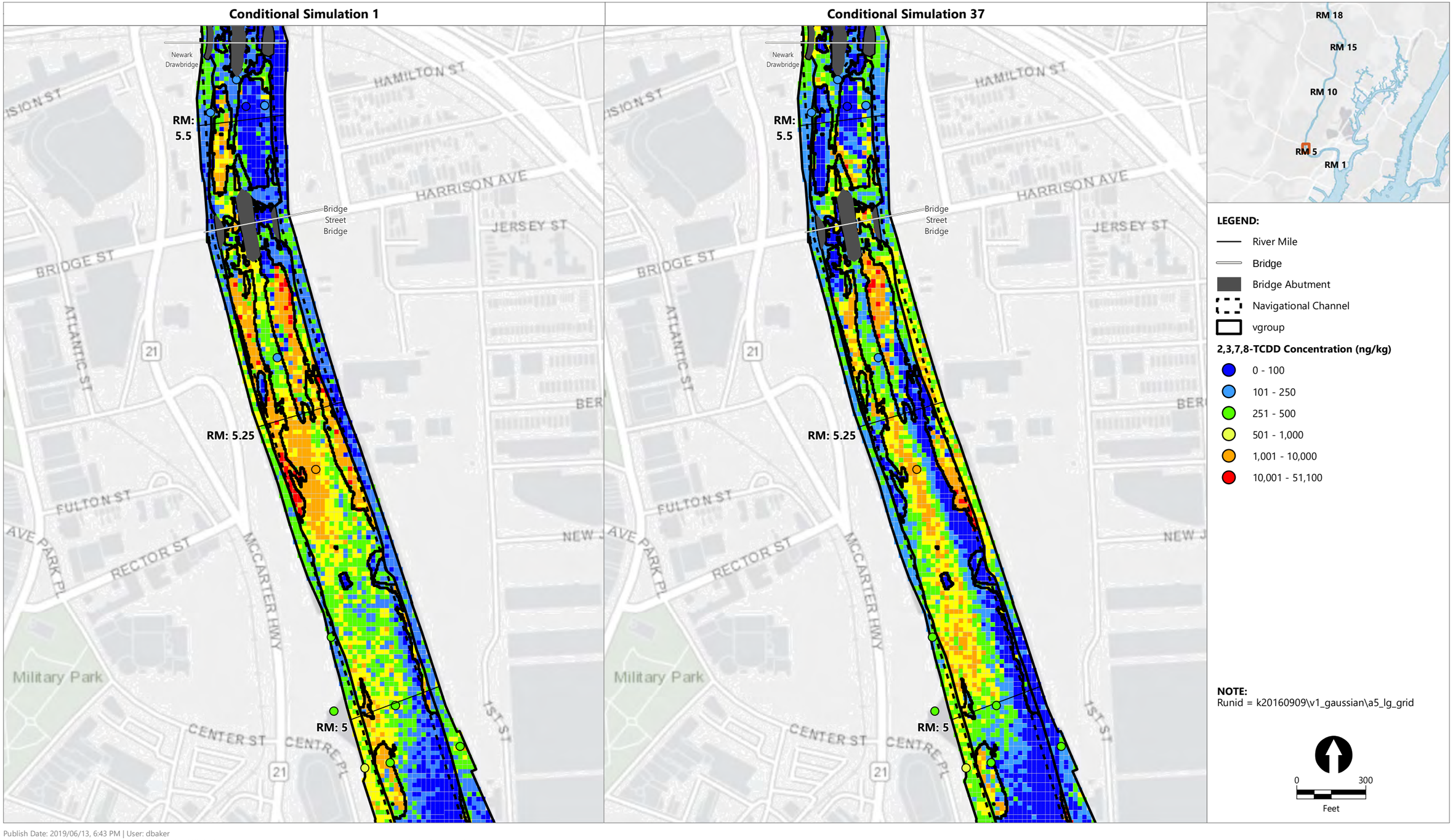
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Figure 7-1p
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



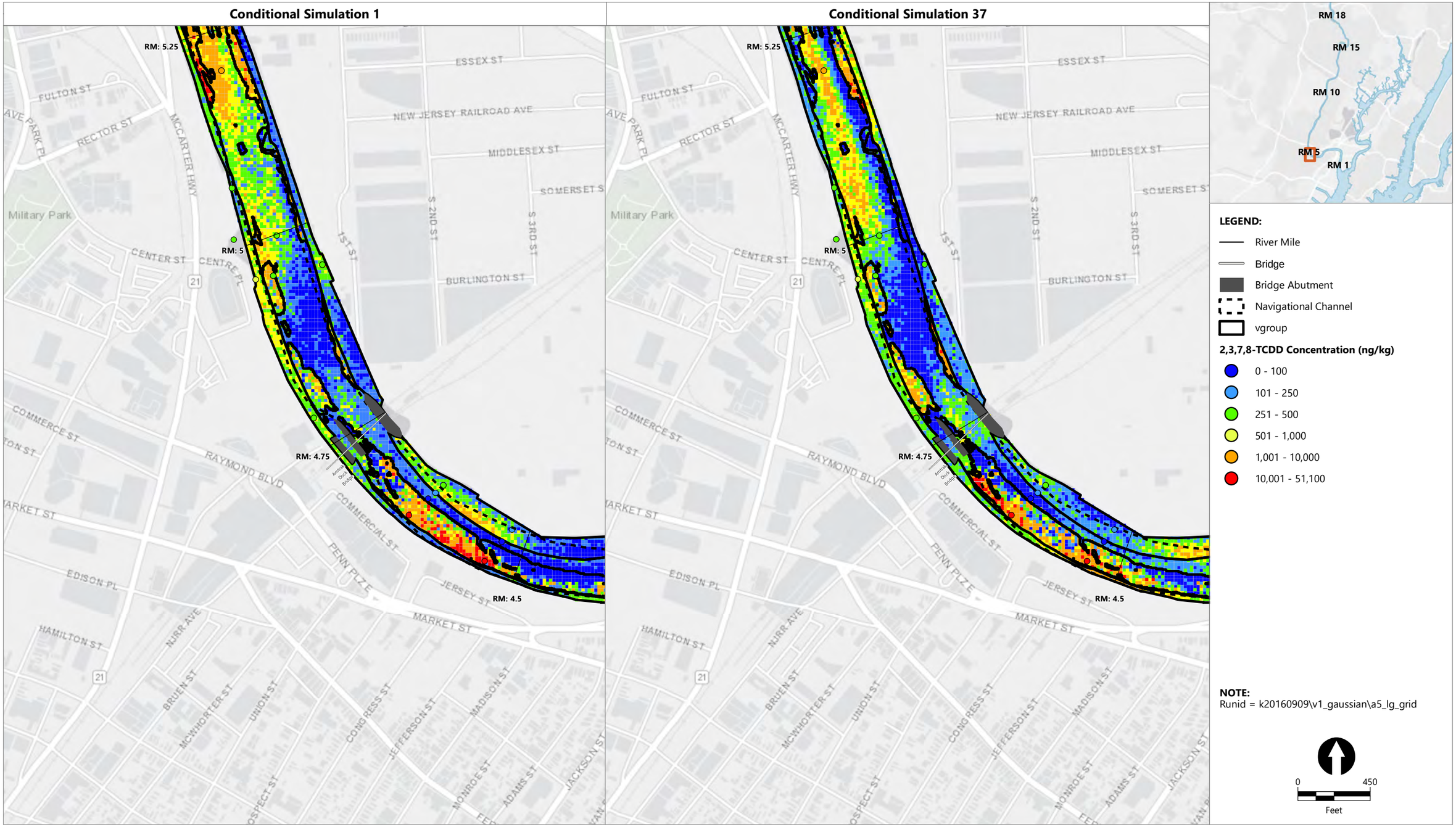
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Figure 7-1q
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



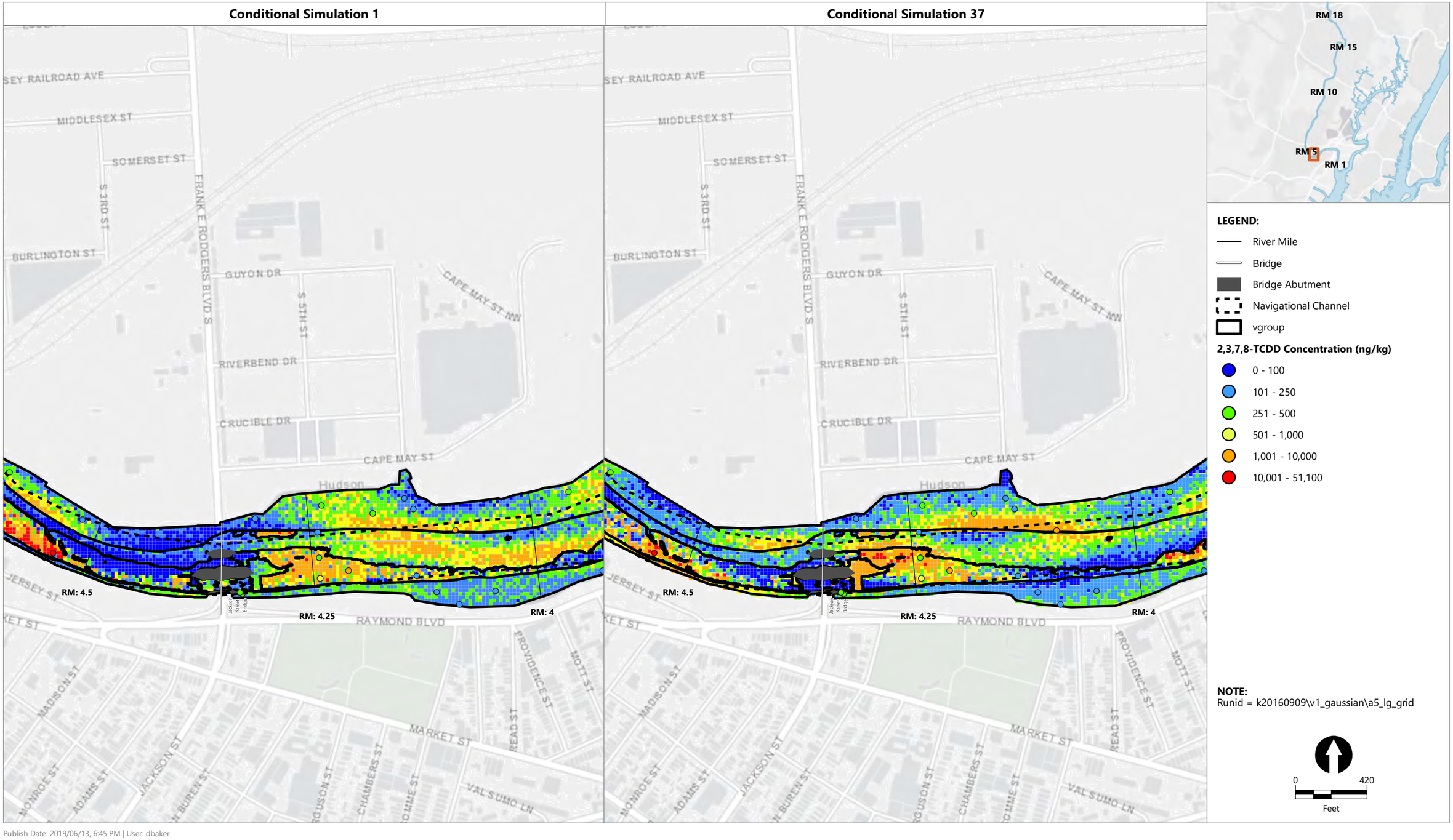
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Figure 7-1r
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



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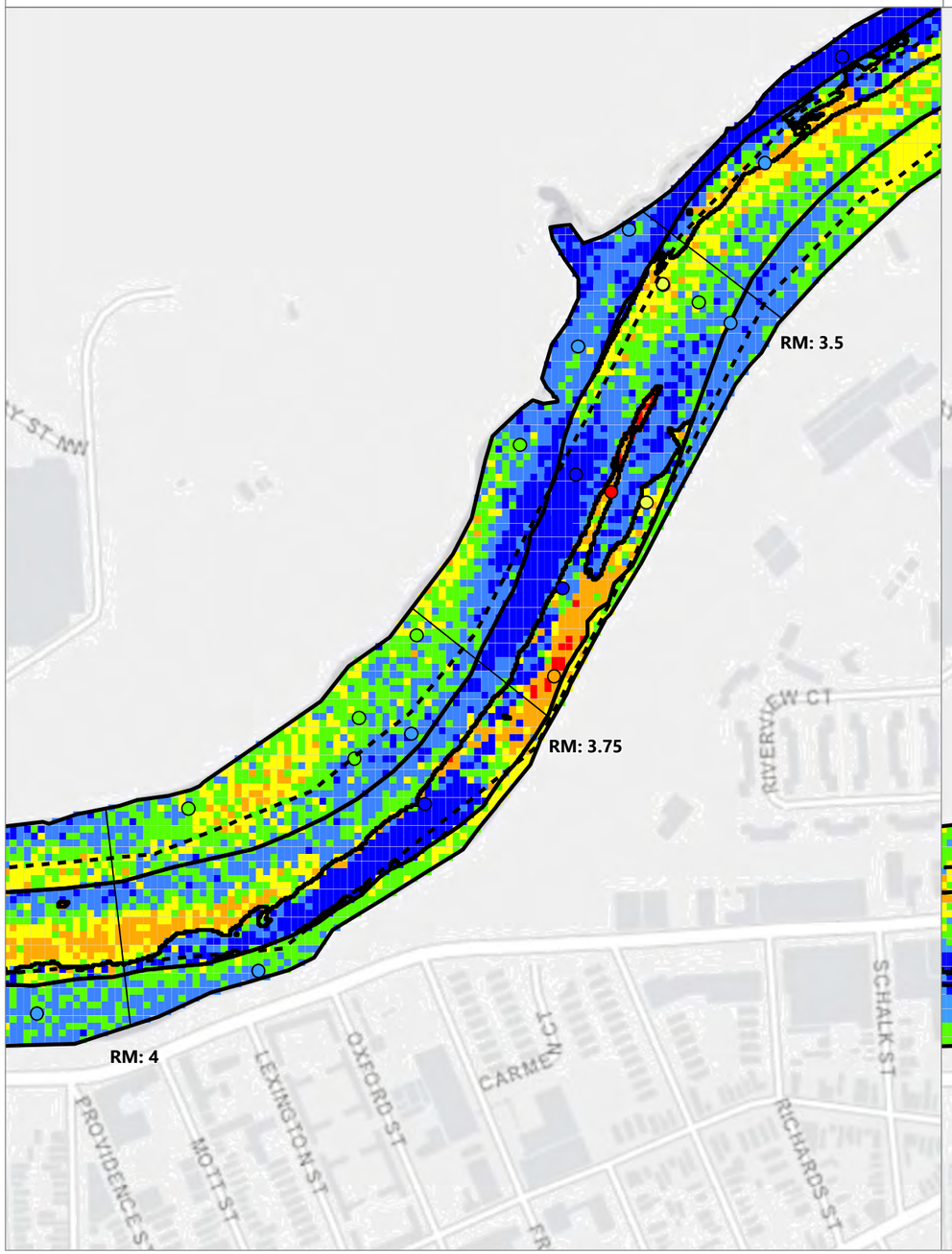
Figure 7-1s
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



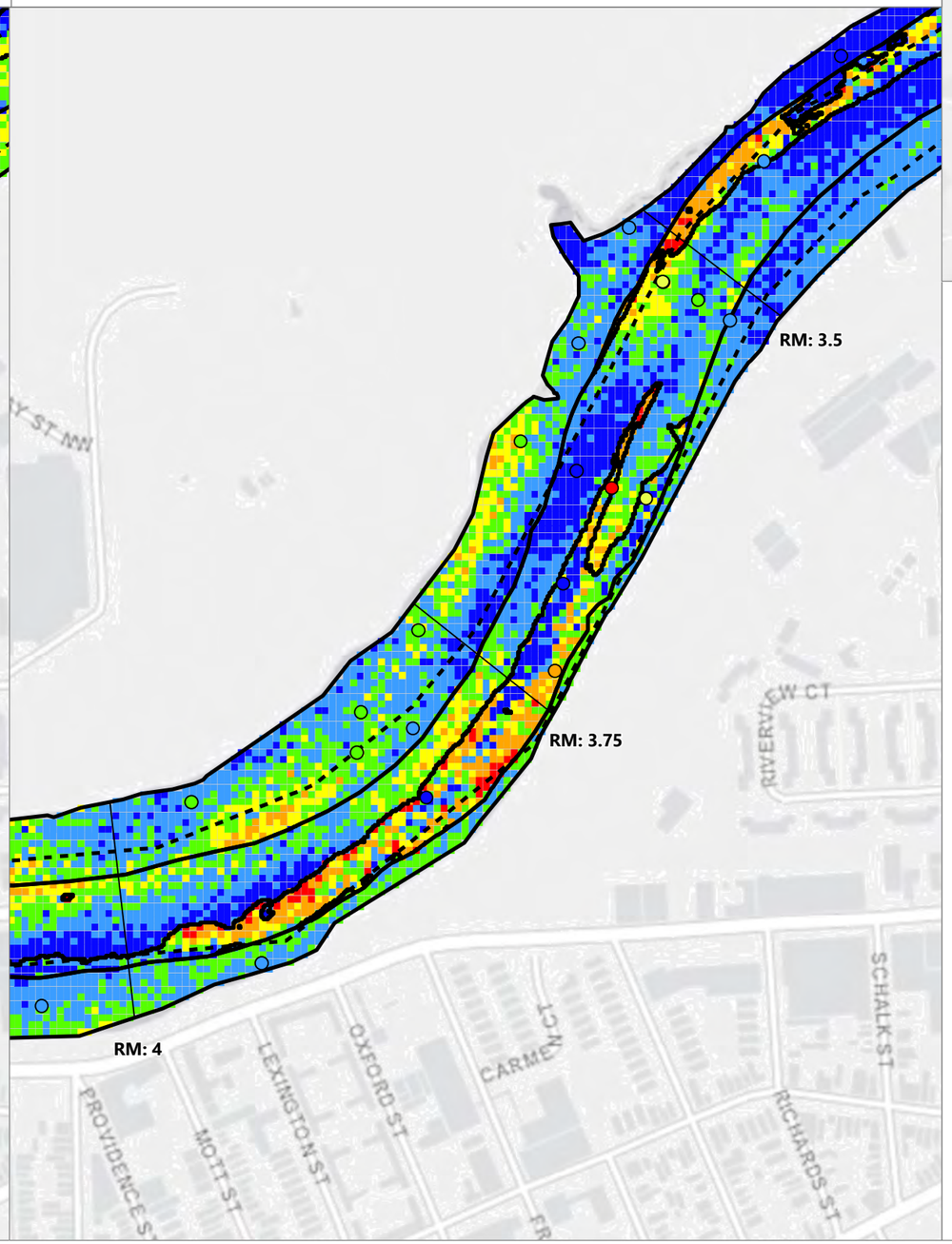
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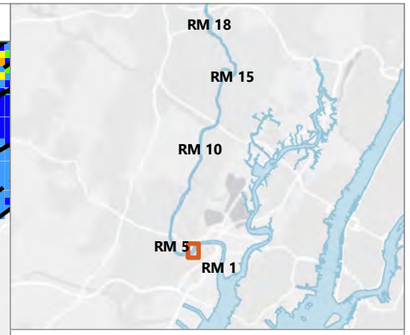
Figure 7-1t
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

Conditional Simulation 1



Conditional Simulation 37





LEGEND:

- River Mile
- Bridge
- Navigational Channel
- vgroup

2,3,7,8-TCDD Concentration (ng/kg)

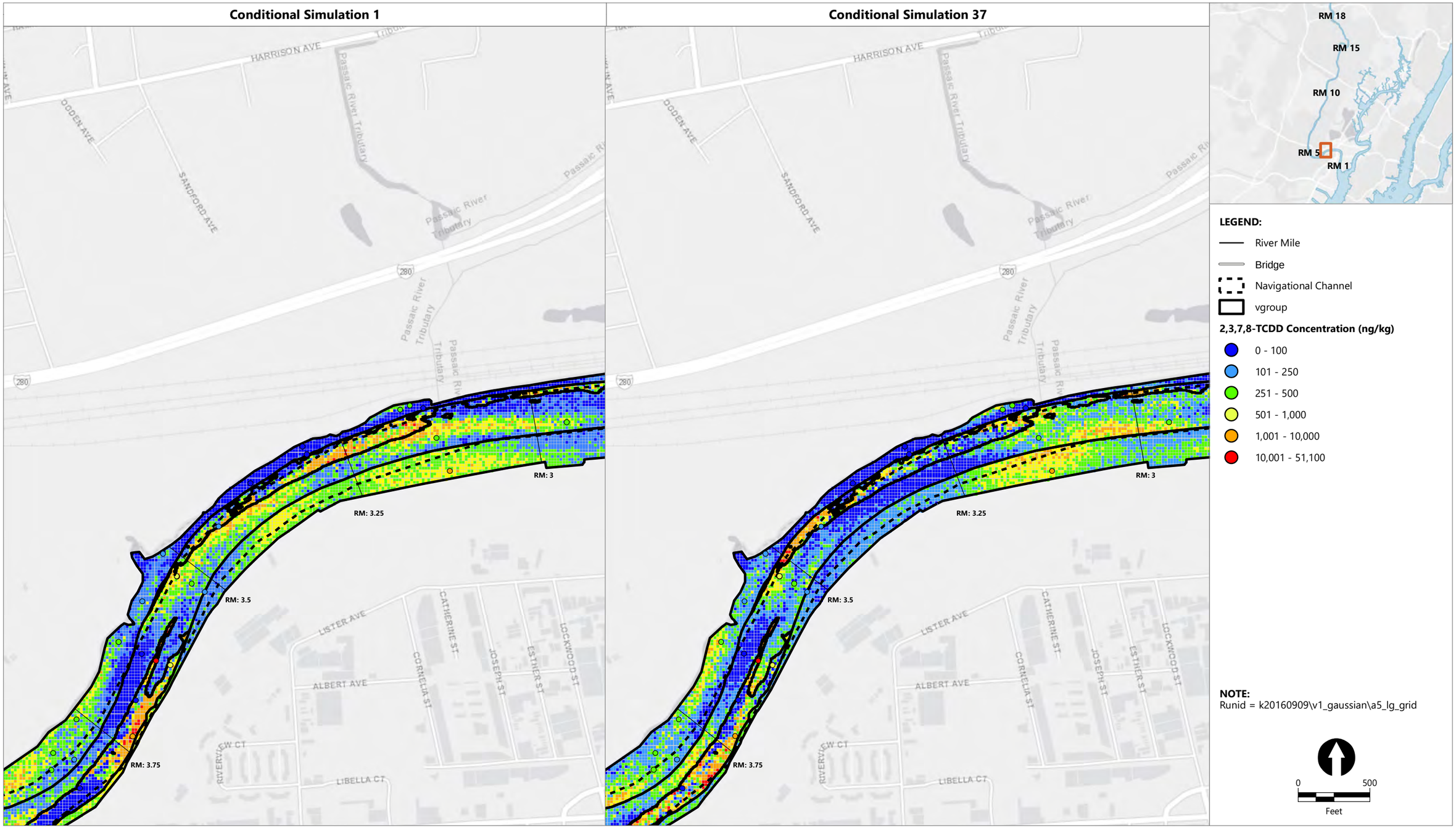
- 0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- 10,001 - 51,100

NOTE:
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0 320
Feet

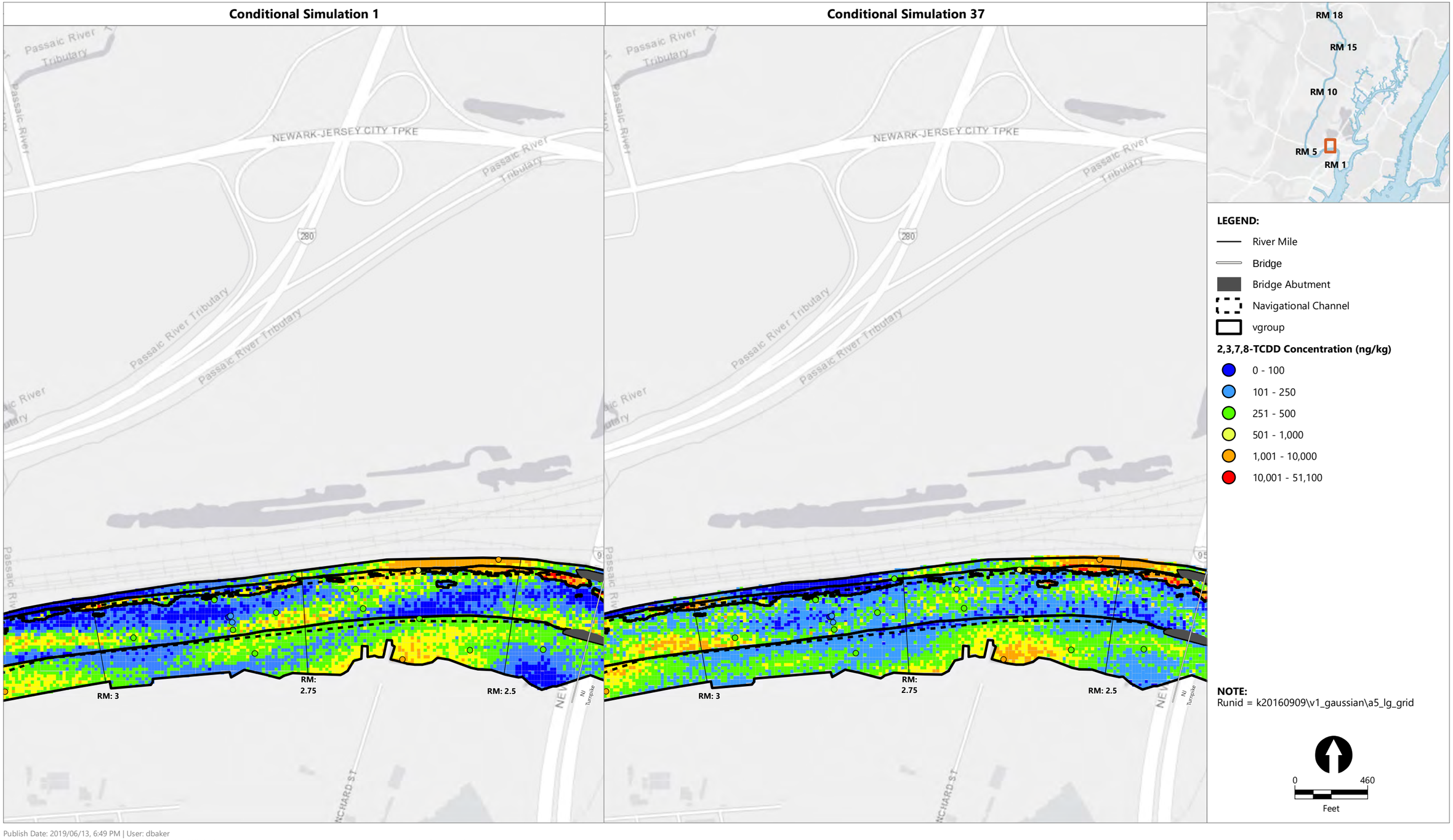
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Figure 7-1u
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



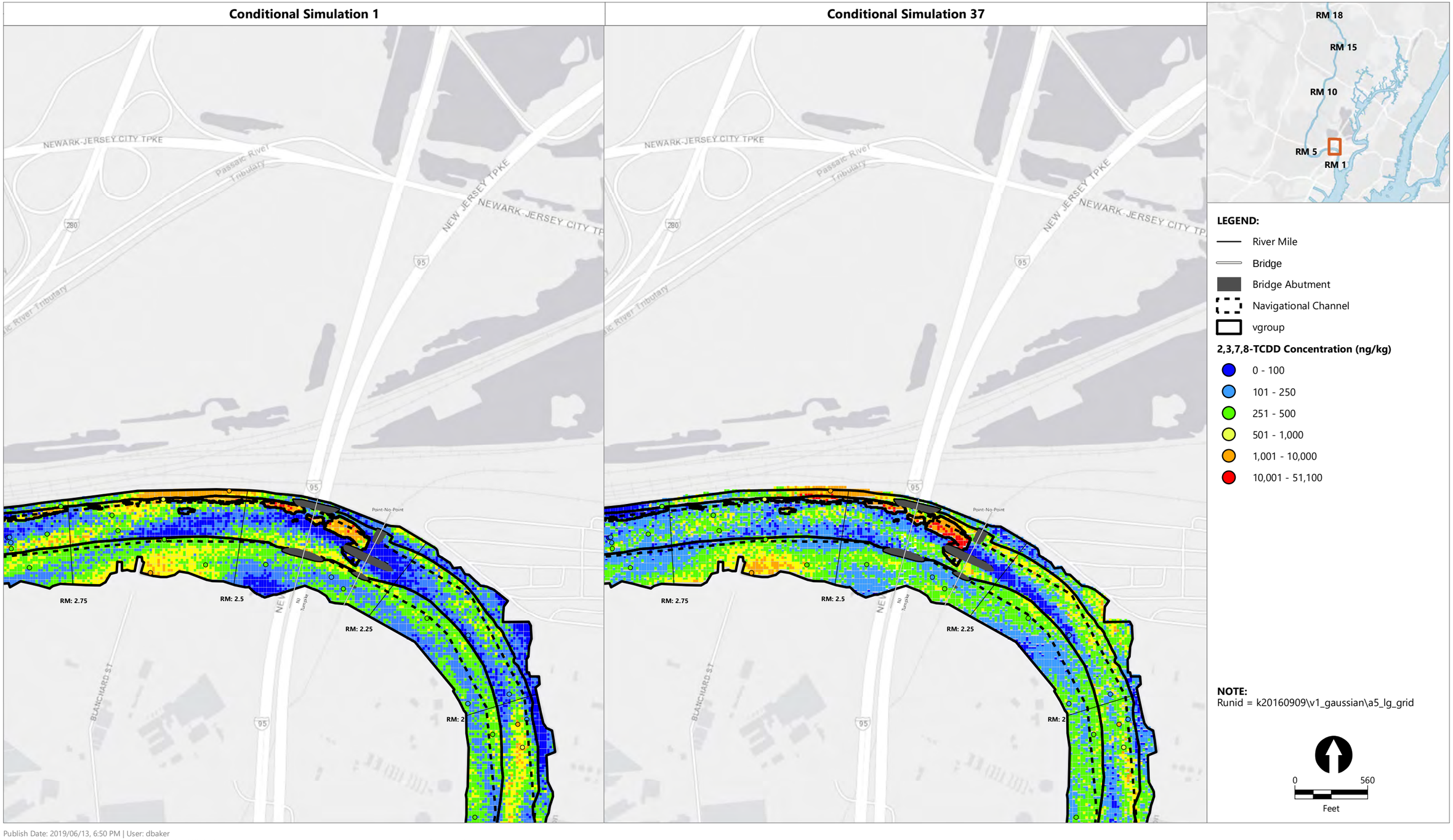
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Figure 7-1v
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



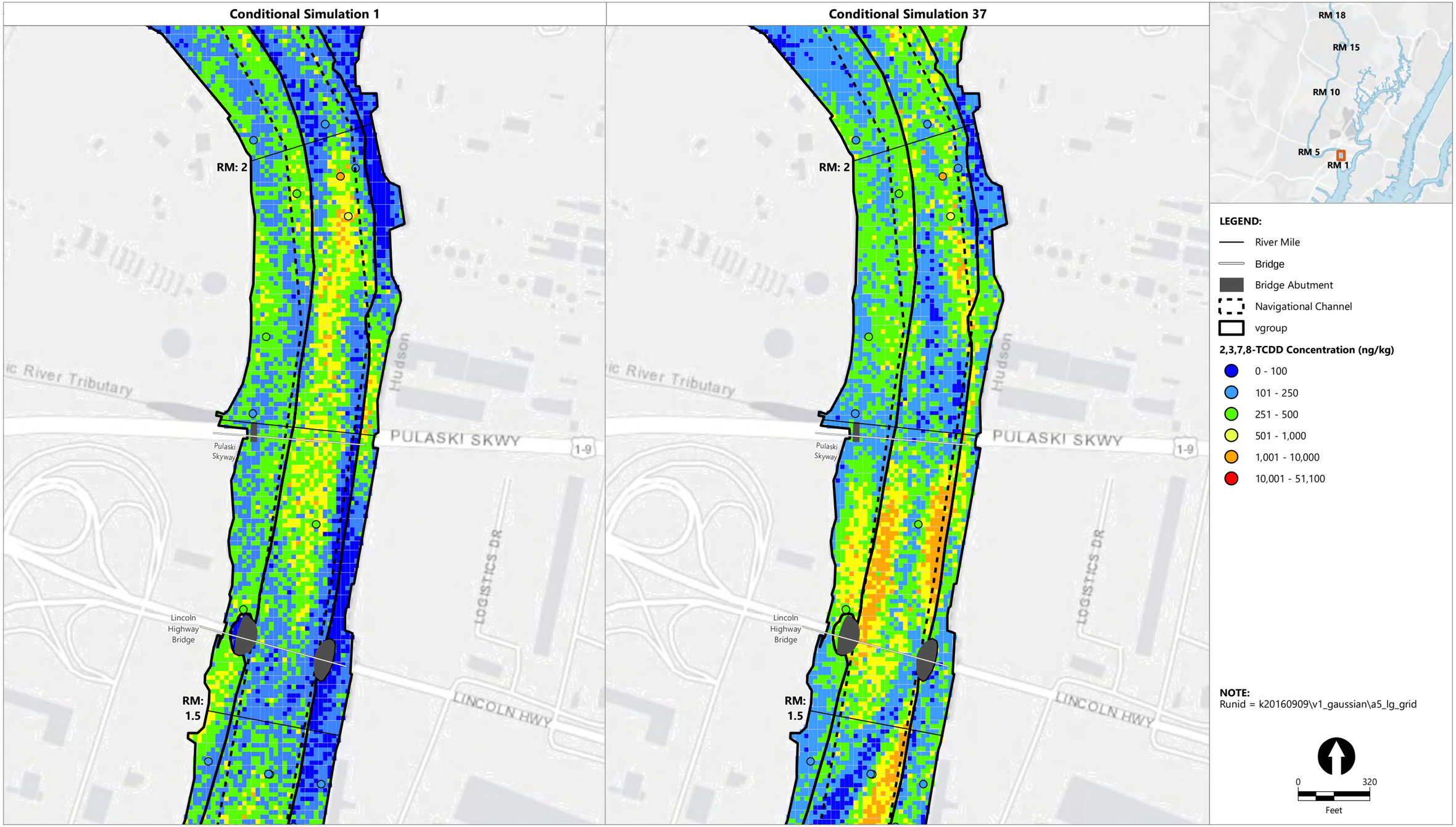
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Figure 7-1w
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



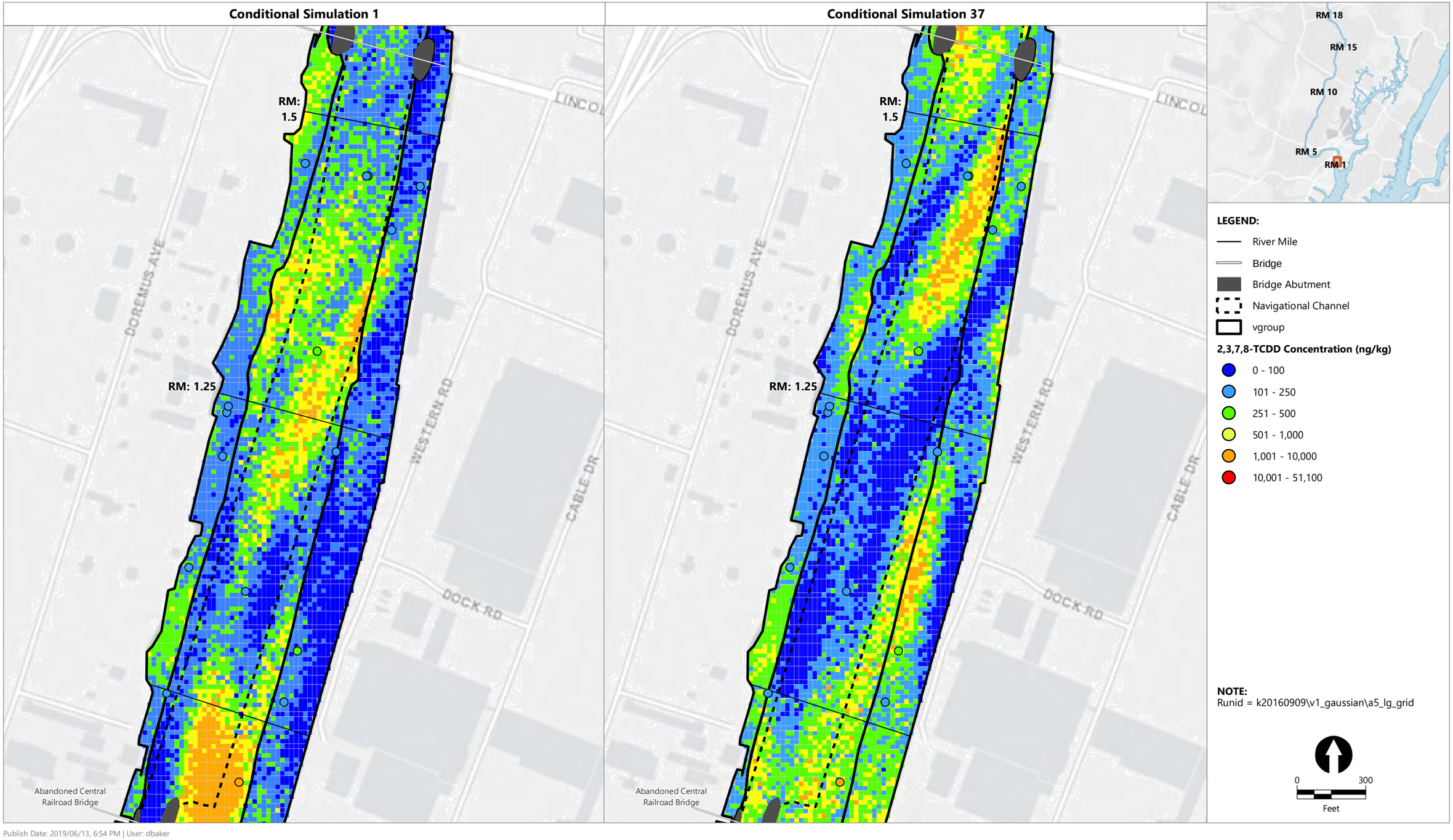
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Figure 7-1x
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



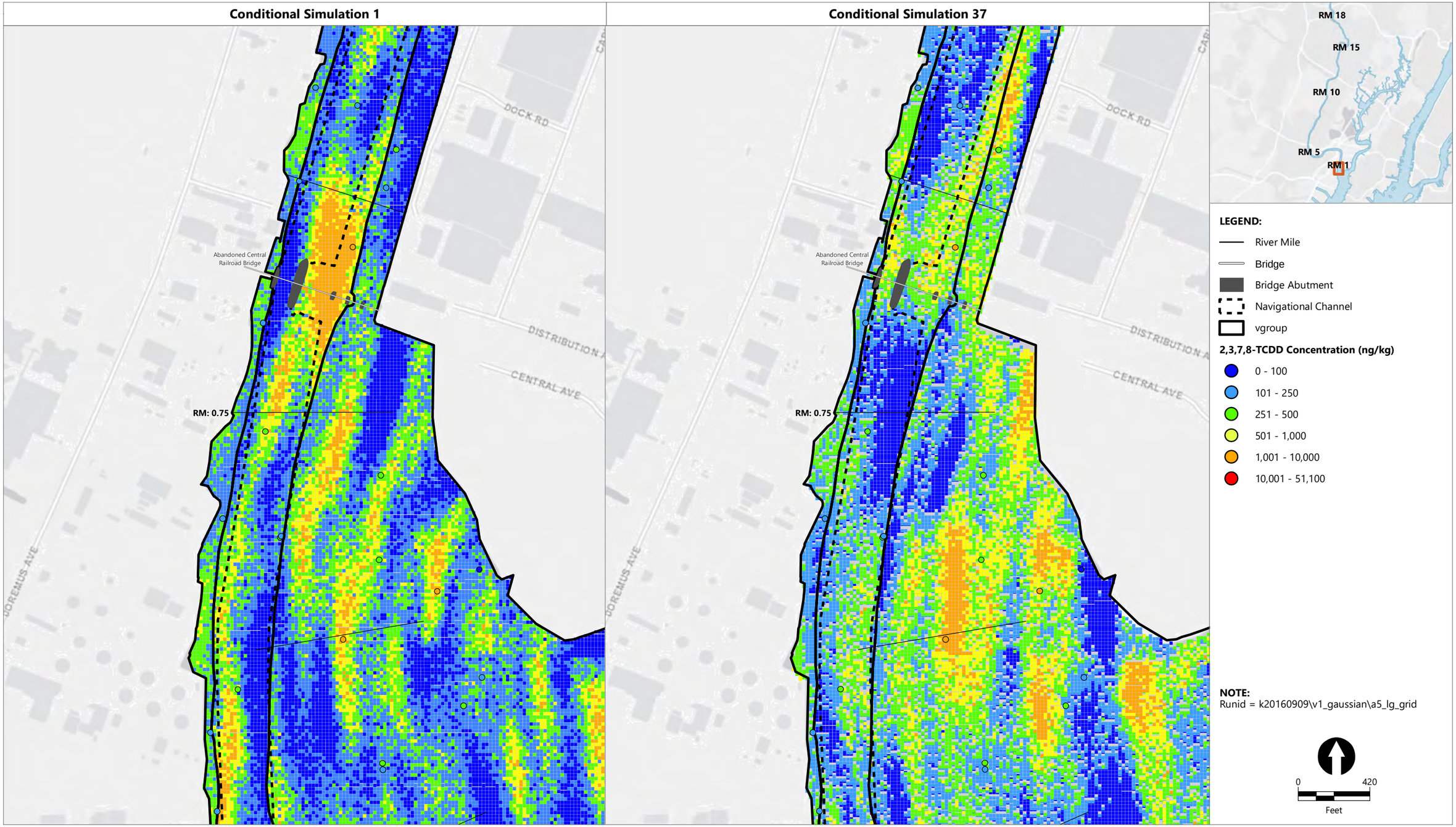
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Figure 7-1y
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



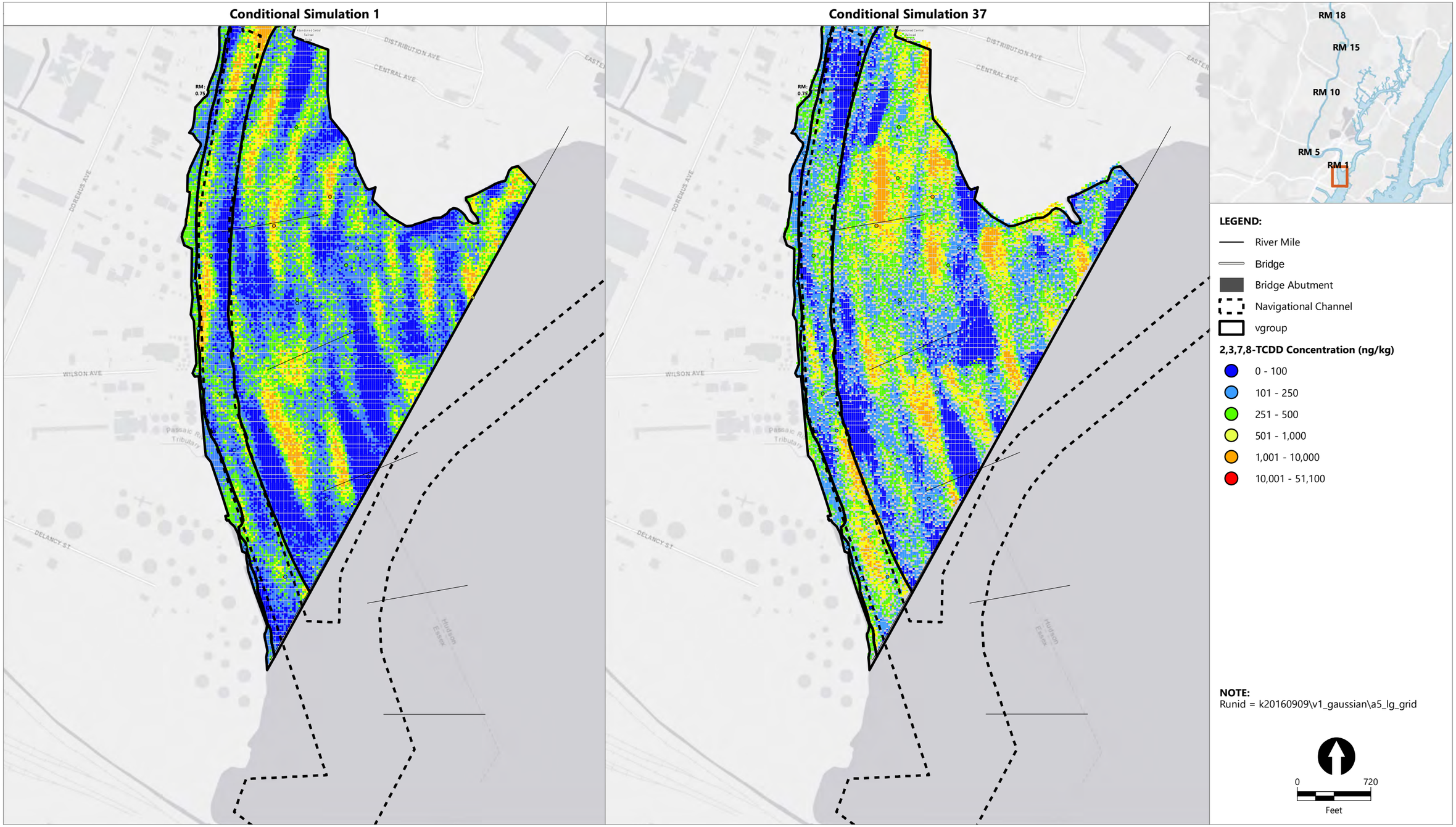
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Figure 7-1z
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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Figure 7-1aa
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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Figure 7-1ab
Sample 2,3,7,8-TCDD Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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Figure 7-2a
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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Figure 7-2b
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

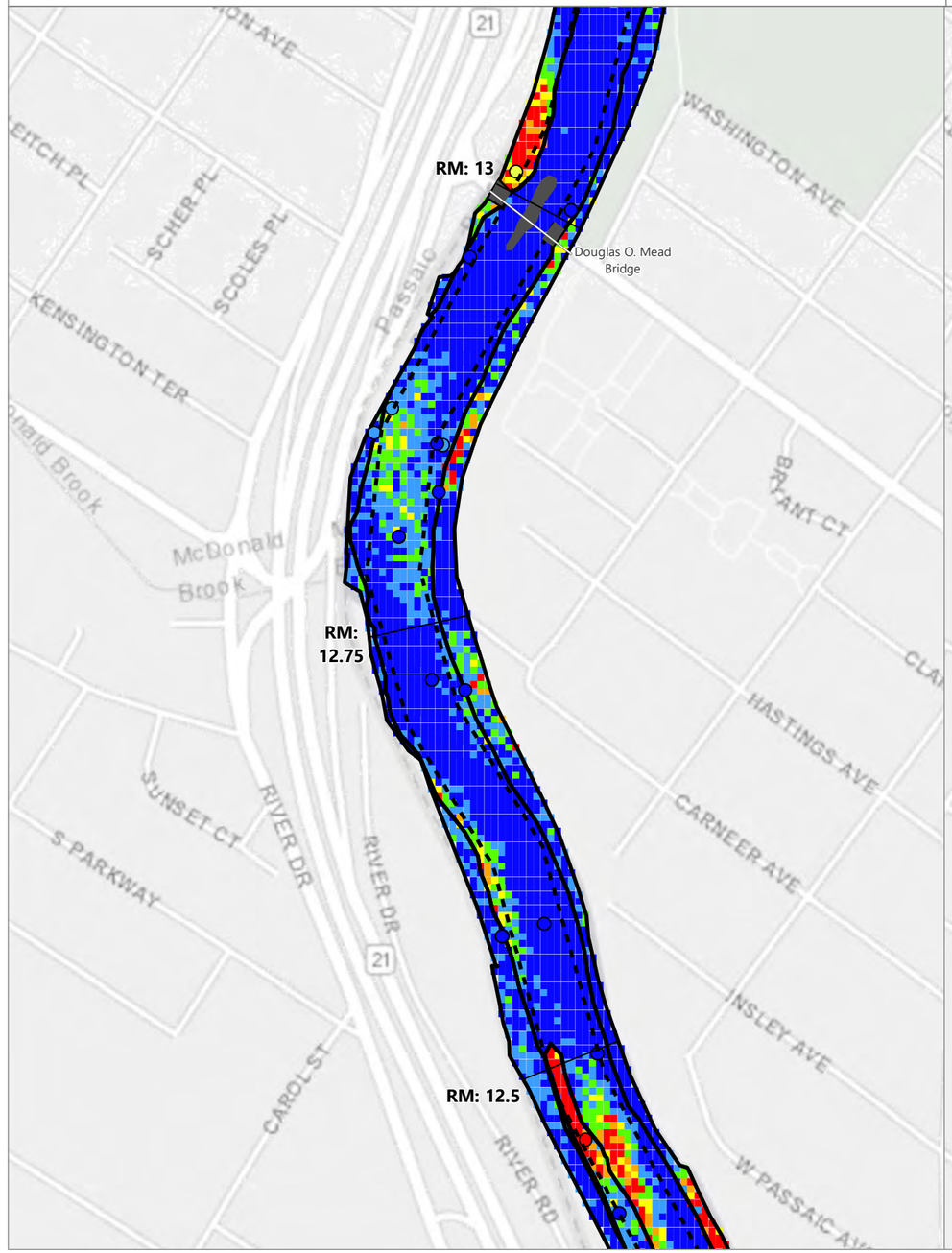


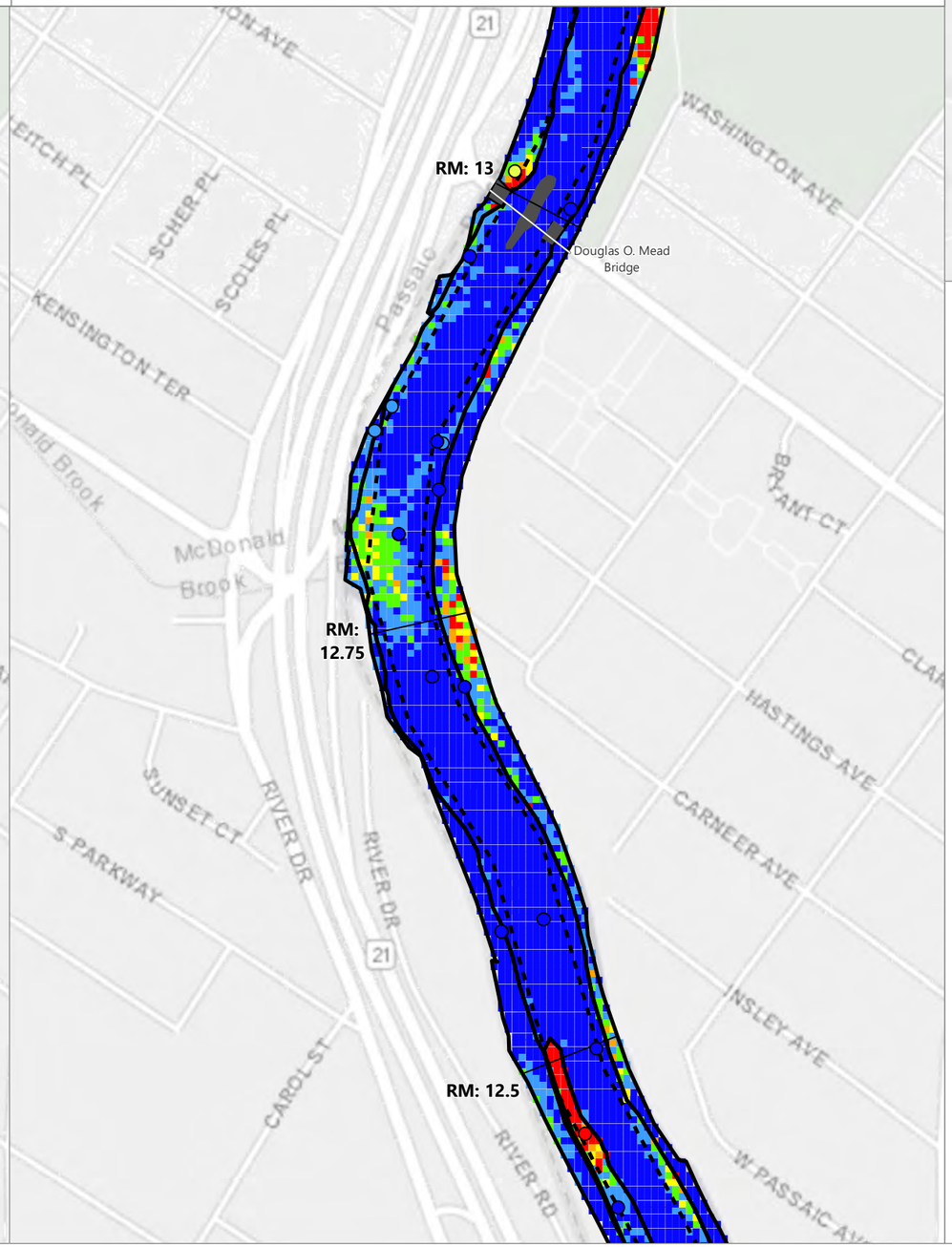
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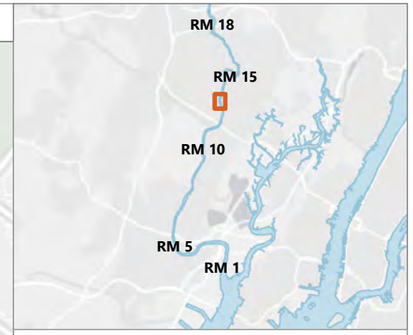
Figure 7-2c
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

Conditional Simulation 1

Conditional Simulation 37







LEGEND:

- River Mile
- Bridge
- Bridge Abutment
- Navigational Channel
- vgroup

Tetra-CB Concentration (mg/kg)

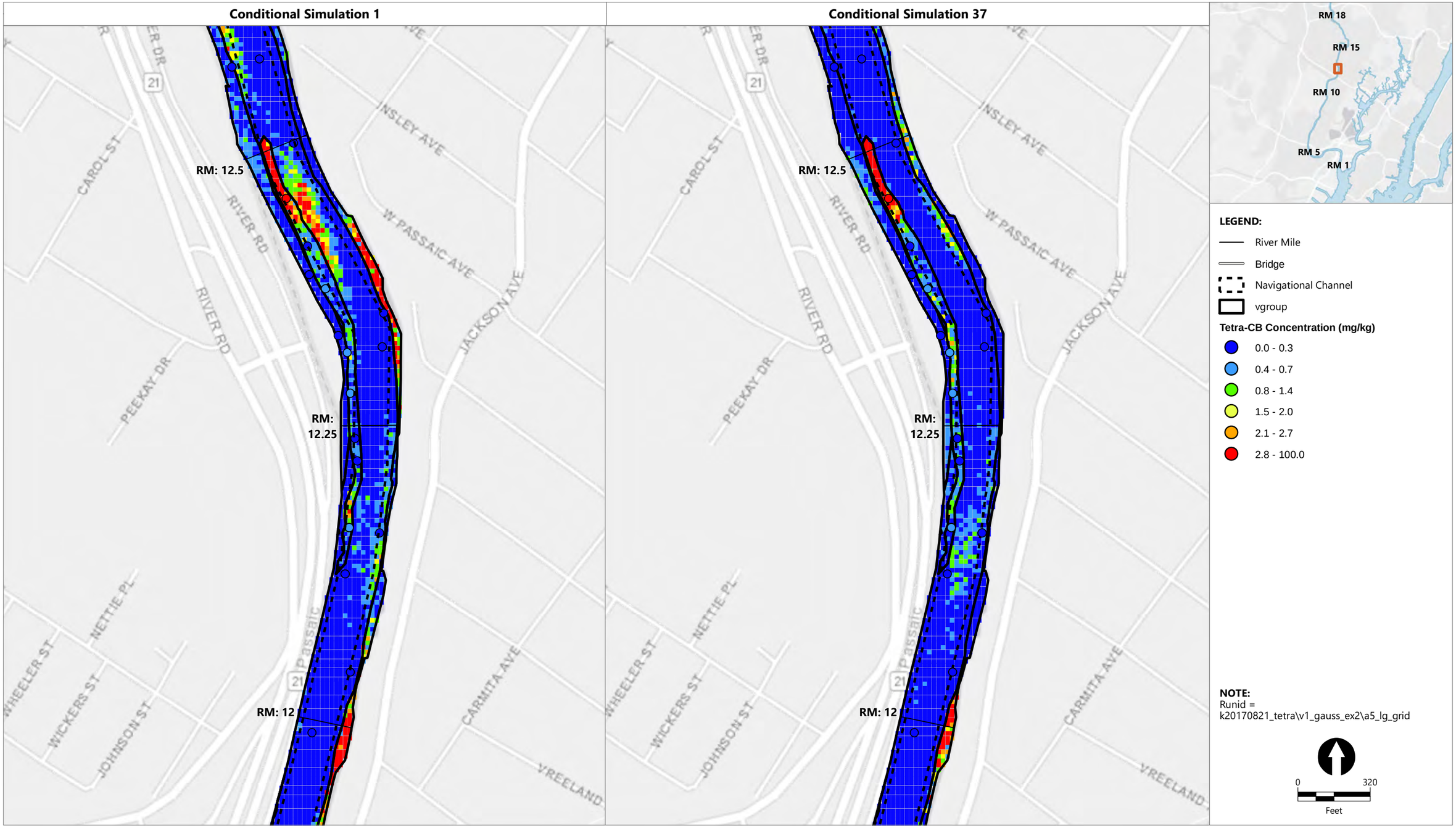
- 0.0 - 0.3
- 0.4 - 0.7
- 0.8 - 1.4
- 1.5 - 2.0
- 2.1 - 2.7
- 2.8 - 100.0

NOTE:
Runid = k20170821_tetra\v1_gauss_ex2\a5_lg_grid

0 320
Feet

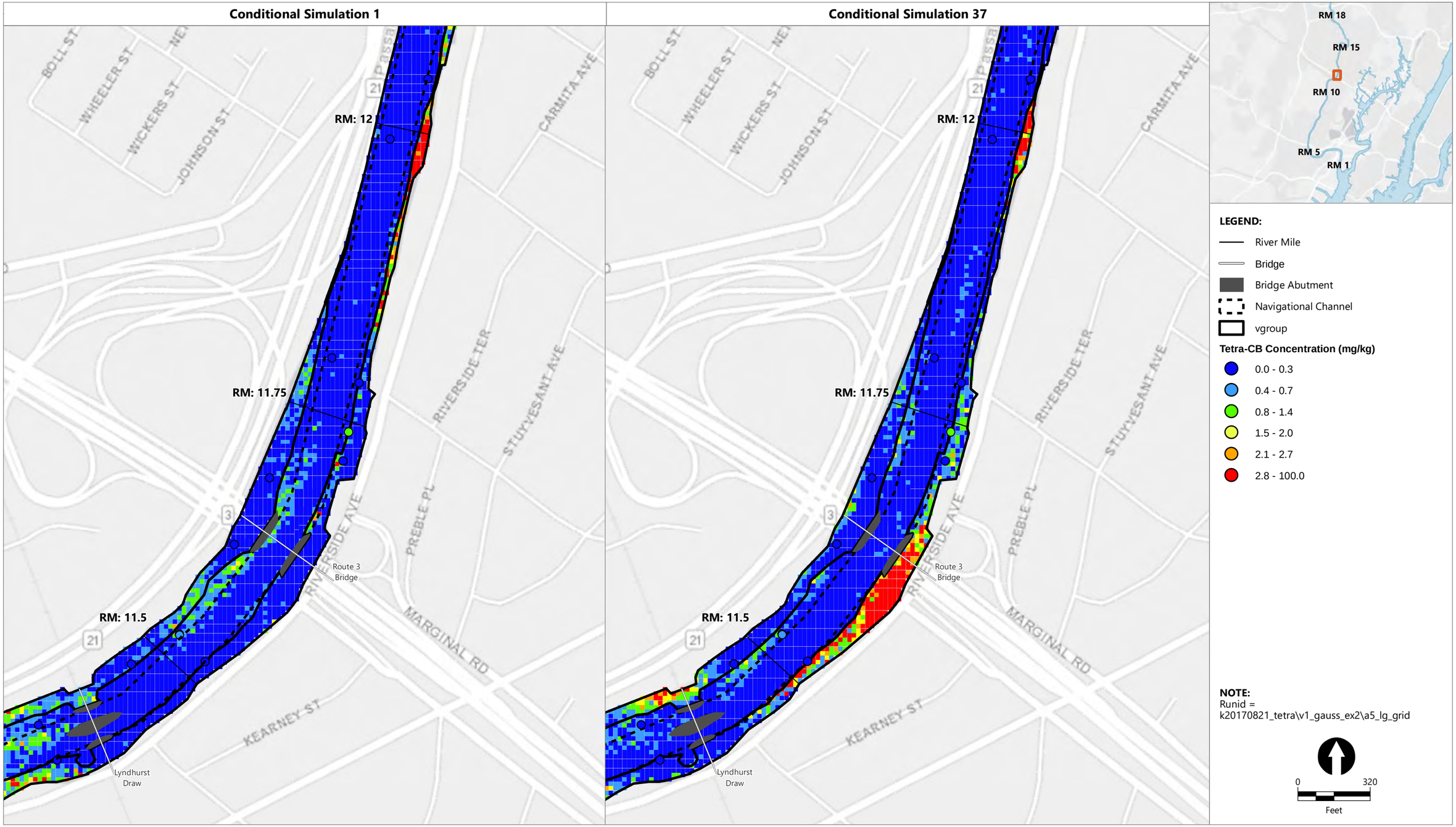
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Figure 7-2d
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



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Figure 7-2e
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

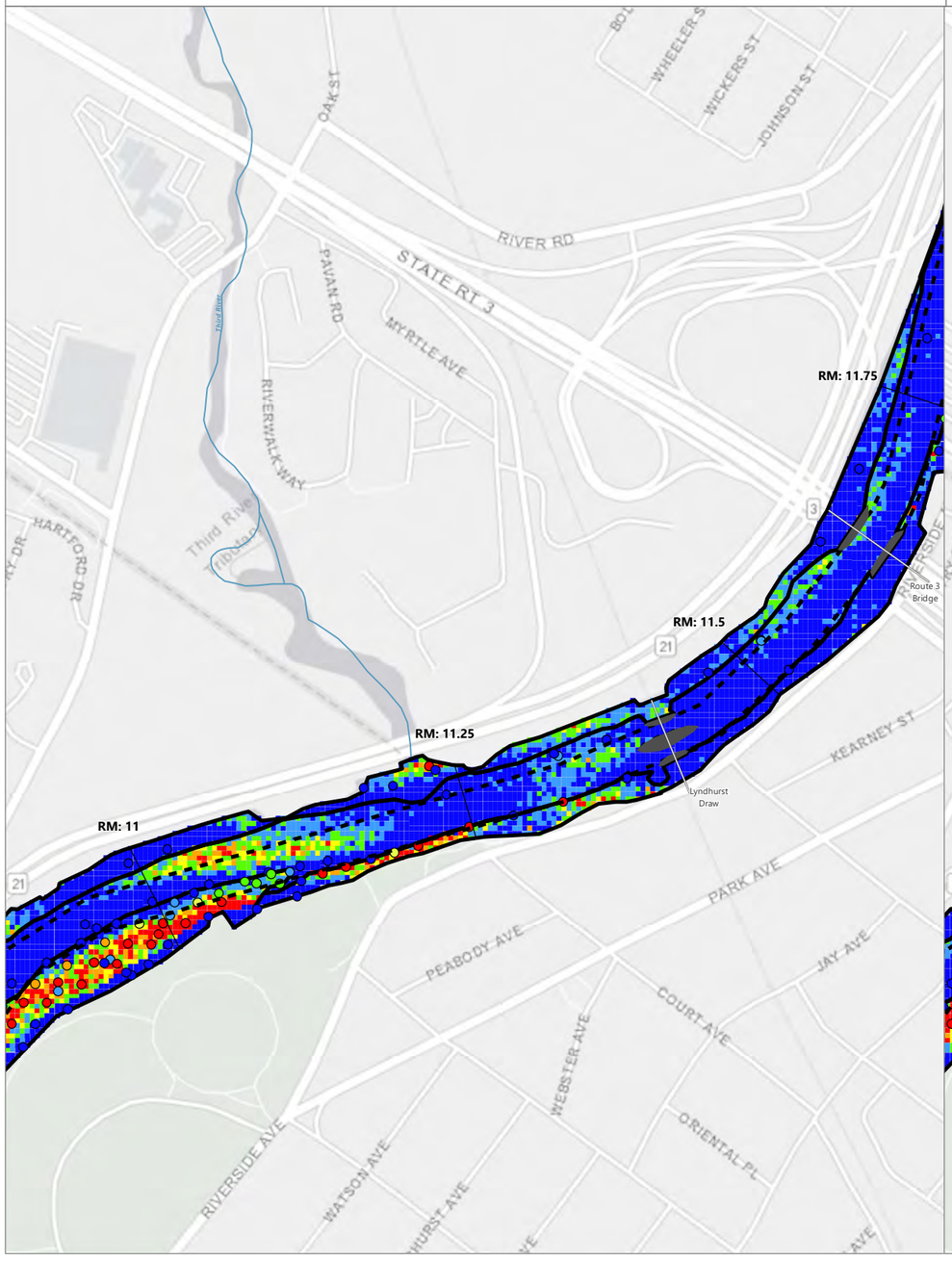


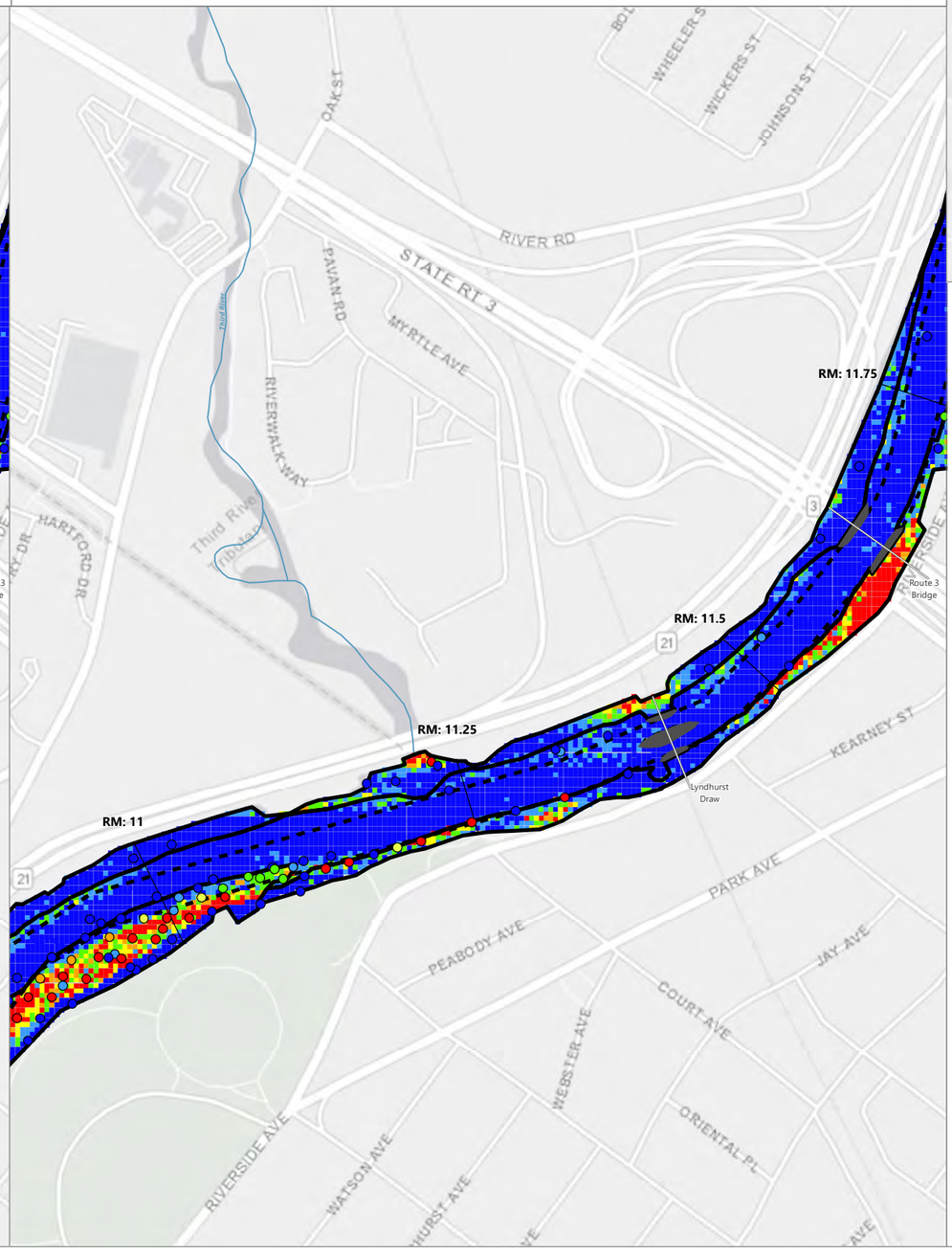
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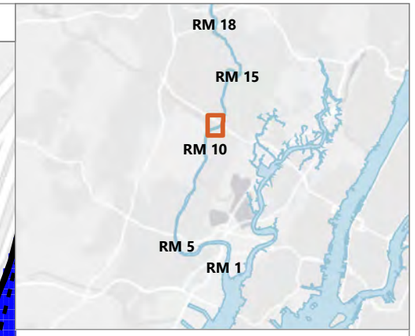
Figure 7-2f
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

Conditional Simulation 1

Conditional Simulation 37







LEGEND:

- River Mile
- Bridge
- Bridge Abutment
- Navigational Channel
- vgroup

Tetra-CB Concentration (mg/kg)

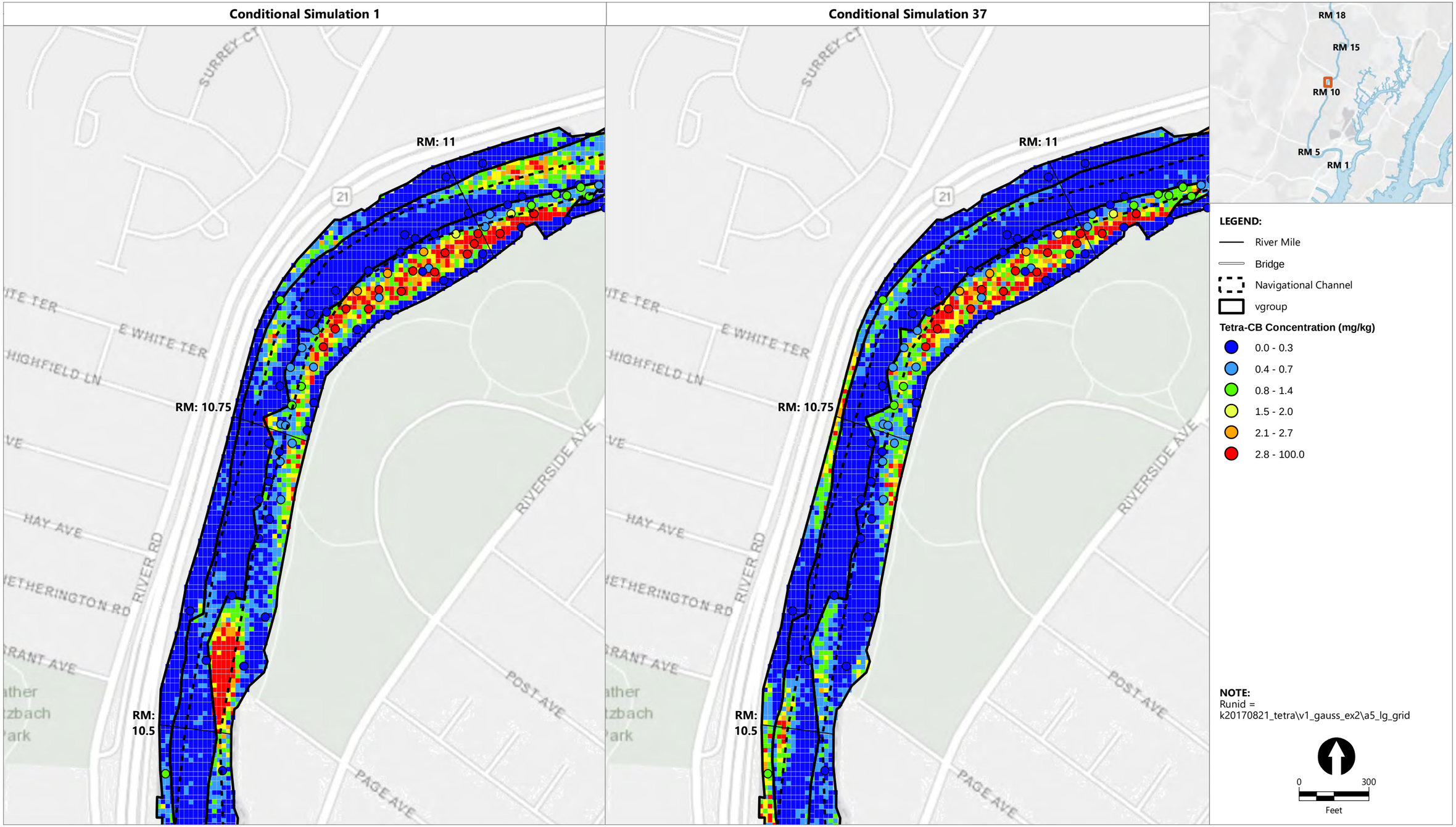
- 0.0 - 0.3
- 0.4 - 0.7
- 0.8 - 1.4
- 1.5 - 2.0
- 2.1 - 2.7
- 2.8 - 100.0

NOTE:
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0 460
Feet

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Figure 7-2g
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

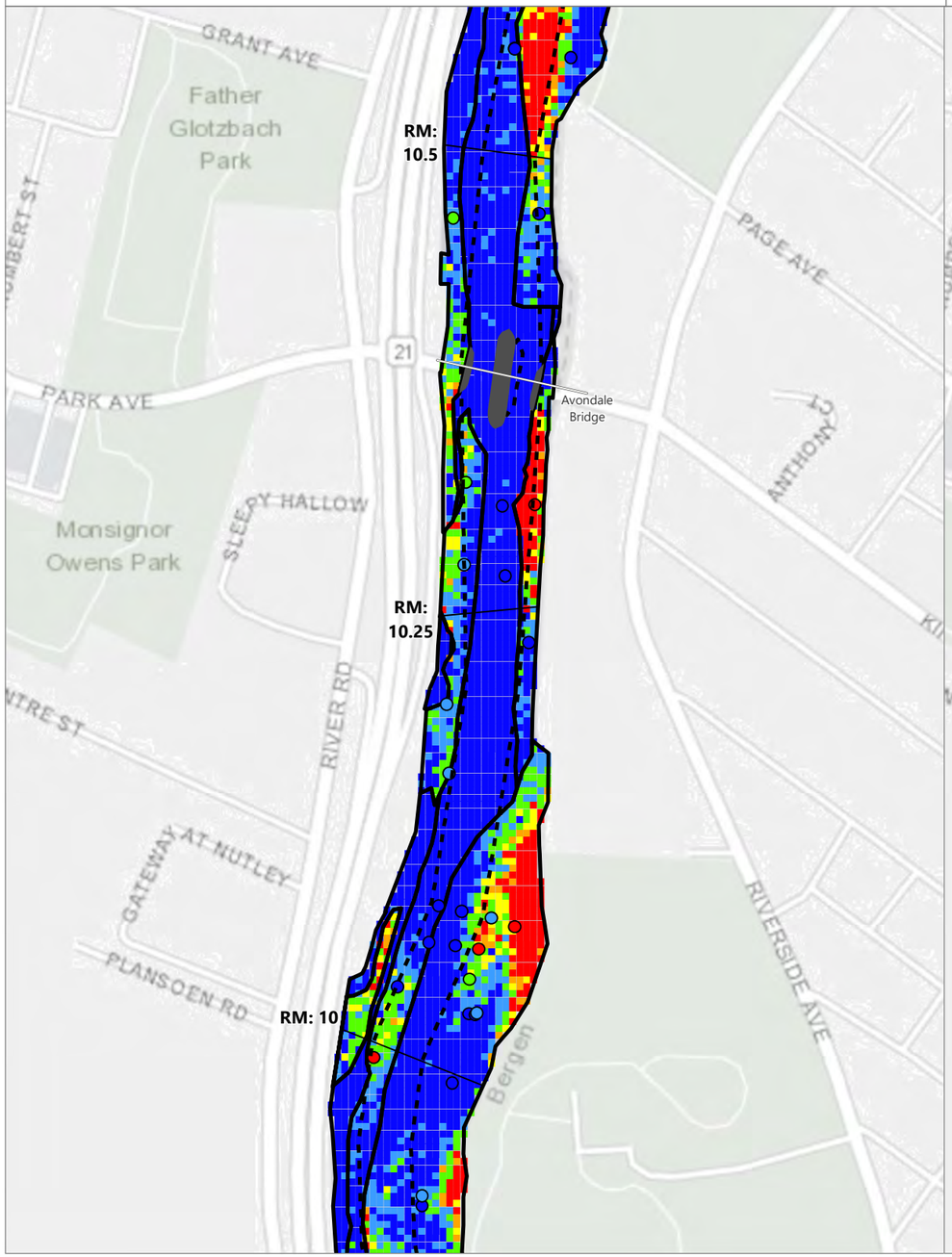


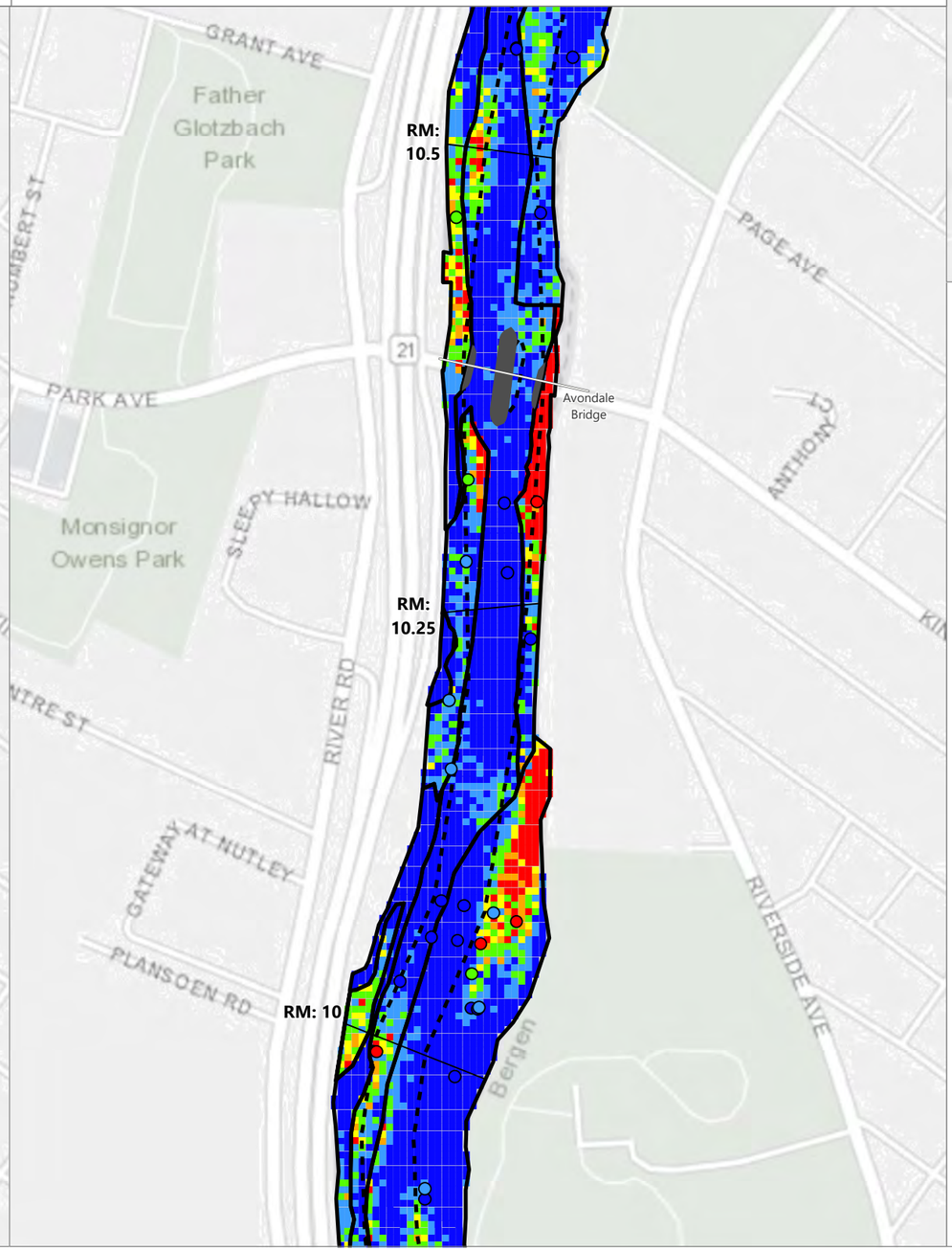
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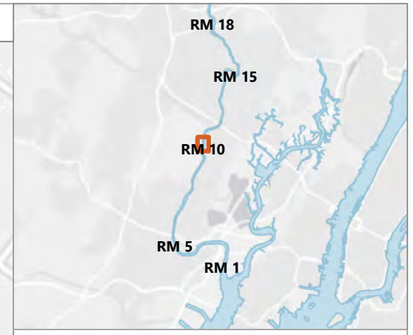
Figure 7-2h
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

Conditional Simulation 1

Conditional Simulation 37







LEGEND:

- River Mile
- Bridge
- Bridge Abutment
- Navigational Channel
- vgroup

Tetra-CB Concentration (mg/kg)

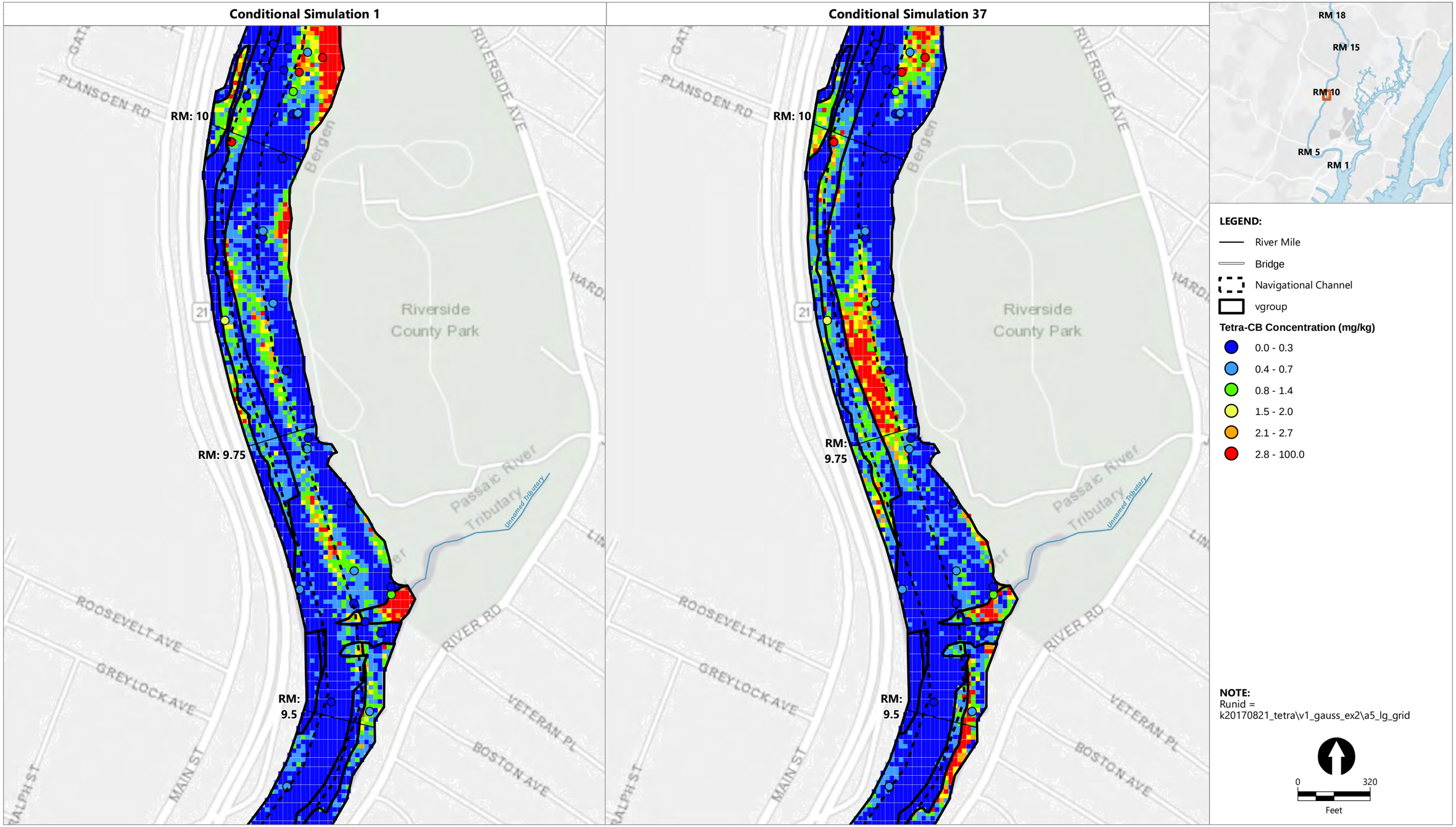
- 0.0 - 0.3
- 0.4 - 0.7
- 0.8 - 1.4
- 1.5 - 2.0
- 2.1 - 2.7
- 2.8 - 100.0

NOTE:
Runid = k20170821_tetra\v1_gauss_ex2\a5_lg_grid

0 320
Feet

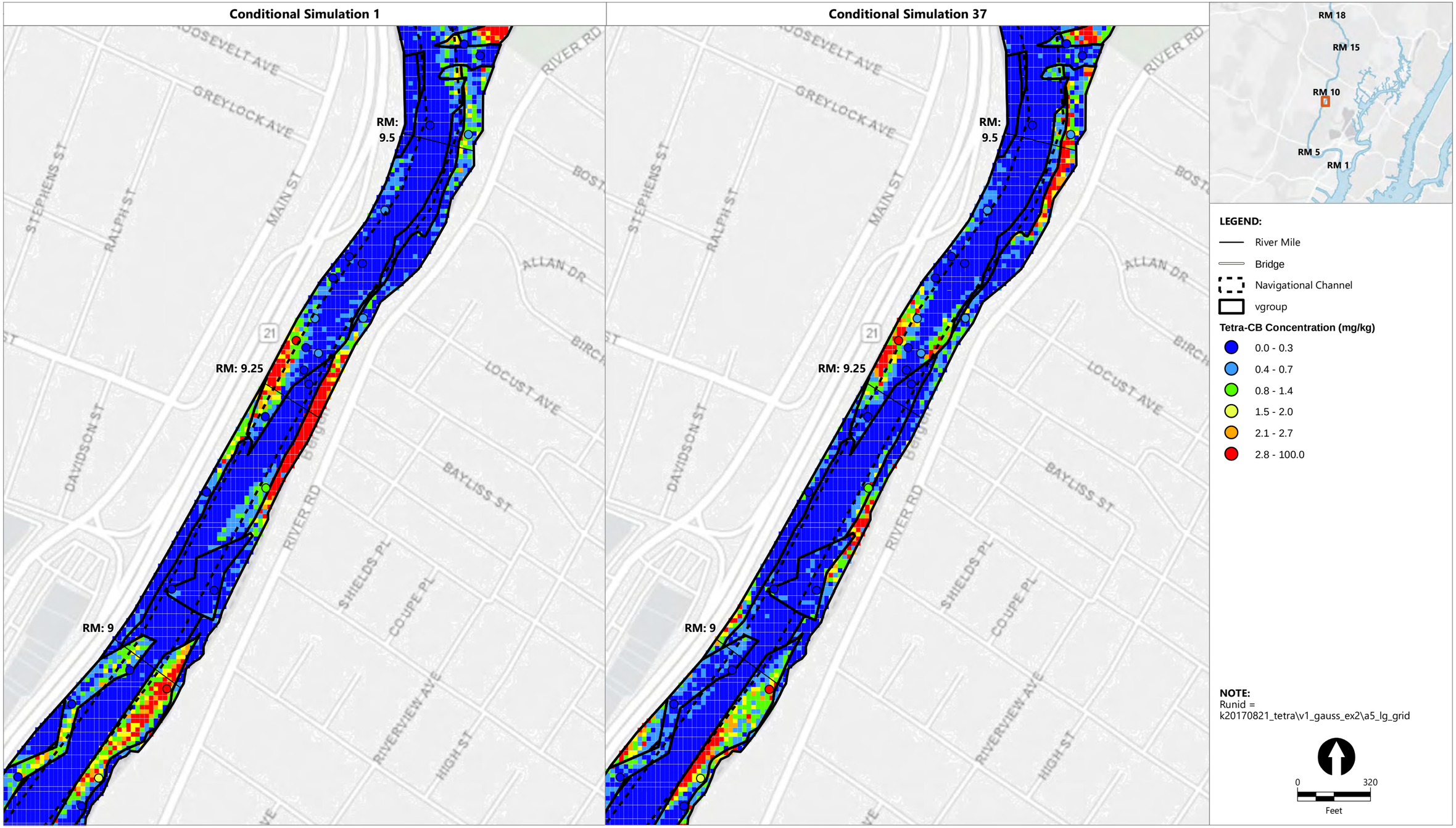
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Figure 7-2i
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



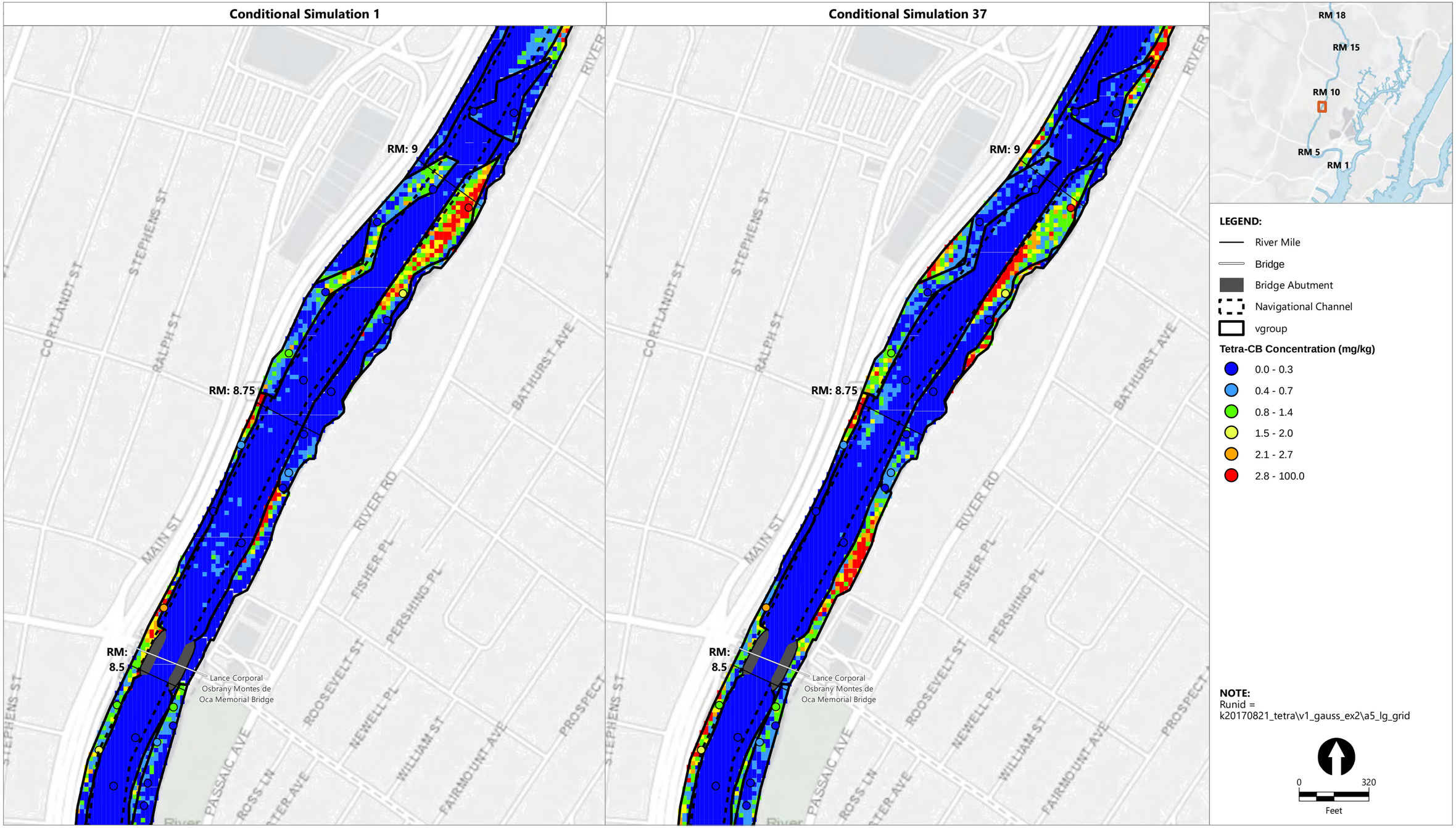
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Figure 7-2j
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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Figure 7-2k
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



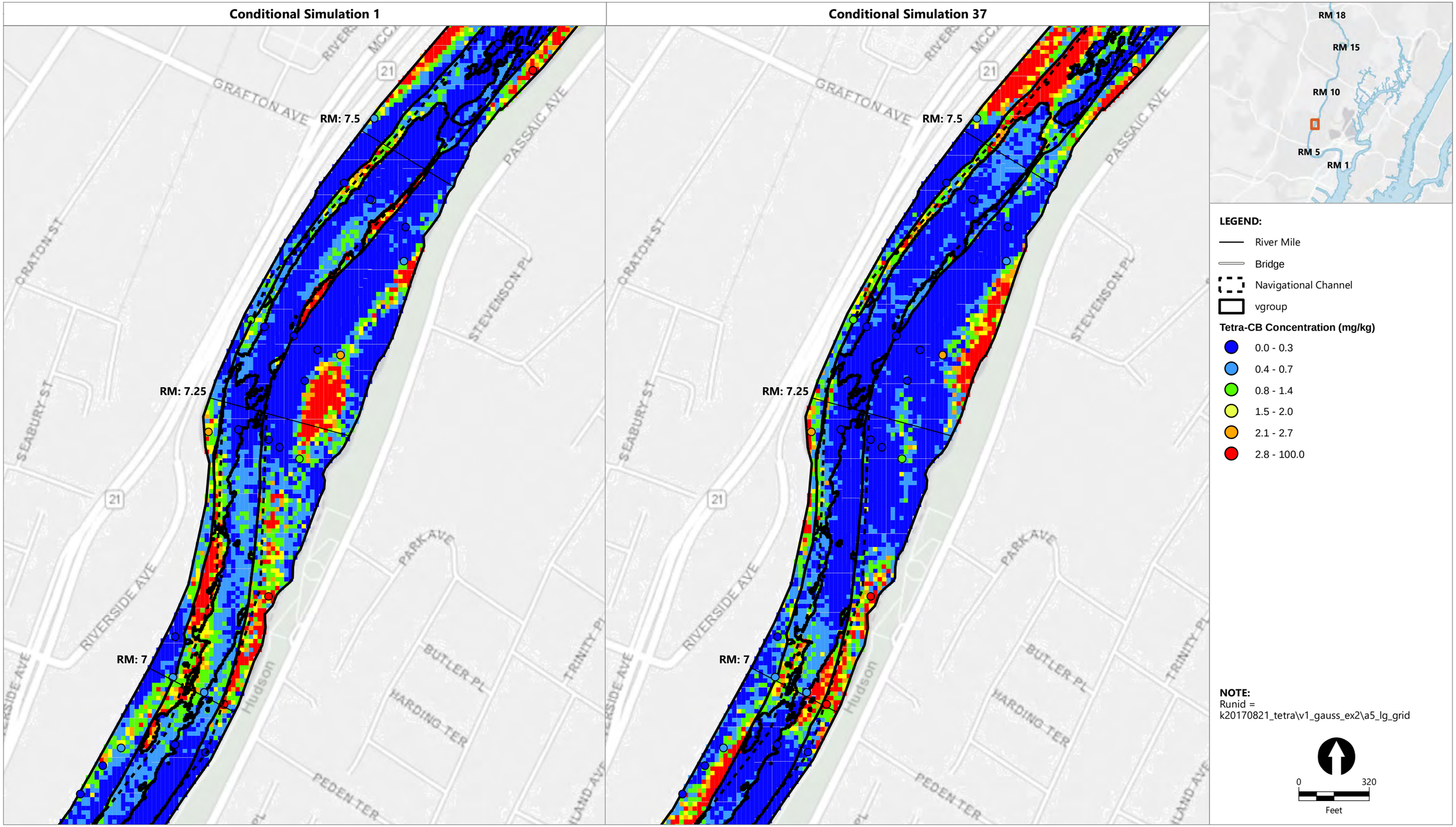
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Figure 7-2l
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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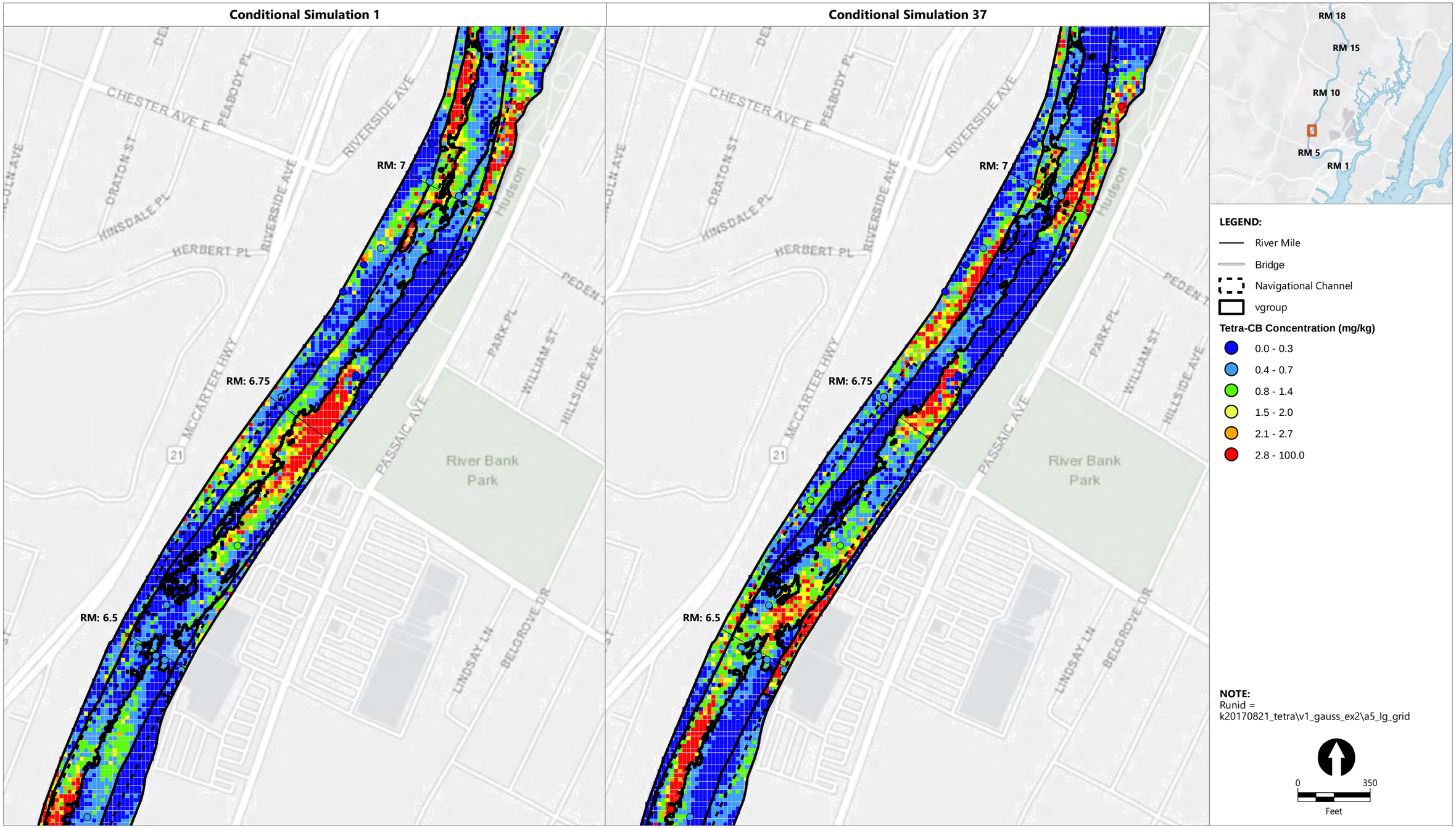
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Figure 7-2m
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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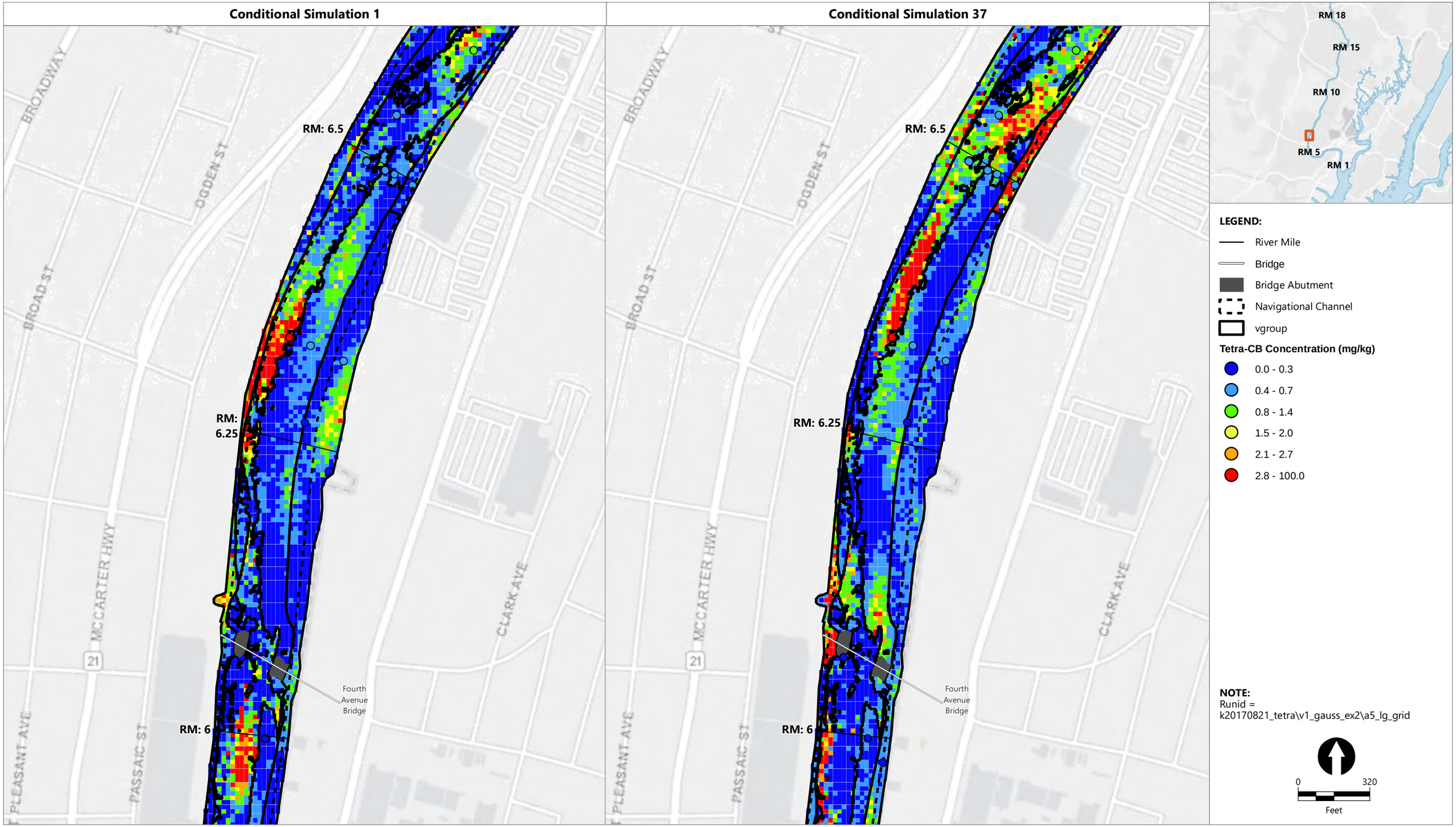
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Figure 7-2n
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



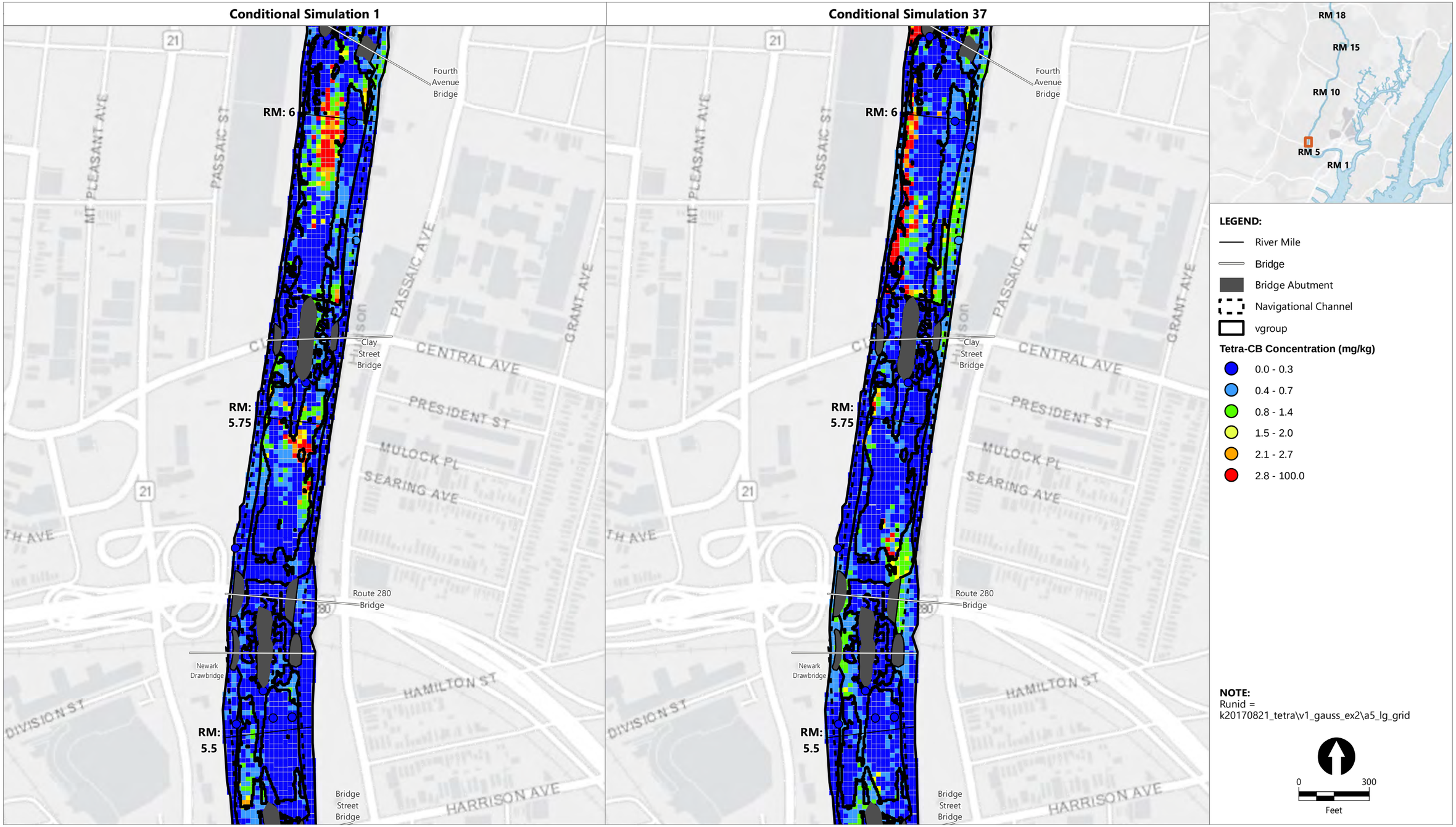
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Figure 7-2o
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
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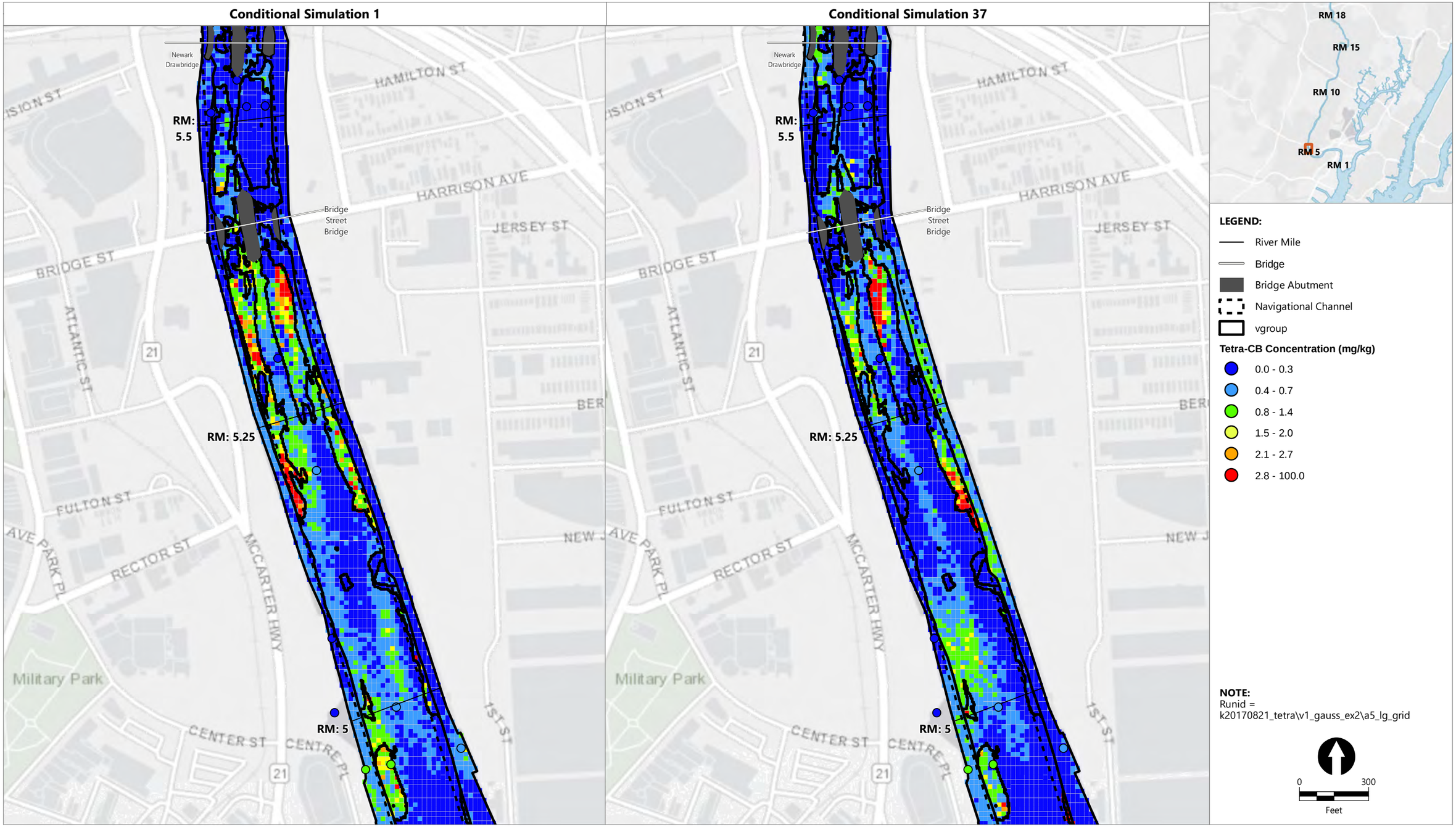
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Figure 7-2p
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



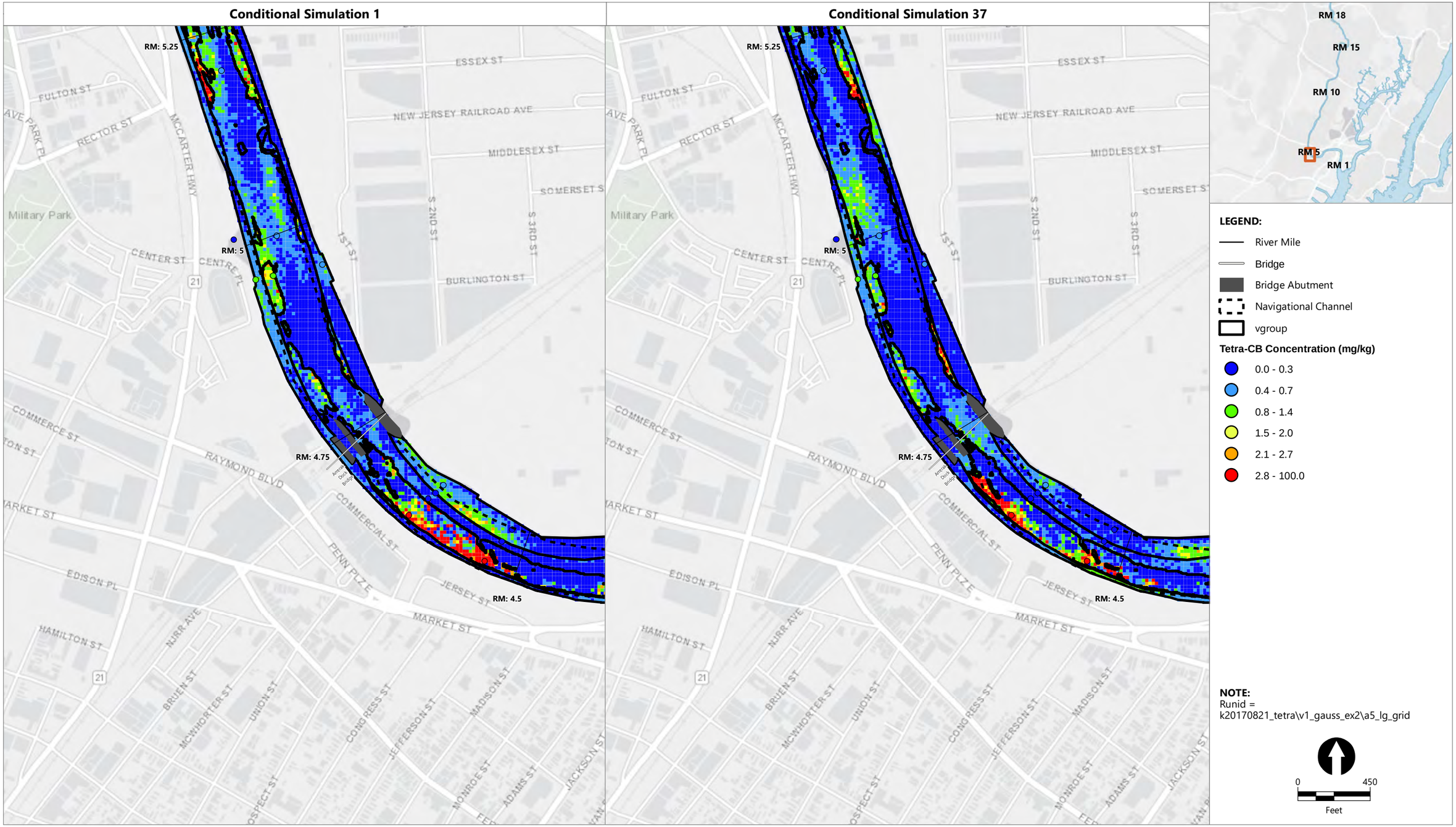
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Figure 7-2q
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



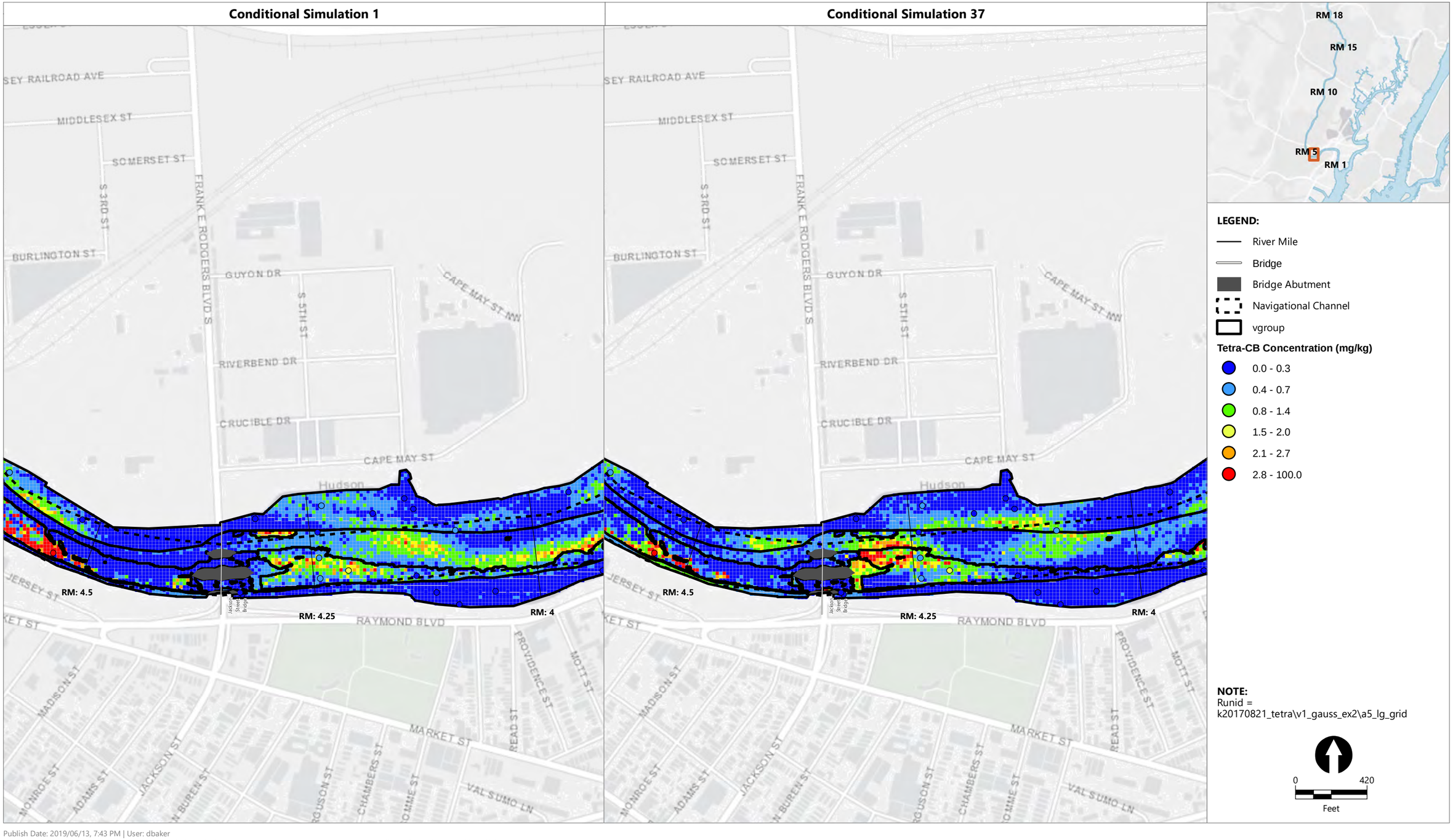
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Figure 7-2r
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



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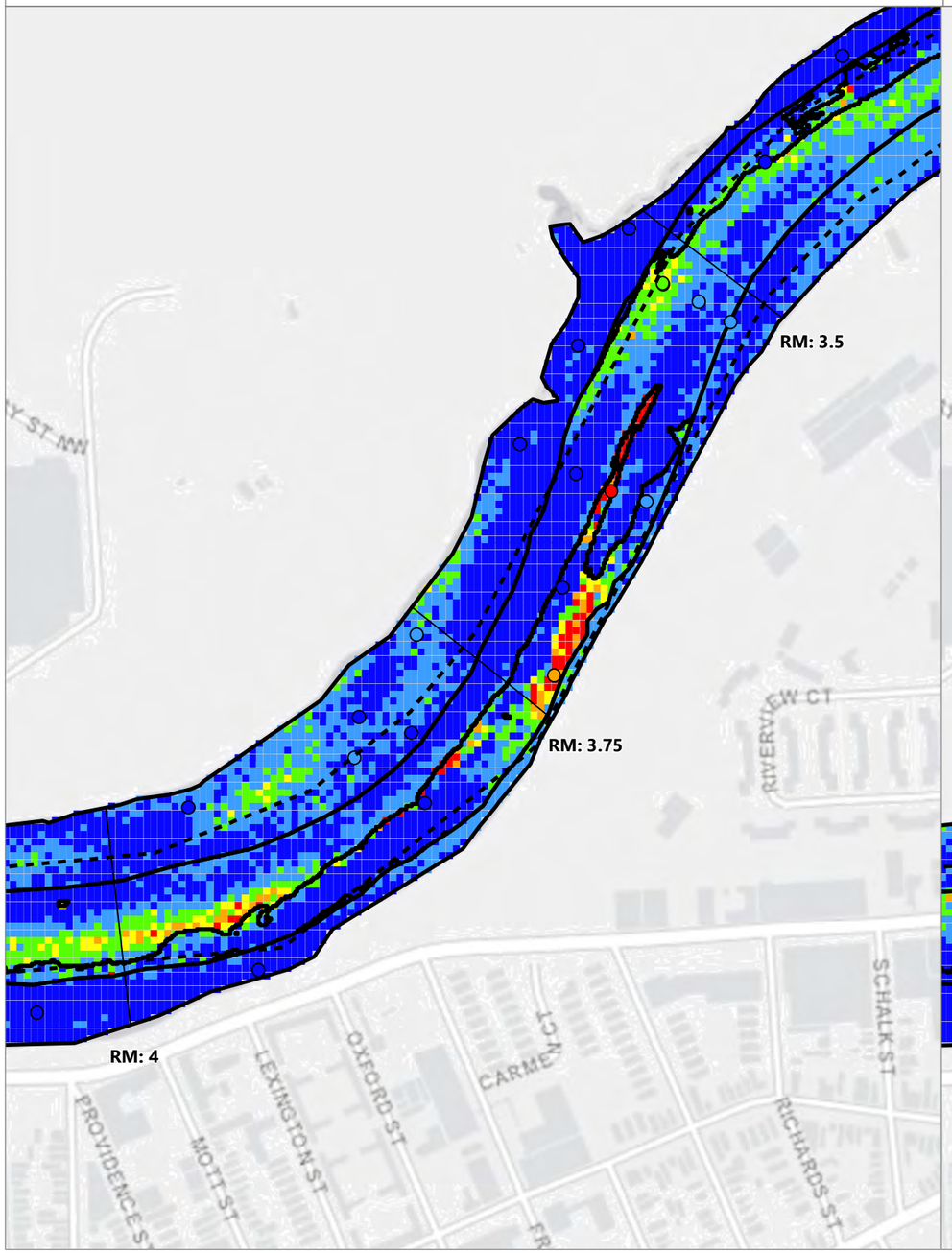
Figure 7-2s
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



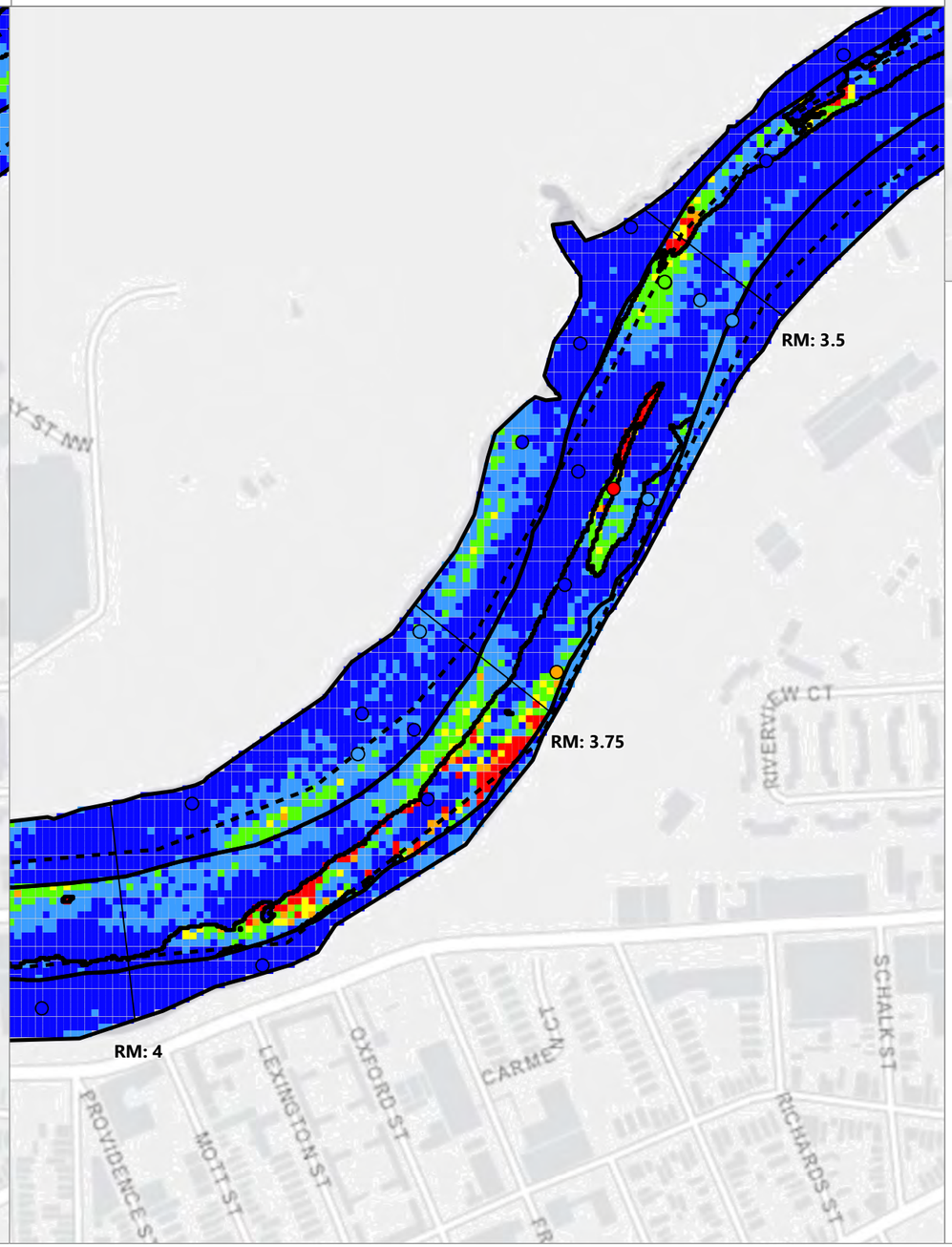
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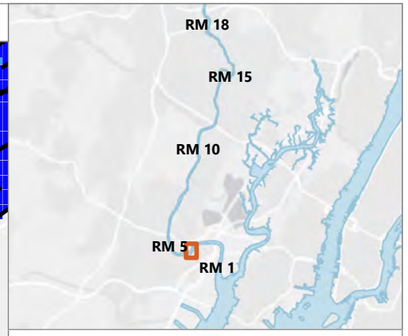
Figure 7-2t
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

Conditional Simulation 1



Conditional Simulation 37





LEGEND:

- River Mile
- Bridge
- Navigational Channel
- vgroup

Tetra-CB Concentration (mg/kg)

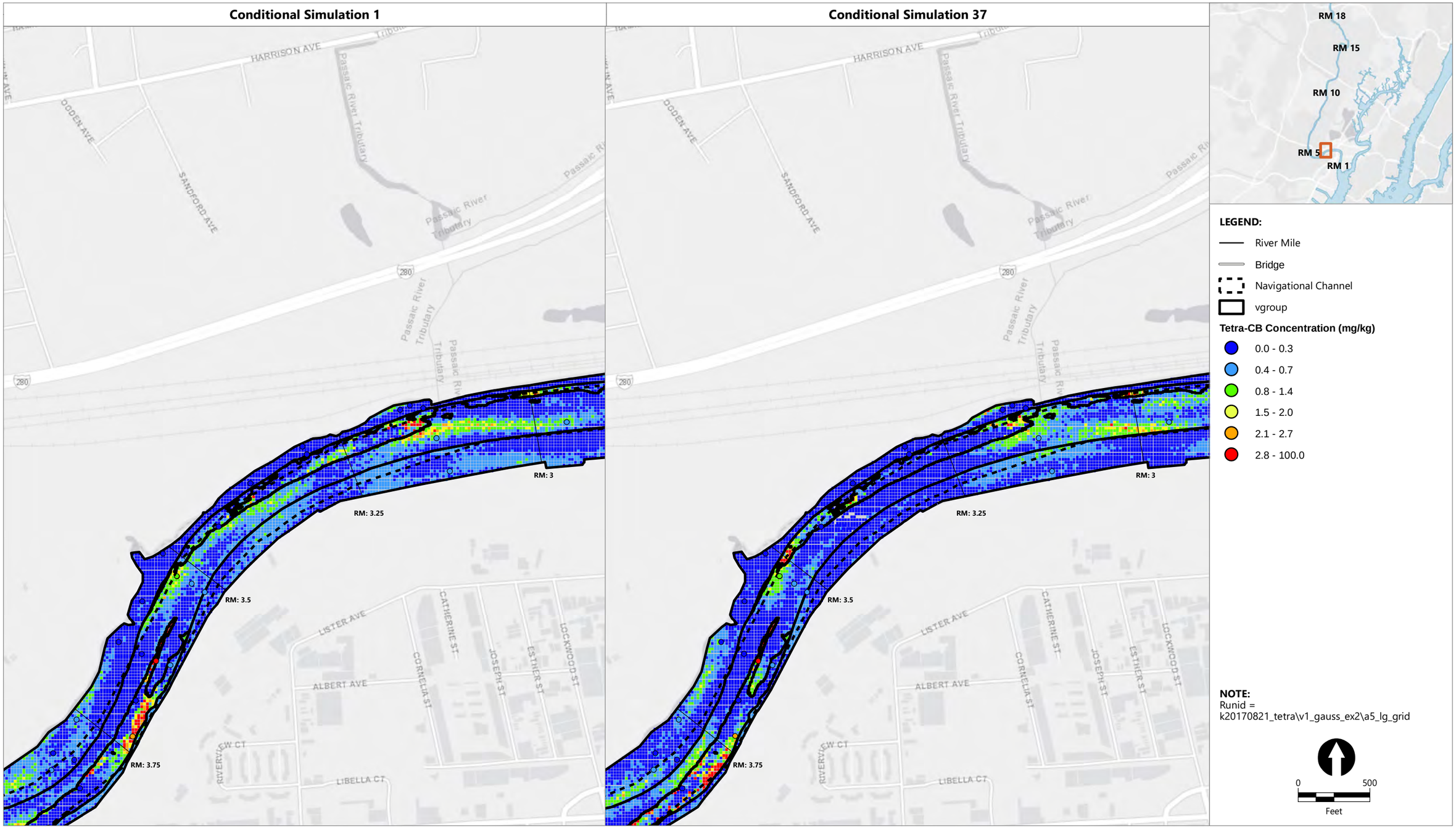
- 0.0 - 0.3
- 0.4 - 0.7
- 0.8 - 1.4
- 1.5 - 2.0
- 2.1 - 2.7
- 2.8 - 100.0

NOTE:
Runid = k20170821_tetra\v1_gauss_ex2\a5_lg_grid

0 320
Feet

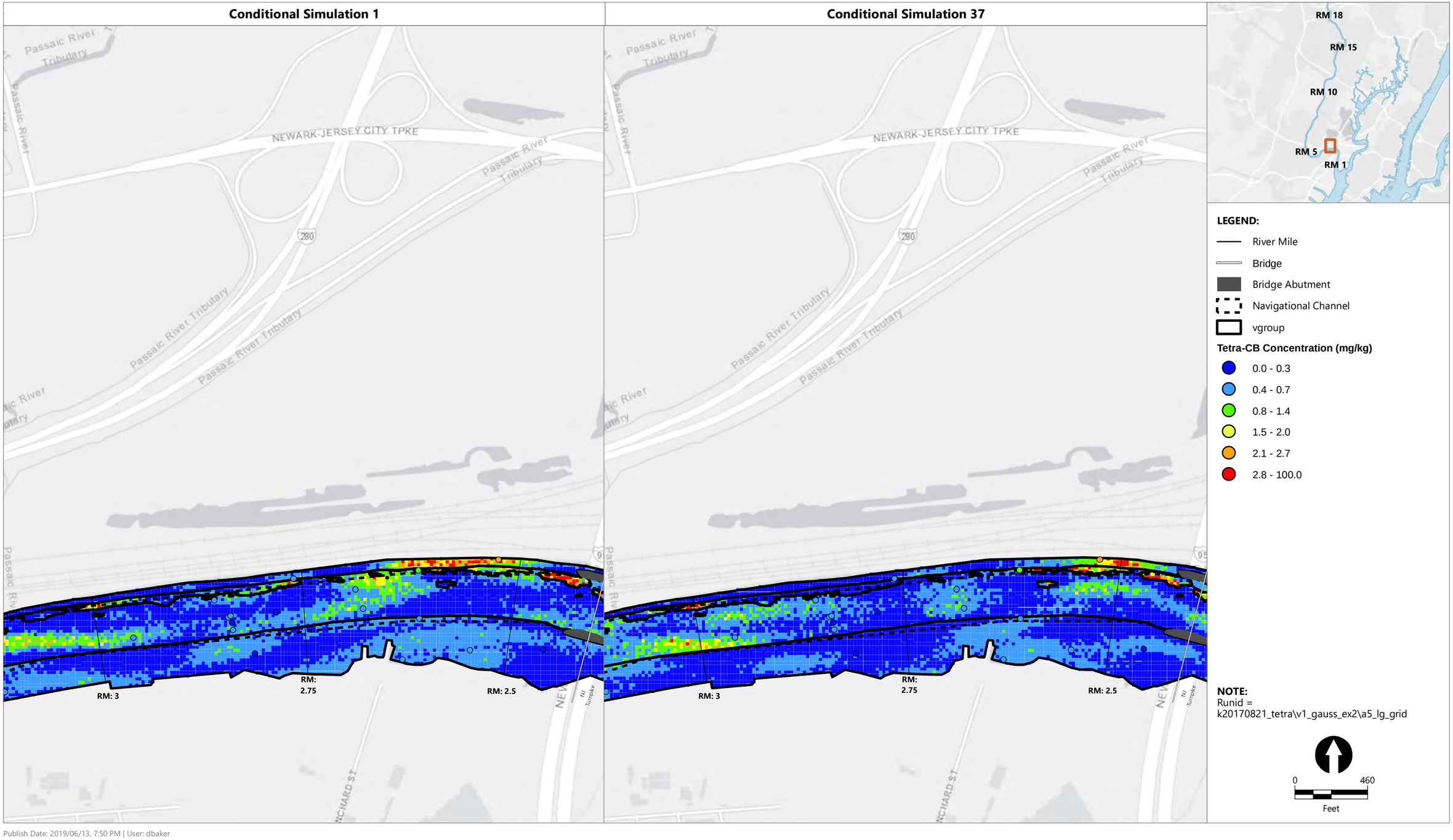
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Figure 7-2u
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



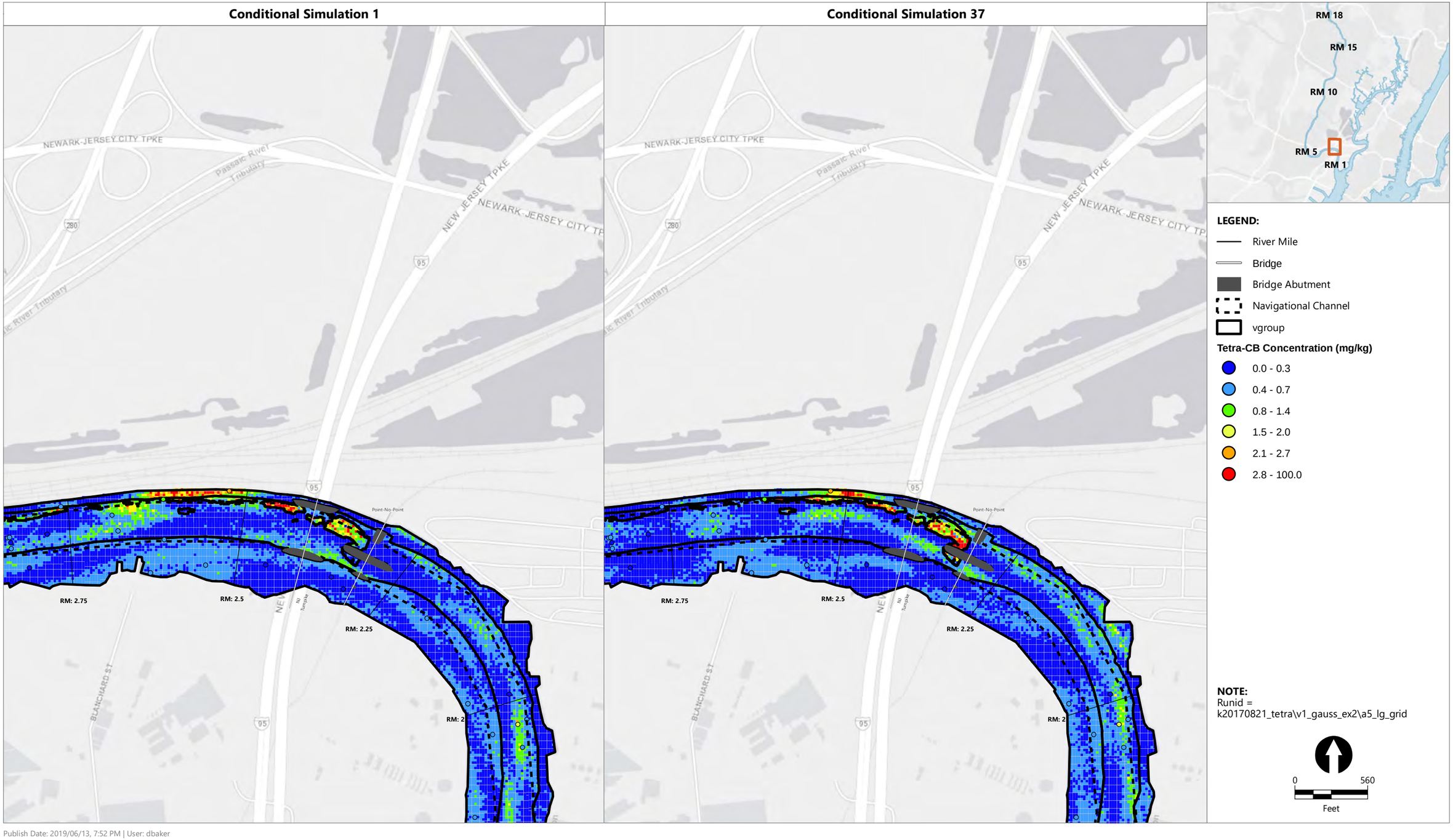
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Figure 7-2v
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



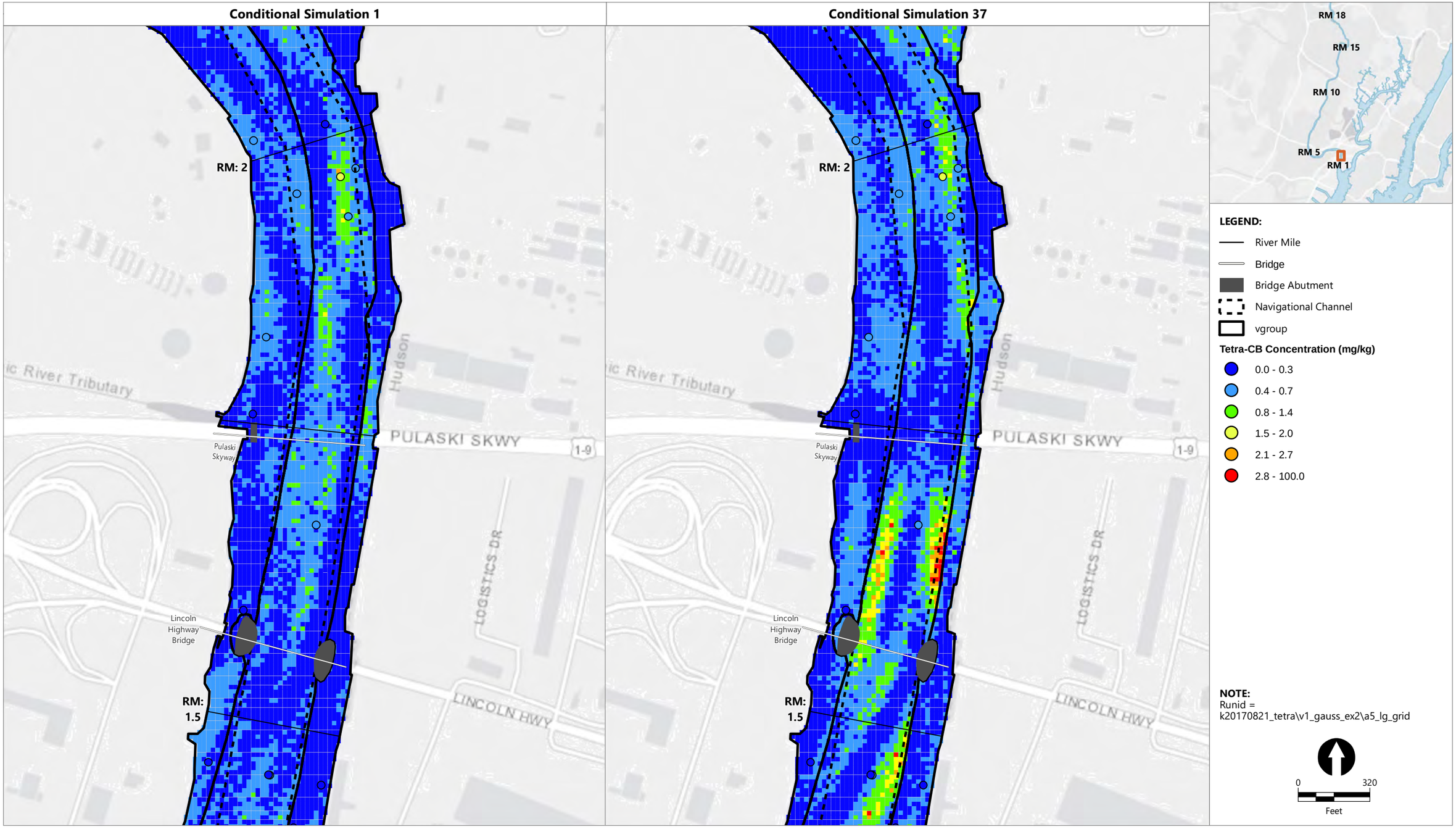
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Figure 7-2w
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



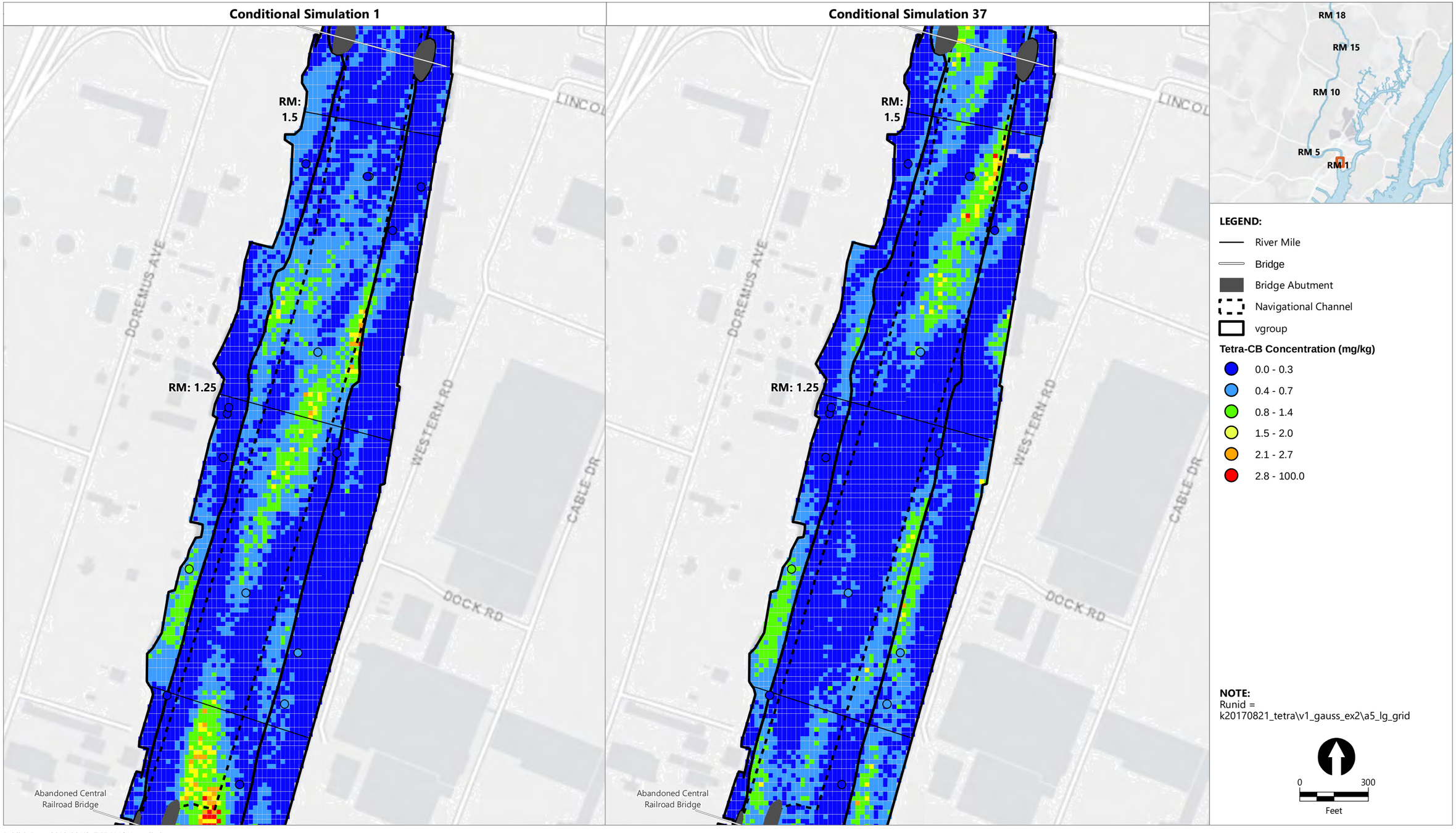
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Figure 7-2x
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



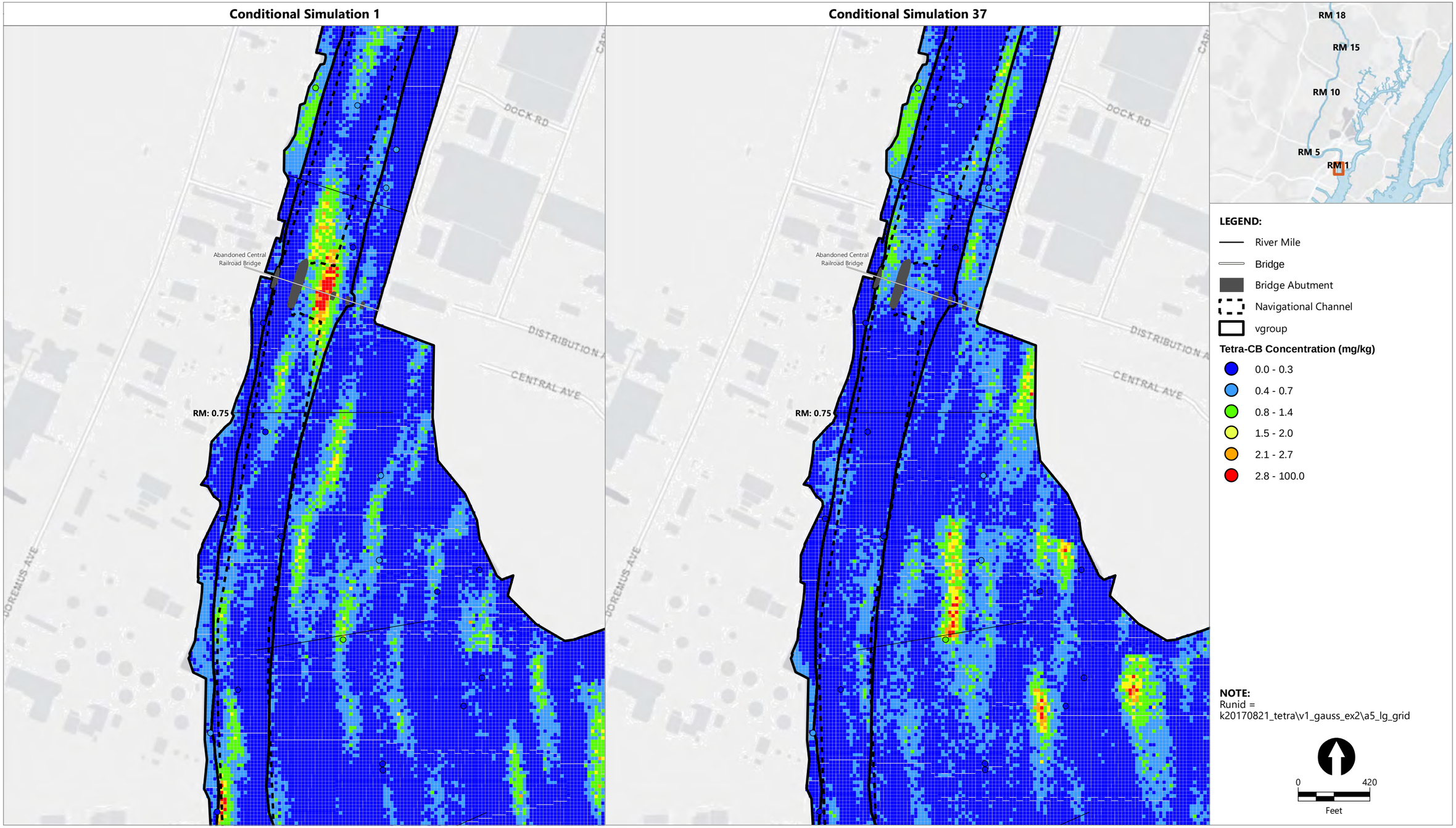
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Figure 7-2y
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



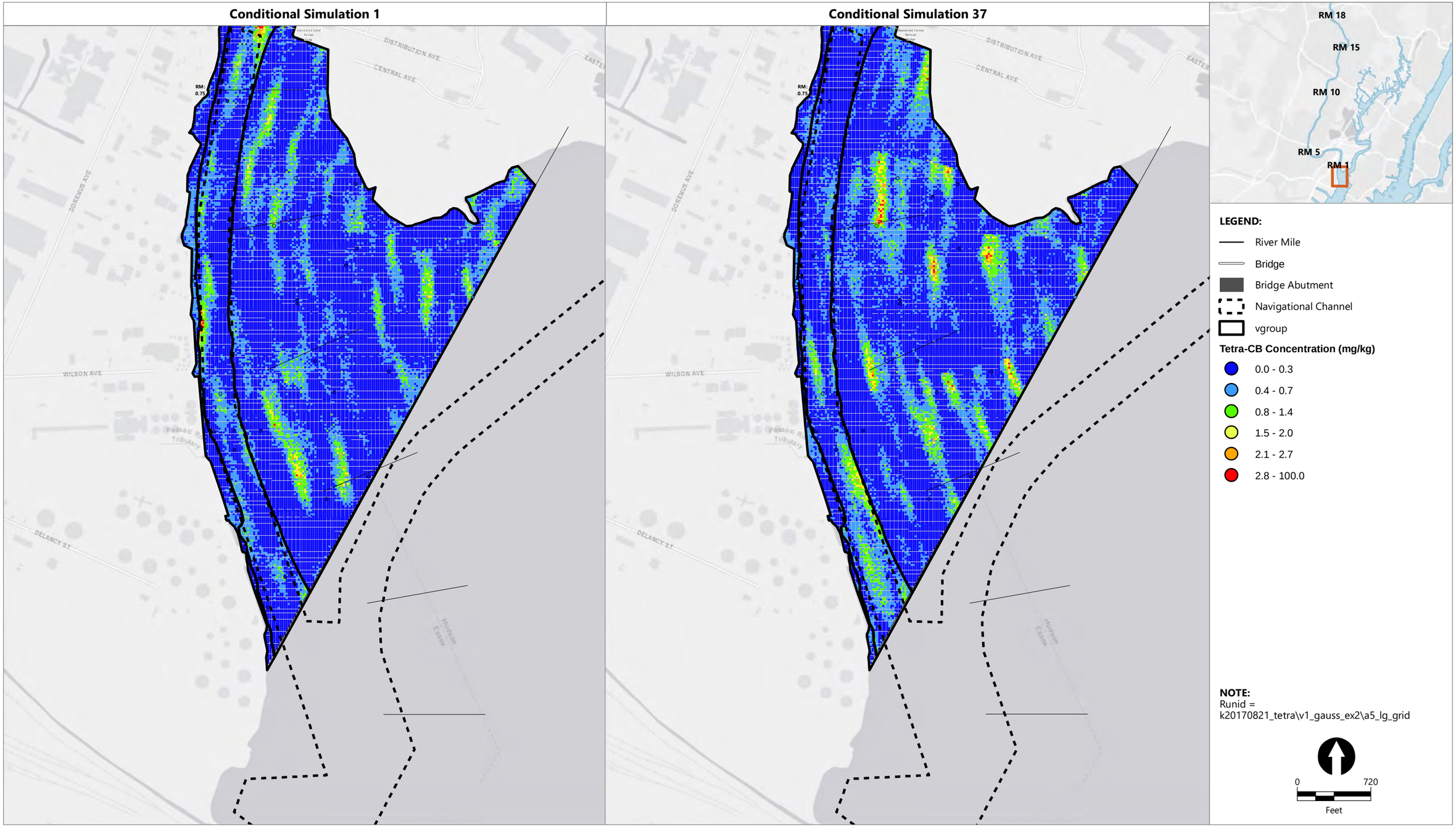
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Figure 7-2z
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



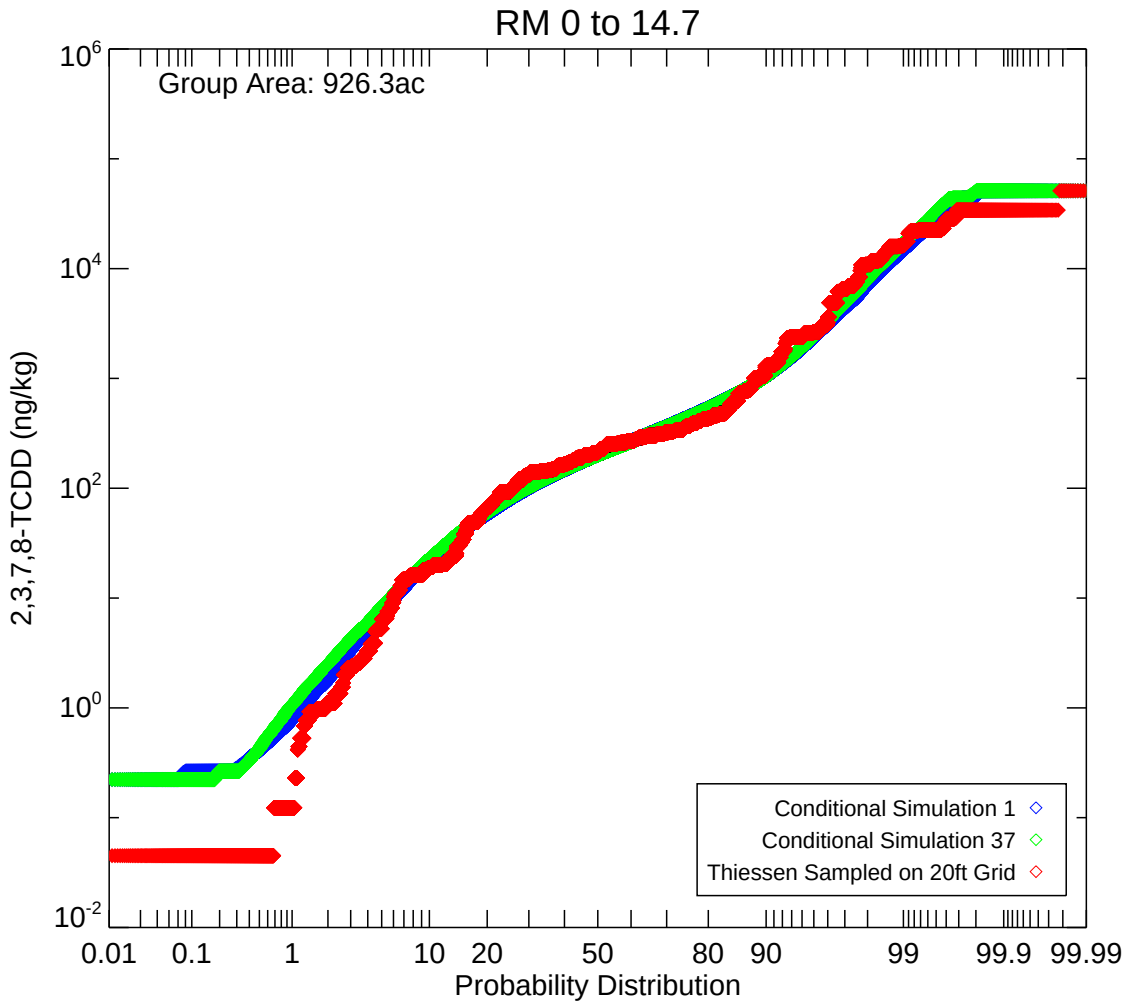
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Figure 7-2aa
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study



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Figure 7-2ab
Sample Tetra-CB Conditional Simulation Output (on 20-foot Grid; Capped and Back-Transformed)
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study

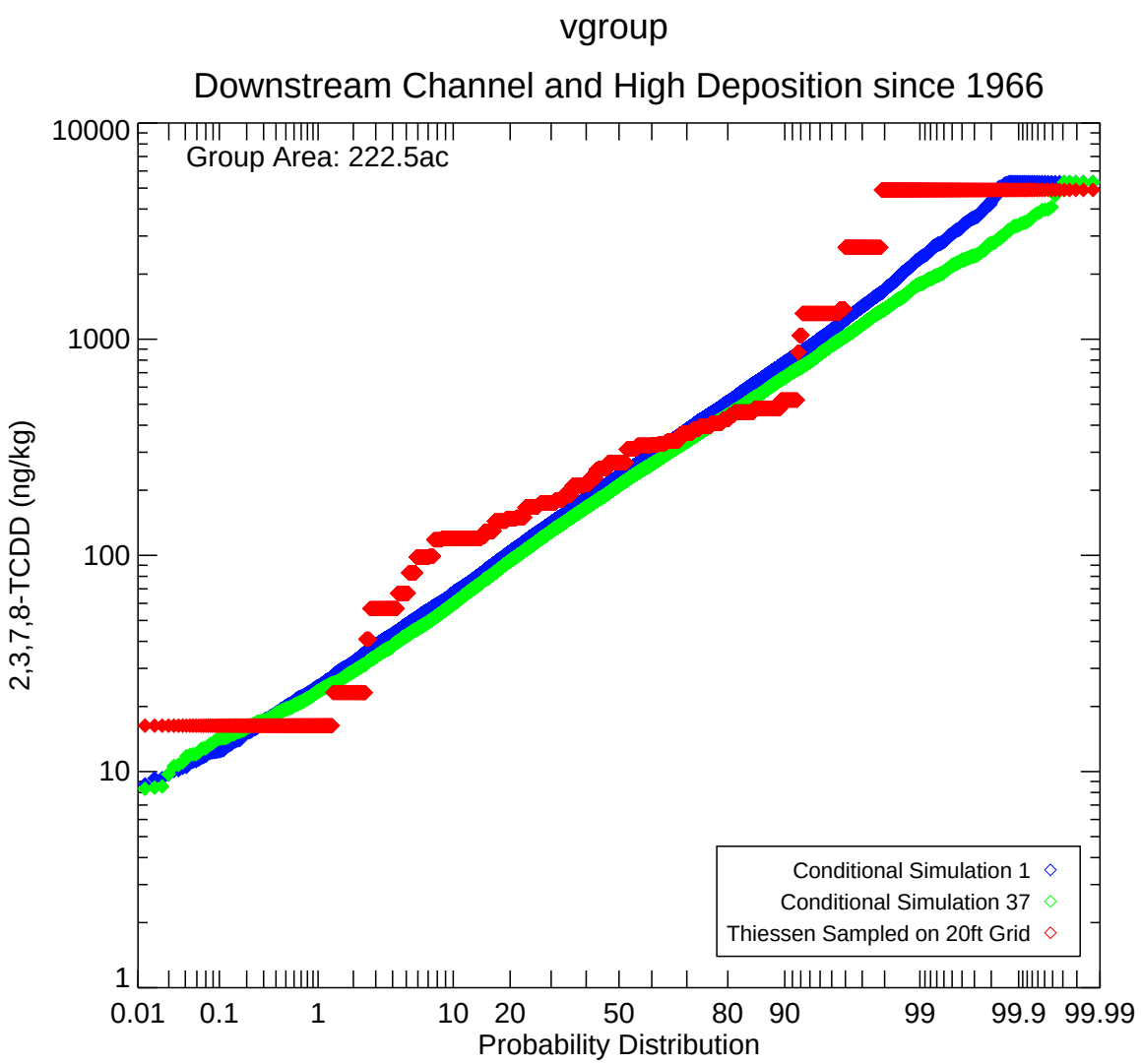


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Figure 7-3a

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

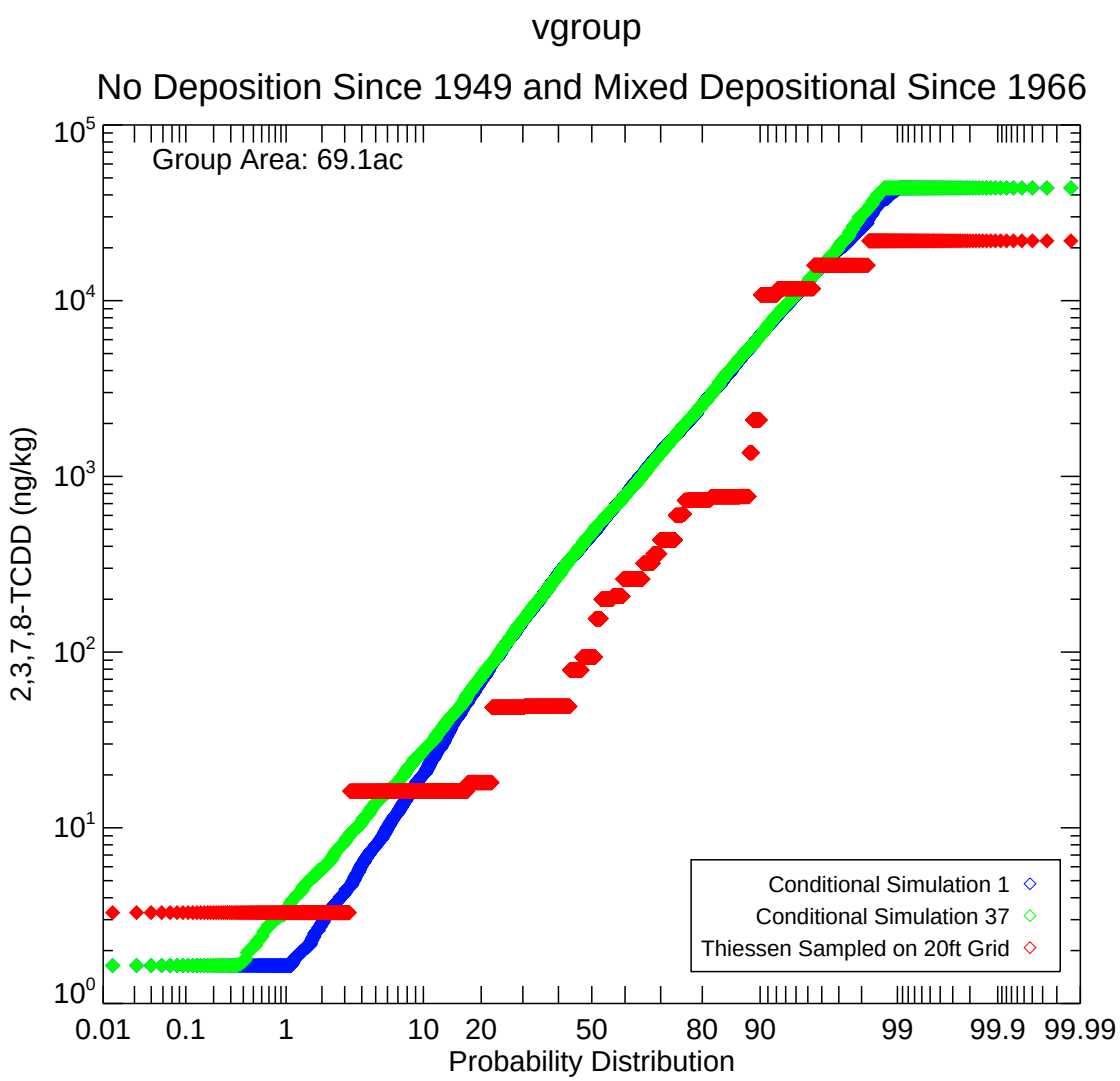


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Figure 7-3b

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

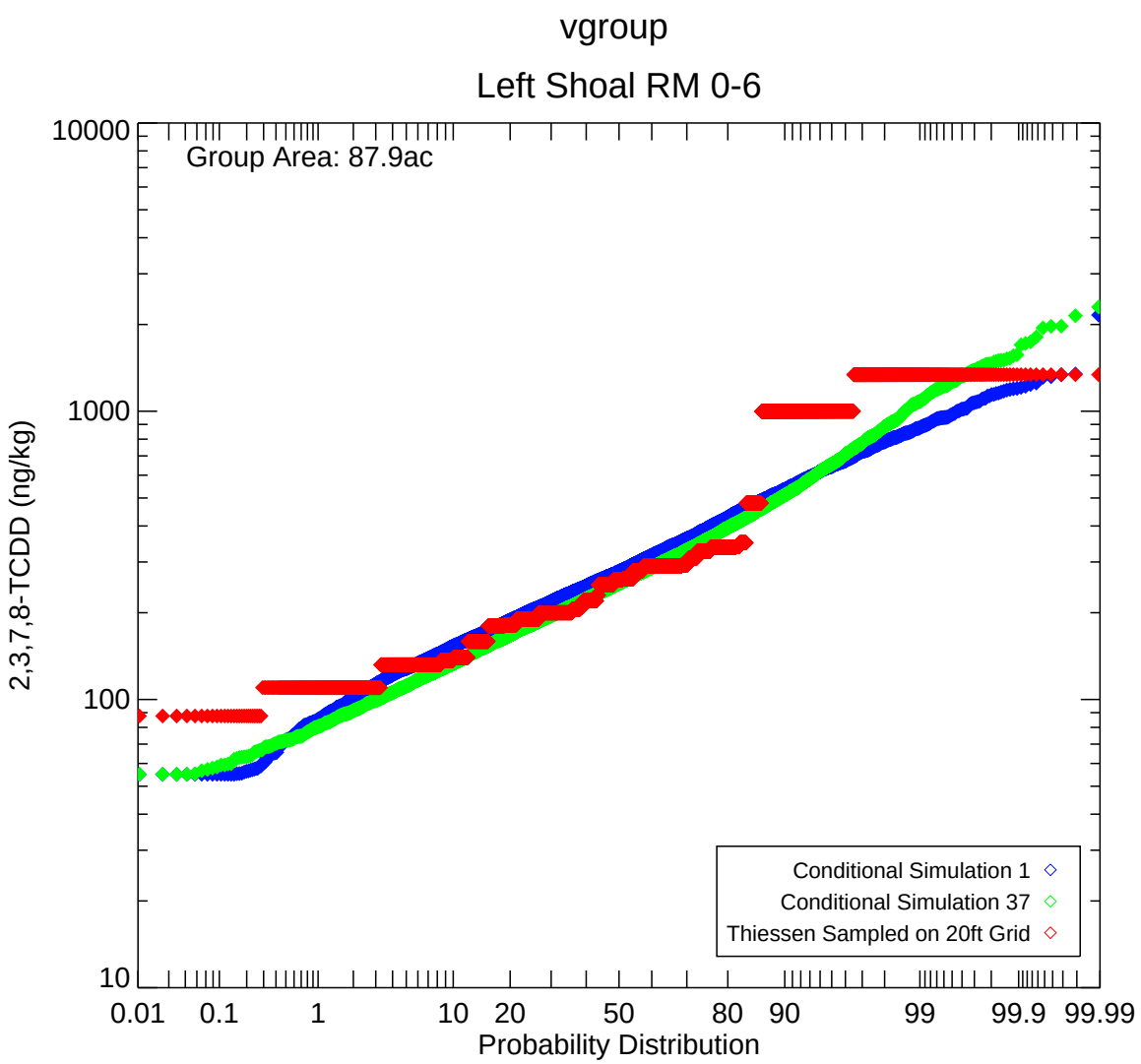


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Figure 7-3c

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

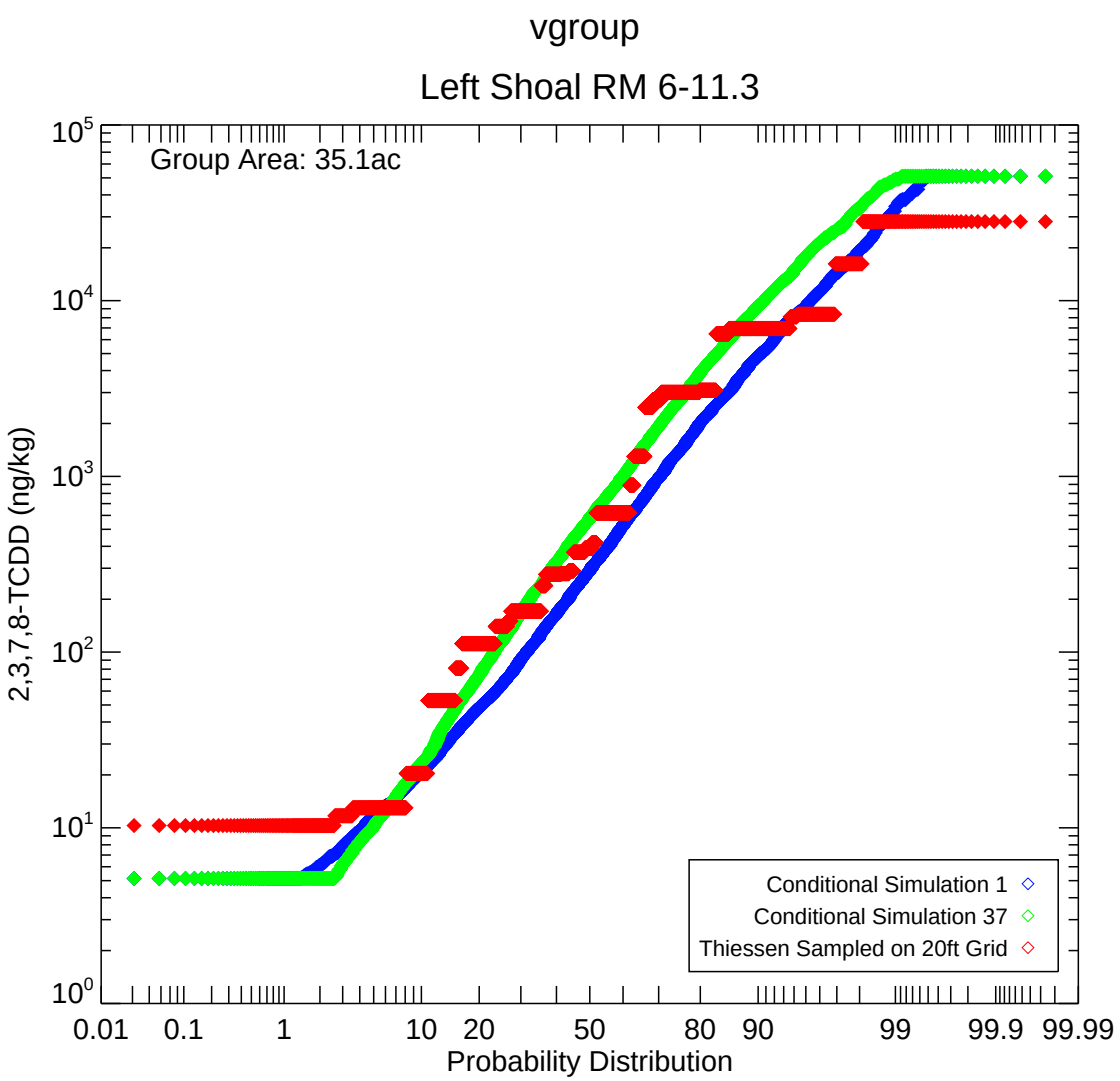


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Figure 7-3d

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

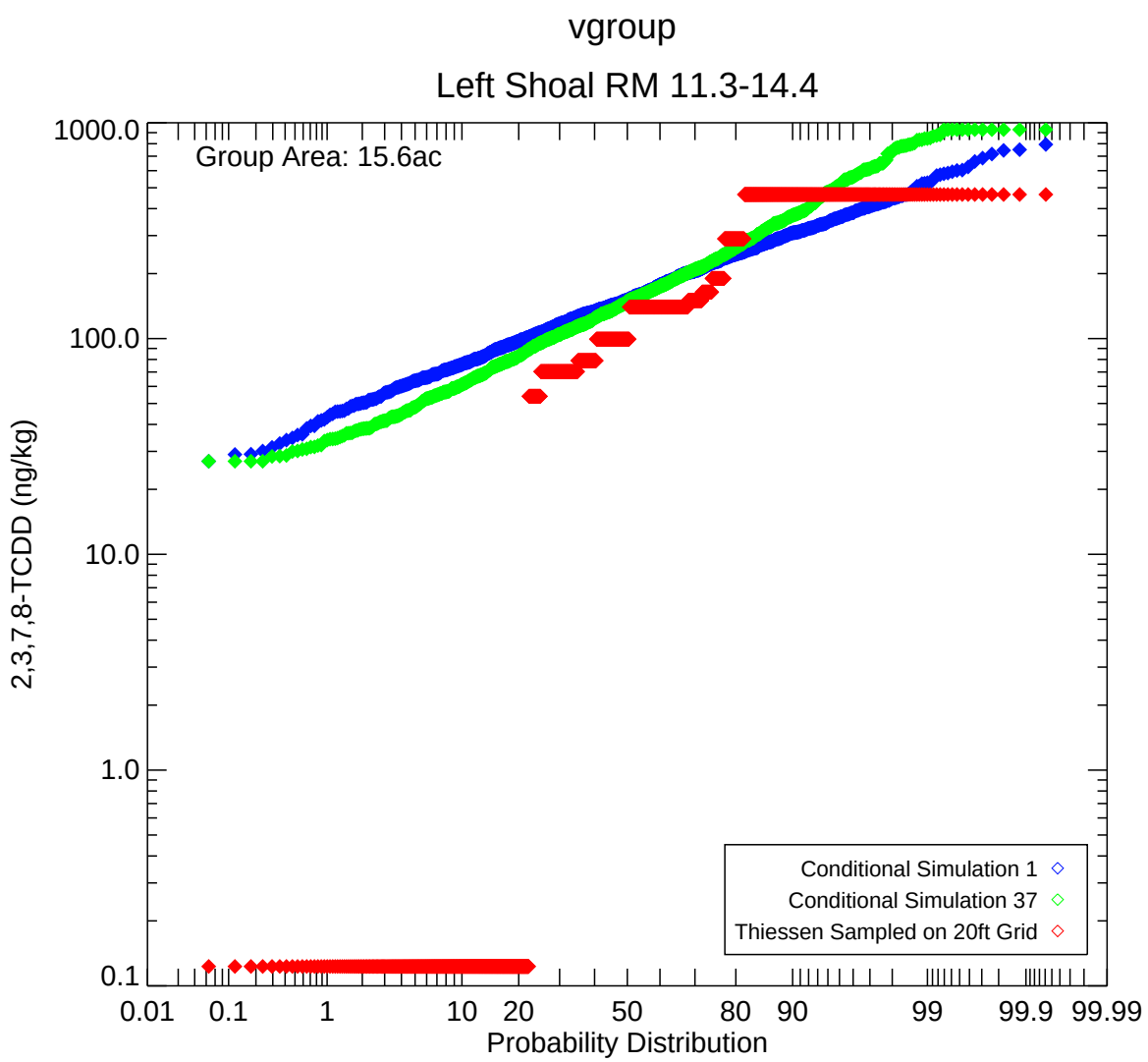


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Figure 7-3e

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

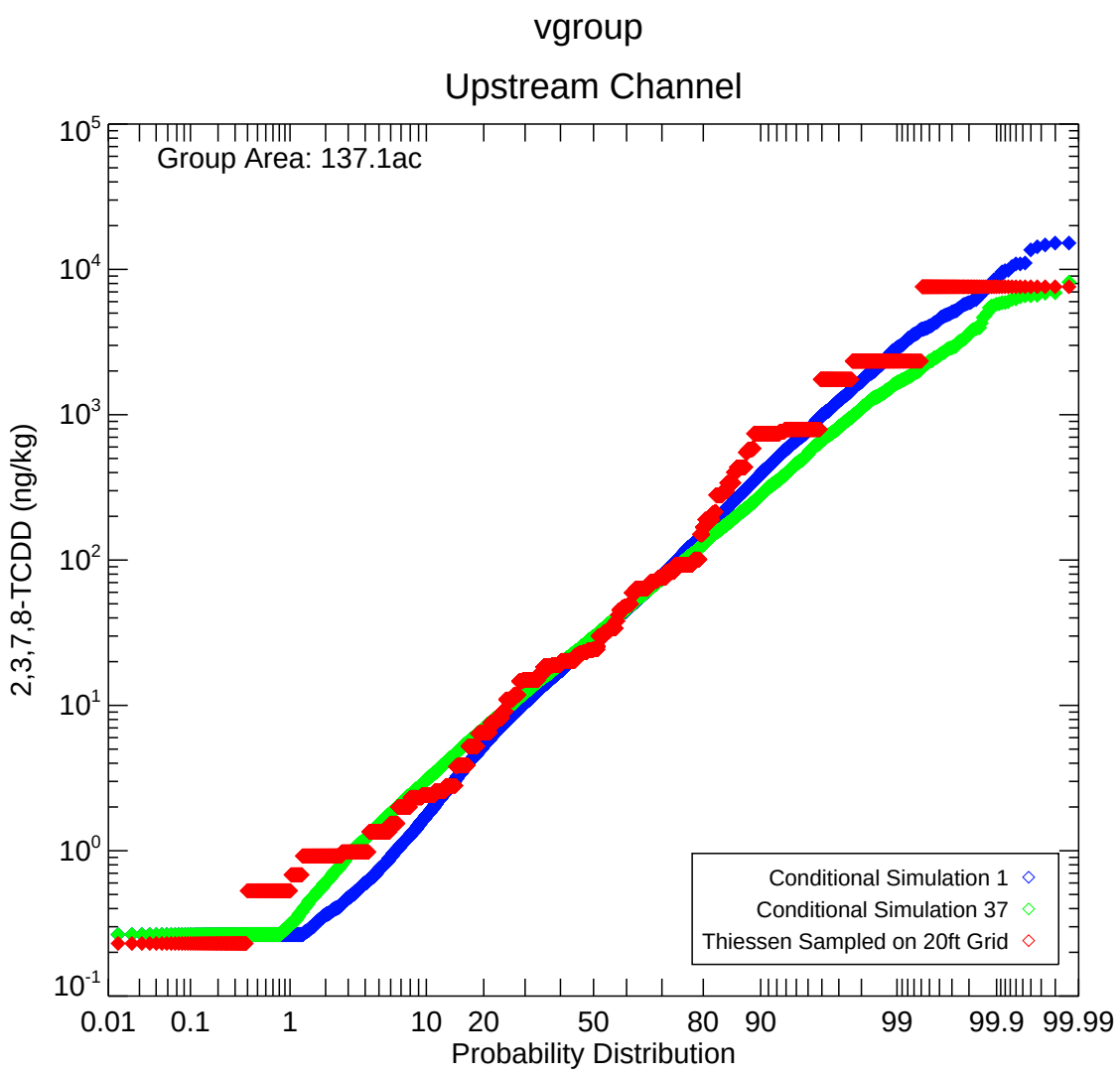


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Figure 7-3f

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

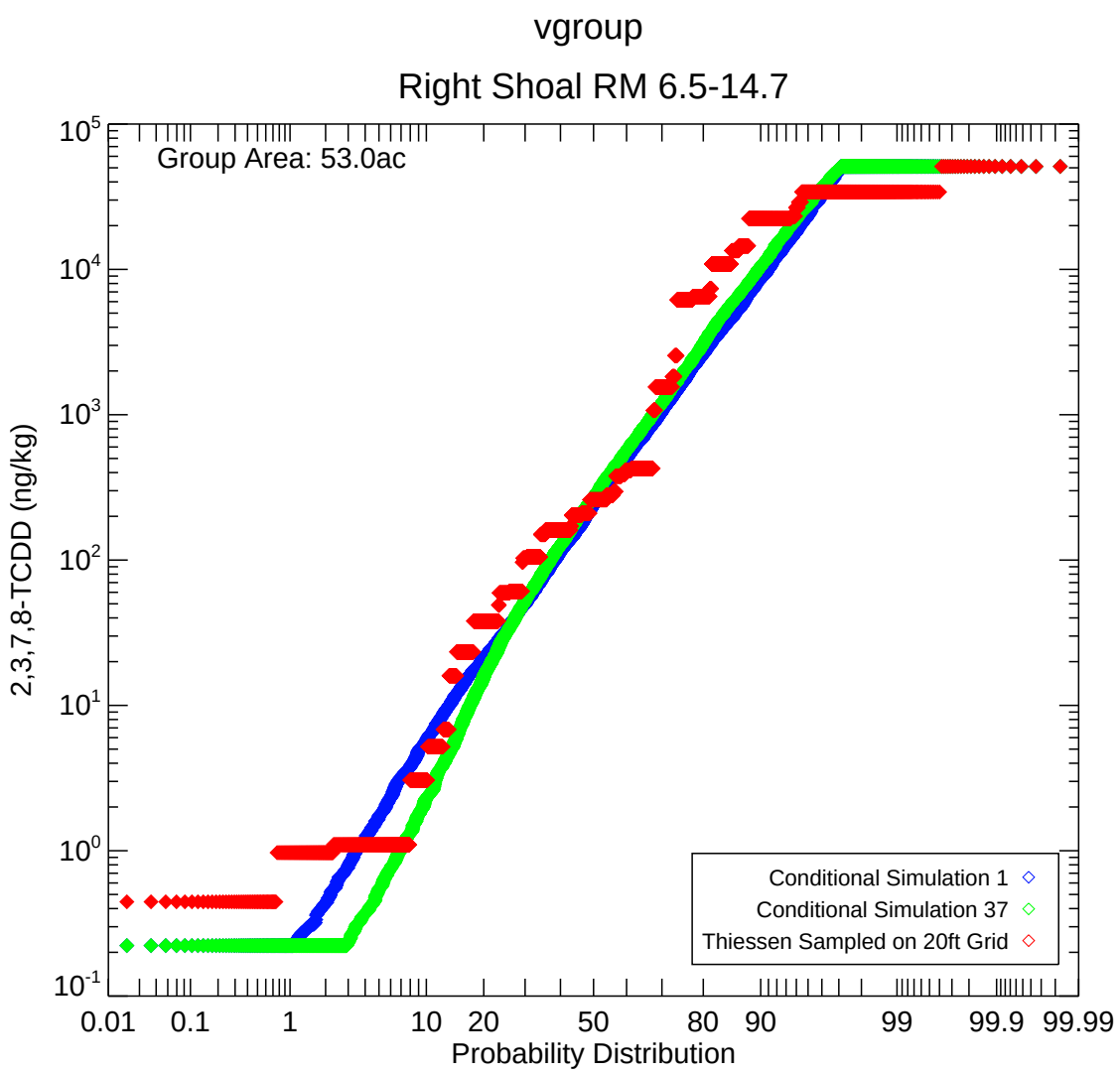


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Figure 7-3g

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

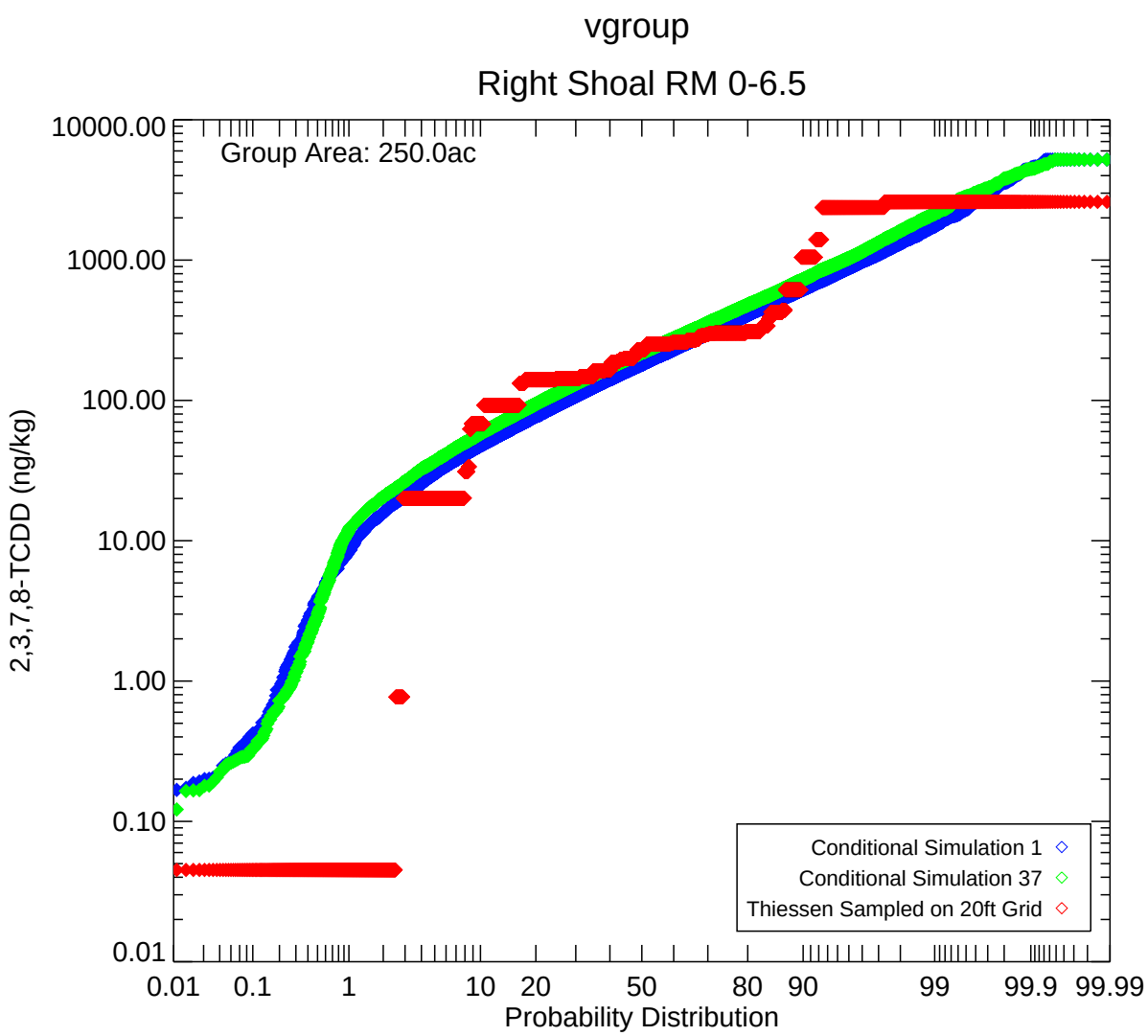


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Figure 7-3h

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

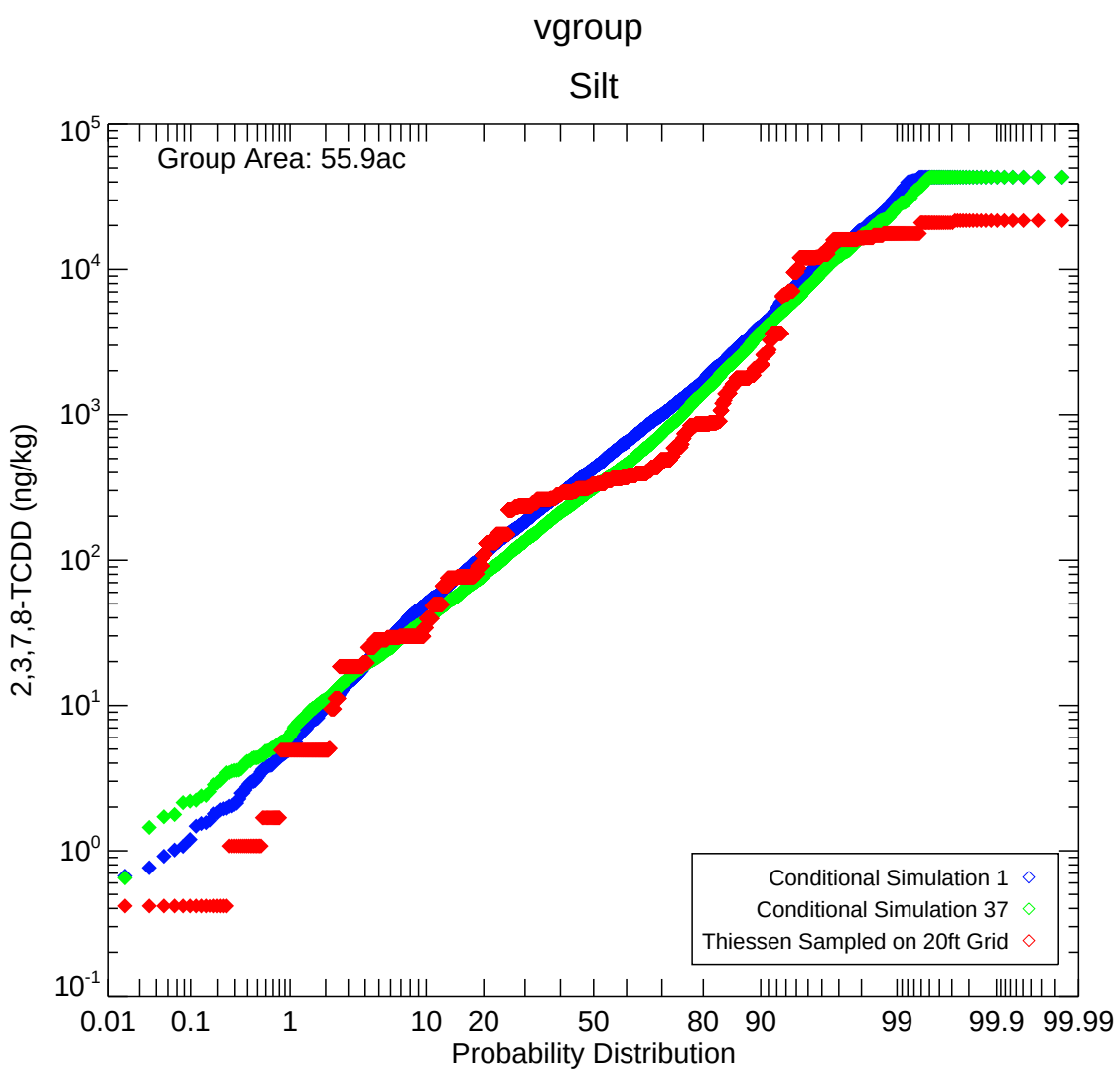


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Figure 7-3i

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

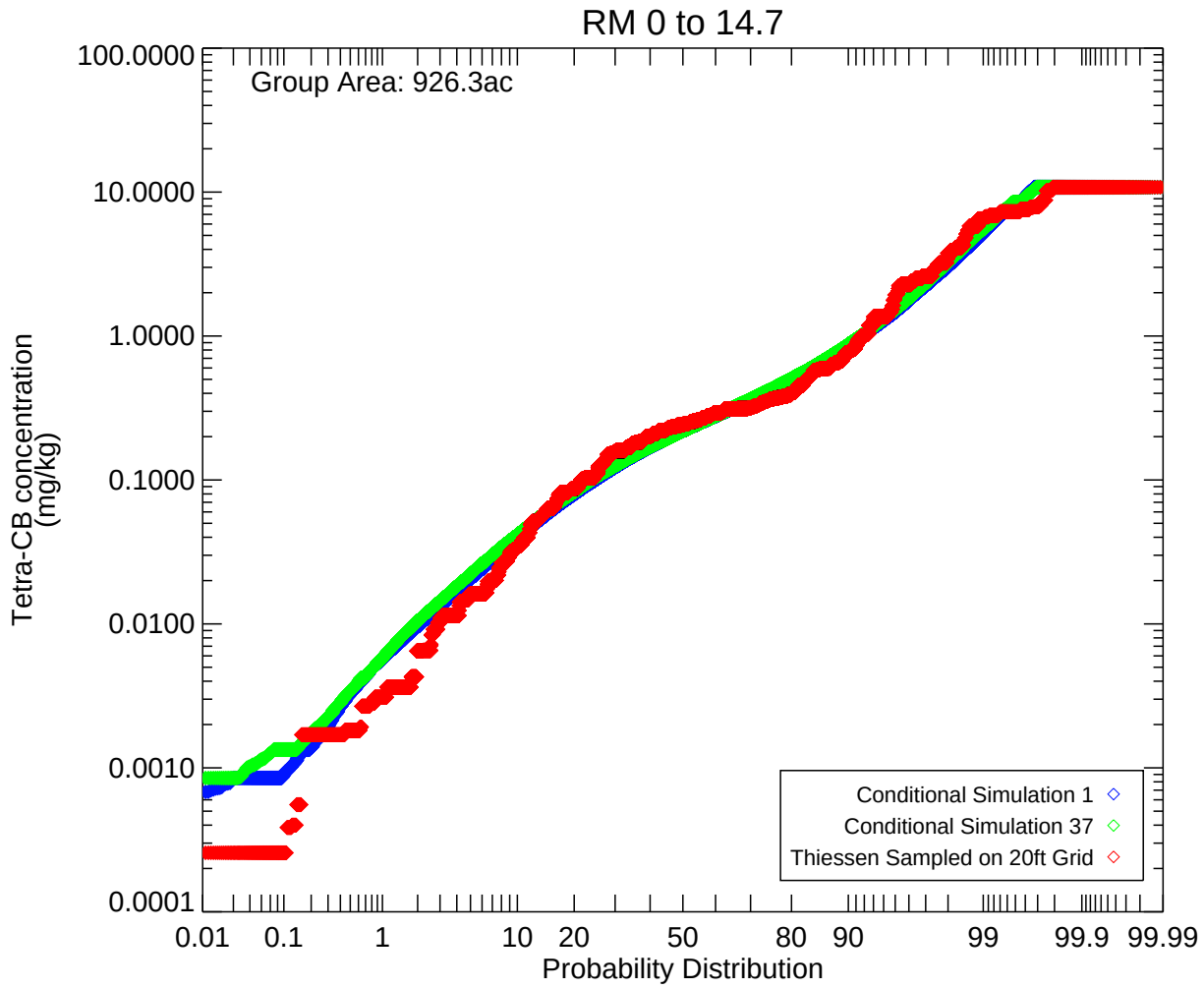


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Figure 7-3j

Comparison of 2,3,7,8-TCDD Simulation Results and De-clustered Data (Thiessen polygons)

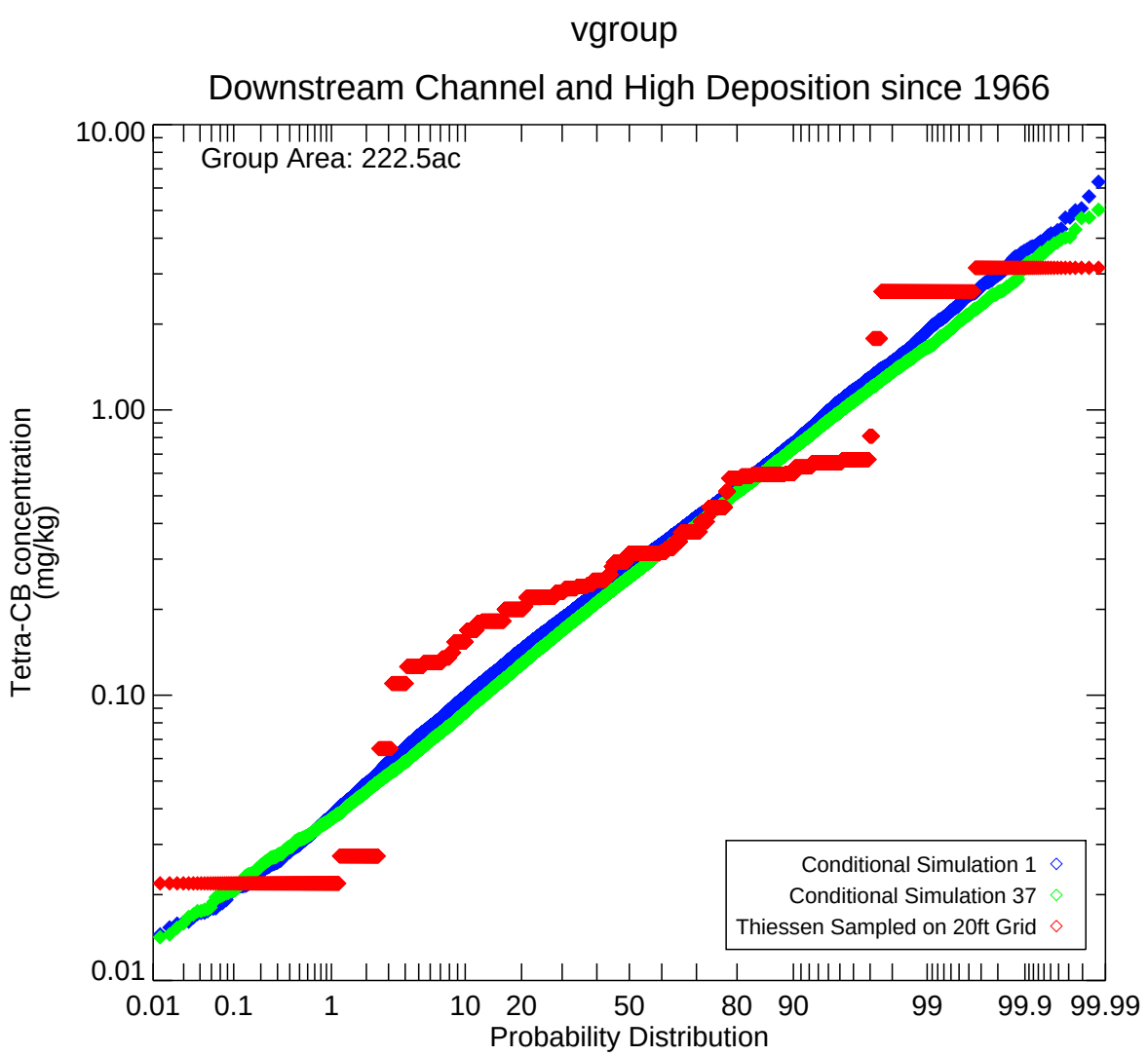


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Figure 7-4a

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

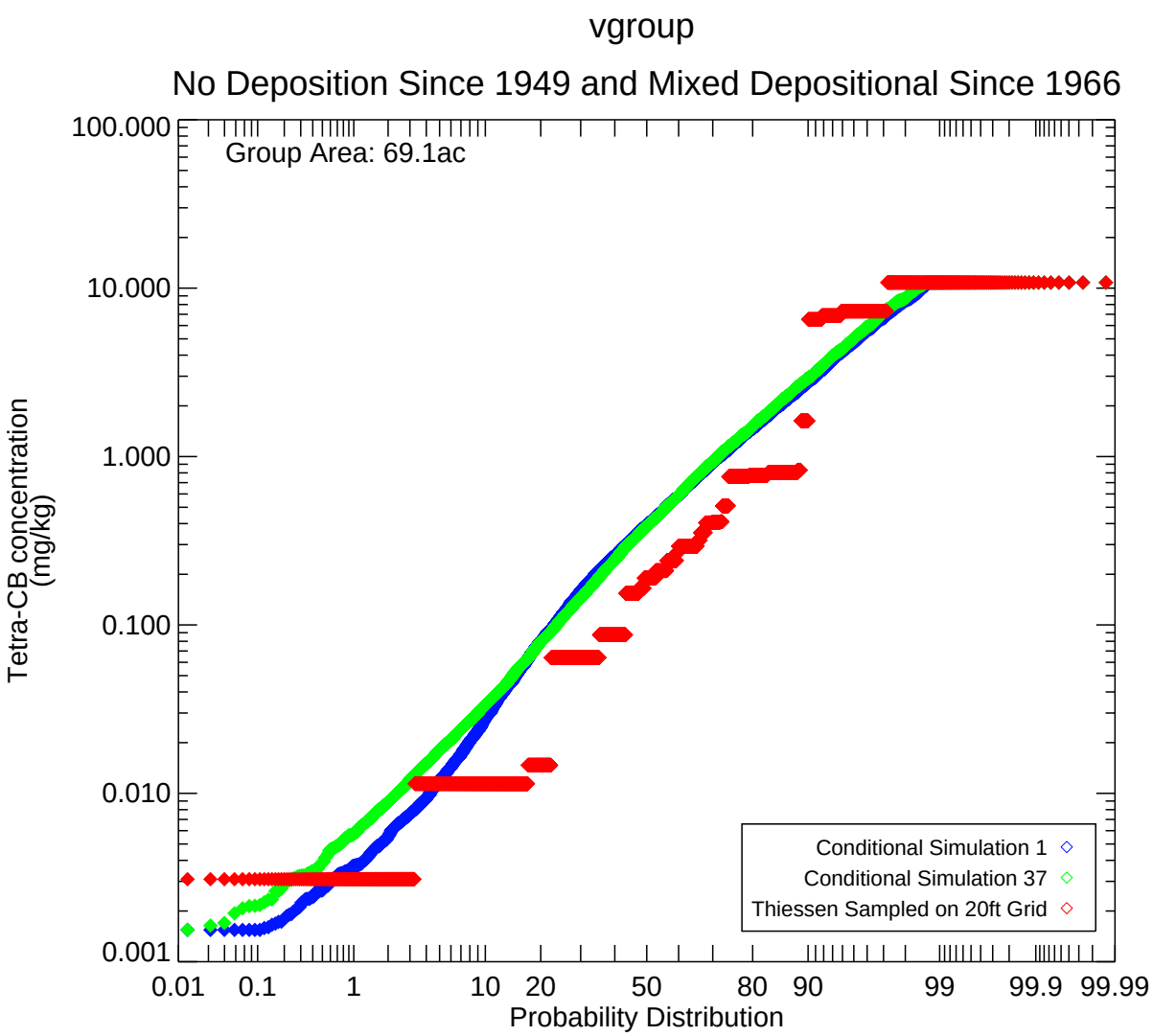


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Figure 7-4b

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

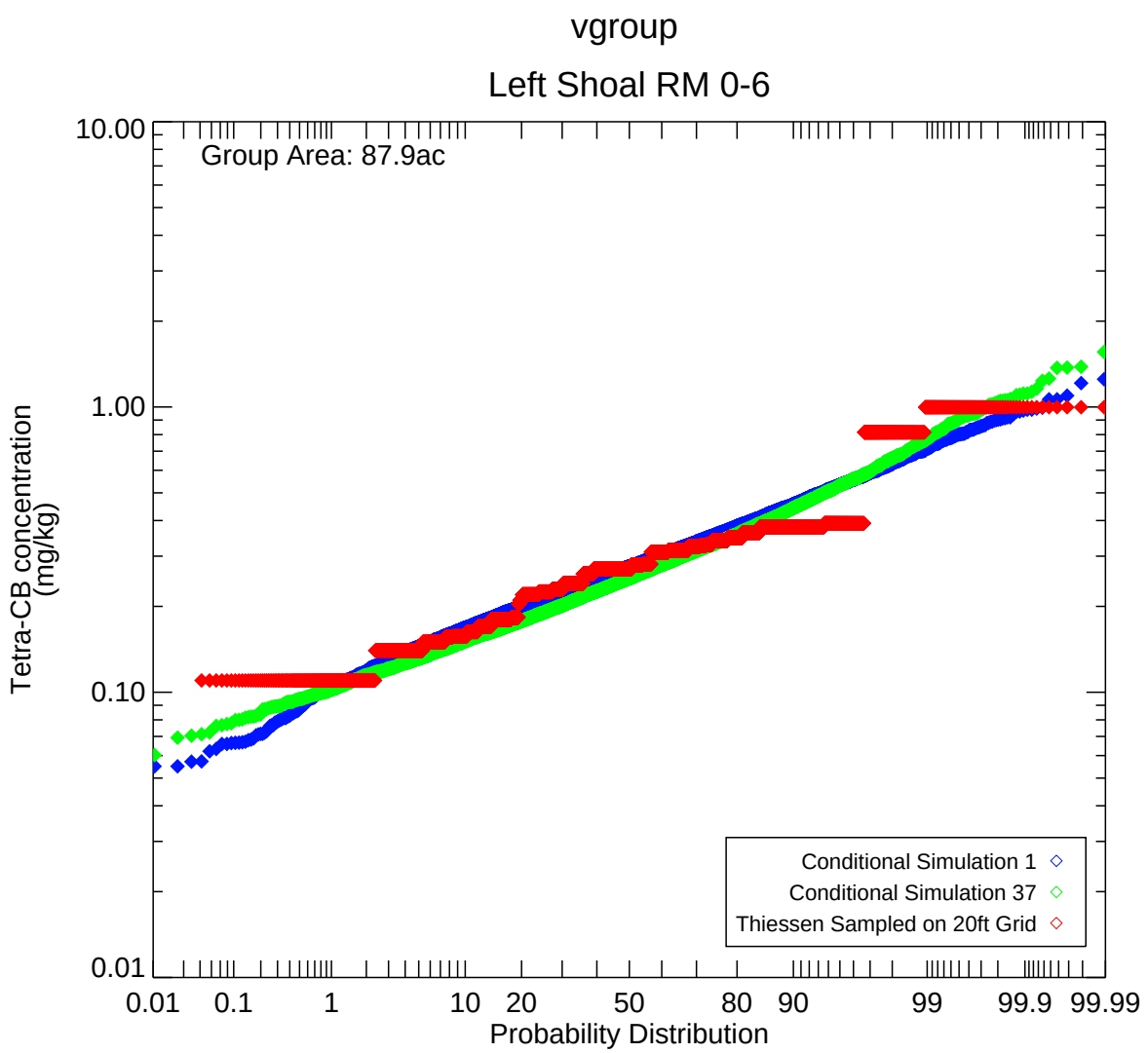


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Figure 7-4c

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

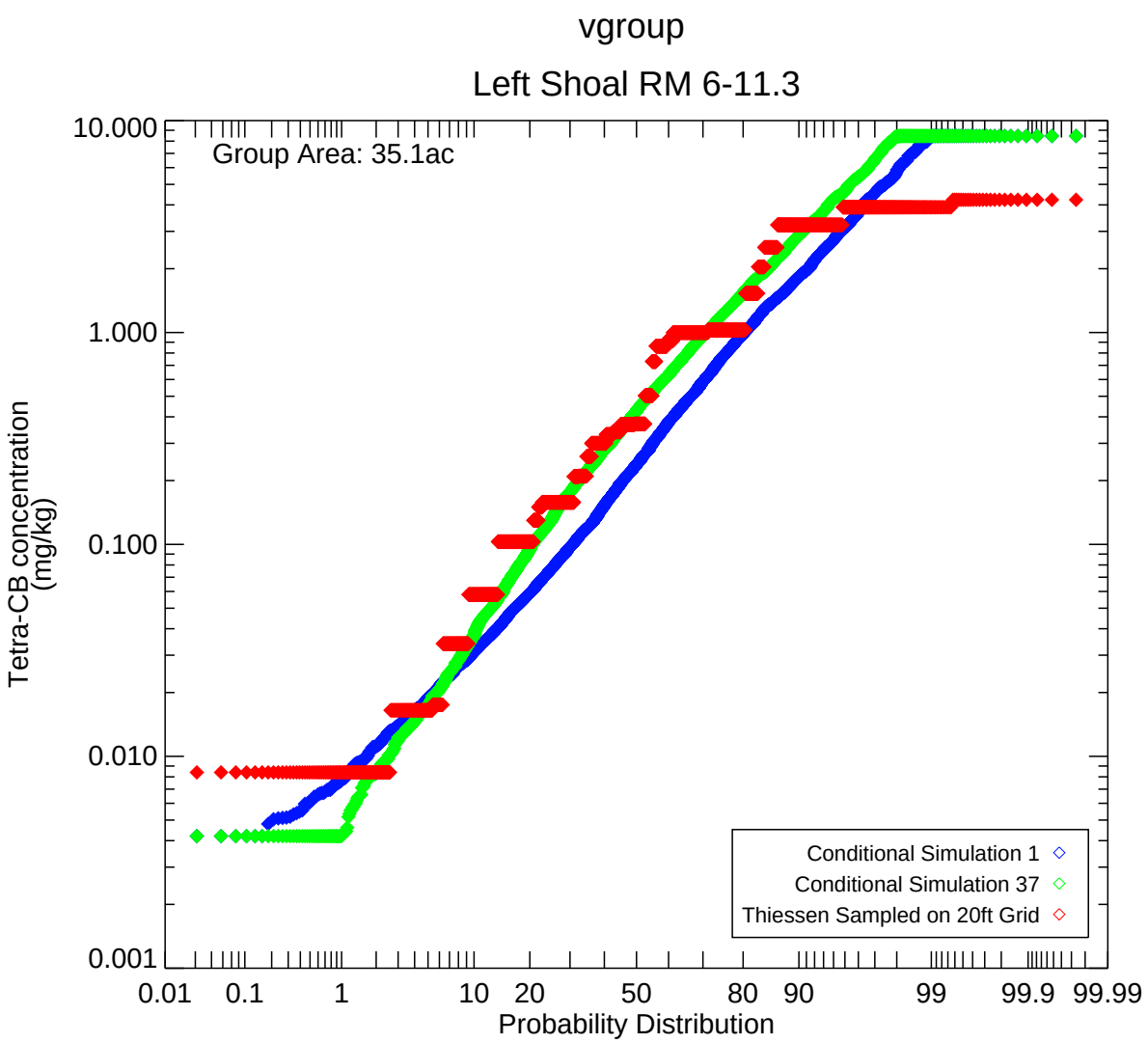


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Figure 7-4d

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

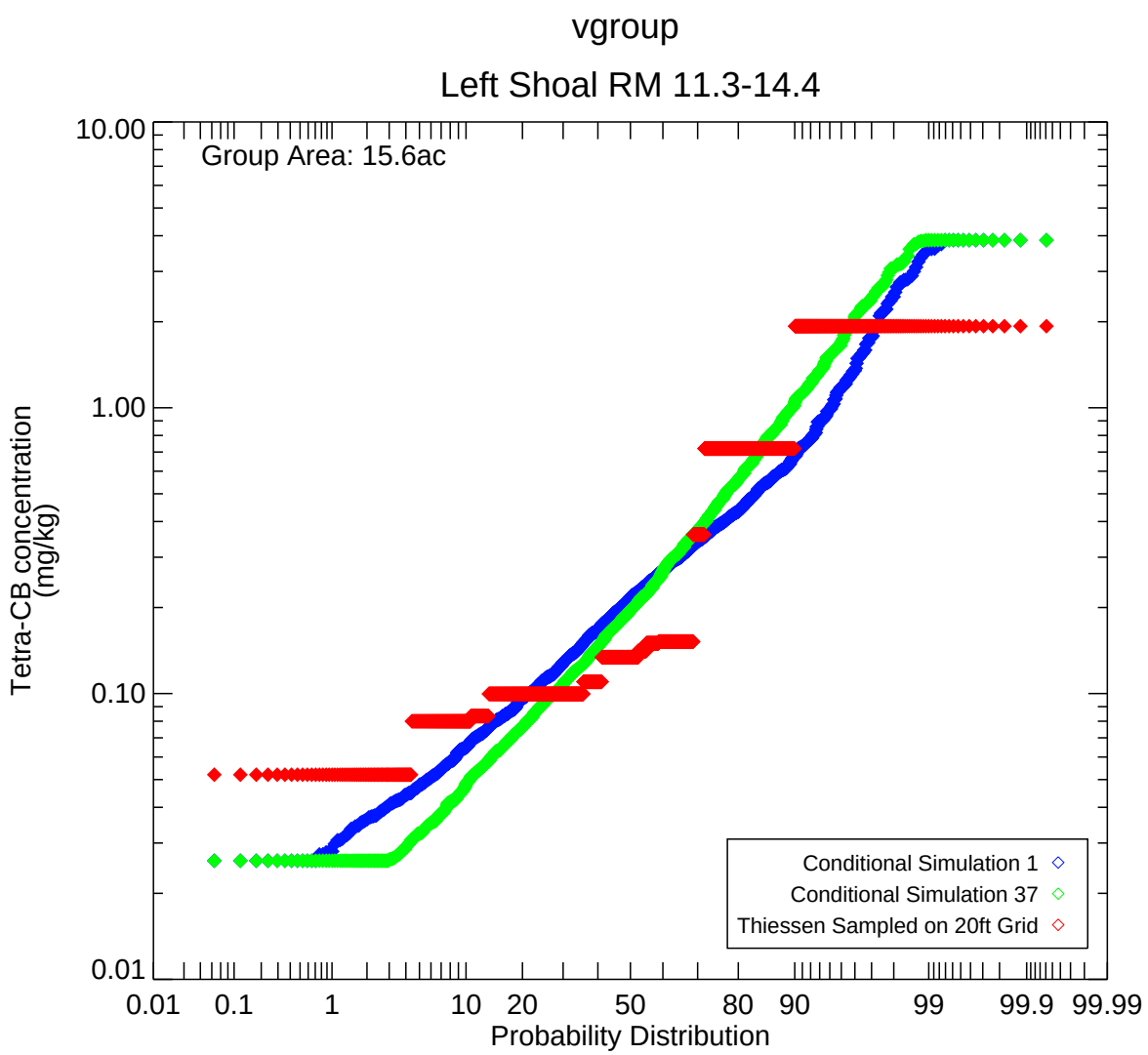


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Figure 7-4e

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

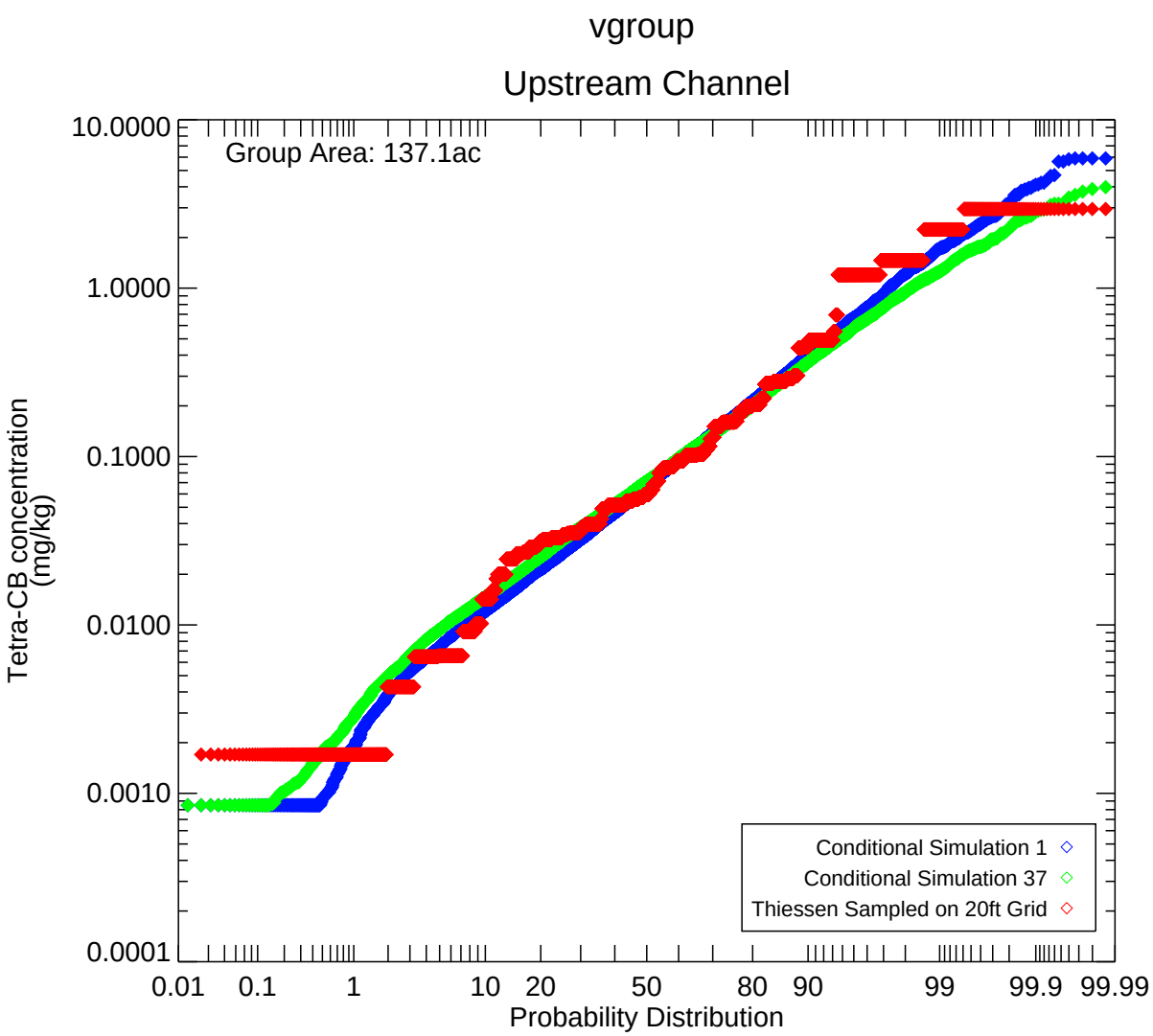


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Figure 7-4f

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

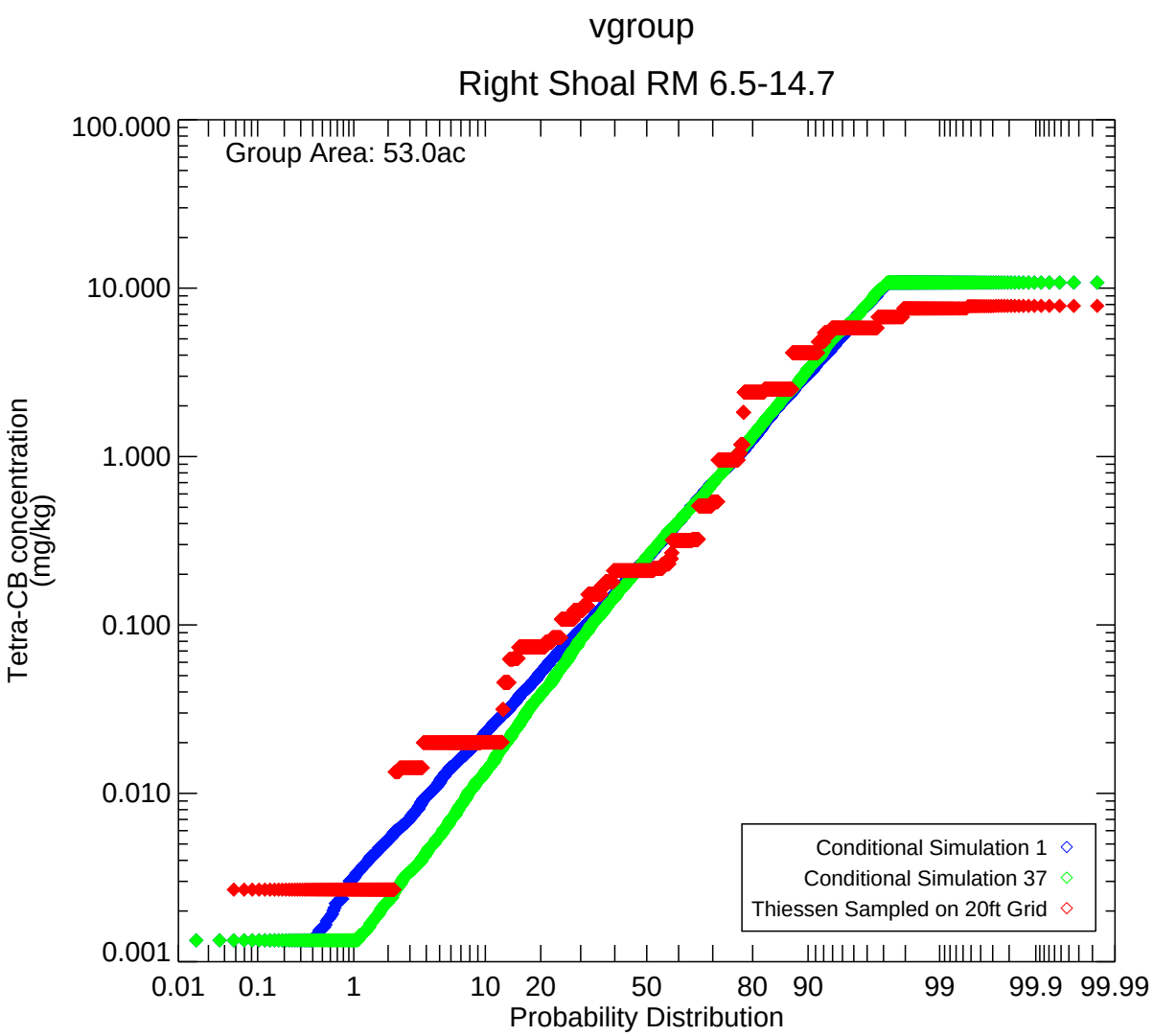


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Figure 7-4g

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

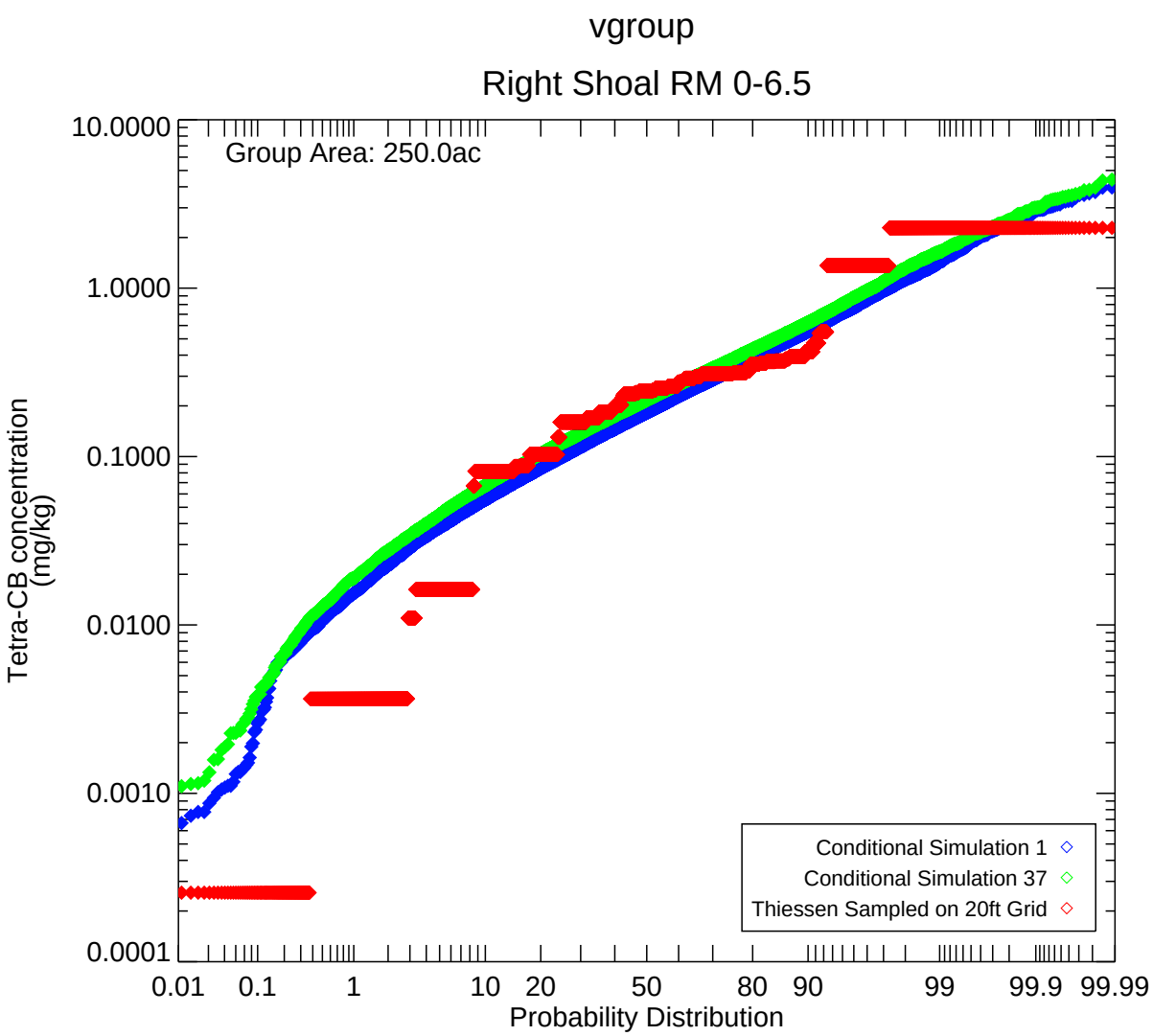


Analysis extent RM 0-14.7.
Run ID: k20170821_tetra/v1_gauss_ex2/a5_lg_grid

Publish Date: 06/19/2019 14:40 | User: GD/CH/EP
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_4_probplot_CS_Thies.pro

Figure 7-4h

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

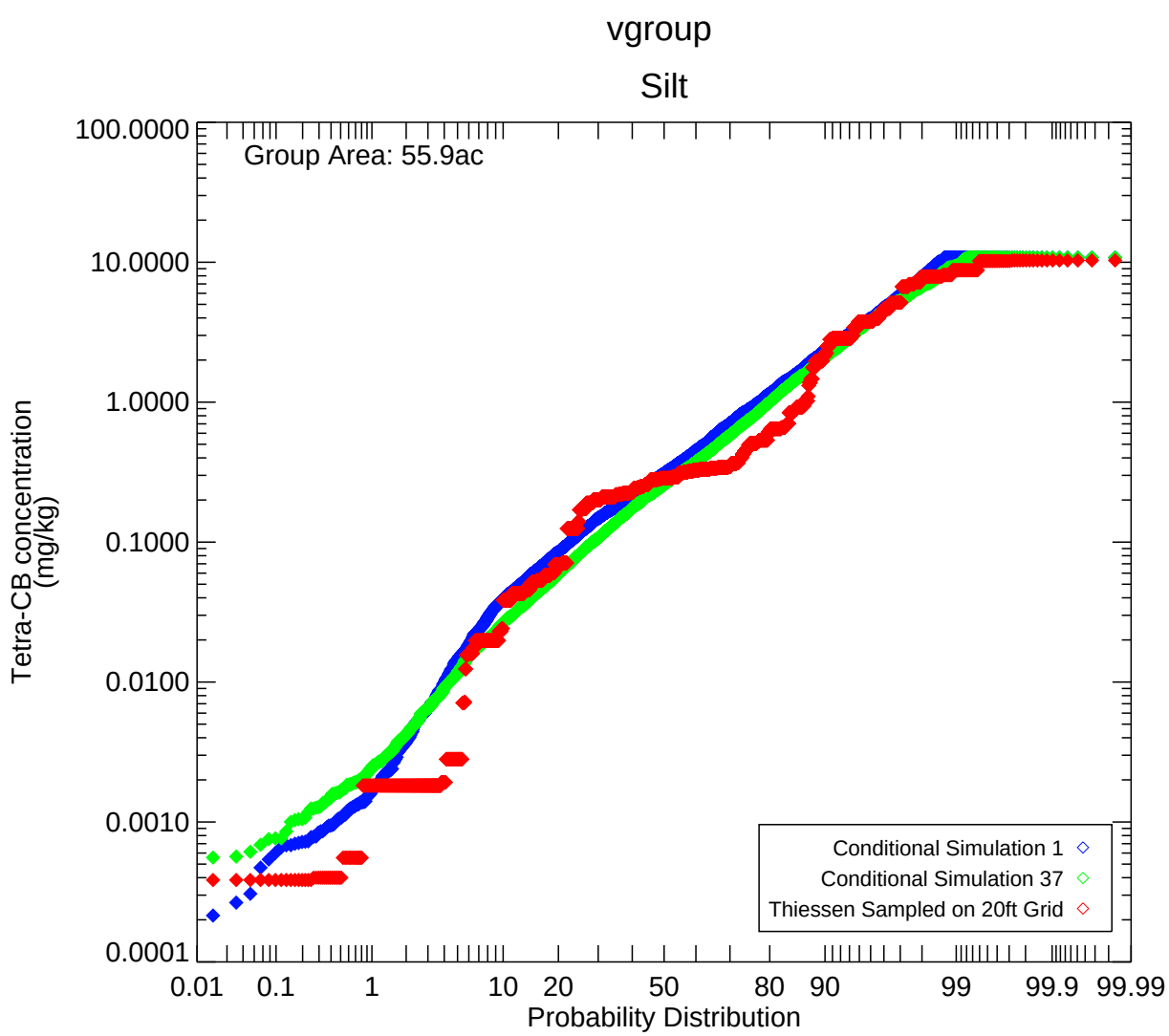


Analysis extent RM 0-14.7.
Run ID: k20170821_tetra/v1_gauss_ex2/a5_lg_grid

Publish Date: 06/19/2019 14:40 | User: GD/CH/EP
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_4_probplot_CS_Thies.pro

Figure 7-4i

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

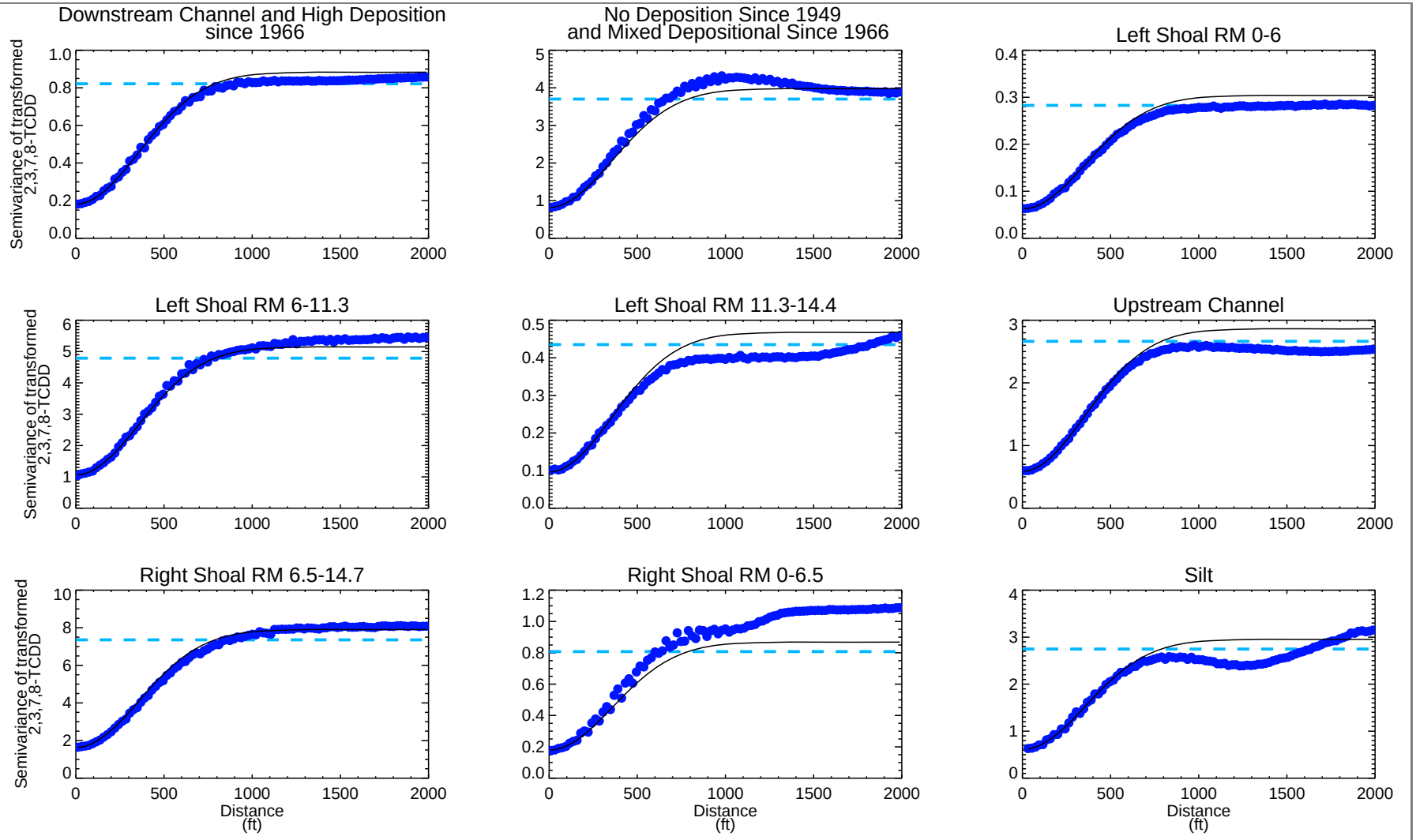


Analysis extent RM 0-14.7.
Run ID: k20170821_tetra/v1_gauss_ex2/a5_lg_grid

Publish Date: 06/19/2019 14:40 | User: GD/CH/EP
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_4_probplot_CS_Thies.pro

Figure 7-4j

Comparison of Tetra-CB Simulation Results and De-clustered Data (Thiessen polygons)

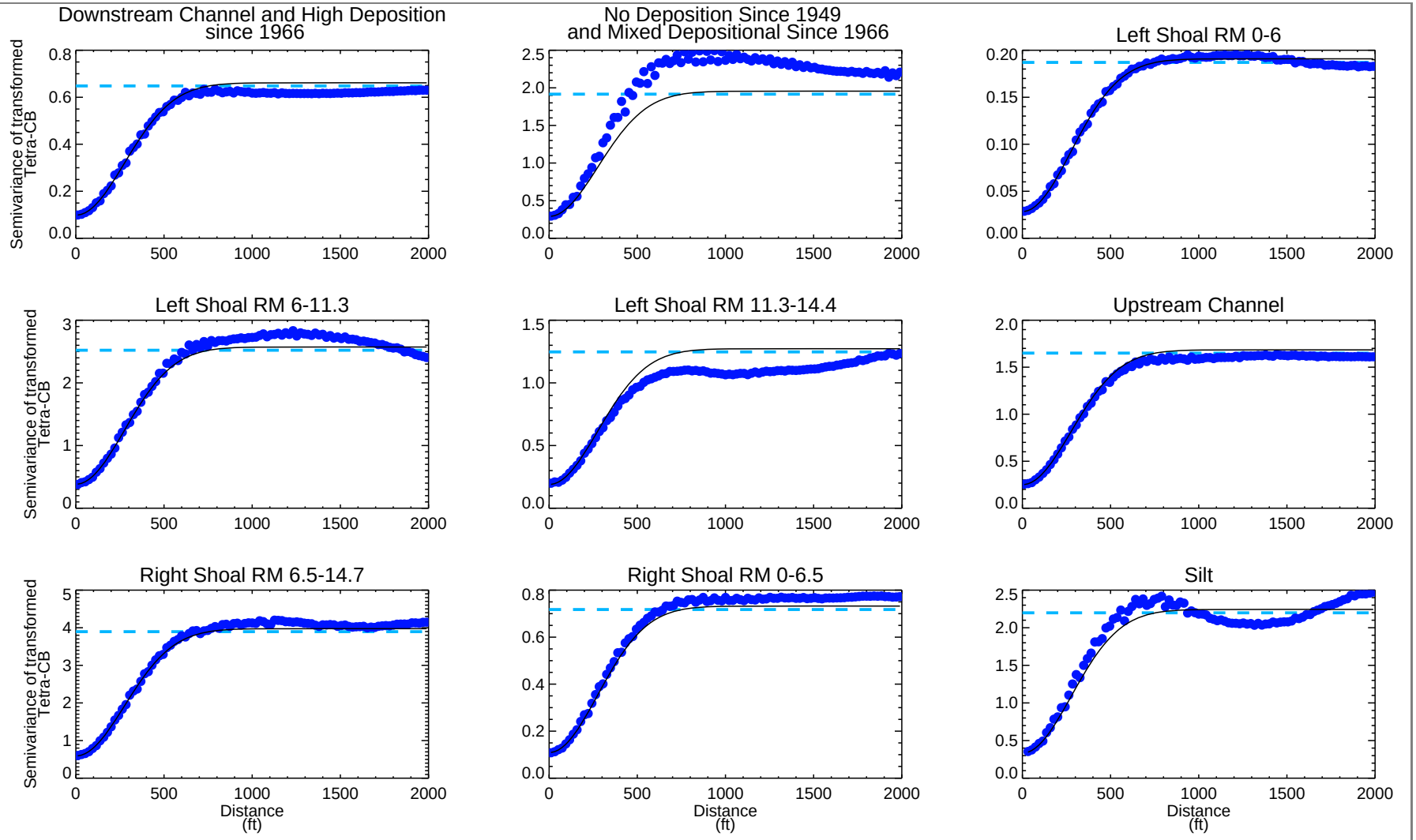


Publish Date: 06/19/2019 14:49 | User: SM/CH
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_5_variogram_aggregate_by_vgroups.pro

Figure 7-5

Aggregate Variogram Recovery by vgroup for 2,3,7,8-TCDD Based on 100 Conditional Simulations

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

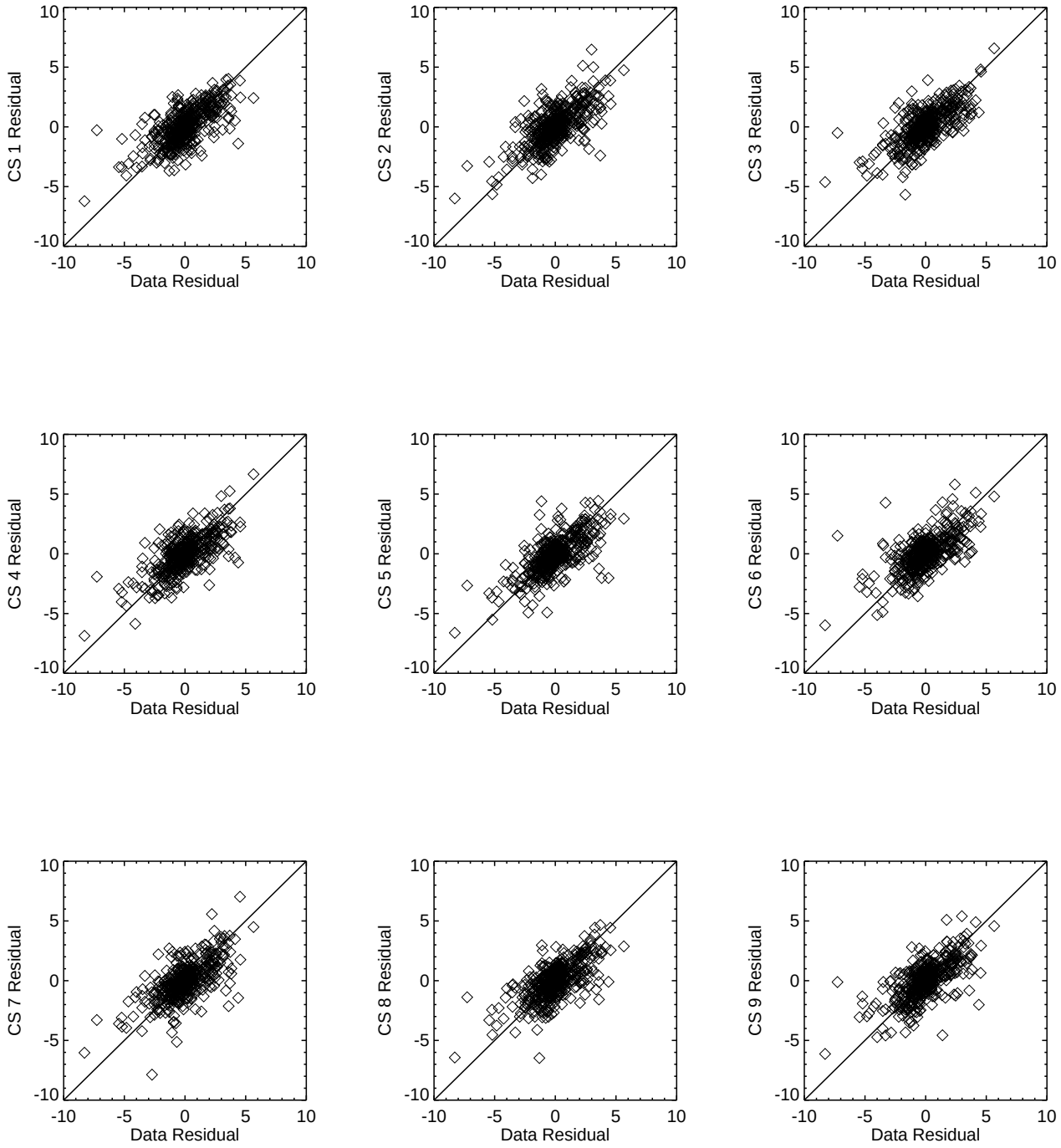


Publish Date: 06/19/2019 14:55 | User: SM/CH
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_6_variogram_aggregate_by_vgroups_Tetra.pro

Figure 7-6

Aggregate Variogram Recovery by vgroup for Tetra-CB Based on 100 Conditional Simulations

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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



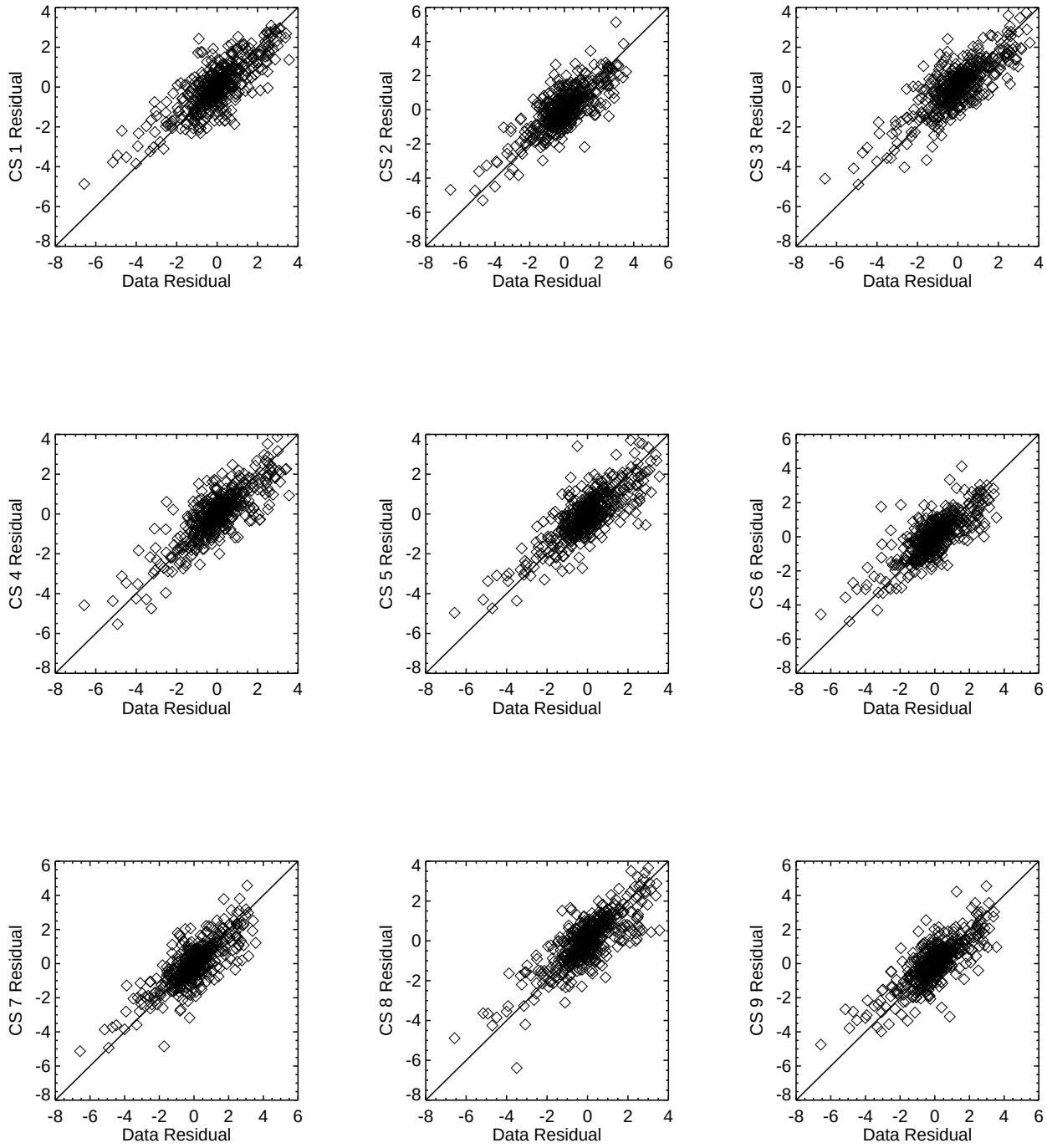
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Publish Date: 06/19/2019 15:00 | User: SM/CH/SLL
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_7_residual_cs_vs_data_xplot.pro

Figure 7-7

2,3,7,8-TCDD Conditional Simulation Residuals Versus Data Residuals

Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

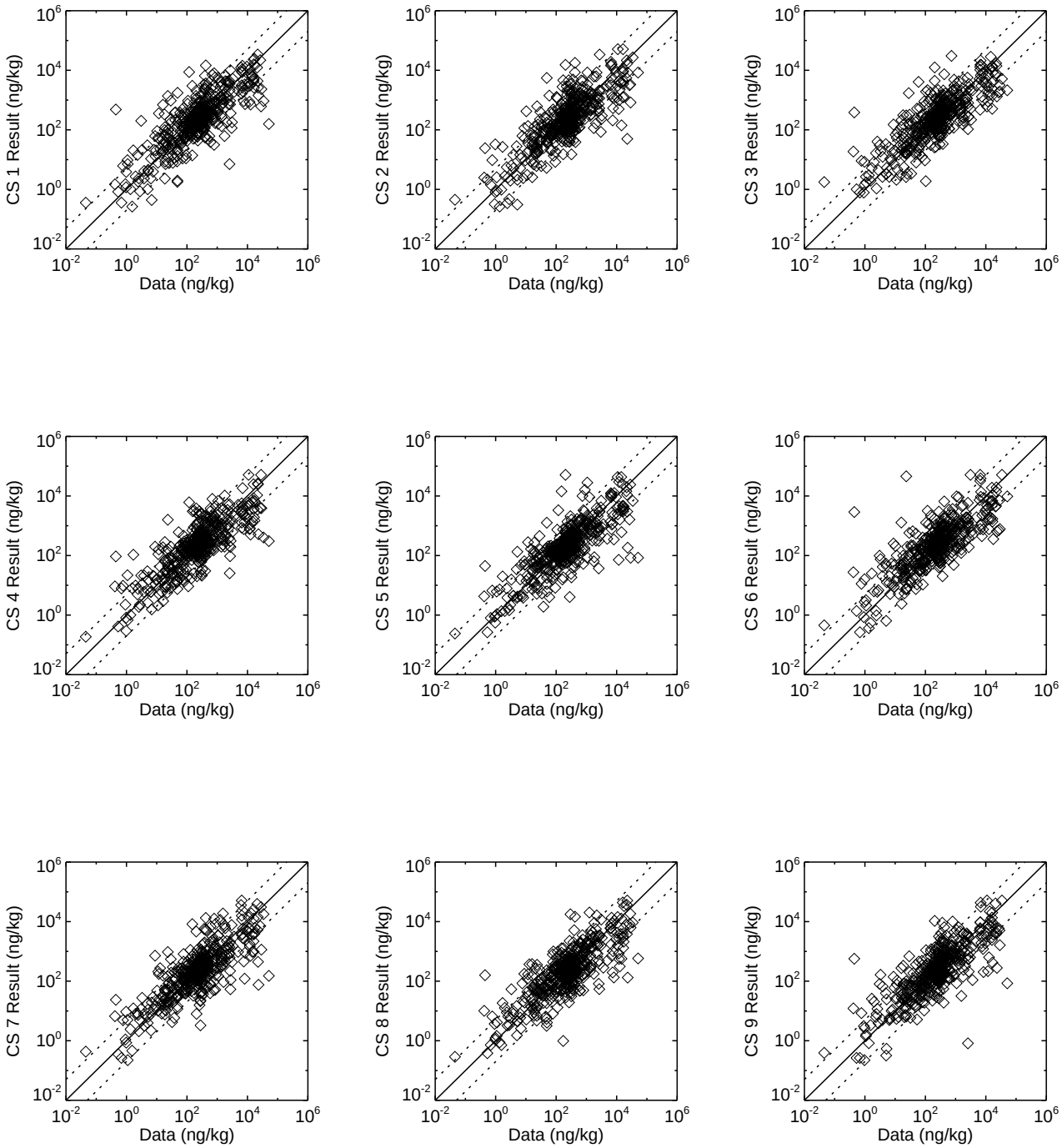


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Publish Date: 06/19/2019 15:01 | User: SM/CH
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_8_residual_cs_vs_data_xplot_tetra.pro

Figure 7-8

Tetra-CB Conditional Simulation Residuals Versus Data Residuals



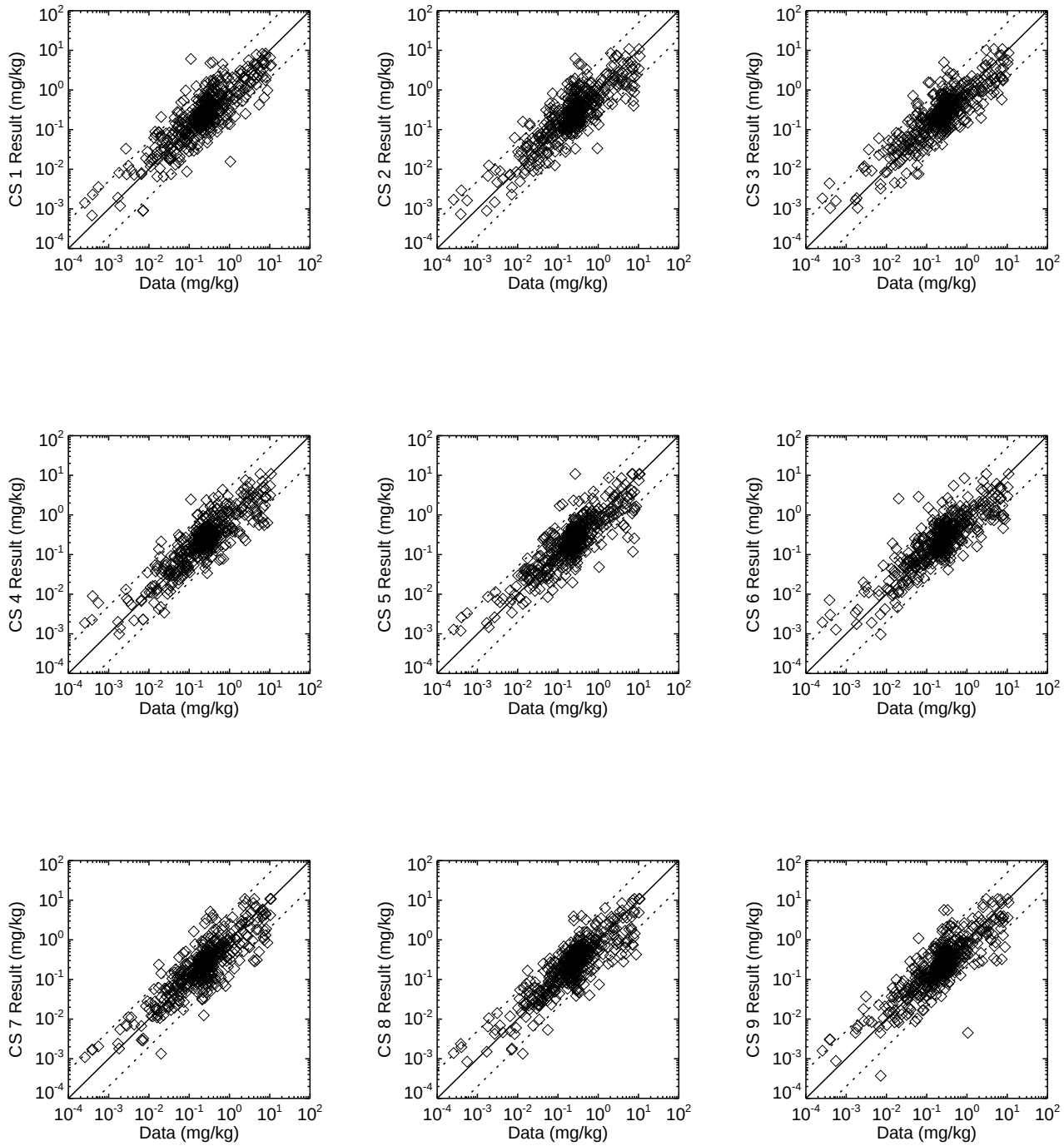
Run id: k20160909_RI_draft2\v1_gaussian\a5_lg_grid

Publish Date: 06/19/2019 15:02 | User: sm/ch
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_9_sim_vs_data_multipanel_xplot.pro

Figure 7-9

2,3,7,8-TCDD Conditional Simulation Results Versus Data

Remedial Investigation Report
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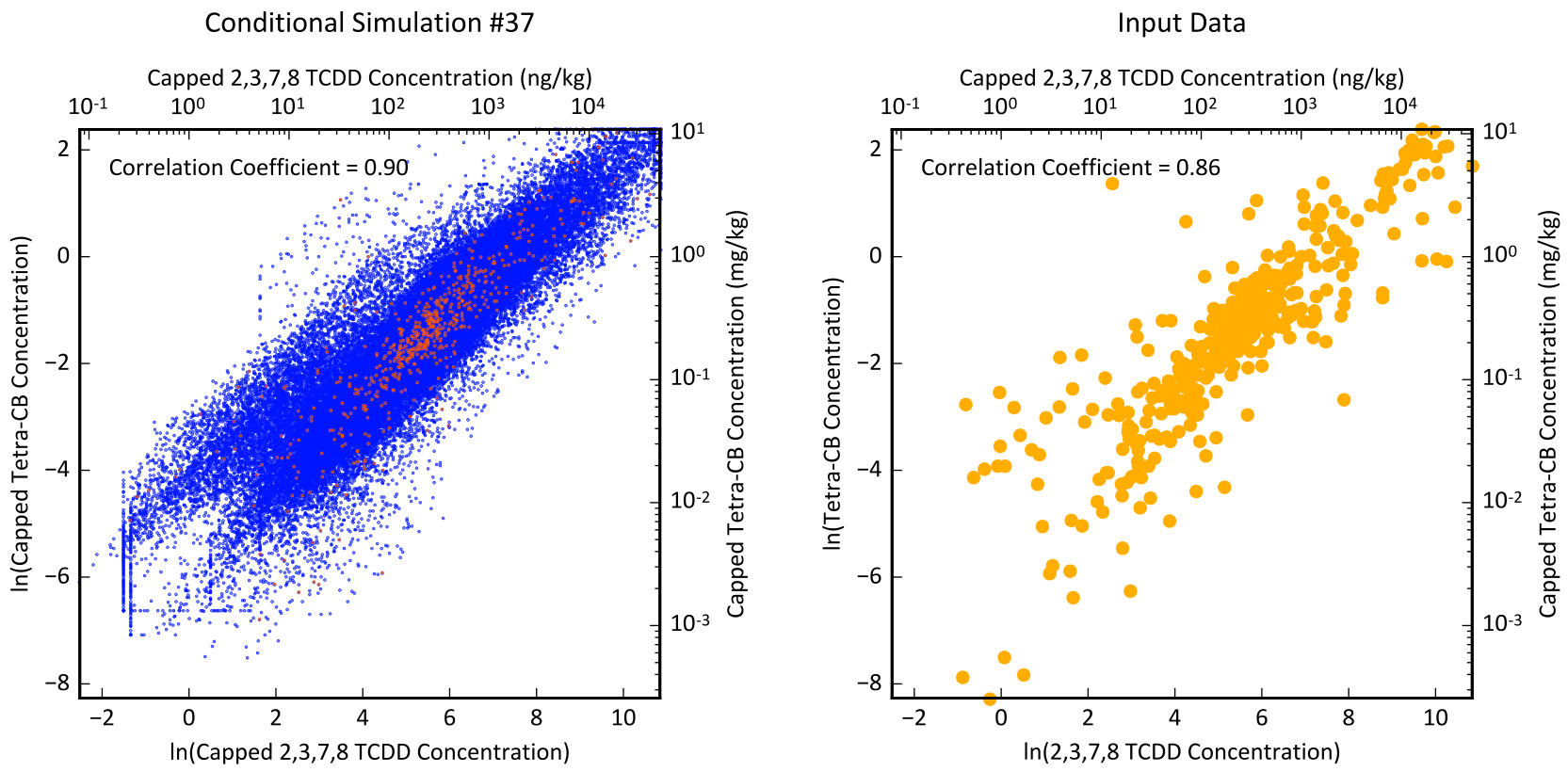


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Publish Date: 06/19/2019 15:12 | User: sm/ch
File Path: H:\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\code\Fig_7_10_sim_vs_data_multipanel_xplot_tetra.pro

Figure 7-10

Tetra-CB Conditional Simulation Results Versus Data

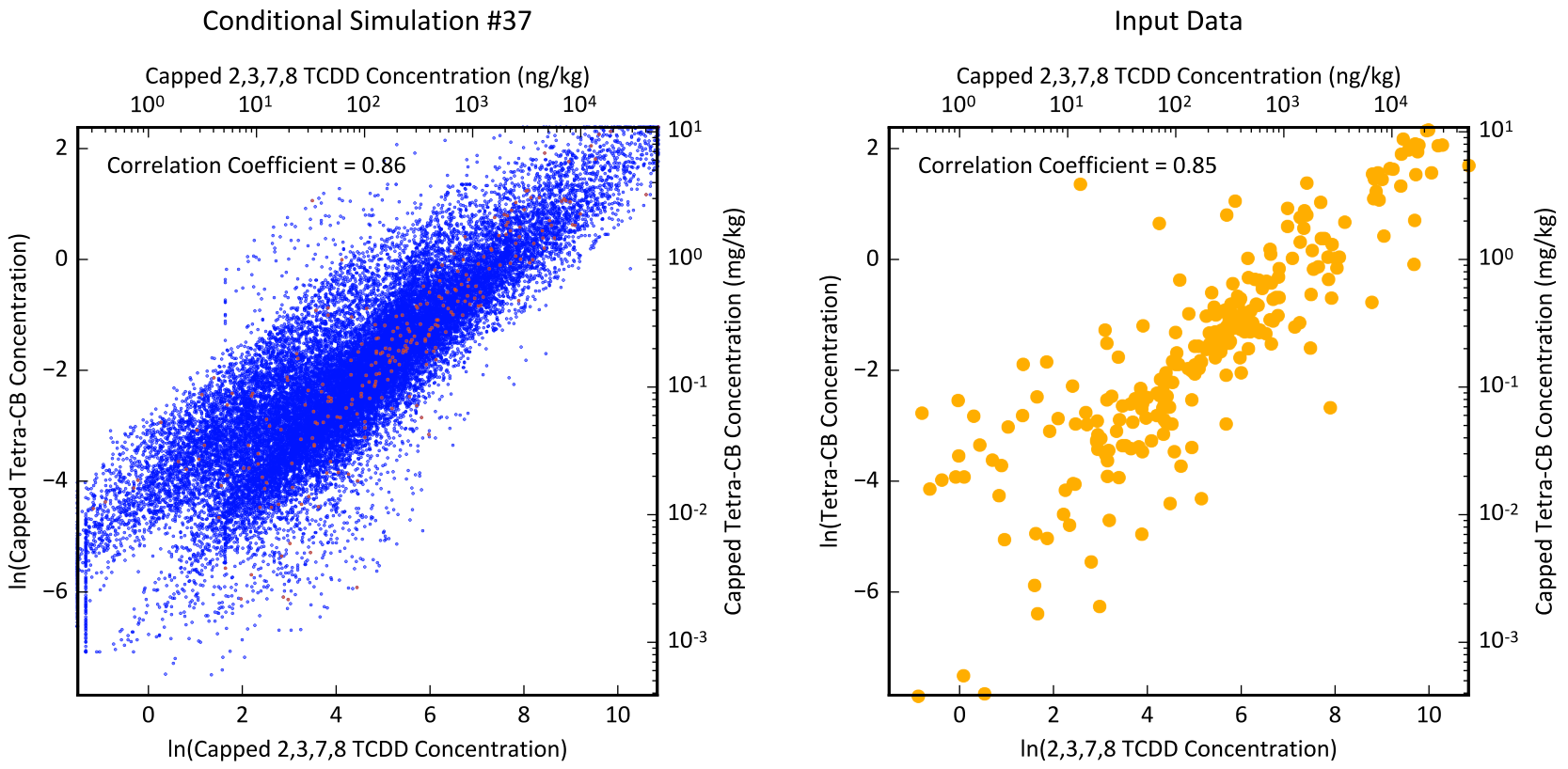


The correlation was calculated in capped_log space.
Data outside of VGROUPs are not included.

- Kriging grid
- Kriging grid colocated with input data
- Input data

Publish Date: 06/19/2019 15:16 PM | User: zl\ep
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_11_bivariate_correlation_prob_plot_v2.py

Figure 7-11a
Cross Plot of Tetra-CB and 2,3,7,8 TCDD: Whole River
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

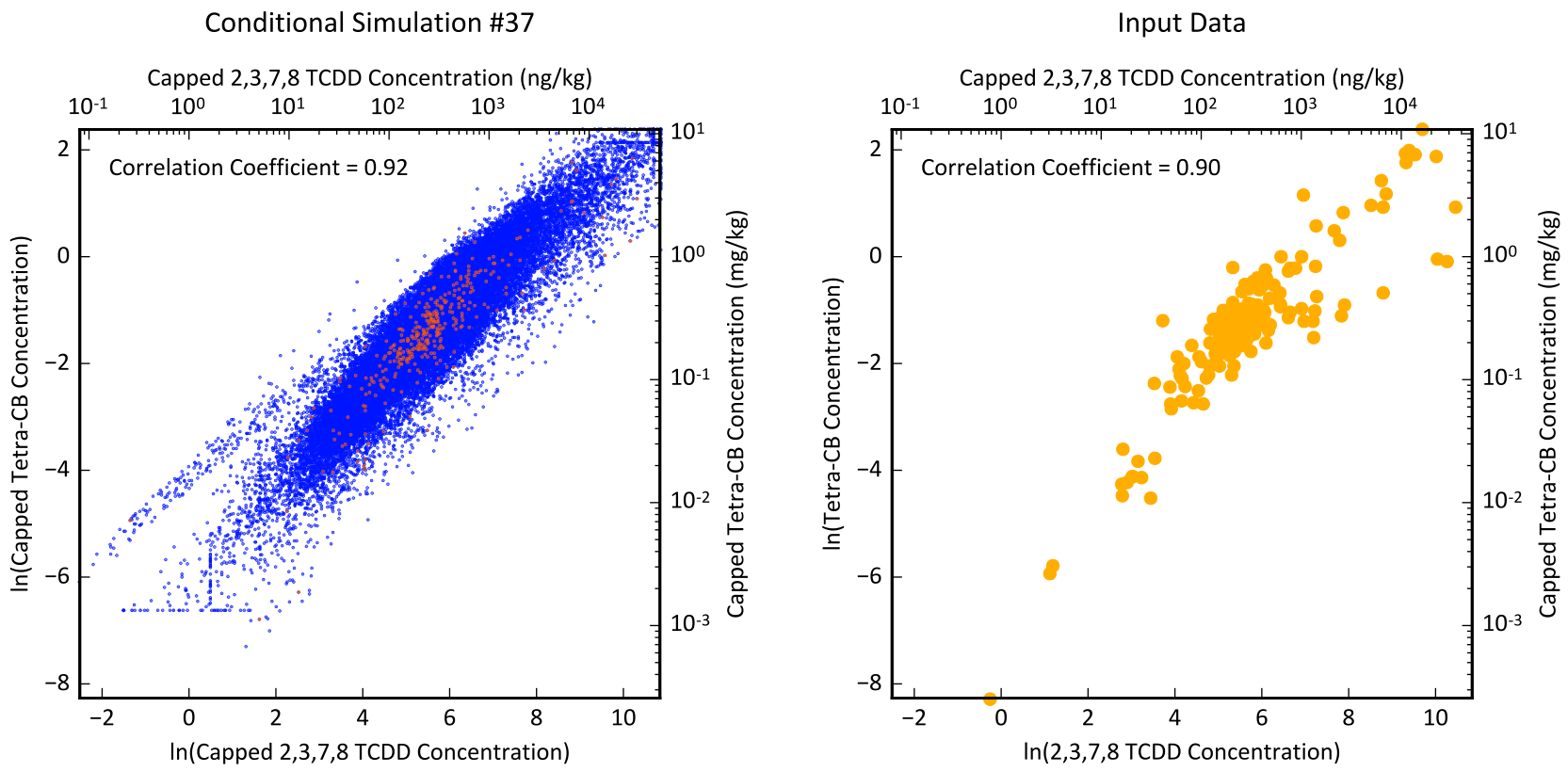


The correlation was calculated in capped_log space.
Data outside of VGROUPs are not included.

- Kriging grid
- Kriging grid colocated with input data
- Input data

Publish Date: 06/19/2019 15:16 PM | User: zl\ep
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_11_bivariate_correlation_prob_plot_v2.py

Figure 7-11b
Cross Plot of Tetra-CB and 2,3,7,8 TCDD: Above RM8
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

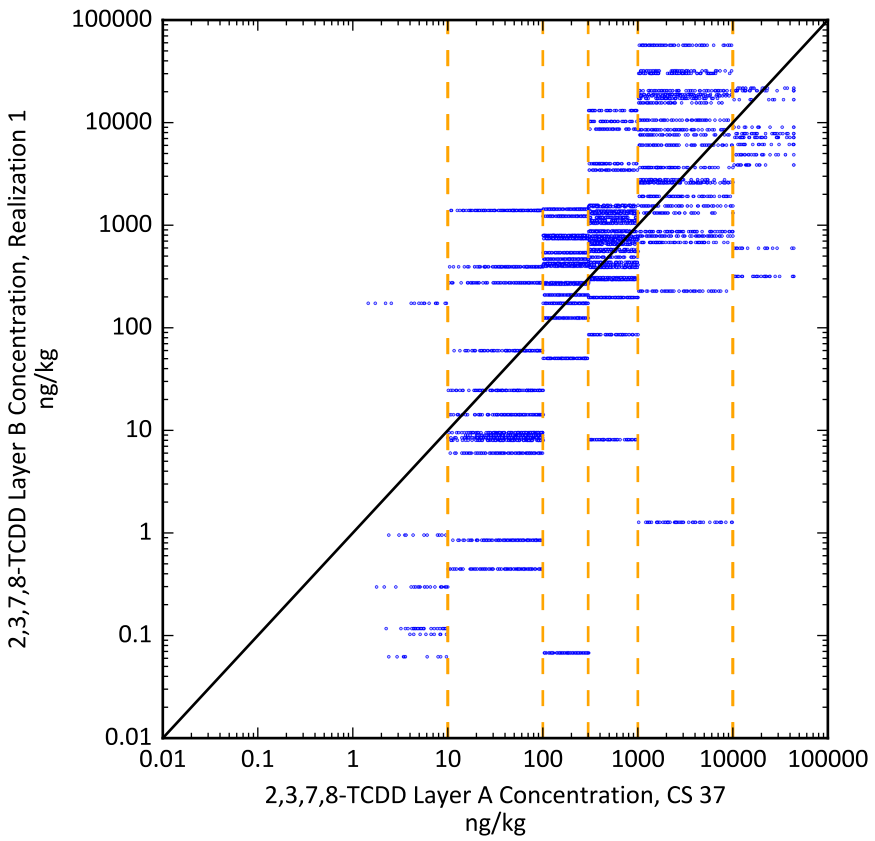


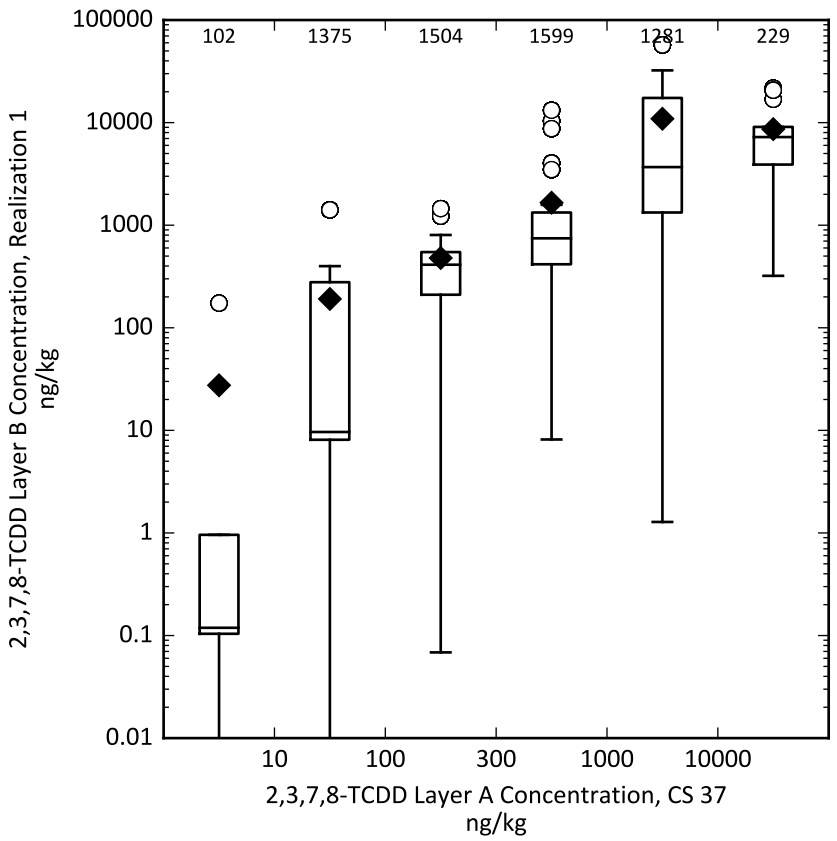
The correlation was calculated in capped_log space.
Data outside of VGROUPs are not included.

- Kriging grid
- Kriging grid colocated with input data
- Input data

Publish Date: 06/19/2019 15:17 PM | User: zl\ep
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_11_bivariate_correlation_prob_plot_v2.py

Figure 7-11c
Cross Plot of Tetra-CB and 2,3,7,8 TCDD: Below RM8
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study





Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions. Data is from the 2010 dataset.
The Conditional Simulation was sampled on a 20 x 20 ft grid.

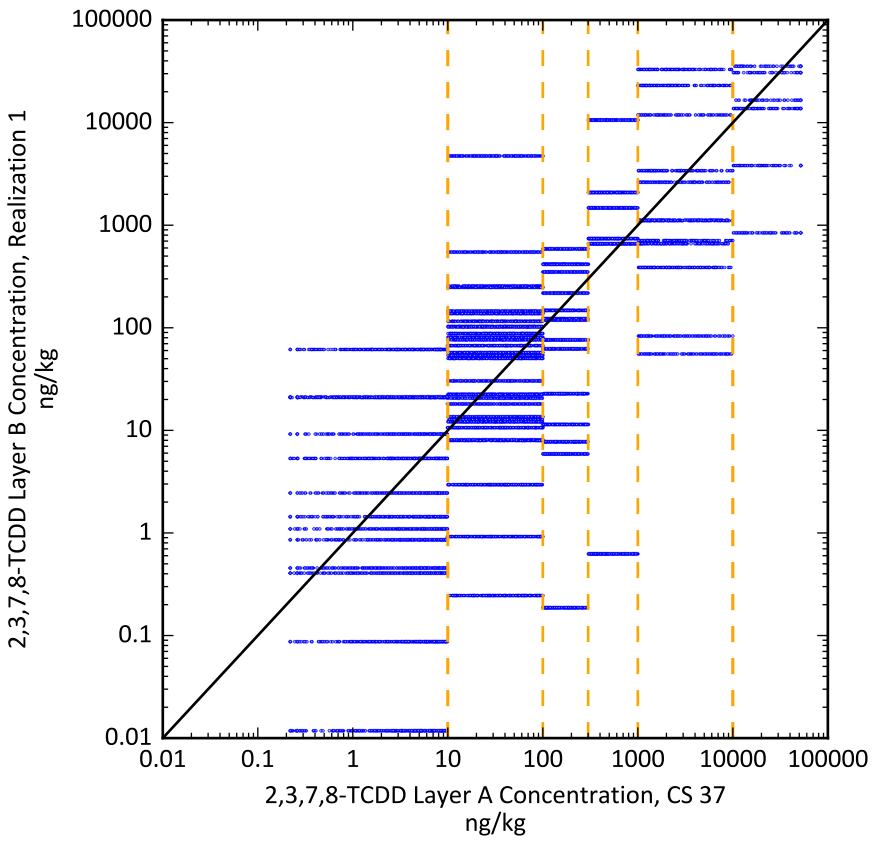
Publish Date: 06/19/2019 15:18 PM | User: GD
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_12_crossplot_CS_LayerB_Resample.py

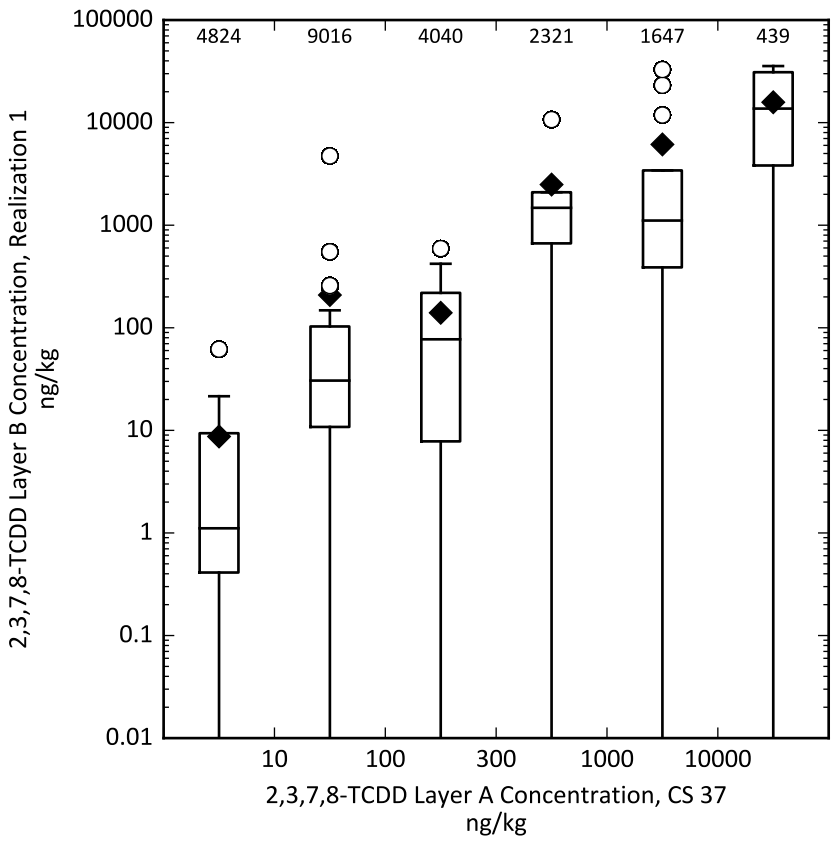
Figure 7-12a

2,3,7,8-TCDD 2010 Mapped Conditional Simulation Layer A and Layer Resampled B Comparison: Silt RM 7.8-14.7

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation\Feasibility Study





Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions. Data is from the 2010 dataset.
The Conditional Simulation was sampled on a 20 x 20 ft grid.

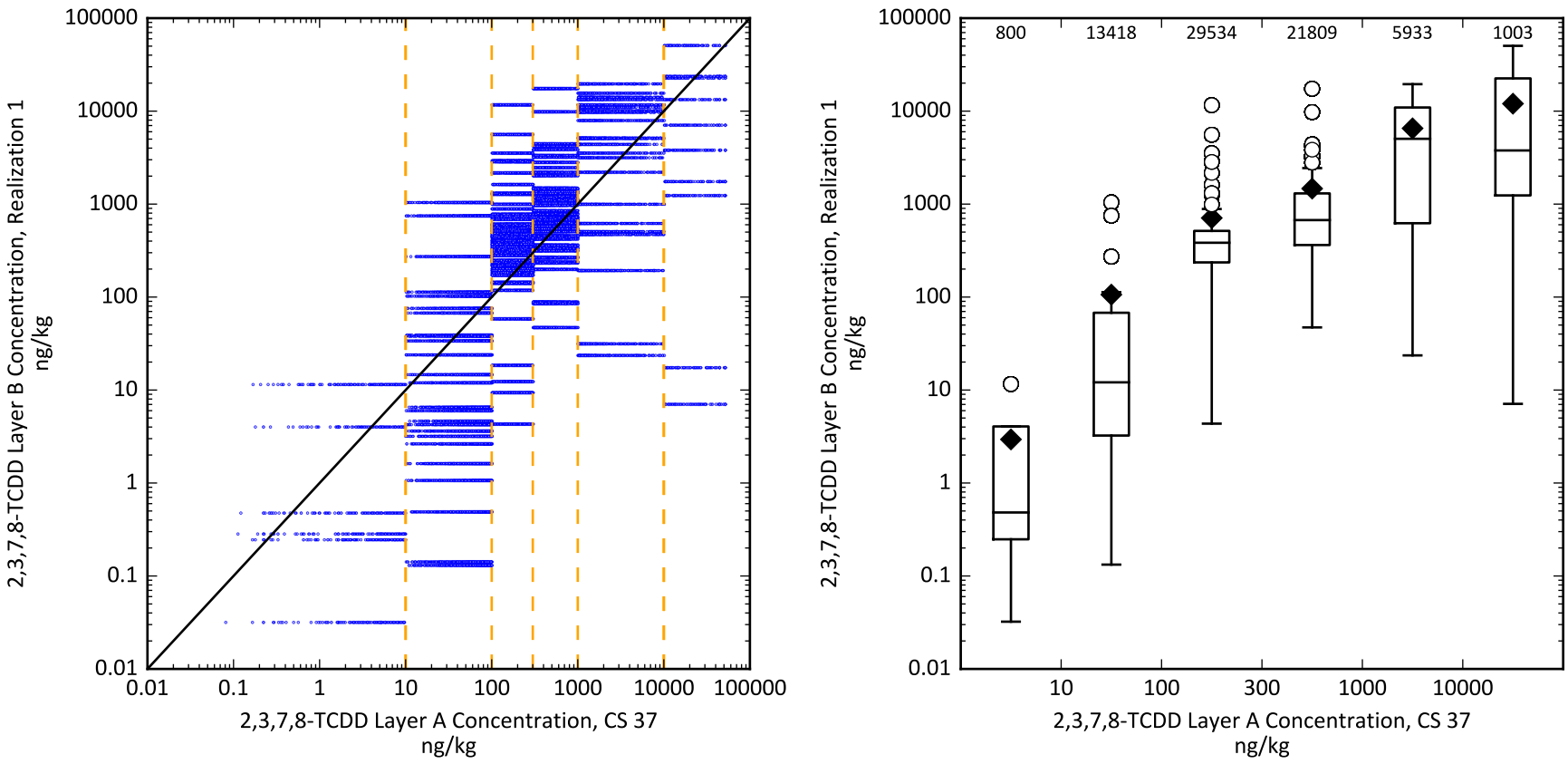
Publish Date: 06/19/2019 15:18 PM | User: GD
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_12_crossplot_CS_LayerB_Resample.py

Figure 7-12b

2,3,7,8-TCDD 2010 Mapped Conditional Simulation Layer A and Layer Resampled B Comparison: Non-Silt RM 7.8-14.7

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Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions. Data is from the pooled 1995 and 2010 dataset.
The Conditional Simulation was sampled on a 20 x 20 ft grid.

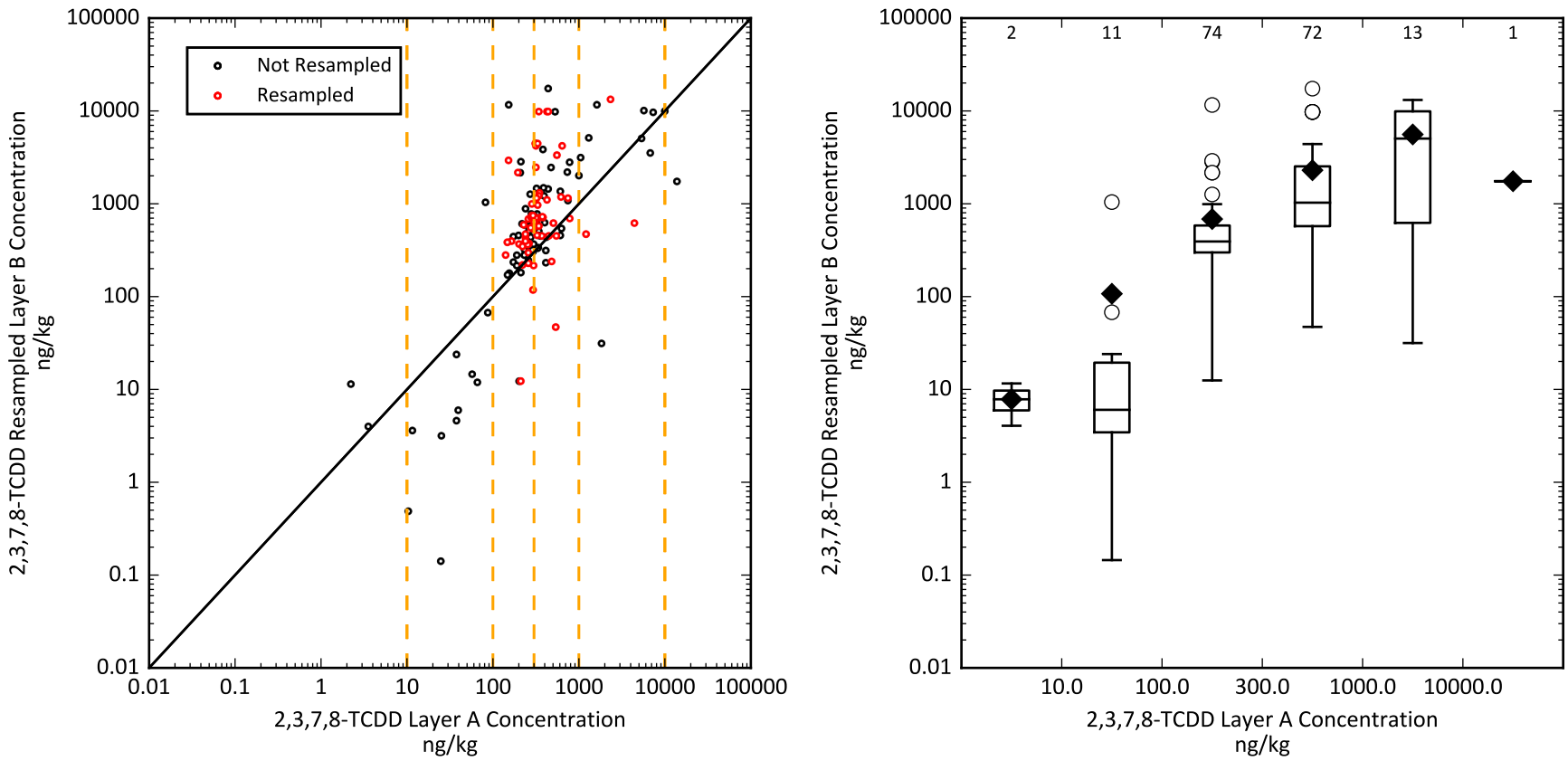
Publish Date: 06/19/2019 15:18 PM | User: GD
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_12_crossplot_CS_LayerB_Resample.py

Figure 7-12c

2,3,7,8-TCDD 2010 Mapped Conditional Simulation Layer A and Layer Resampled B Comparison: RM 0-7.8

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Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
The layer B resampling is based on the 1995 Thiessen mapping and pooled 1995 and 2010 dataset.
There are no Layer B concentrations with a value of zero.

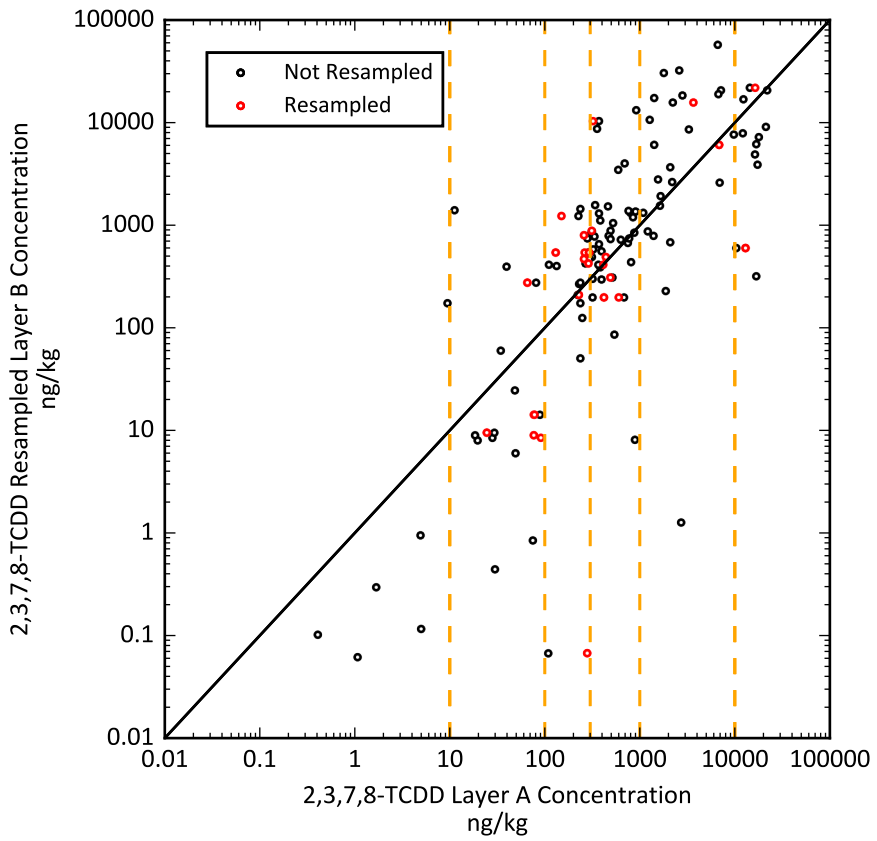
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File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_13_14_crossplot_ThiesvThies_newlayerB.py

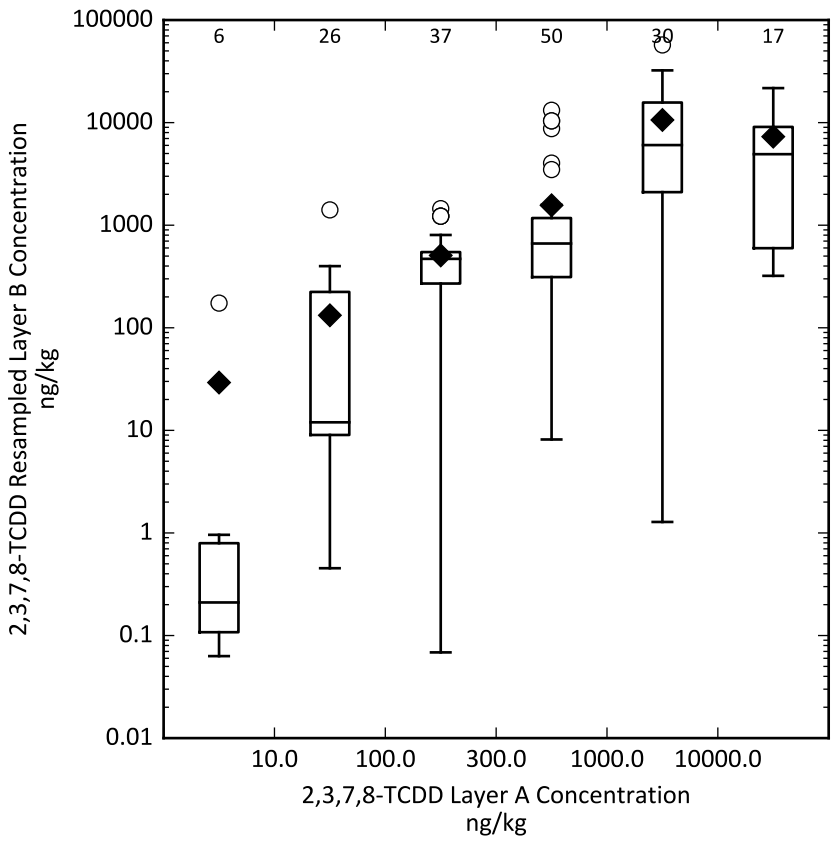
Figure 7-13

2,3,7,8-TCDD 1995 Mapped Thiessen Layer A and Resampled Layer B Comparison: RM 1-7

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation\Feasibility Study





Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
The layer B resampling is based on the 1995 Thiessen mapping and pooled 2010 dataset.
2 Layer B concentrations with a value of zero are not shown.

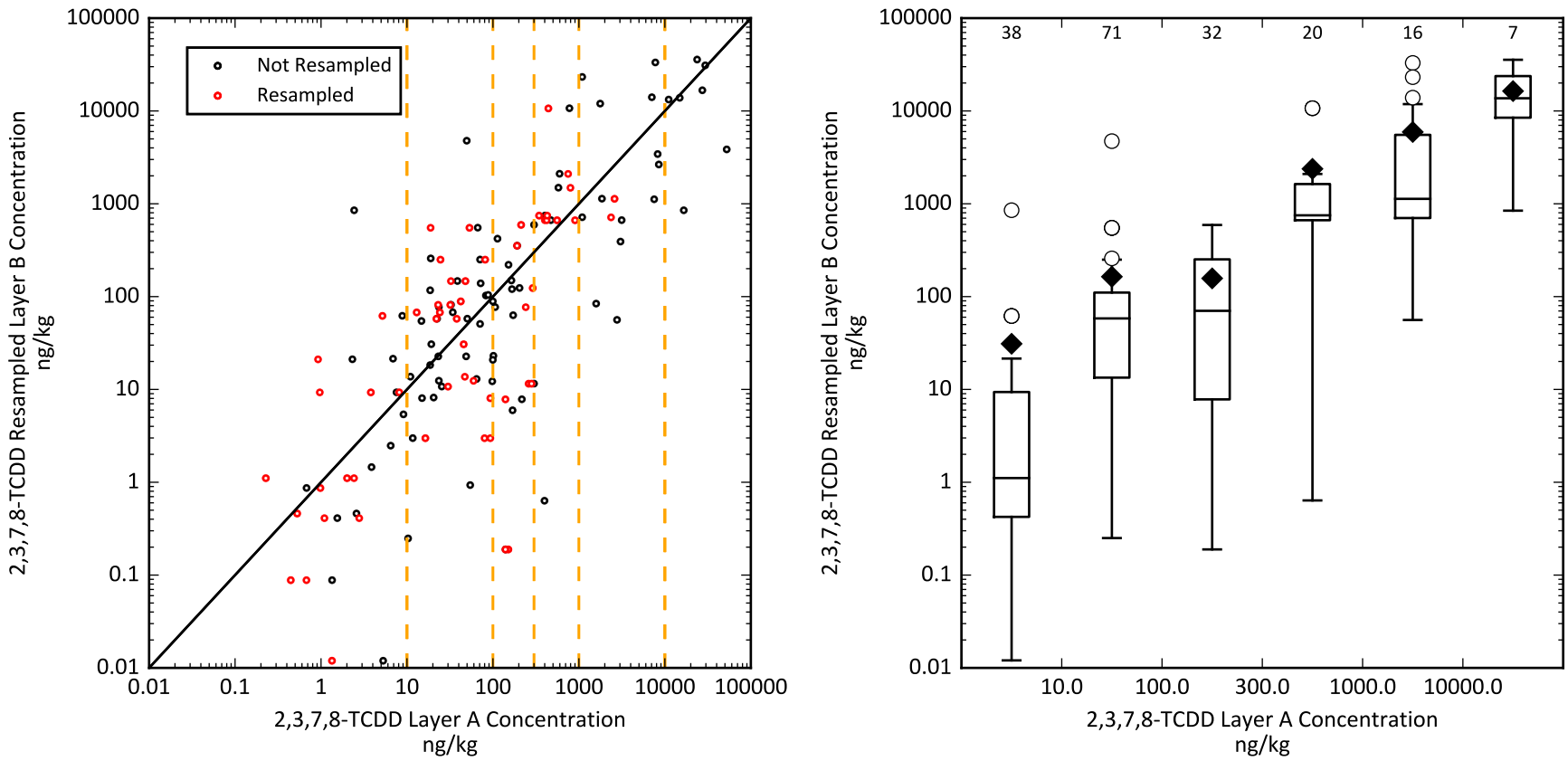
Publish Date: 06/19/2019 15:22 PM | User: DB
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_13_14_crossplot_ThiesvThies_newlayerB.py

Figure 7-14a

2,3,7,8-TCDD 1995 Mapped Thiessen Layer A and Resampled Layer B Comparison: Silt RM 7.8-14.7

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Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
The layer B resampling is based on the 1995 Thiessen mapping and pooled 2010 dataset.
49 Layer B concentrations with a value of zero are not shown.

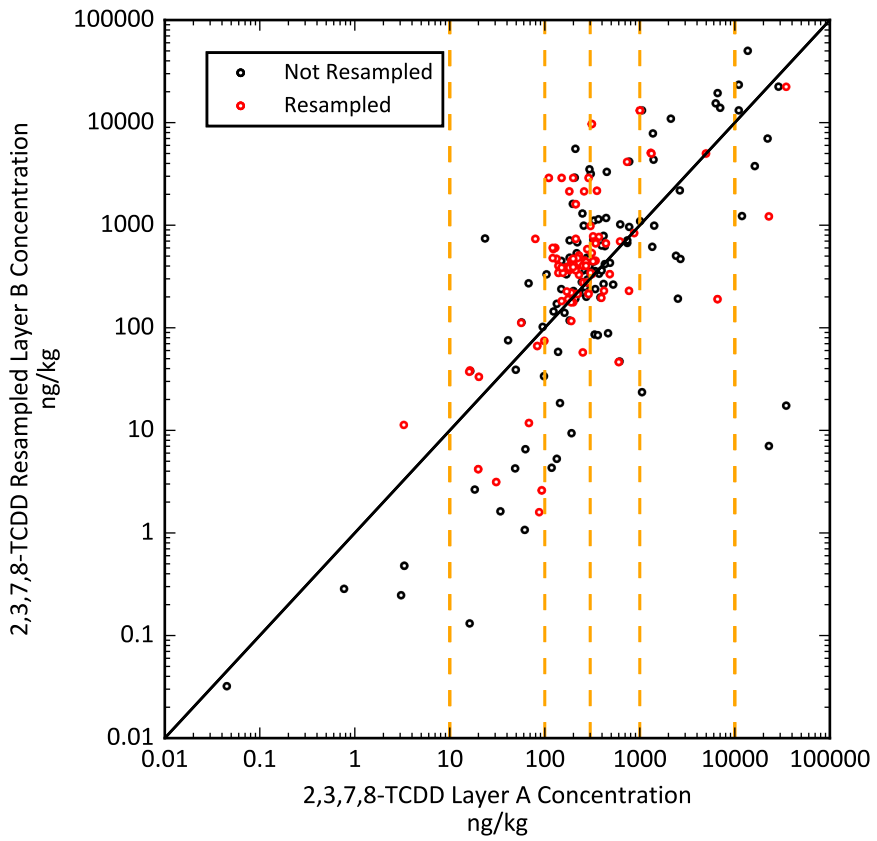
Publish Date: 06/19/2019 15:22 PM | User: DB
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_13_14_crossplot_ThiesvThies_newlayerB.py

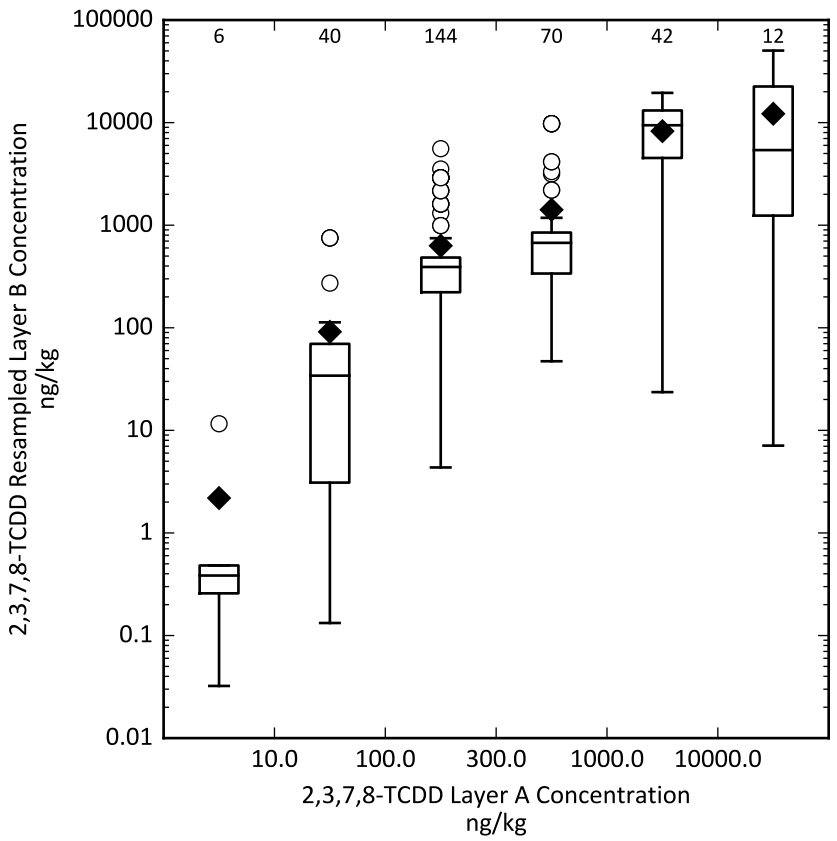
Figure 7-14b

2,3,7,8-TCDD 1995 Mapped Thiessen Layer A and Resampled Layer B Comparison: Non-Silt RM 7.8-14.7

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation\Feasibility Study





Layer A is 0 - 15 cm. Layer B is 15 - 45 cm. Vertical orange lines are bin divisions.
The layer B resampling is based on the 2010 Thiessen mapping and pooled 1995 and 2010 dataset.
There are no Layer B concentrations with a value of zero.

Publish Date: 06/19/2019 15:22 PM | User: DB
File Path: H:/Passaic_CPG/DOCUMENTS/2019/RI_Report/source/v5/Appendix_J/code/Fig_7_13_14_crossplot_ThiesvThies_newlayerB.py

Figure 7-14c

2,3,7,8-TCDD 1995 Mapped Thiessen Layer A and Resampled Layer B Comparison: RM 0-7.8

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation\Feasibility Study

Thiessen Layer A

Old Thiessen Layer B

New Layer B With Resampling



Legend:

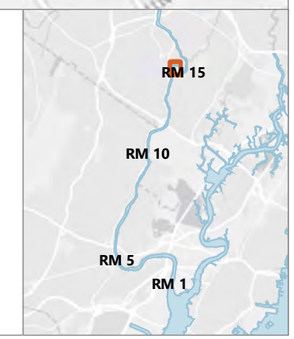
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 450
Feet



Publish Date: 2019/06/13, 7:06 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15a
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Publish Date: 2019/06/13, 7:06 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15b
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling

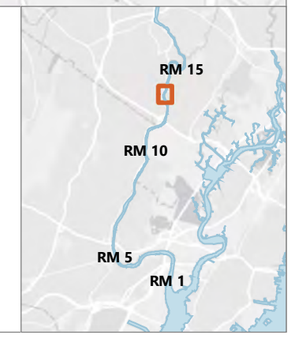


Legend:

1995 Dataset	2,3,7,8-TCDD Concentration (ng/kg)
2010 Dataset	0
Layer B Resampled	>0 - 100
Shallow Areas	101 - 250
Bridge Abutment	251 - 500
Shoreline	501 - 1,000
	1,001 - 10,000
	>10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 580
Feet



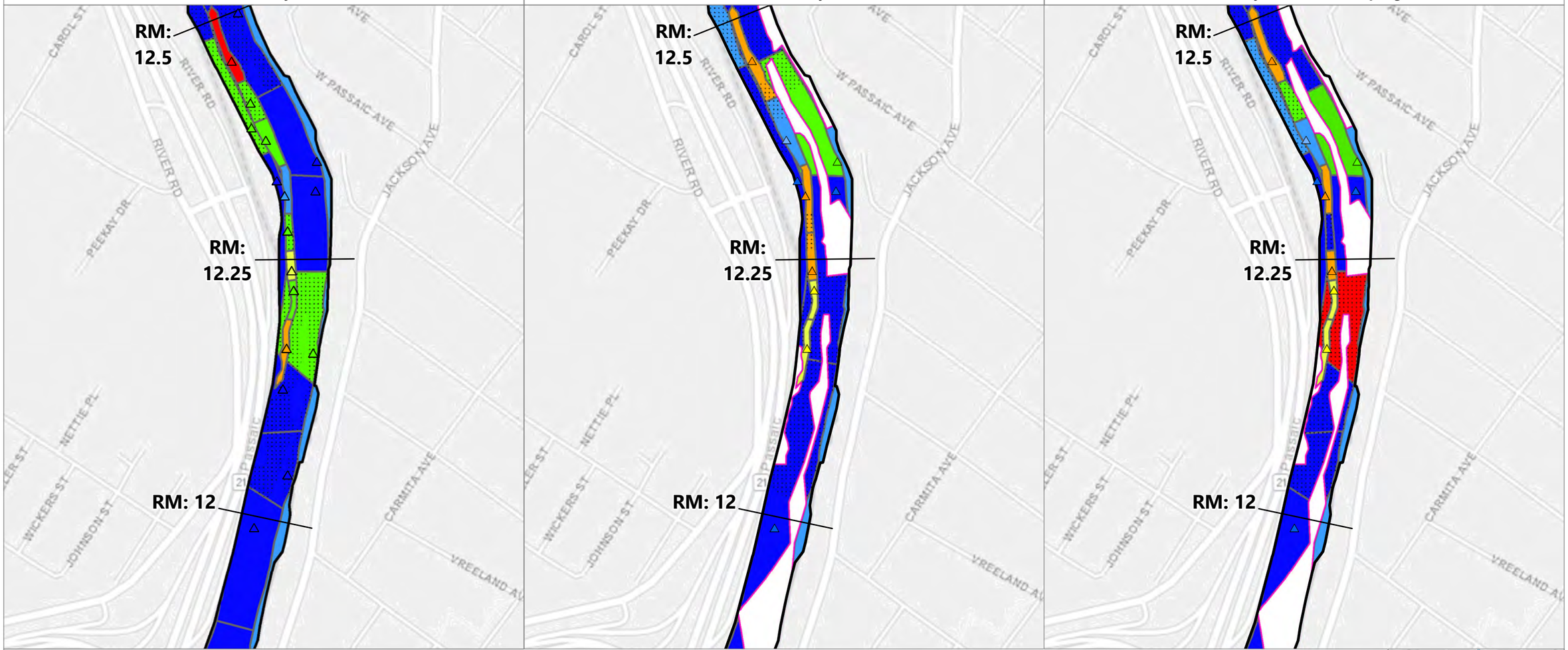
Publish Date: 2019/06/13, 7:07 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15c
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A

Old Thiessen Layer B

New Layer B With Resampling

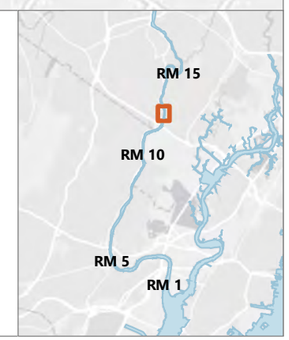


Legend:

1995 Dataset	2,3,7,8-TCDD Concentration (ng/kg)
2010 Dataset	0
Layer B Resampled	>0 - 100
Shallow Areas	101 - 250
Bridge Abutment	251 - 500
Shoreline	501 - 1,000
	1,001 - 10,000
	>10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

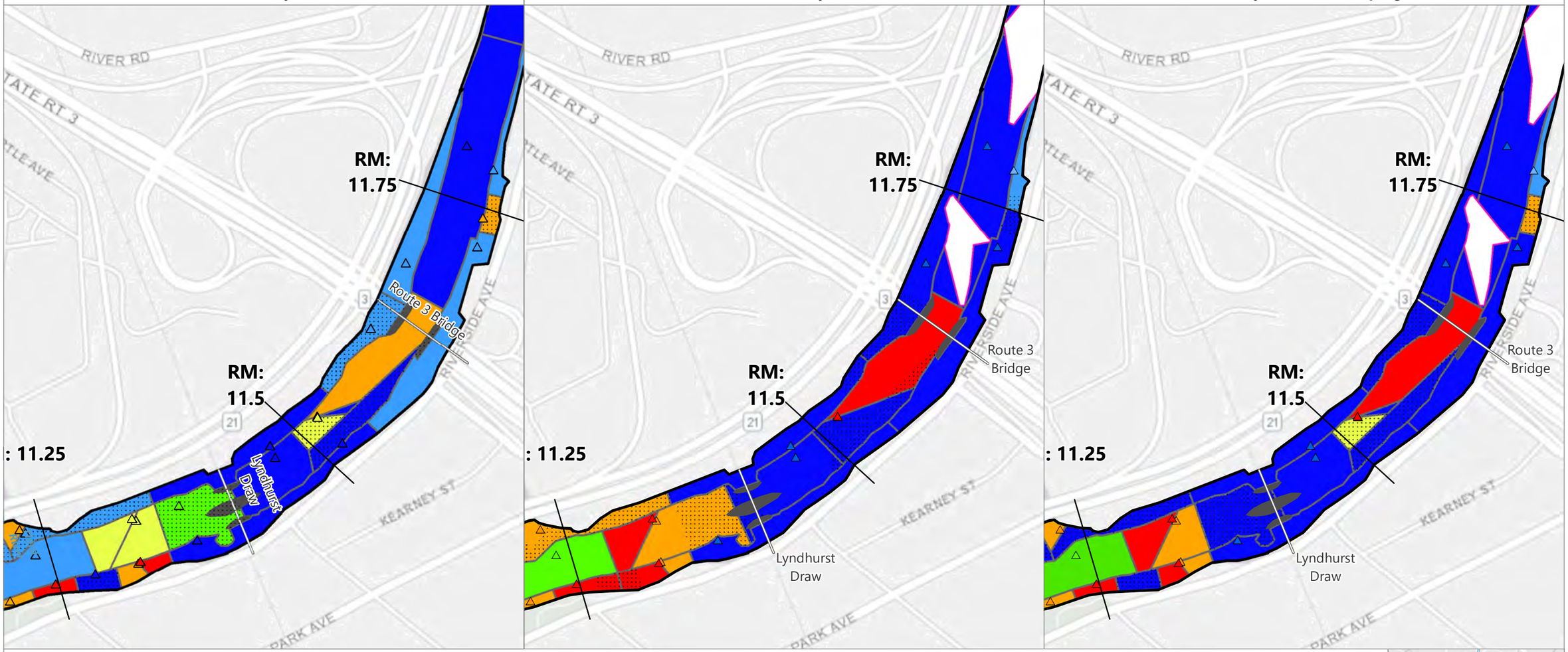
0 500
Feet



Publish Date: 2019/06/13, 7:07 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15d
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling



Legend:

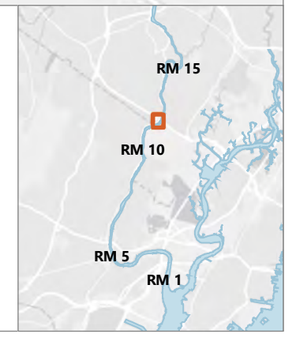
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

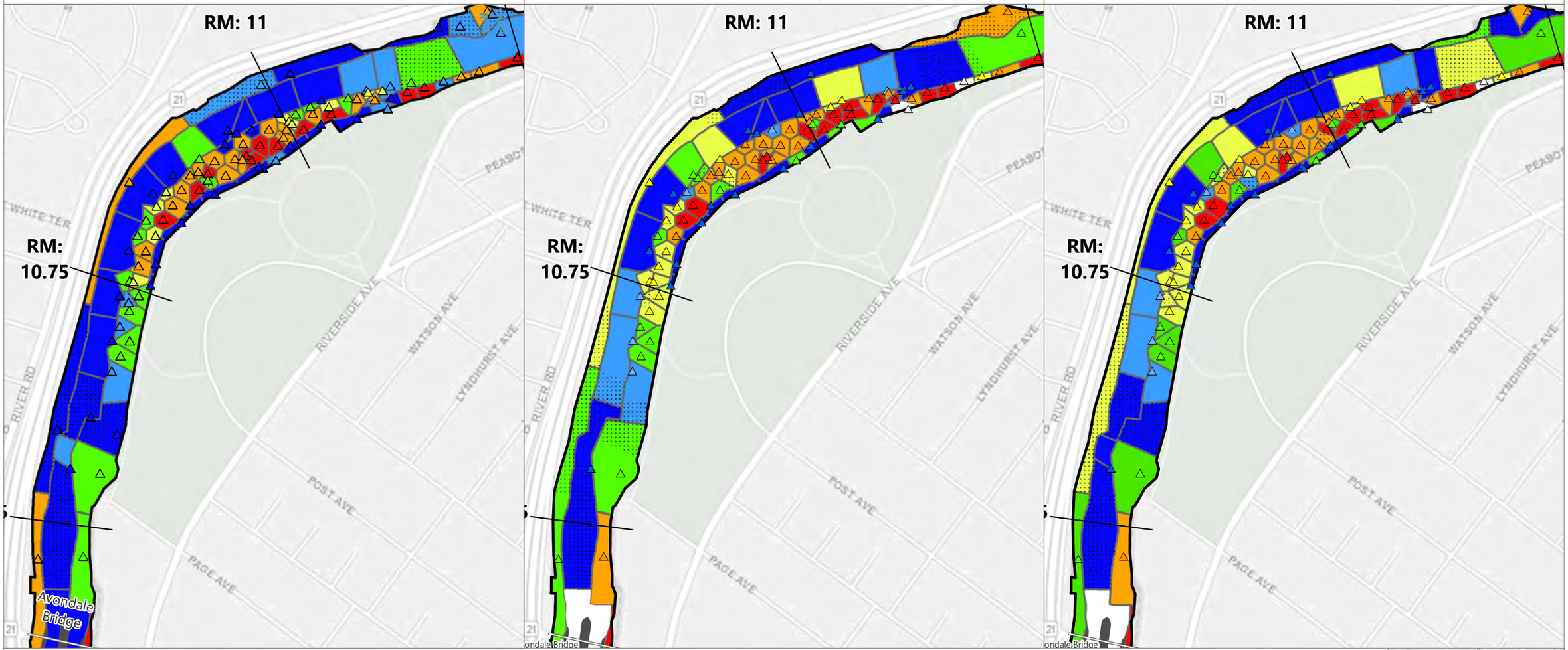
NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 450
Feet



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Figure 7-15e
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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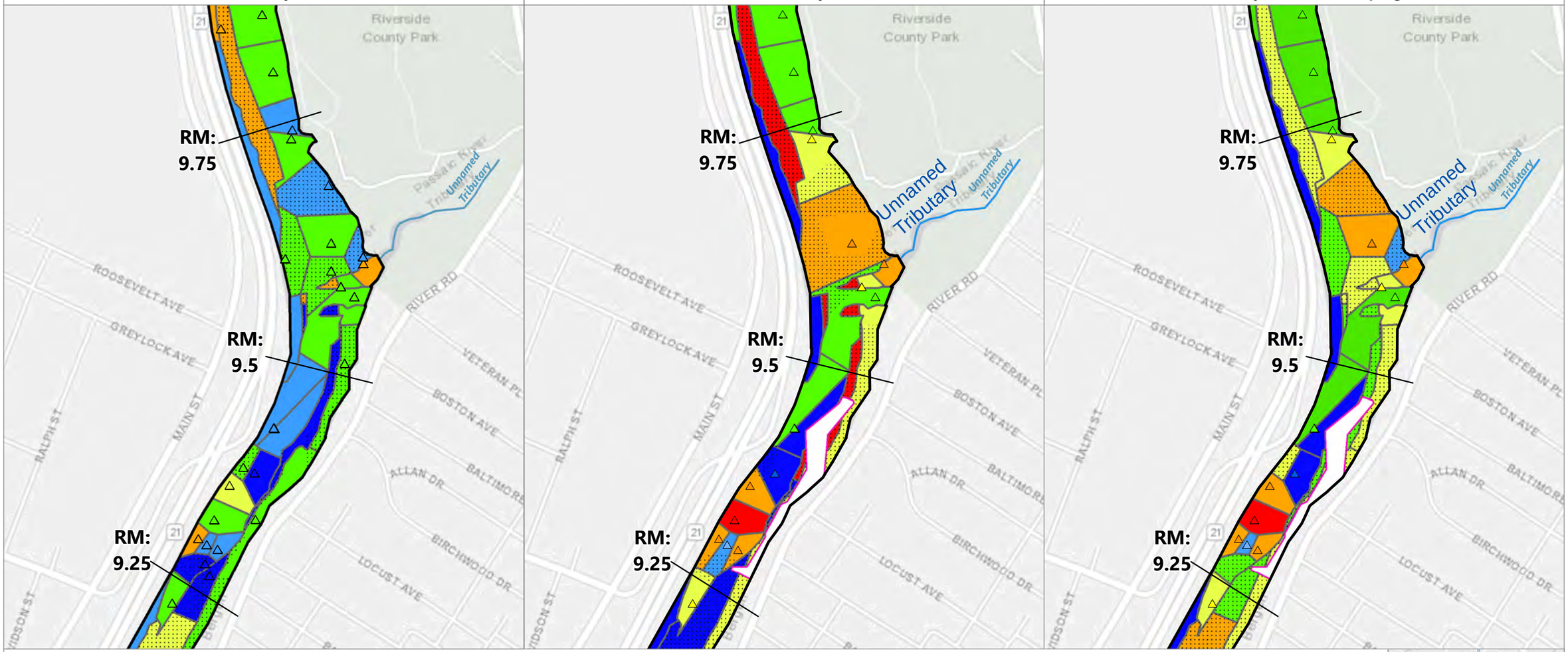
Figure 7-15f
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-15g
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling



Legend:

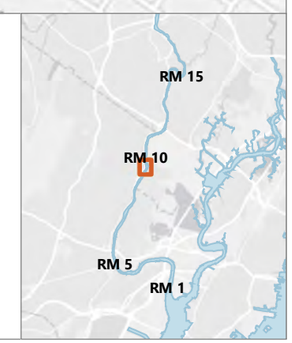
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

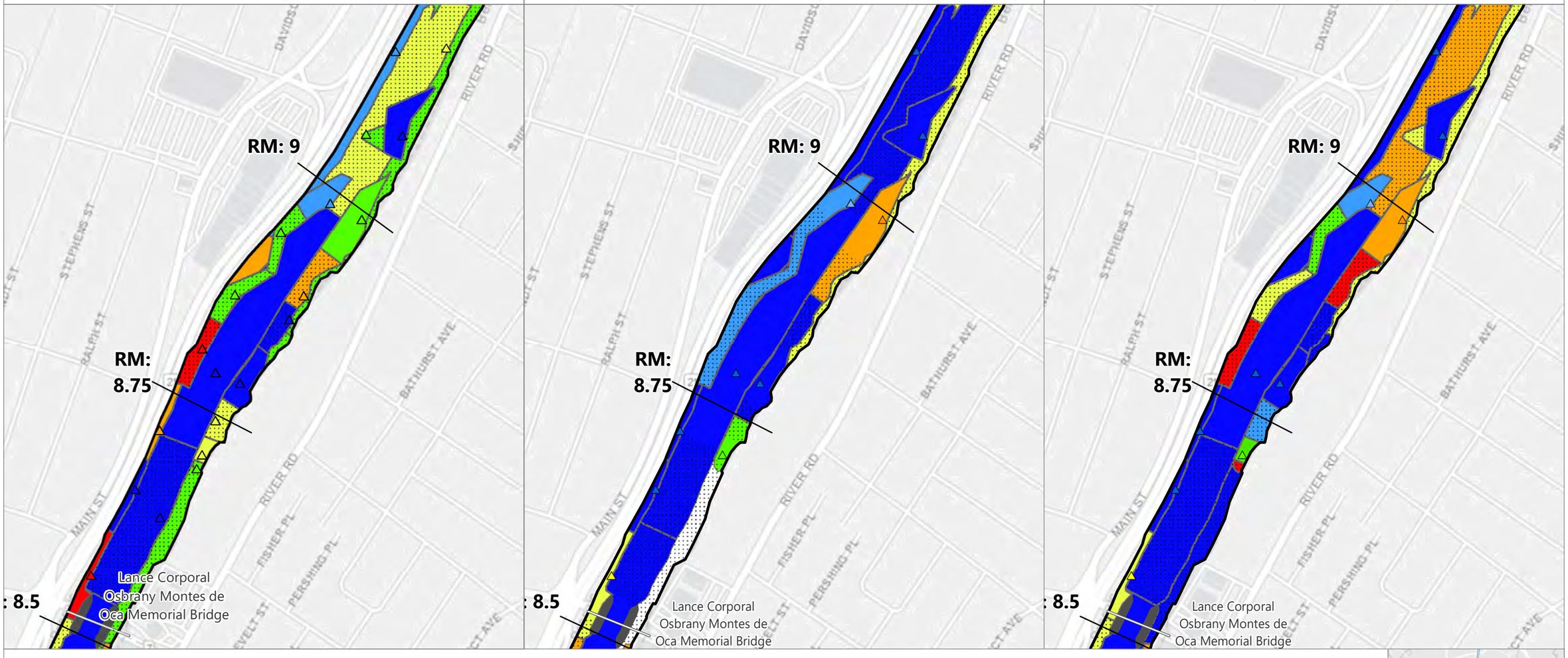
0 500
Feet



Publish Date: 2019/06/13, 7:08 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15h
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling



Legend:

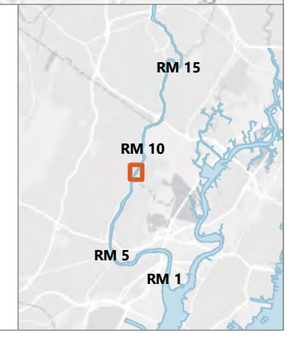
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

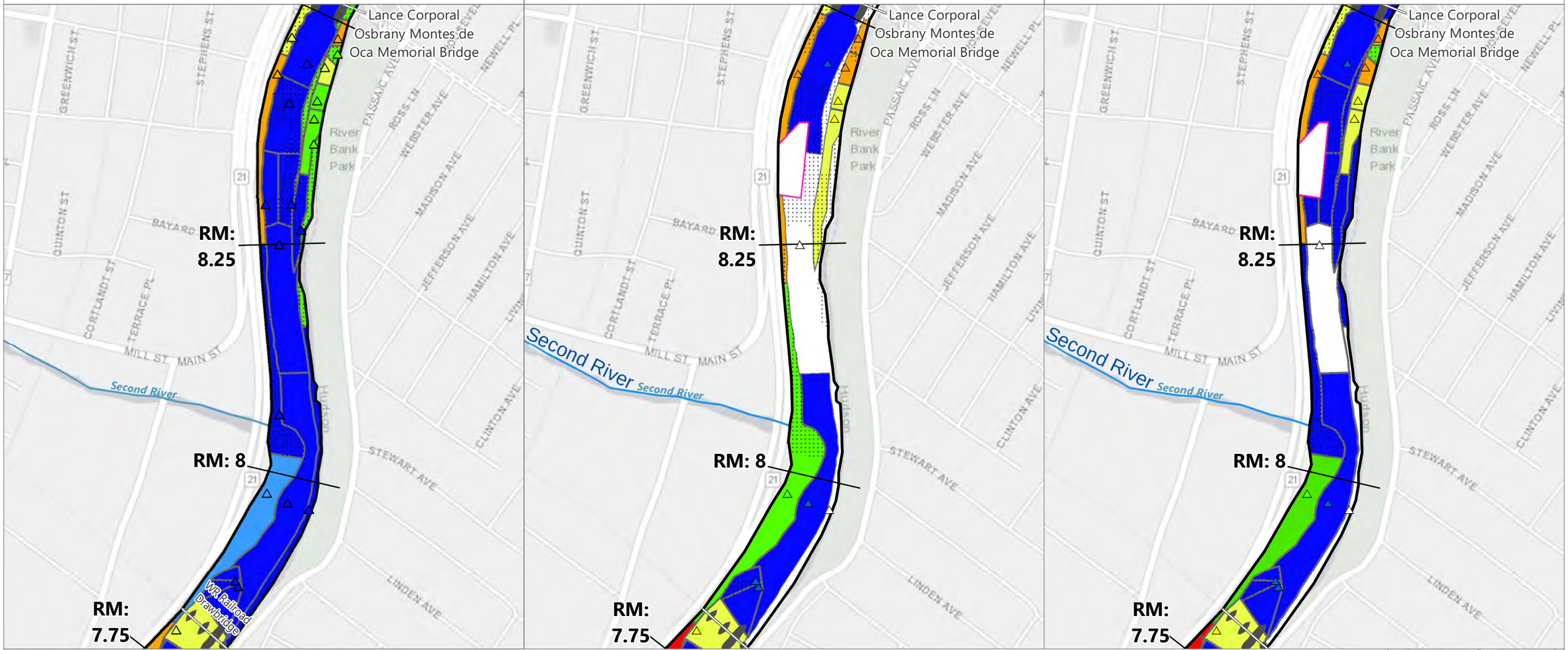
0 500
Feet



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Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15i
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A | **Old Thiessen Layer B** | **New Layer B With Resampling**

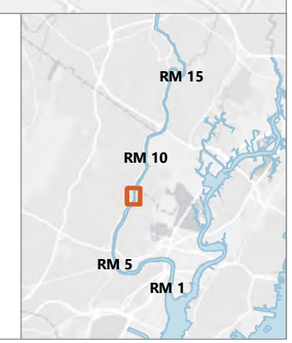


Legend:

1995 Dataset	2,3,7,8-TCDD Concentration (ng/kg)
2010 Dataset	0
Layer B Resampled	>0 - 100
Shallow Areas	101 - 250
Bridge Abutment	251 - 500
Shoreline	501 - 1,000
	1,001 - 10,000
	>10,000

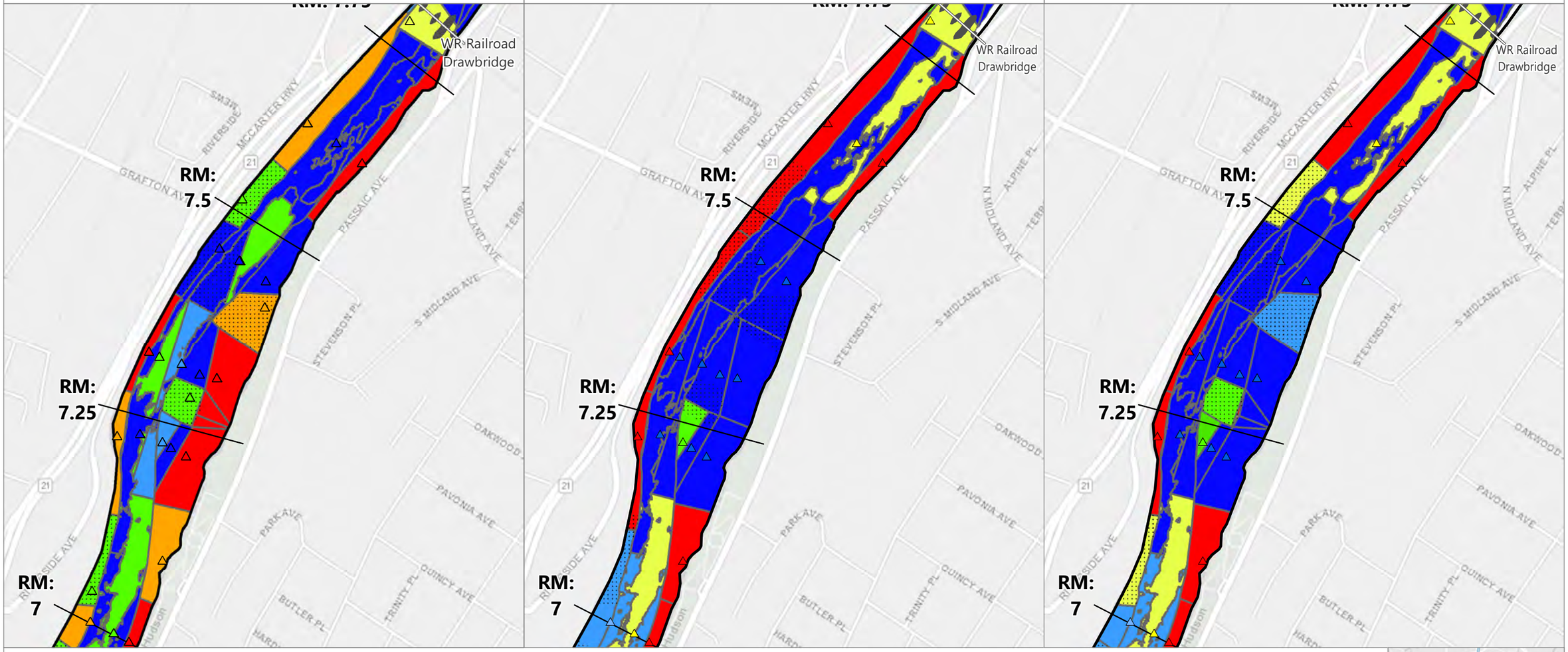
NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 550
Feet



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Figure 7-15j
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

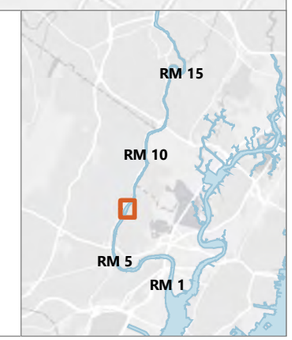


Legend:

1995 Dataset	2,3,7,8-TCDD Concentration (ng/kg)
2010 Dataset	0
Layer B Resampled	>0 - 100
Shallow Areas	101 - 250
Bridge Abutment	251 - 500
Shoreline	501 - 1,000
	1,001 - 10,000
	>10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

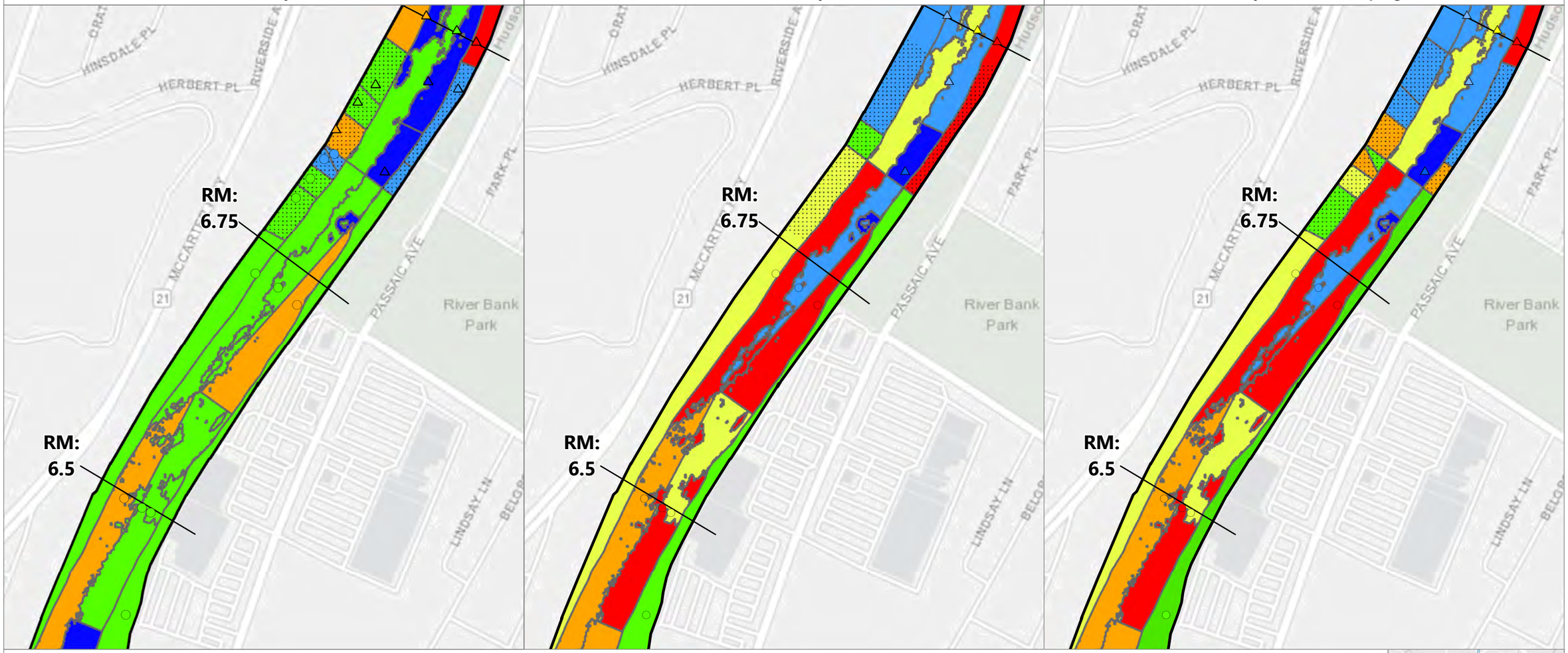
0 580
Feet



Publish Date: 2019/06/13, 7:10 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15k
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling



Legend:

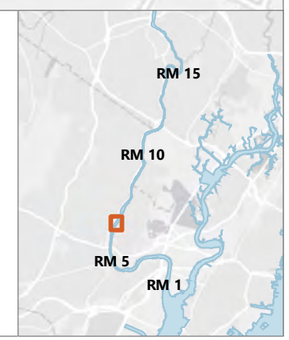
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

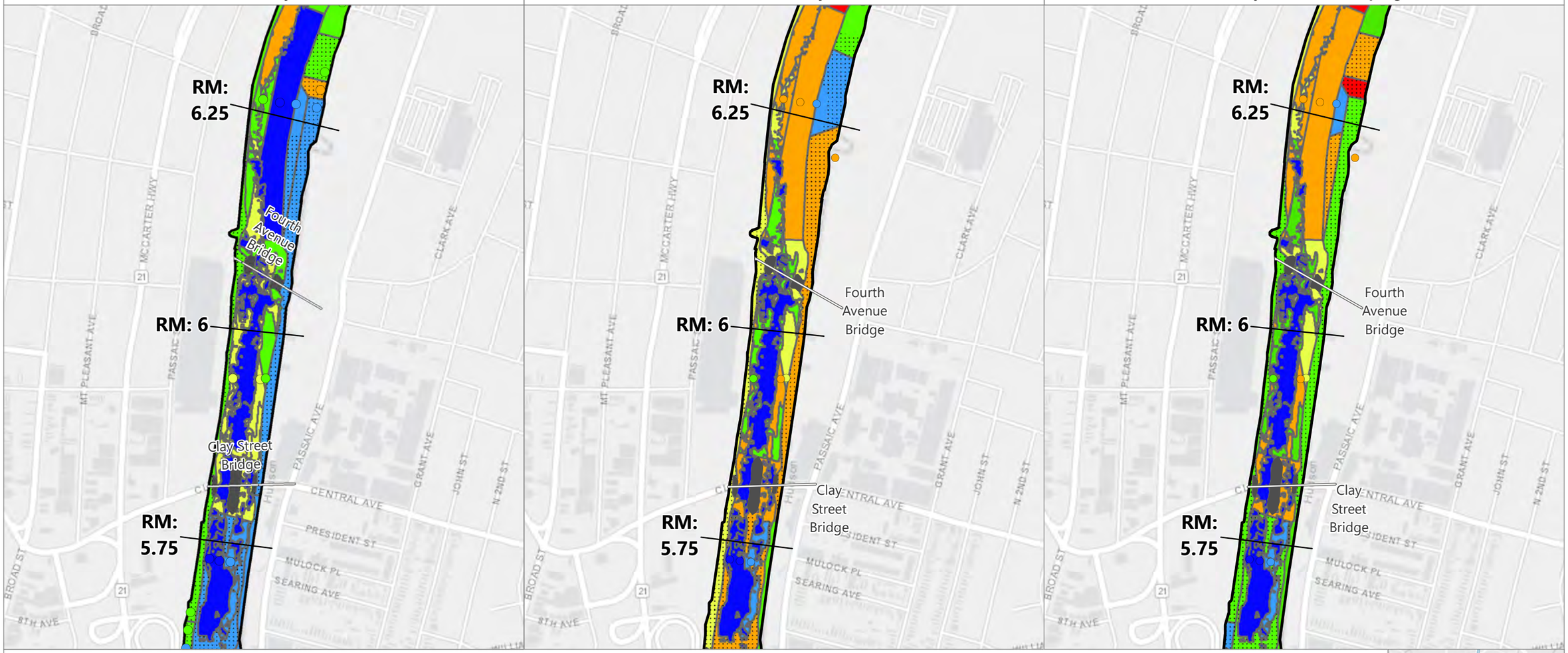
0 460
Feet



Publish Date: 2019/06/13, 7:10 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15I
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling



Legend:

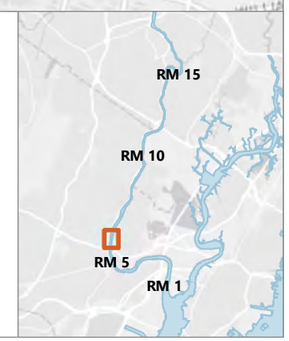
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

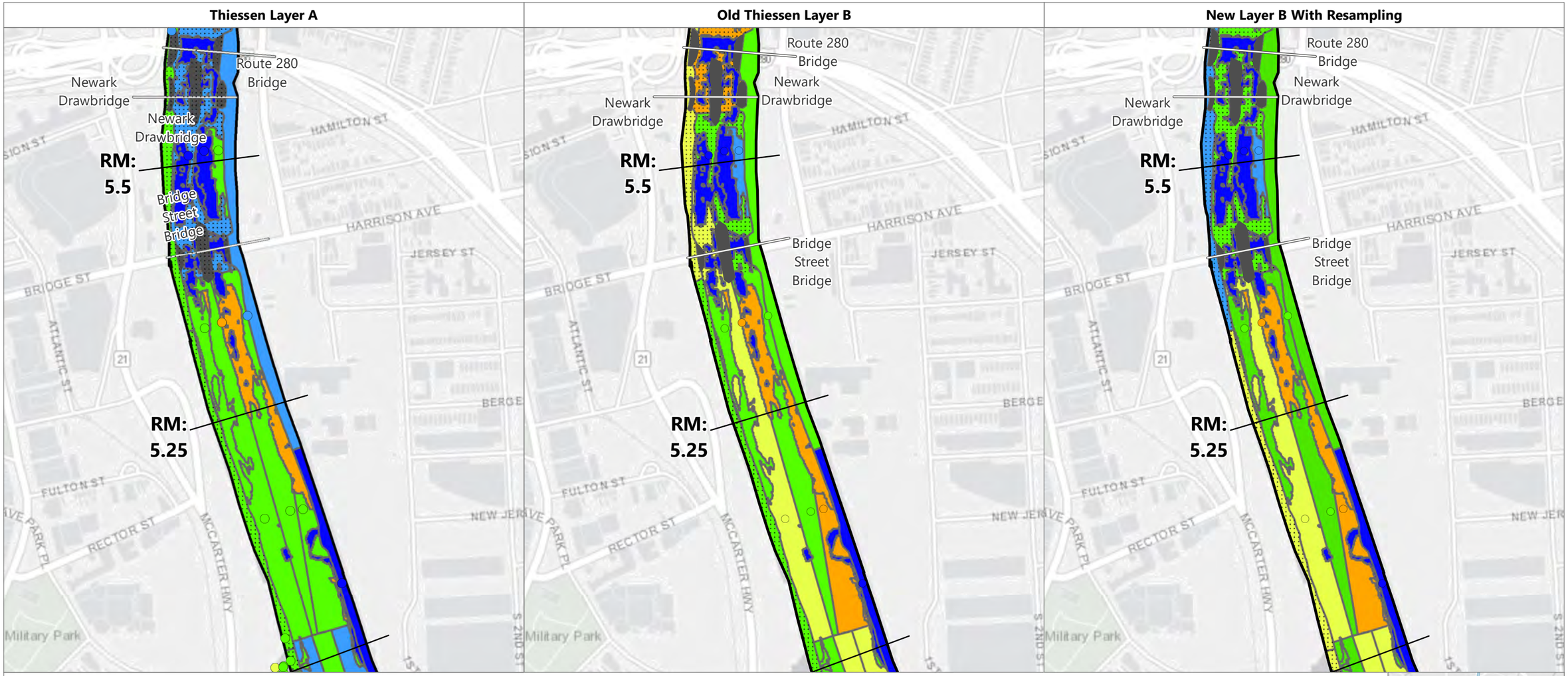
NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 600
Feet



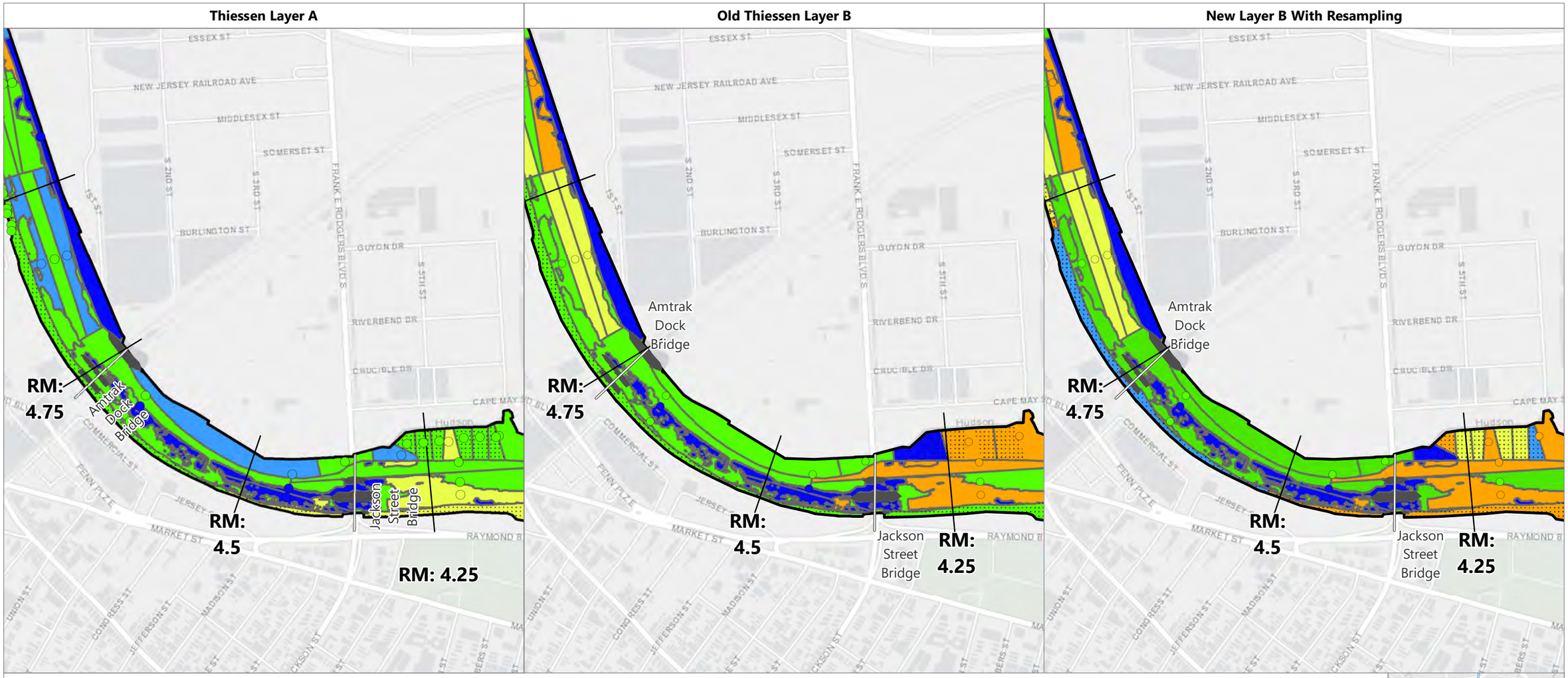
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Figure 7-15m
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-15n
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



Legend:

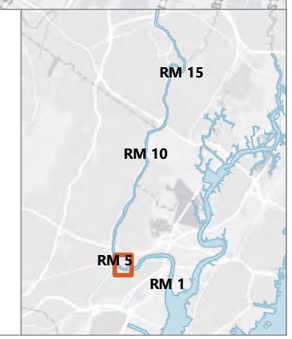
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

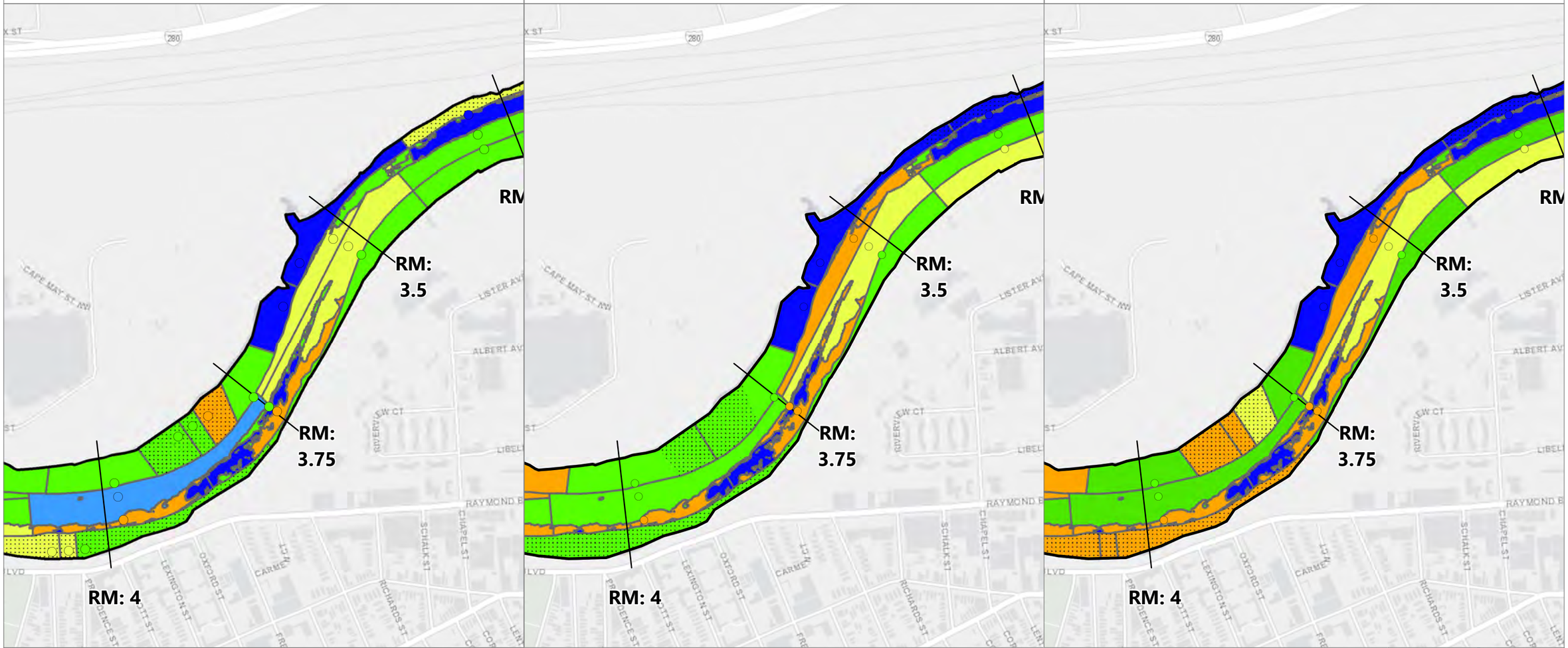
0 700
Feet



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Figure 7-15o
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling

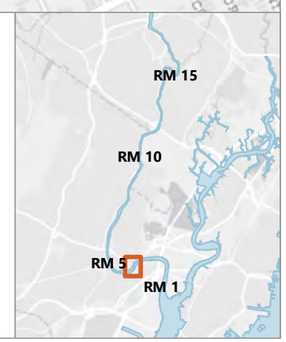


Legend:

1995 Dataset	2,3,7,8-TCDD Concentration (ng/kg)
2010 Dataset	0
Layer B Resampled	>0 - 100
Shallow Areas	101 - 250
Bridge Abutment	251 - 500
Shoreline	501 - 1,000
	1,001 - 10,000
	>10,000

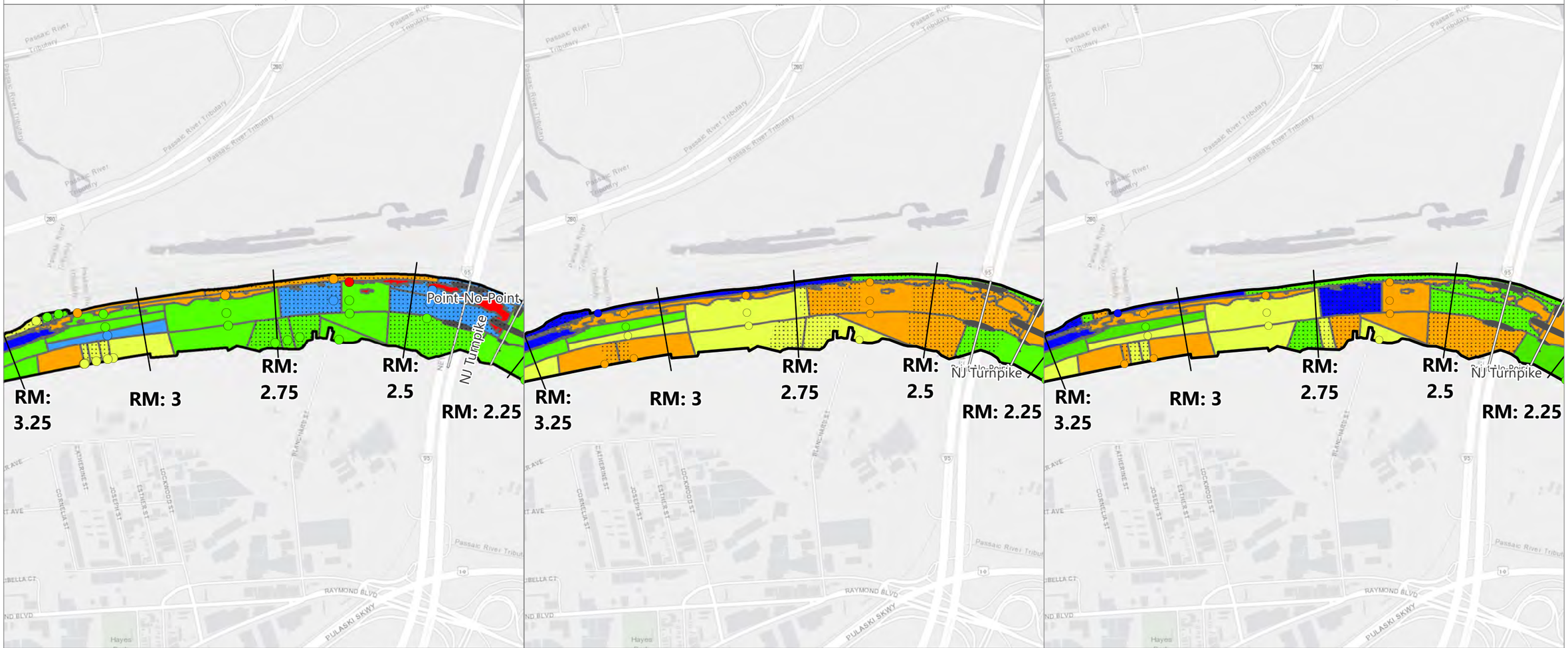
NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 660
Feet



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Figure 7-15p
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-15q
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A

Old Thiessen Layer B

New Layer B With Resampling



Legend:

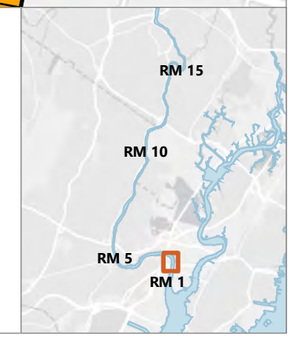
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

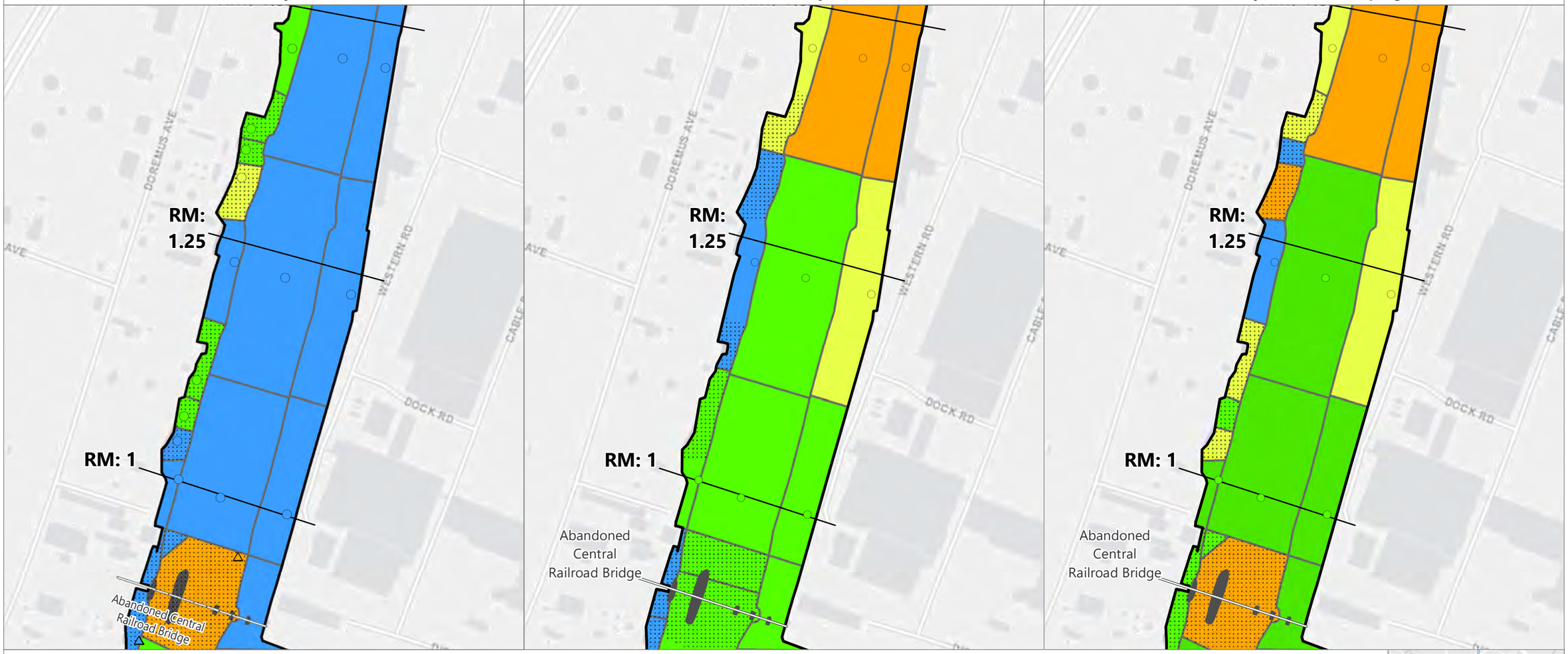
0 620
Feet



Publish Date: 2019/06/13, 7:12 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15r
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

Thiessen Layer A	Old Thiessen Layer B	New Layer B With Resampling



Legend:

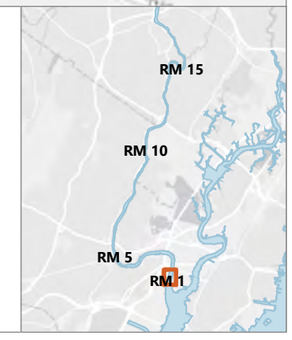
- 1995 Dataset
- 2010 Dataset
- Layer B Resampled
- Shallow Areas
- Bridge Abutment
- Shoreline

2,3,7,8-TCDD Concentration (ng/kg)

- 0
- >0 - 100
- 101 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 10,000
- >10,000

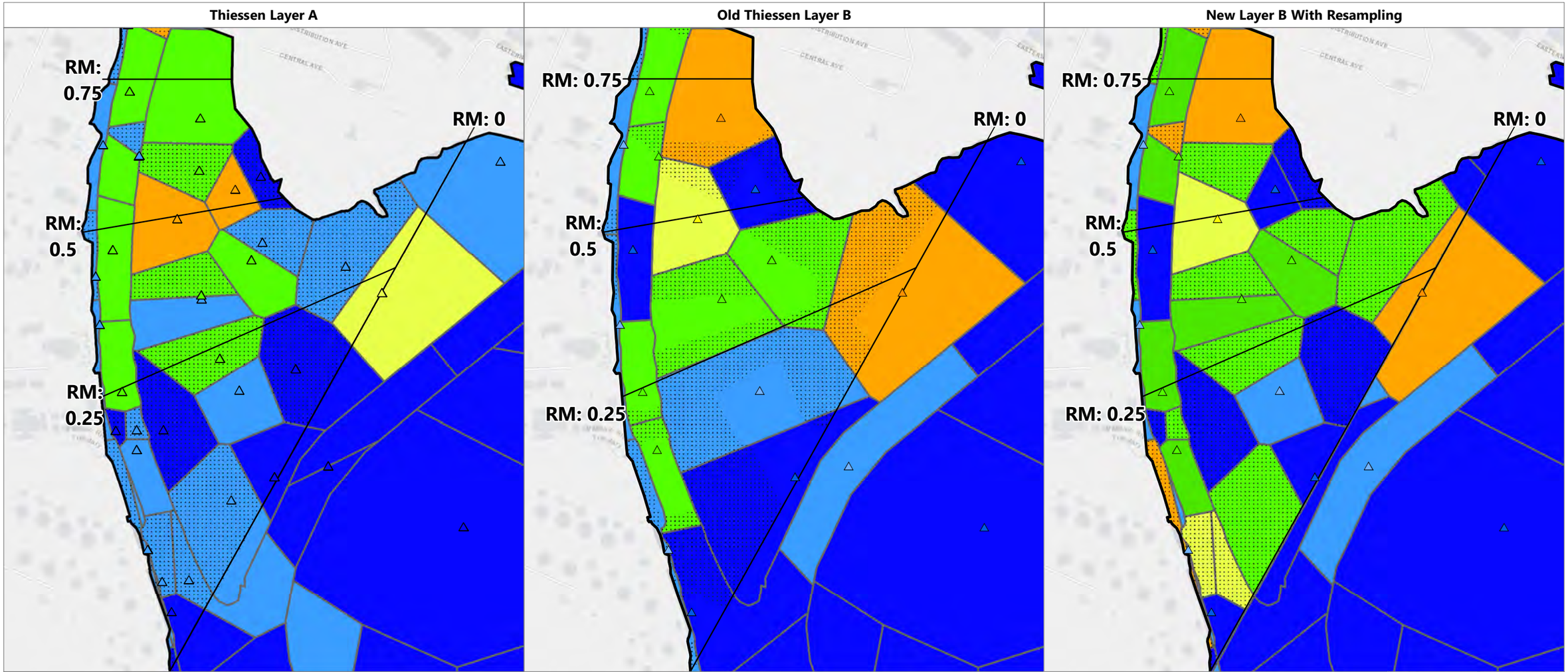
NOTE:
Areas where layer B was resampled are shown for illustrative purposes on all three panels.

0 520
Feet



Publish Date: 2019/06/13, 7:12 PM | User: dbaker
Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\Appendix_J\mxds_new\Figure_7-15_3Panel_Interp_Comparison_1995_.mxd

Figure 7-15s
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-15t
1995 Mapping Comparison: Layer A and Old and New Layer B
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study