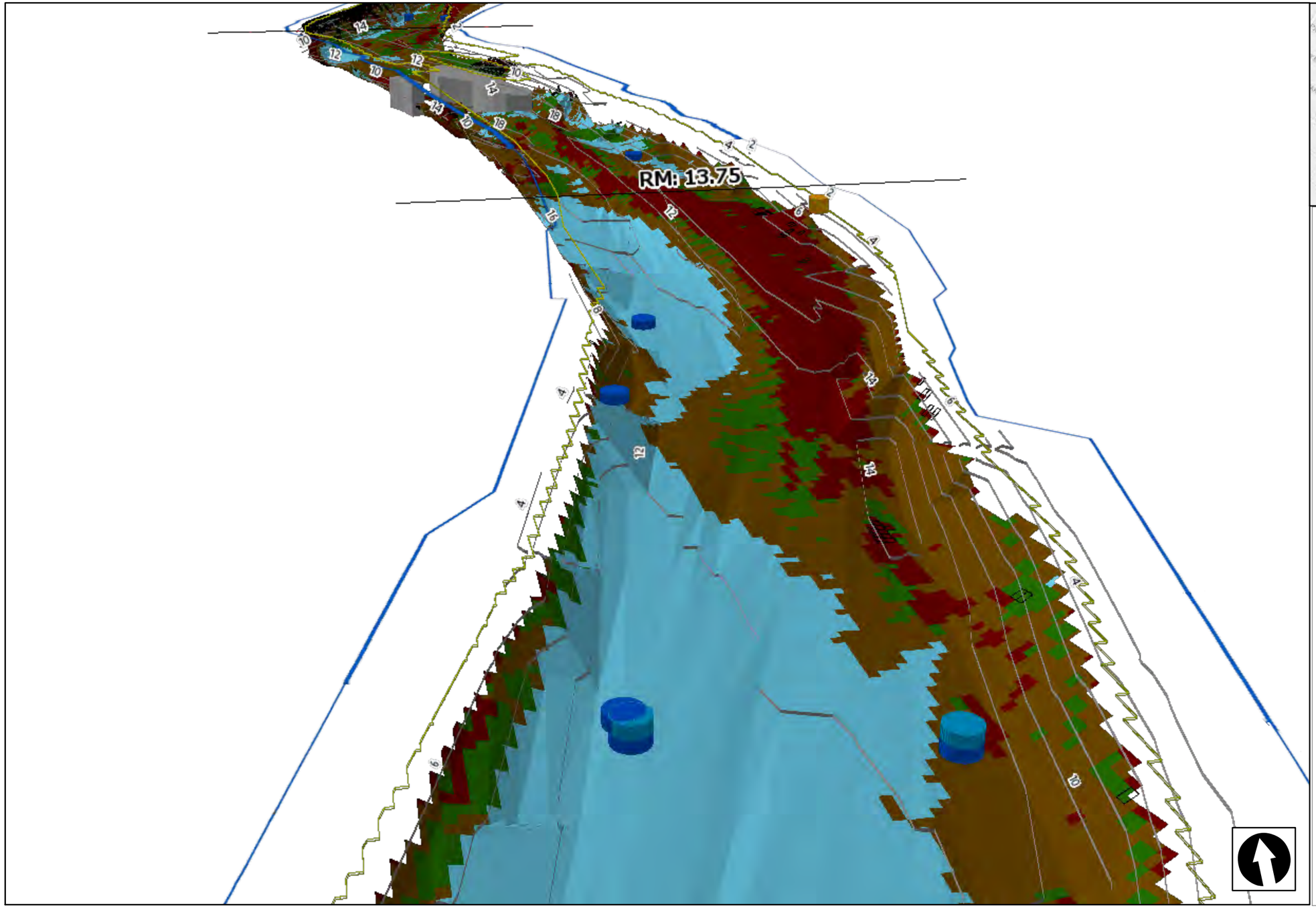
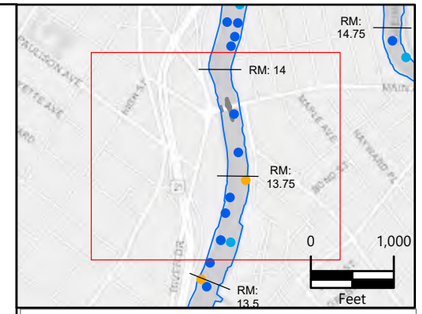
Appendix K
Section 4 Supporting Figures





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
*A start year of 2007 and end year of 2012 was used for the multi-beam bathymetry. A start year of 2004 and end year of either 2013 or 2012 was used for single-beam bathymetry. Erosion > 1.5 feet is based on the difference between 2007 to 2012 or between the sequential bathymetry surveys in that period. Bathymetry categories are described in Section 4.1. The multi-beam bathymetry data evaluated at the 5-foot by 5-foot resolution shown here is used to distinguish differences greater than 6 inches between surveys. See Appendix A for a discussion of bathymetric uncertainty. White areas have no bathymetric change category. Contour labels are feet below mean sea level (NGVD 29). Cores located in the TCRA Area were subjected to remediation in 2013-2014.

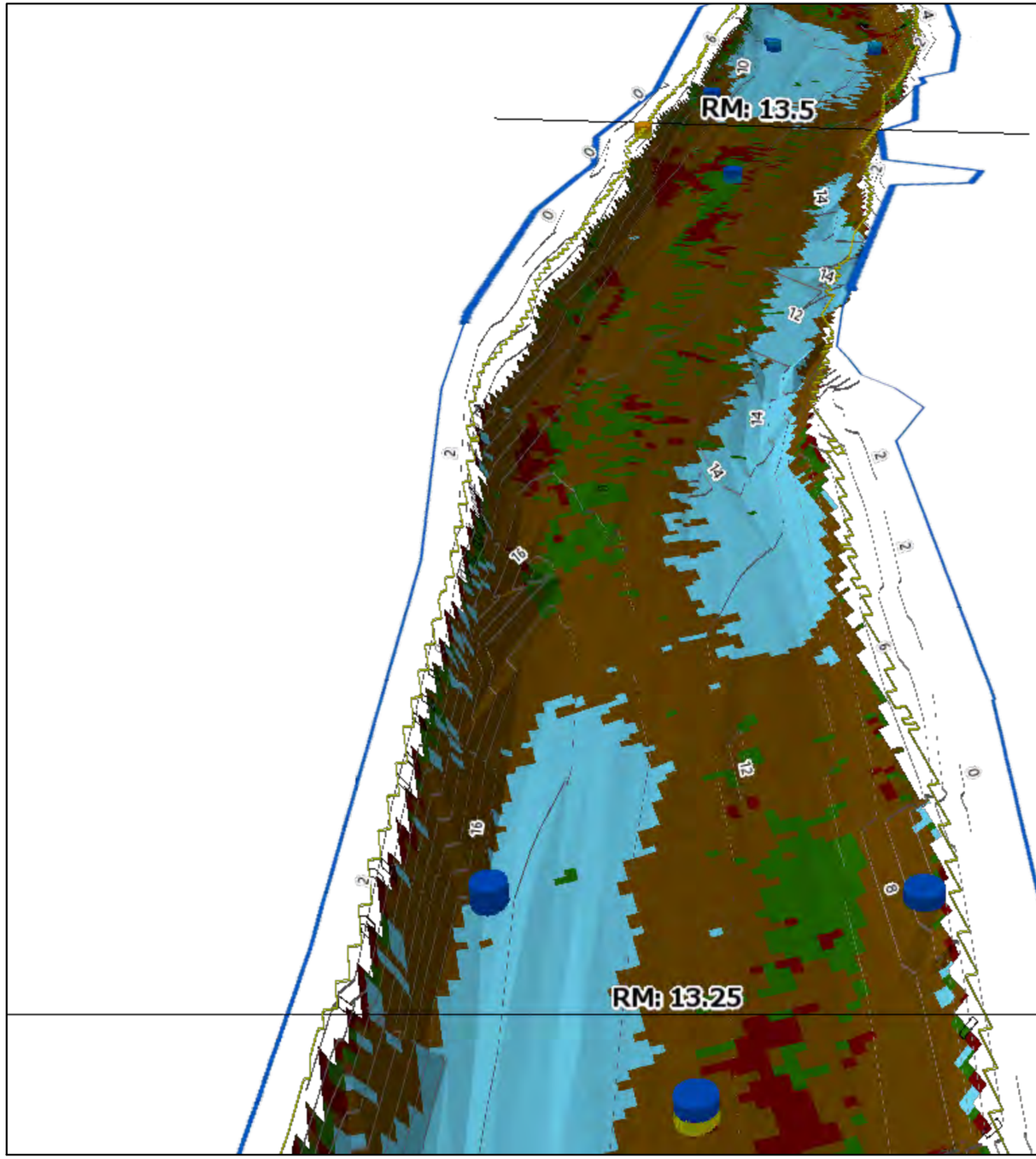
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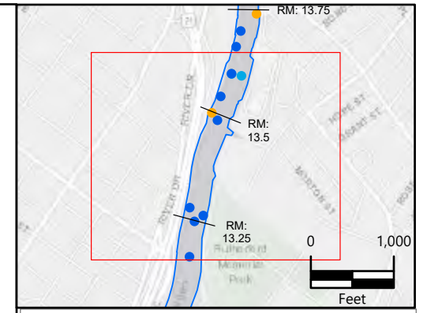
Figure 1-1a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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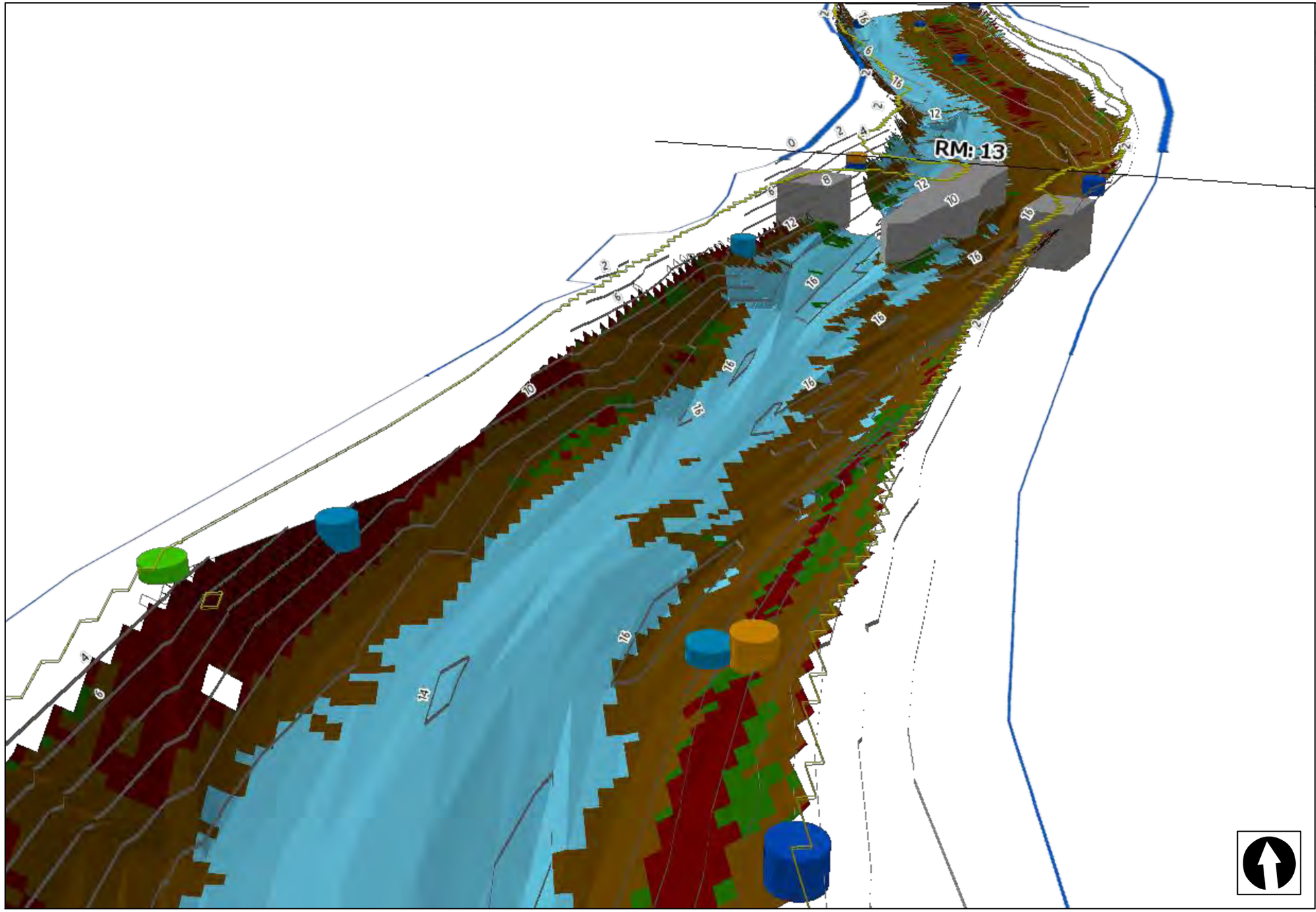
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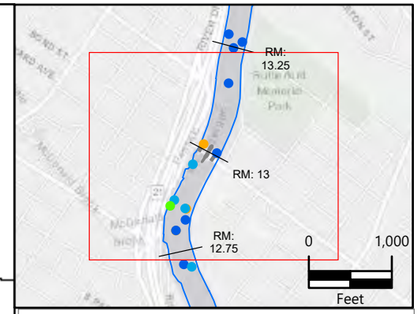
Figure 1-1b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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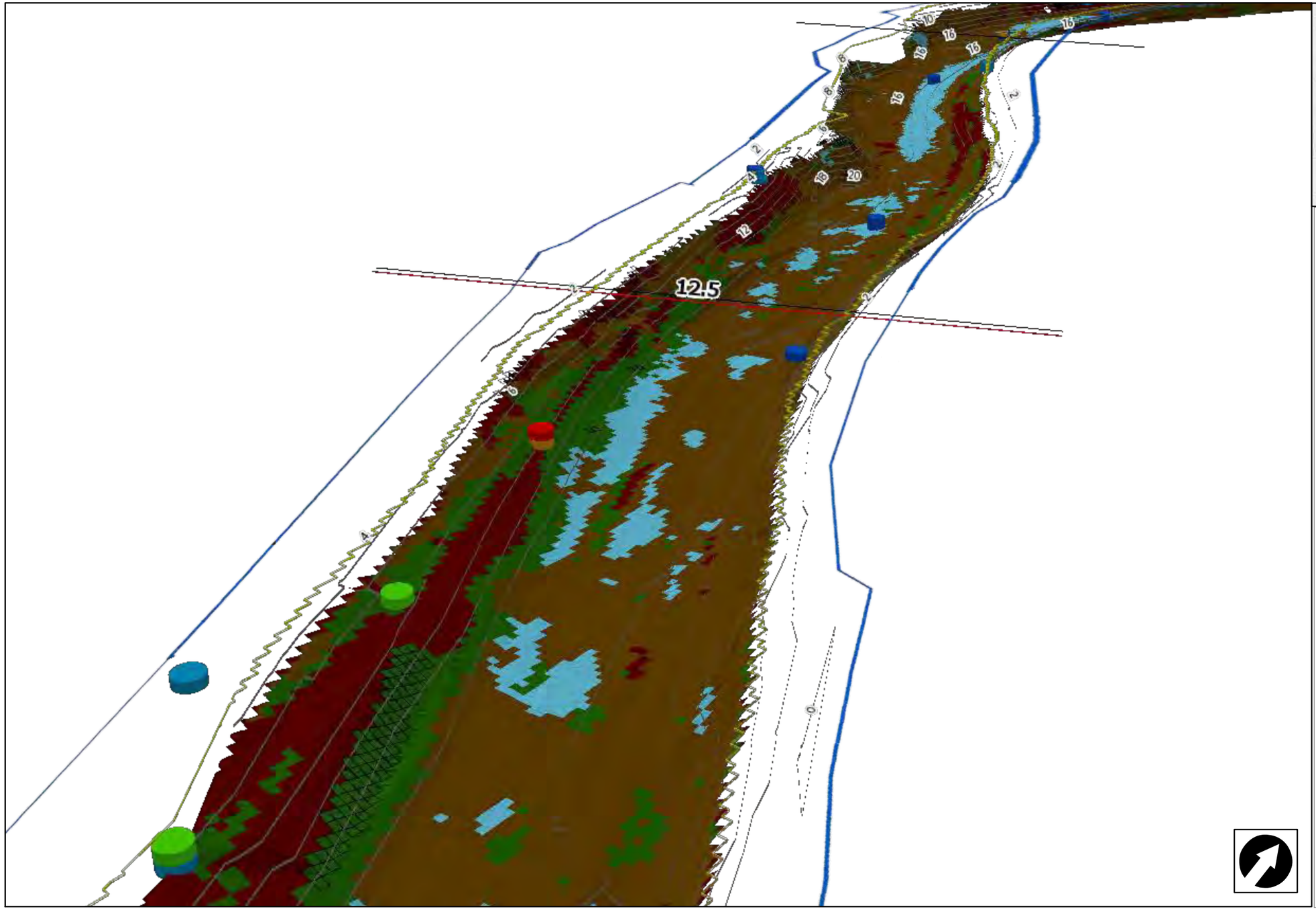
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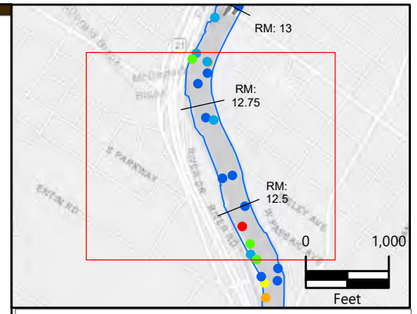
Figure 1-1c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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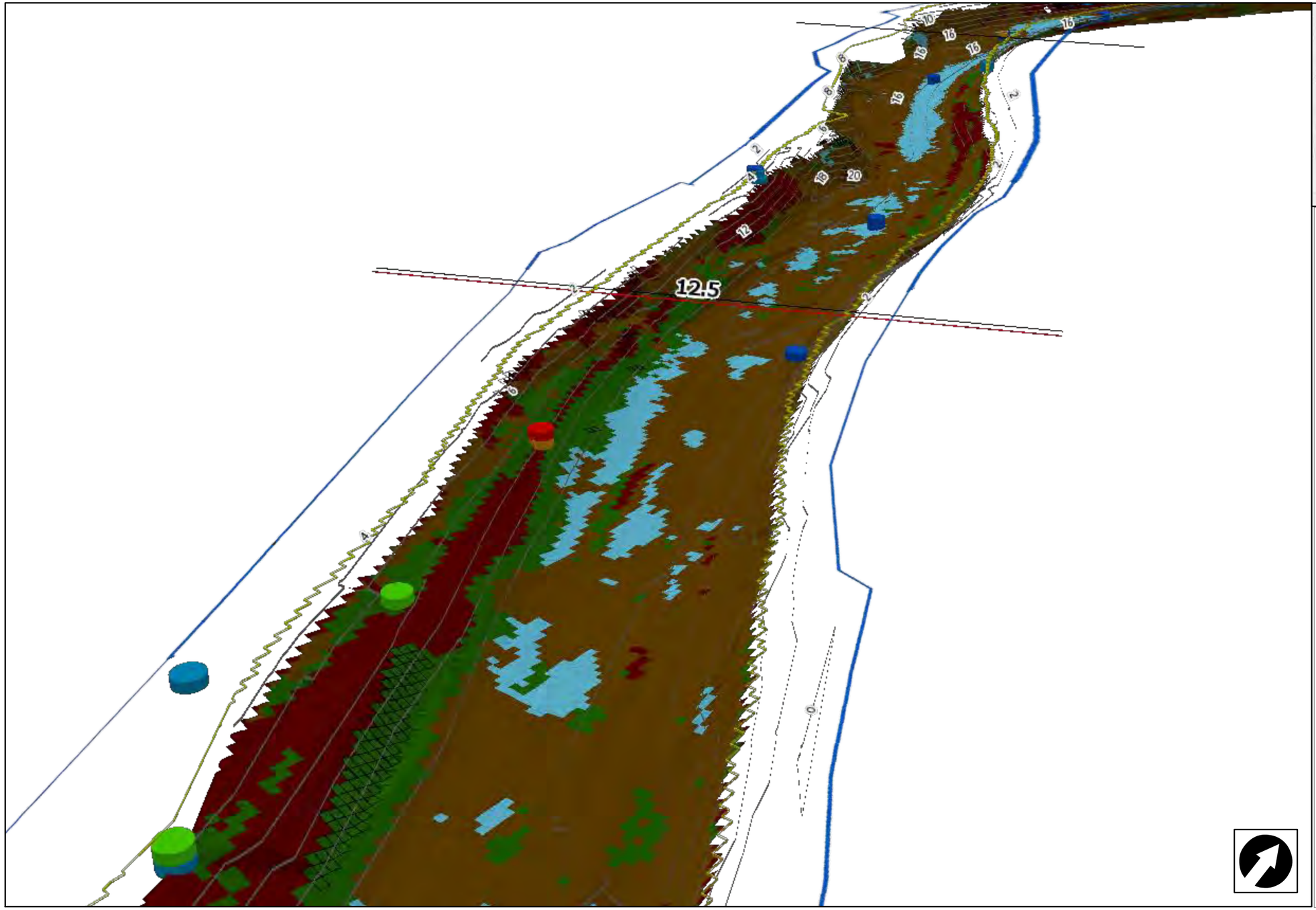
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Figure 1-1d

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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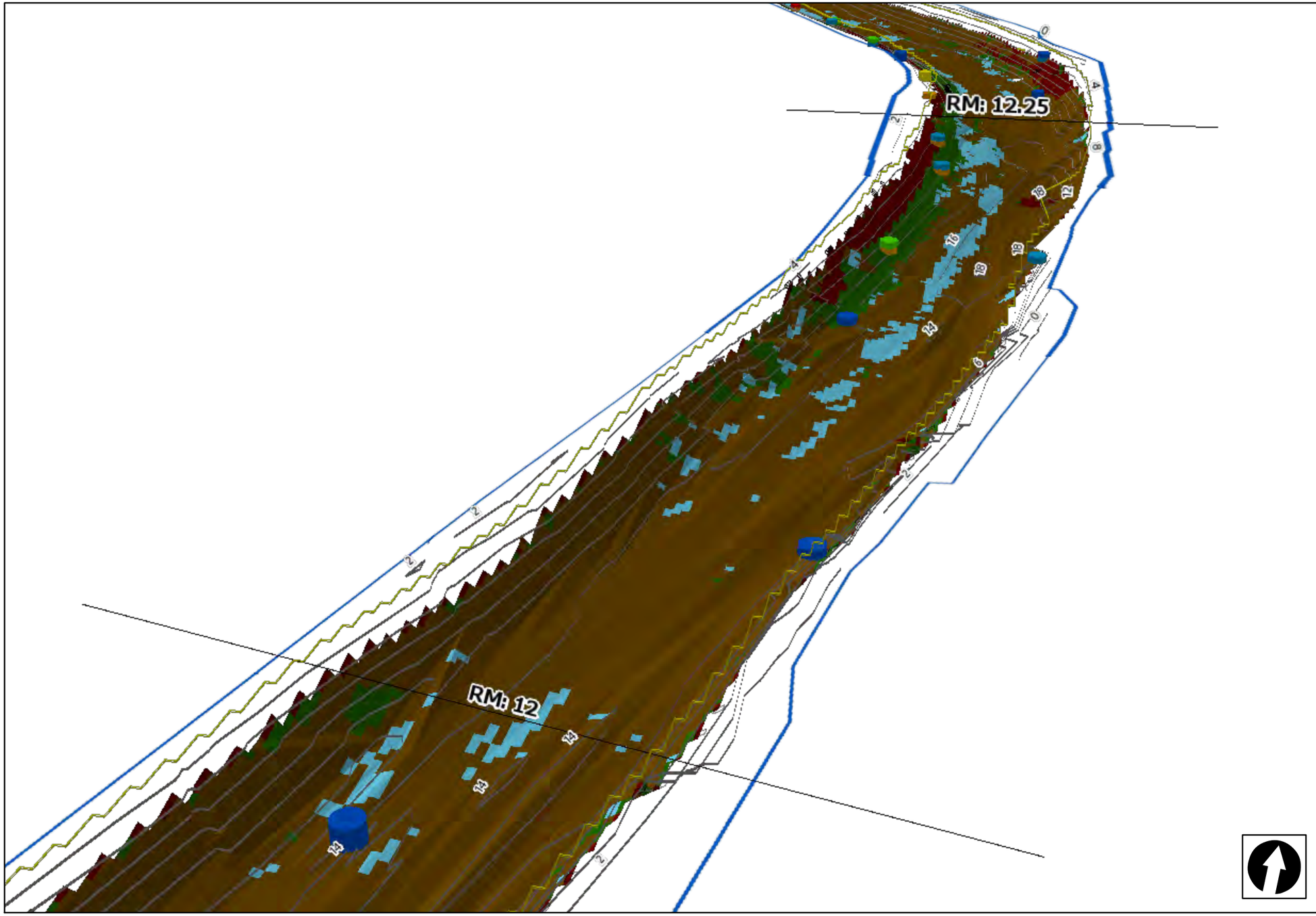
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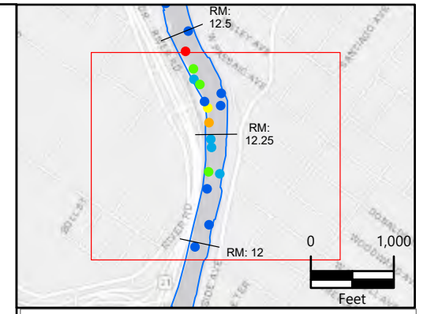
Figure 1-2a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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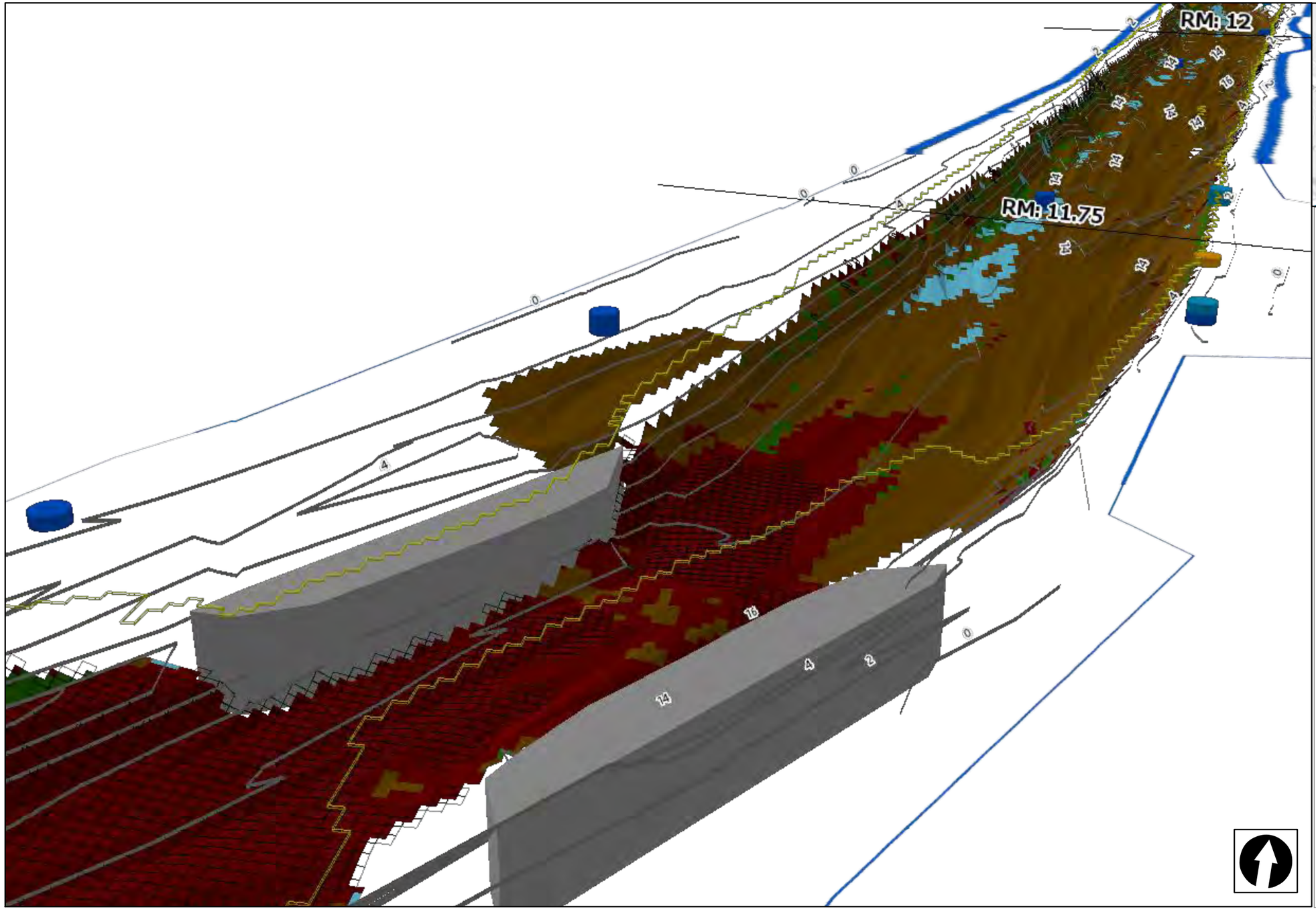
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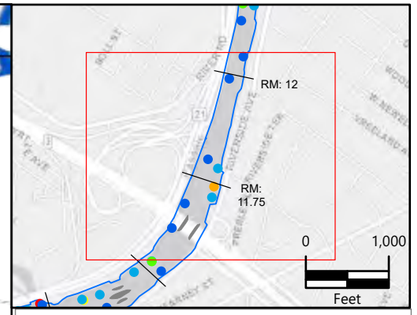
Figure 1-2b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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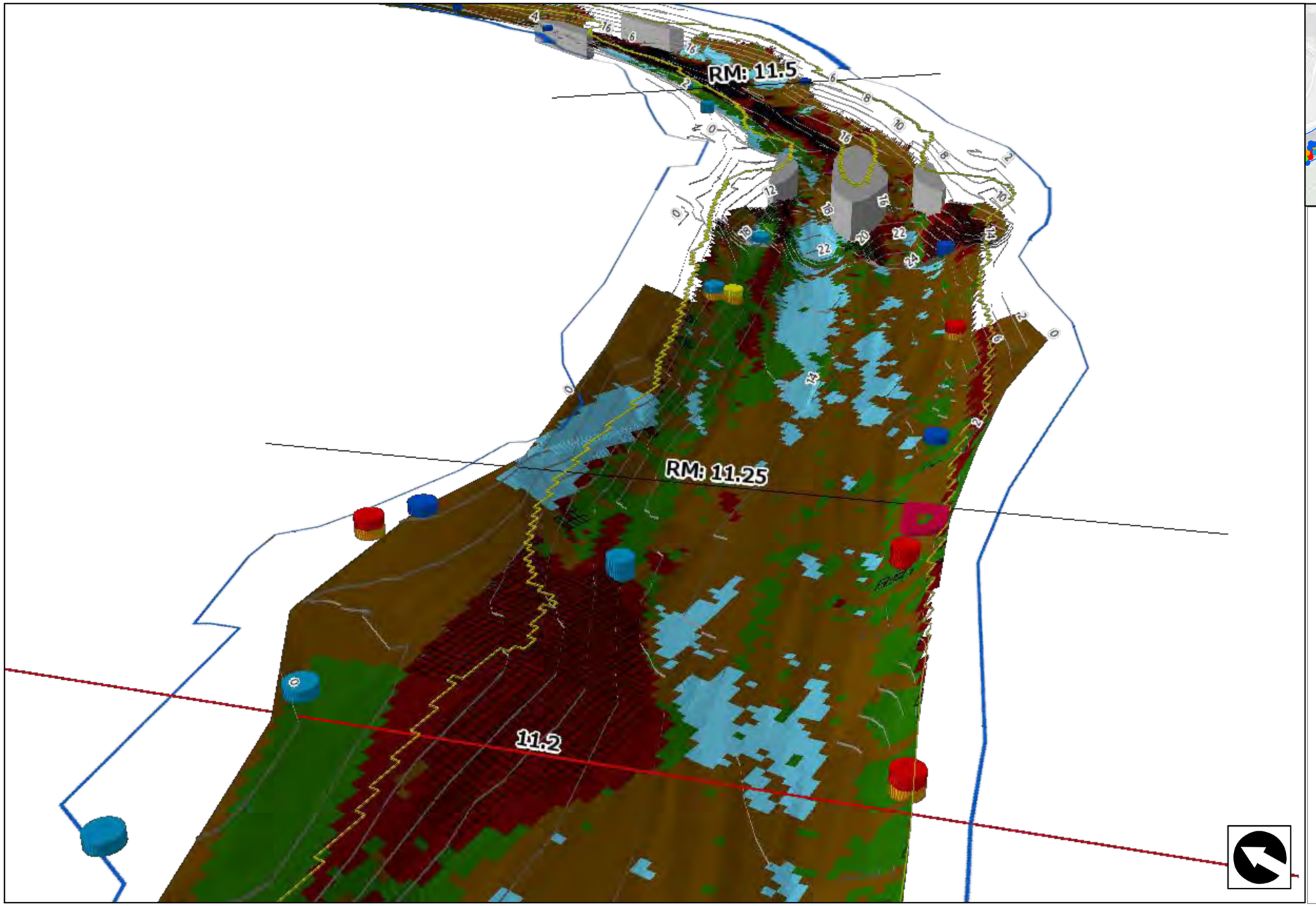
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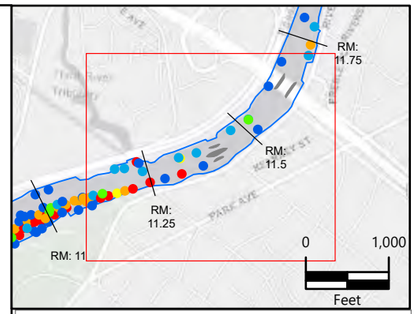
Figure 1-2c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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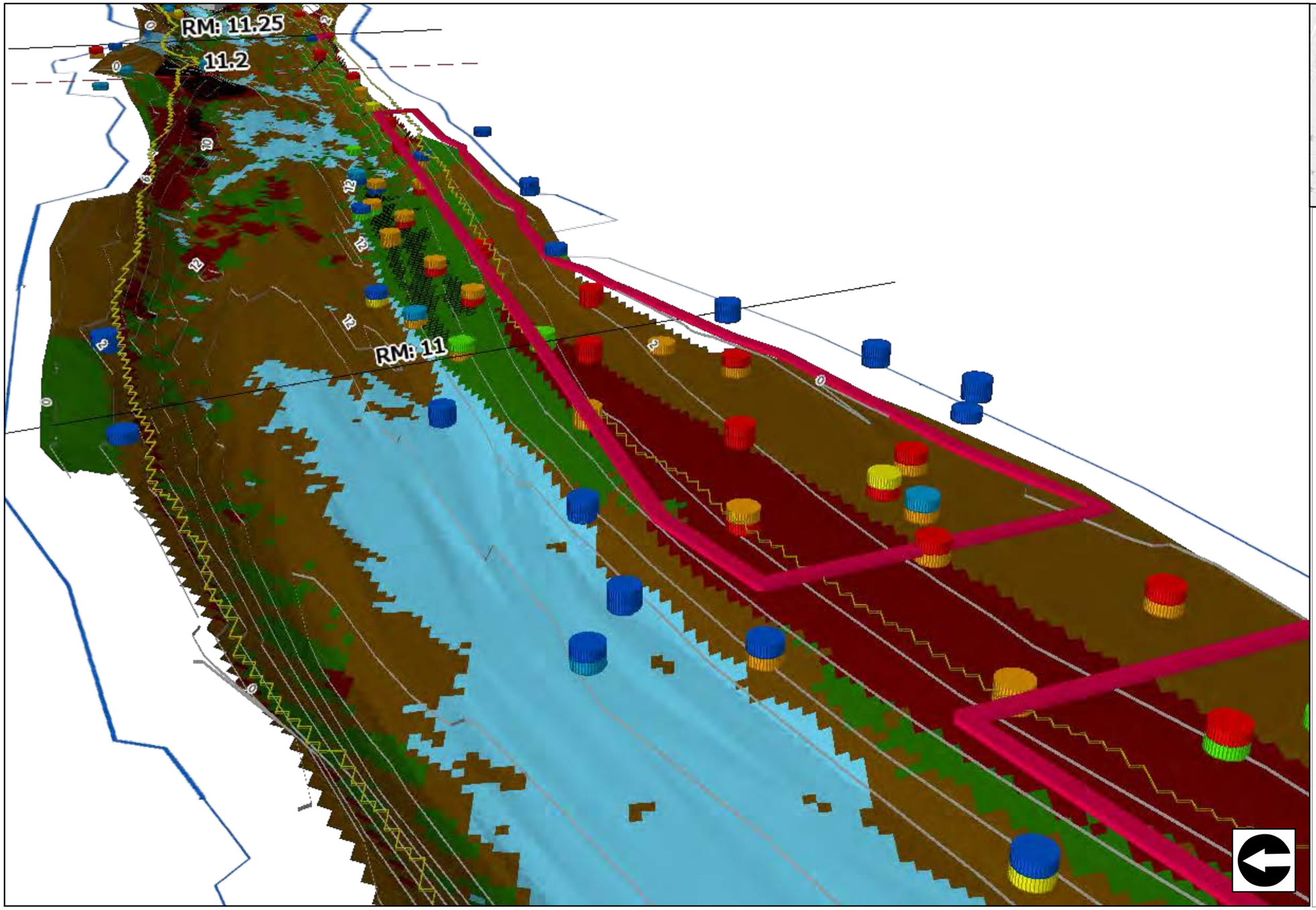
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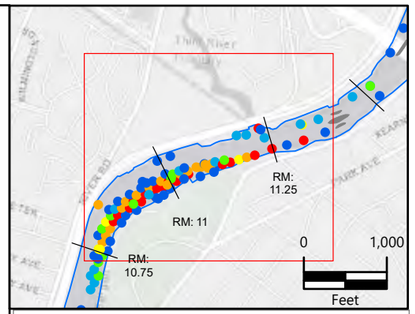
Figure 1-2d

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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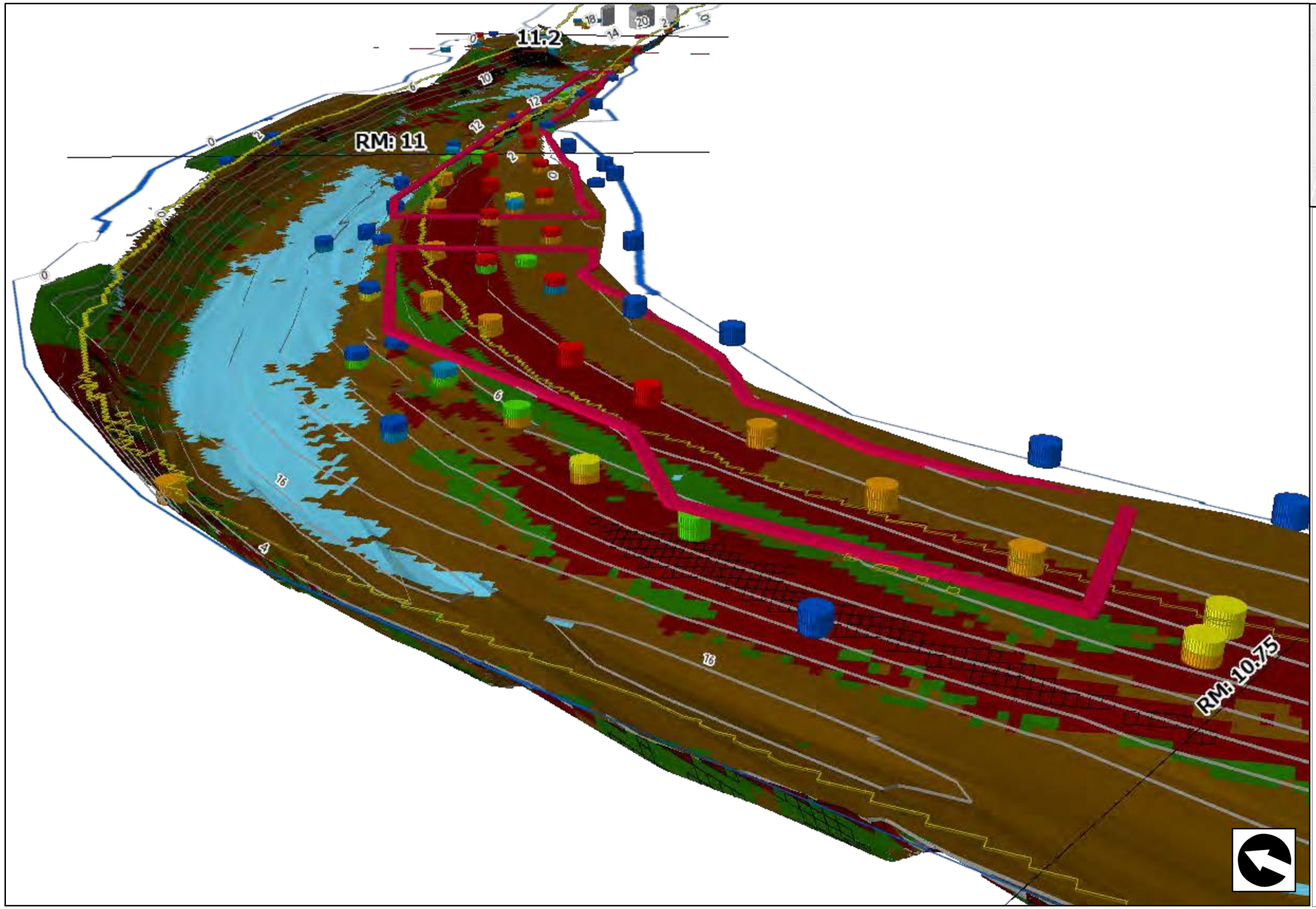
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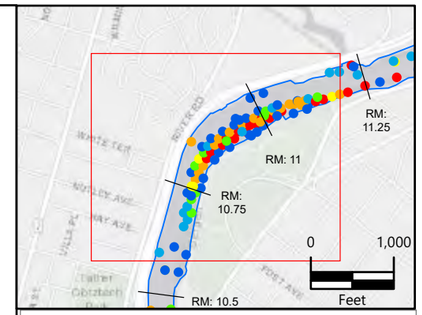
Figure 1-3a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:

The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.

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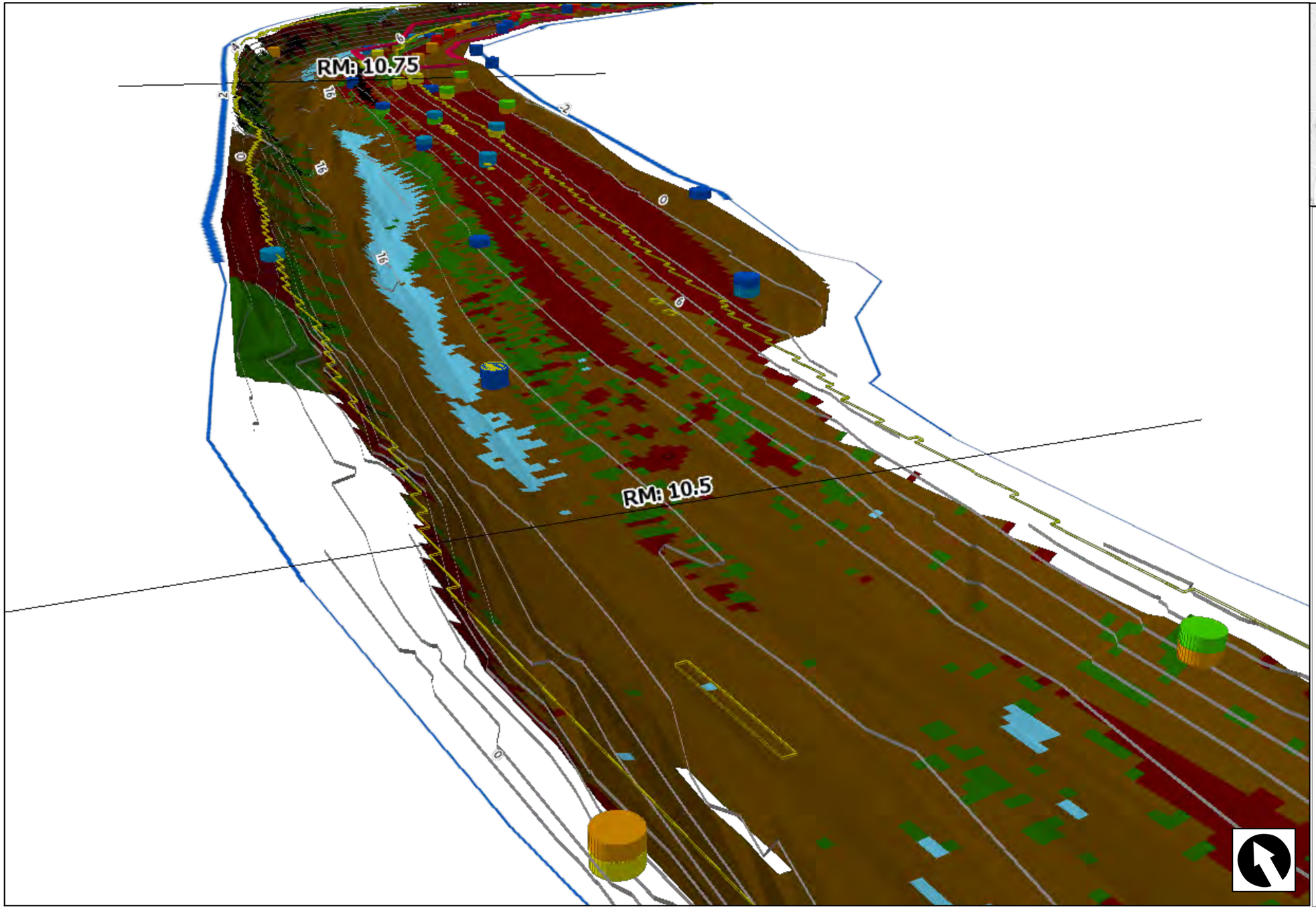
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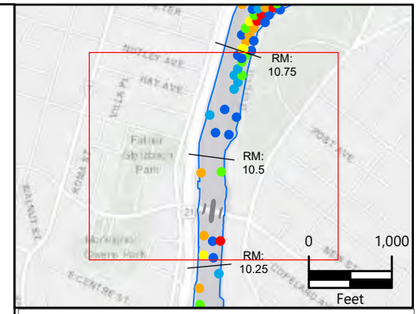
Figure 1-3b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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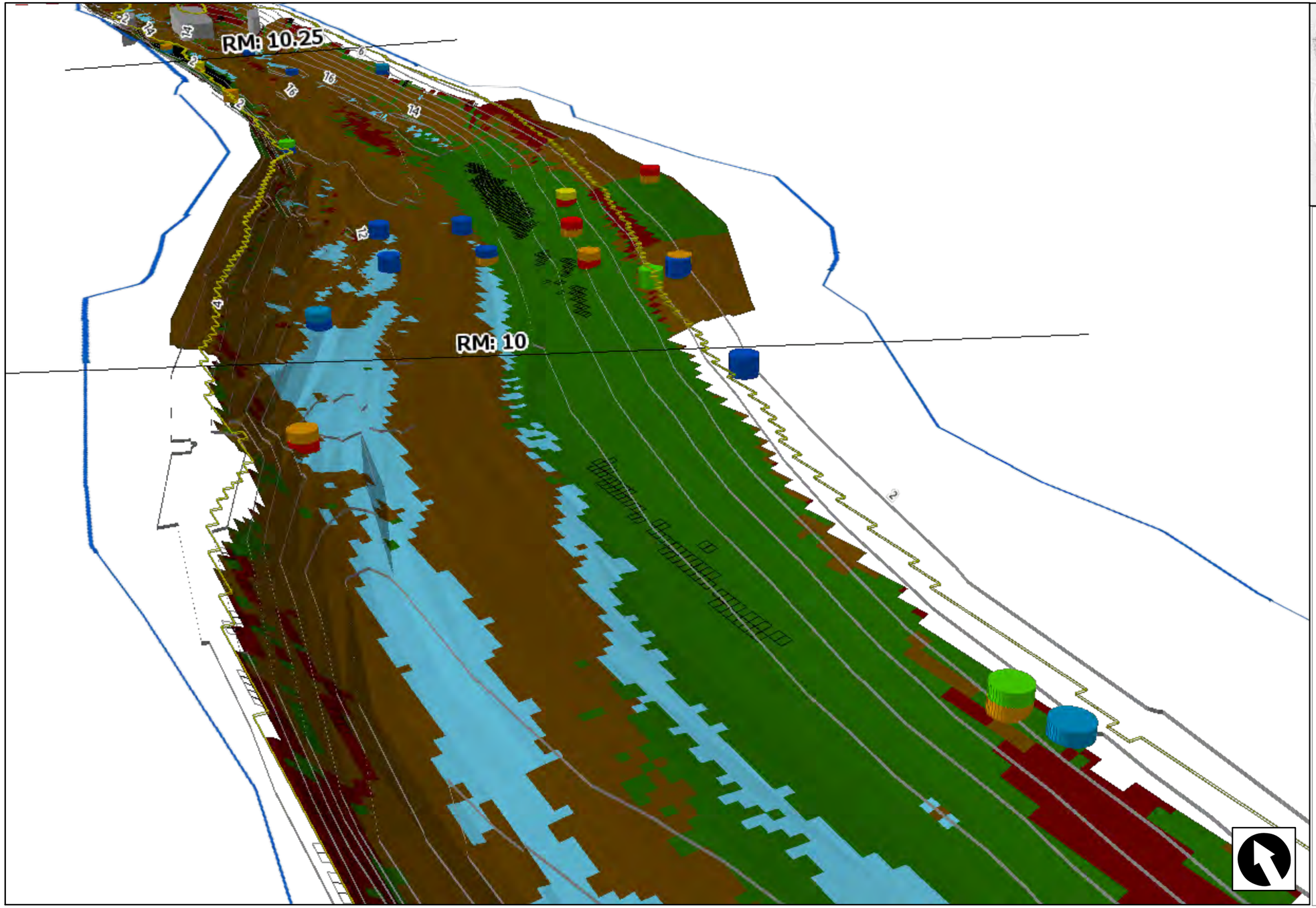
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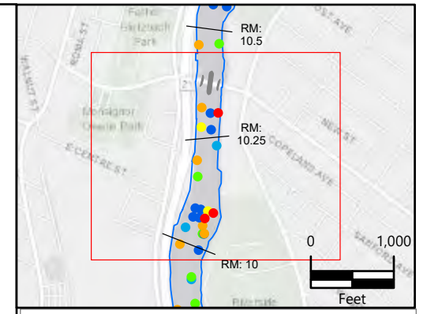
Figure 1-3c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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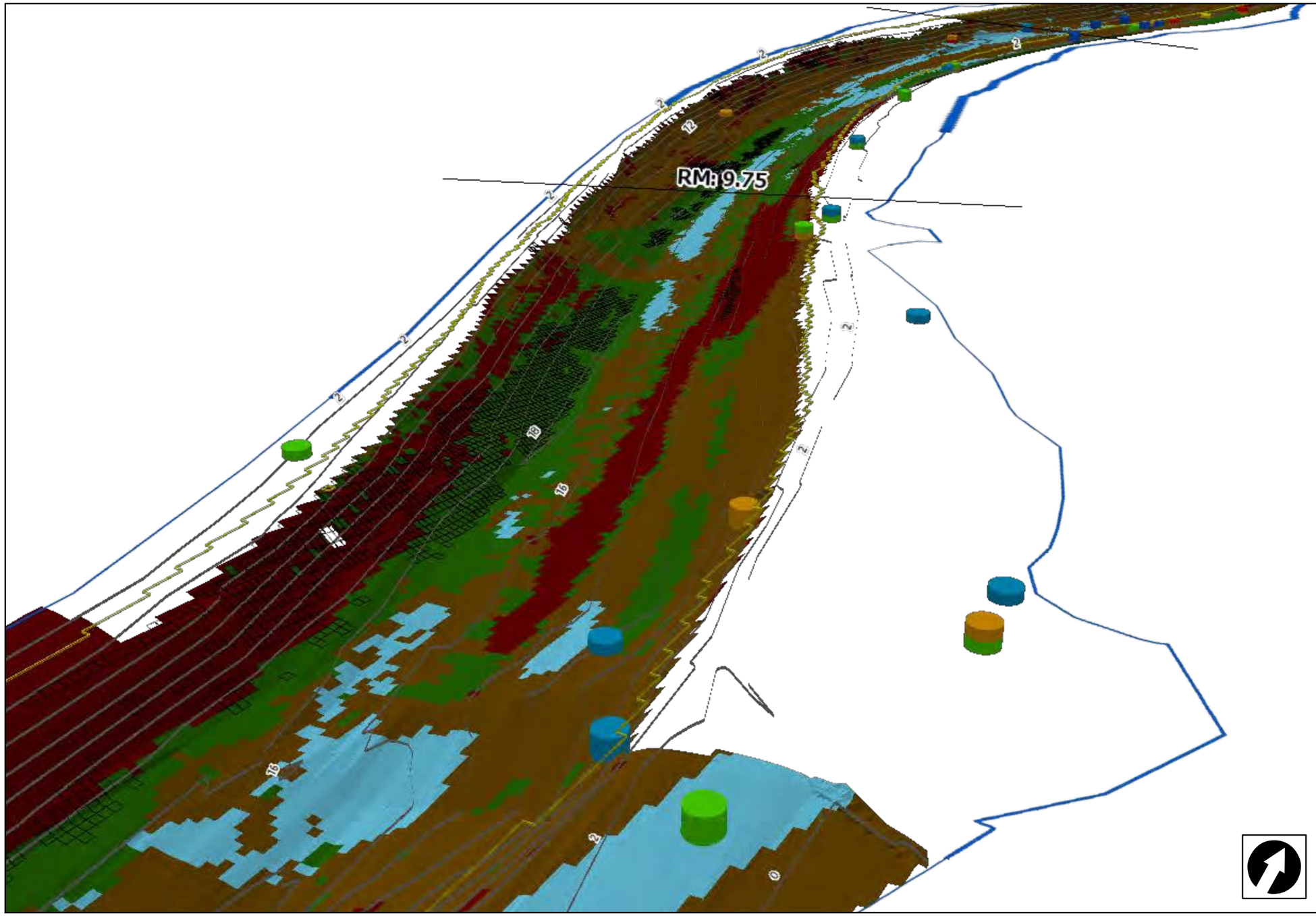
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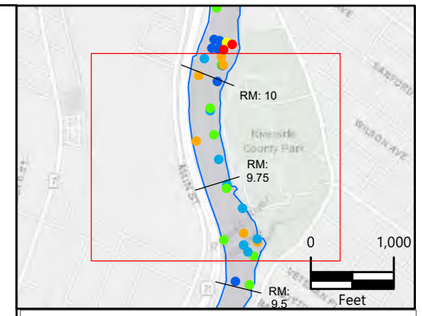
Figure 1-4a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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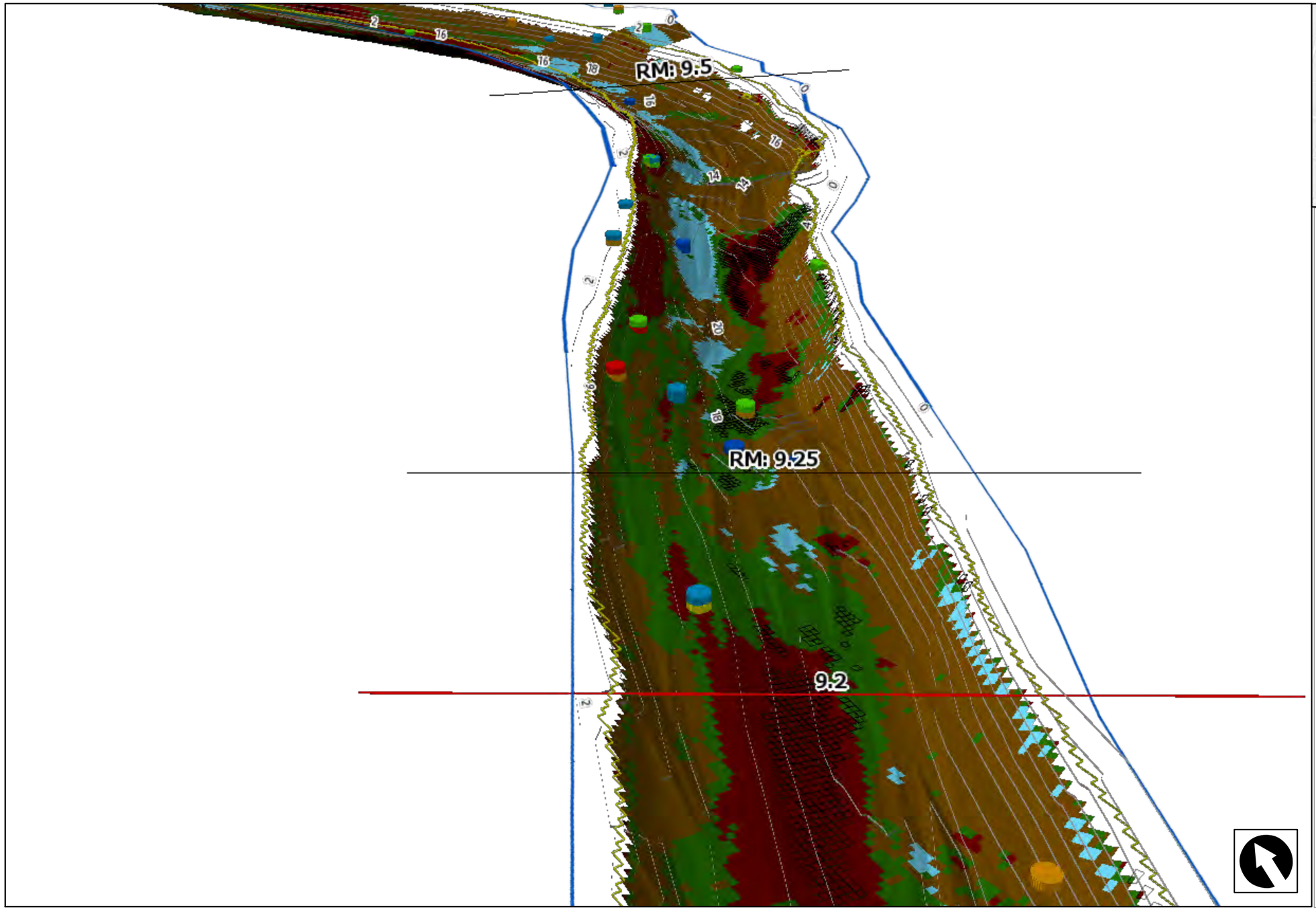
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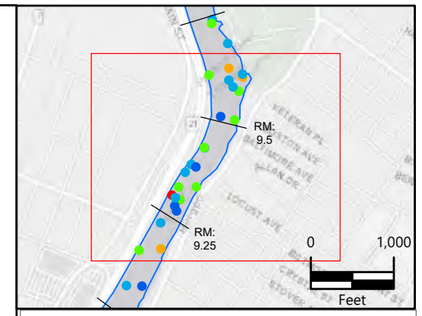
Figure 1-4b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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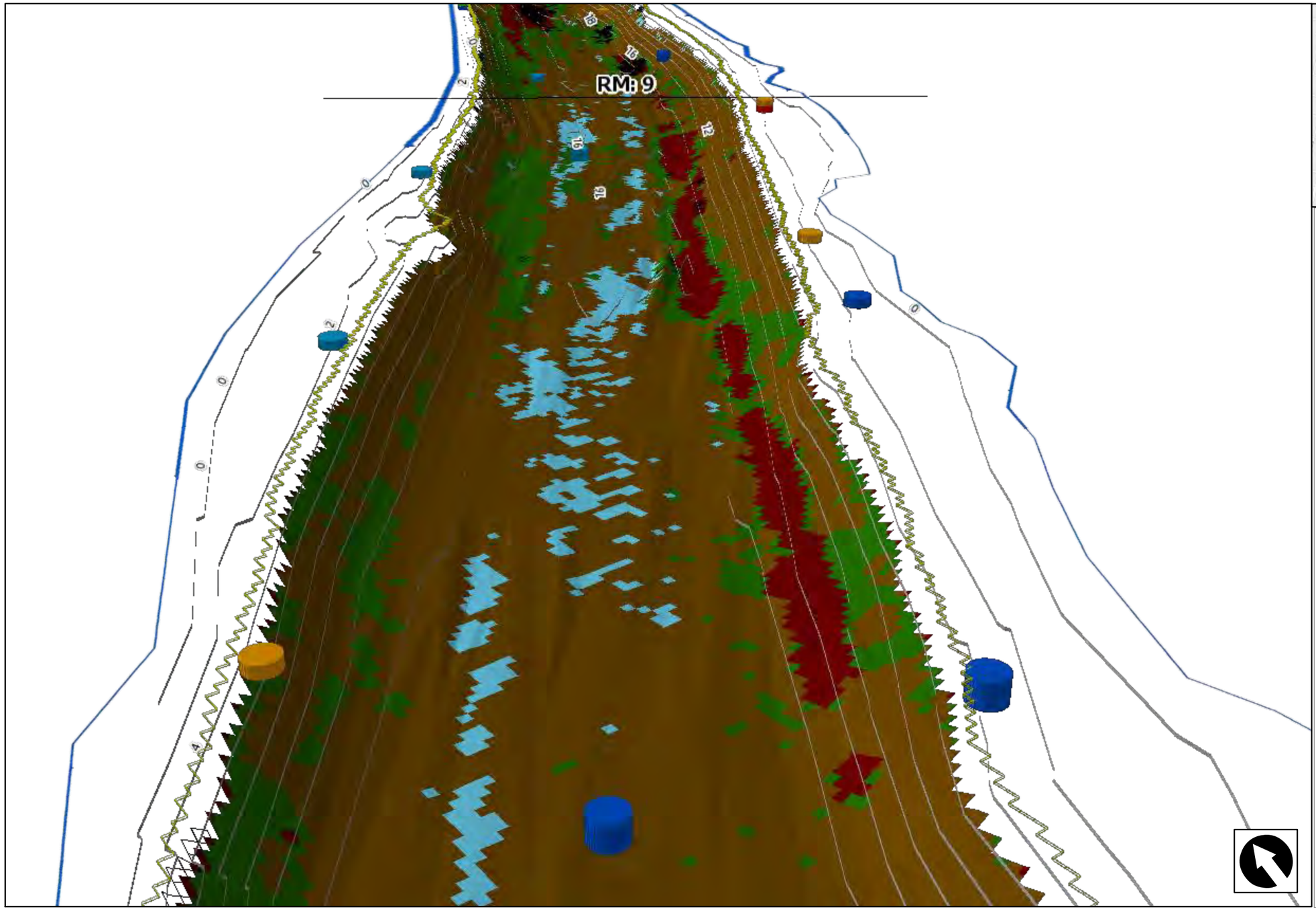
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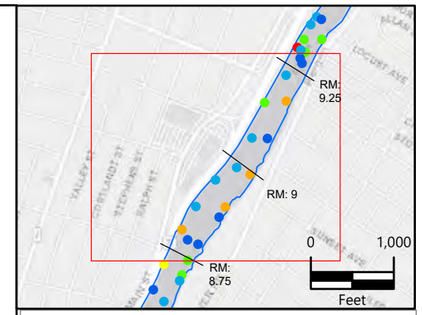
Figure 1-4c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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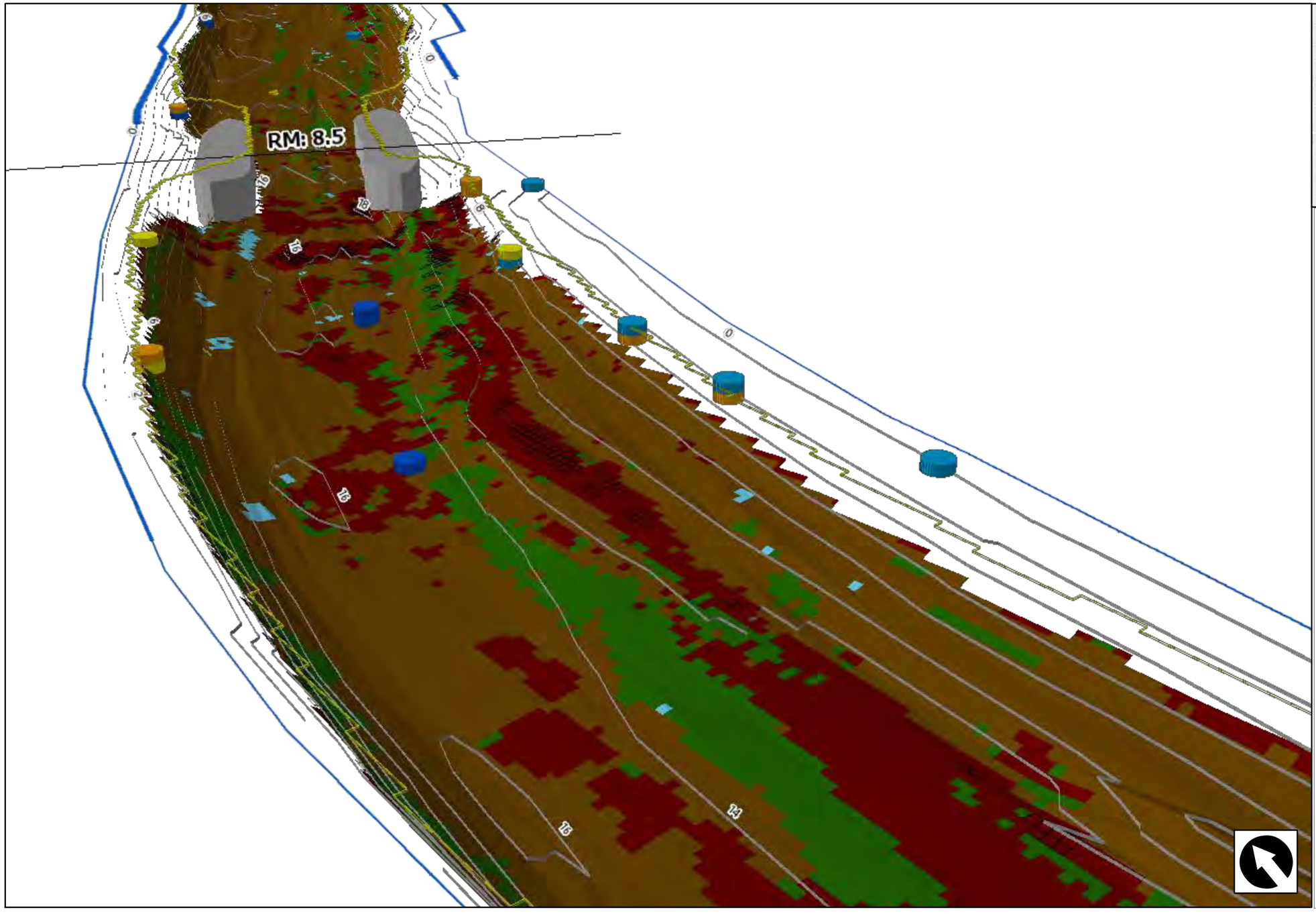
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Figure 1-5a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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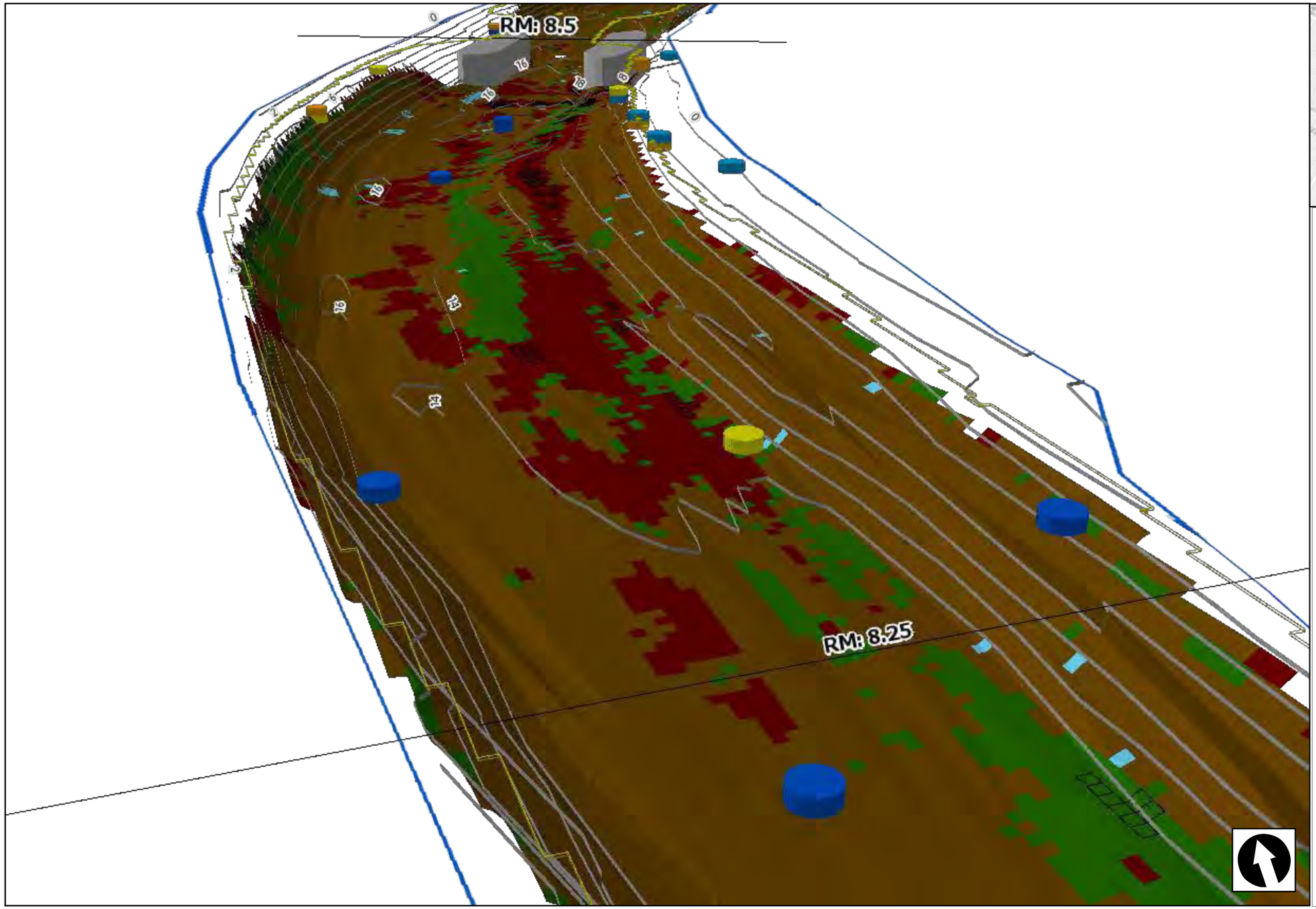
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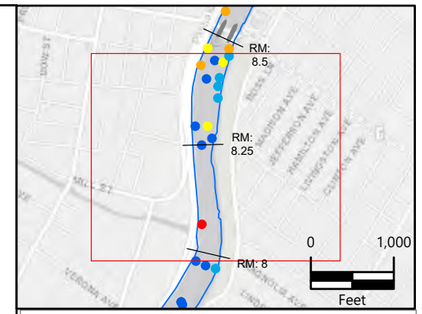
Figure 1-5b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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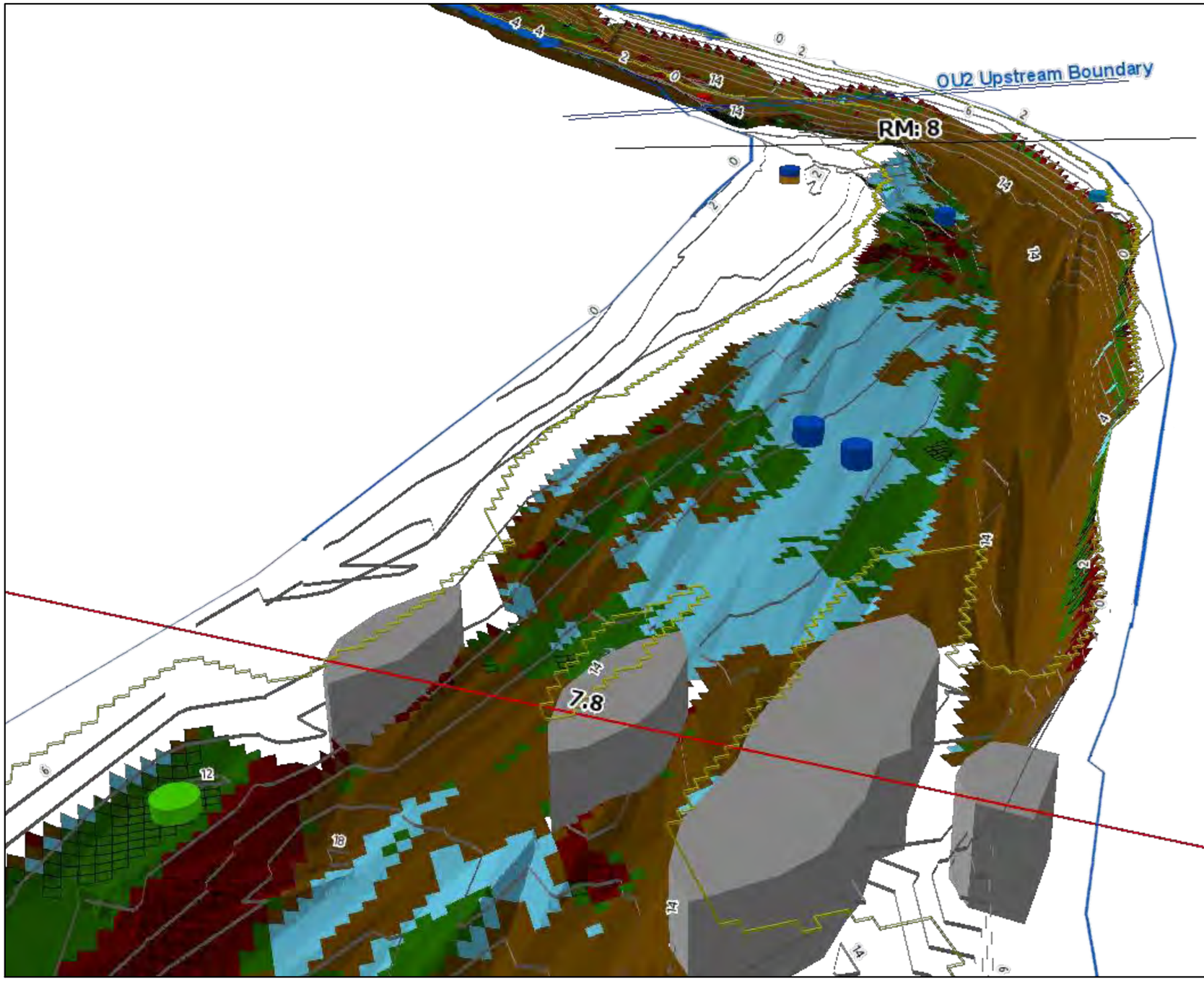
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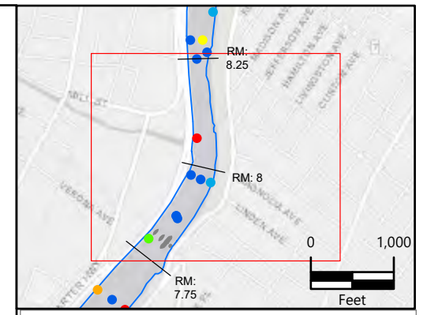
Figure 1-5c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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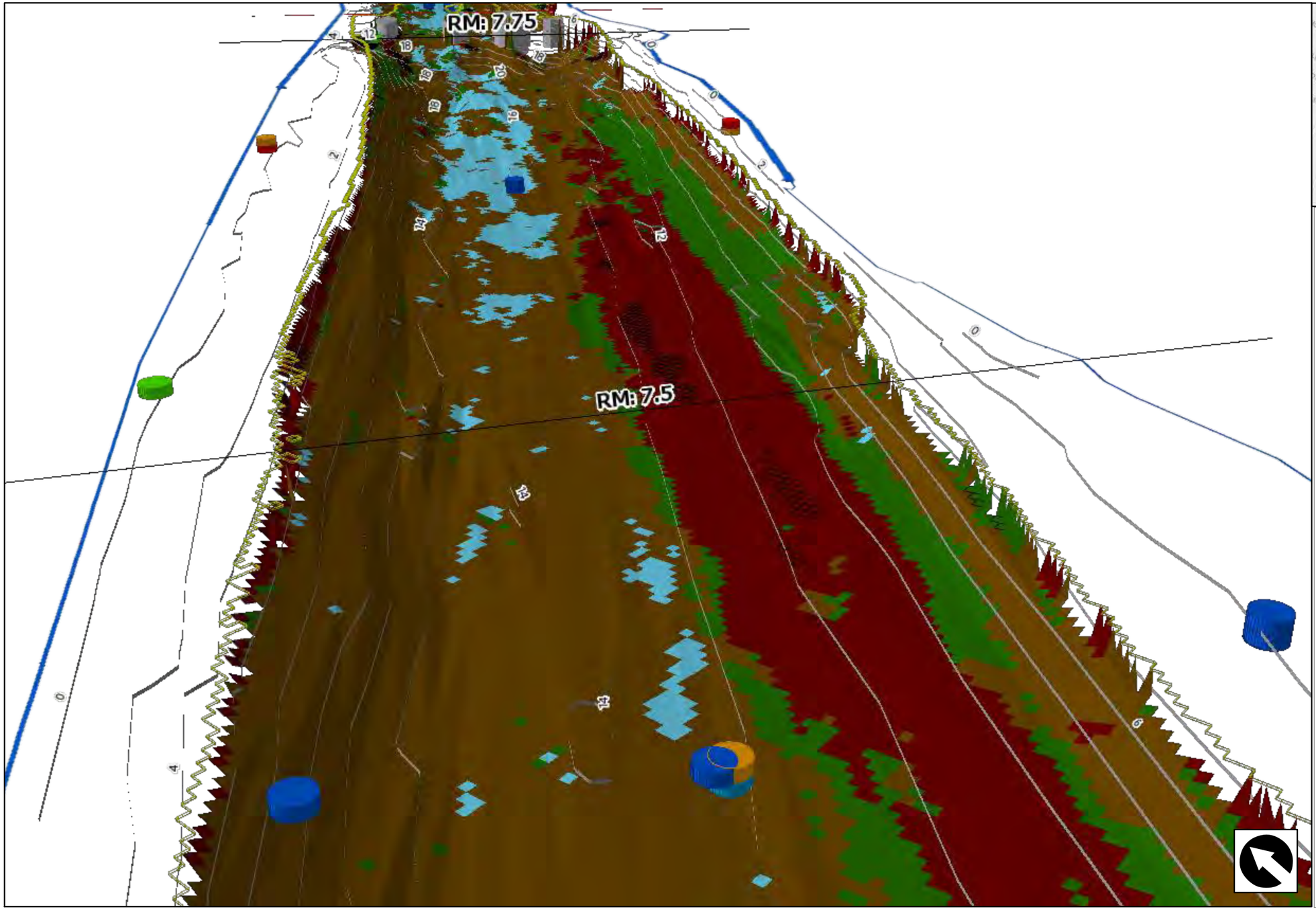
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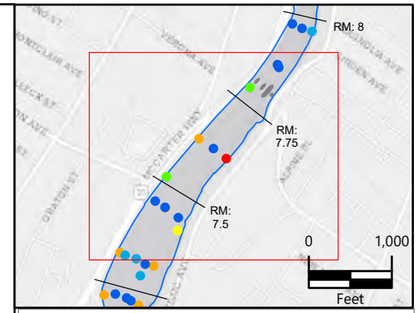
Figure 1-5d

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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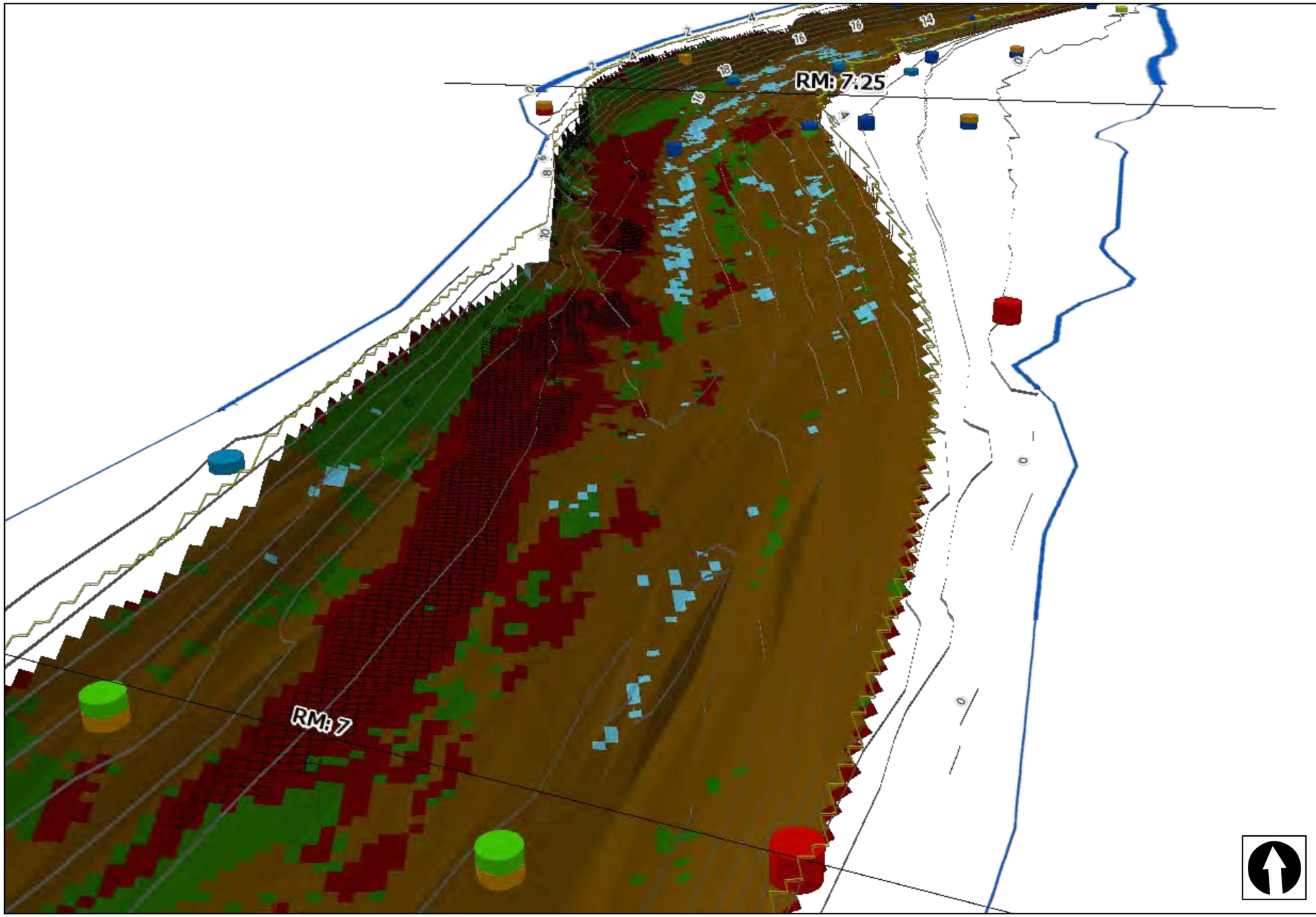
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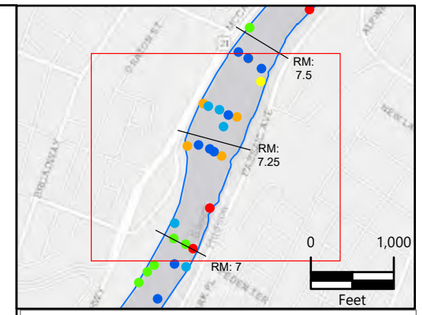
Figure 1-6a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
*A start year of 2007 and end year of 2012 was used for the multi-beam bathymetry. A start year of 2004 and end year of either 2013 or 2012 was used for single-beam bathymetry. Erosion > 1.5 feet is based on the difference between 2007 to 2012 or between the sequential bathymetry surveys in that period. Bathymetry categories are described in Section 4.1. The multi-beam bathymetry data evaluated at the 5-foot by 5-foot resolution shown here is used to distinguish differences greater than 6 inches between surveys. See Appendix A for a discussion of bathymetric uncertainty. White areas have no bathymetric change category. Contour labels are feet below mean sea level (NGVD 29). Cores located in the TCRA Area were subjected to remediation in 2013-2014.

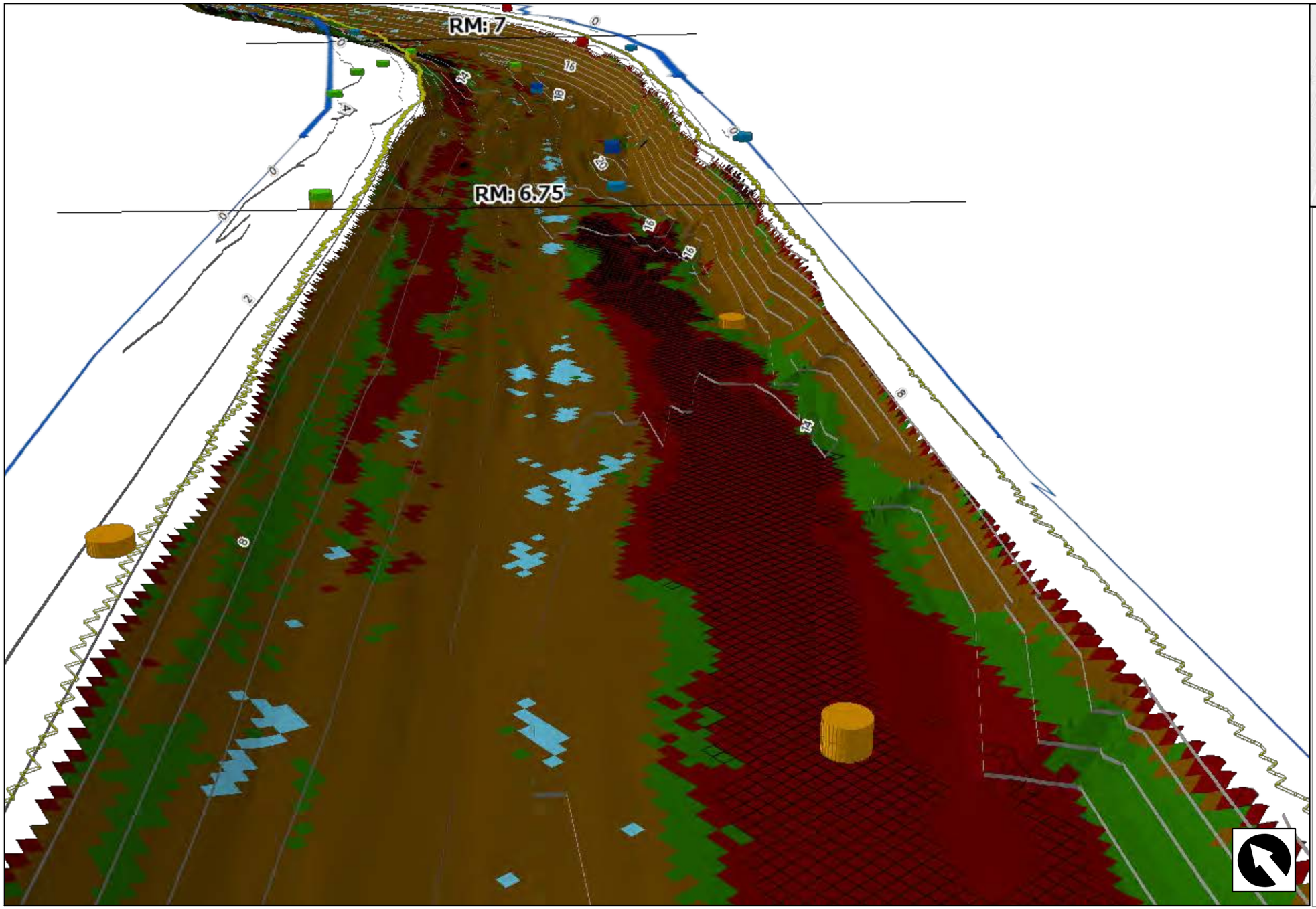
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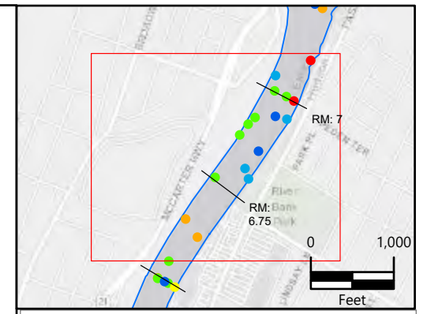
Figure 1-6b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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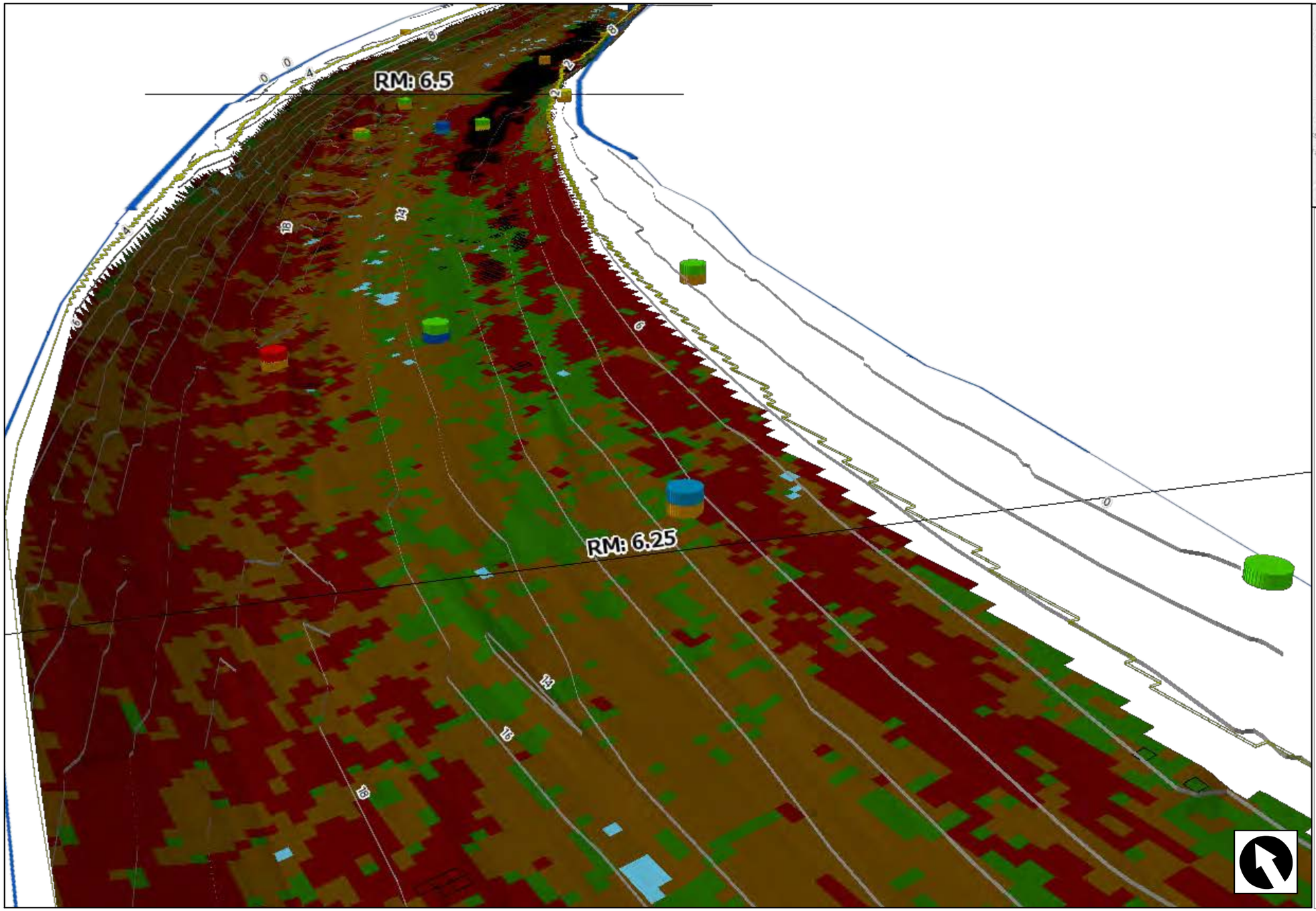
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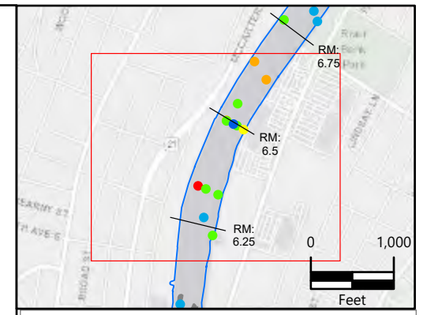
Figure 1-6c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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Bathymetry categories are described in Section 4.1. The multi-beam bathymetry data evaluated at the 5-foot by 5-foot resolution shown here is used to distinguish differences greater than 6 inches between surveys. See Appendix A for a discussion of bathymetric uncertainty. White areas have no bathymetric change category. Contour labels are feet below mean sea level (NGVD 29). Cores located in the TCRA Area were subjected to remediation in 2013-2014.

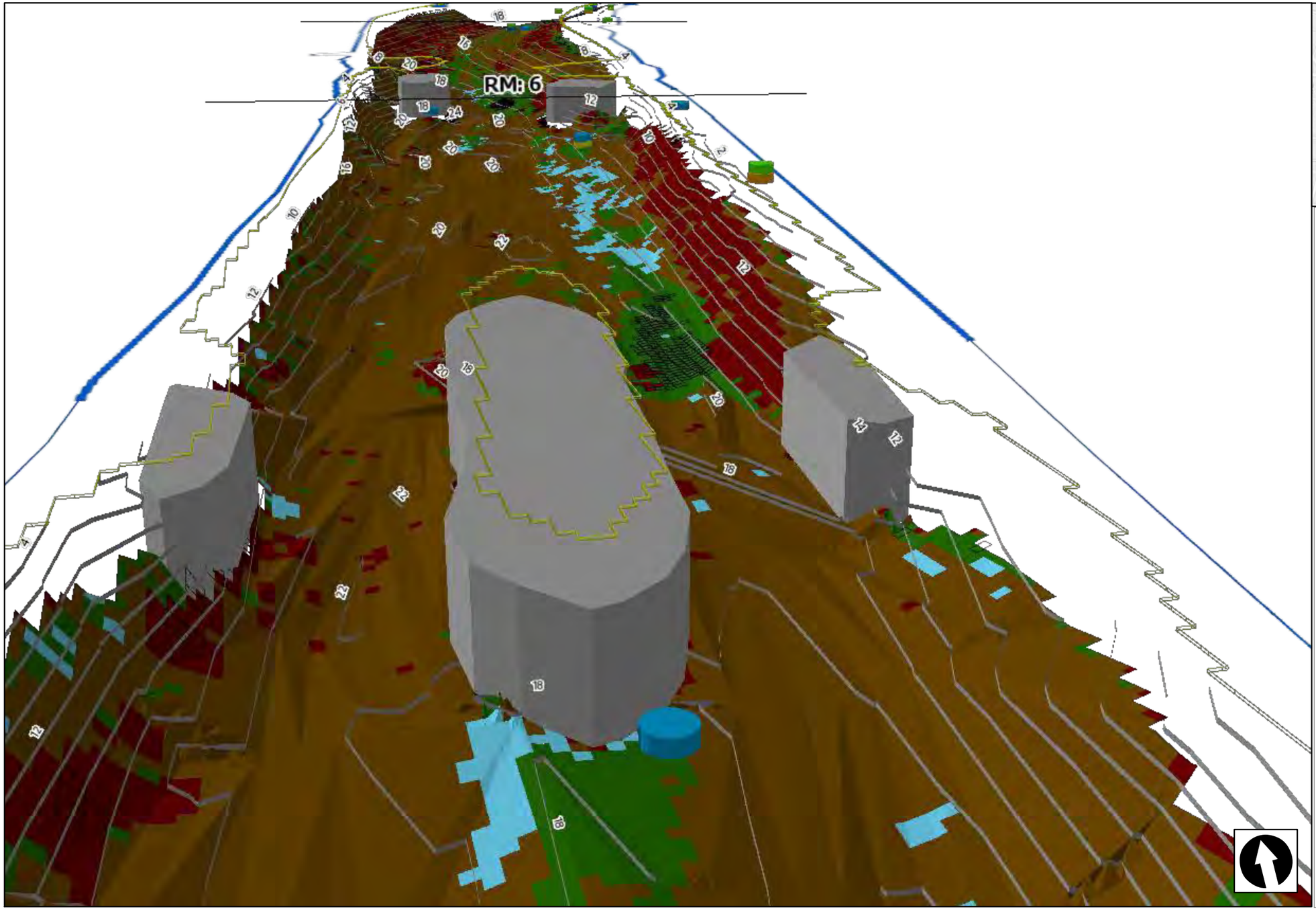
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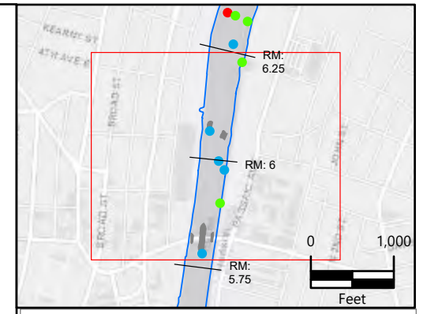
Figure 1-6d

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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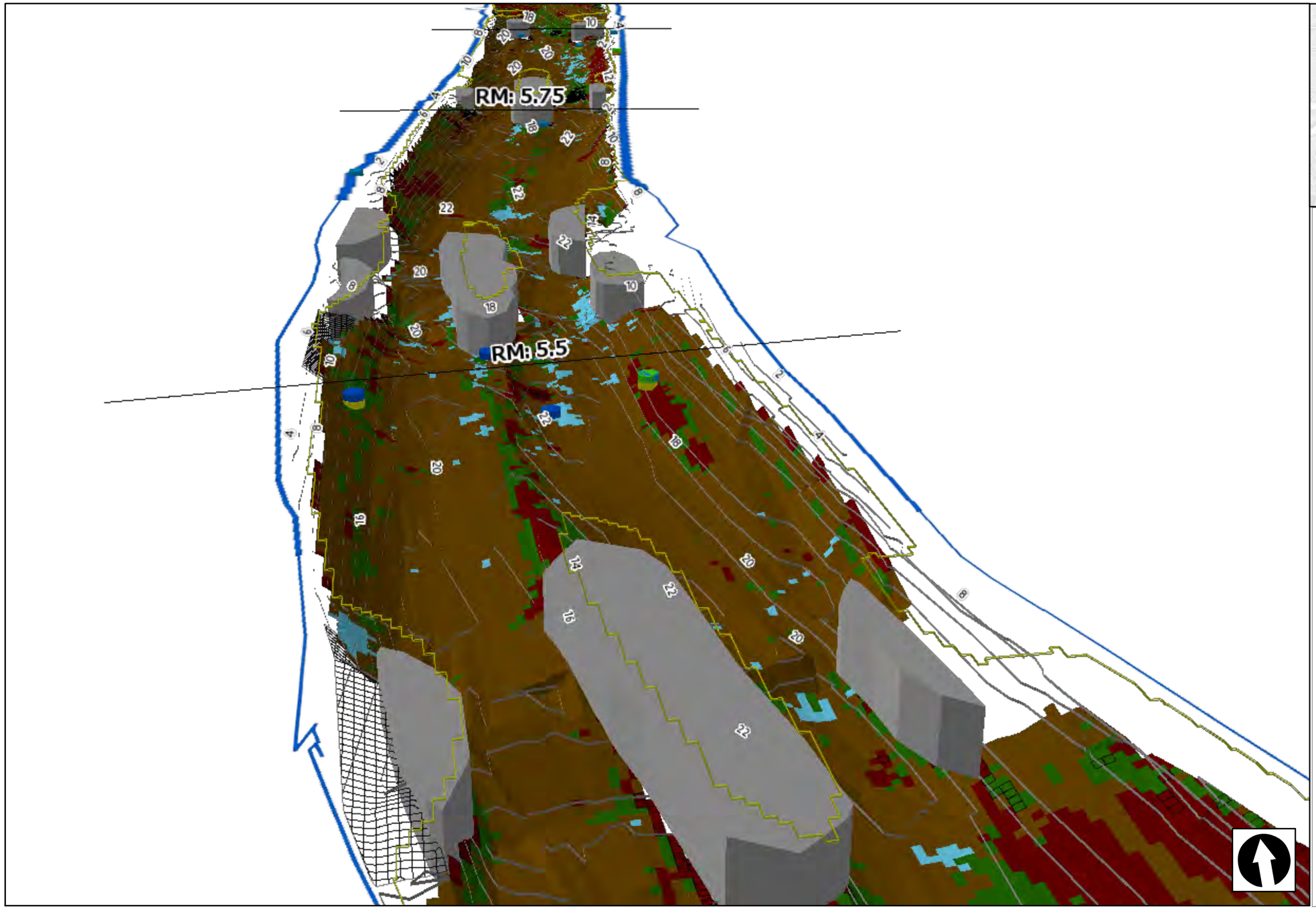
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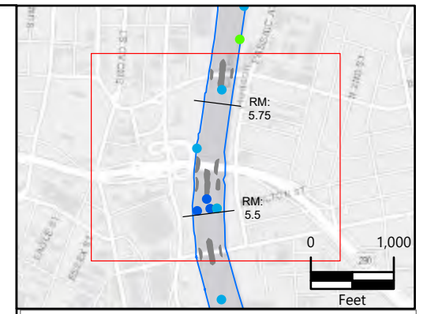
Figure 1-6e

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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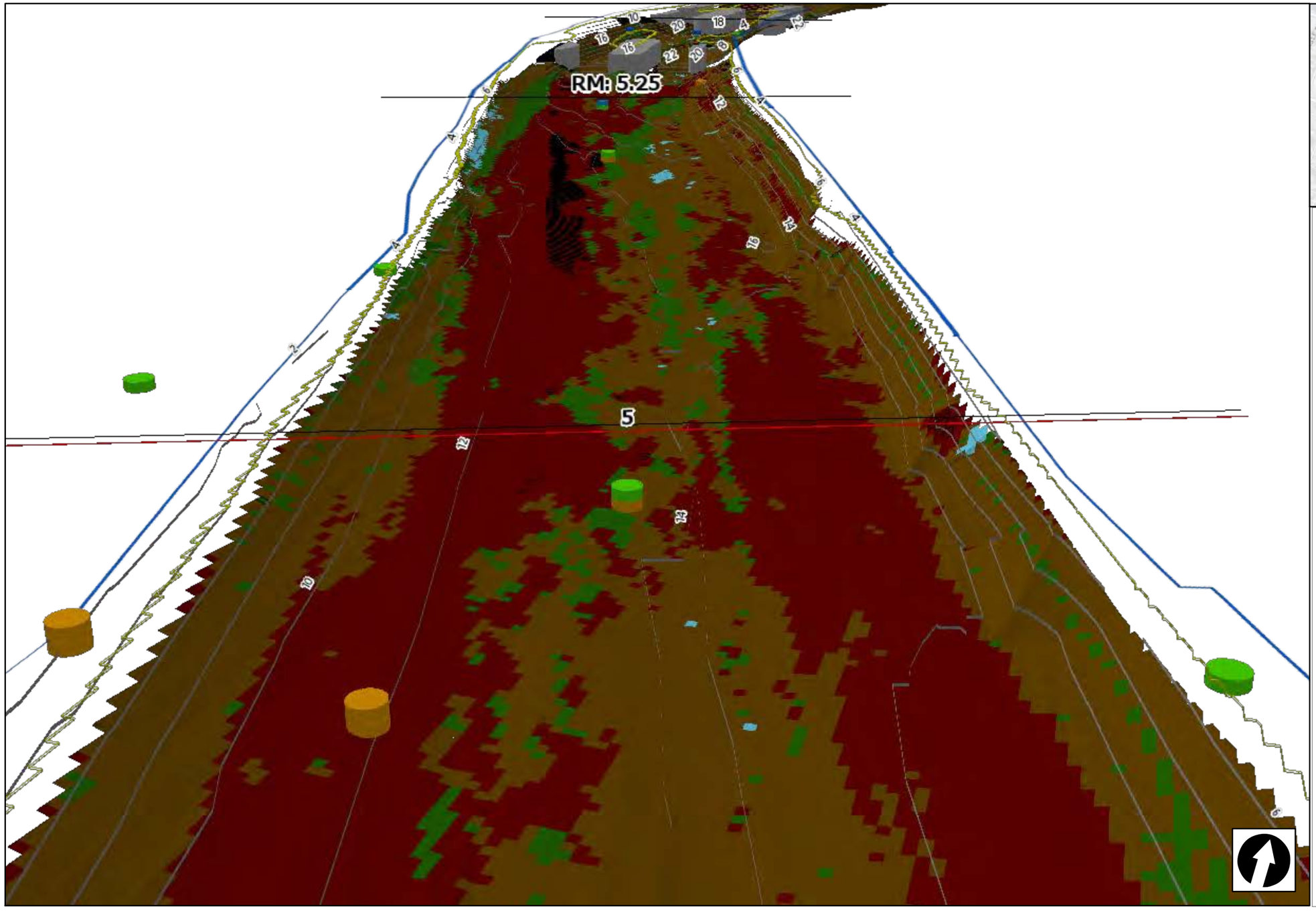
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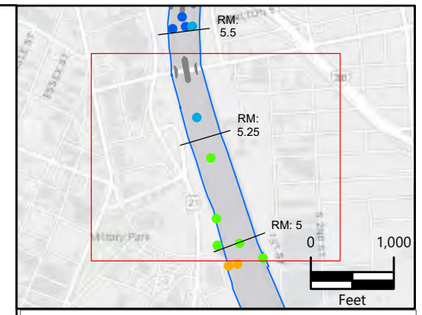
Figure 1-6f

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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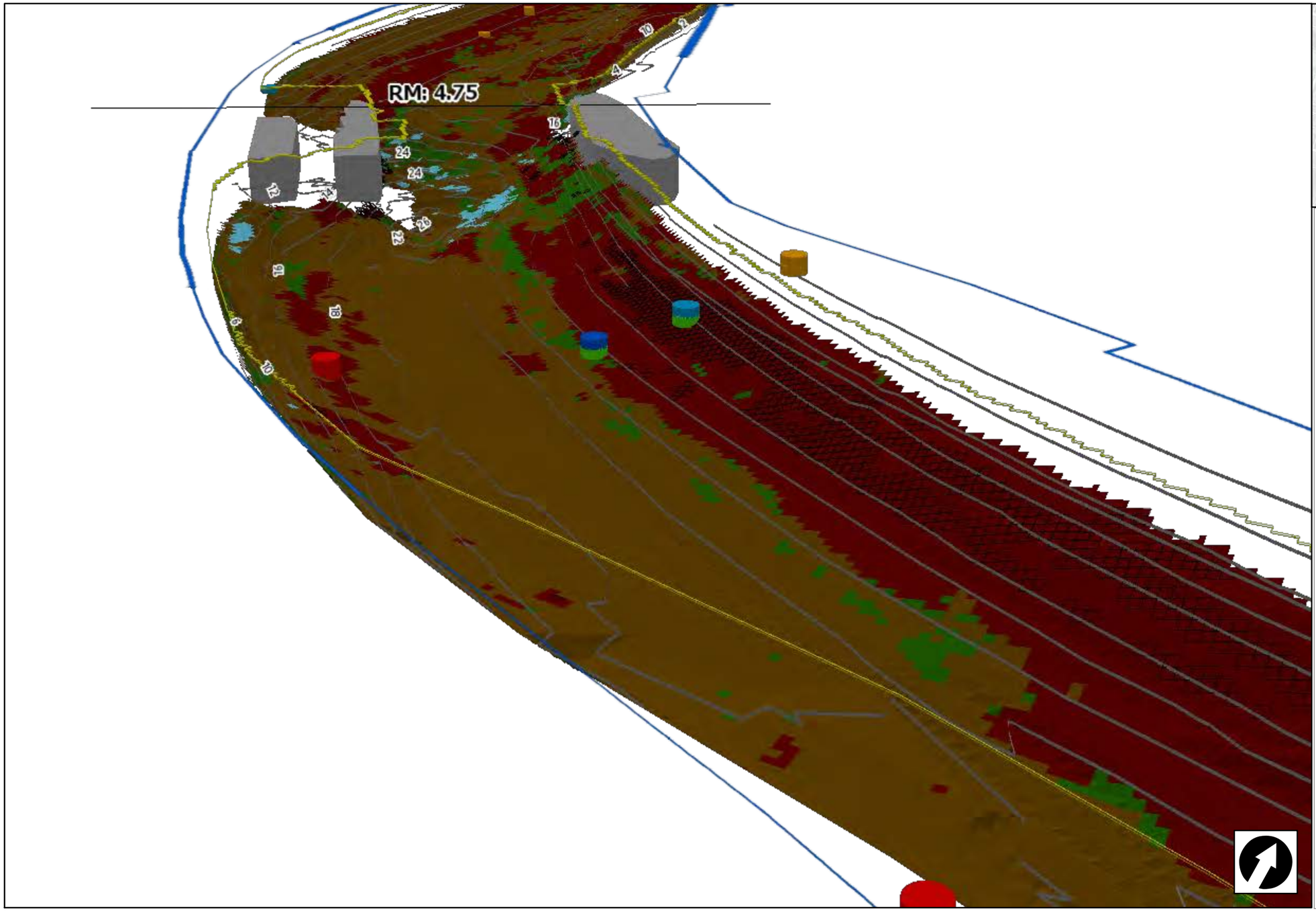
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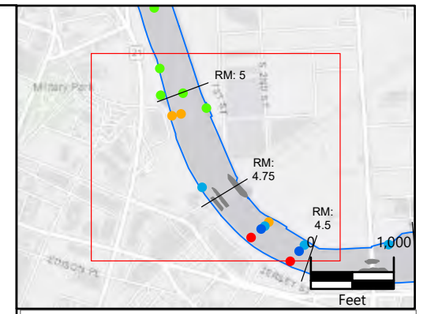
Figure 1-6g

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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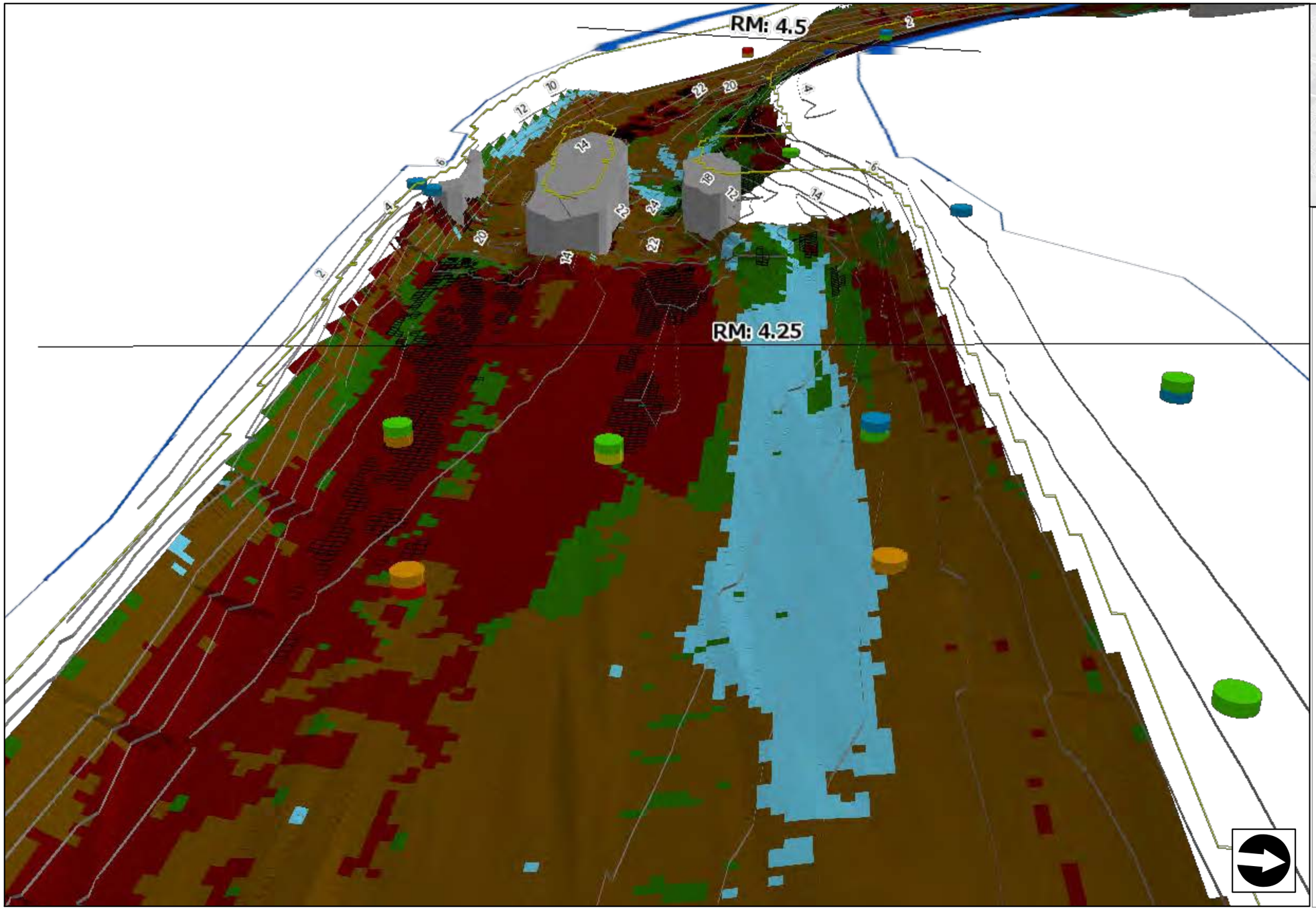
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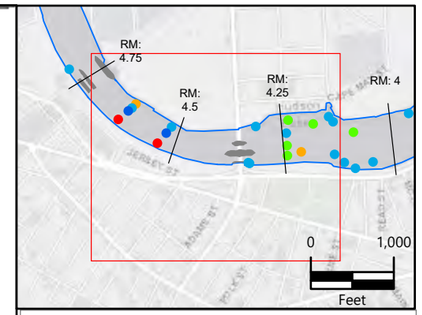
Figure 1-7a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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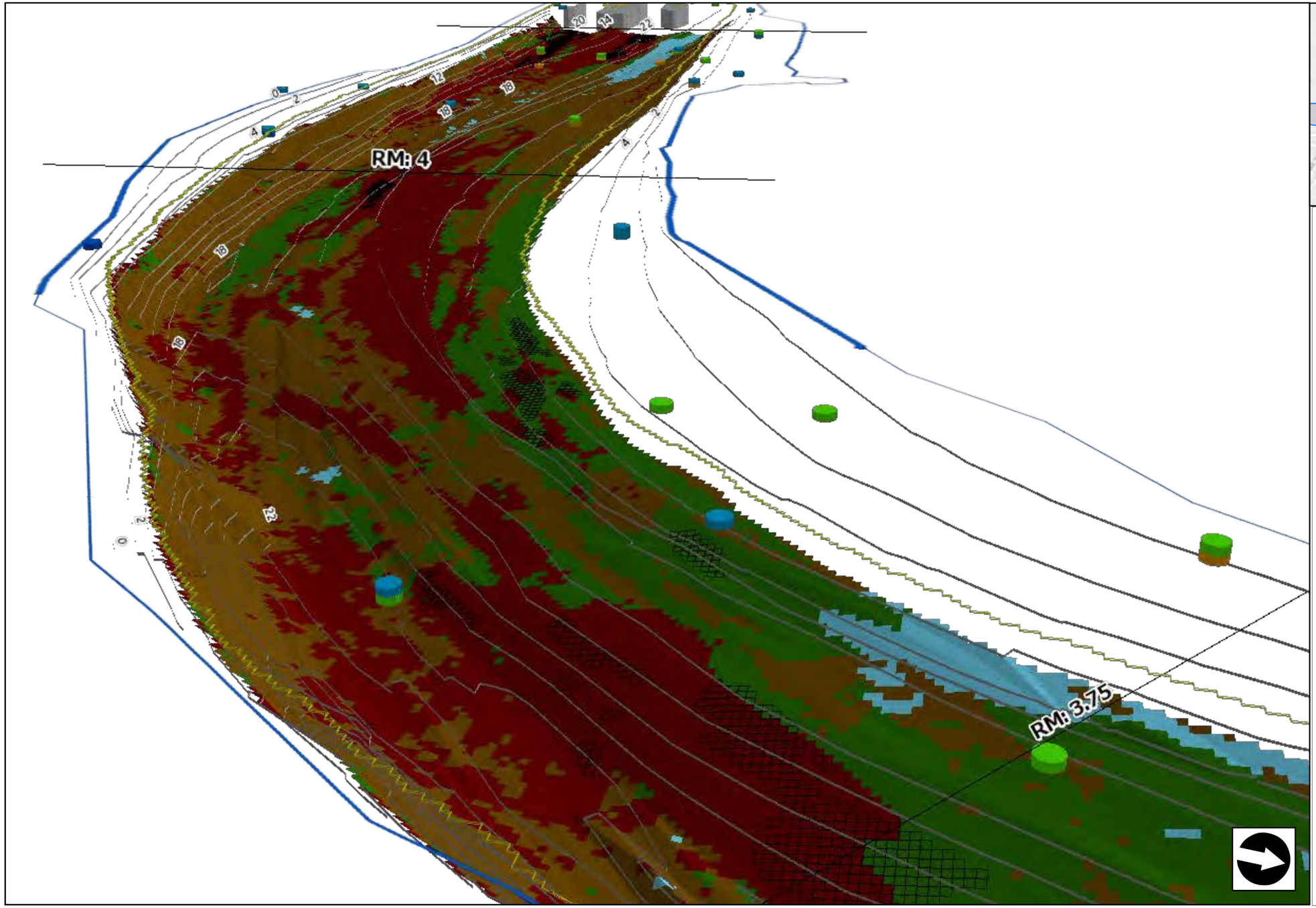
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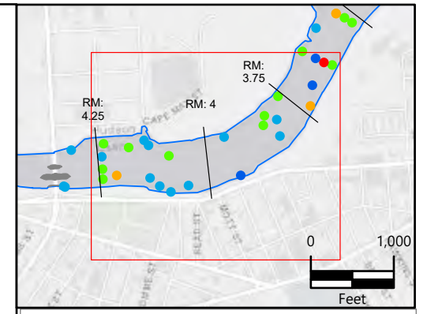
Figure 1-7b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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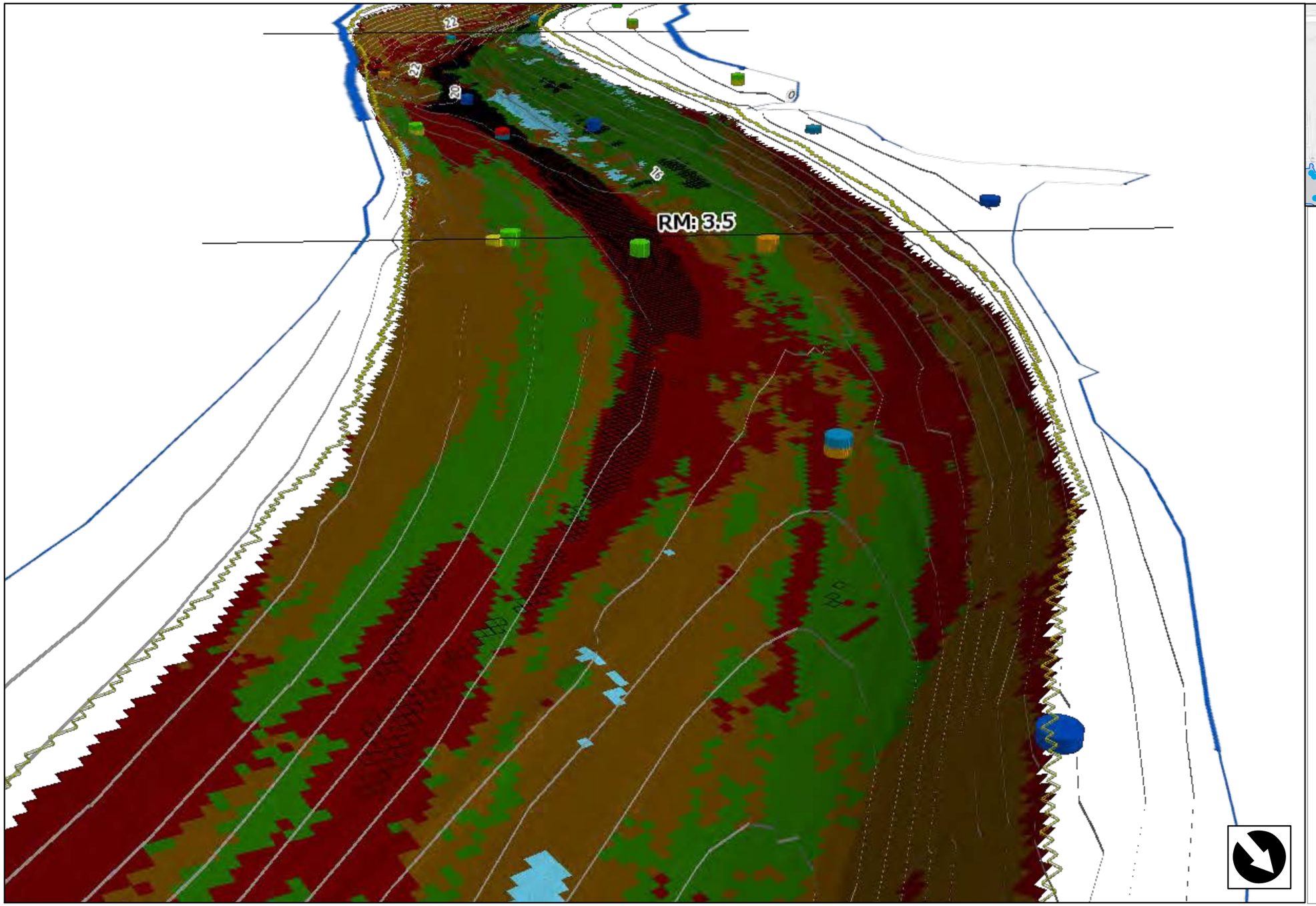
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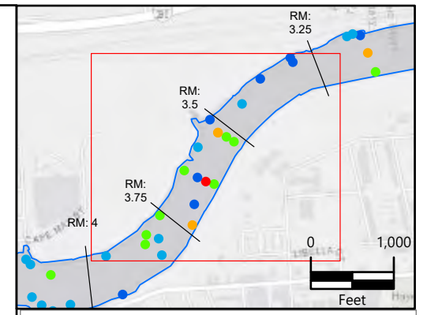
Figure 1-7c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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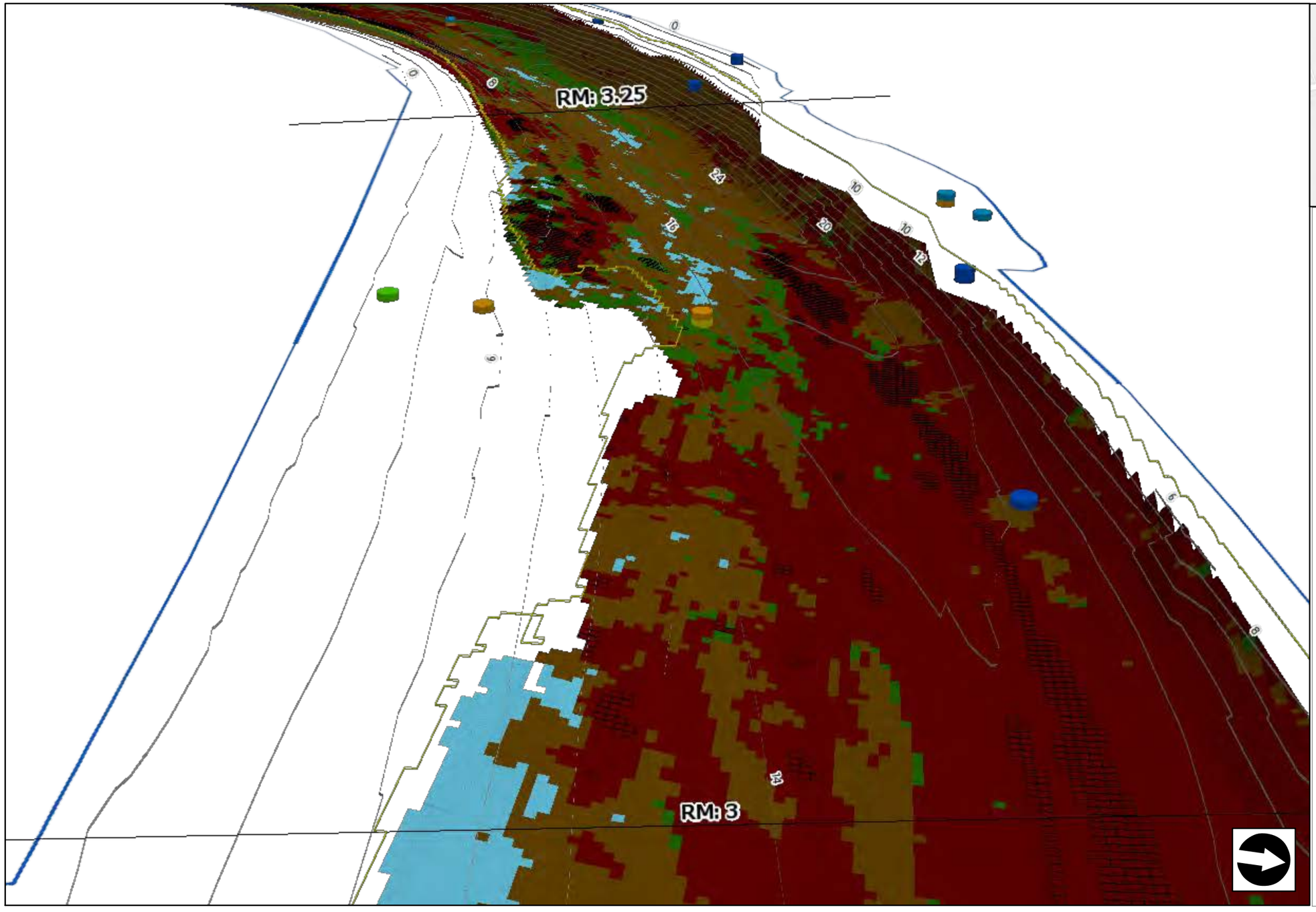
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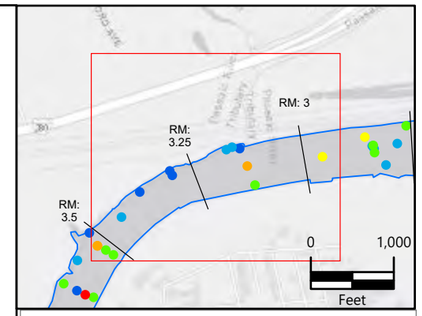
Figure 1-7d

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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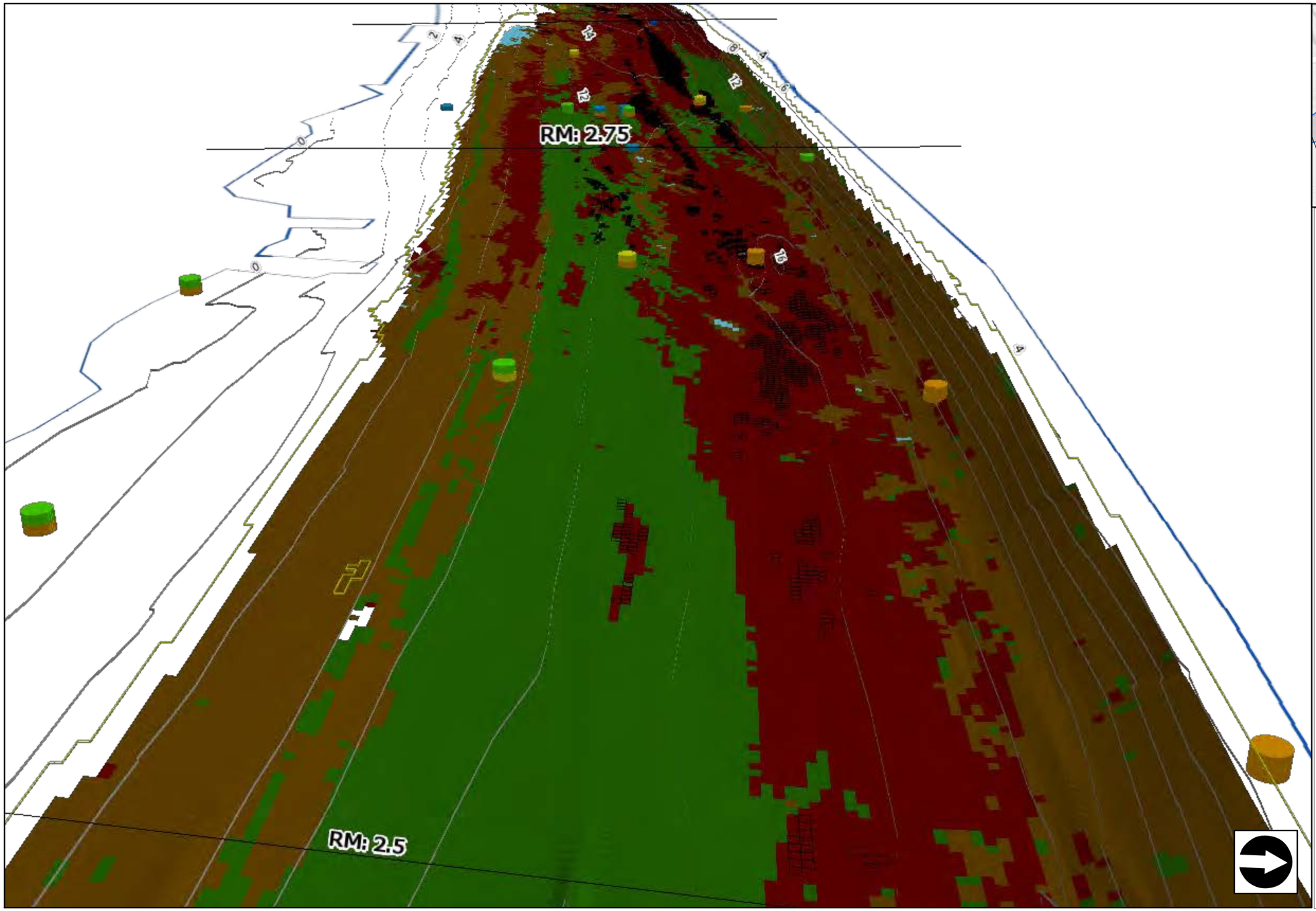
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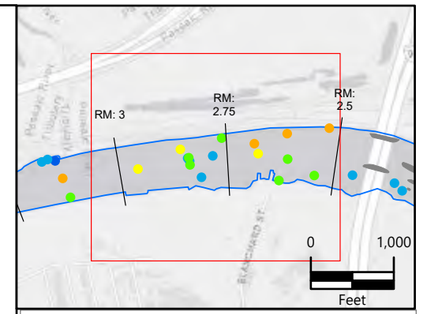
Figure 1-7e

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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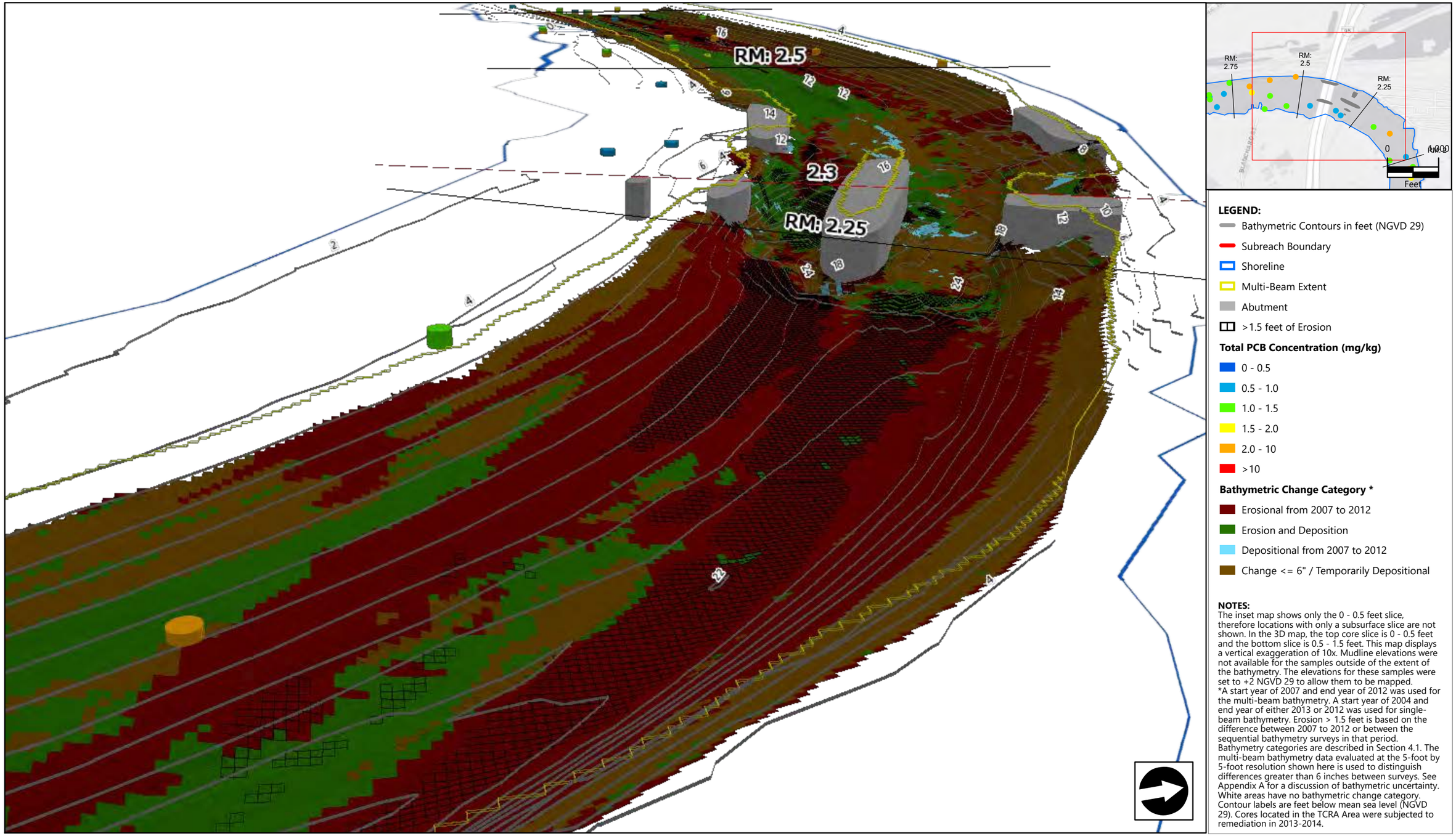
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Figure 1-7f

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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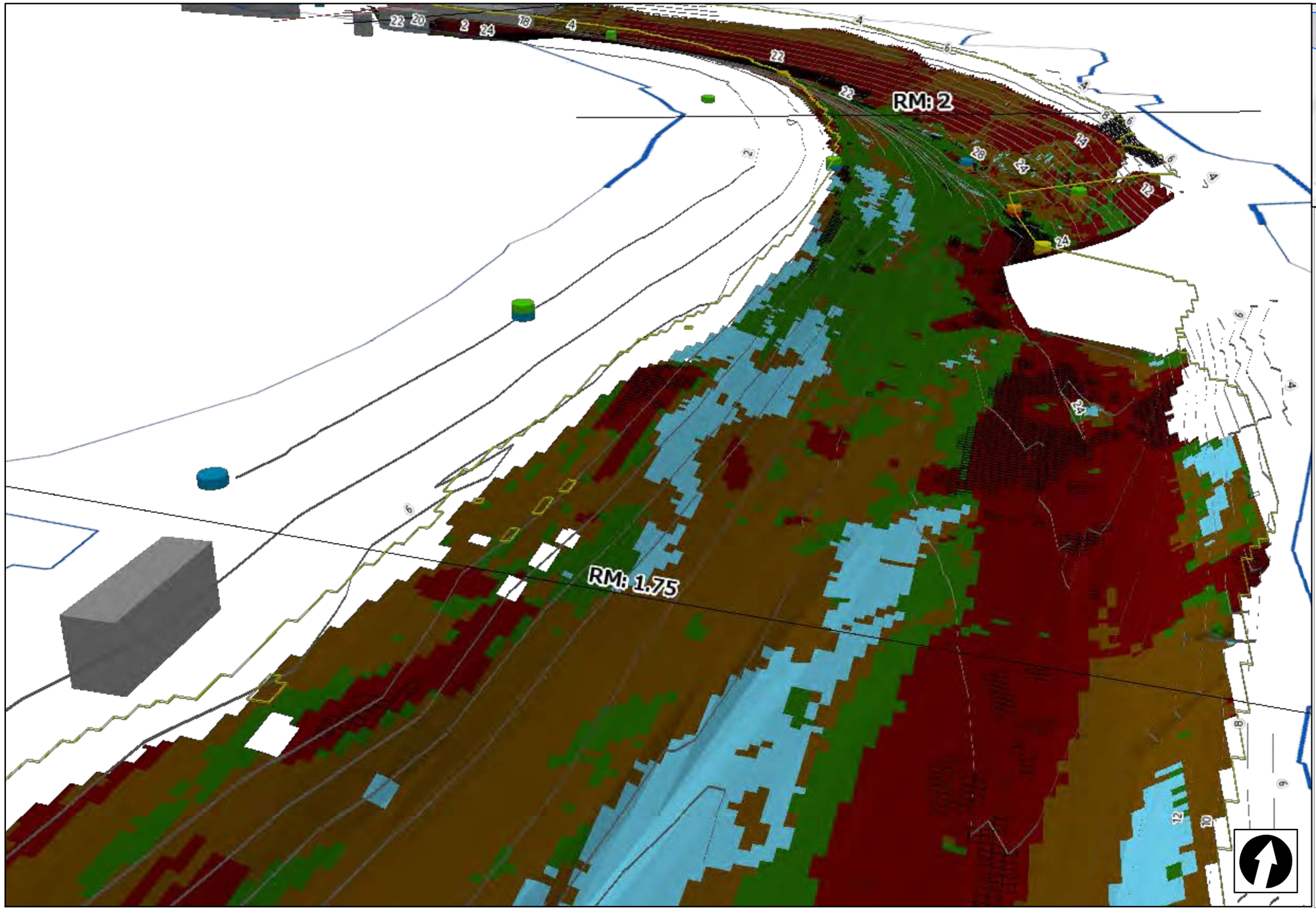
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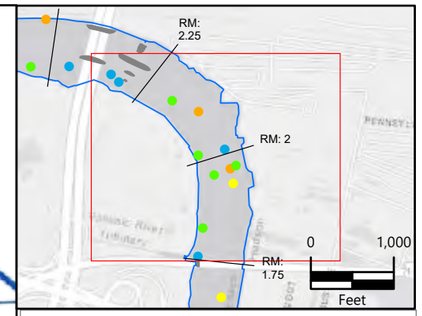
Figure 1-7g

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
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NOTES:
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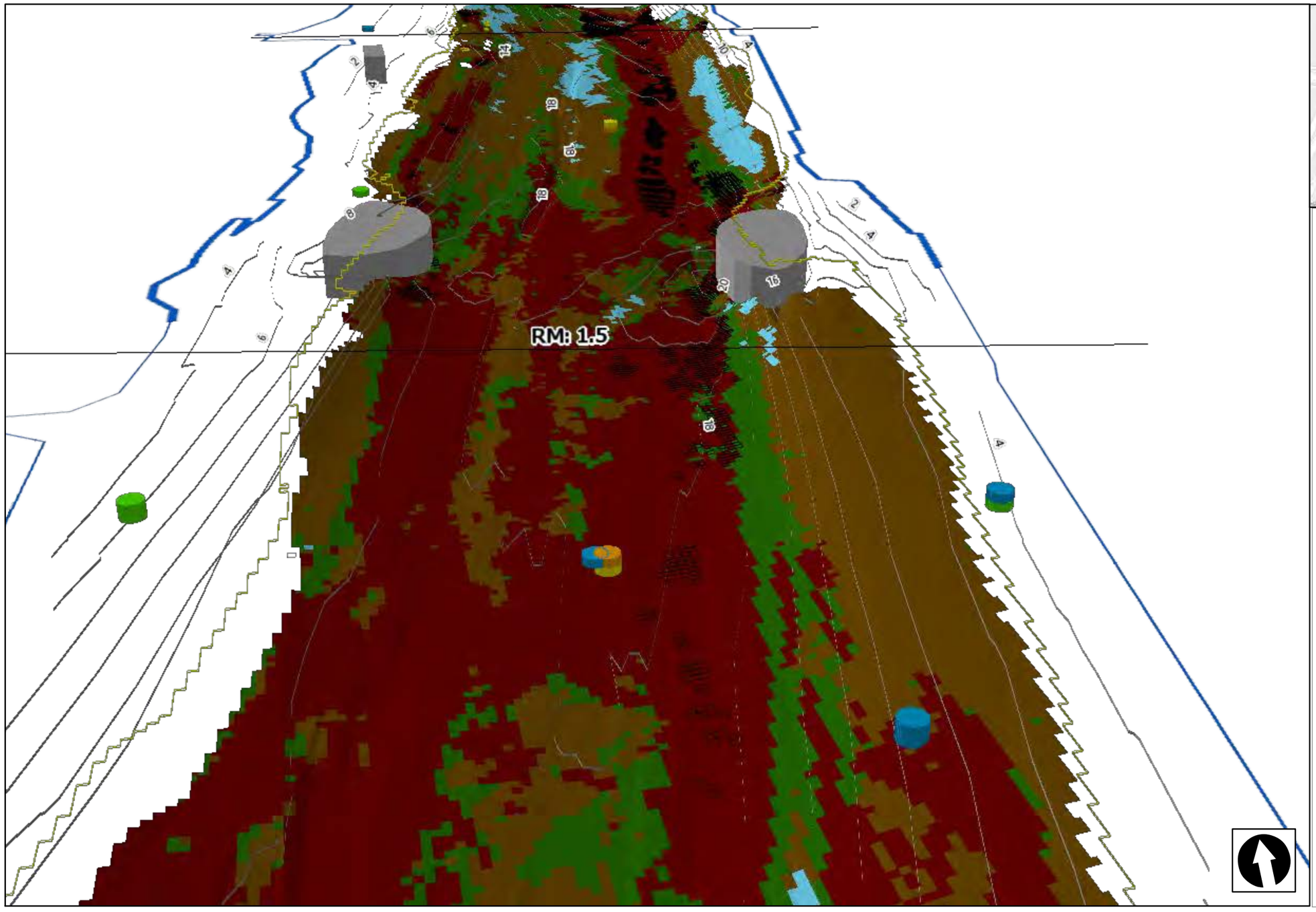
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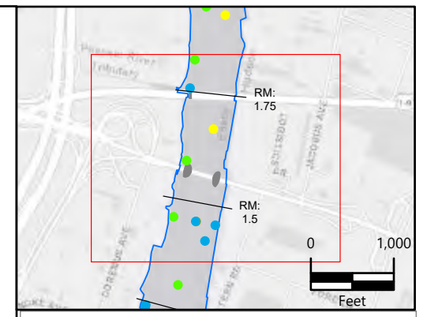
Figure 1-8a

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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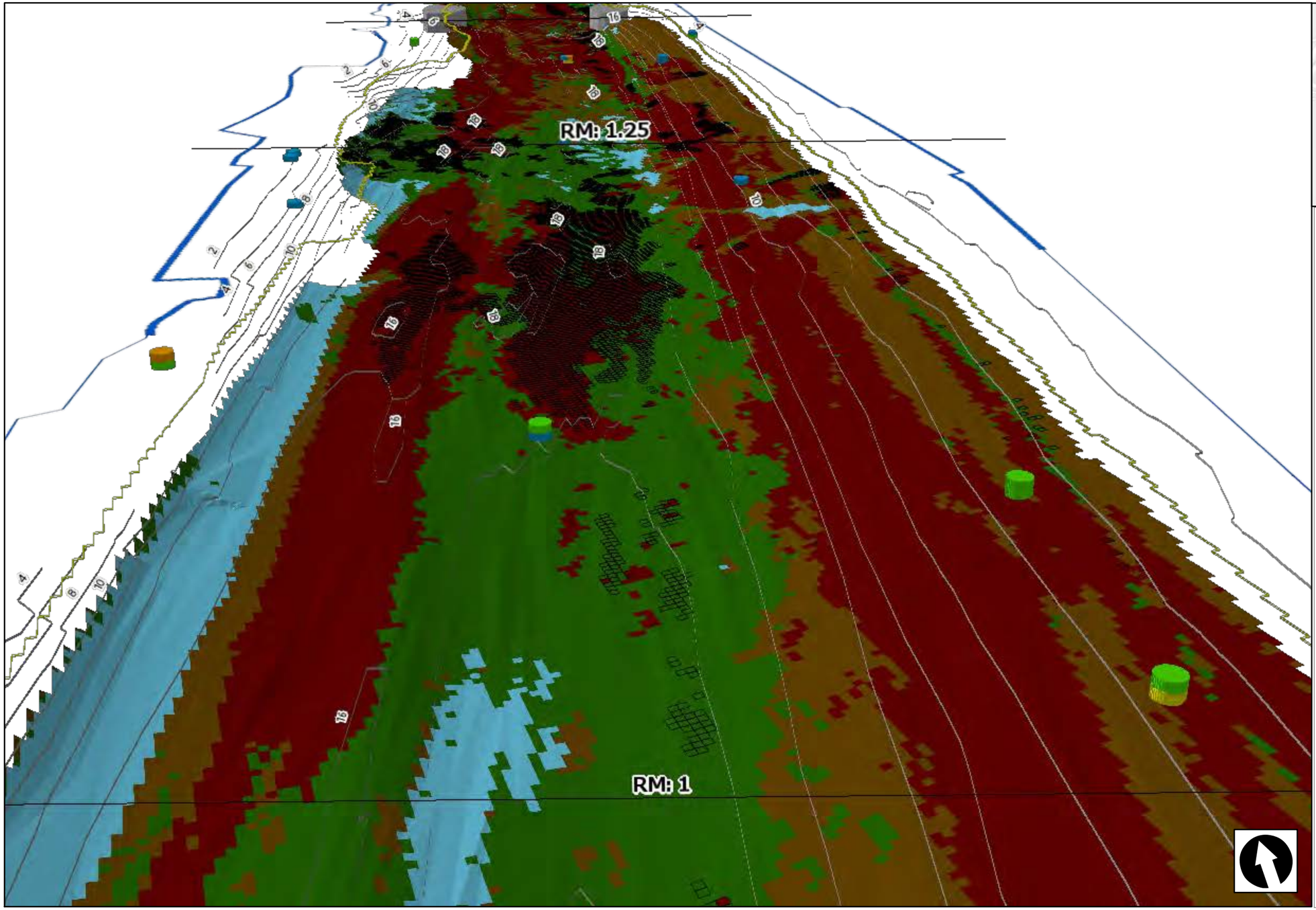
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Figure 1-8b

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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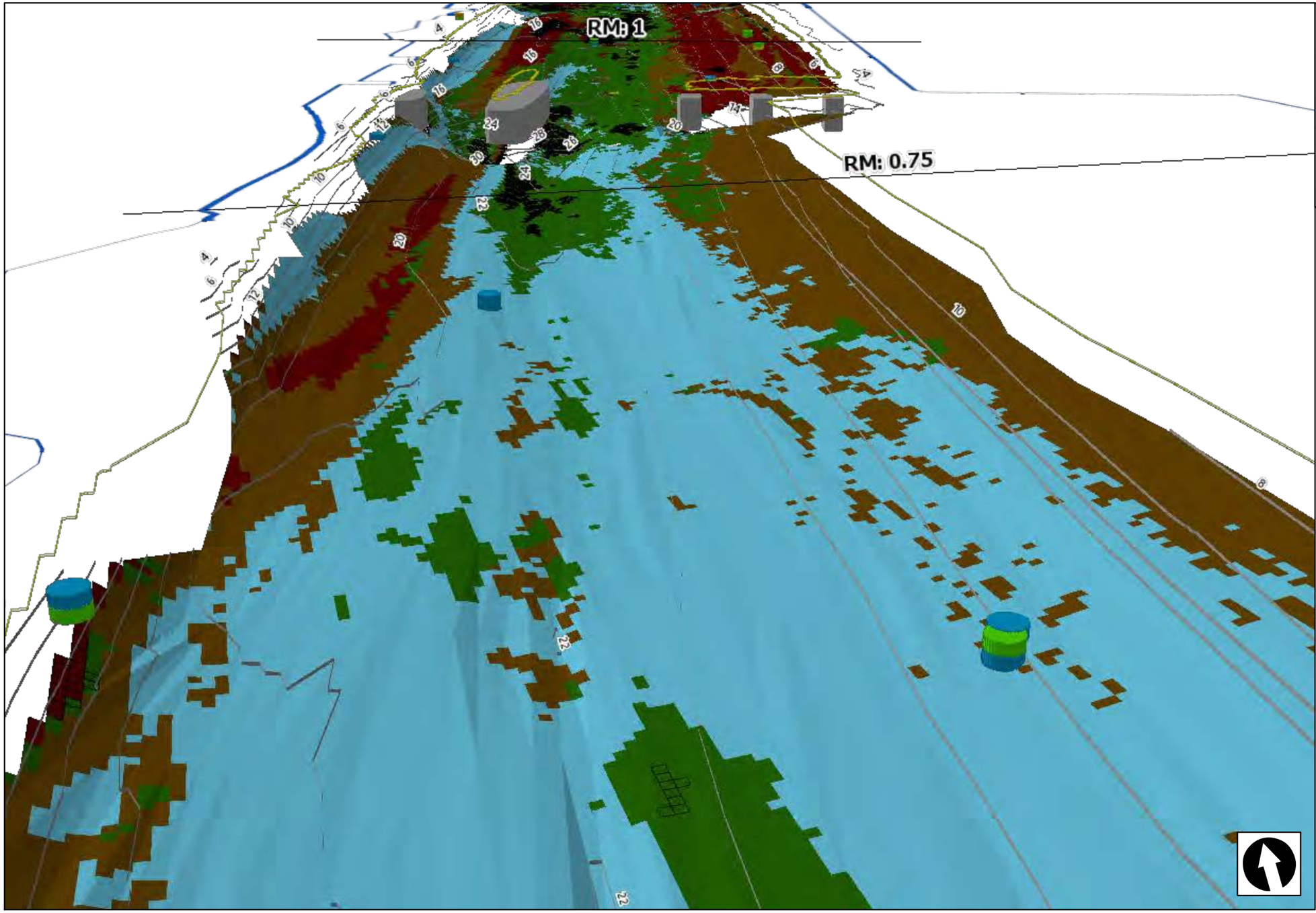
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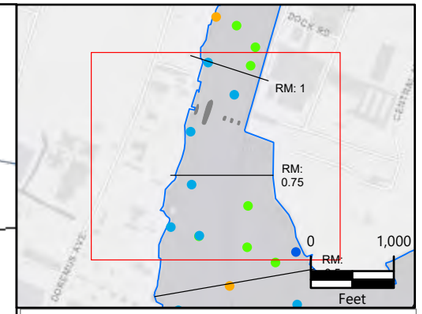
Figure 1-8c

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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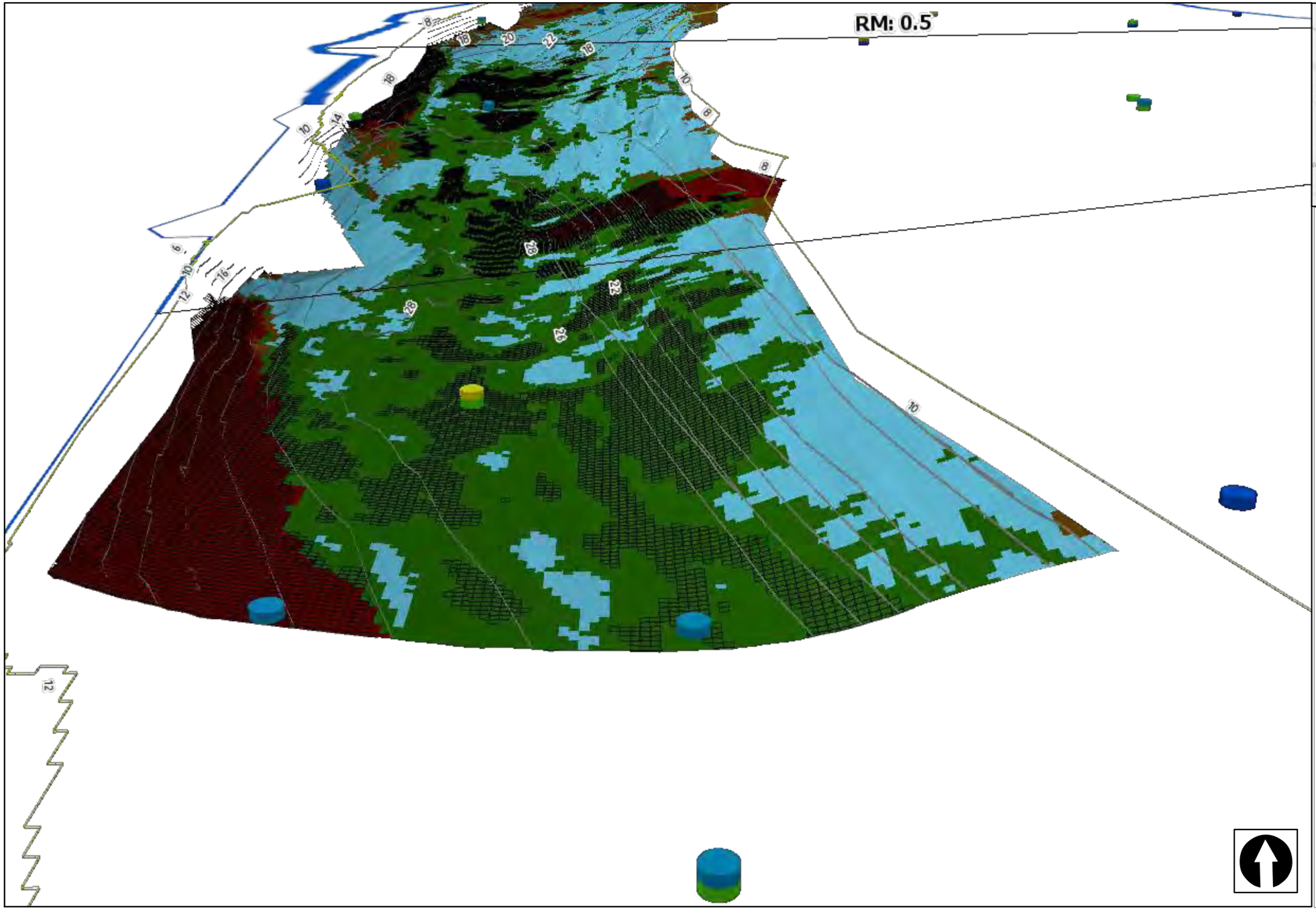
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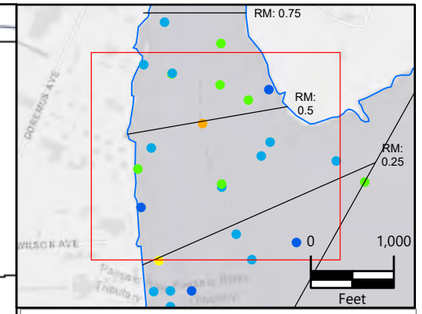
Figure 1-8d

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total PCB Concentration (mg/kg)

- 0 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- 2.0 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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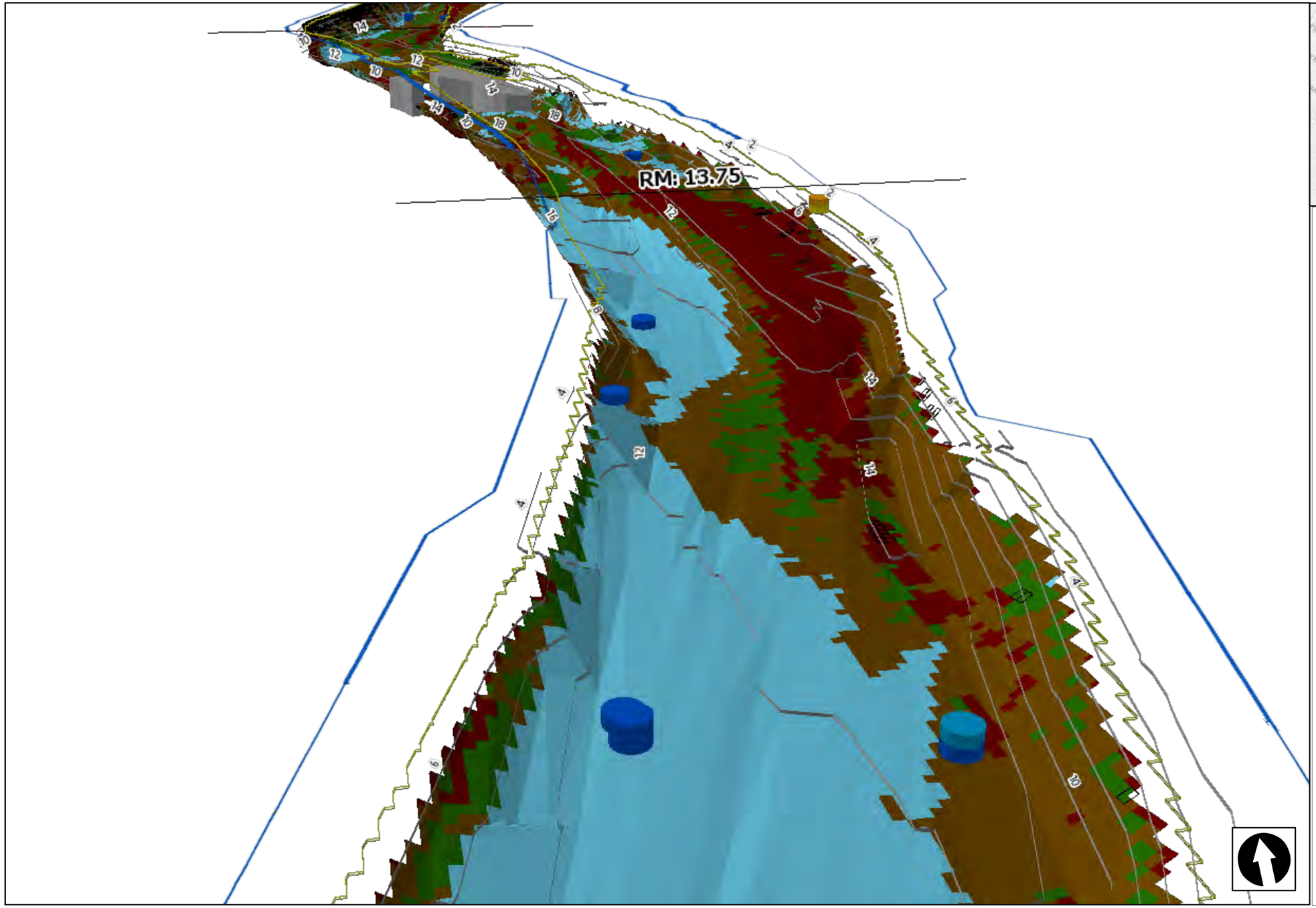
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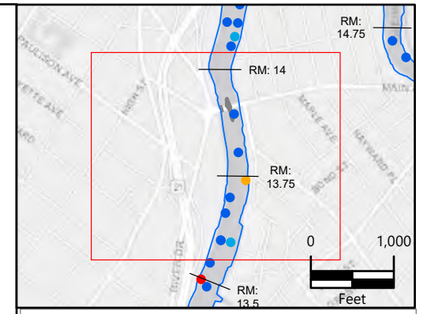
Figure 1-8e

Total PCB Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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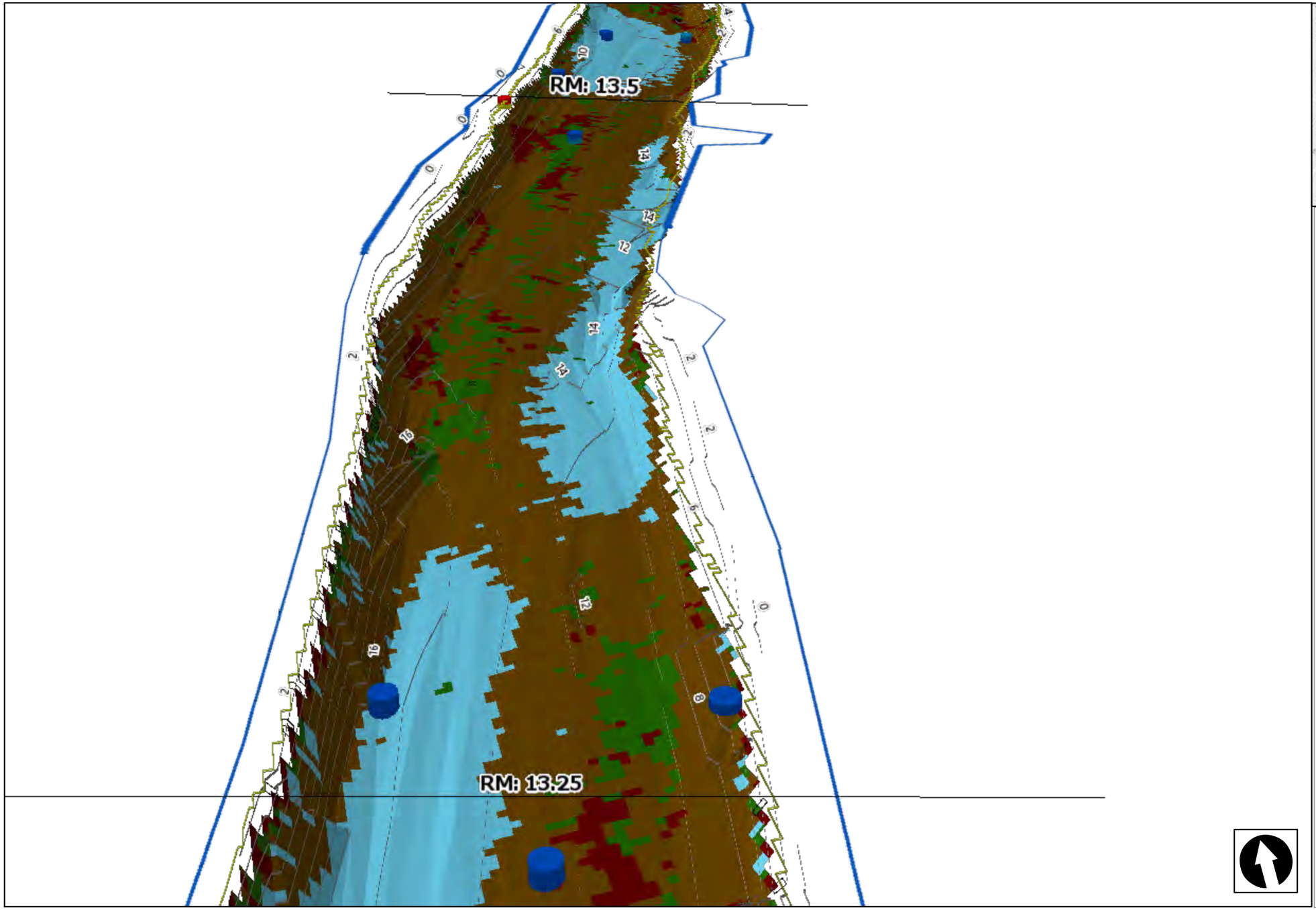
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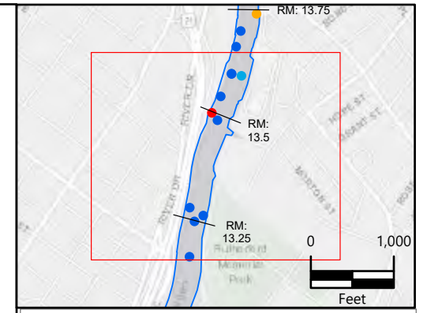
Figure 2-1a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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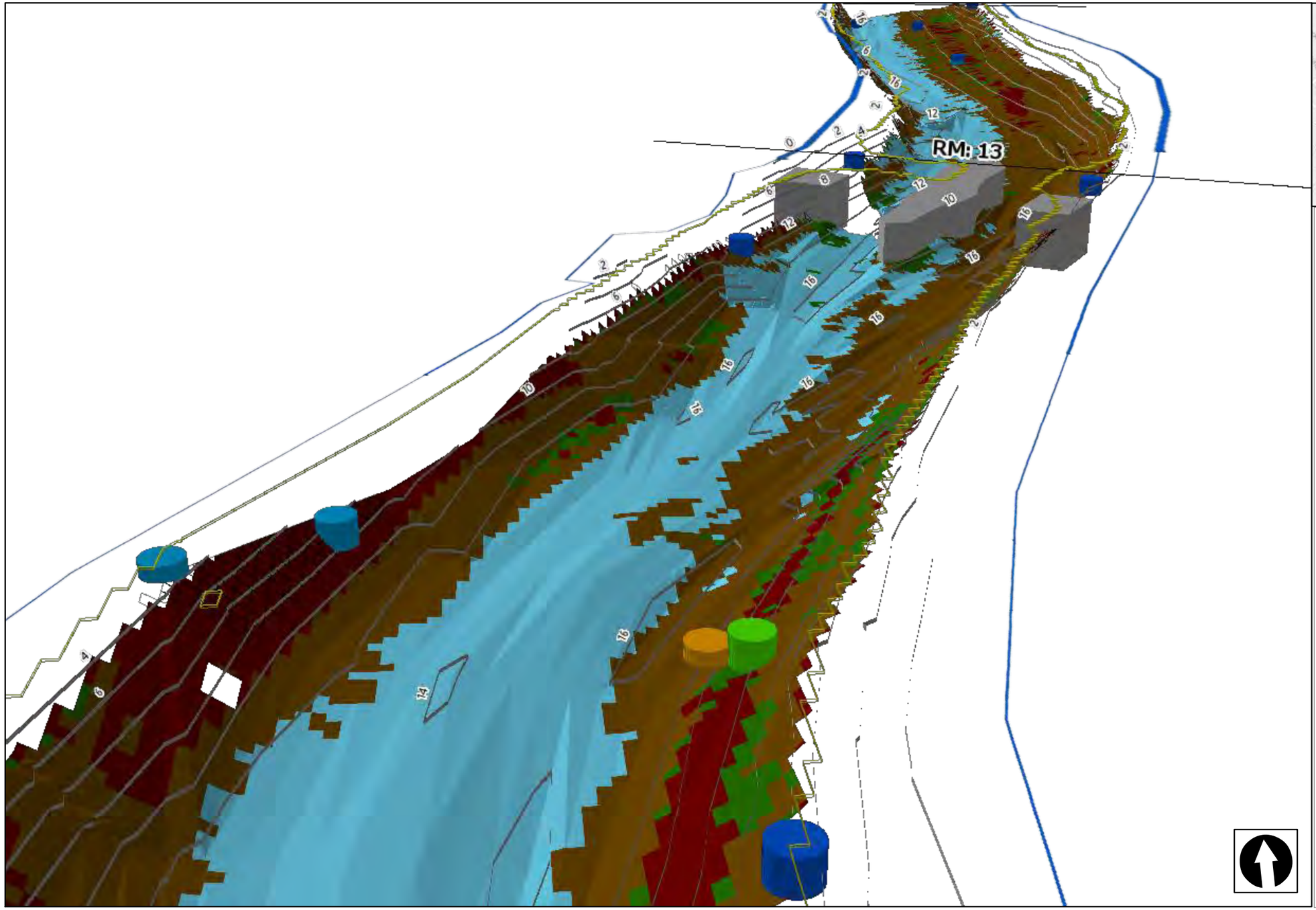
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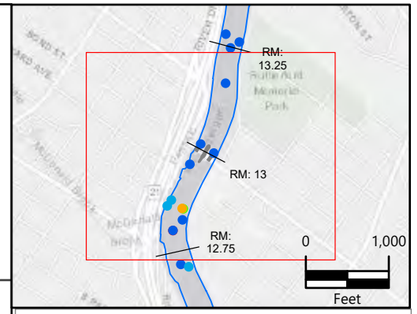
Figure 2-1b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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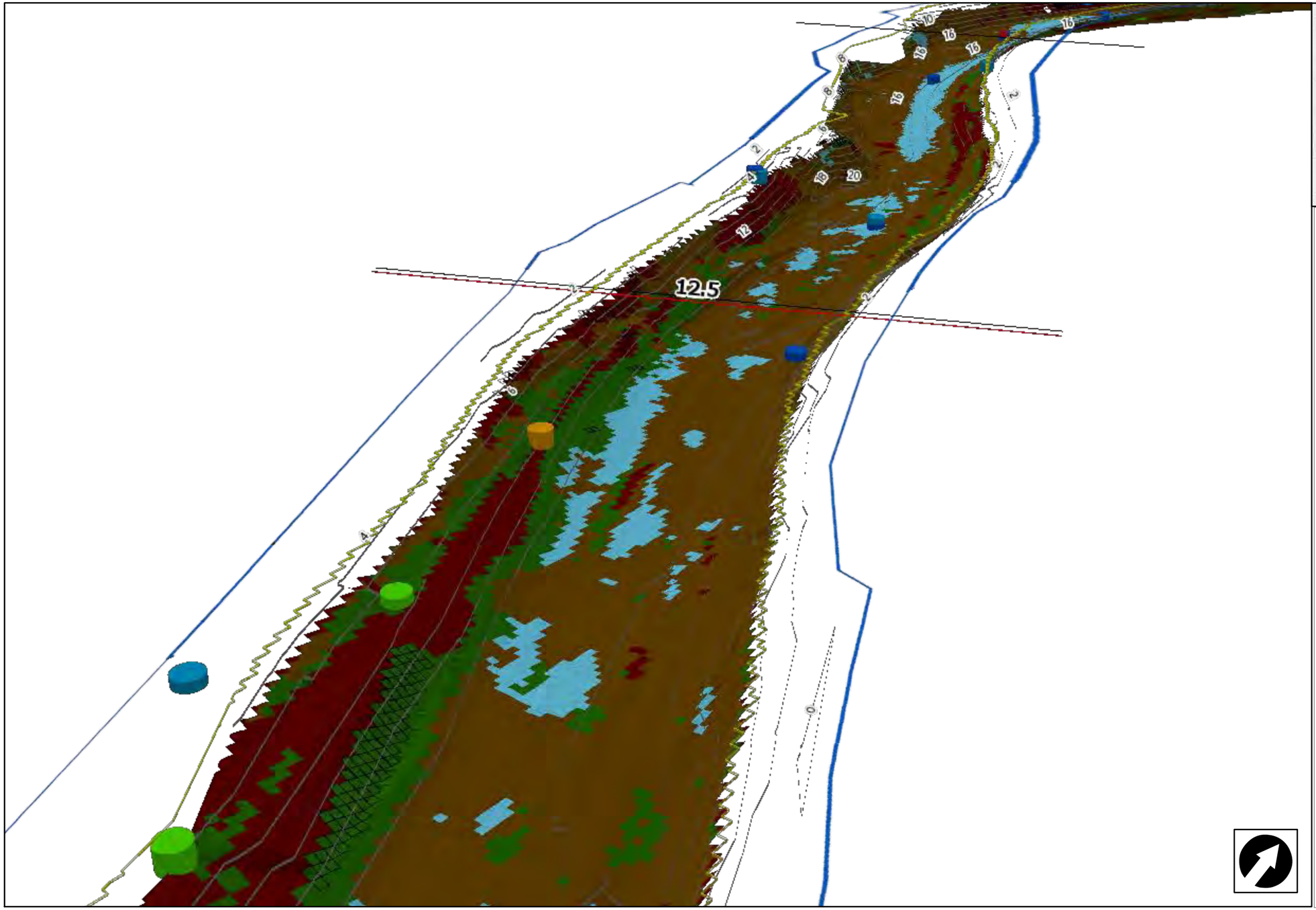
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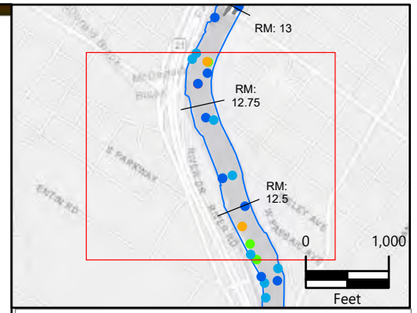
Figure 2-1c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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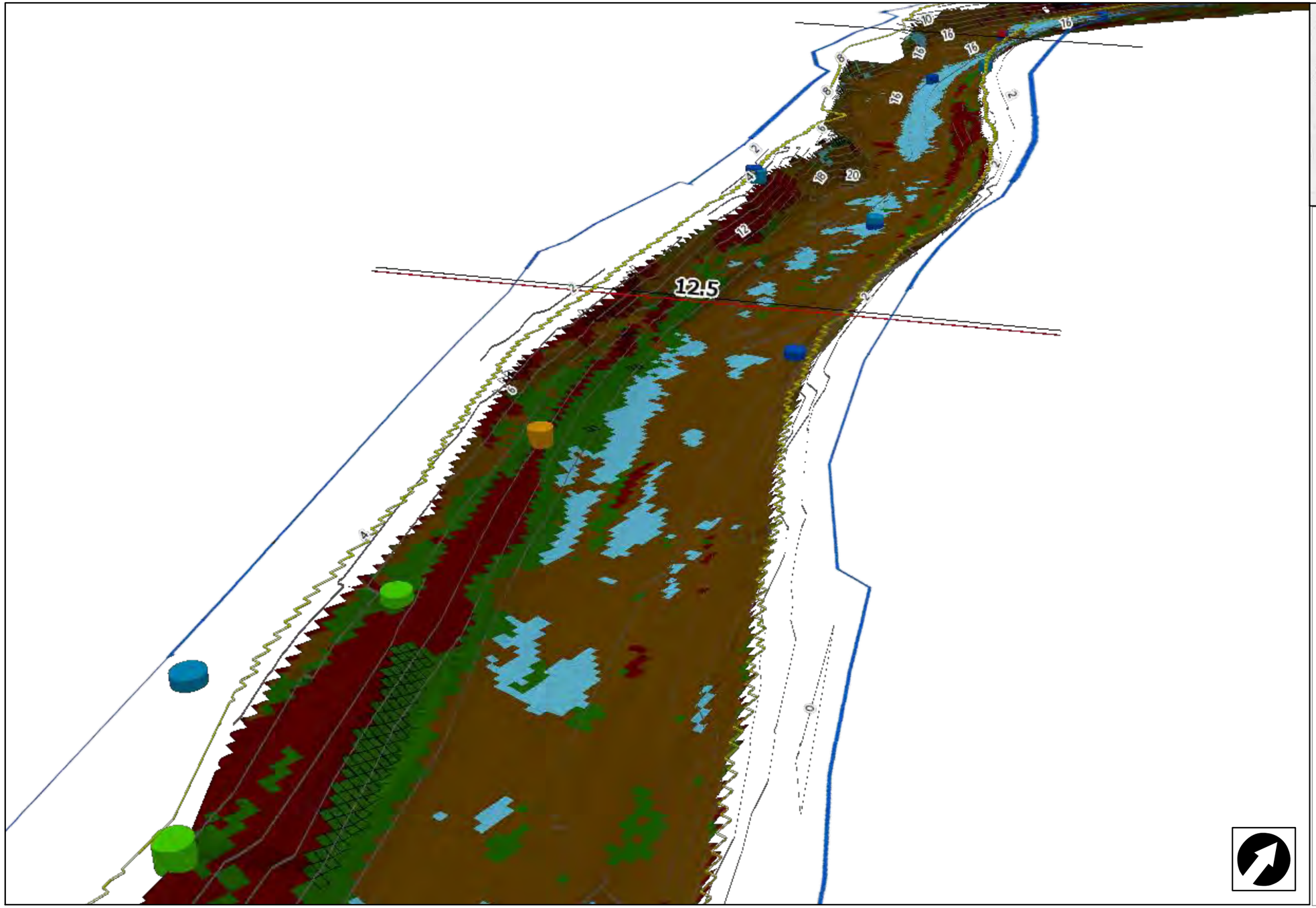
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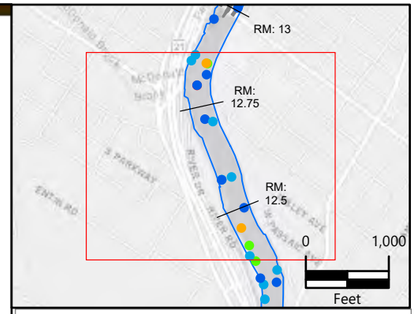
Figure 2-1d

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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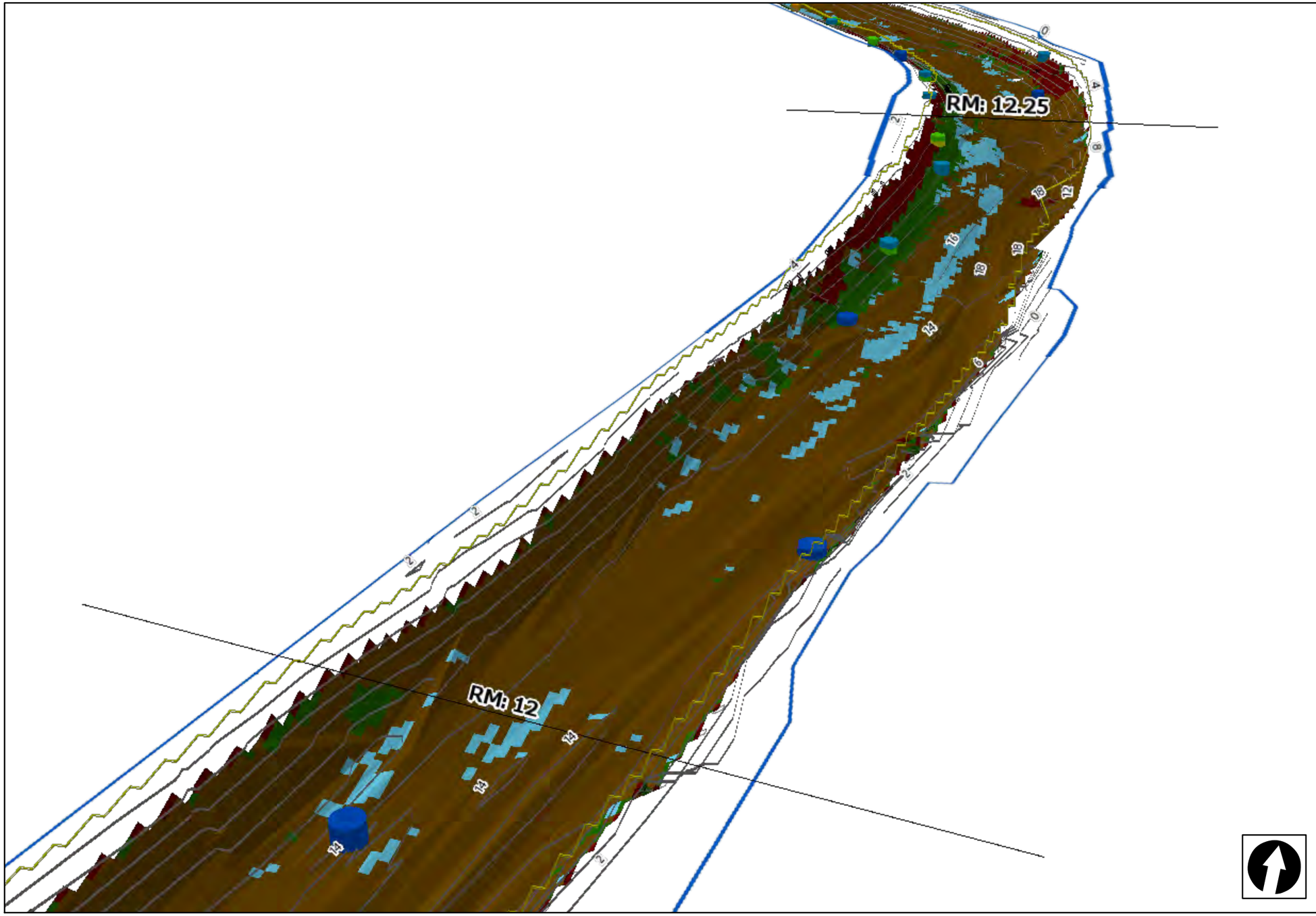
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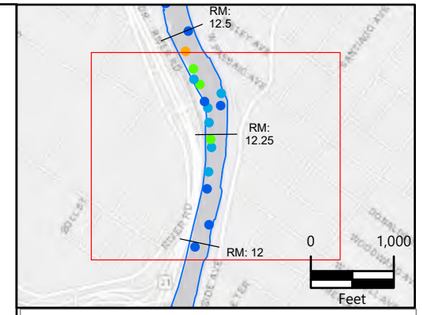
Figure 2-2a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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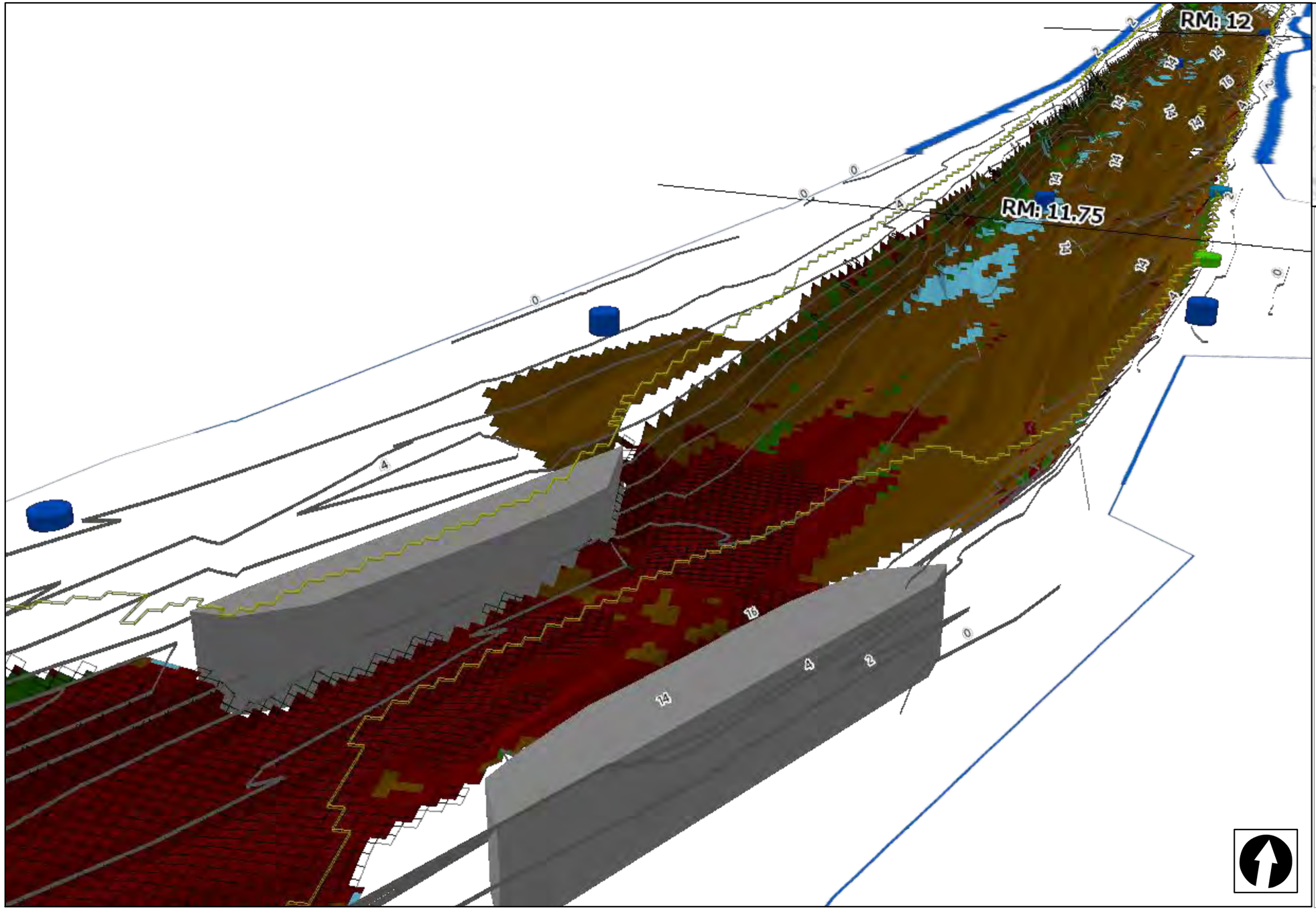
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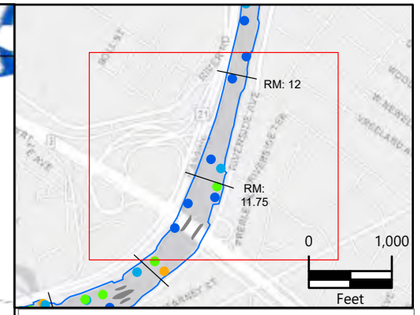
Figure 2-2b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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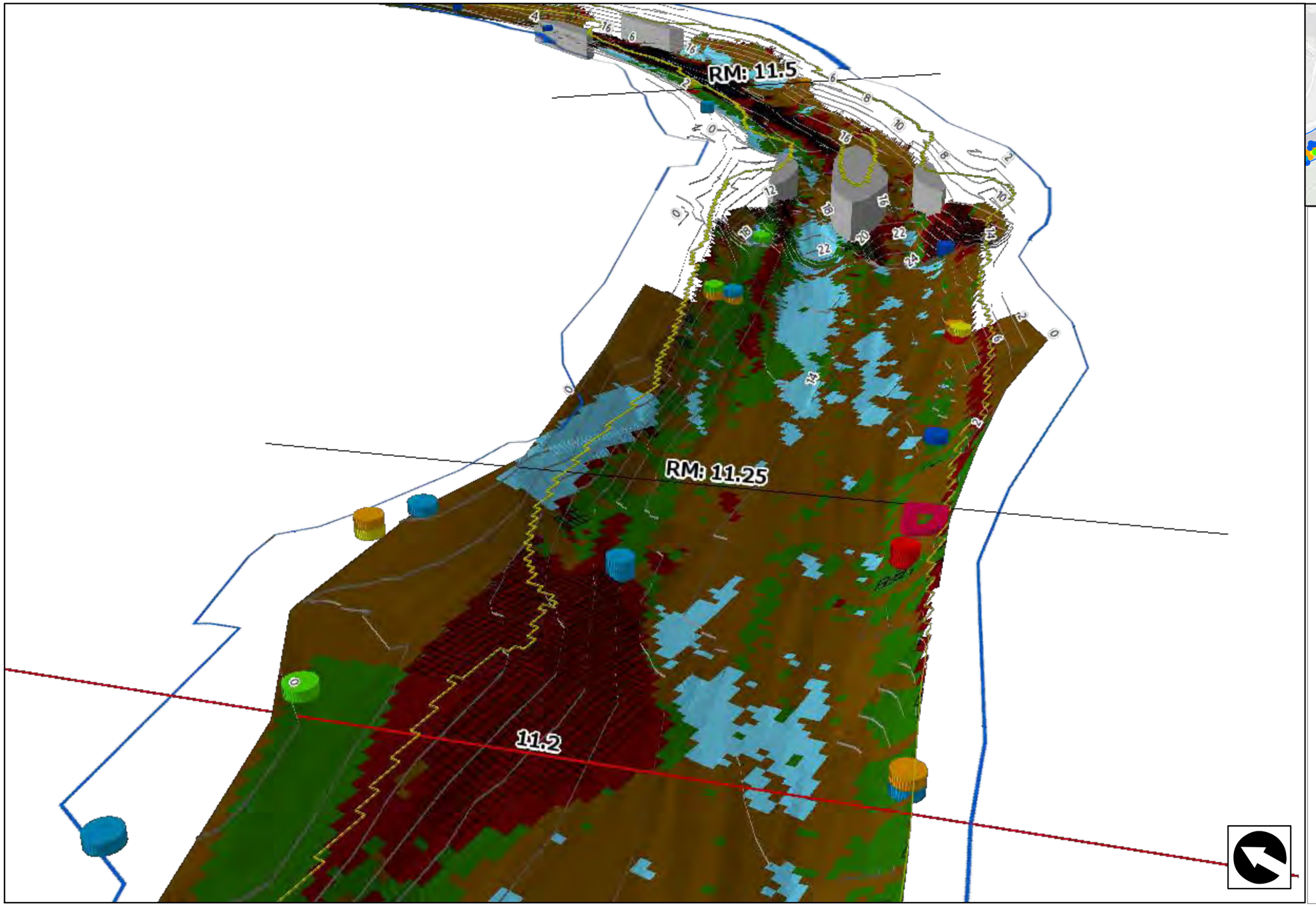
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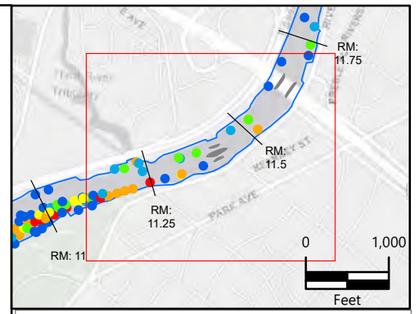
Figure 2-2c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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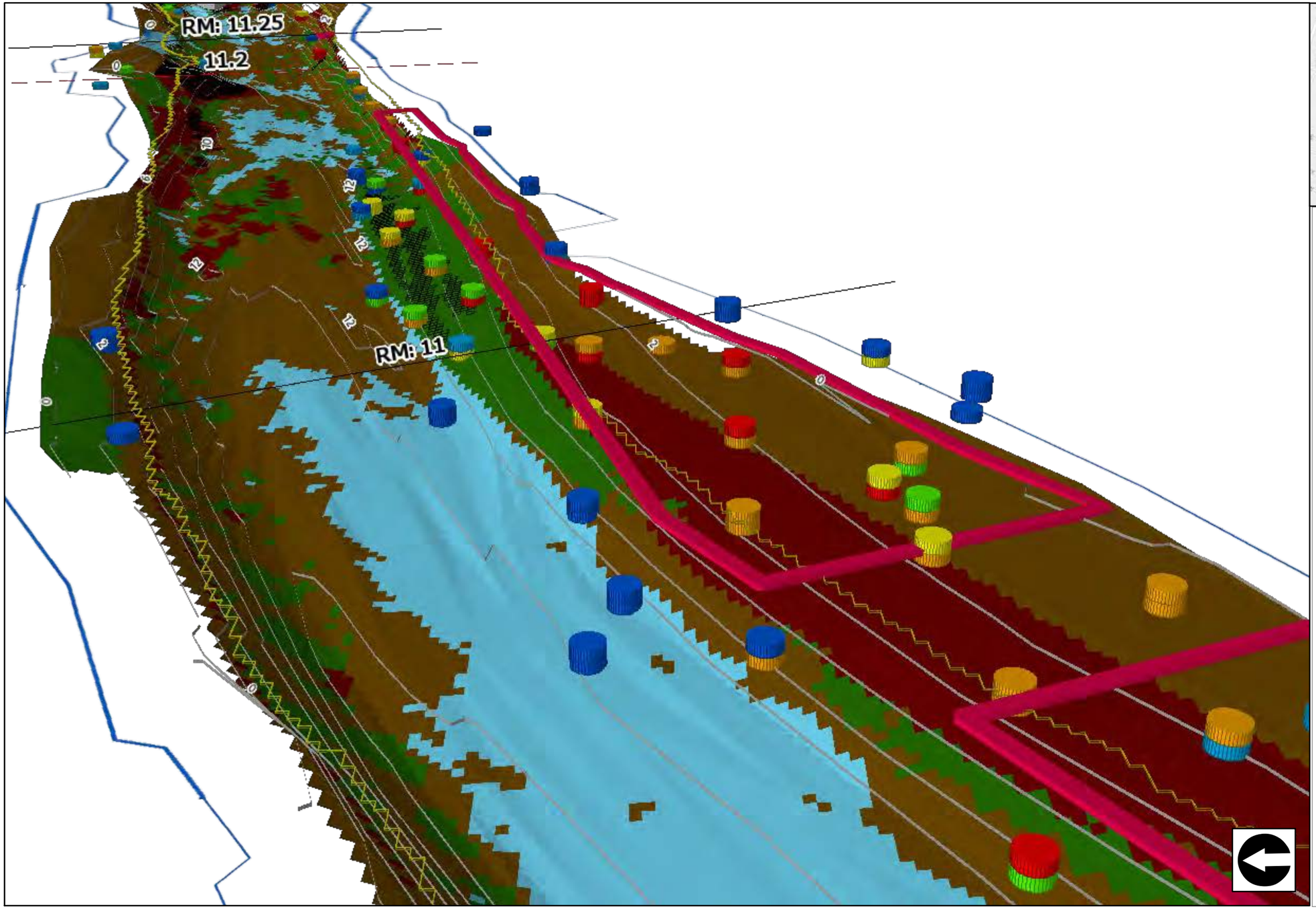
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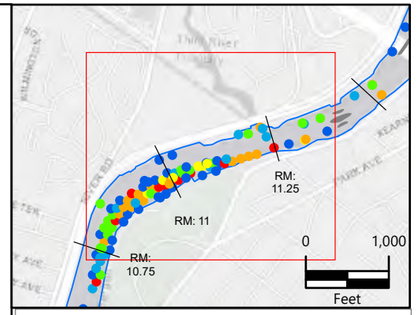
Figure 2-2d

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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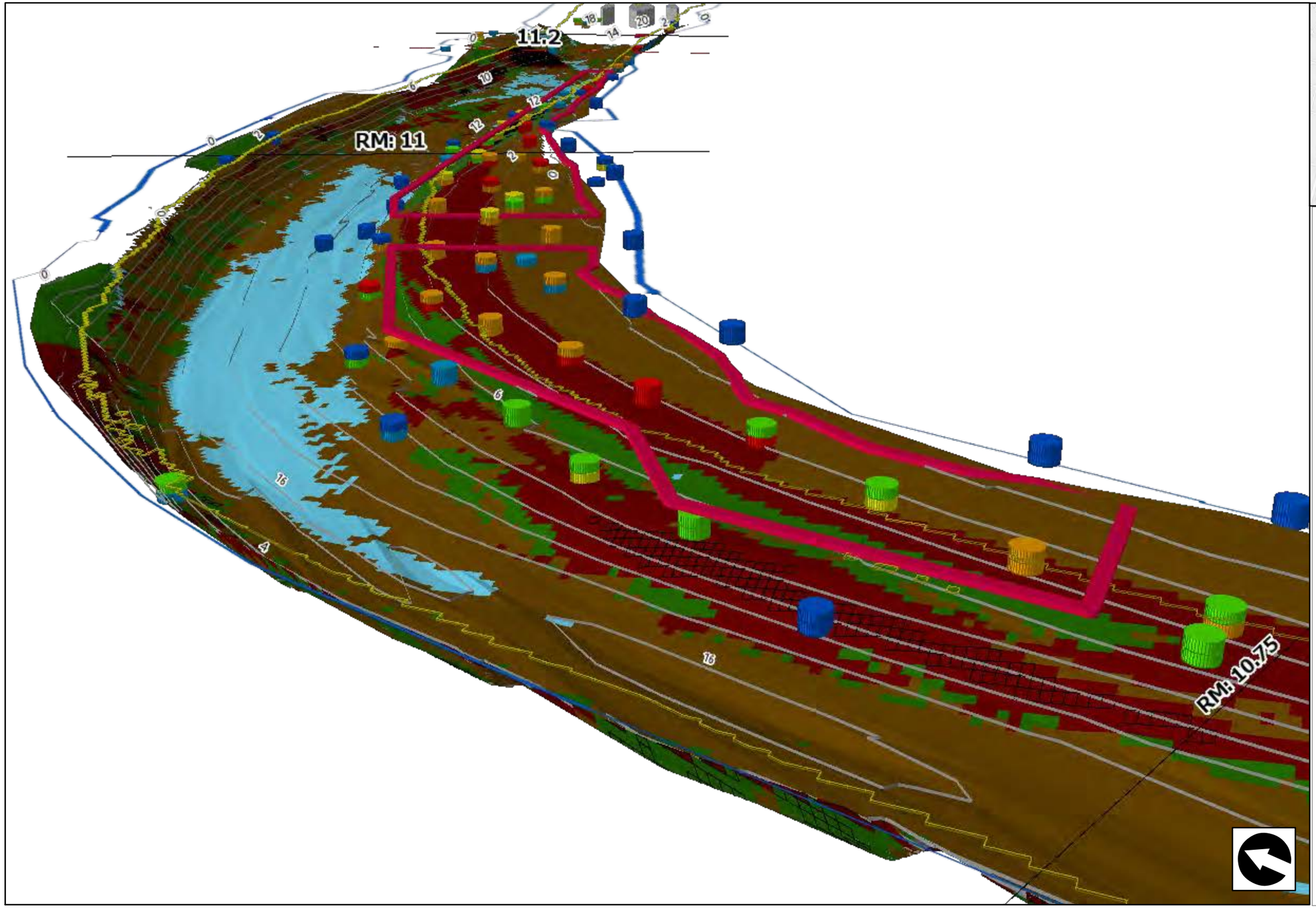
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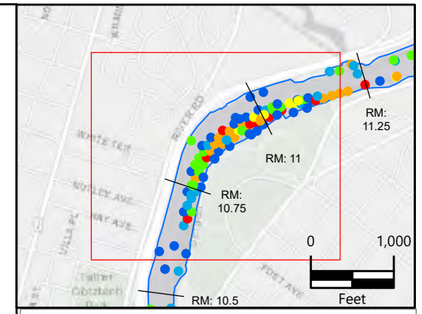
Figure 2-3a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:

The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.

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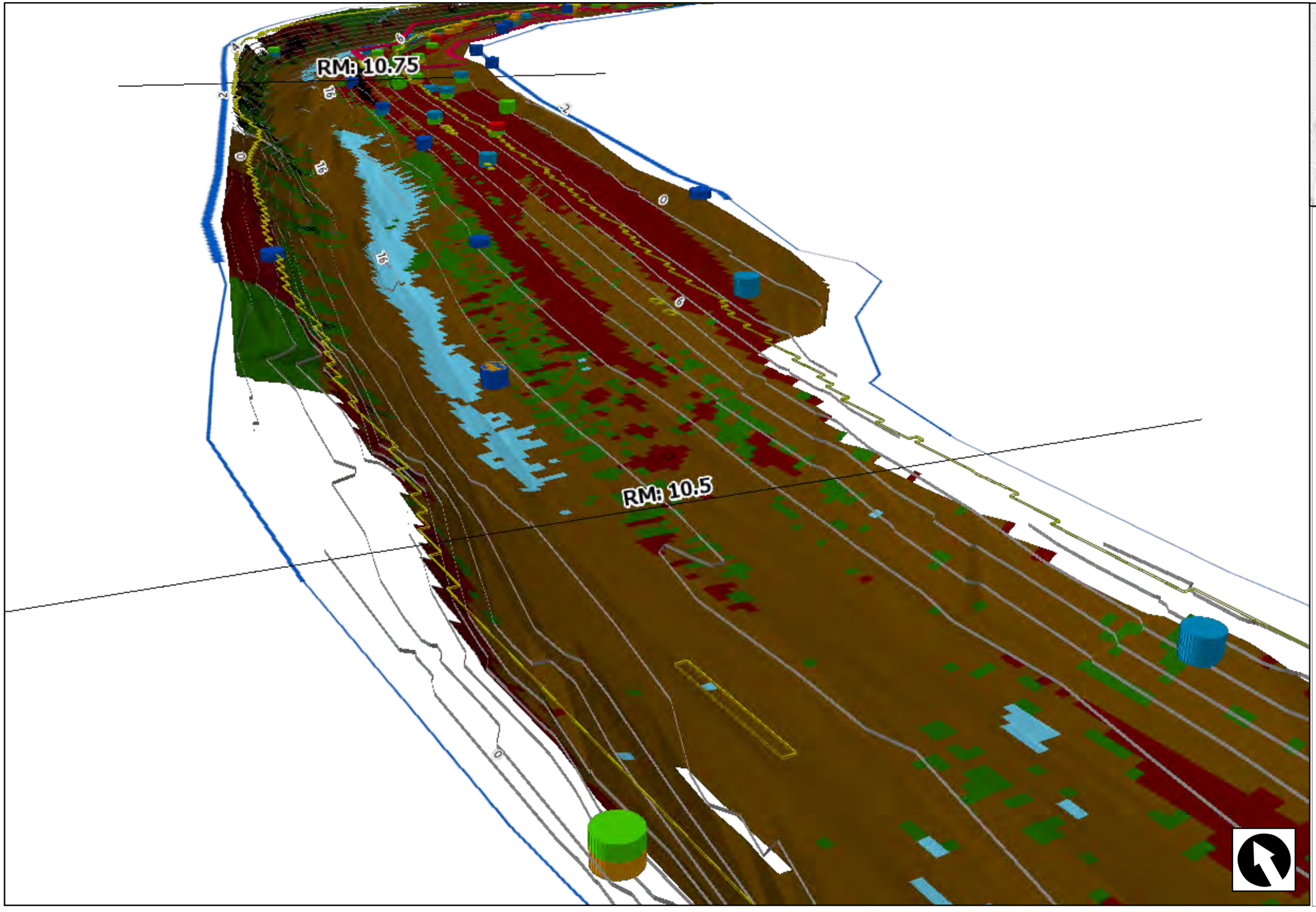
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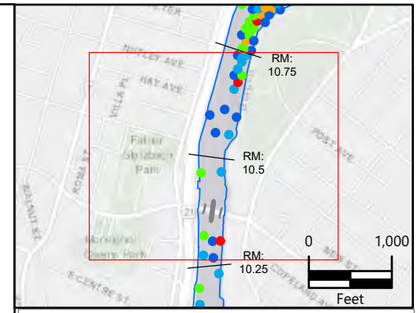
Figure 2-3b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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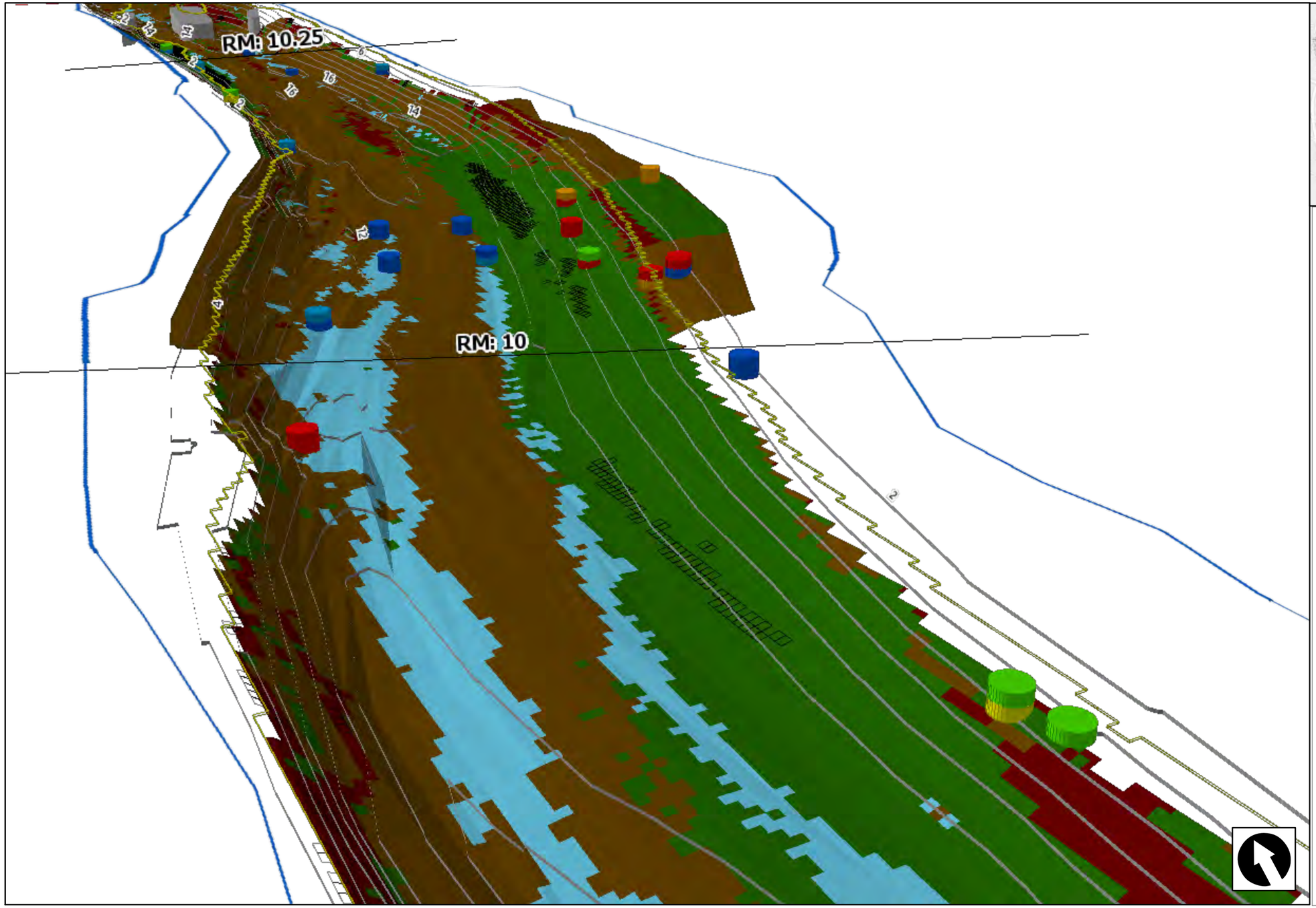
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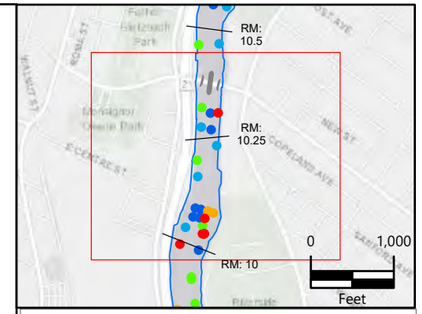
Figure 2-3c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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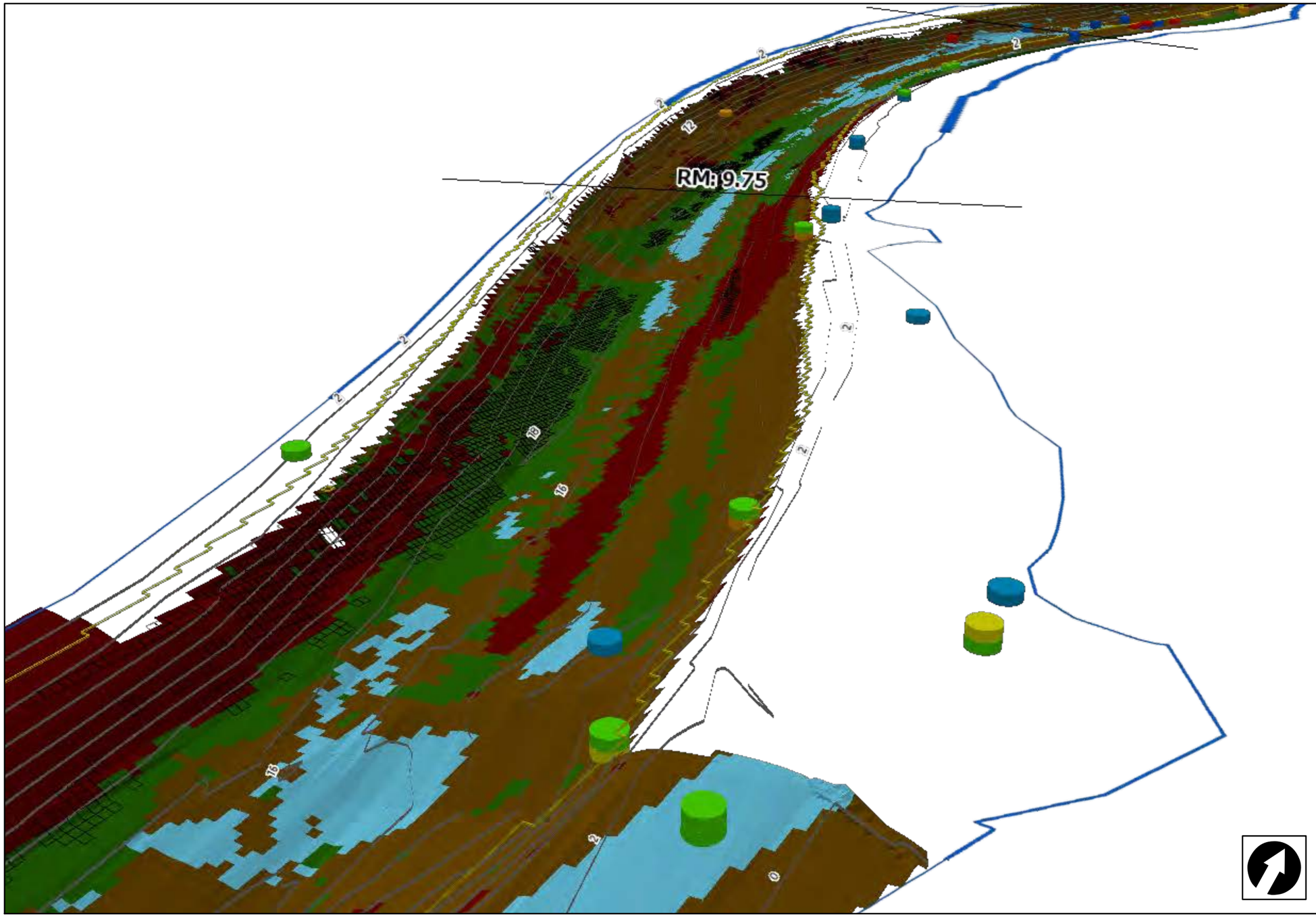
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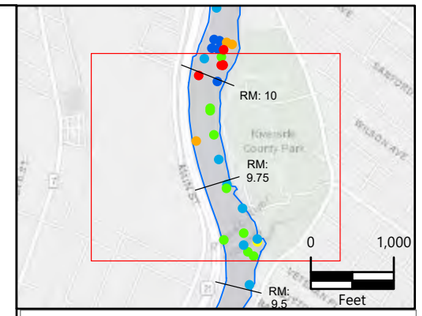
Figure 2-4a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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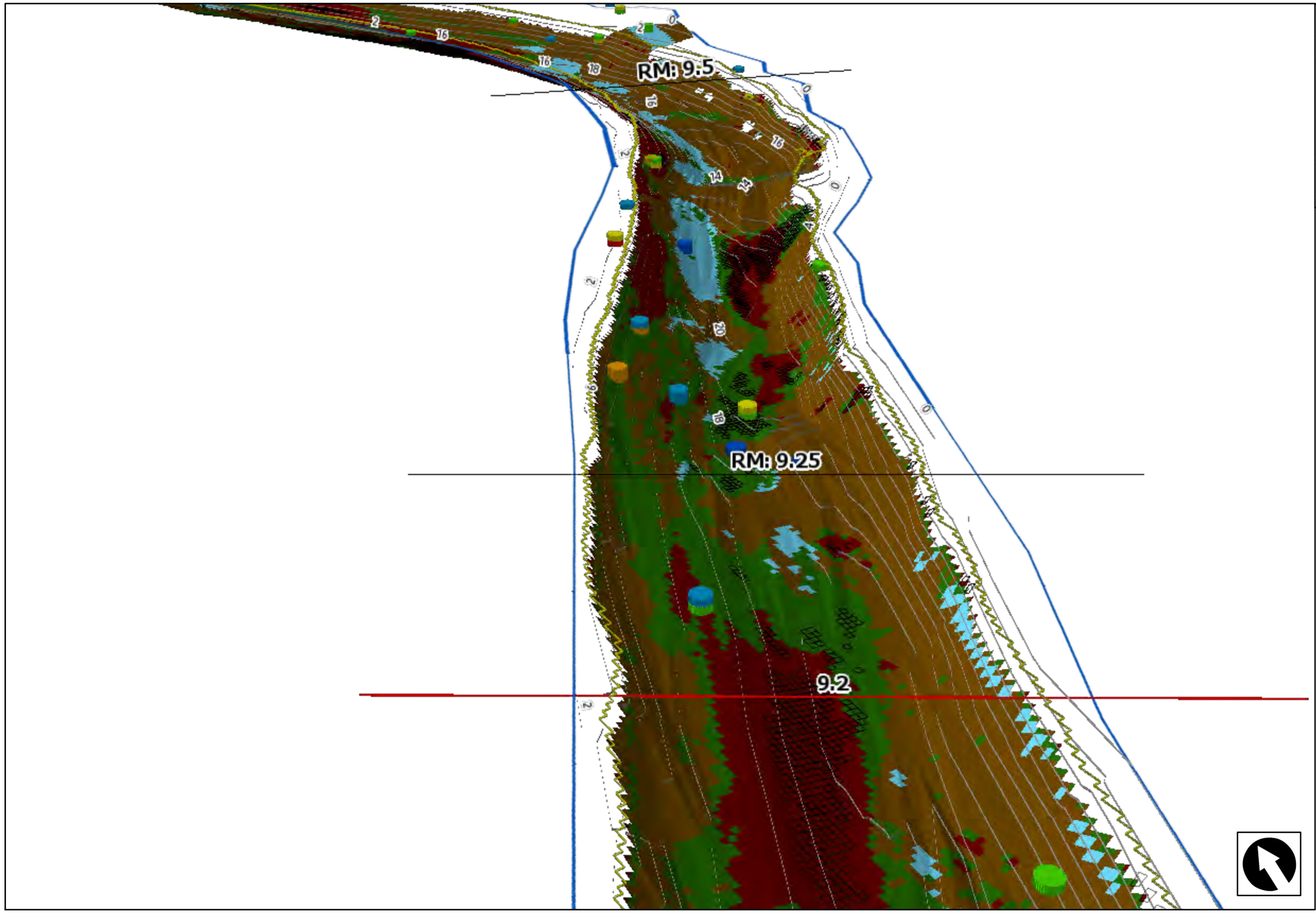
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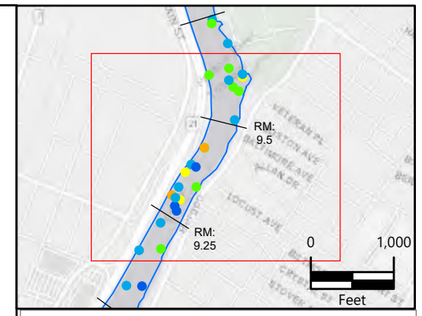
Figure 2-4b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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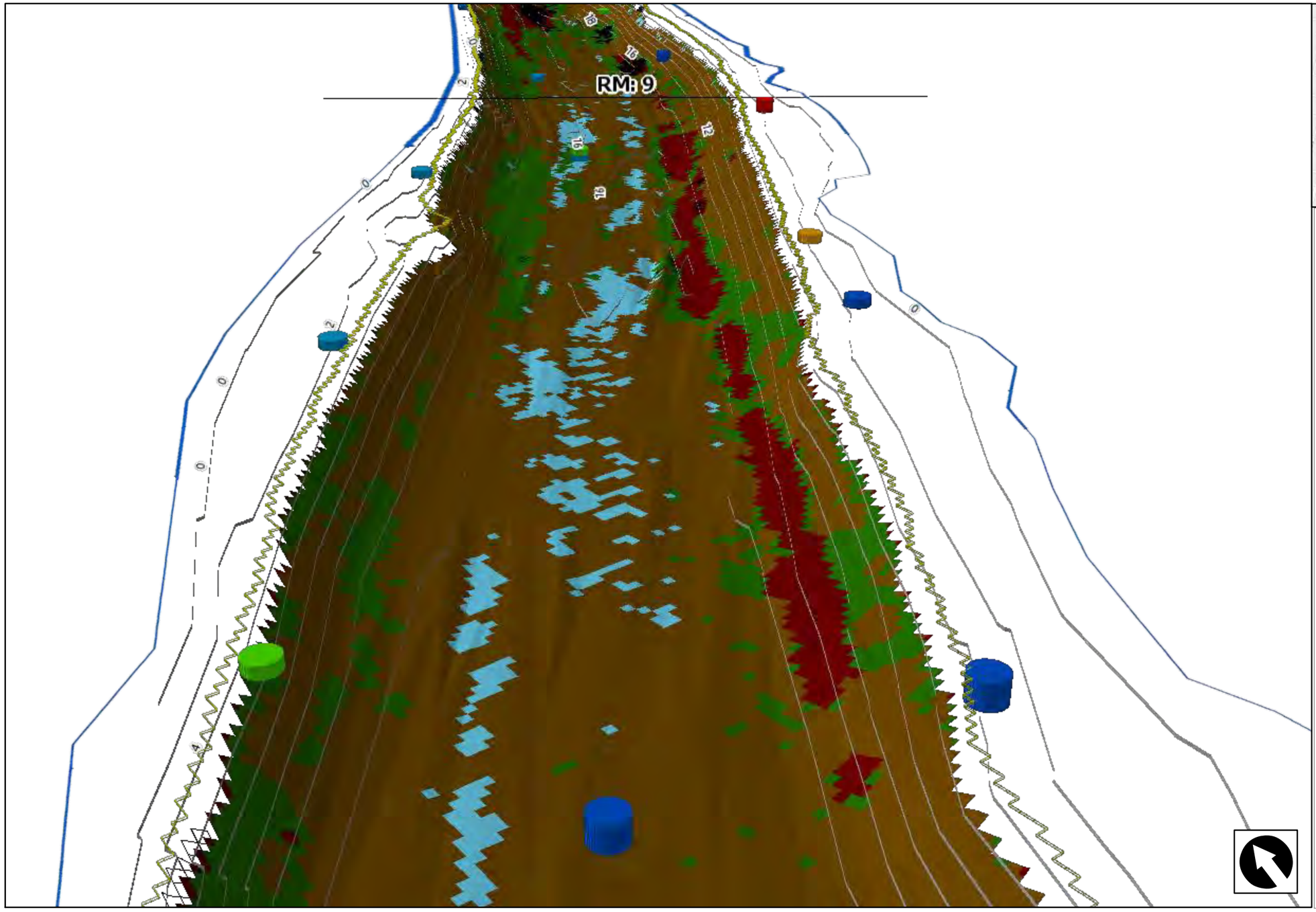
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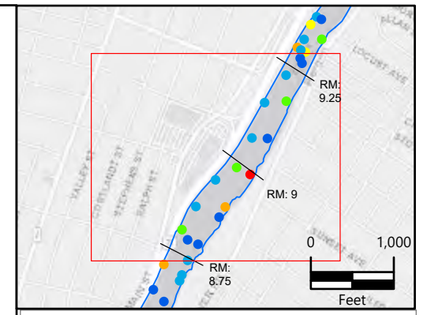
Figure 2-4c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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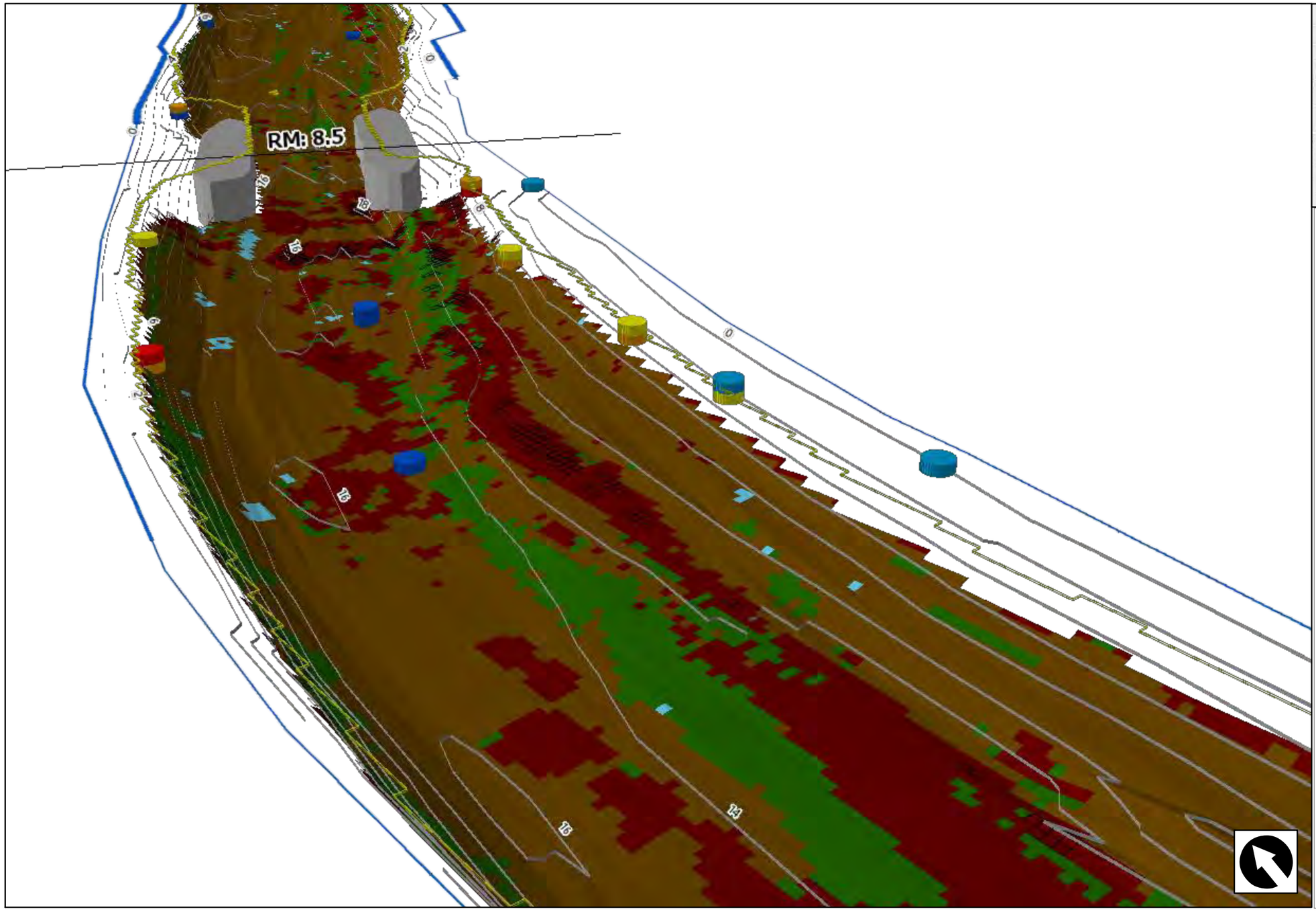
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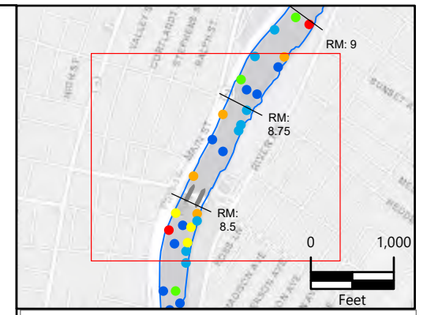
Figure 2-5a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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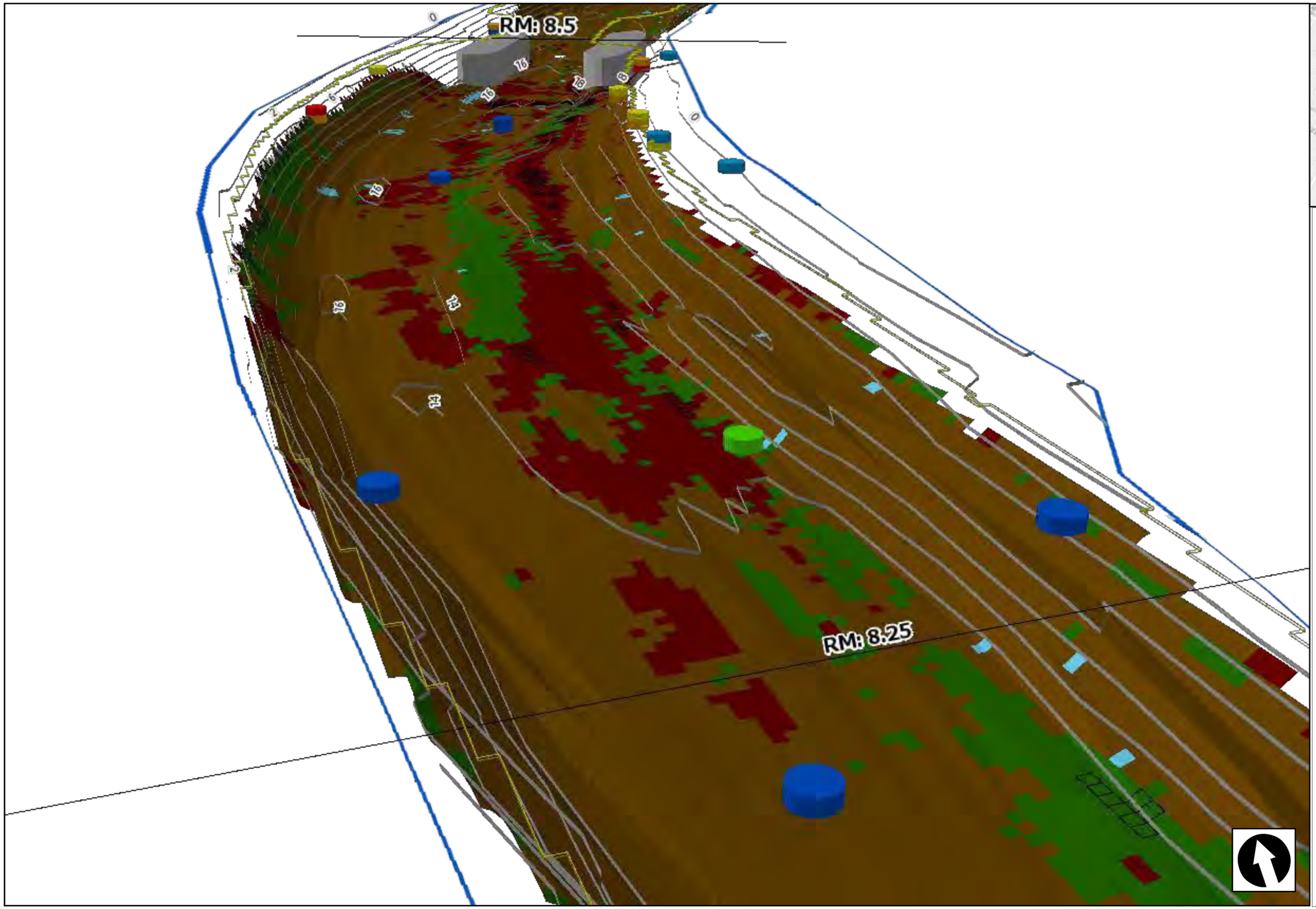
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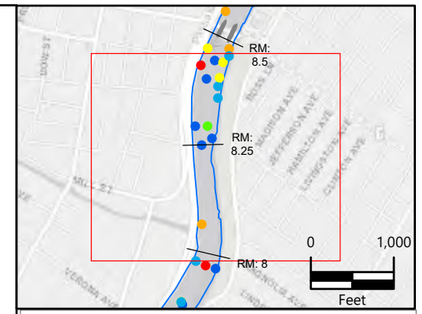
Figure 2-5b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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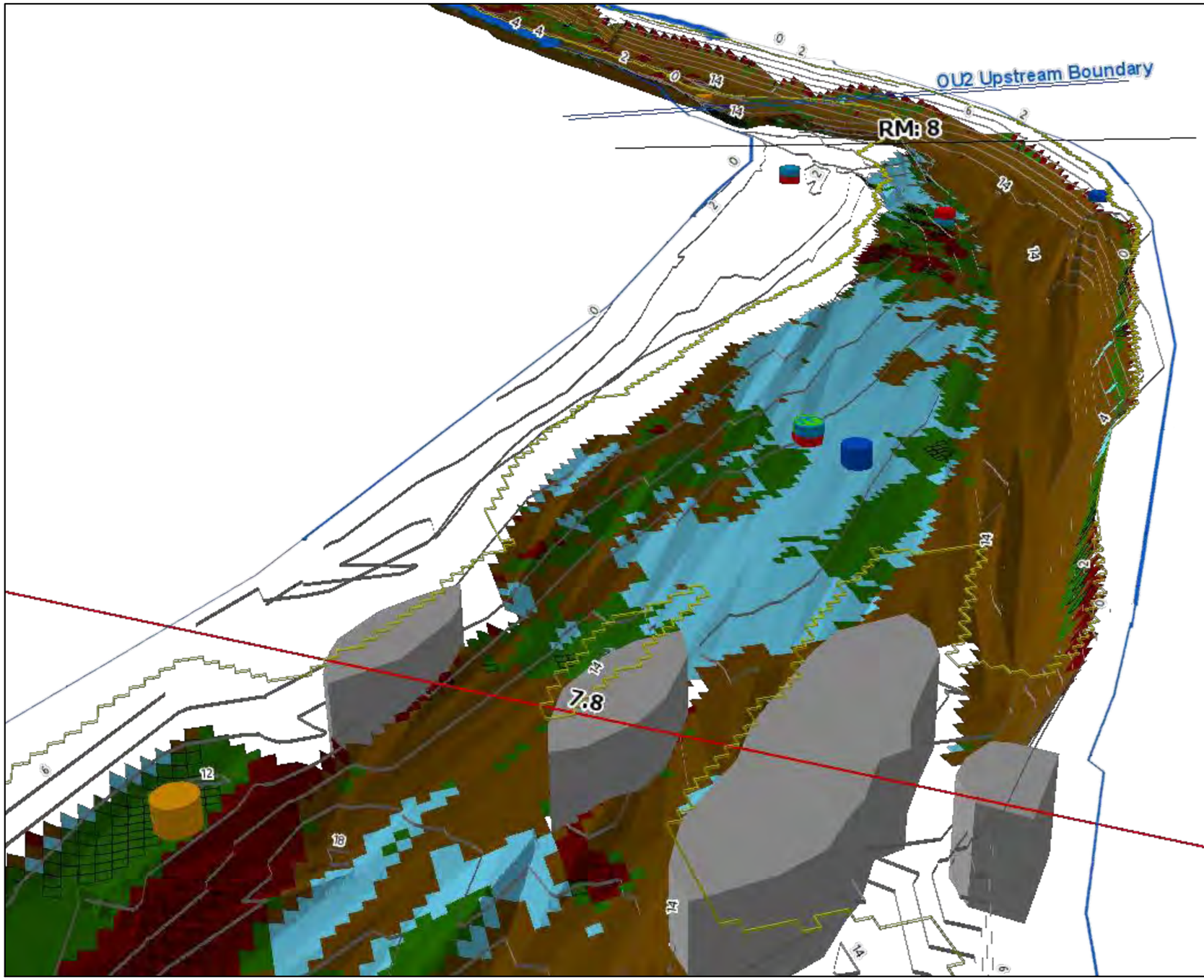
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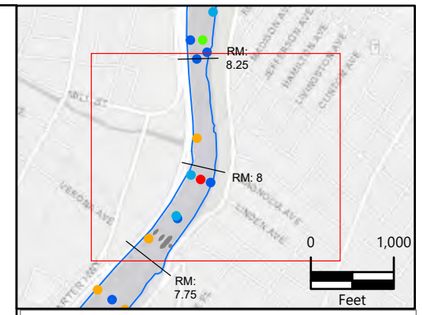
Figure 2-5c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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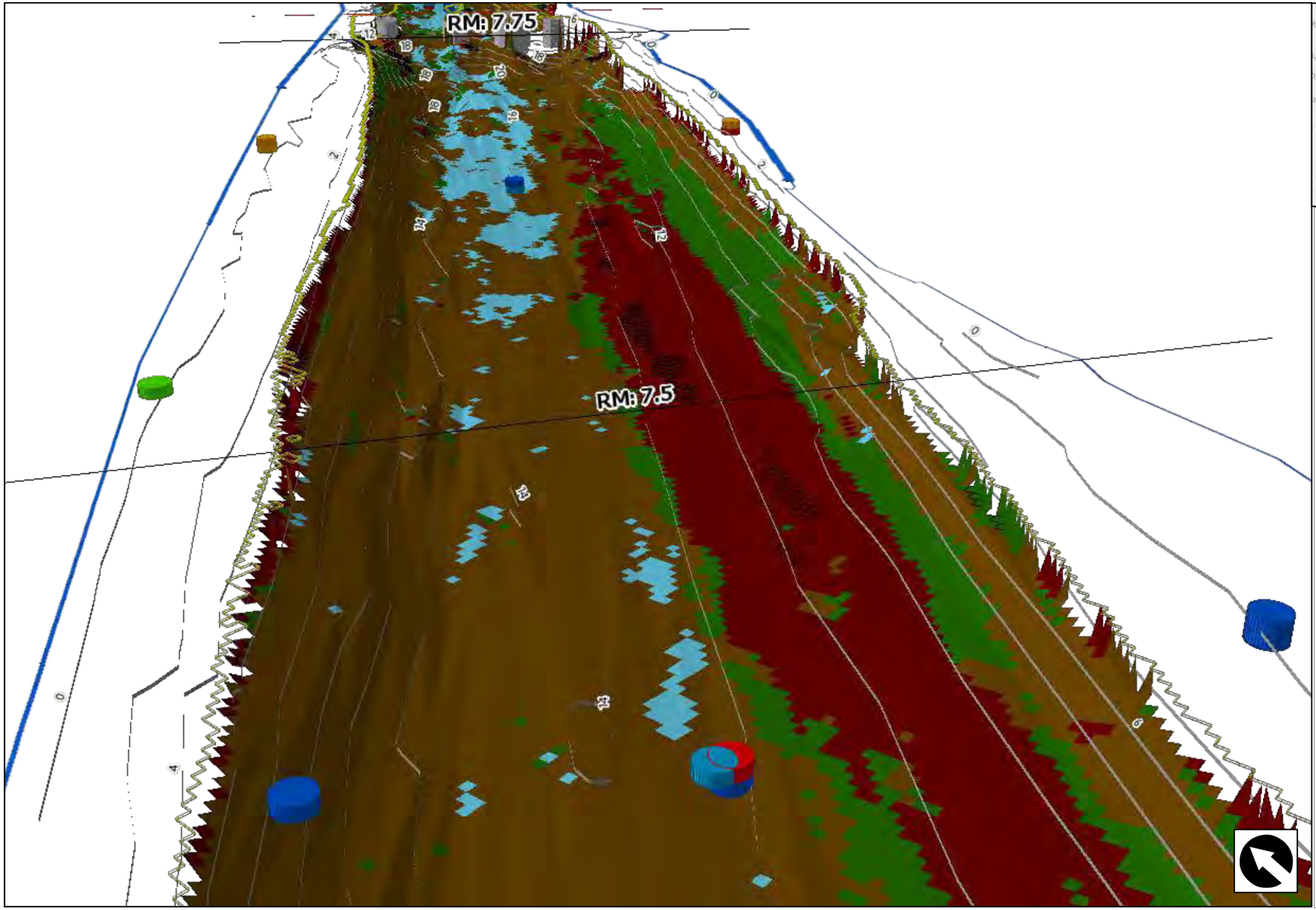
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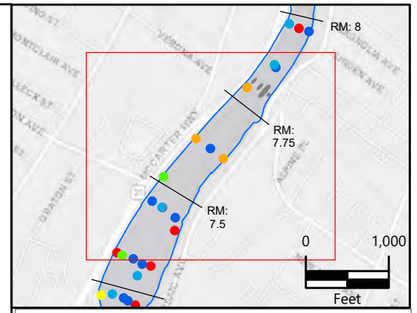
Figure 2-5d

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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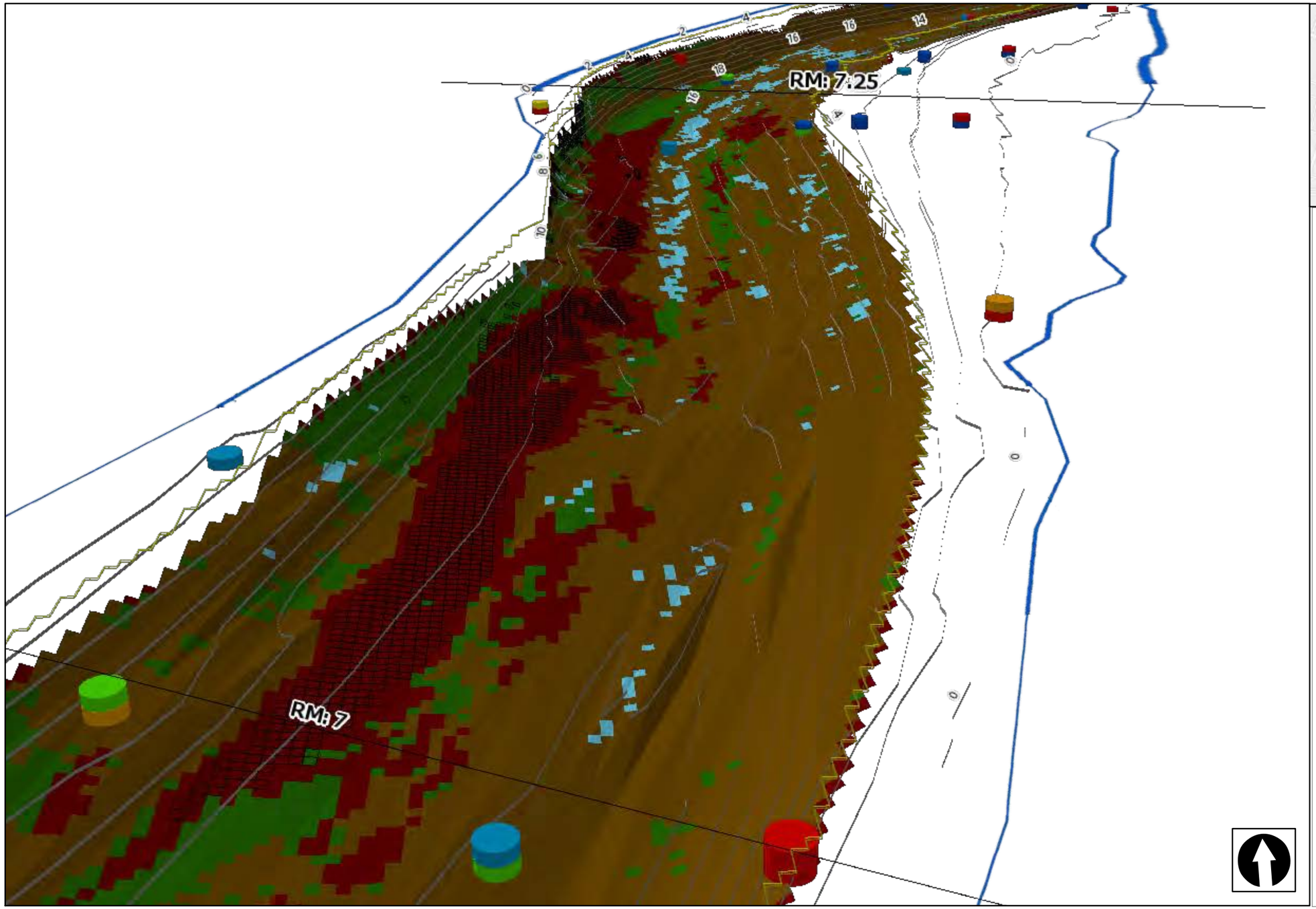
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Figure 2-6a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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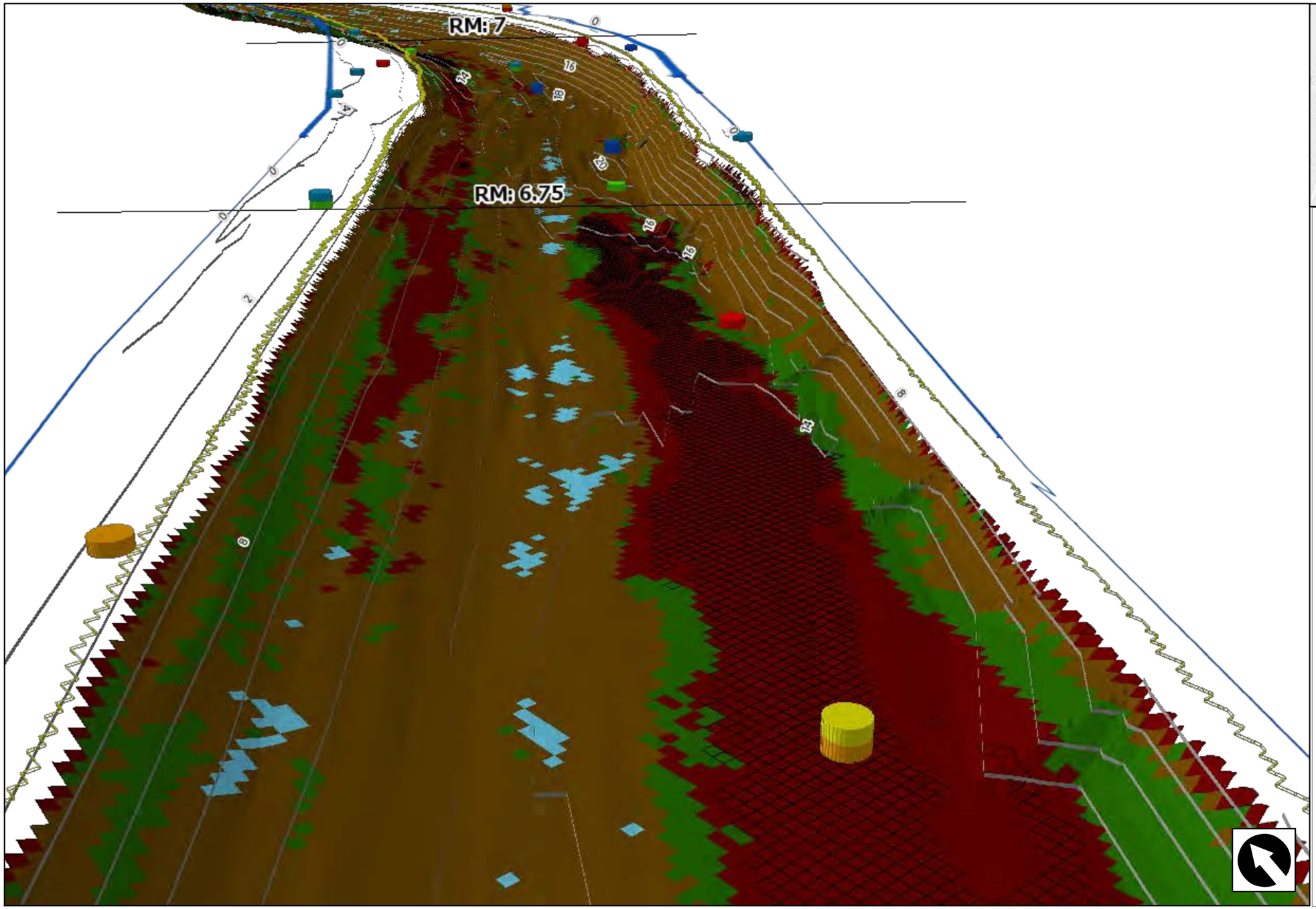
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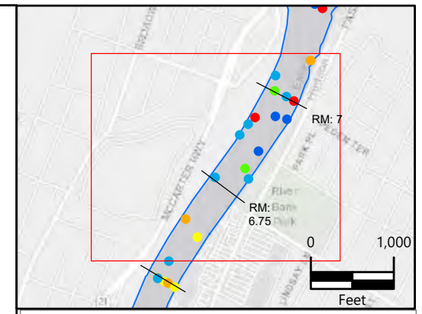
Figure 2-6b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
*A start year of 2007 and end year of 2012 was used for the multi-beam bathymetry. A start year of 2004 and end year of either 2013 or 2012 was used for single-beam bathymetry. Erosion > 1.5 feet is based on the difference between 2007 to 2012 or between the sequential bathymetry surveys in that period.
Bathymetry categories are described in Section 4.1. The multi-beam bathymetry data evaluated at the 5-foot by 5-foot resolution shown here is used to distinguish differences greater than 6 inches between surveys. See Appendix A for a discussion of bathymetric uncertainty. White areas have no bathymetric change category. Contour labels are feet below mean sea level (NGVD 29). Cores located in the TCRA Area were subjected to remediation in 2013-2014.

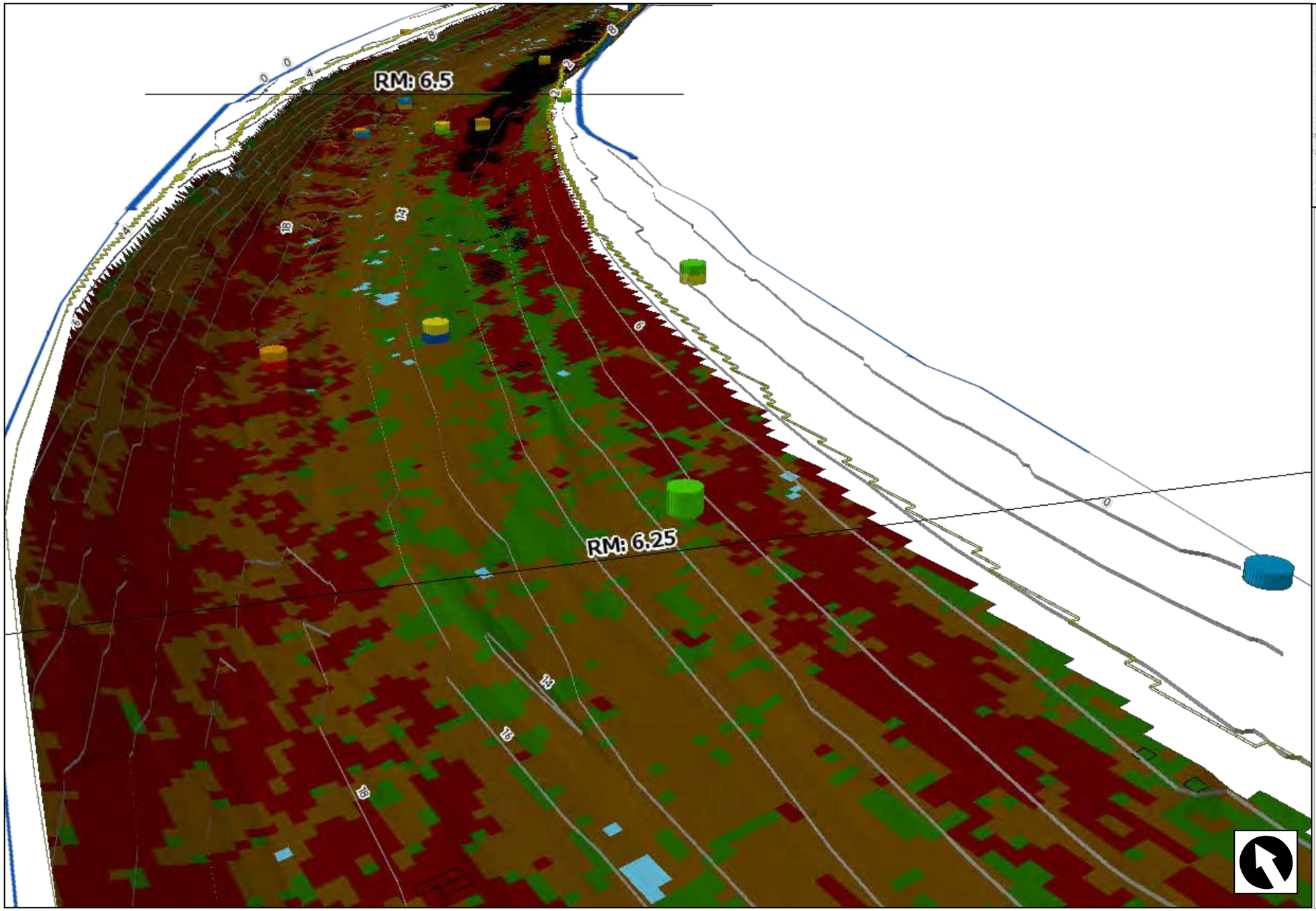
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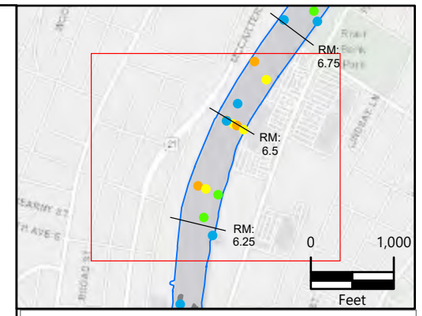
Figure 2-6c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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Bathymetry categories are described in Section 4.1. The multi-beam bathymetry data evaluated at the 5-foot by 5-foot resolution shown here is used to distinguish differences greater than 6 inches between surveys. See Appendix A for a discussion of bathymetric uncertainty. White areas have no bathymetric change category. Contour labels are feet below mean sea level (NGVD 29). Cores located in the TCRA Area were subjected to remediation in 2013-2014.

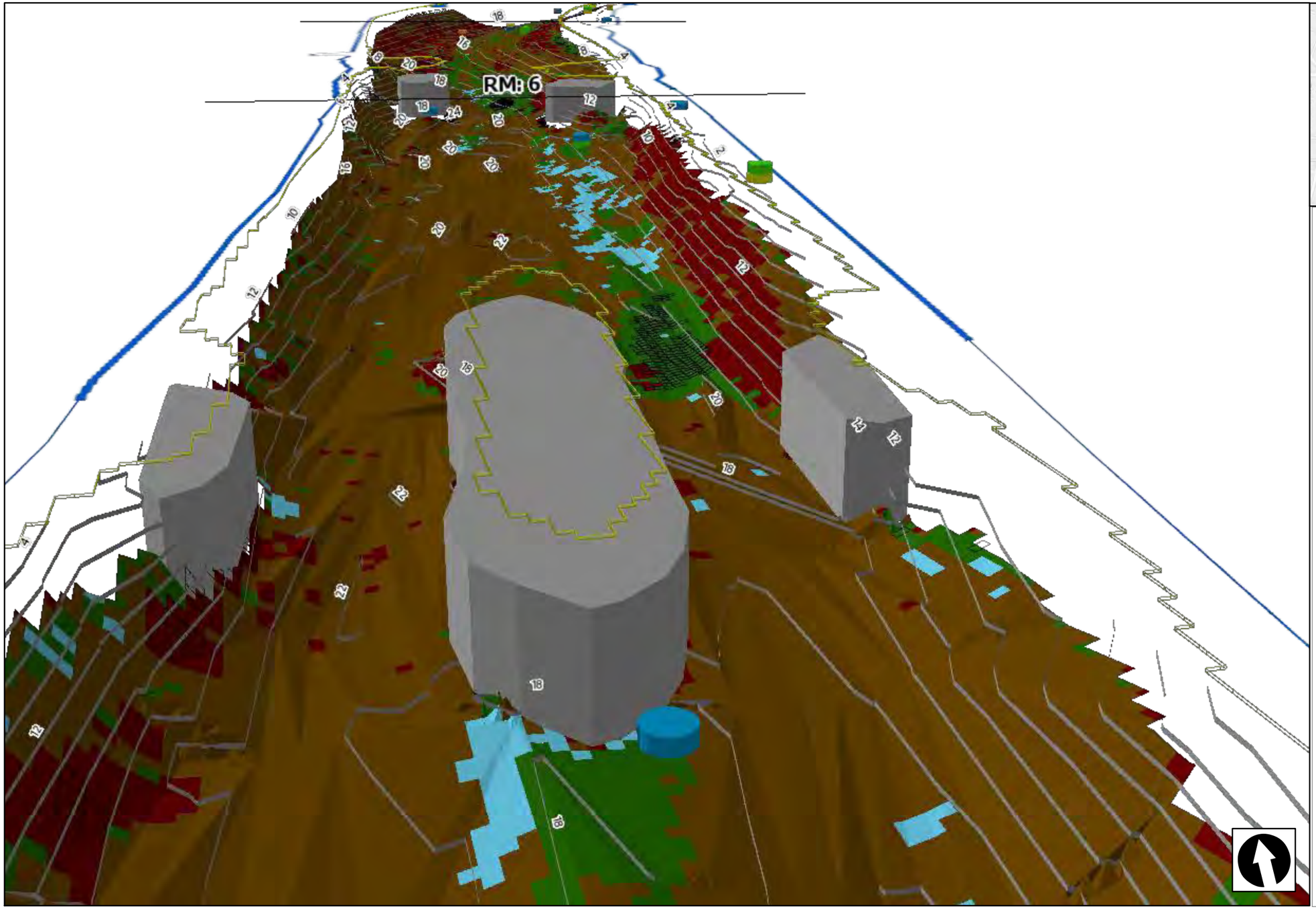
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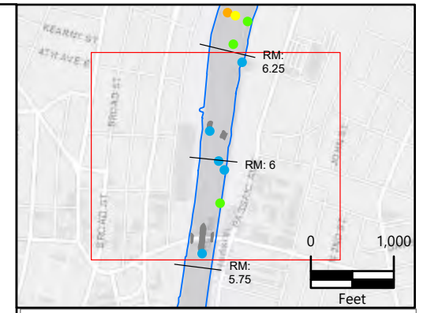
Figure 2-6d

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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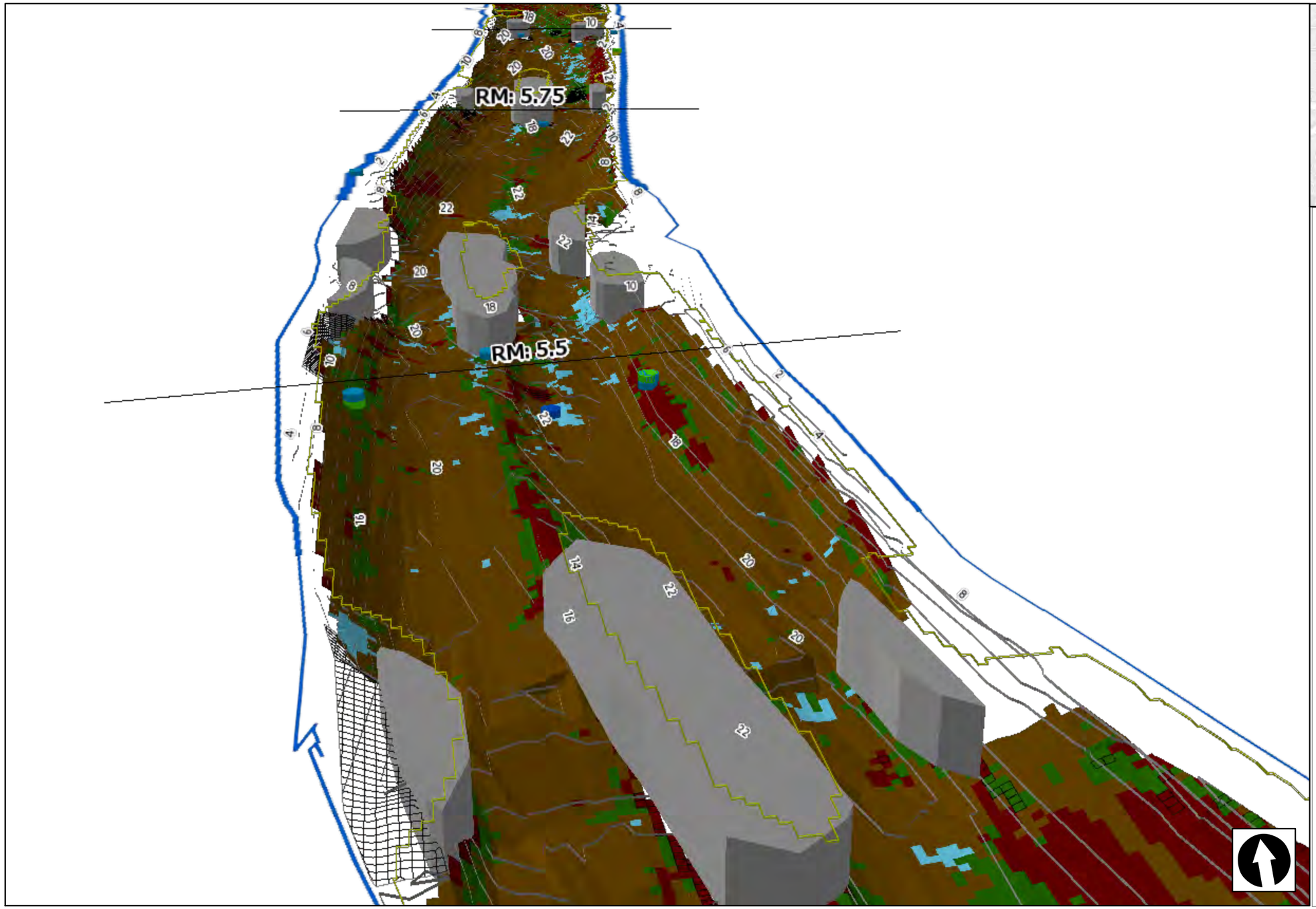
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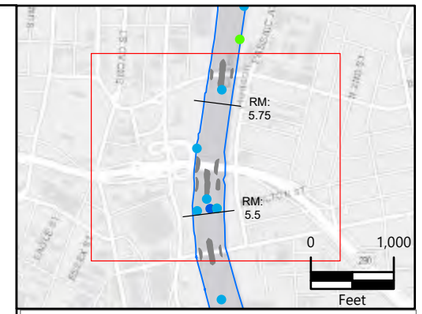
Figure 2-6e

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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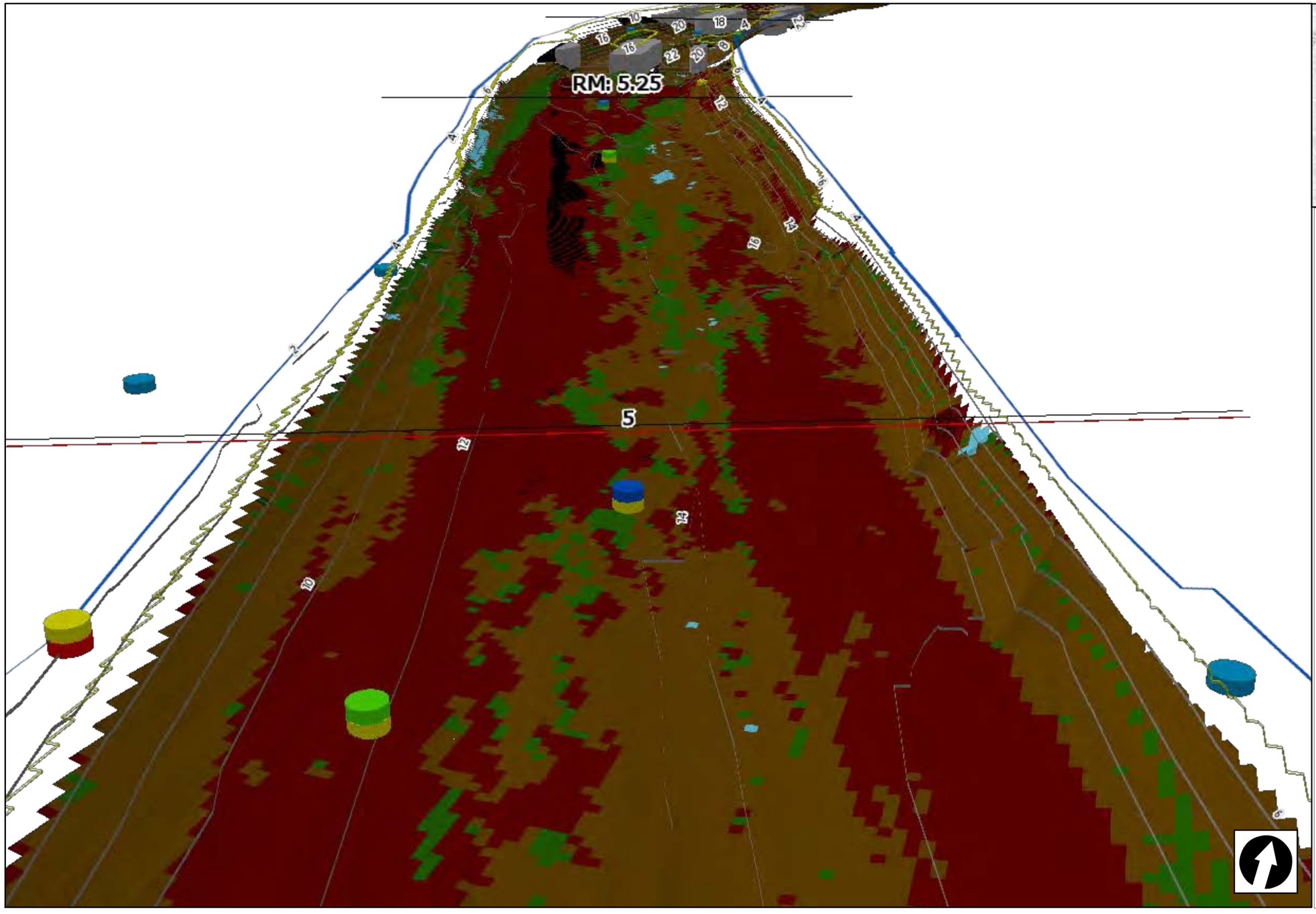
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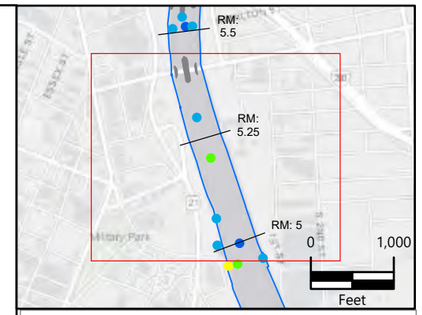
Figure 2-6f

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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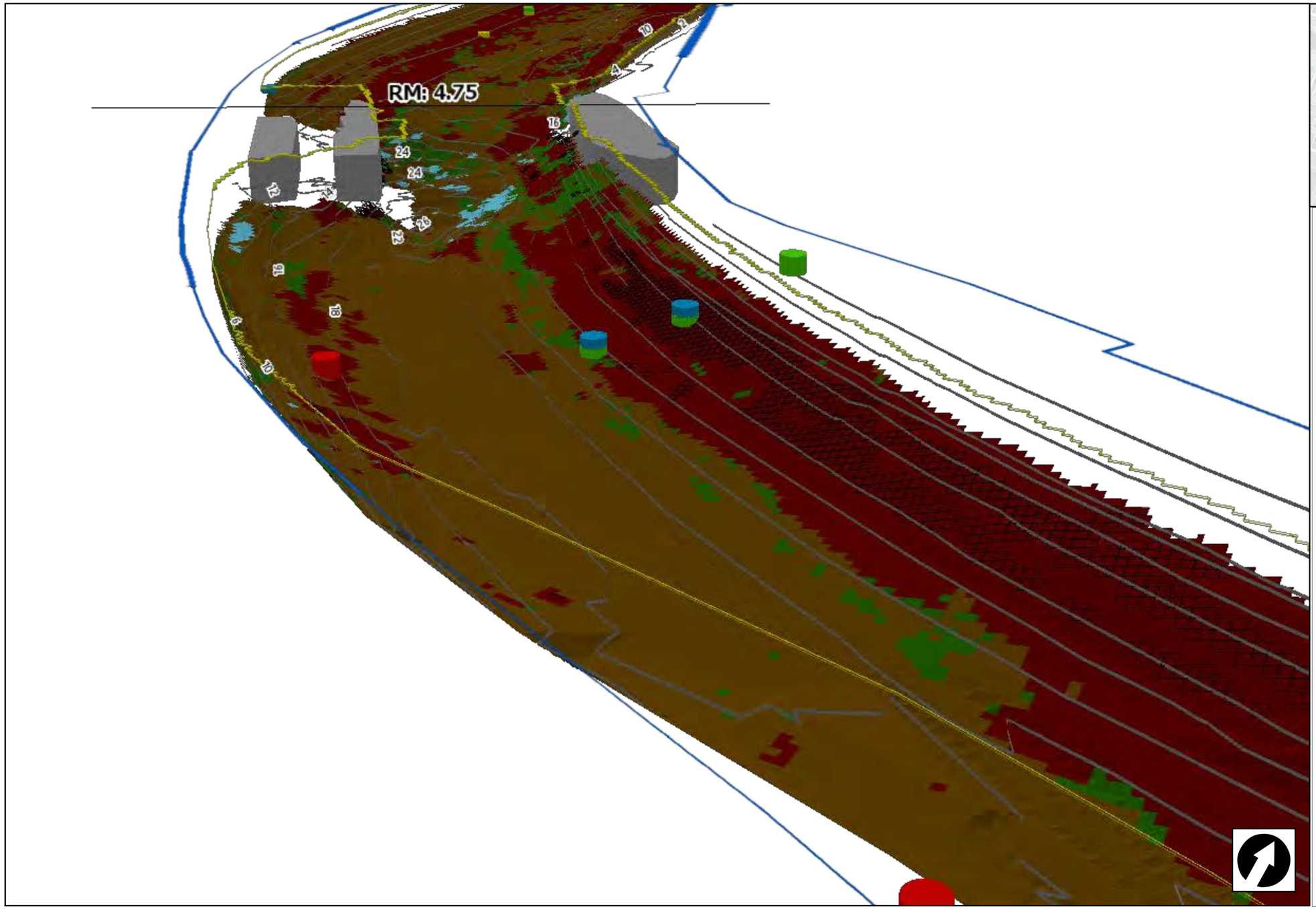
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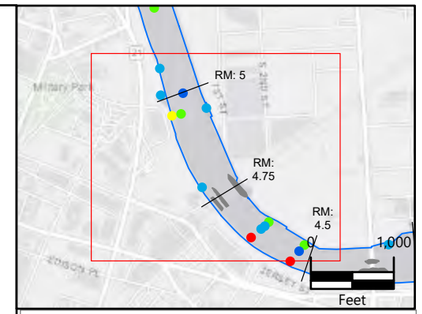
Figure 2-6g

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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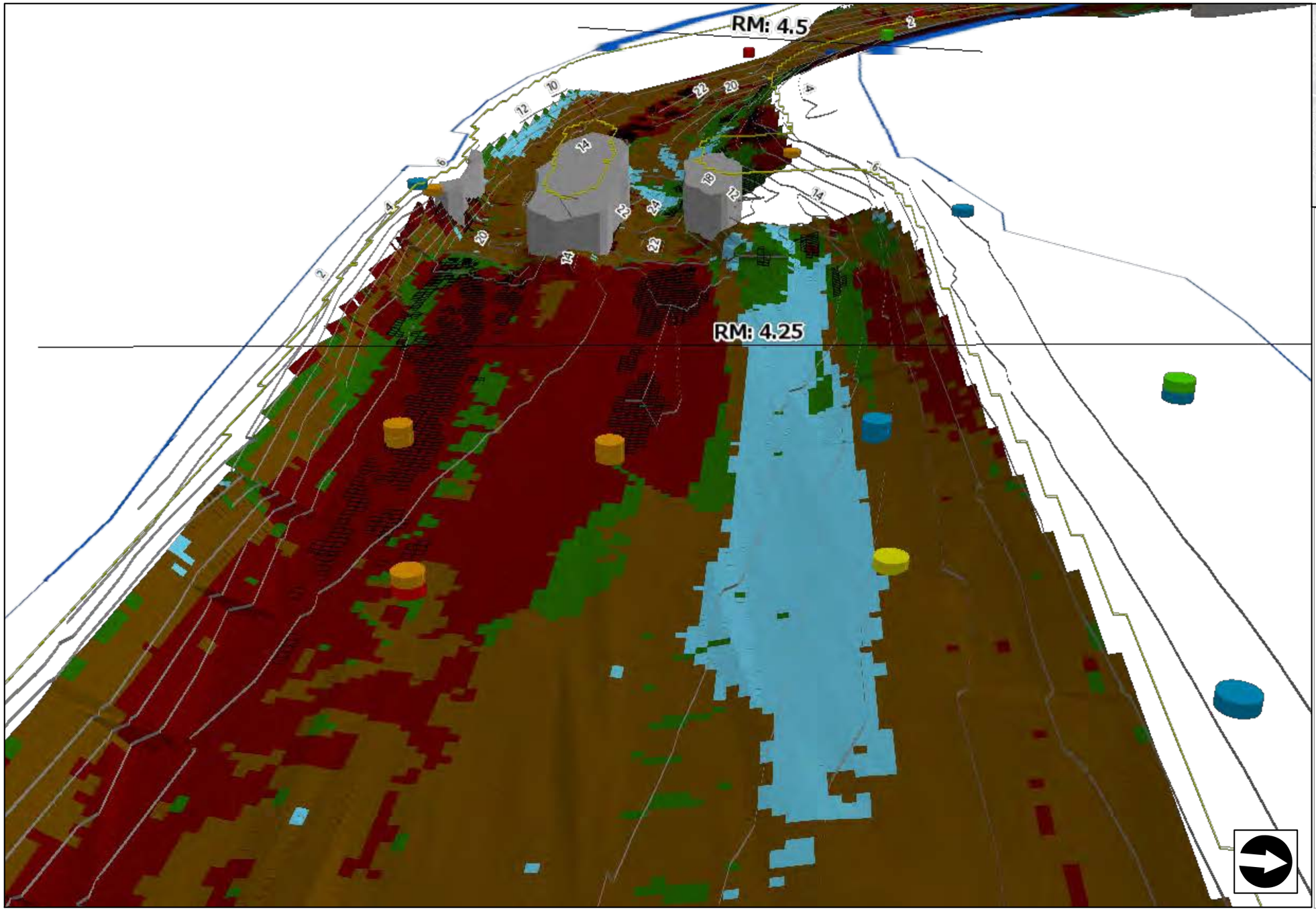
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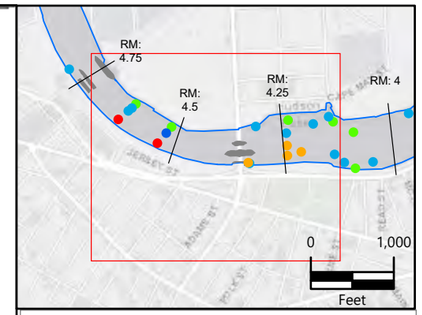
Figure 2-7a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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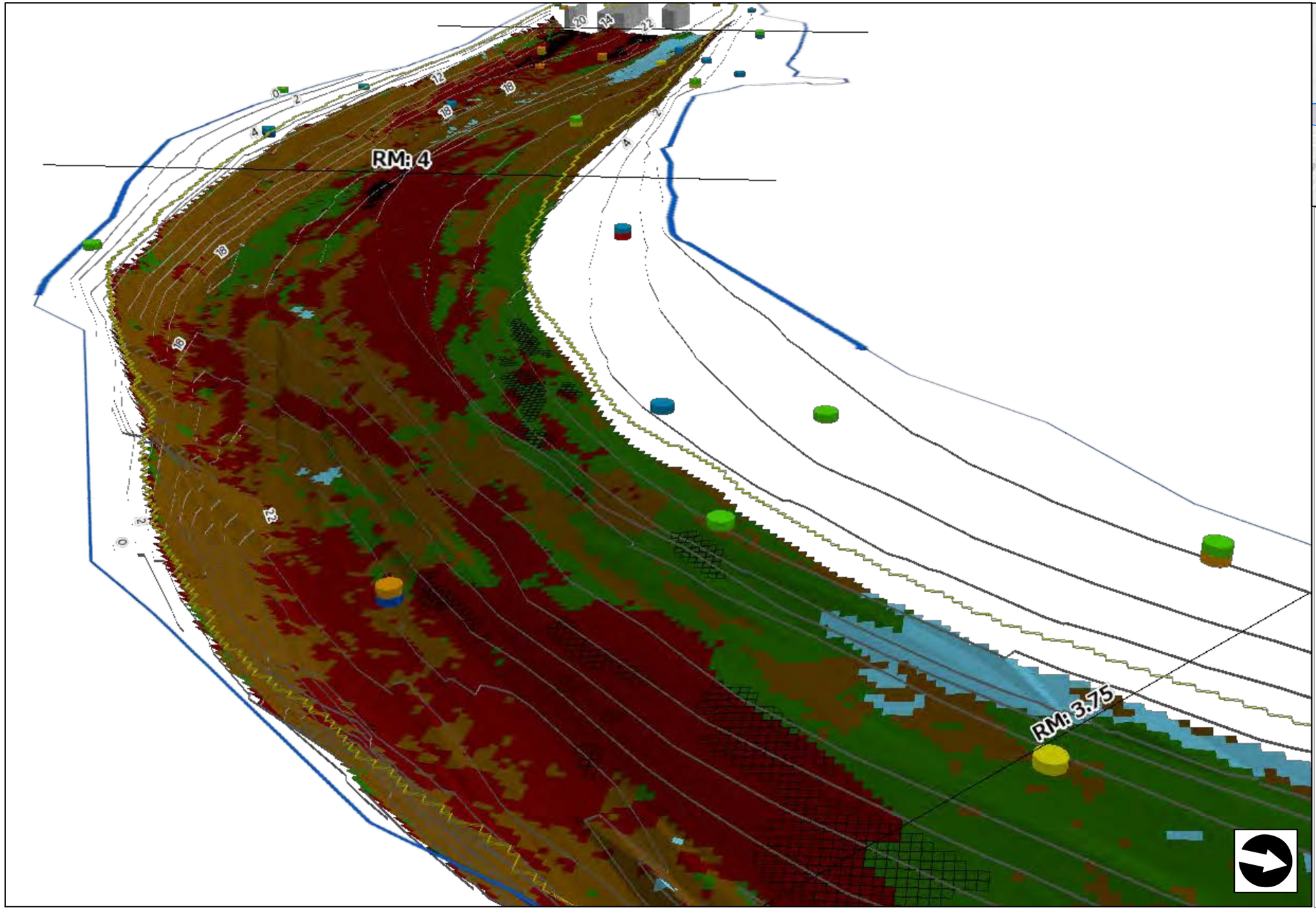
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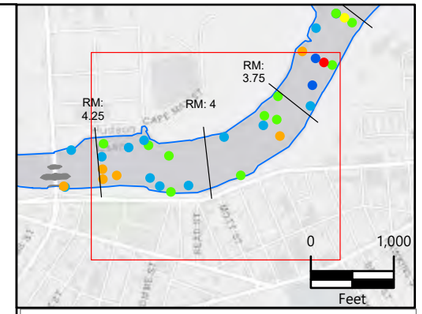
Figure 2-7b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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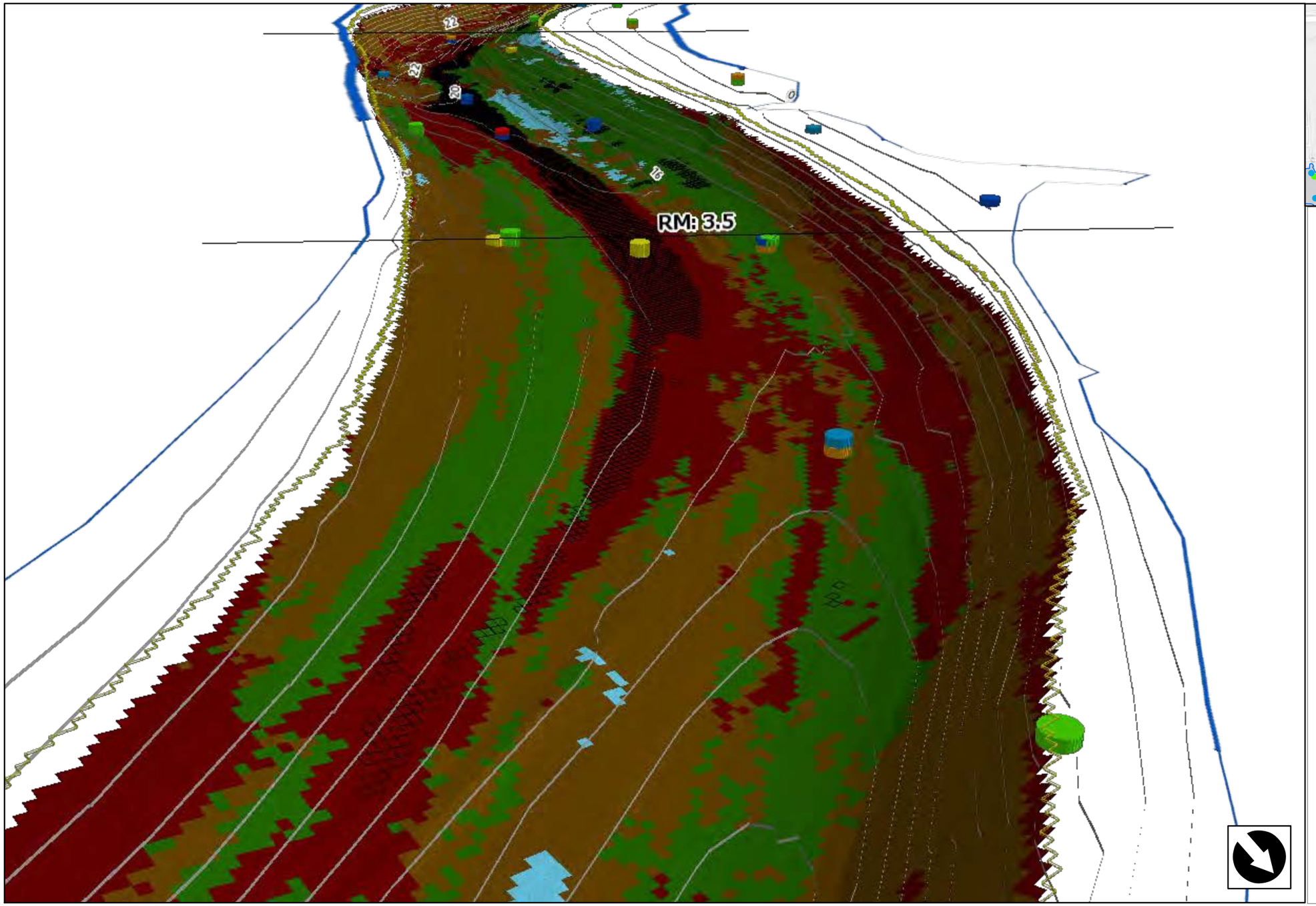
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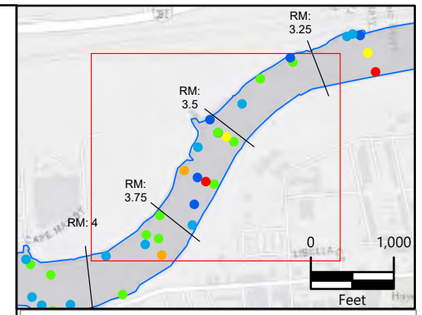
Figure 2-7c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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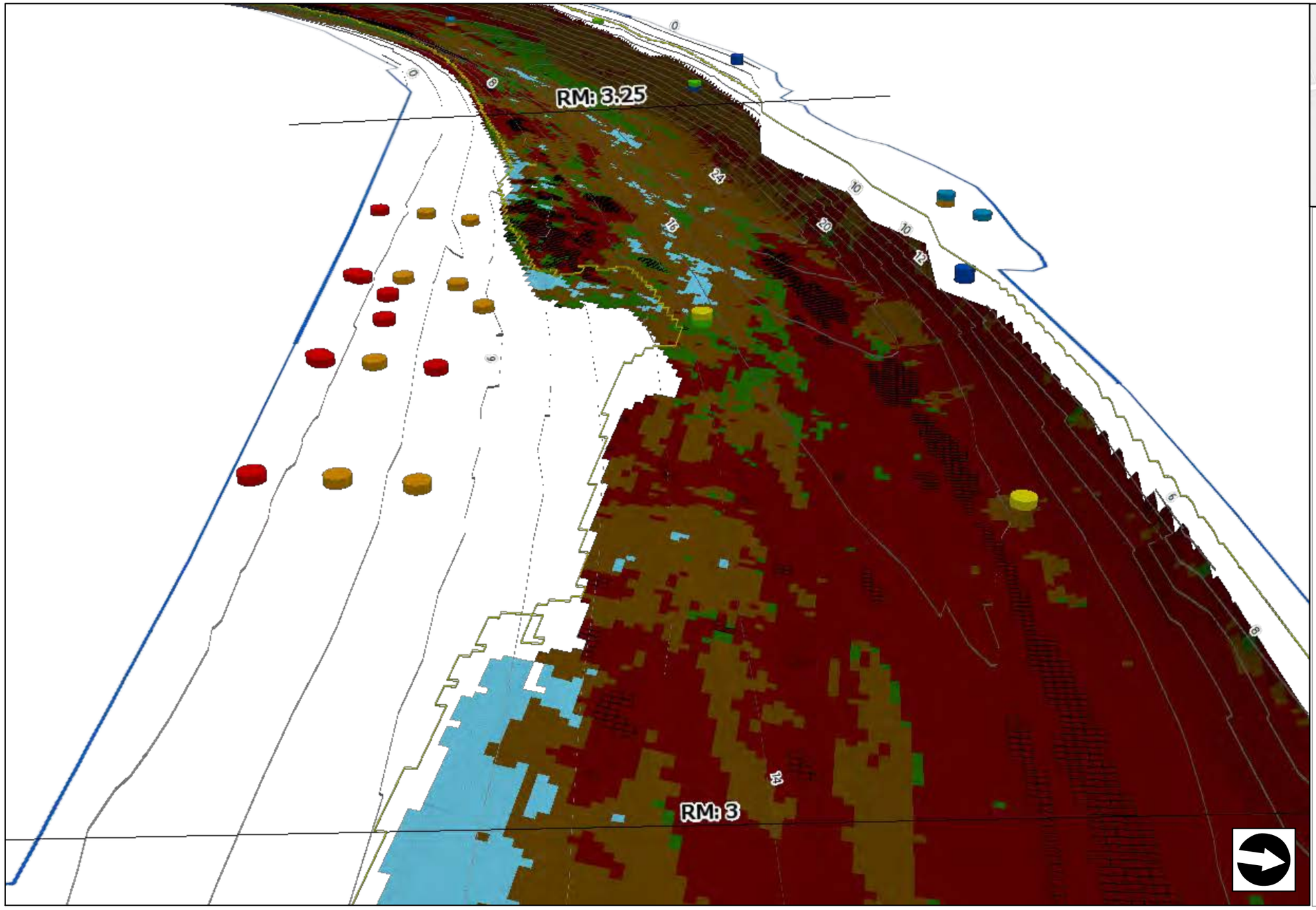
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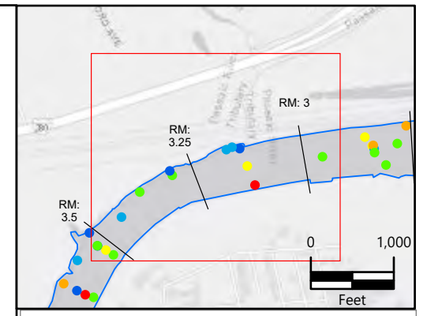
Figure 2-7d

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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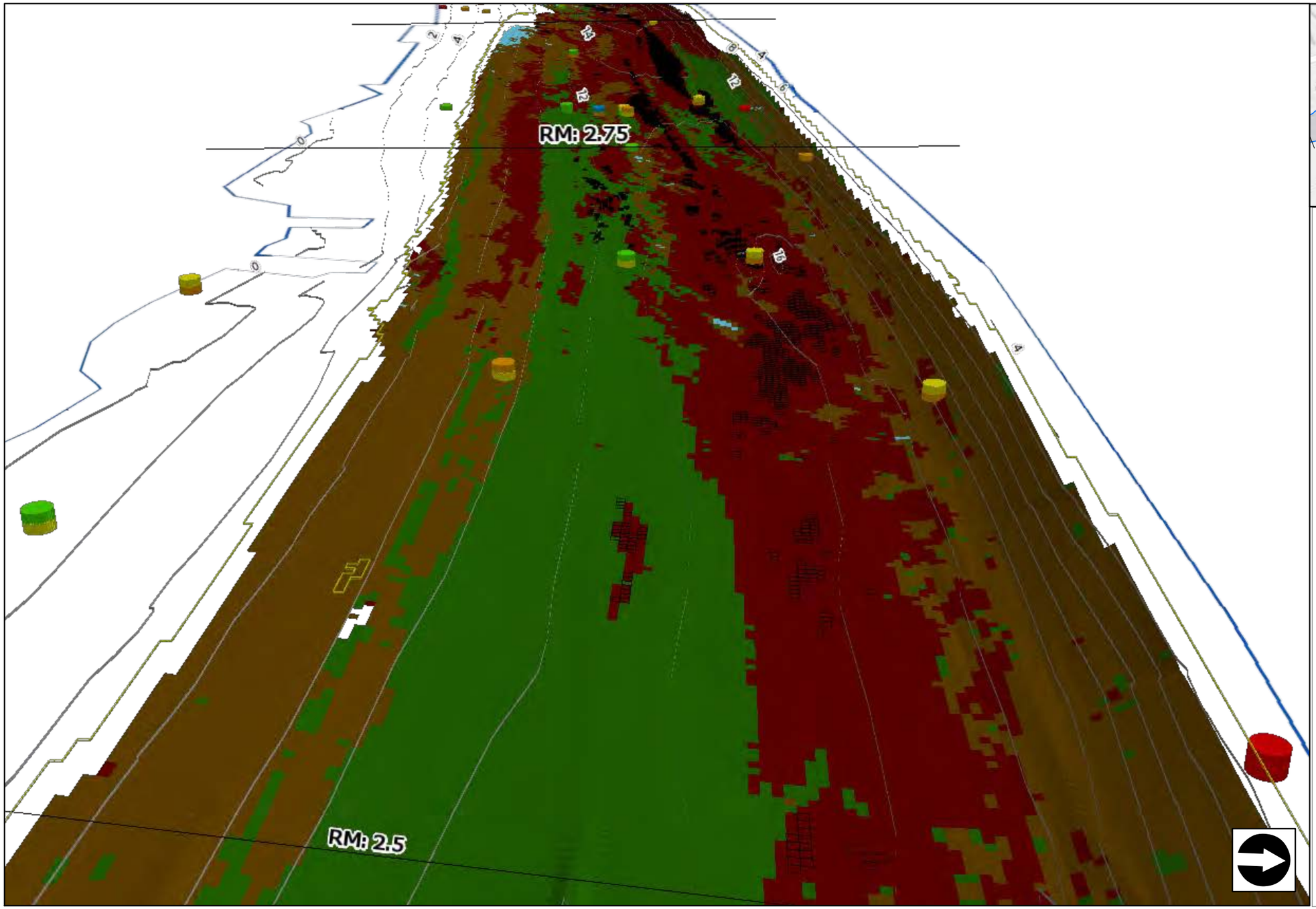
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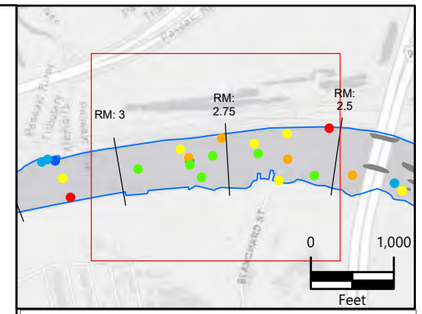
Figure 2-7e

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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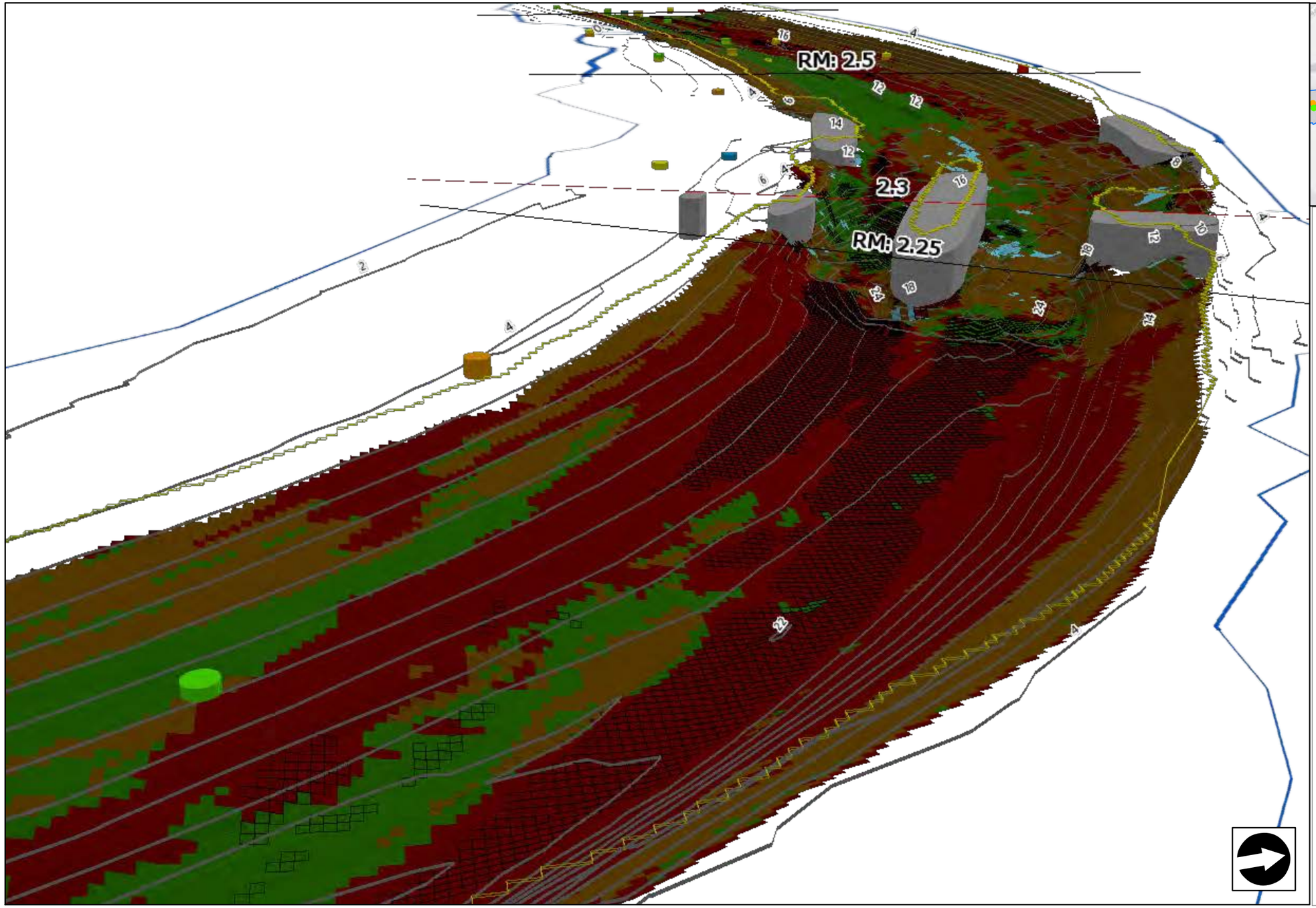
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Figure 2-7f

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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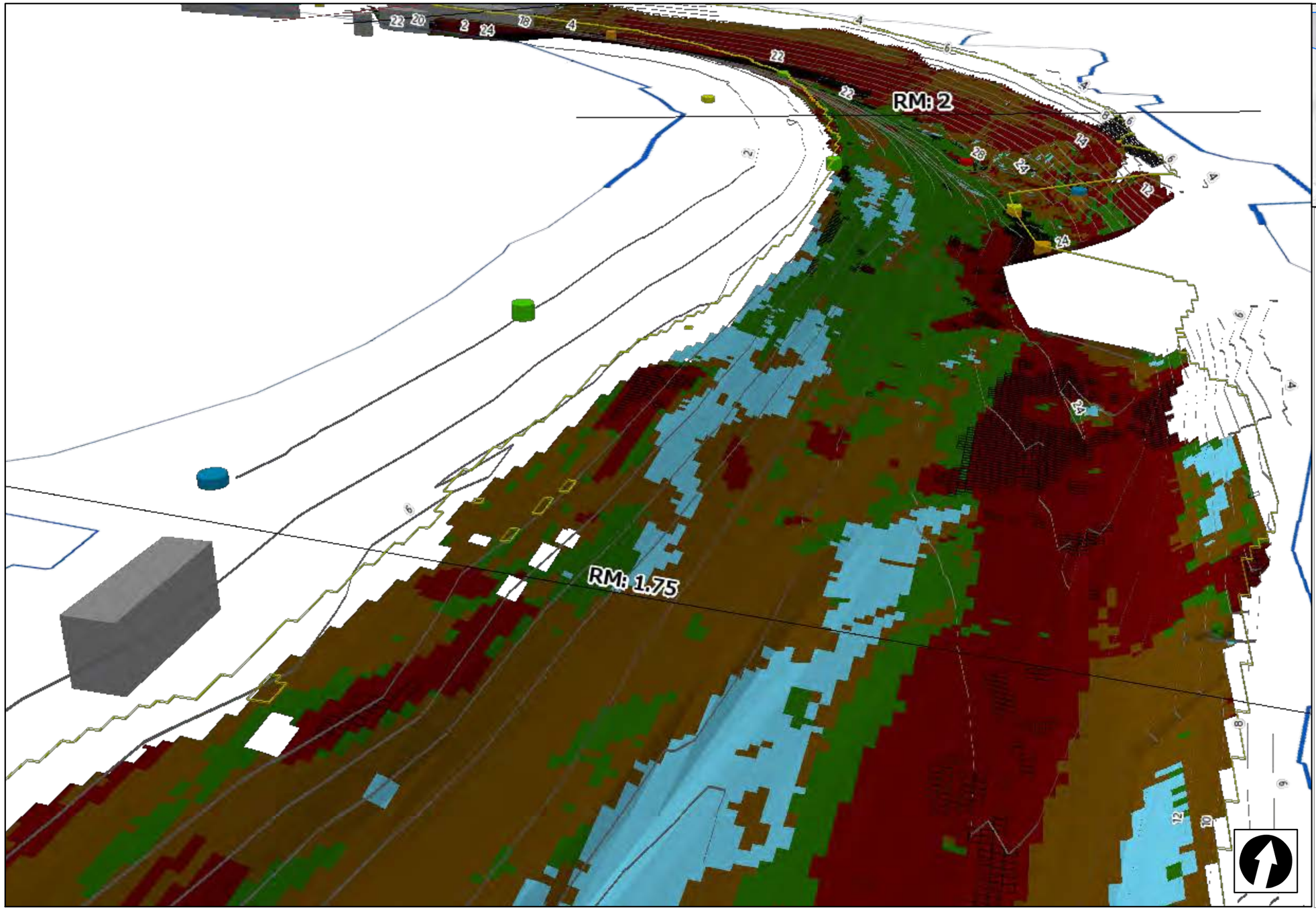
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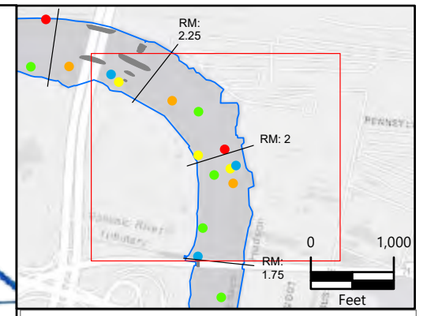
Figure 2-7g

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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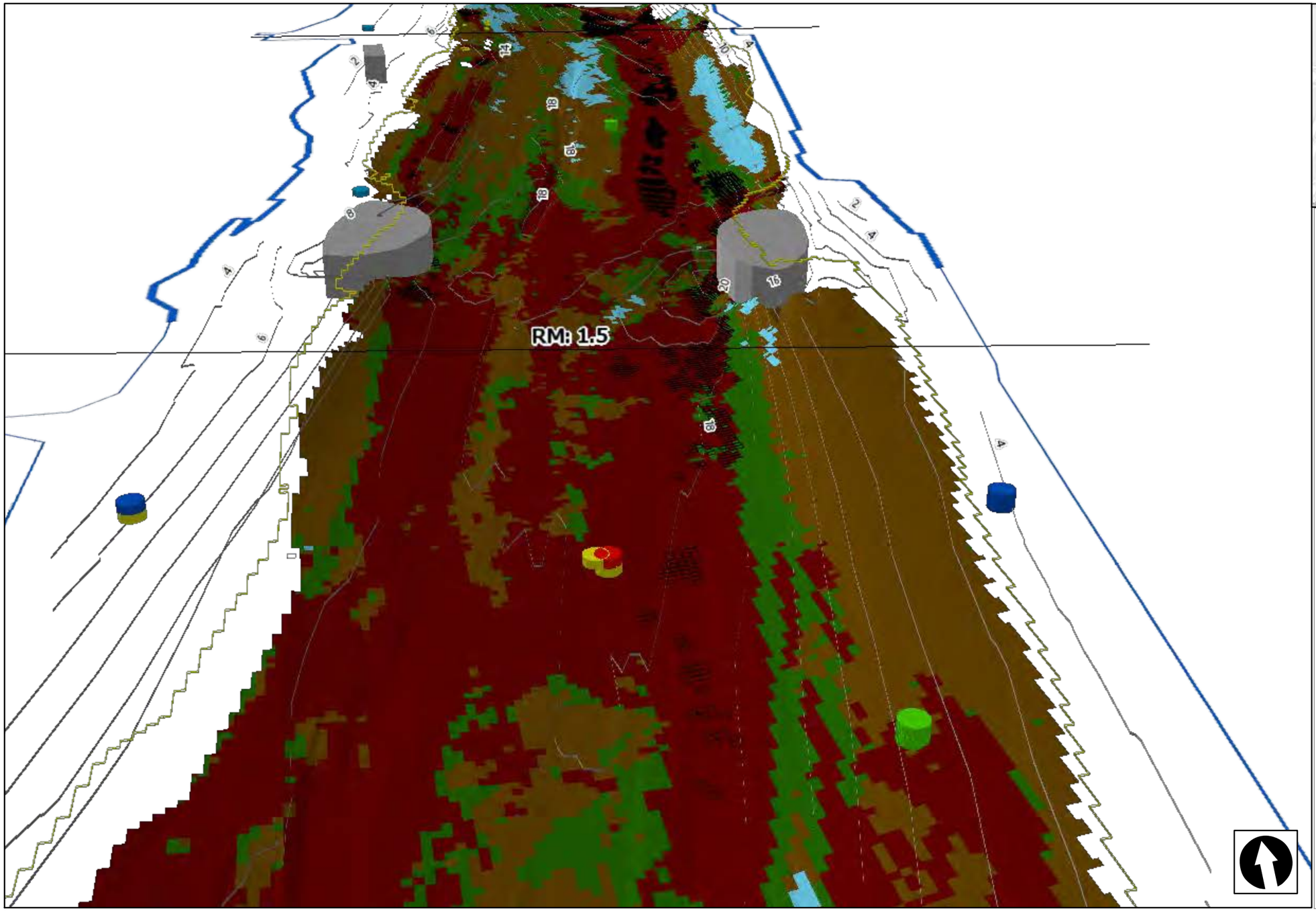
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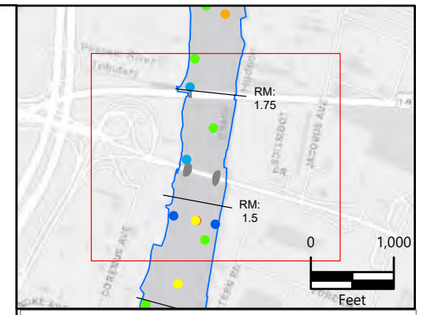
Figure 2-8a

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
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- Depositional from 2007 to 2012
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NOTES:
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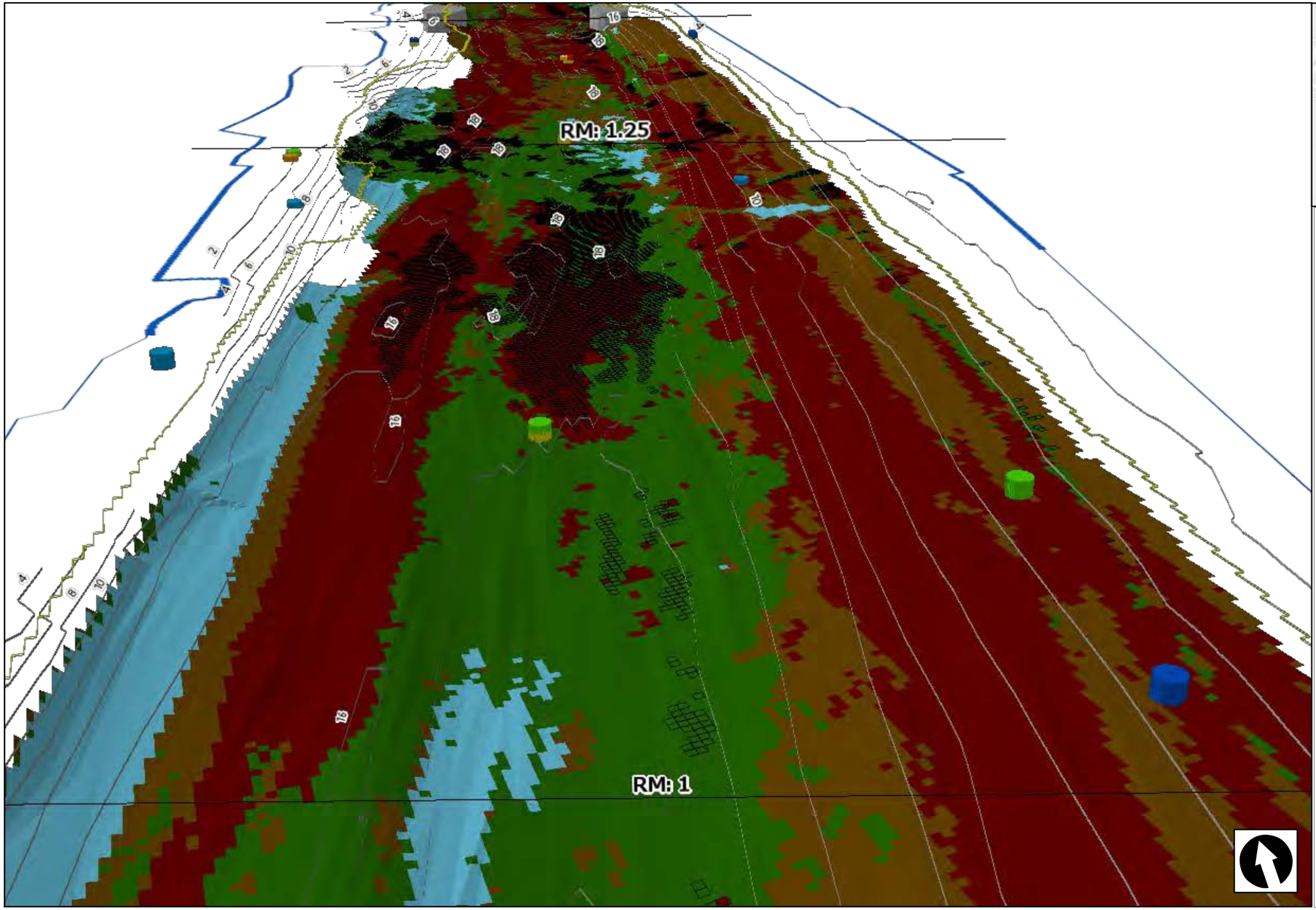
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Figure 2-8b

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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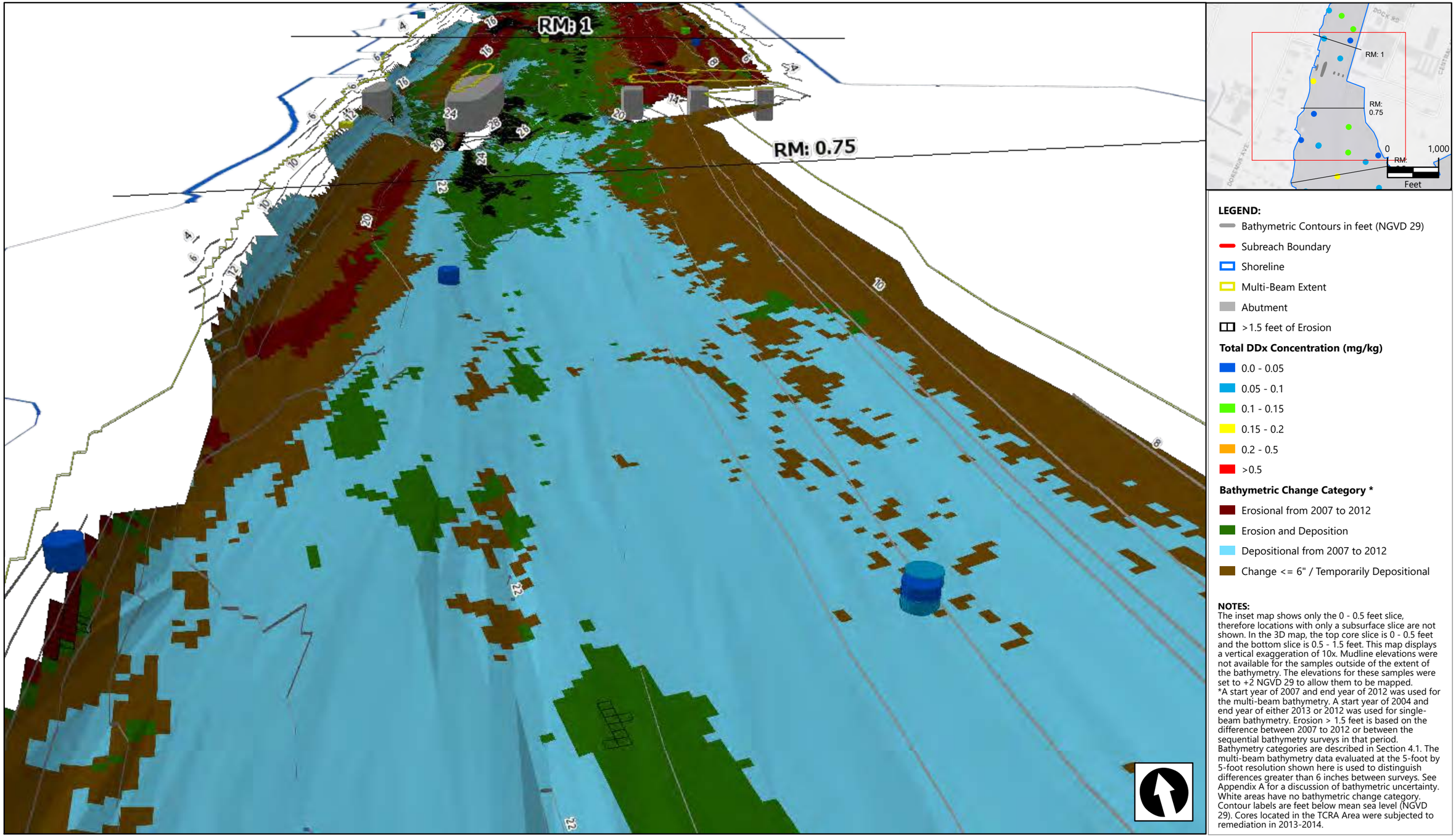
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Figure 2-8c

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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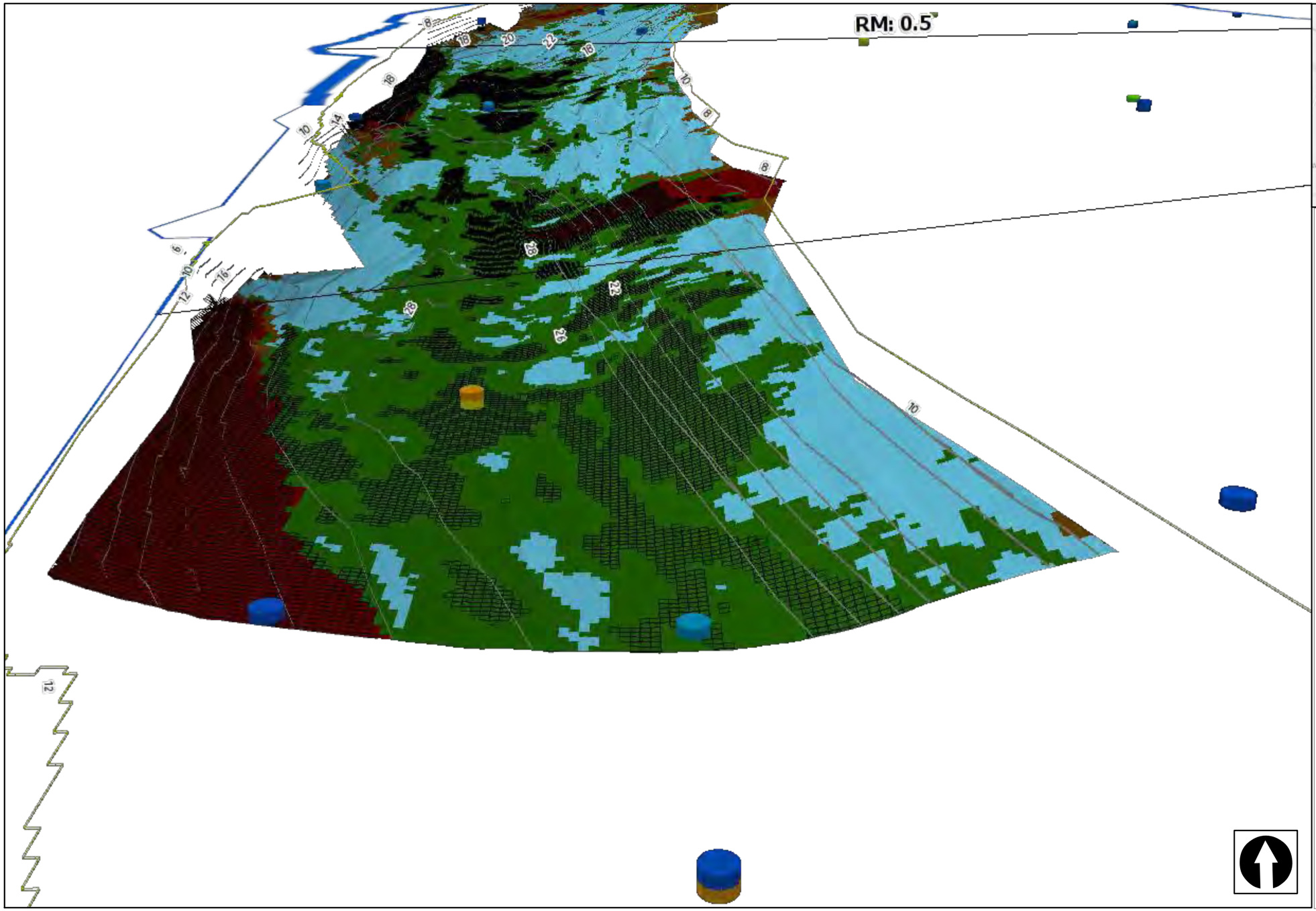
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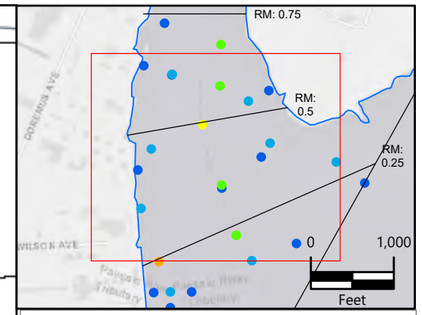
Figure 2-8d

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Total DDx Concentration (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.5
- >0.5

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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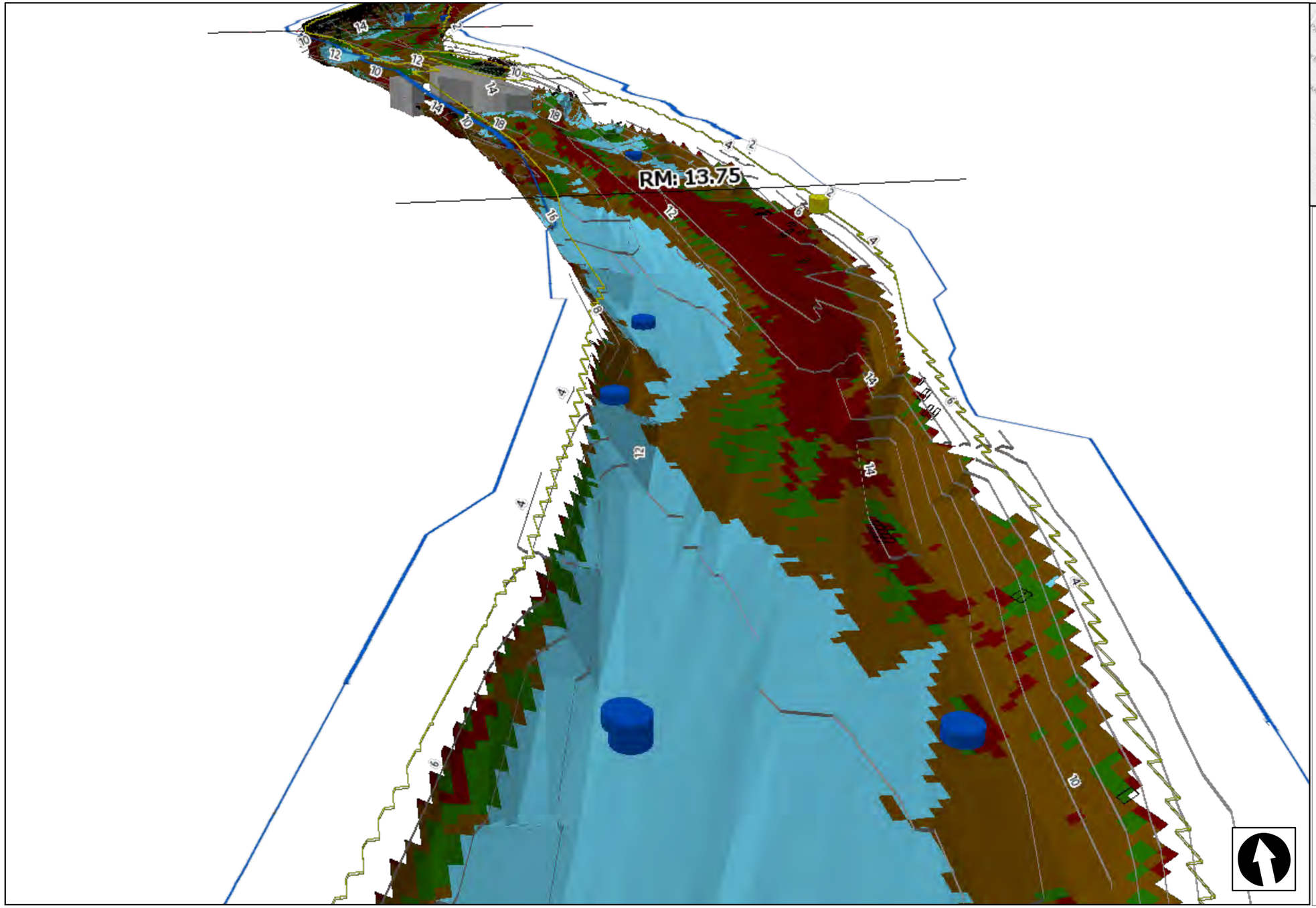
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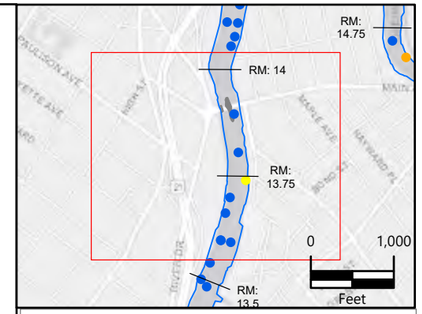
Figure 2-8e

Total DDx Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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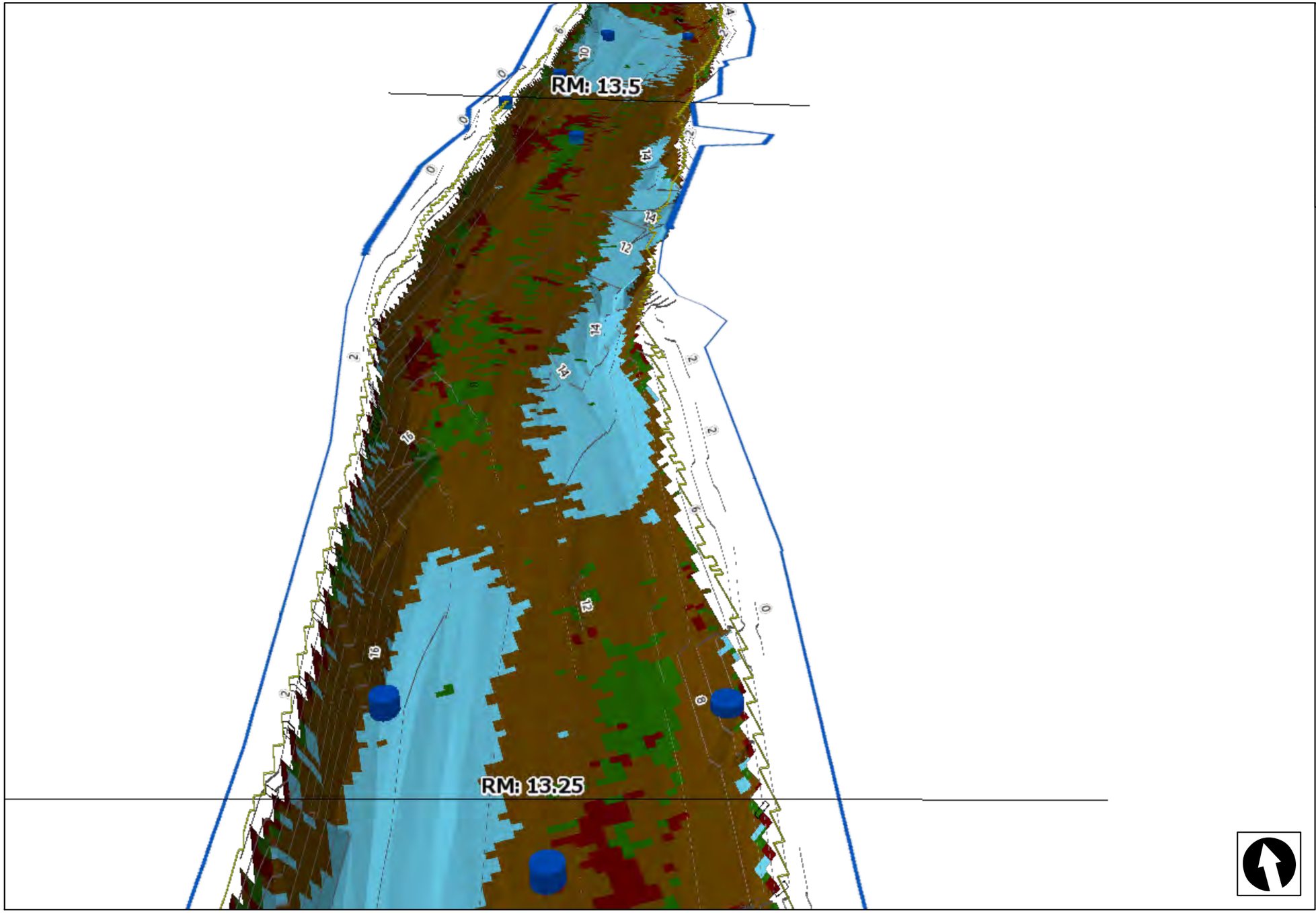
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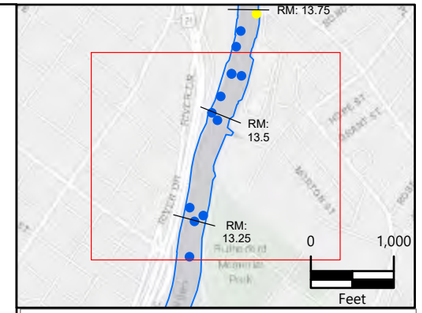
Figure 3-1a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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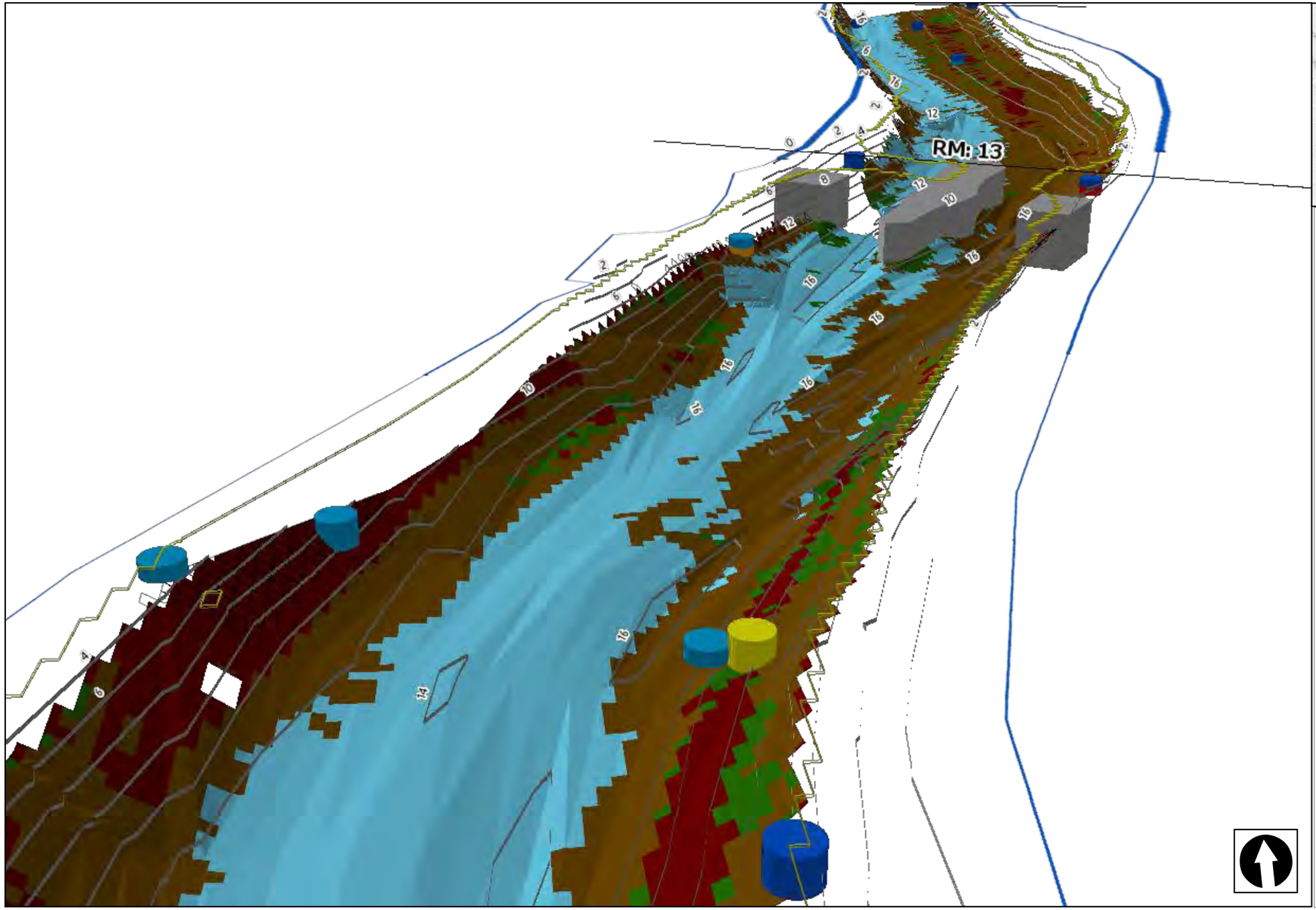
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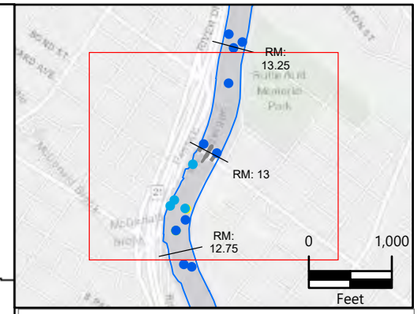
Figure 3-1b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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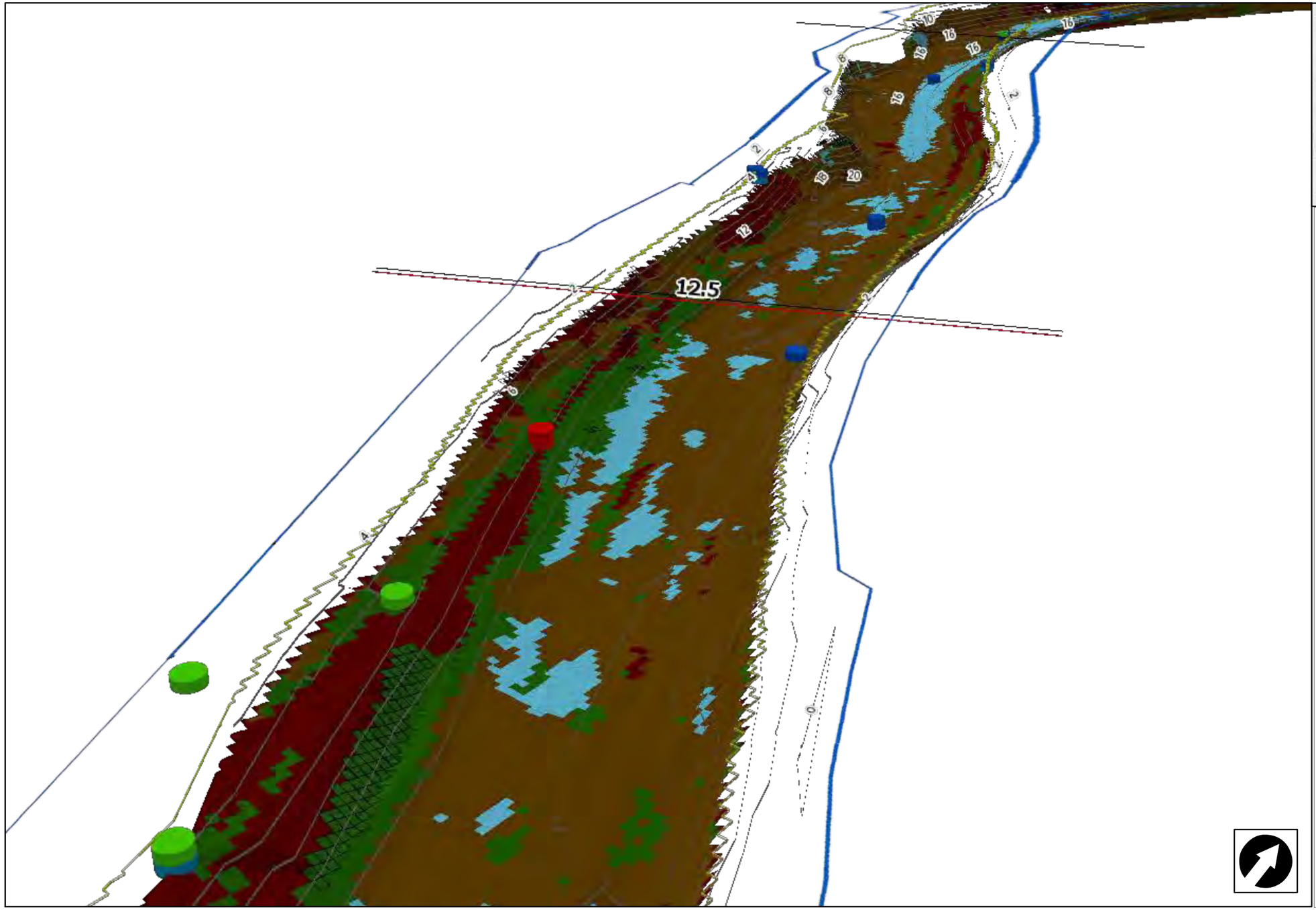
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Figure 3-1c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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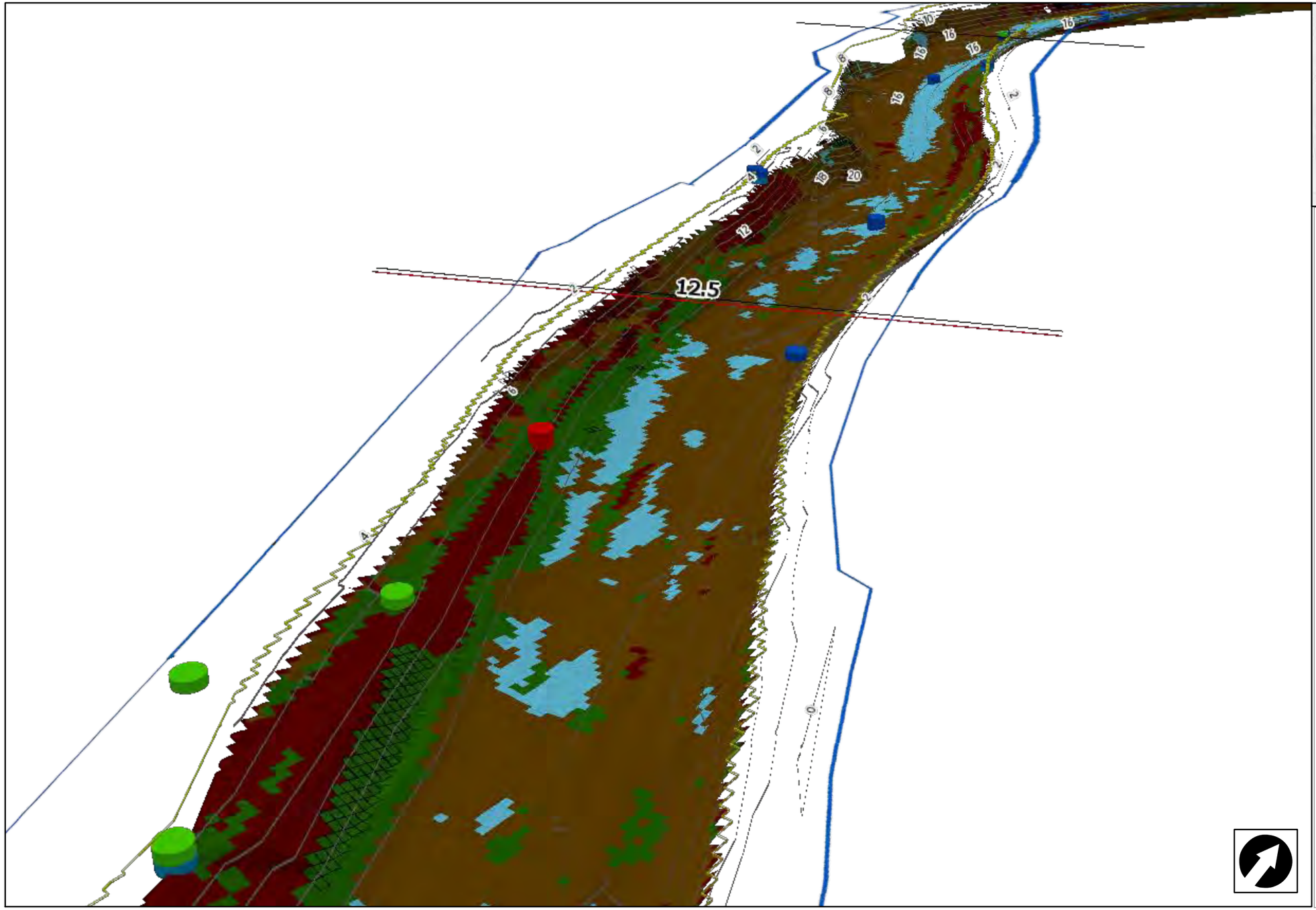
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Figure 3-1d

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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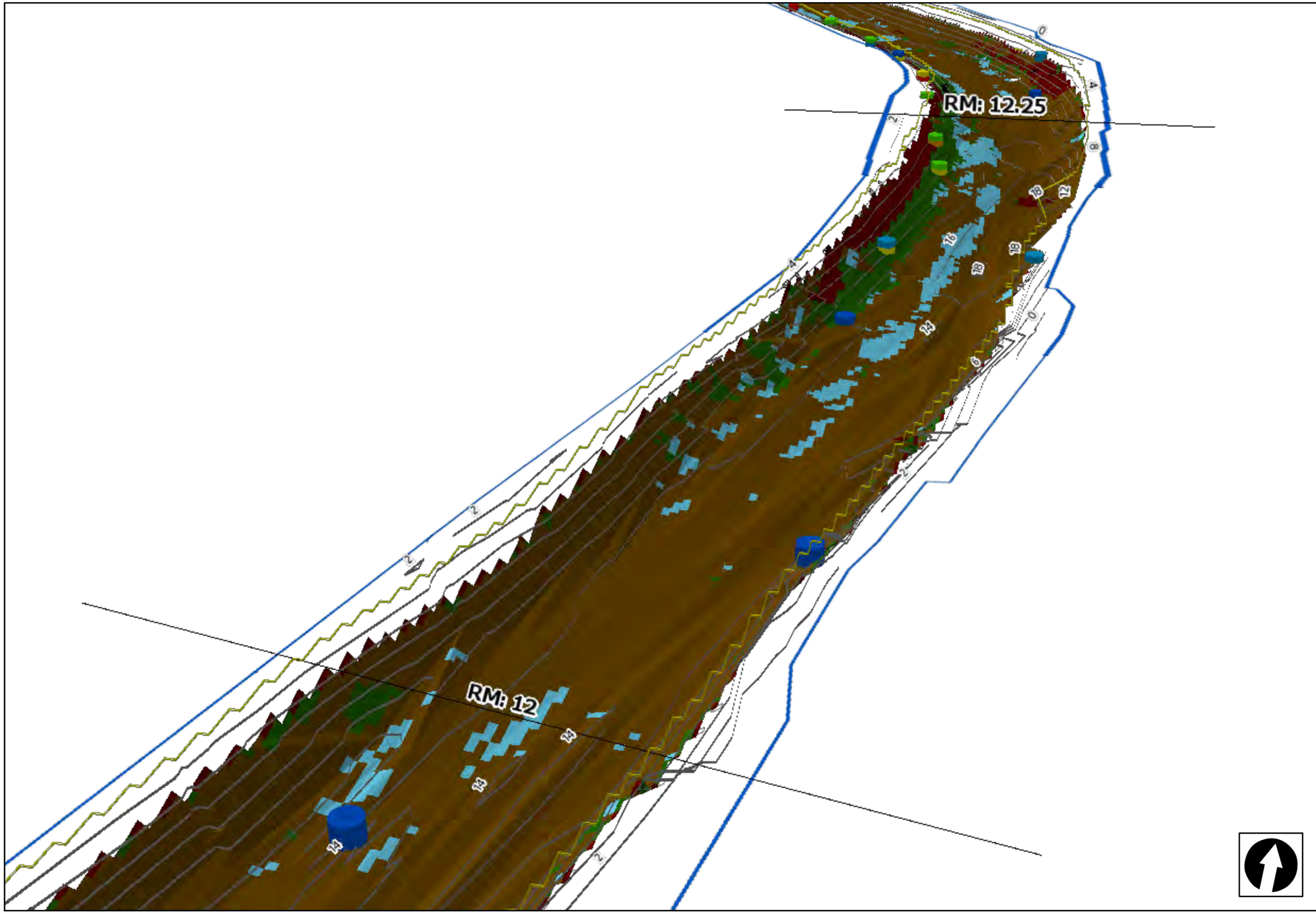
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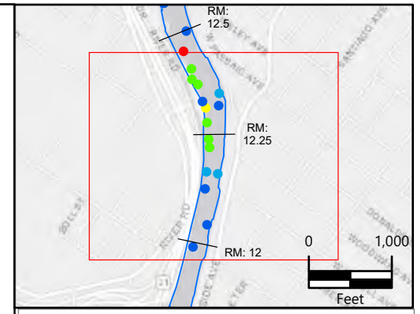
Figure 3-2a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
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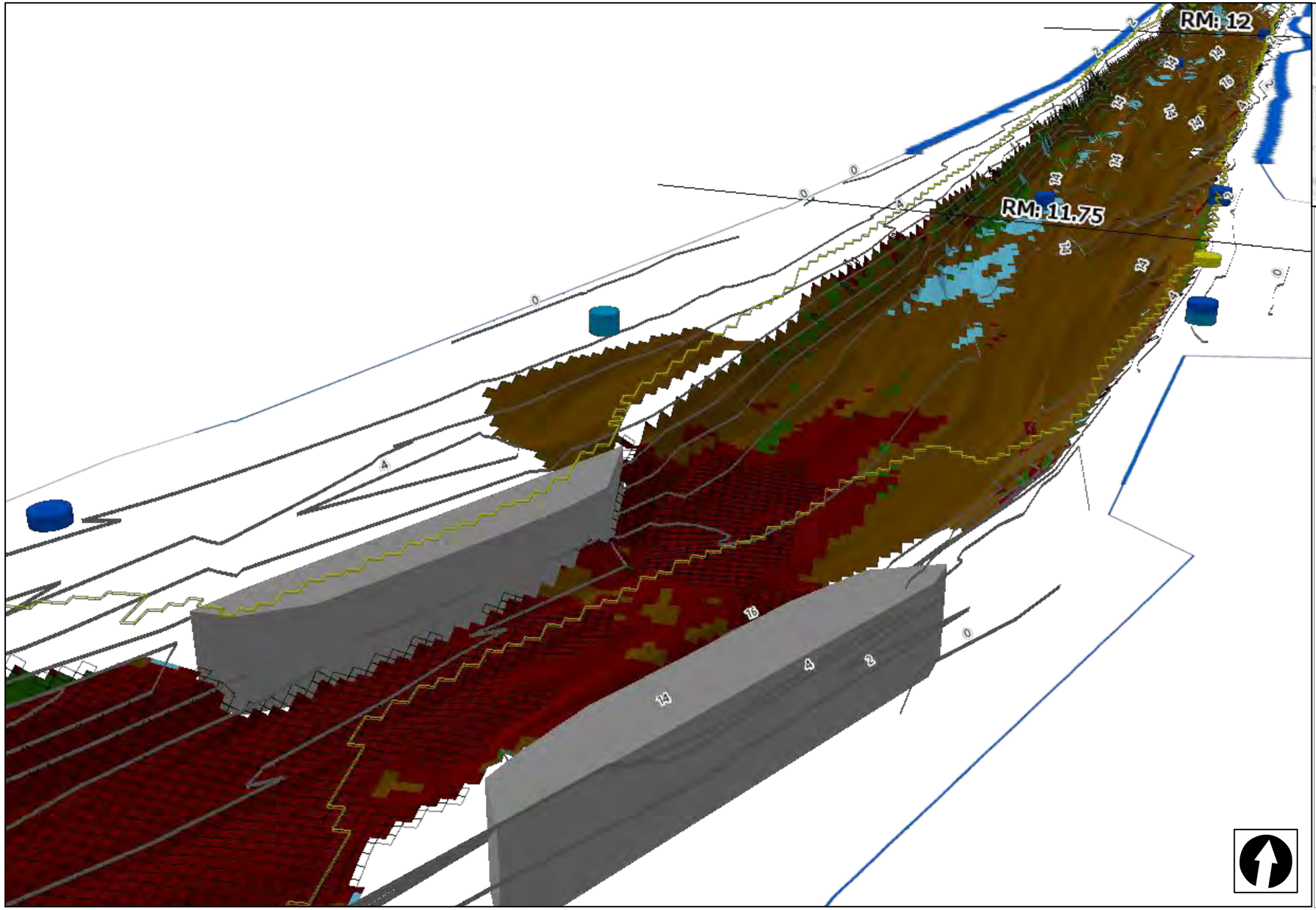
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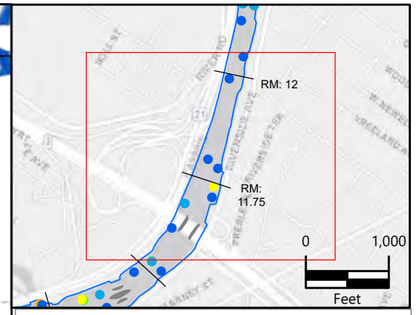
Figure 3-2b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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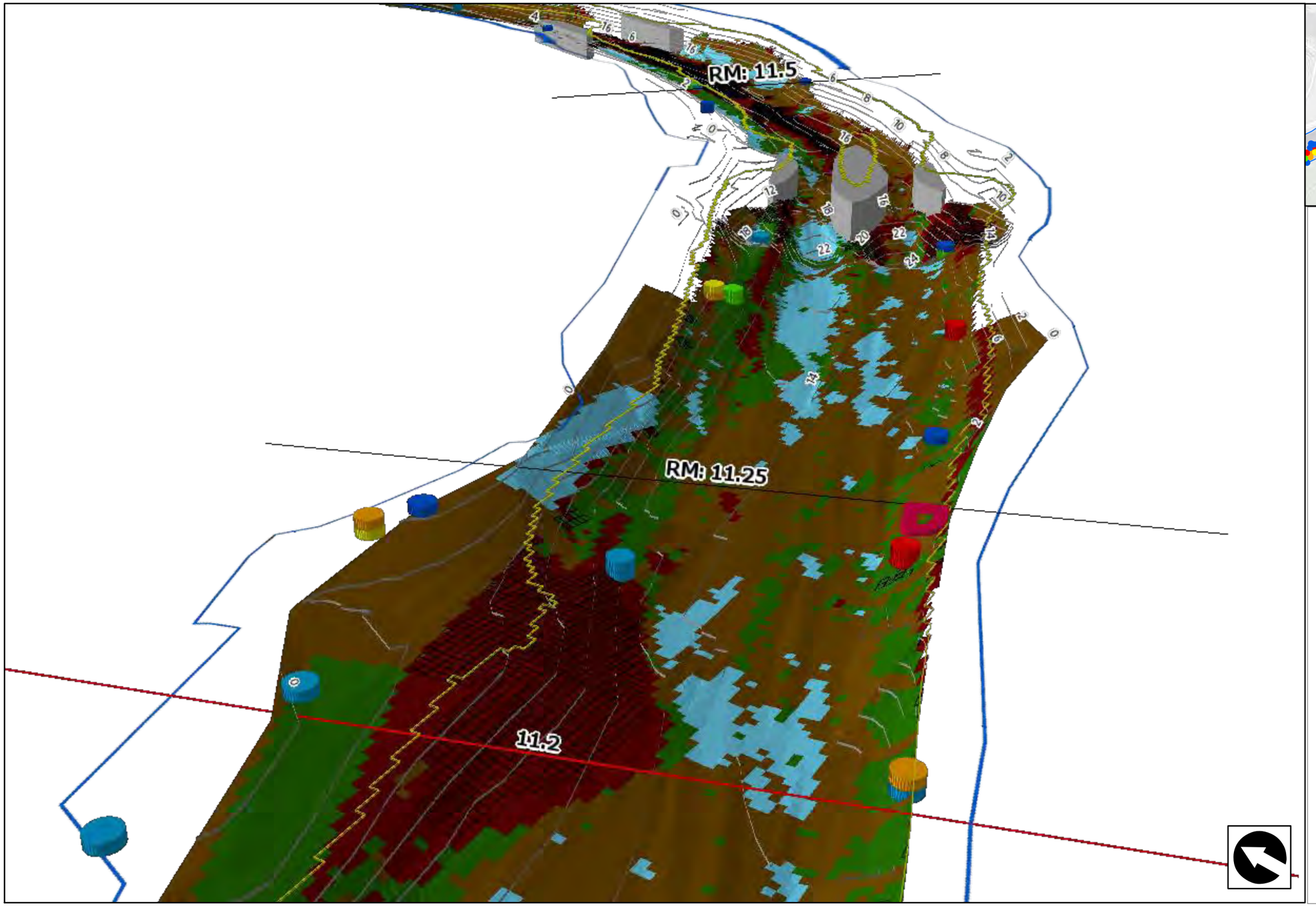
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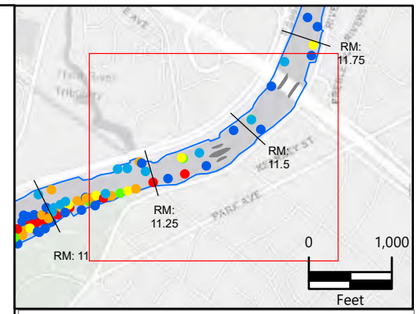
Figure 3-2c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

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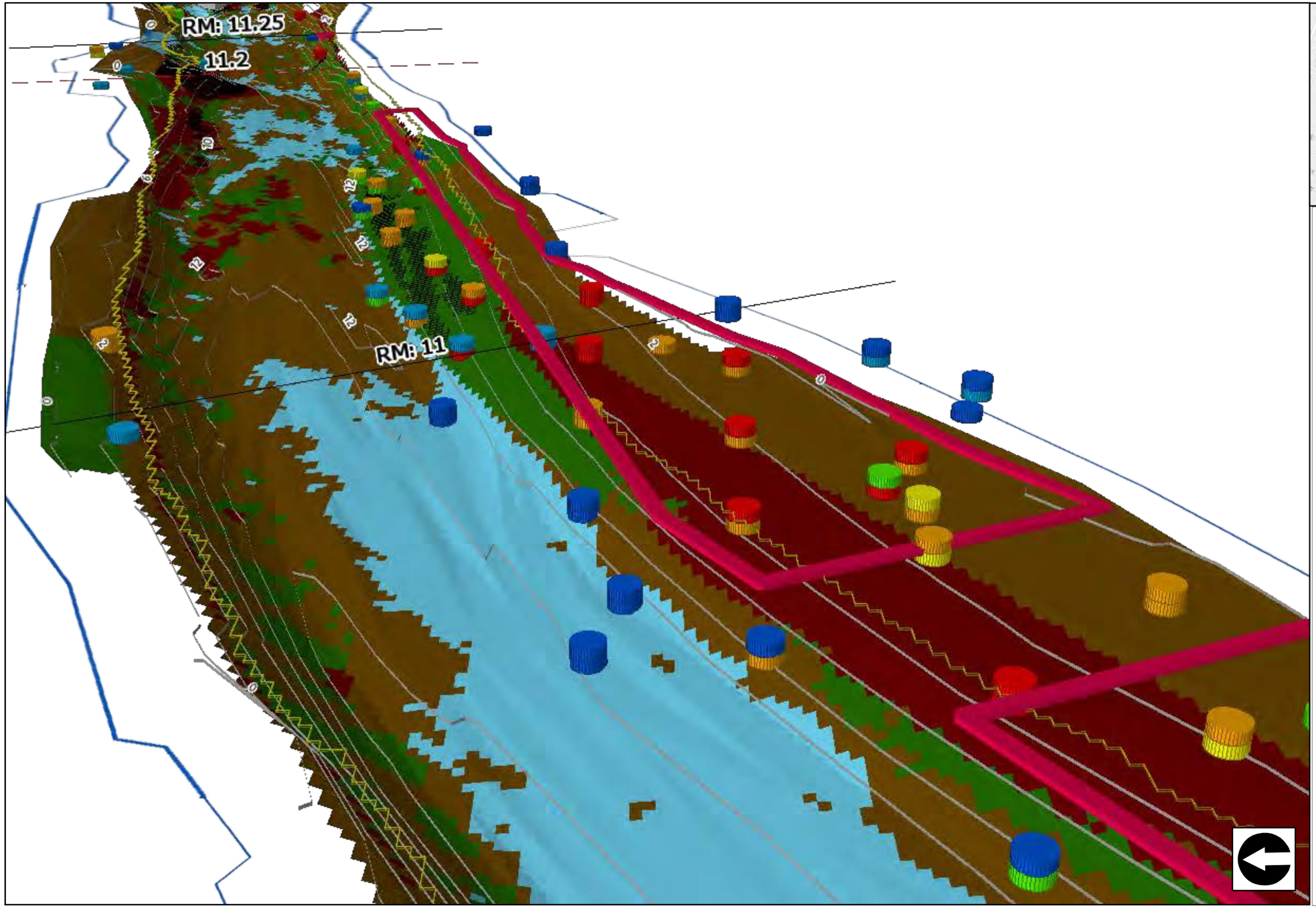
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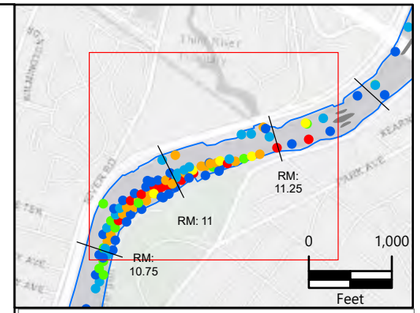
Figure 3-2d

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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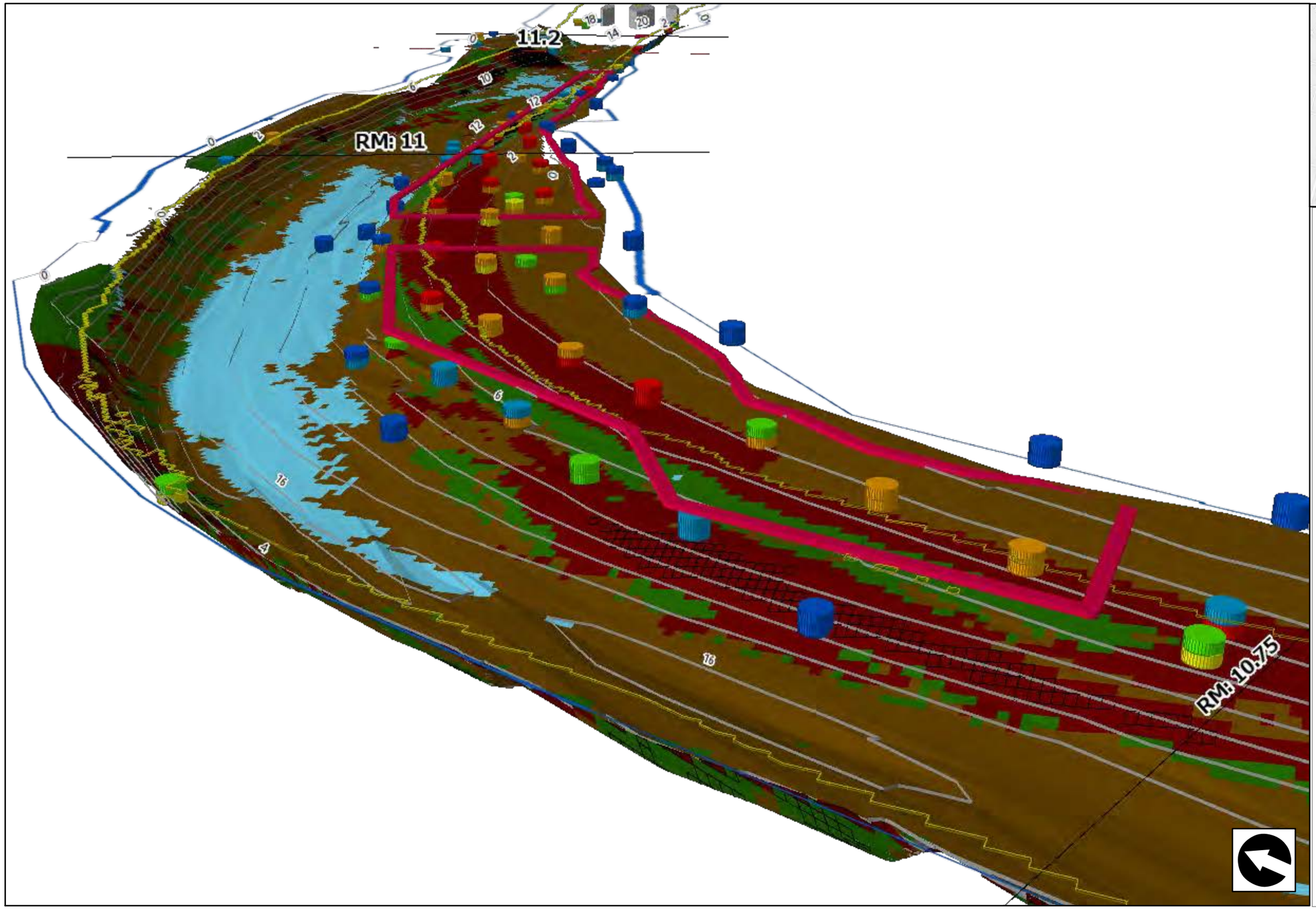
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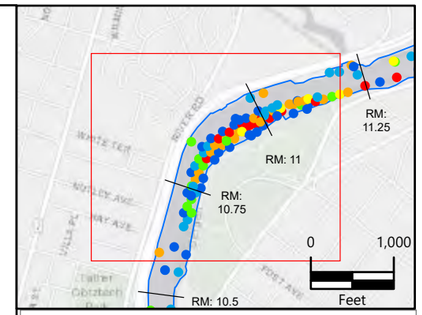
Figure 3-3a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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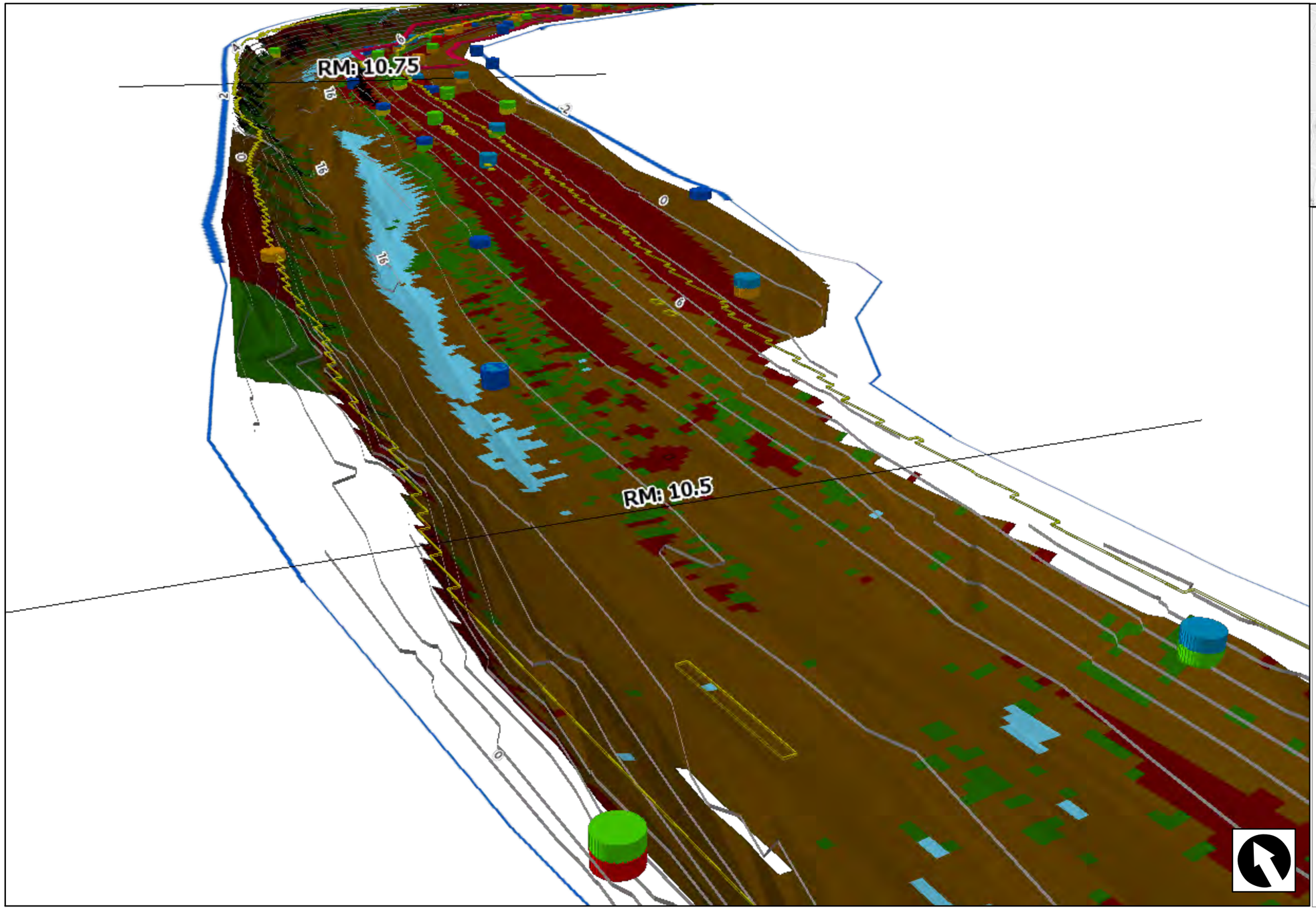
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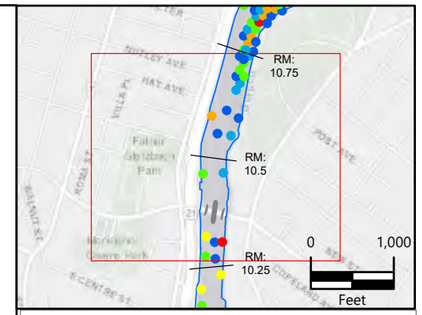
Figure 3-3b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
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- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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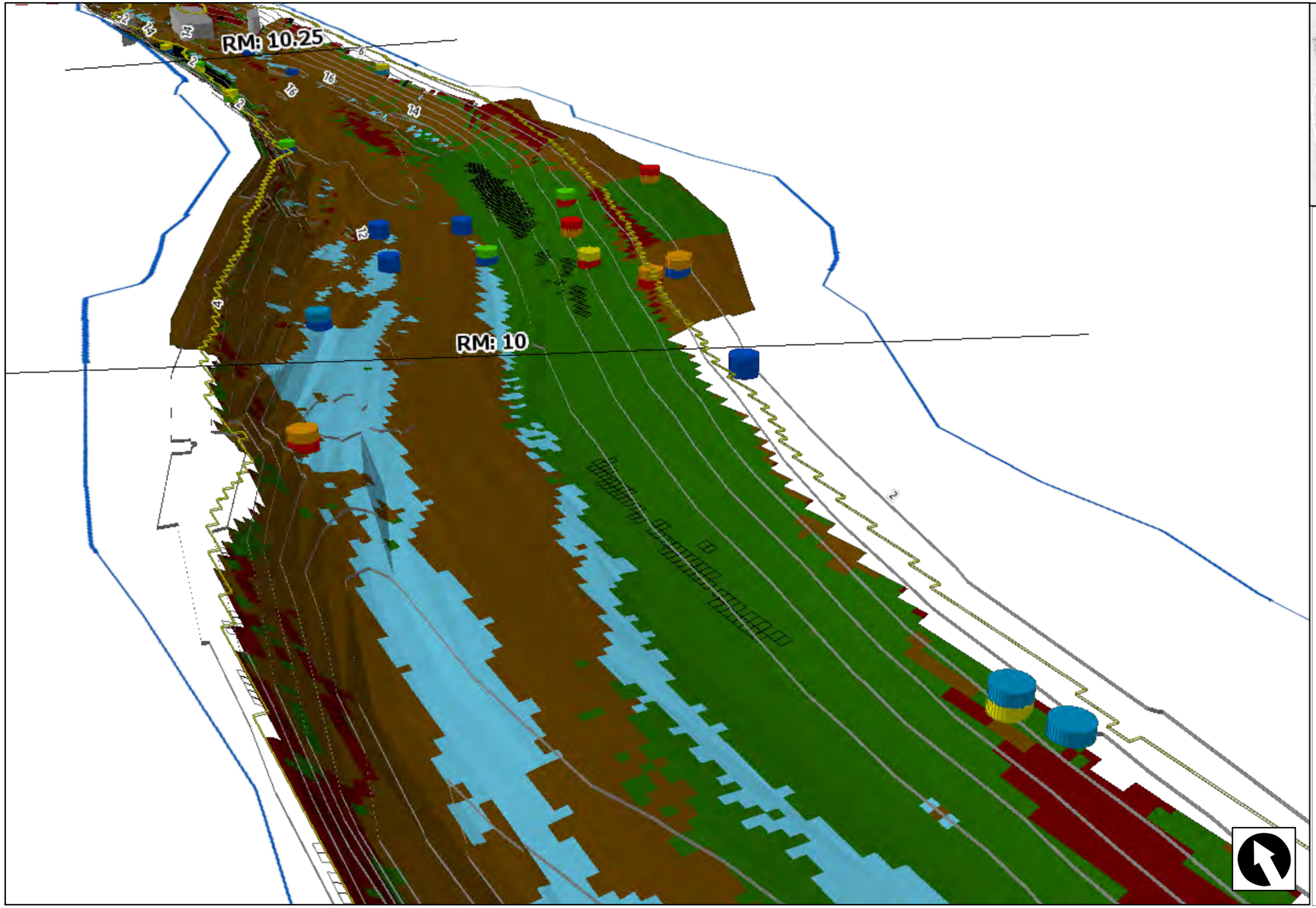
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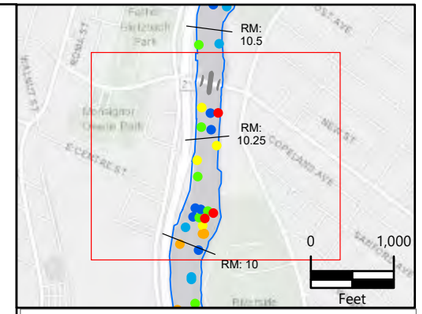
Figure 3-3c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
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NOTES:
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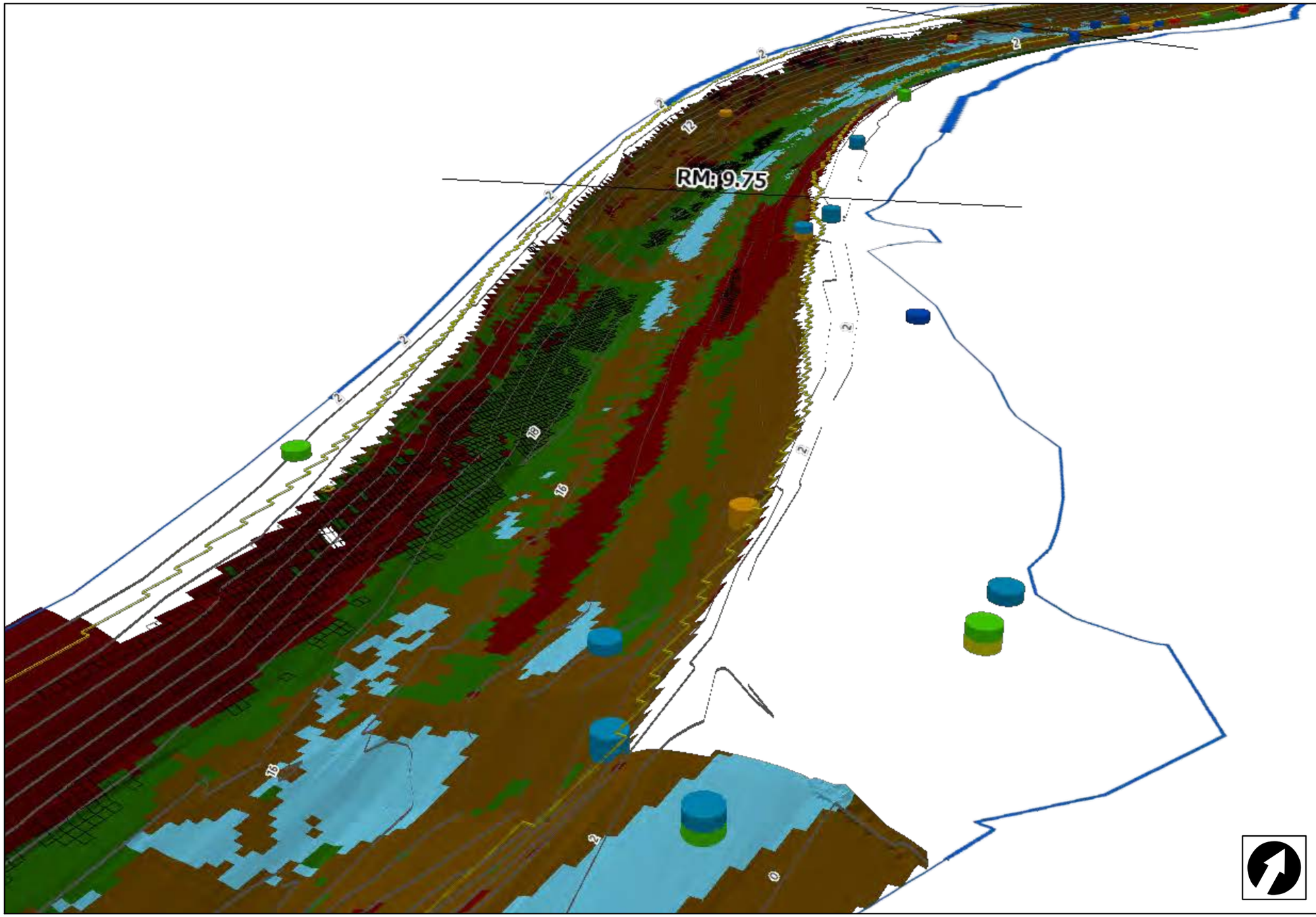
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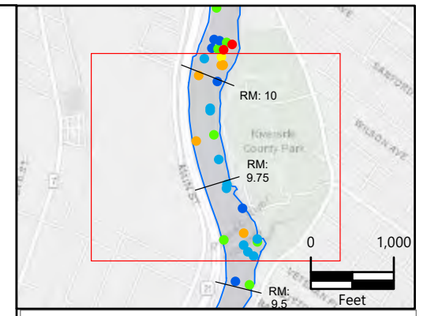
Figure 3-4a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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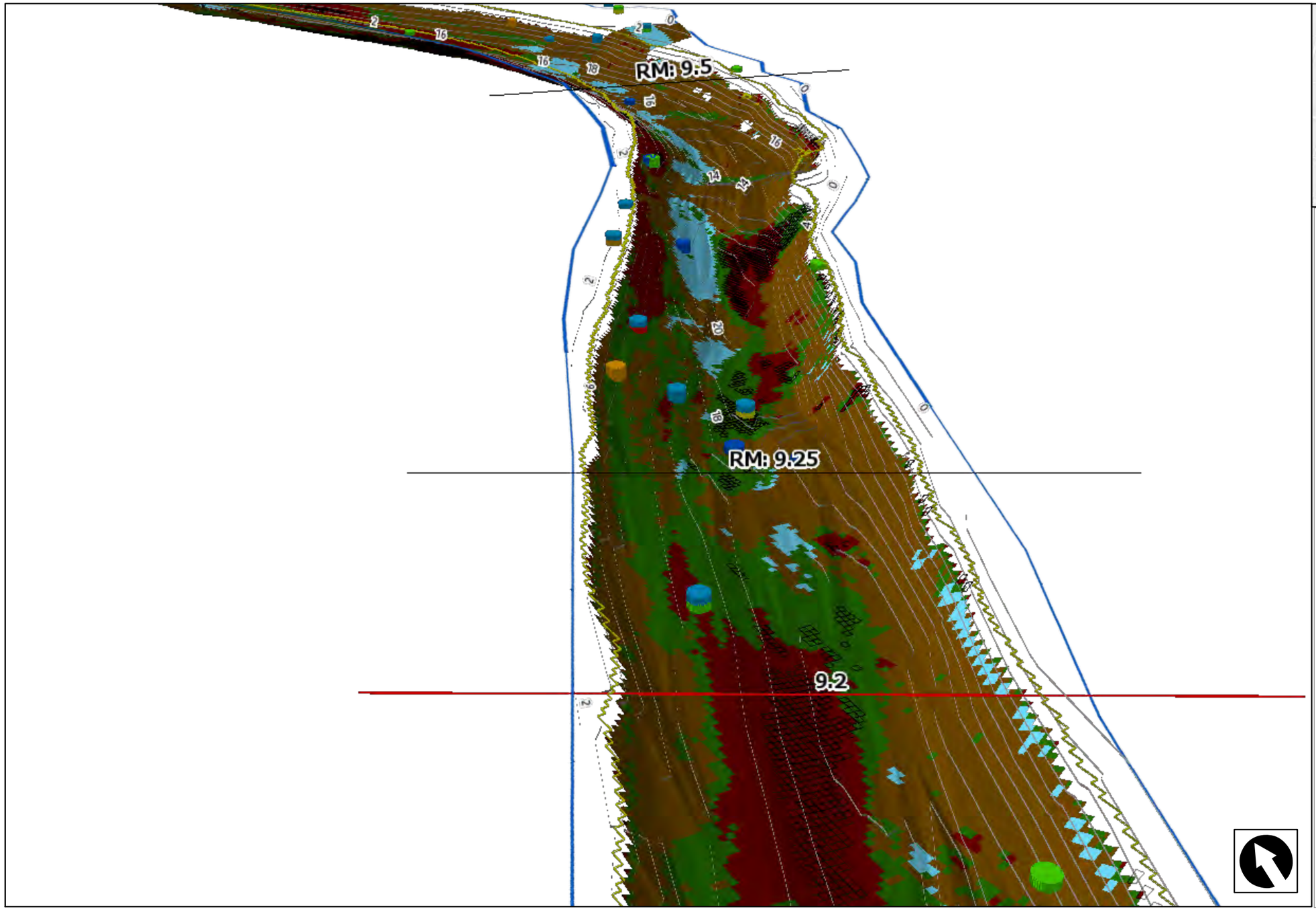
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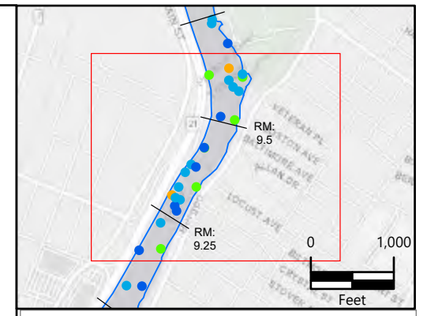
Figure 3-4b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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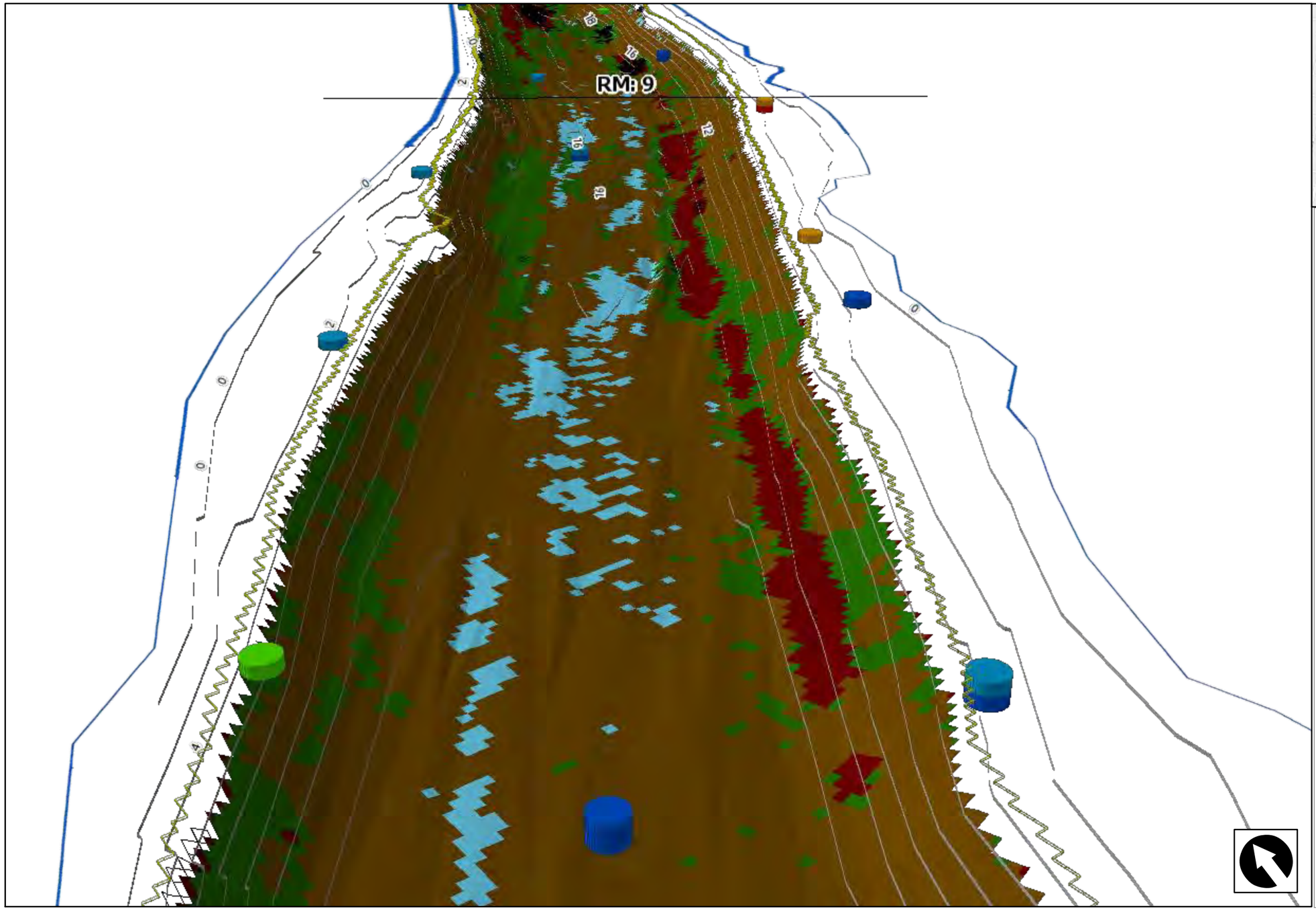
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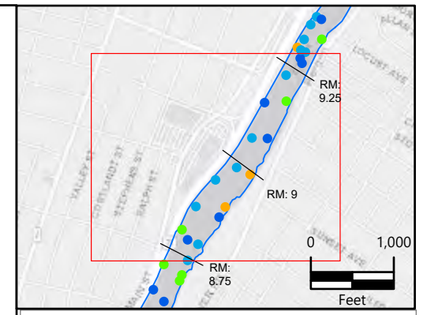
Figure 3-4c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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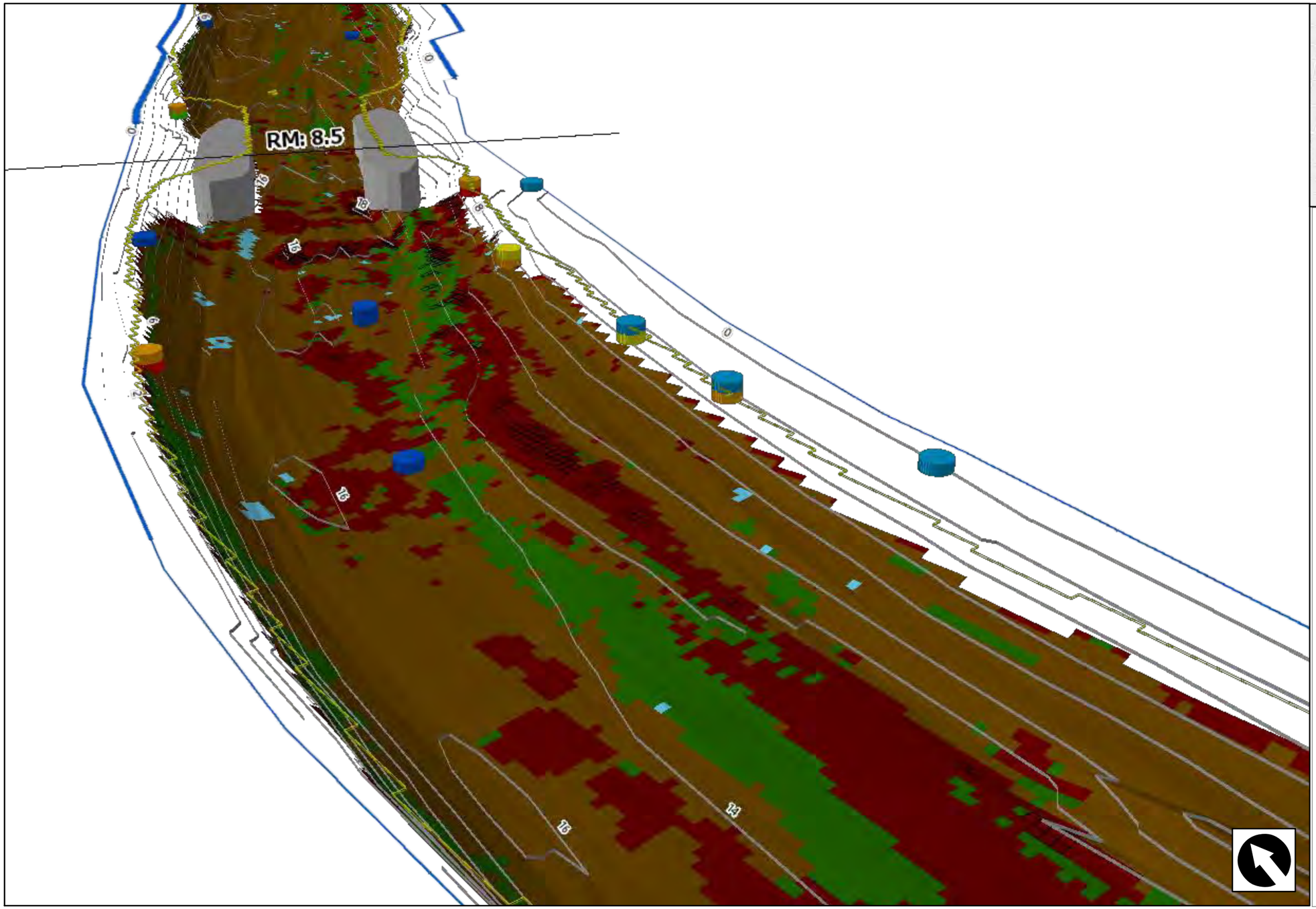
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Figure 3-5a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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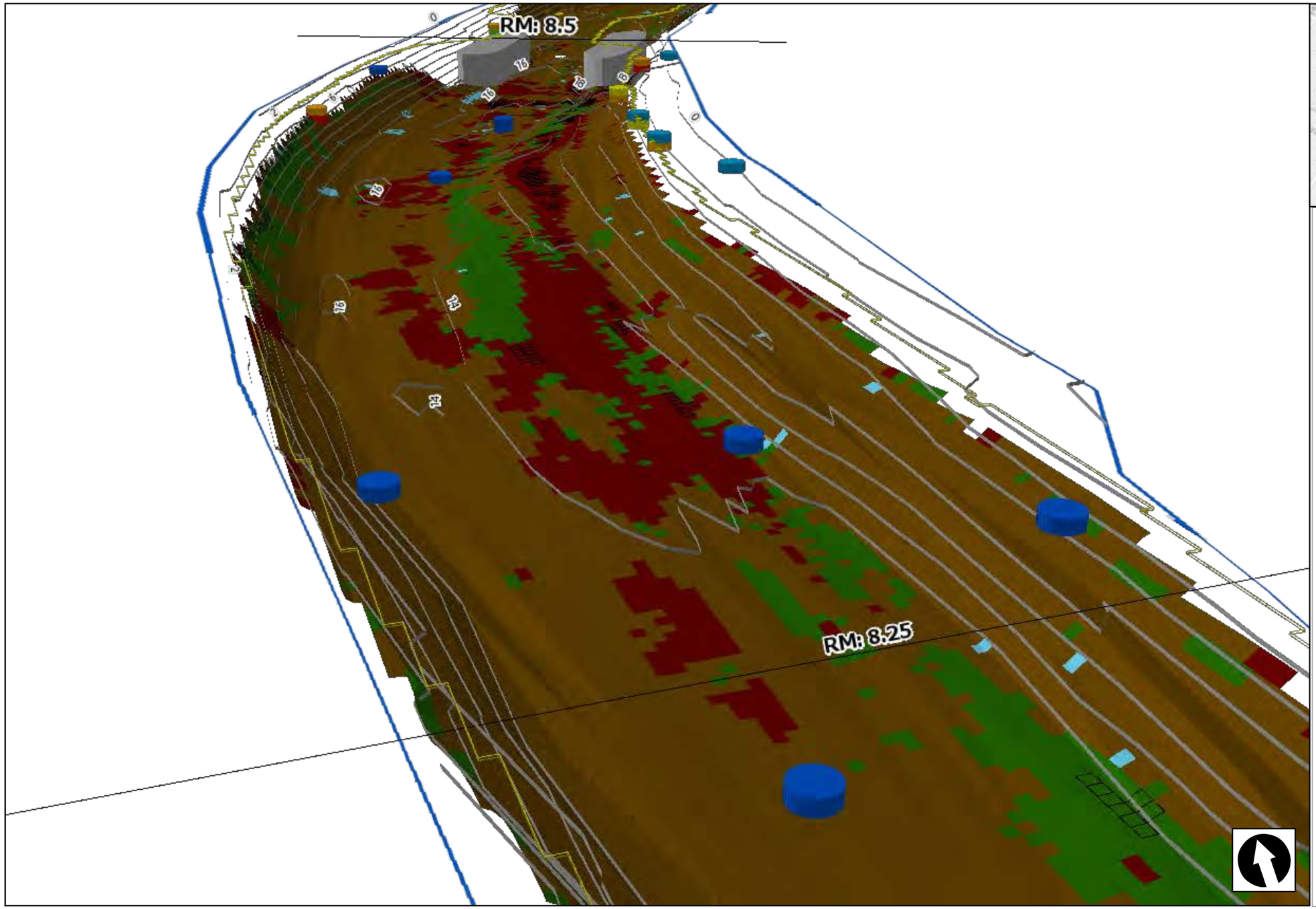
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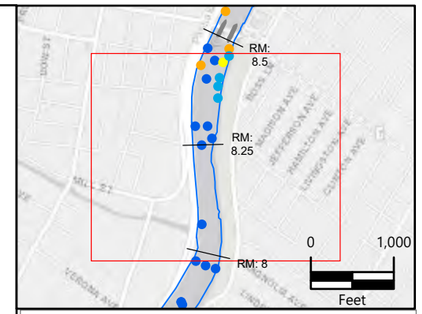
Figure 3-5b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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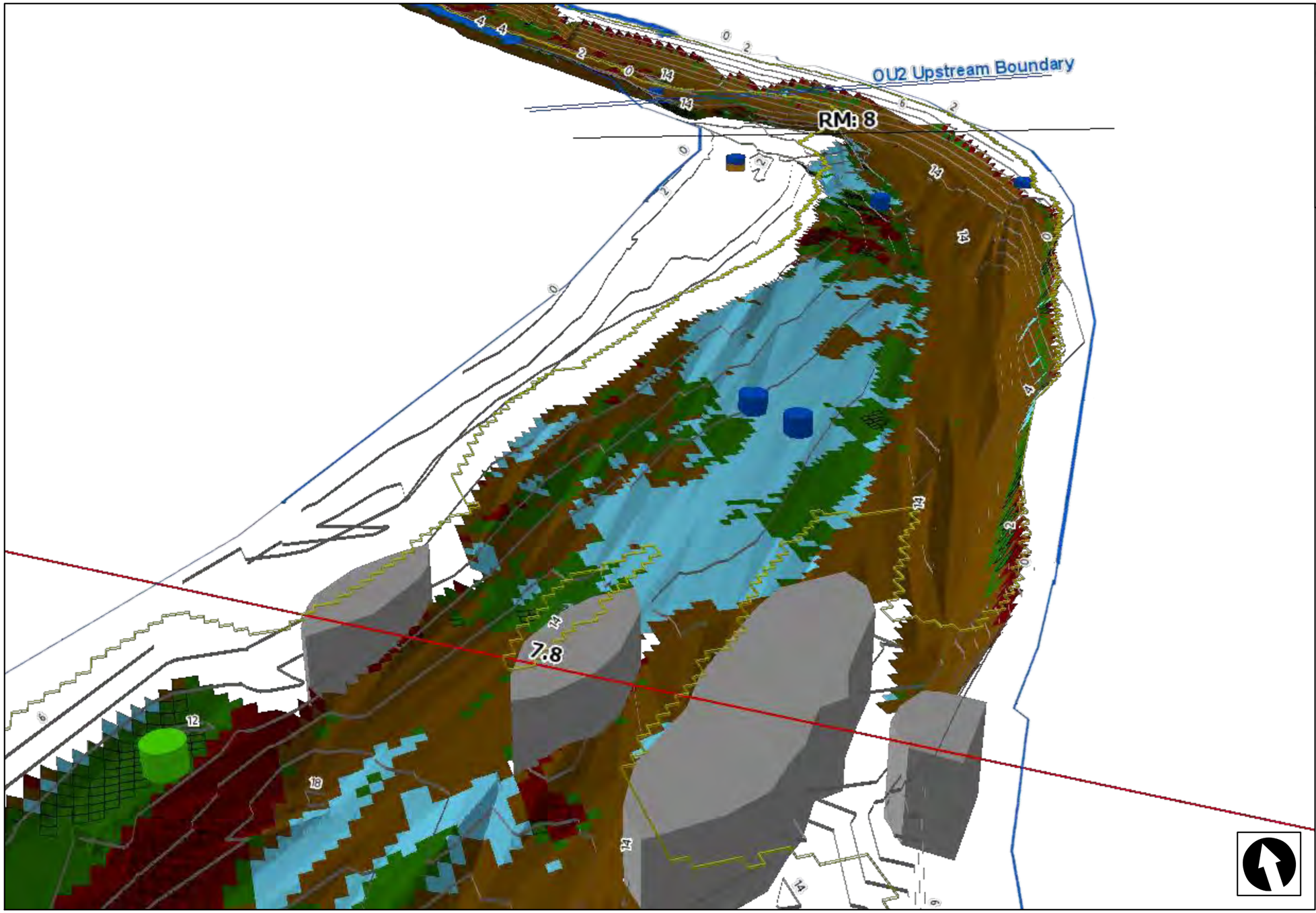
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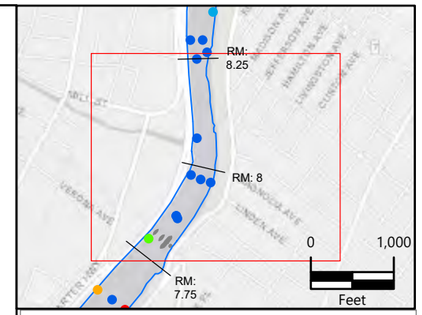
Figure 3-5c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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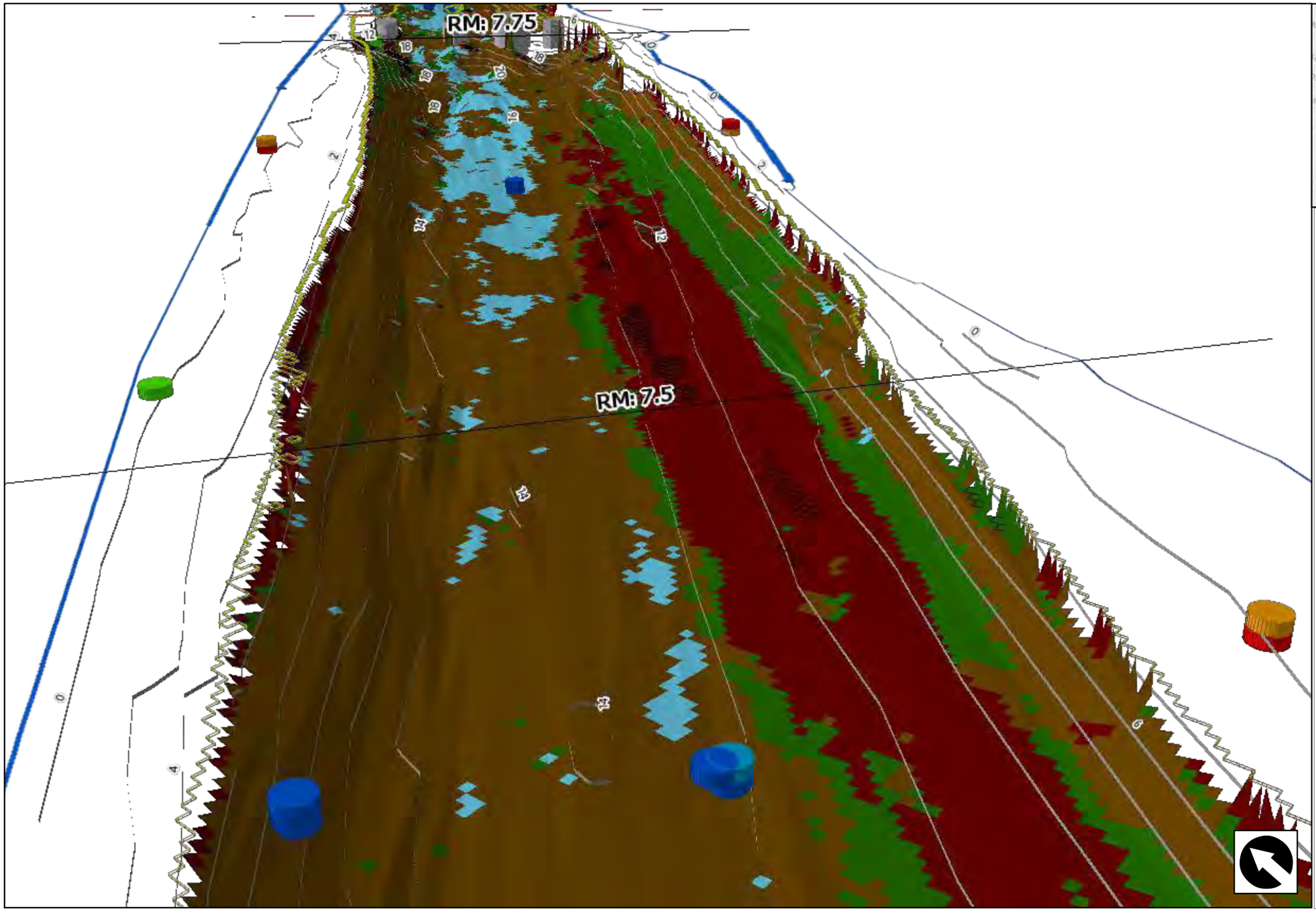
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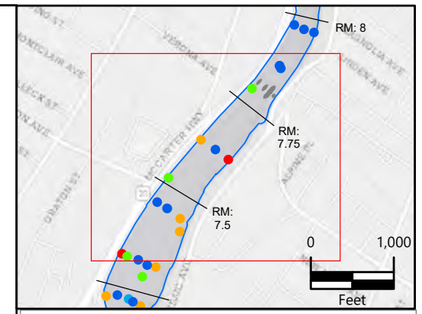
Figure 3-5d

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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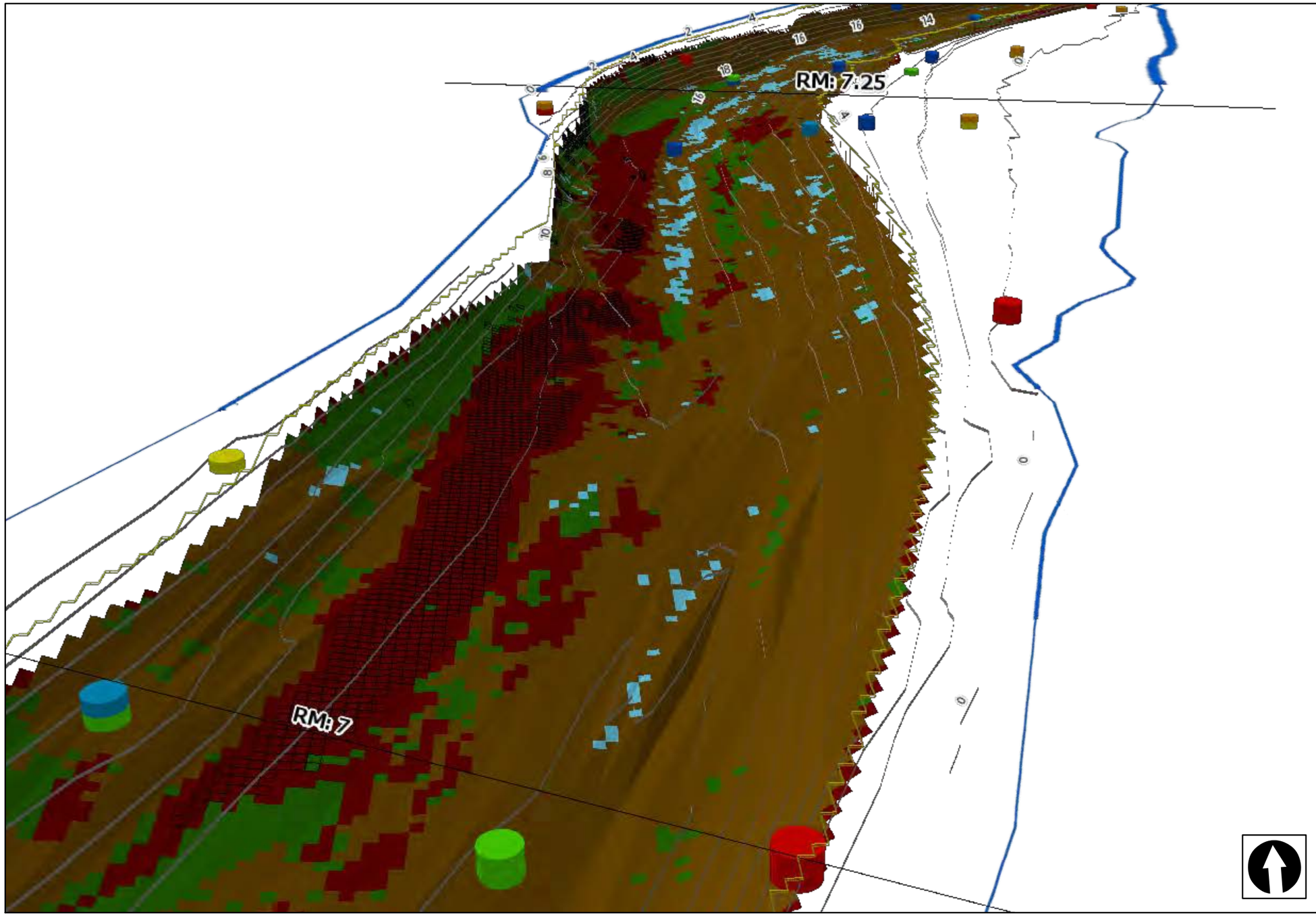
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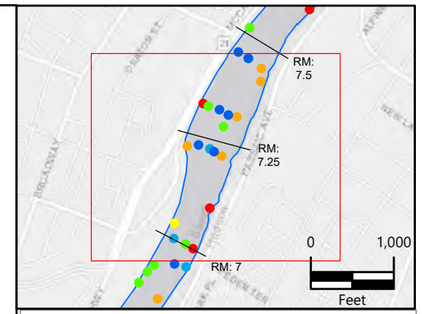
Figure 3-6a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
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NOTES:
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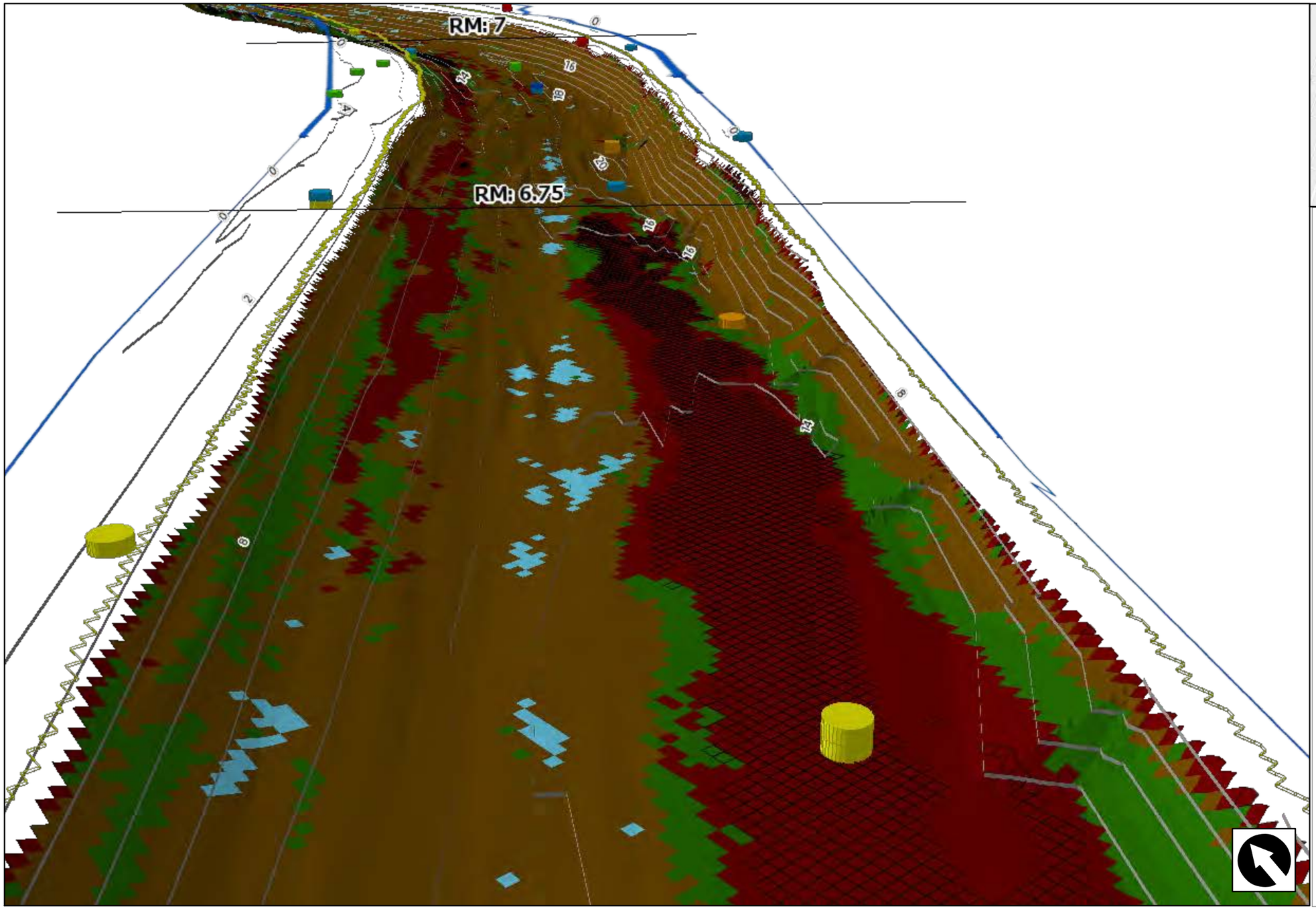
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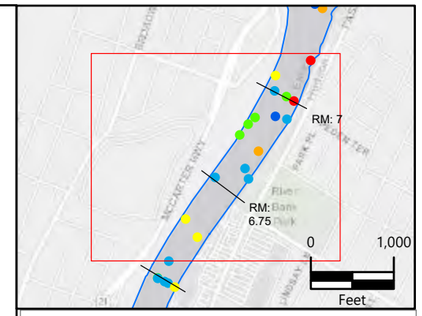
Figure 3-6b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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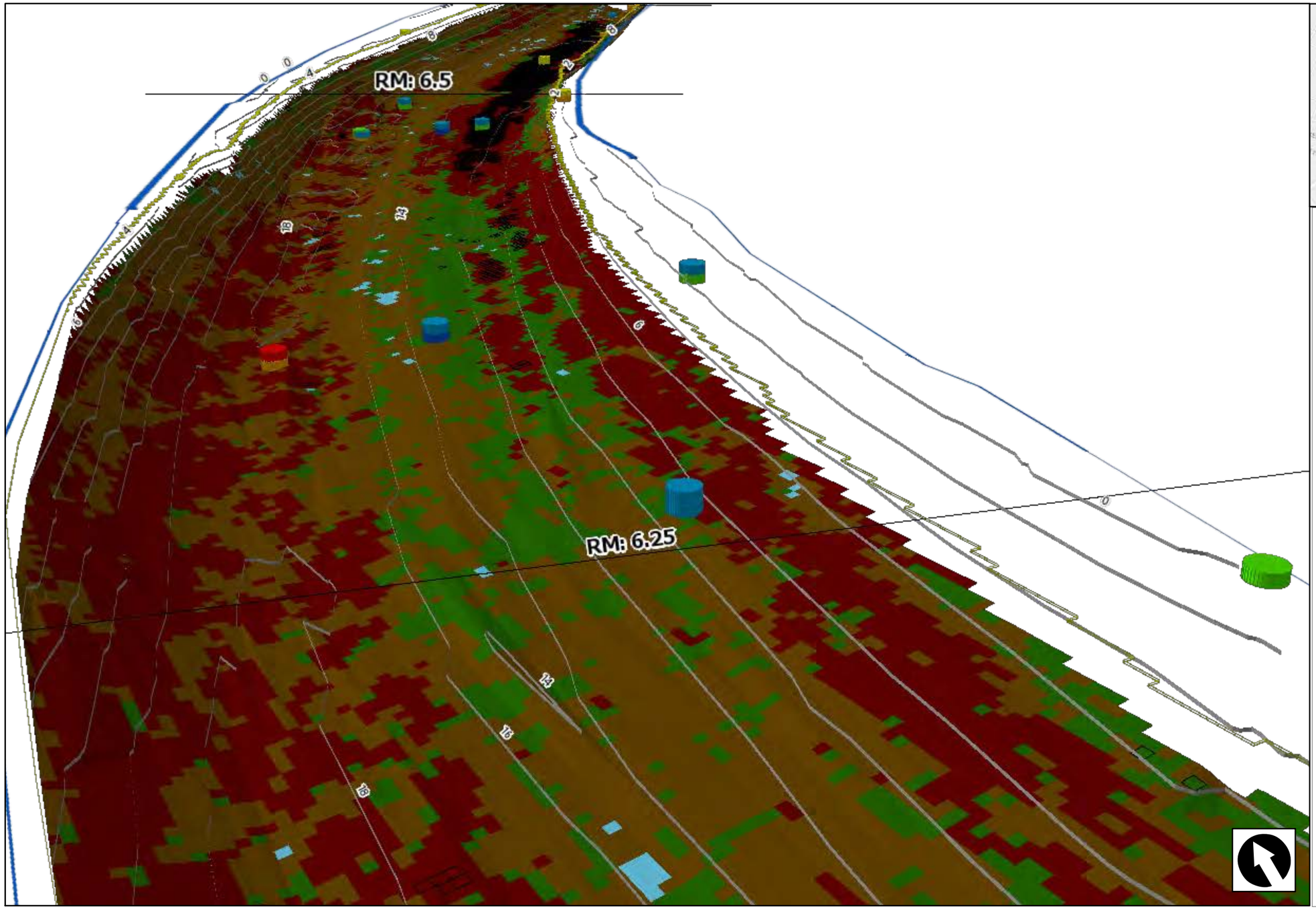
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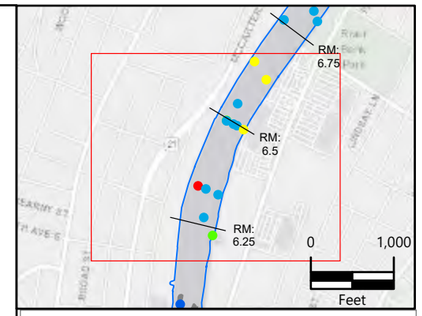
Figure 3-6c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
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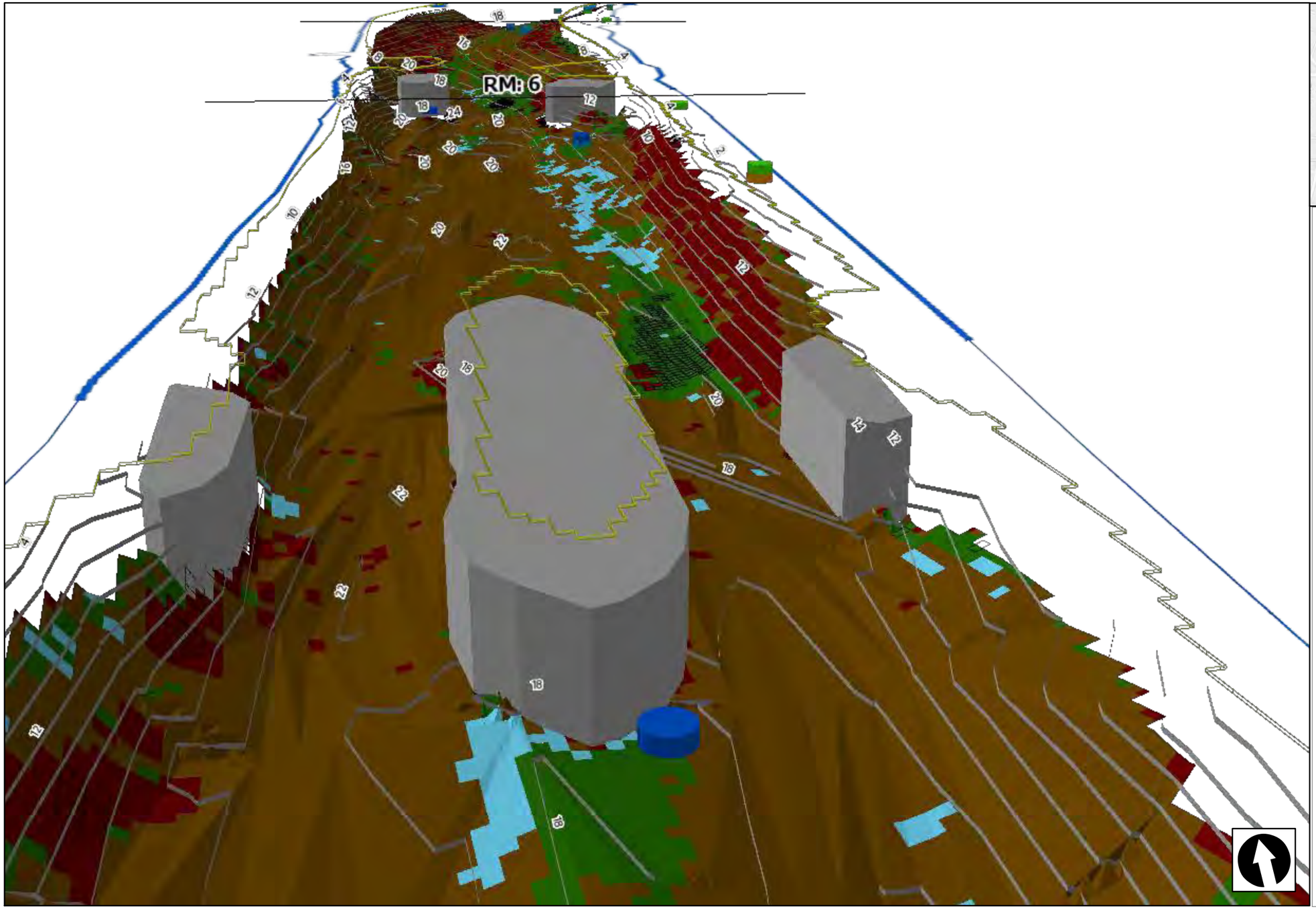
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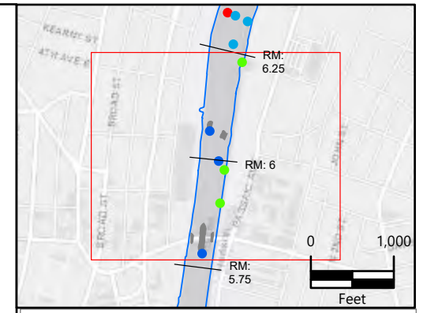
Figure 3-6d

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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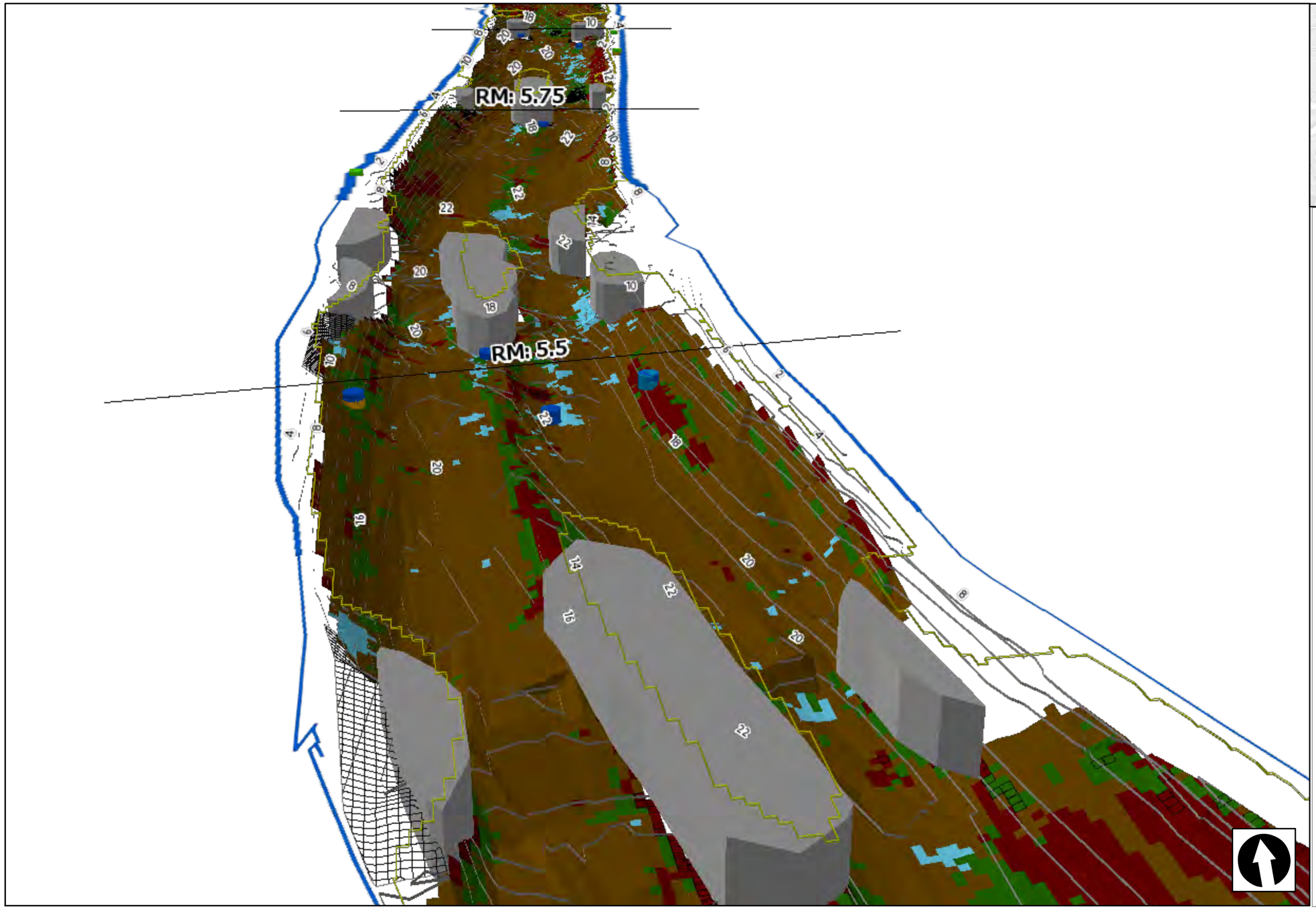
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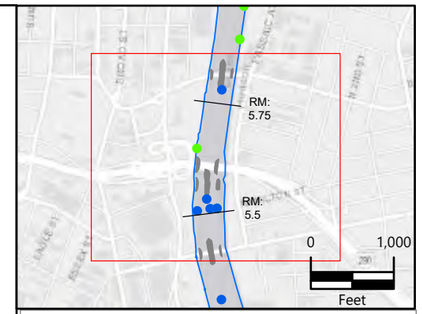
Figure 3-6e

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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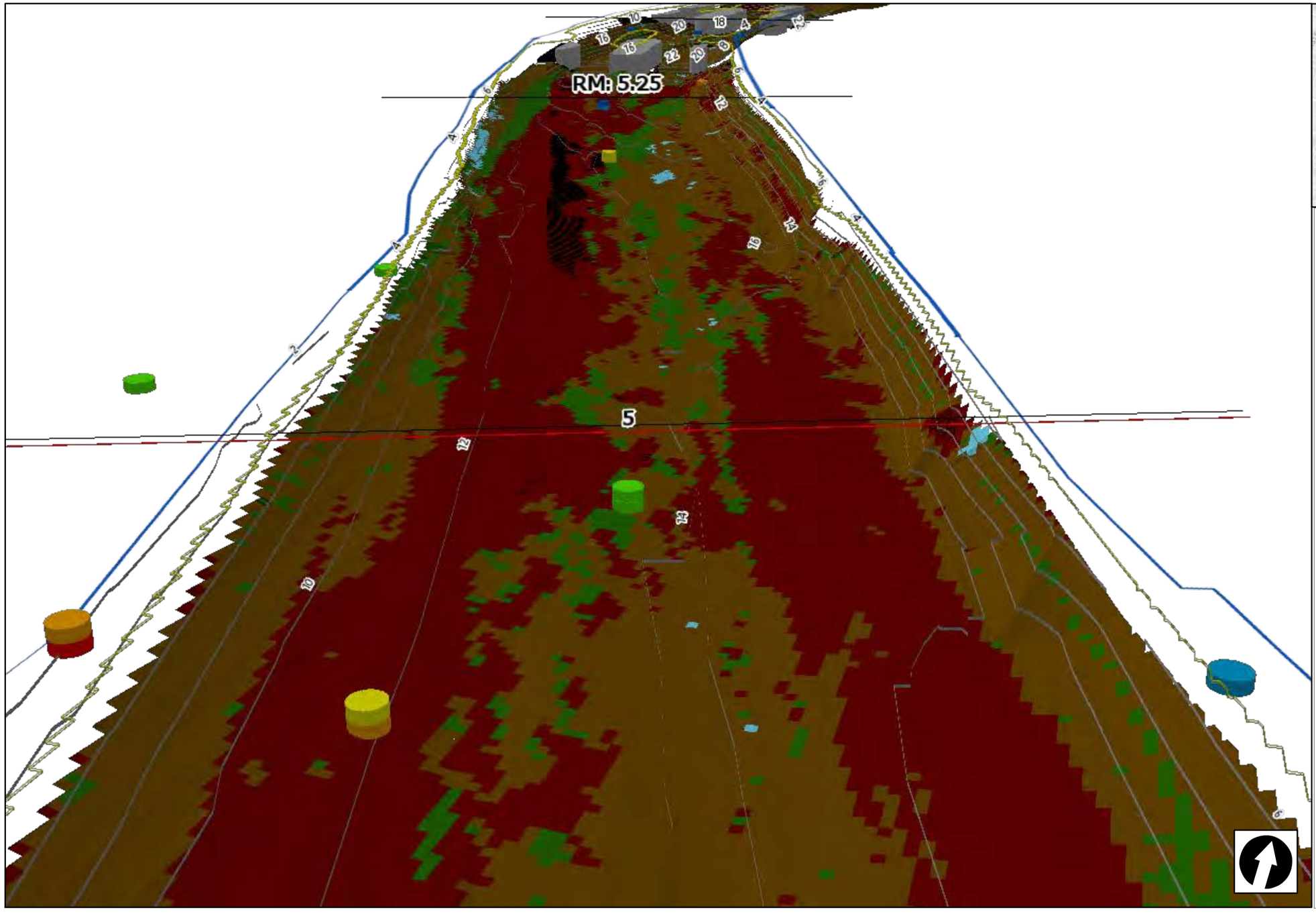
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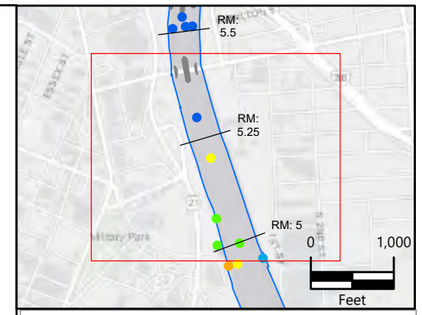
Figure 3-6f

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
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- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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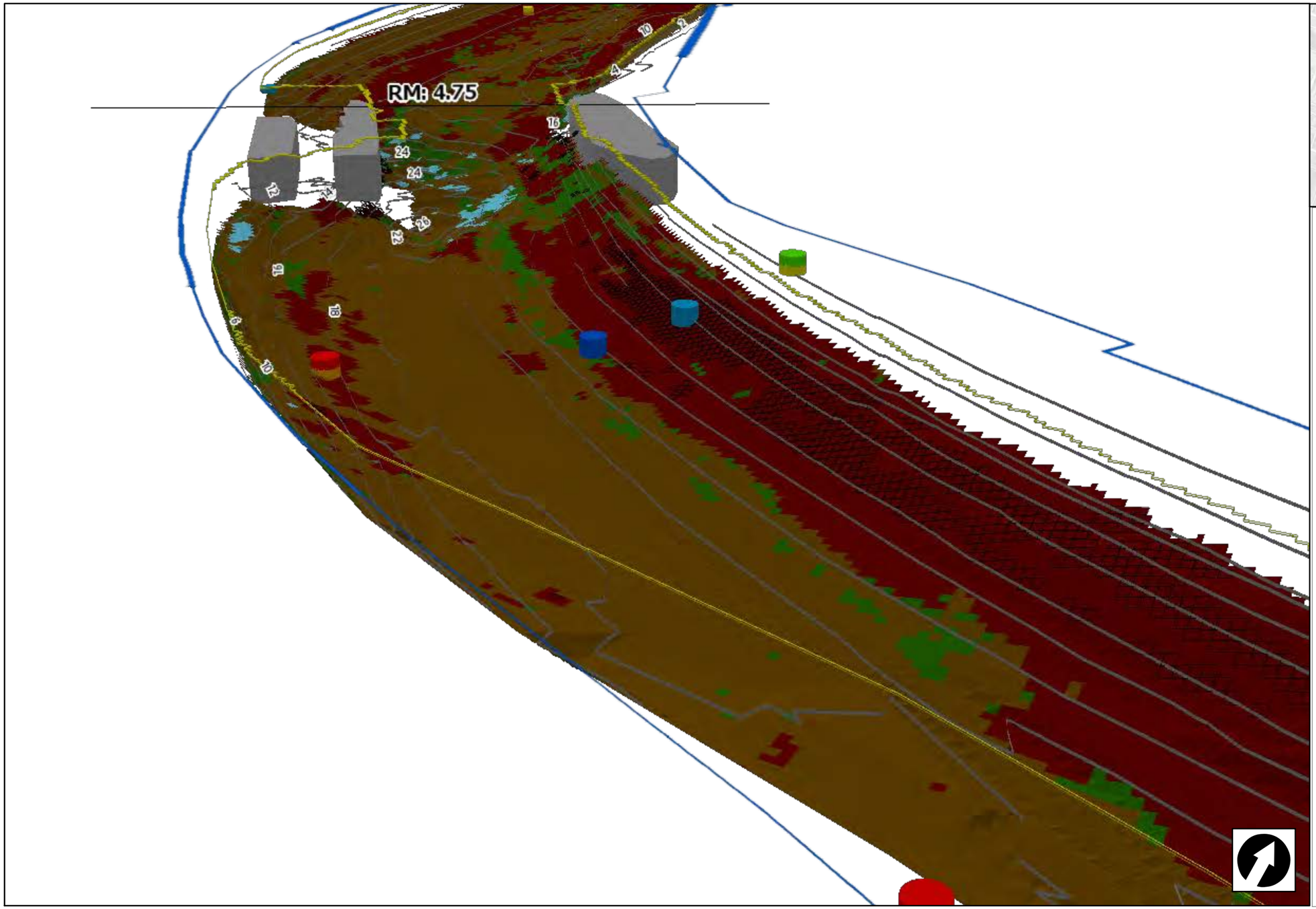
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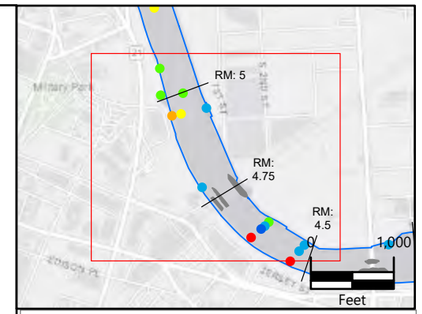
Figure 3-6g

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
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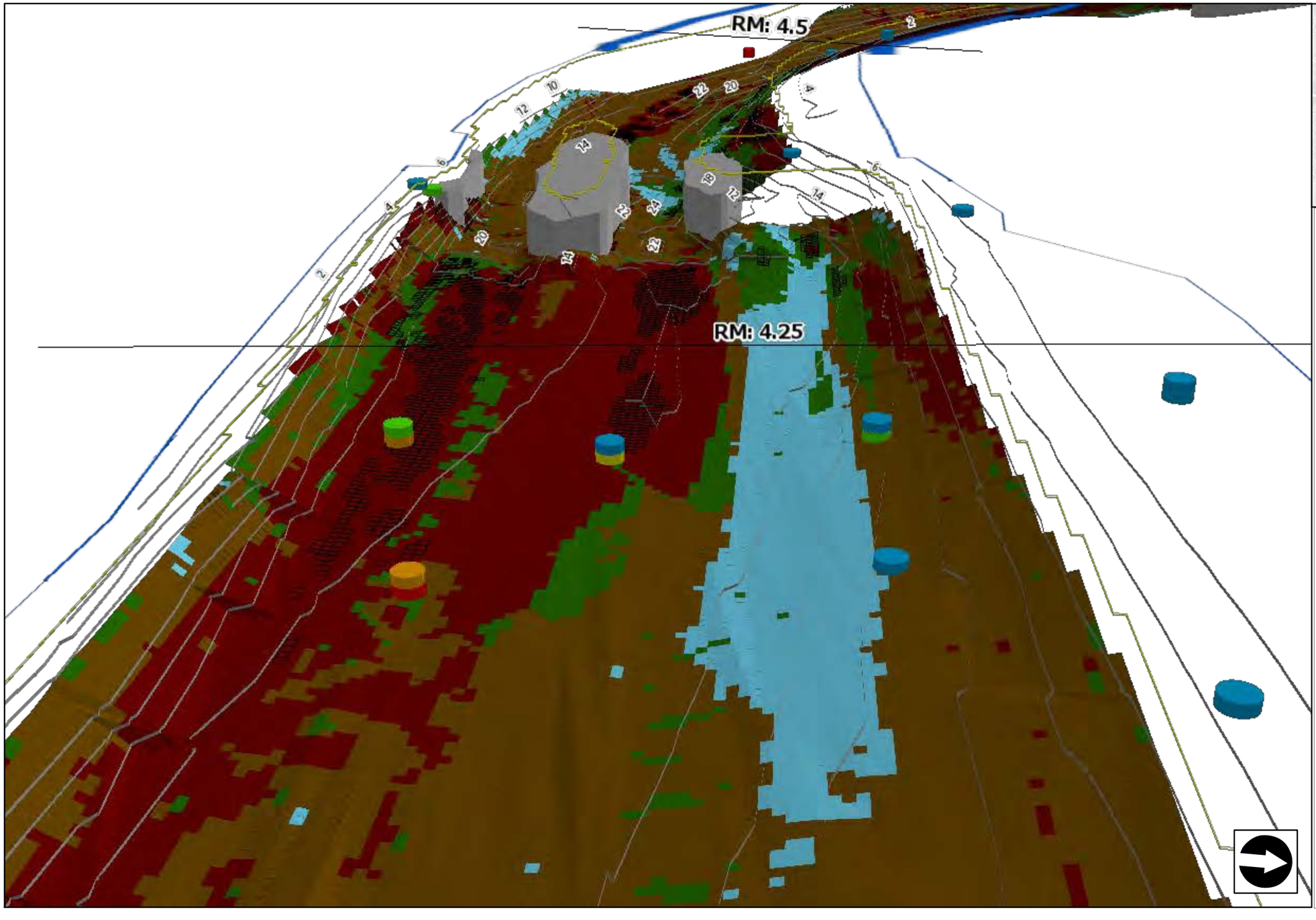
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Figure 3-7a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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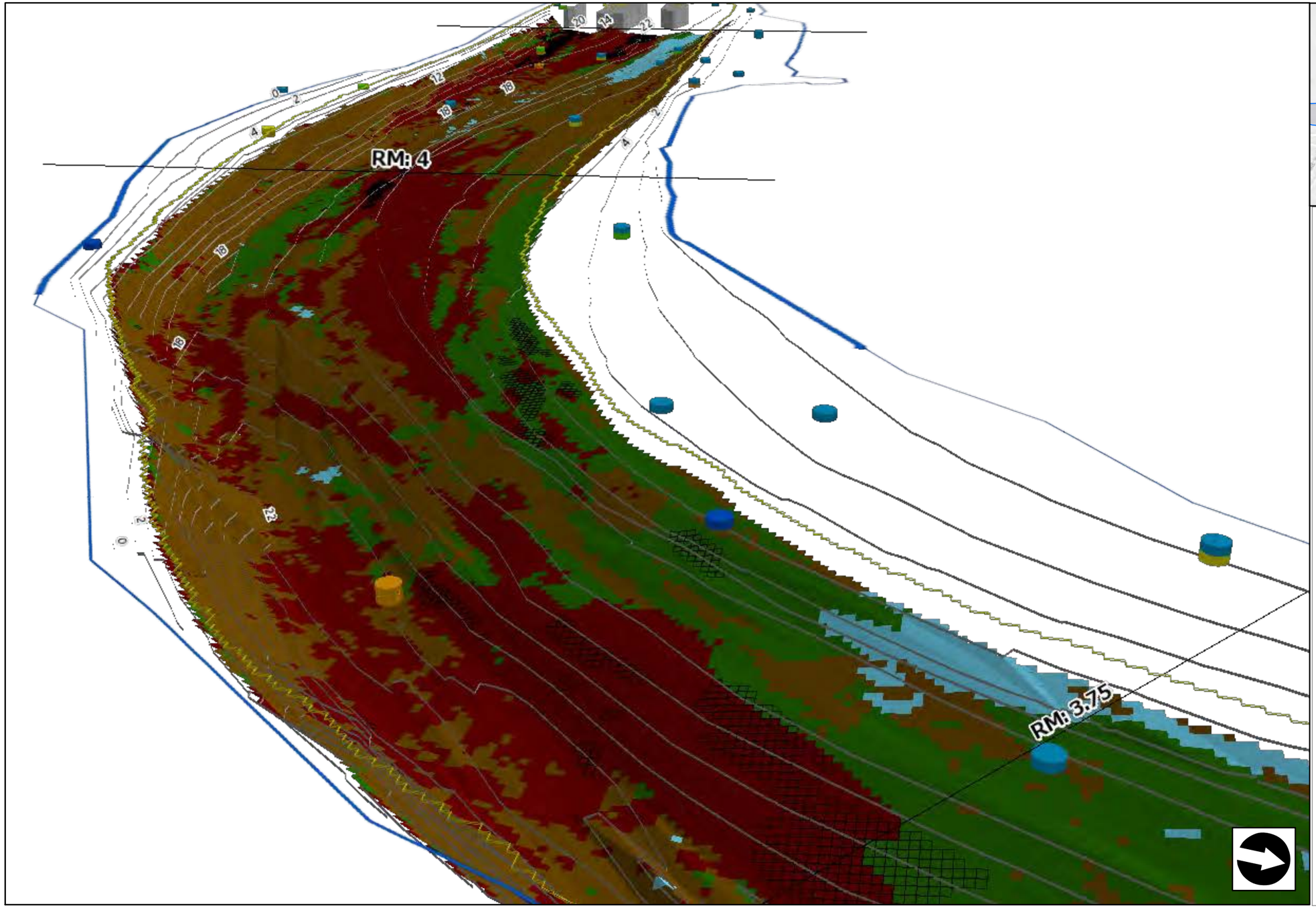
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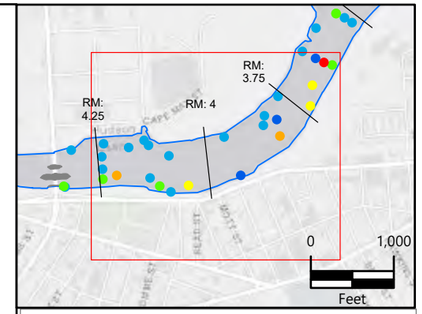
Figure 3-7b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
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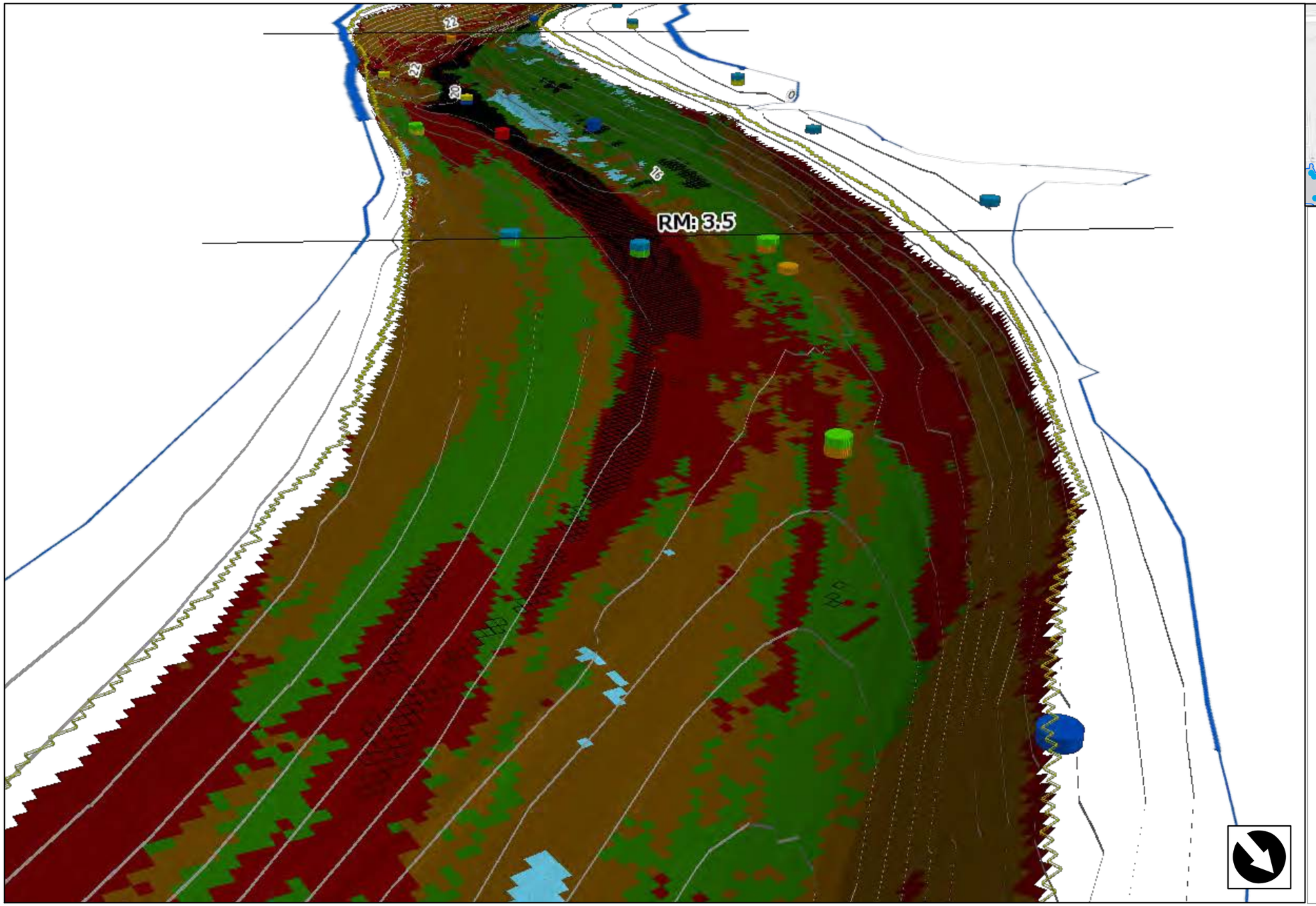
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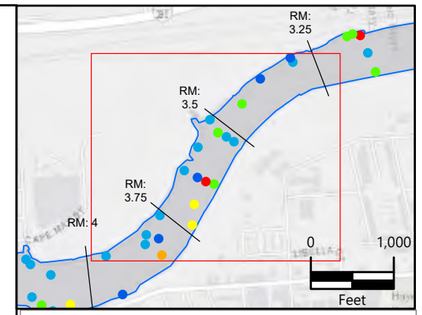
Figure 3-7c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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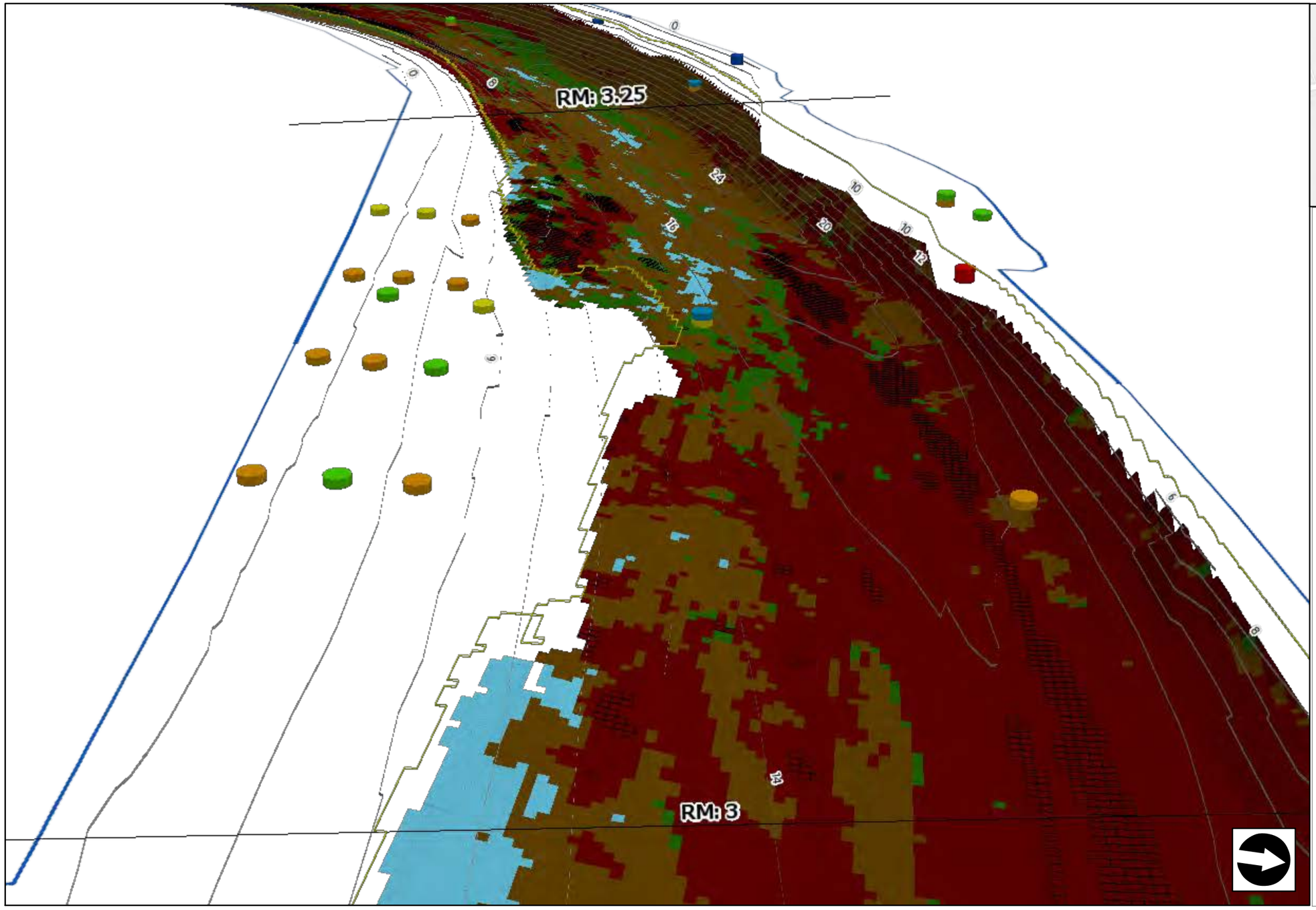
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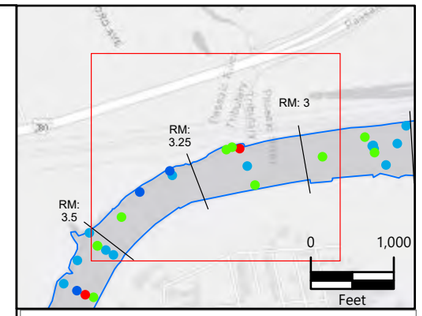
Figure 3-7d

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
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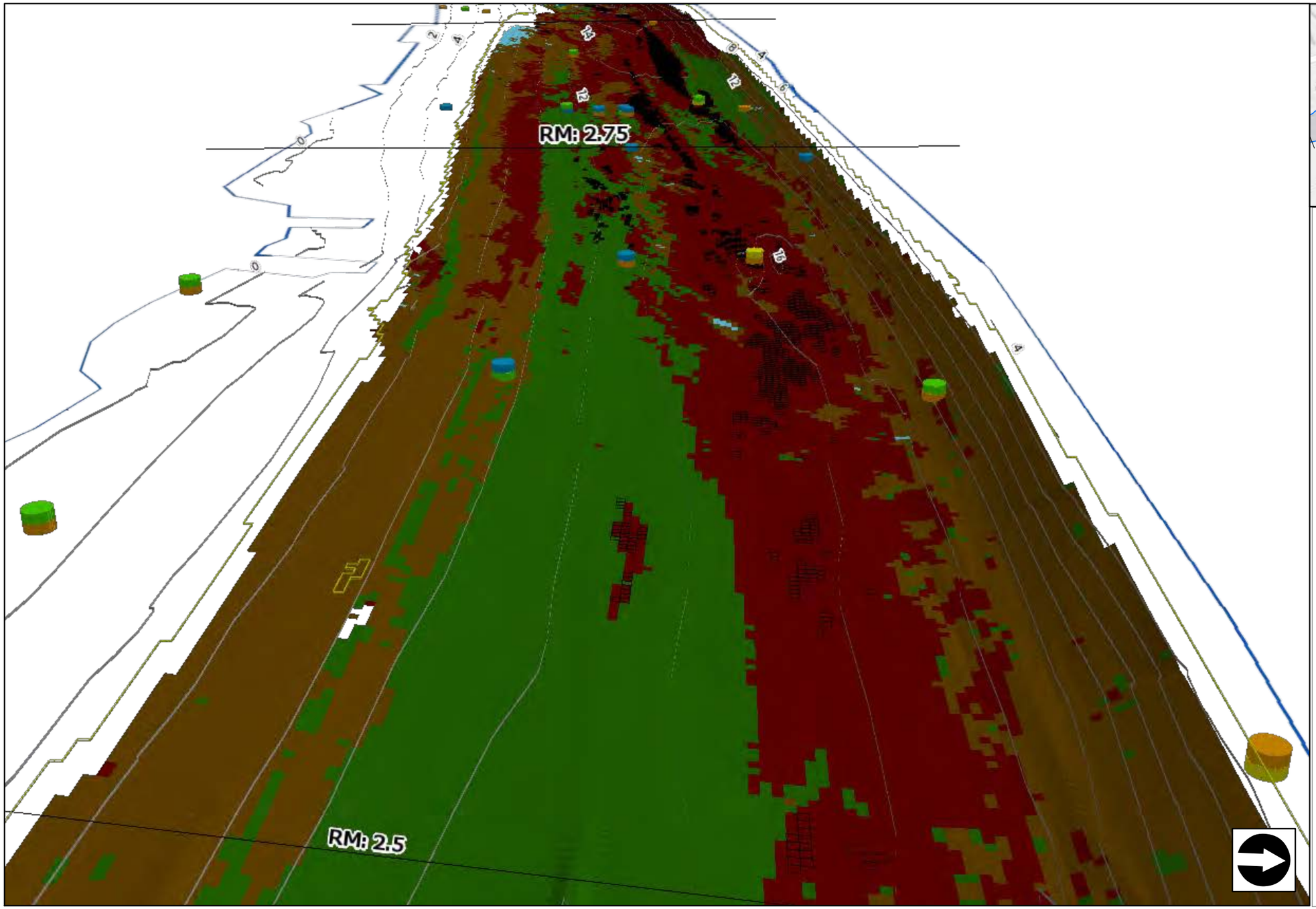
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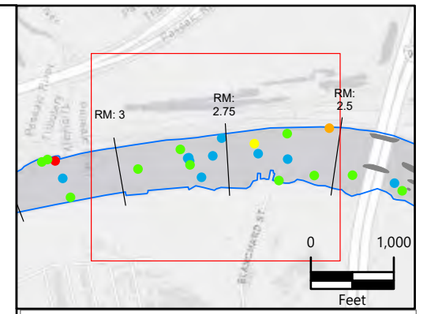
Figure 3-7e

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

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- 3 - 4
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- >10

Bathymetric Change Category *

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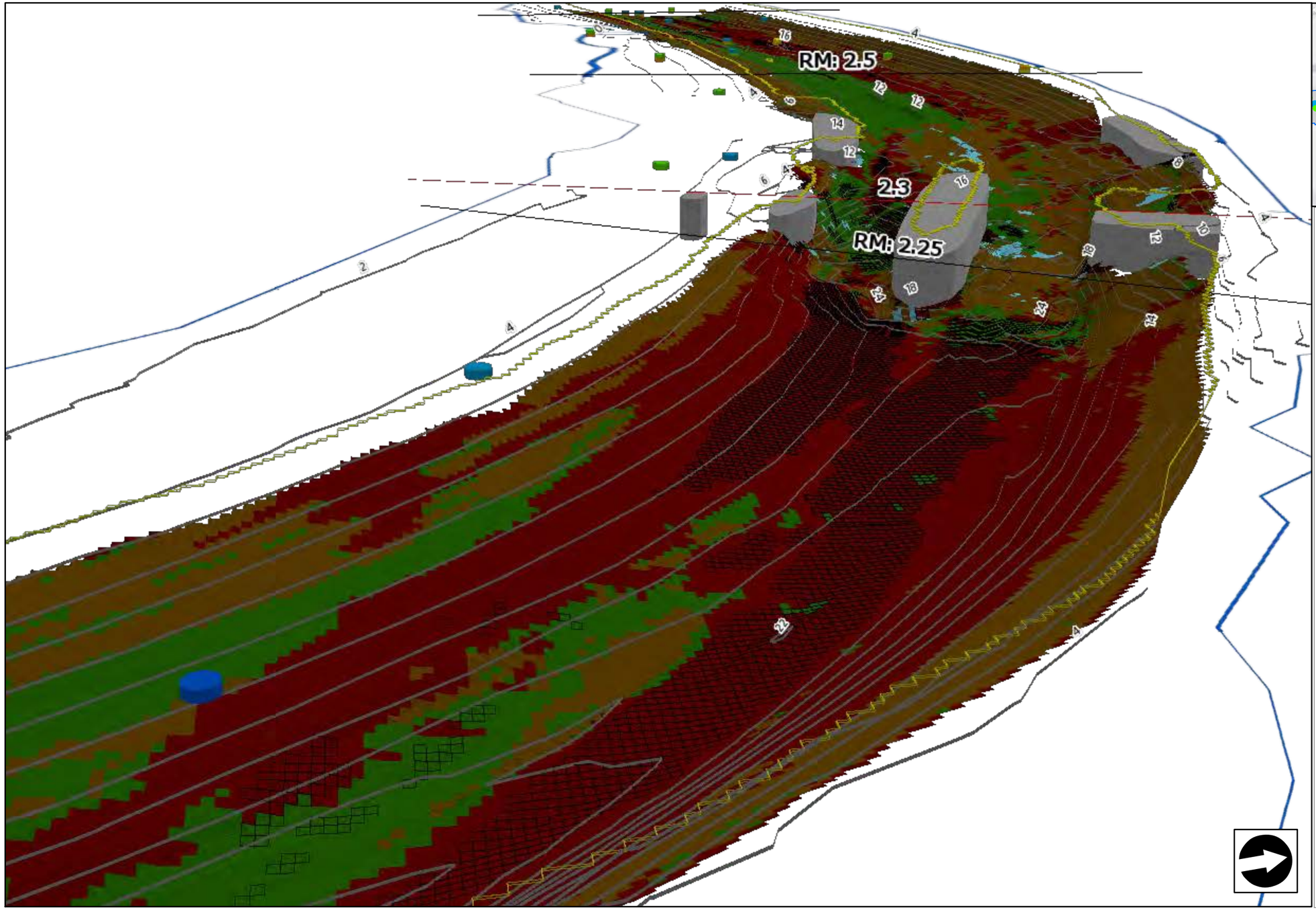
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Figure 3-7f

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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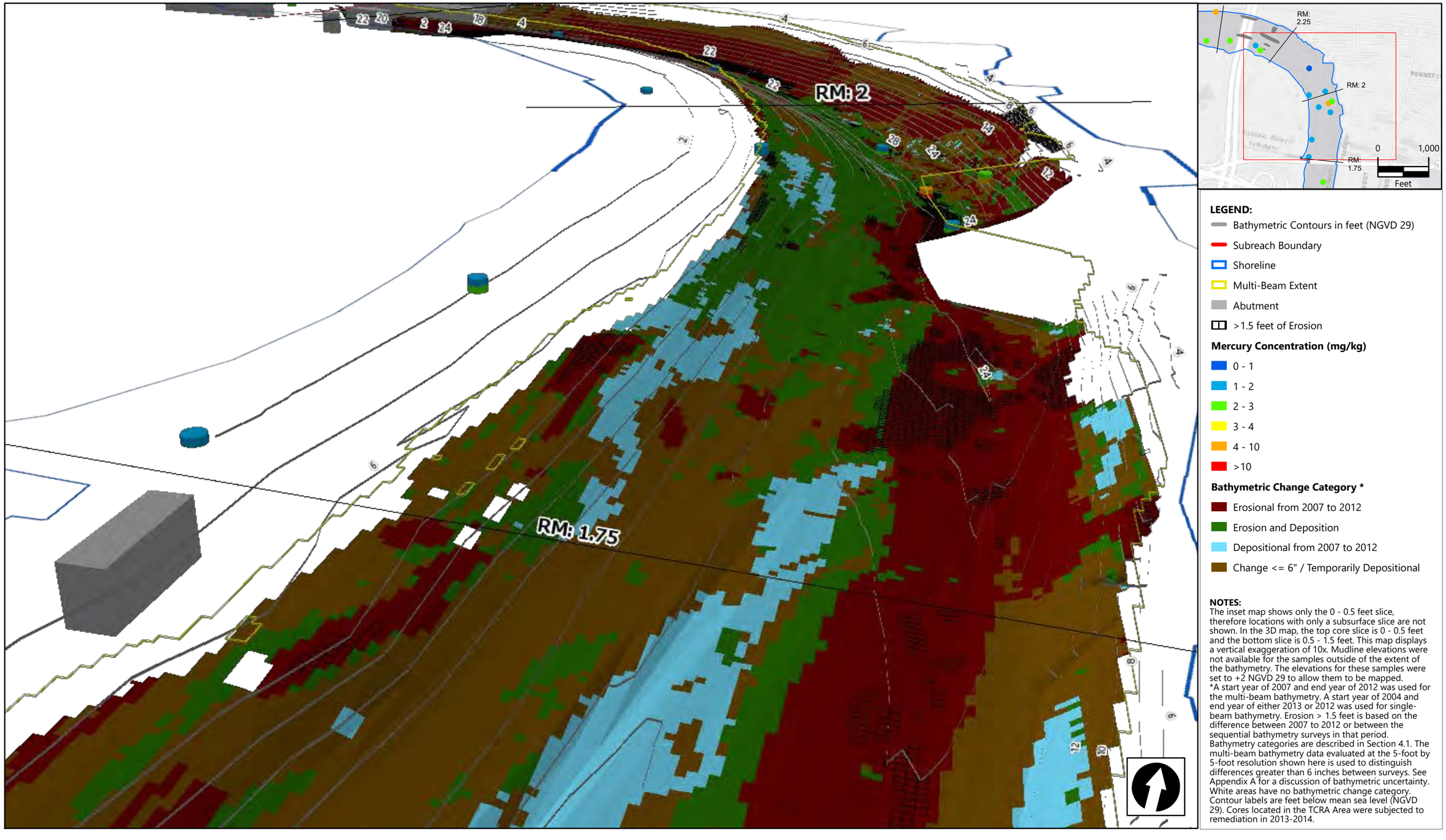
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Figure 3-7g

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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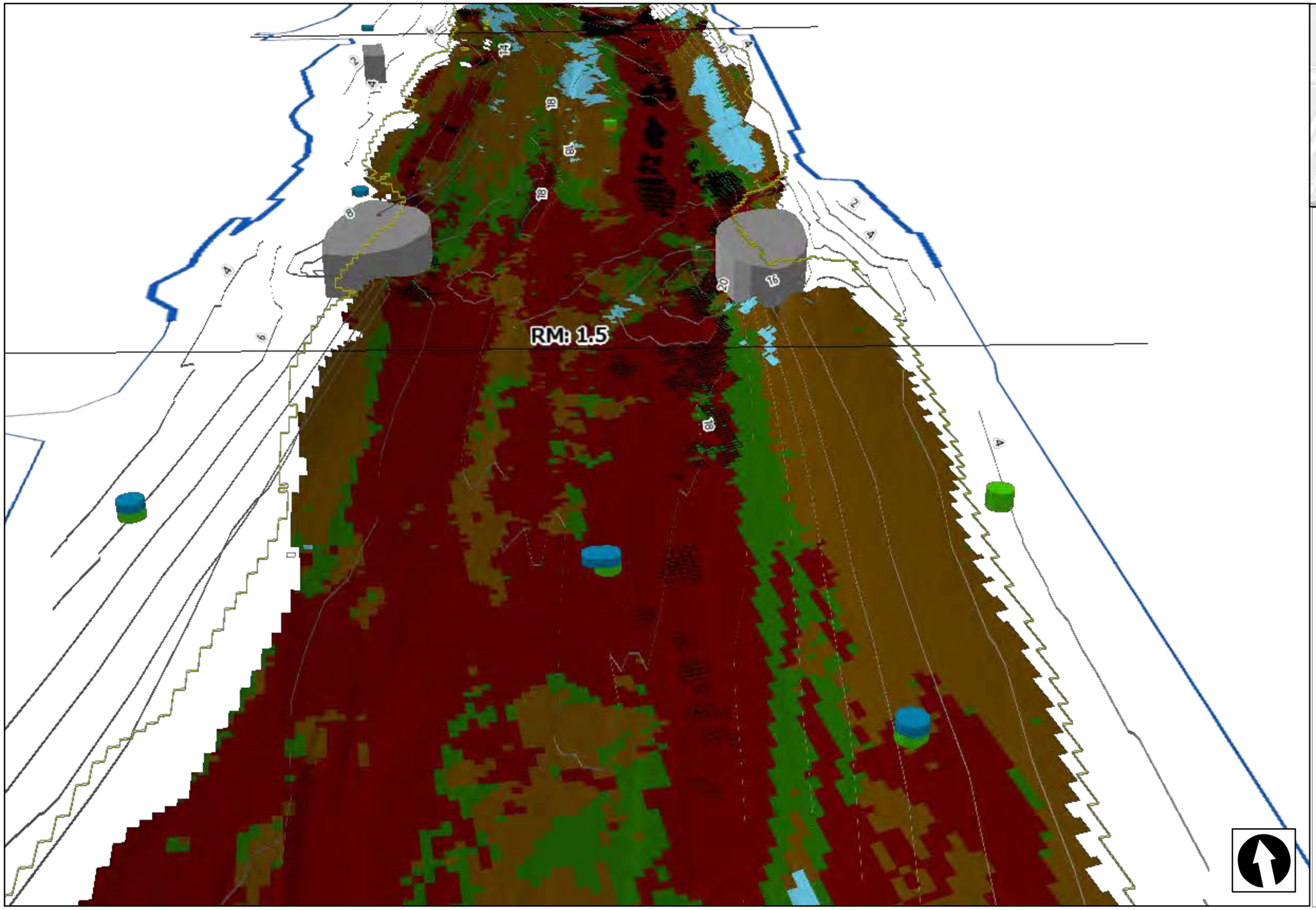
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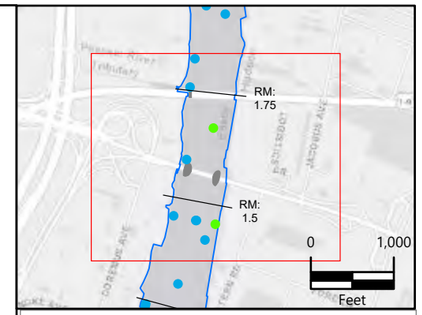
Figure 3-8a

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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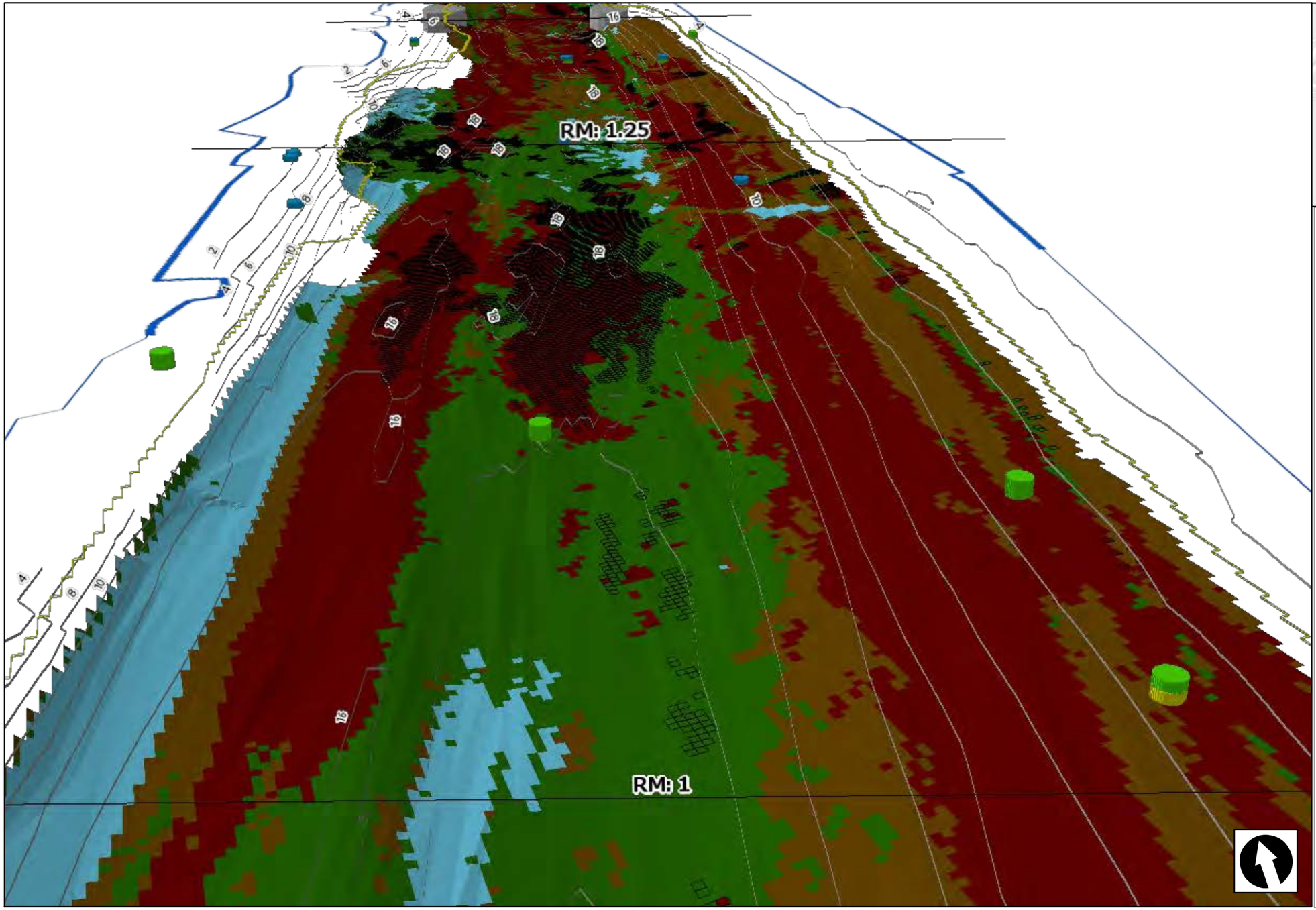
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Figure 3-8b

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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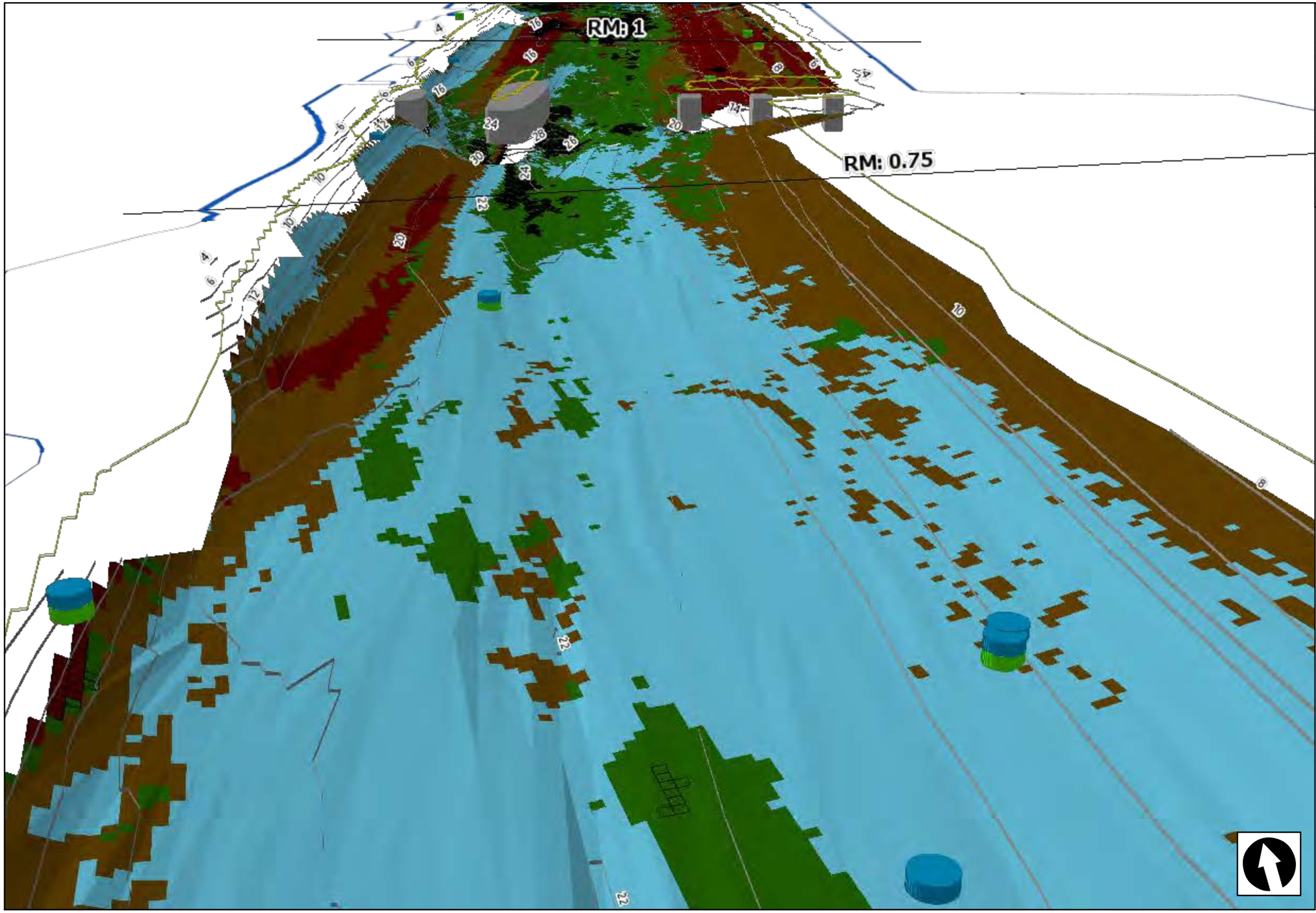
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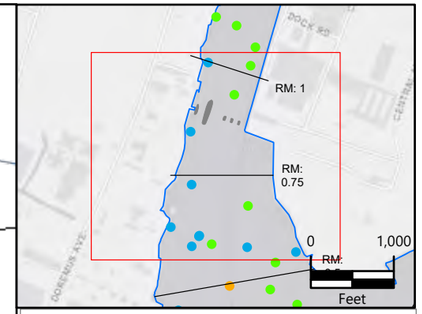
Figure 3-8c

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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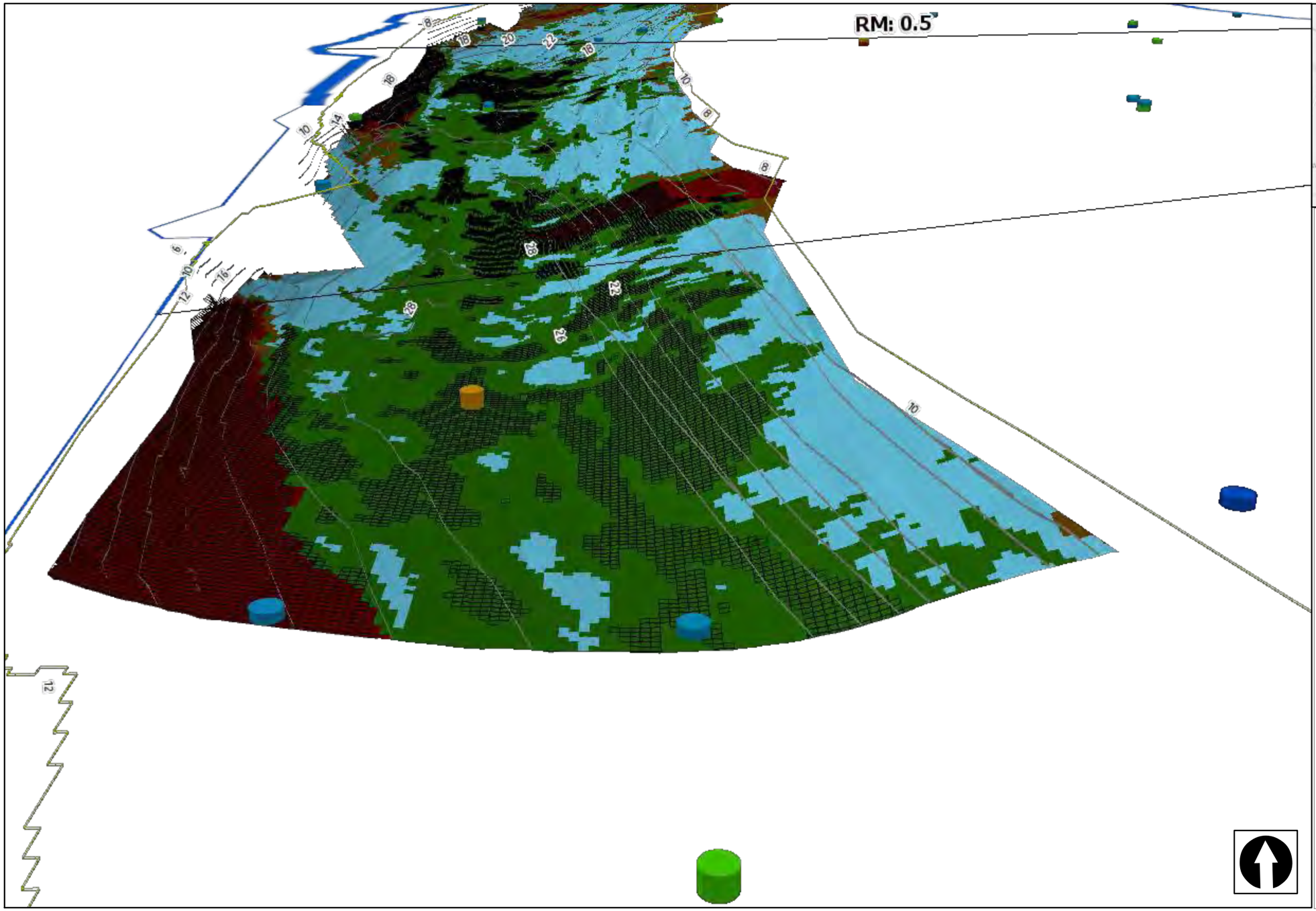
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Figure 3-8d

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

Mercury Concentration (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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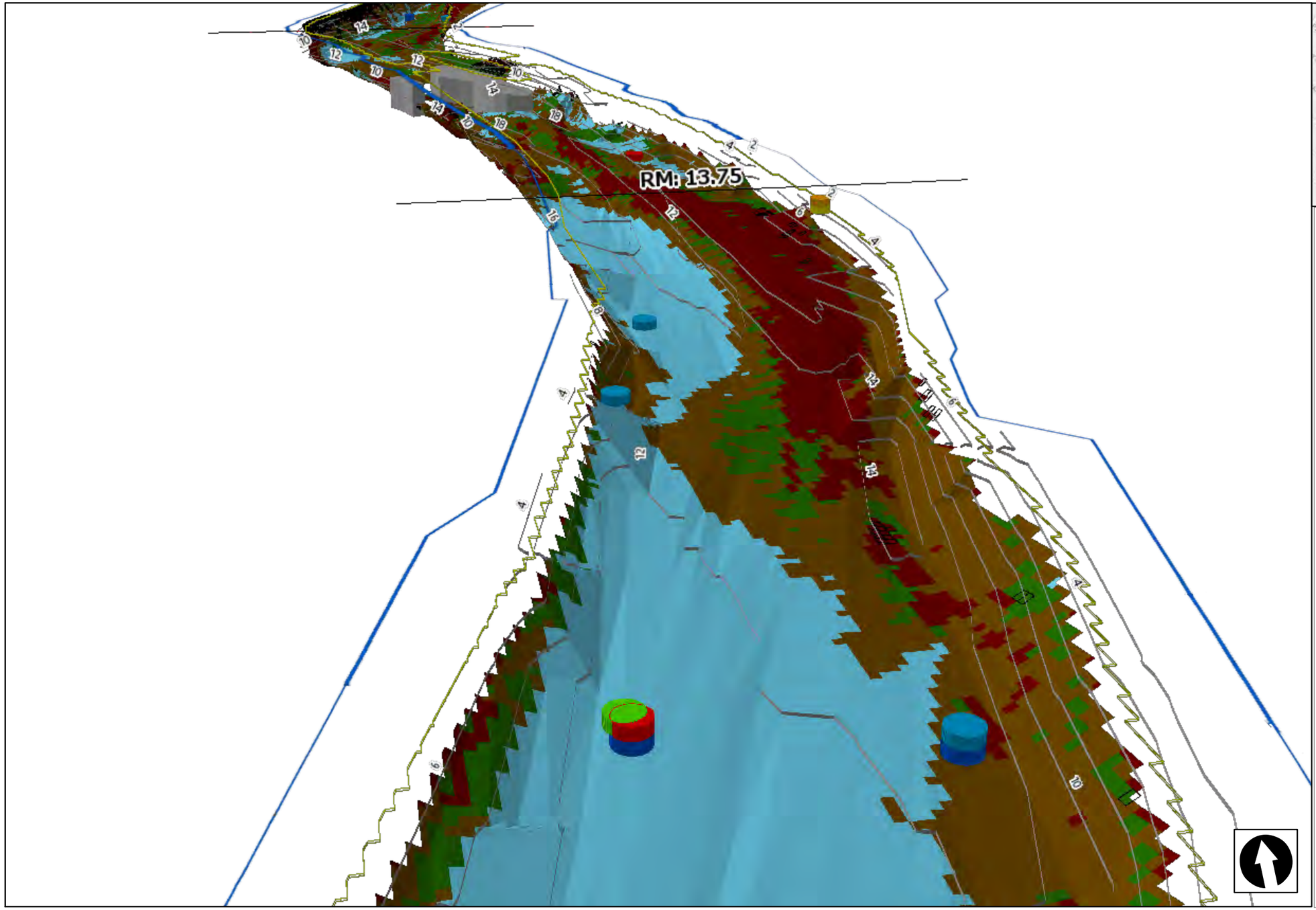
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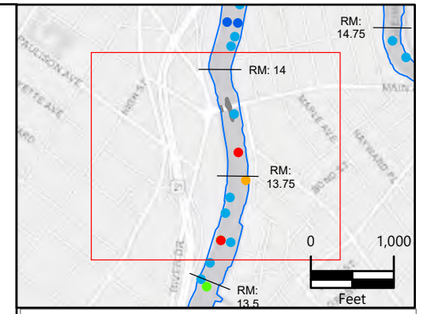
Figure 3-8e

Mercury Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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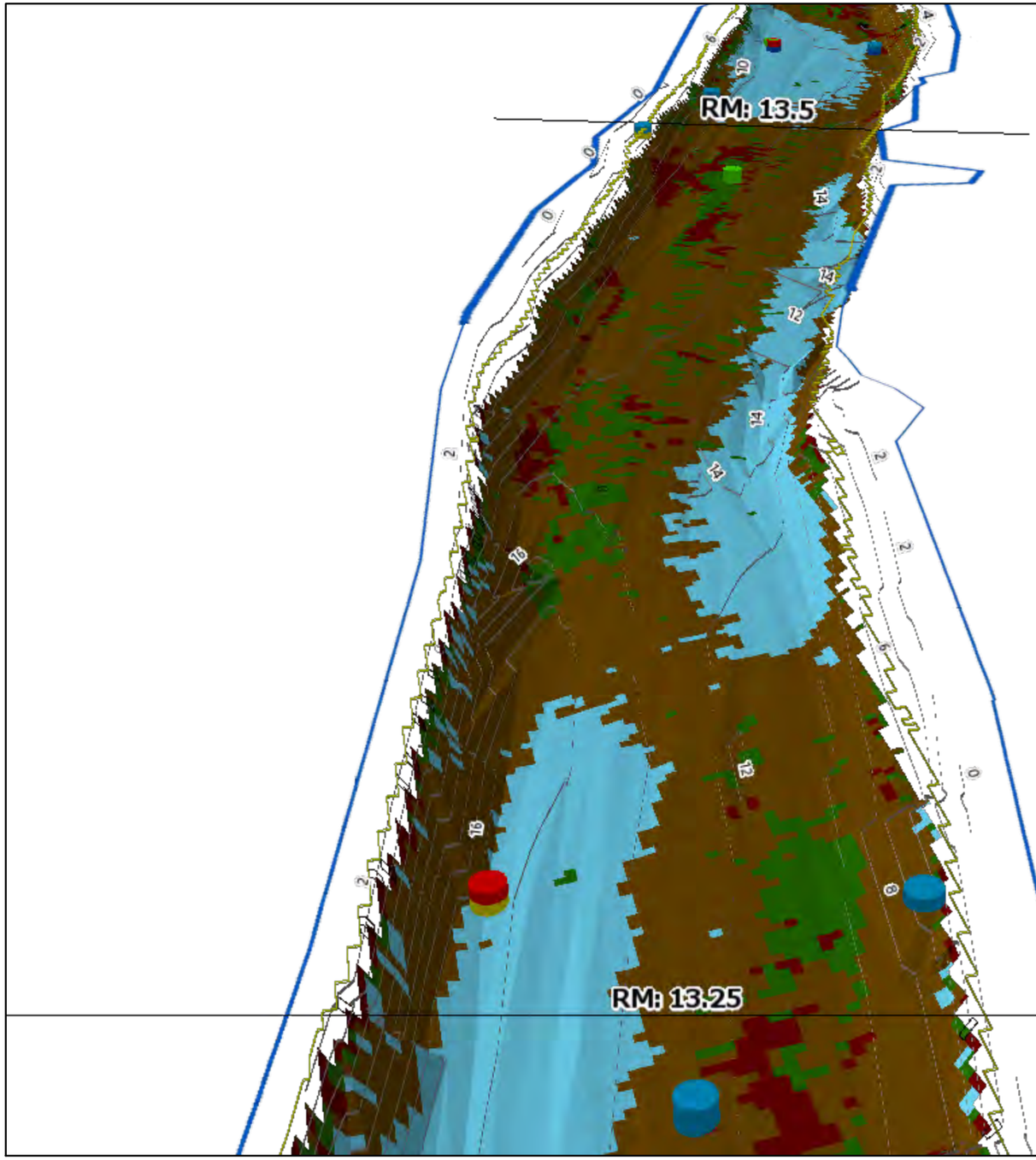
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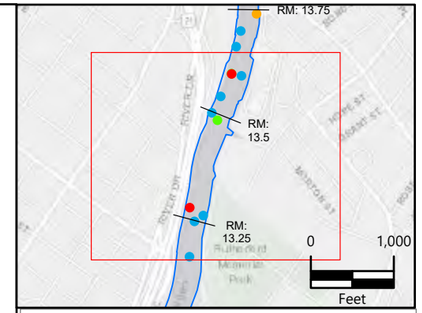
Figure 4-1a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
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NOTES:
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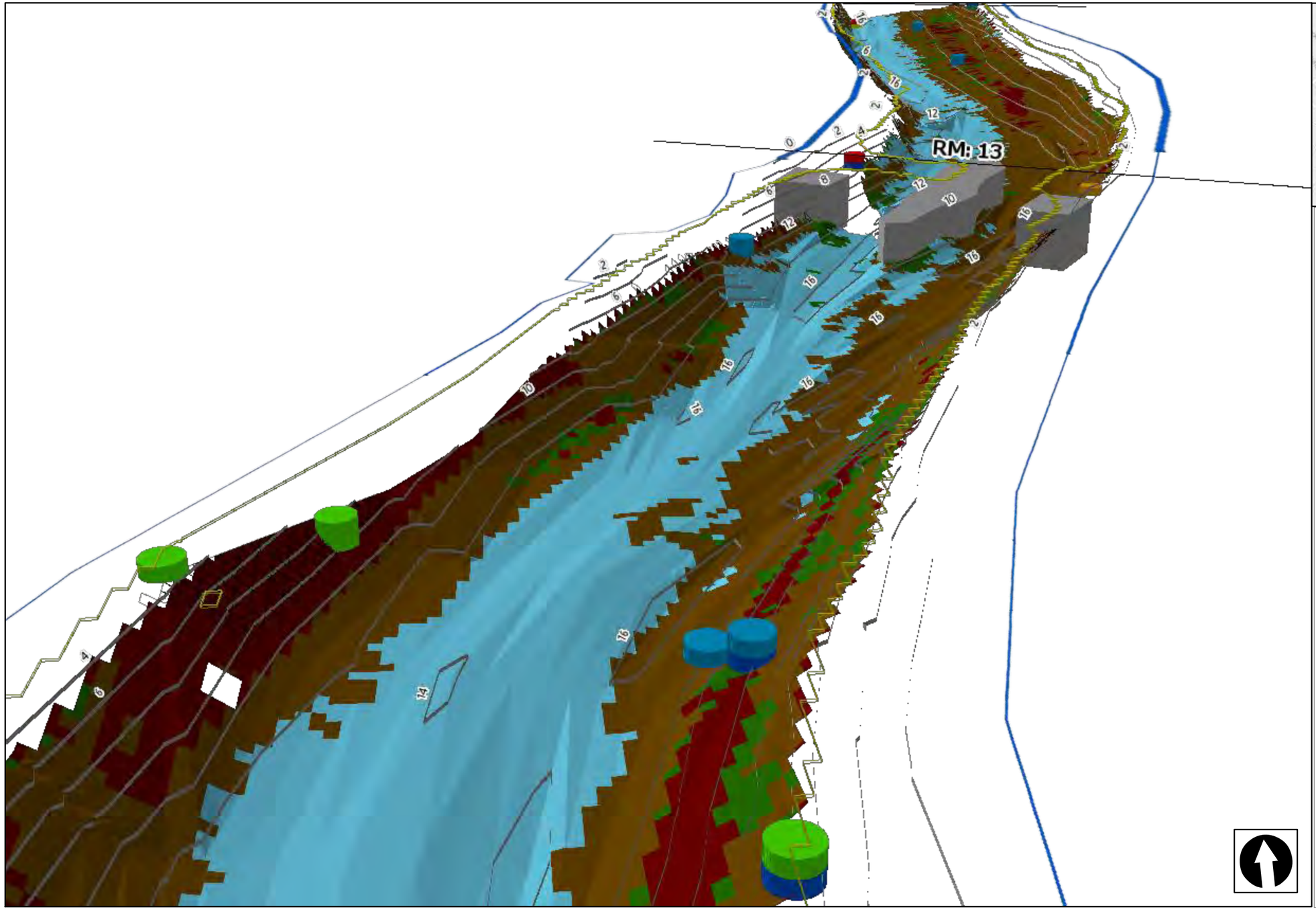
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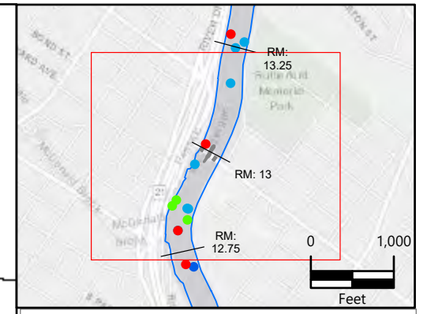
Figure 4-1b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

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Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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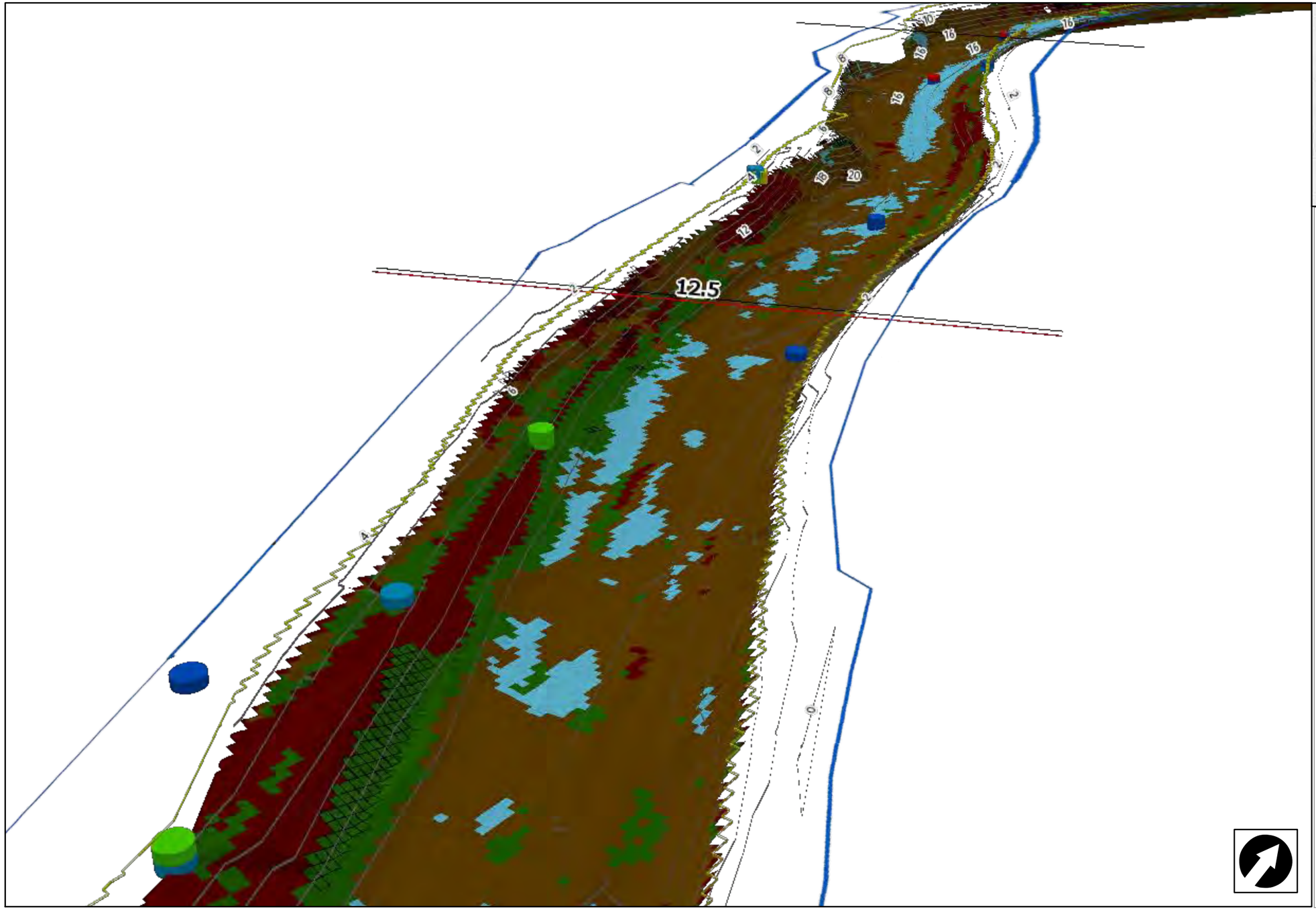
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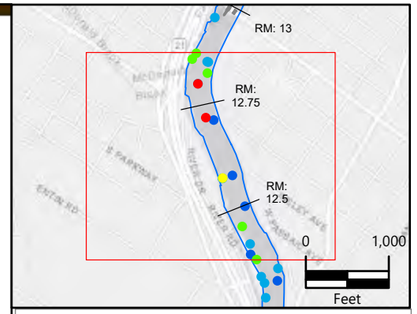
Figure 4-1c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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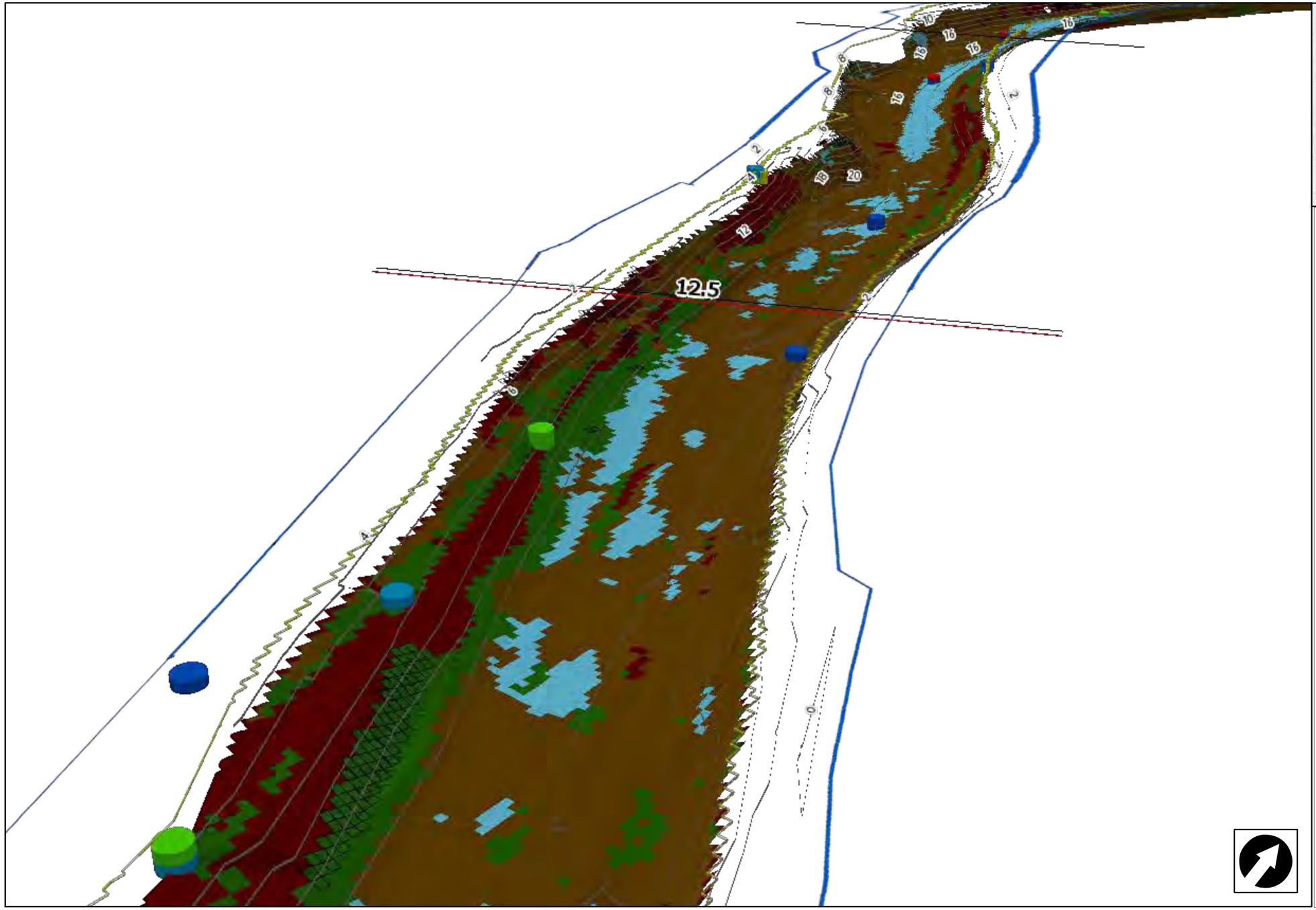
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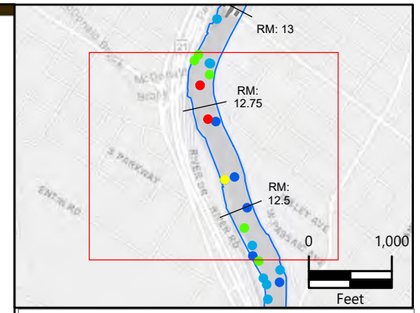
Figure 4-1d

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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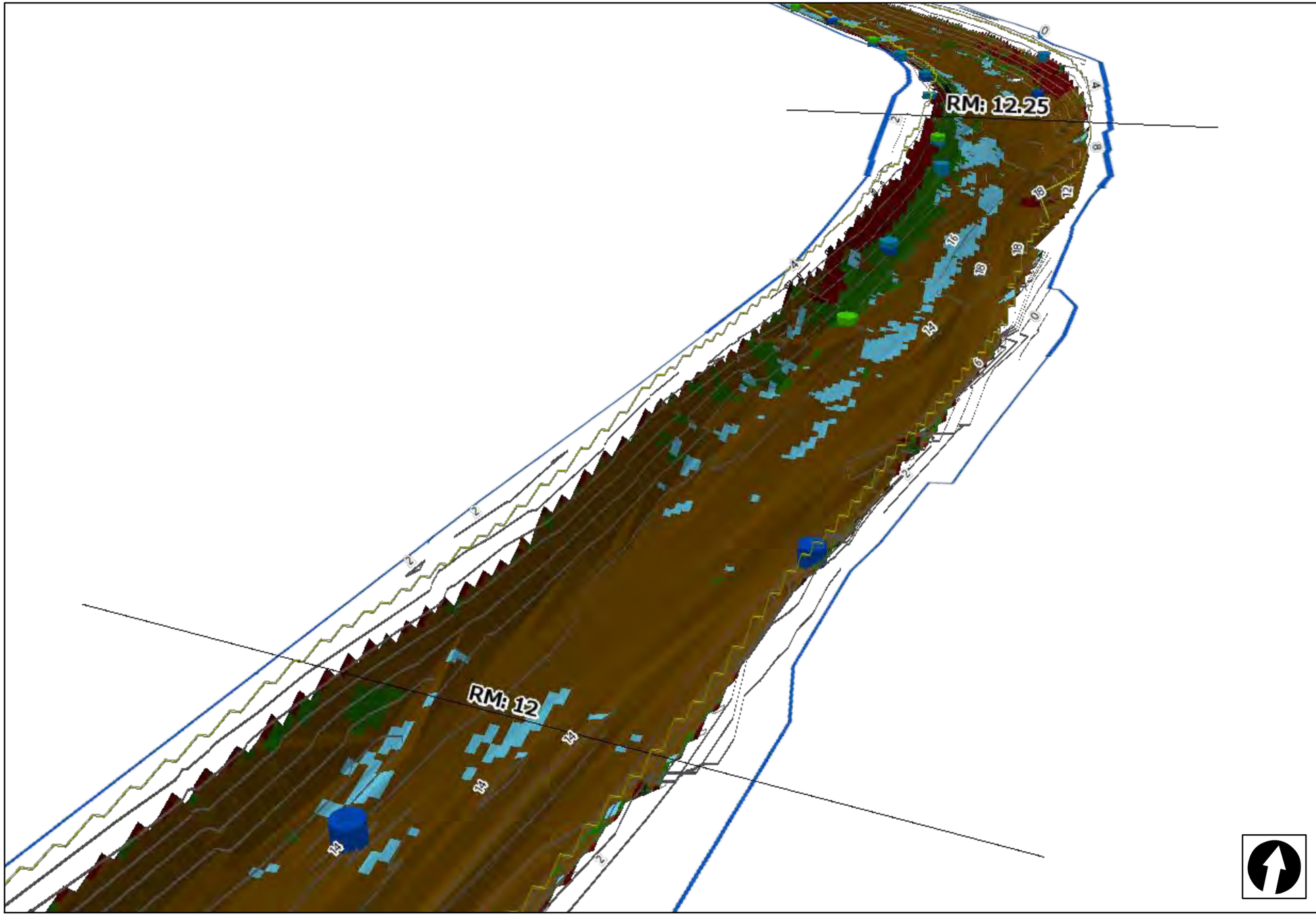
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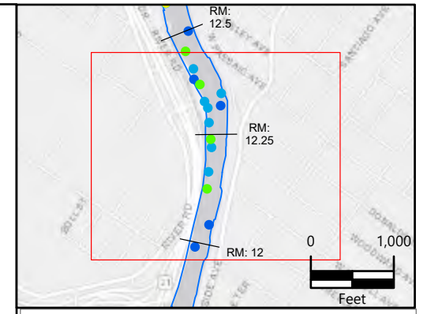
Figure 4-2a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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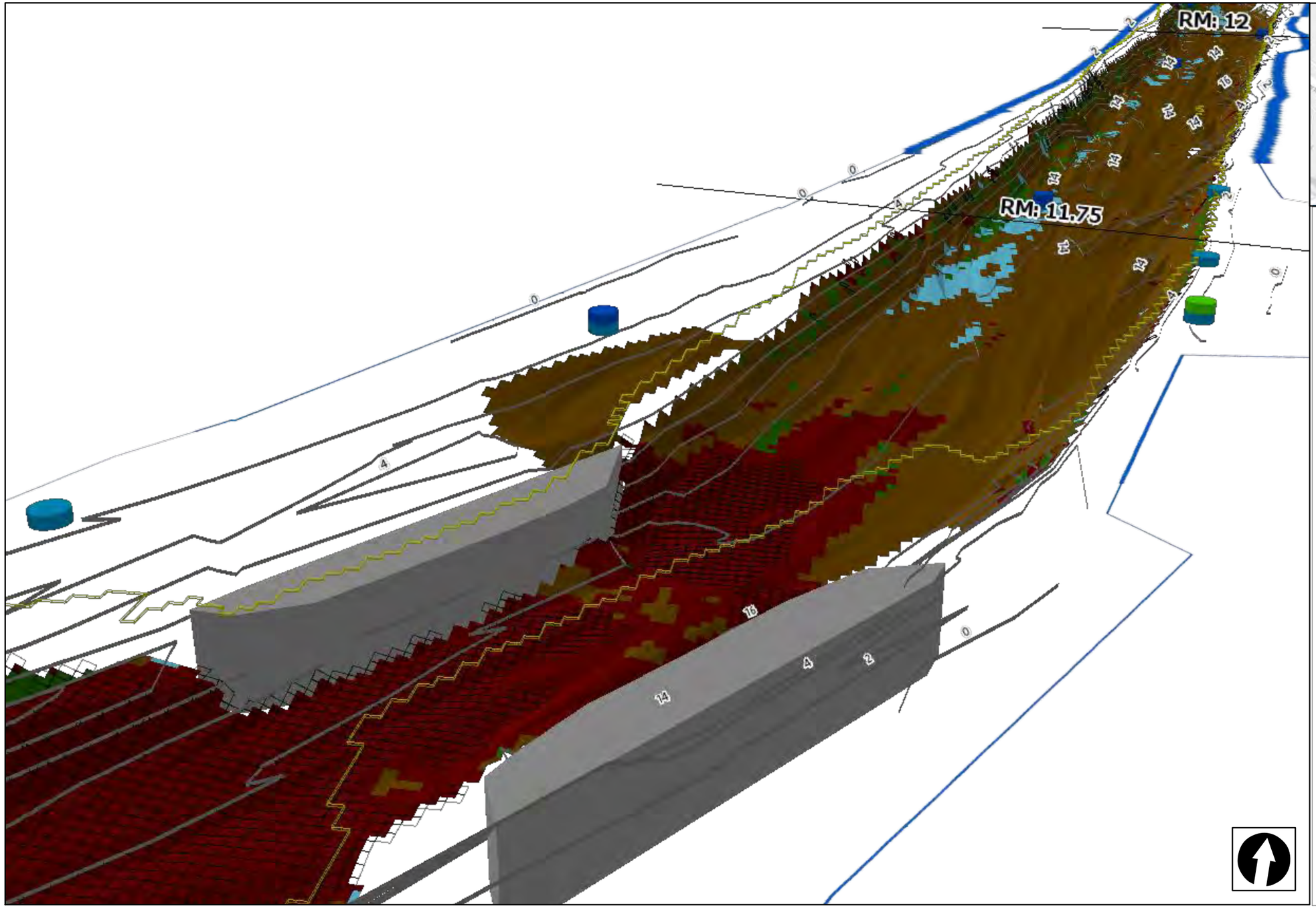
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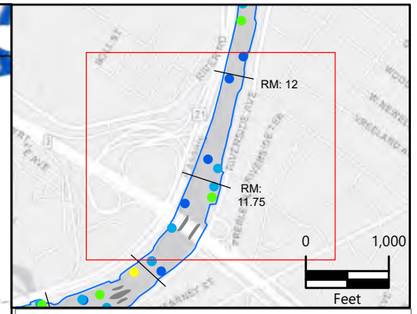
Figure 4-2b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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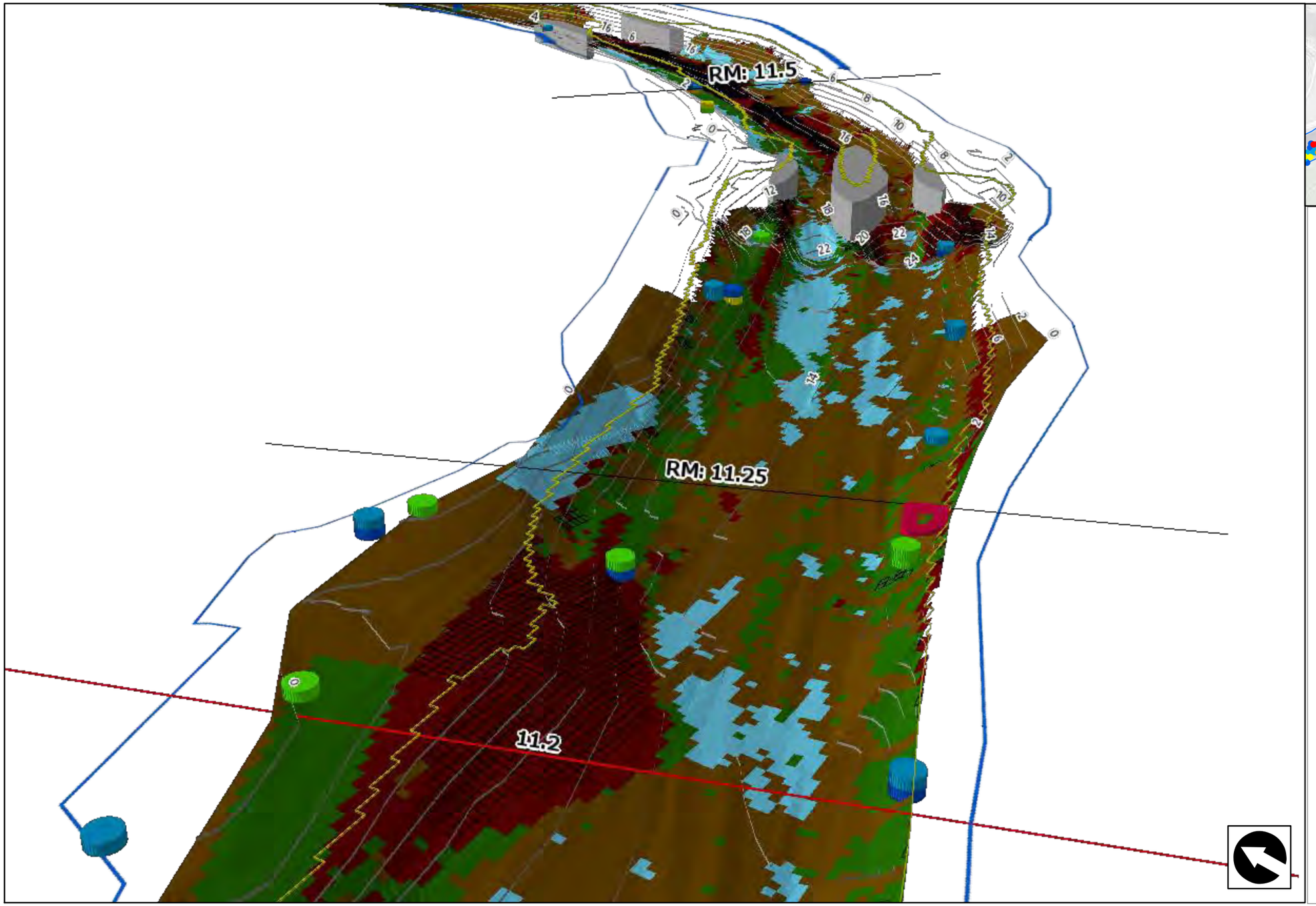
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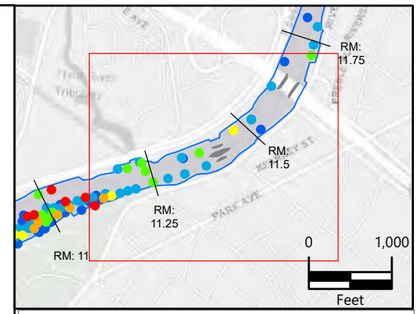
Figure 4-2c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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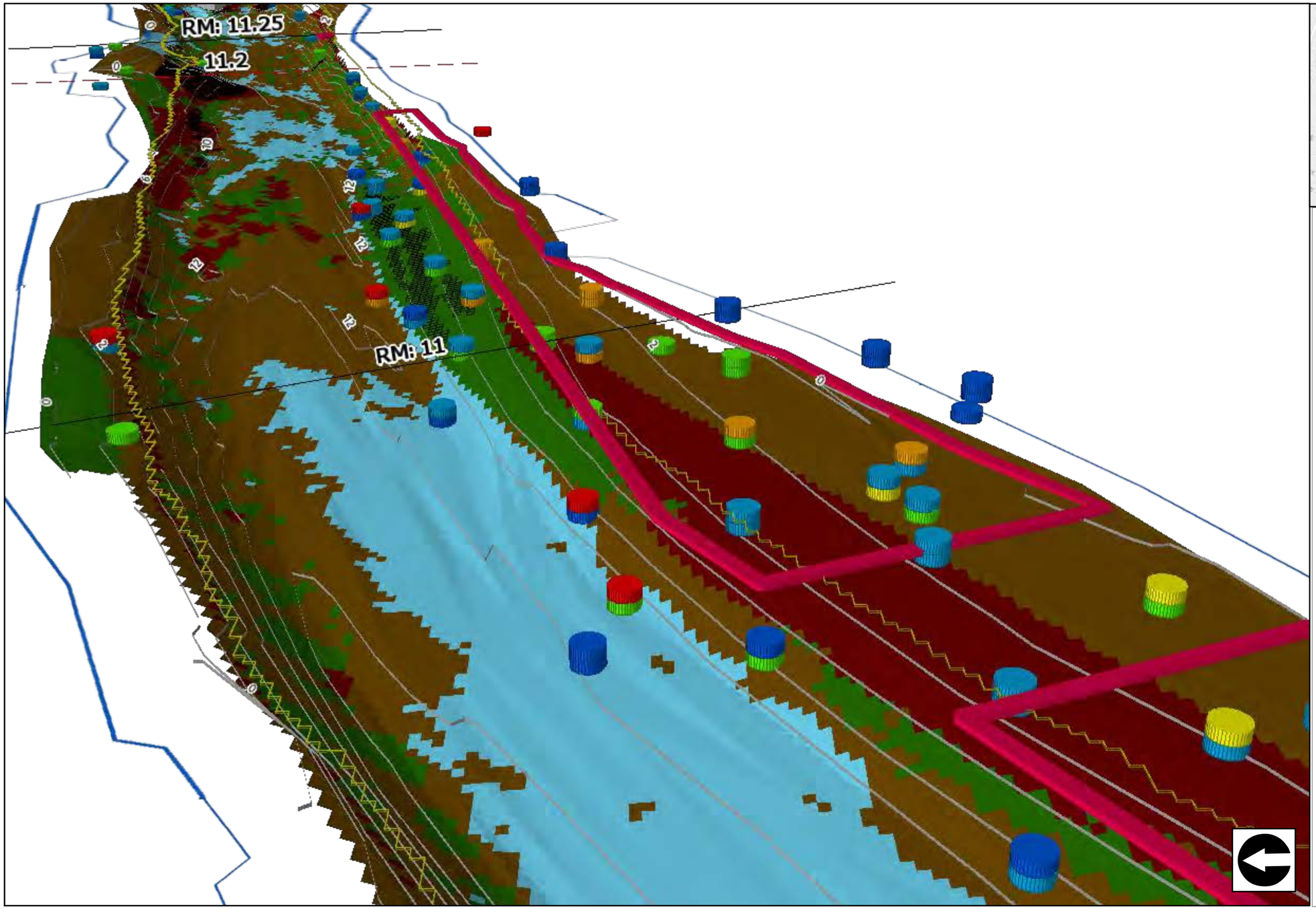
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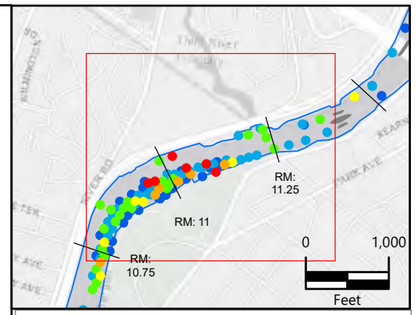
Figure 4-2d

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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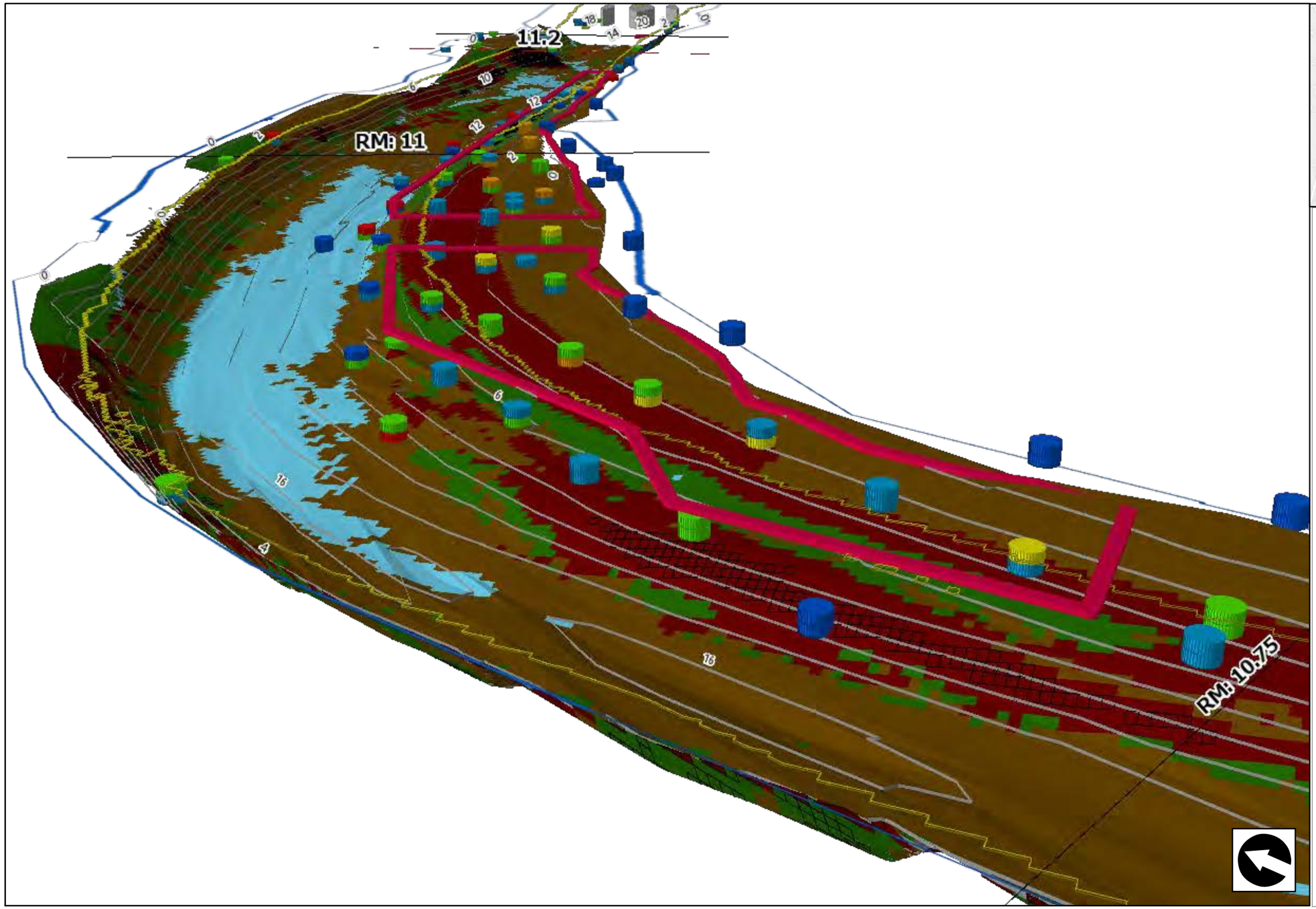
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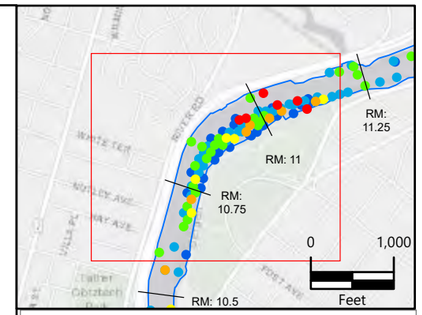
Figure 4-3a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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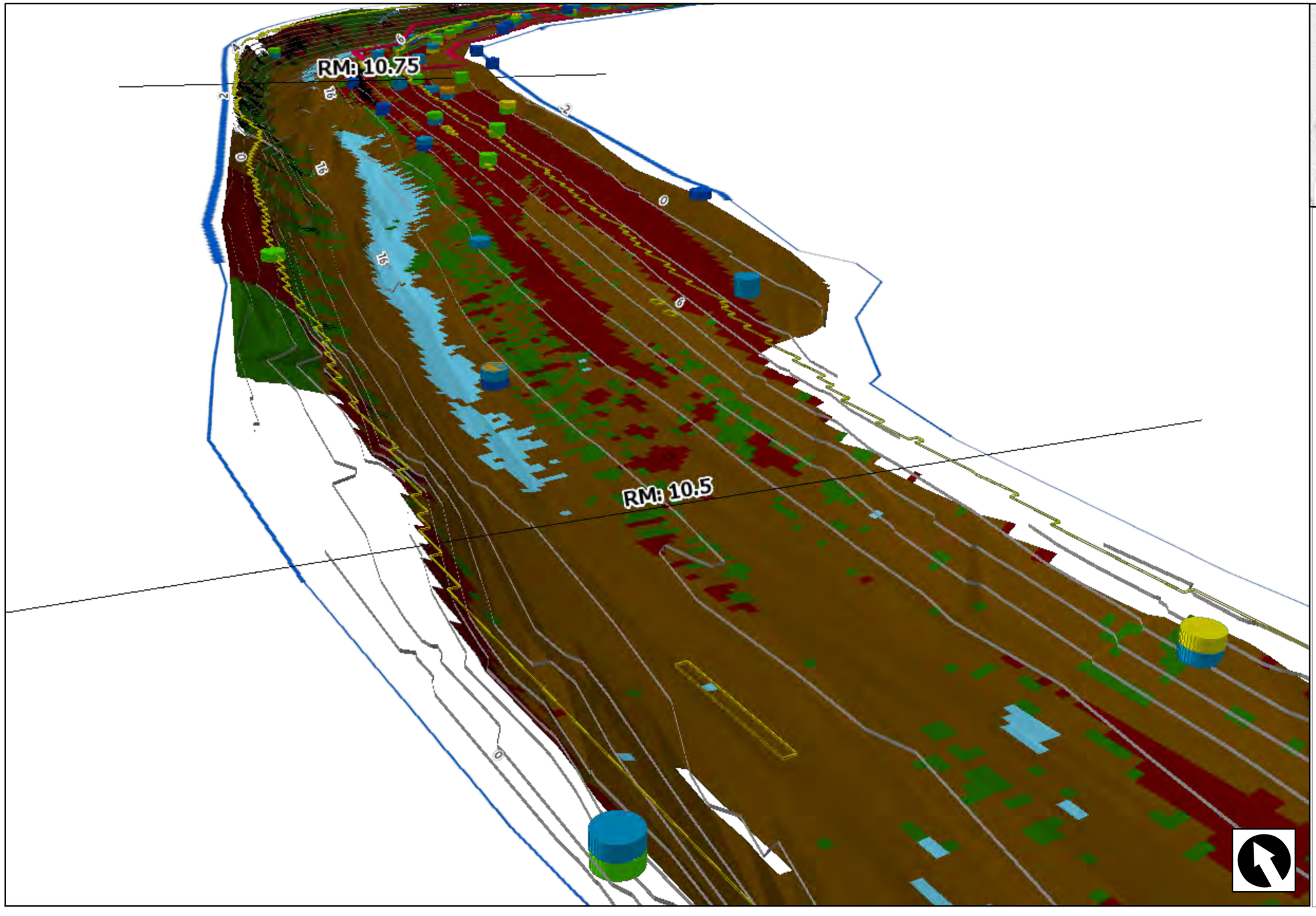
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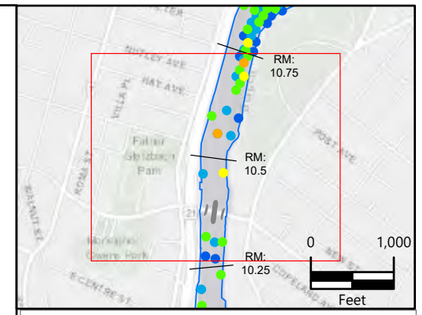
Figure 4-3b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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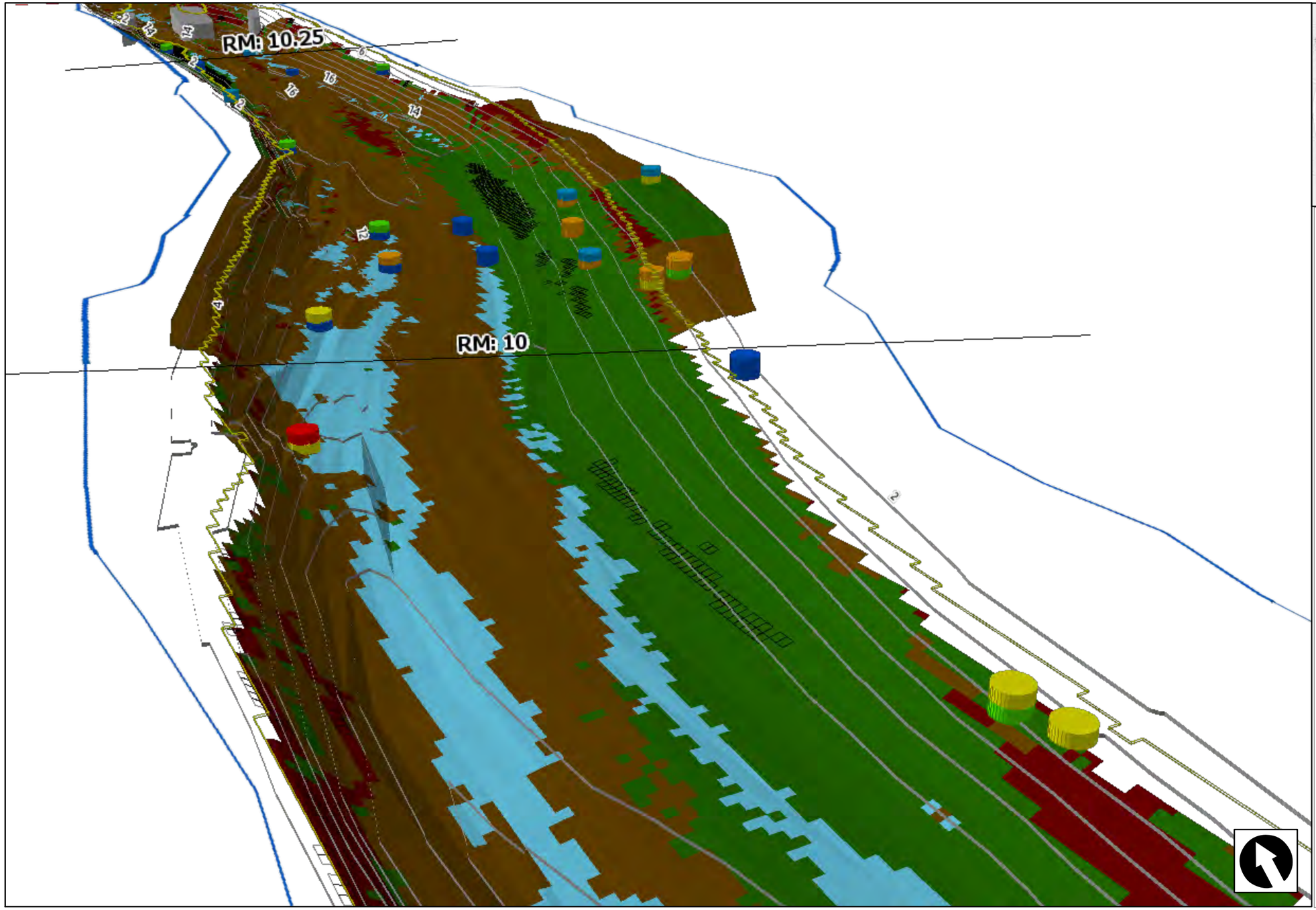
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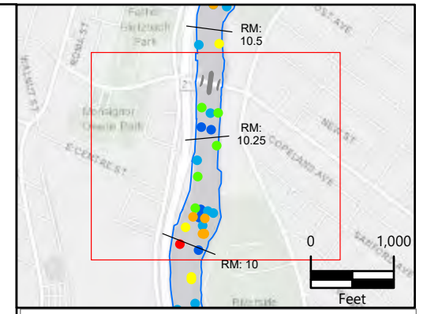
Figure 4-3c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
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- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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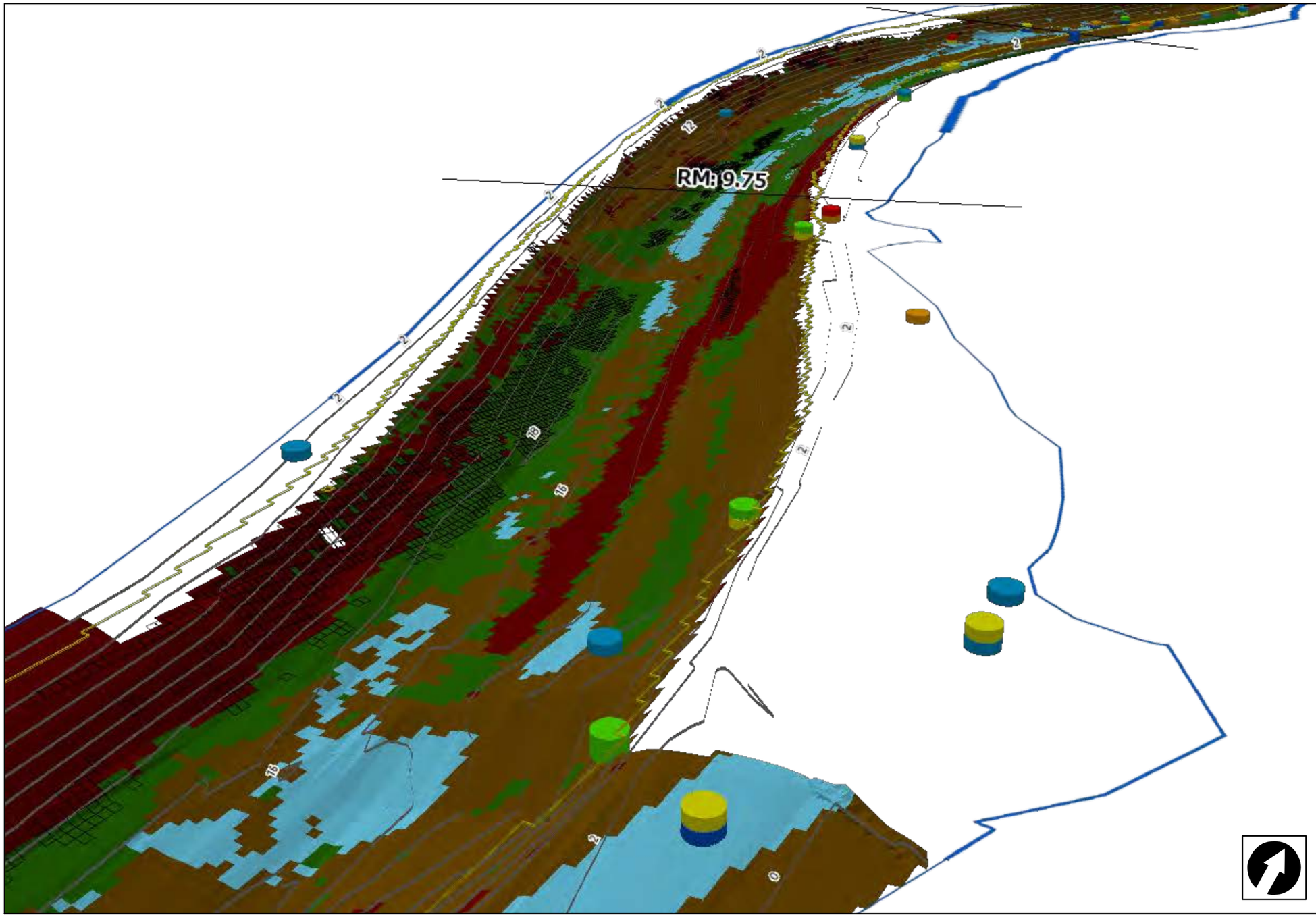
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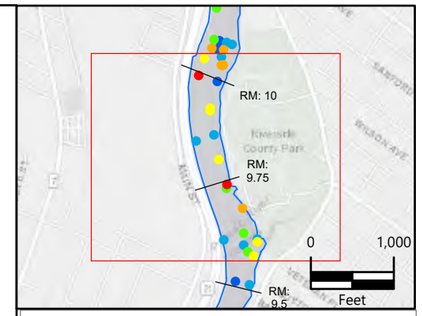
Figure 4-4a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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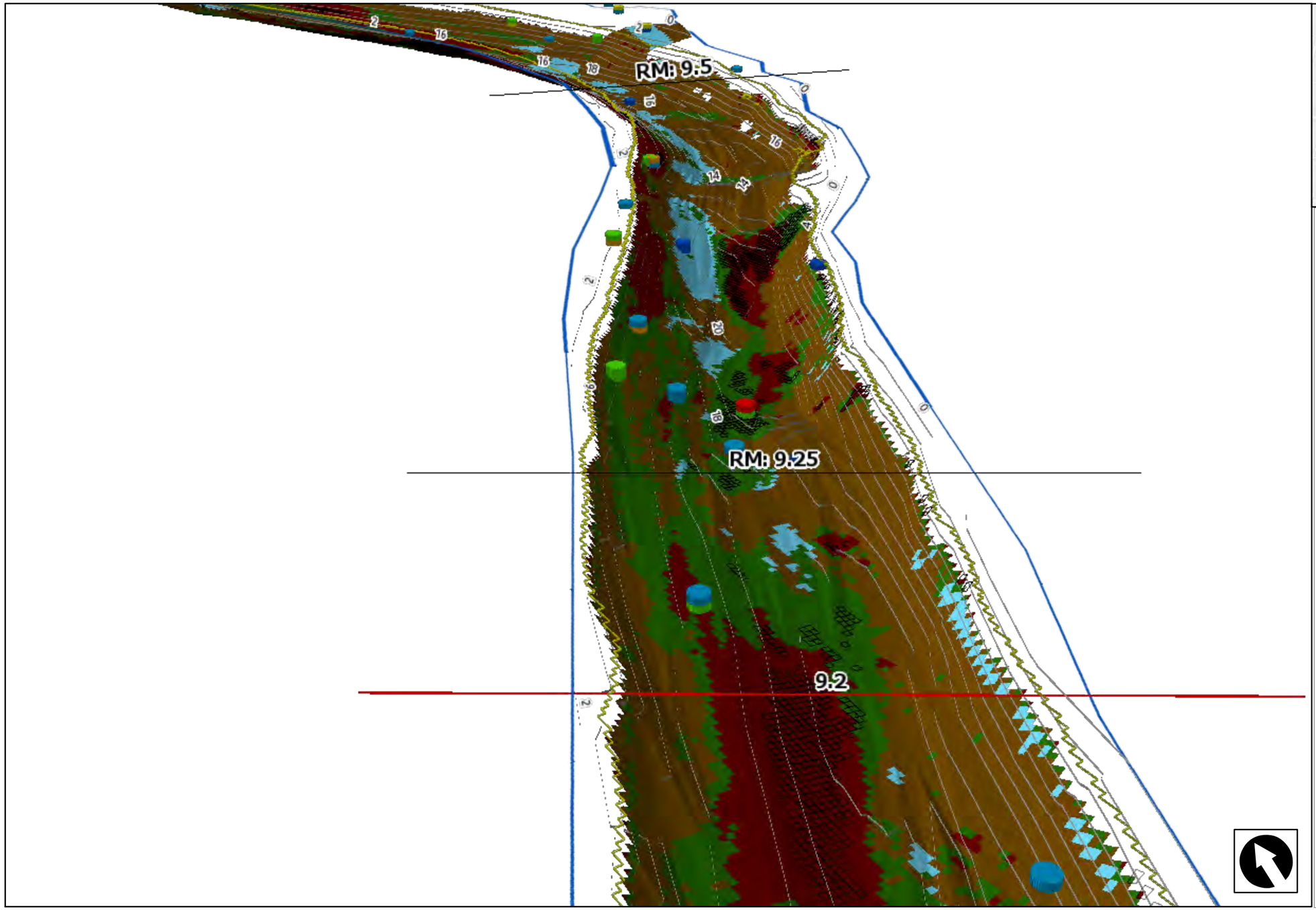
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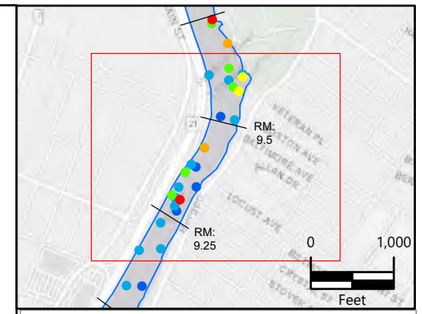
Figure 4-4b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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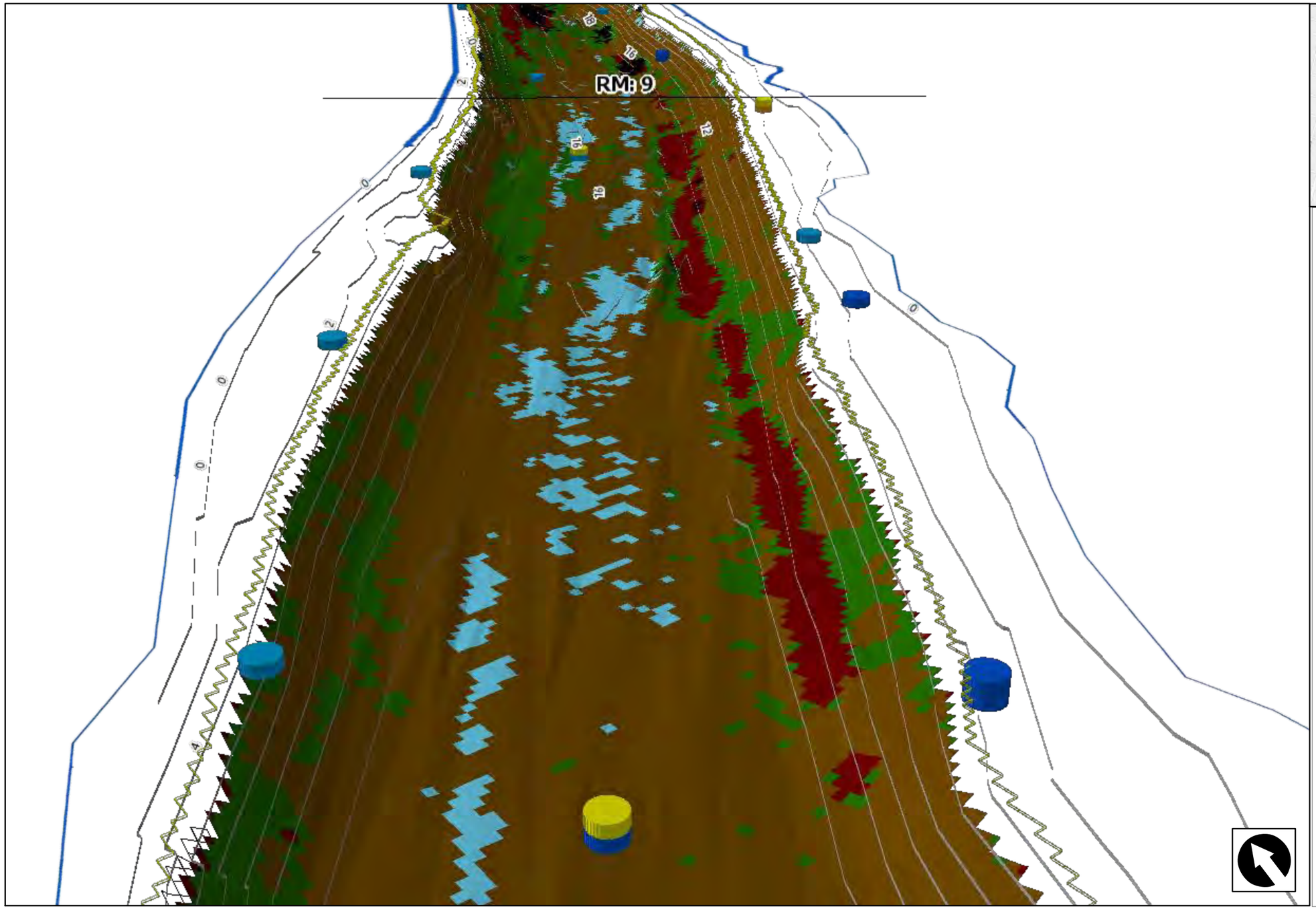
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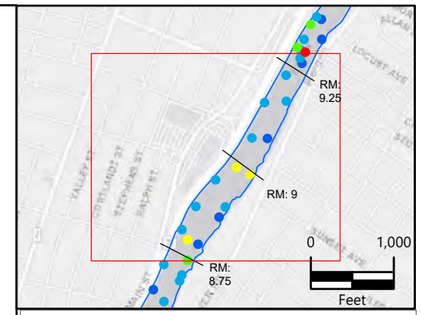
Figure 4-4c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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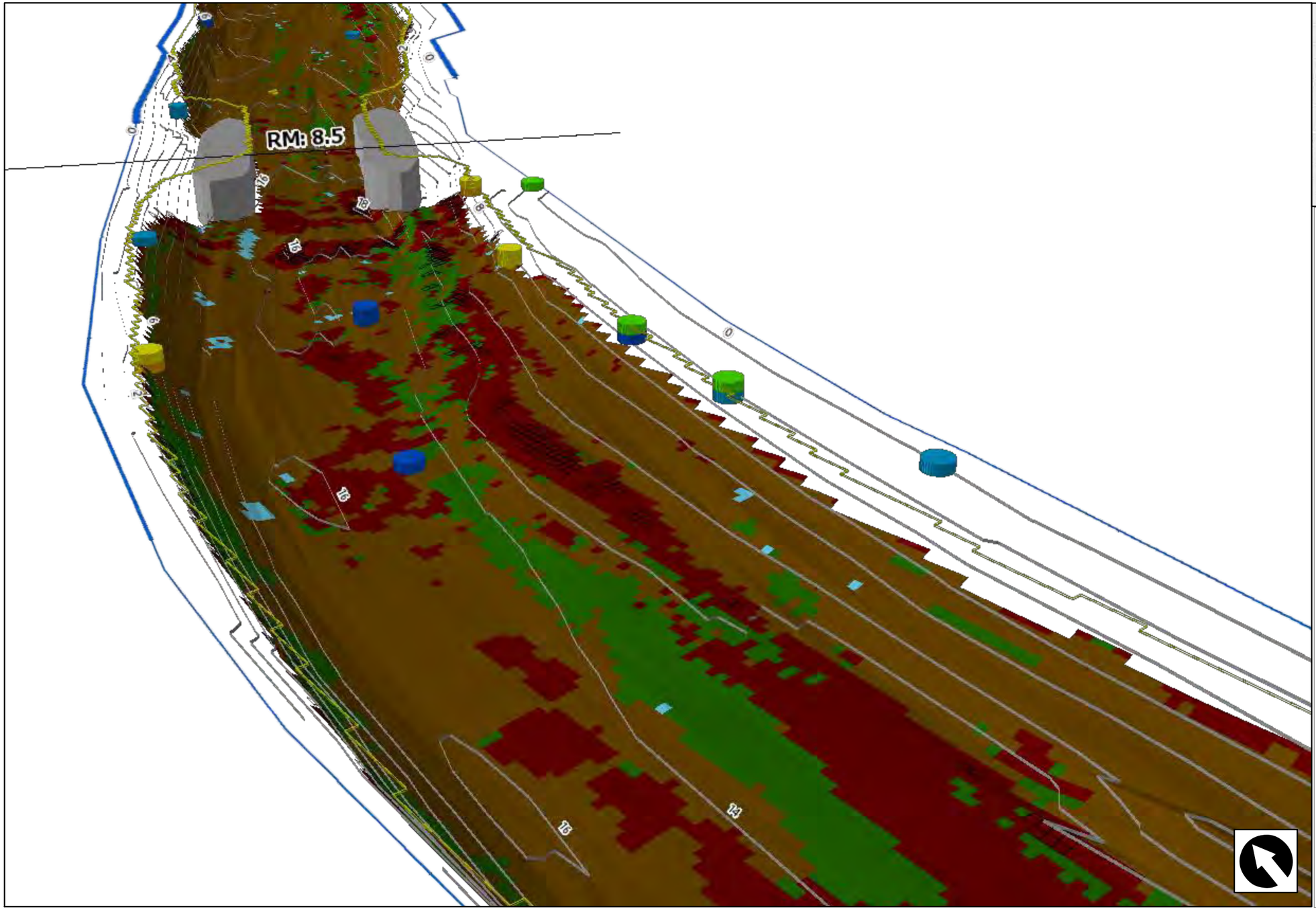
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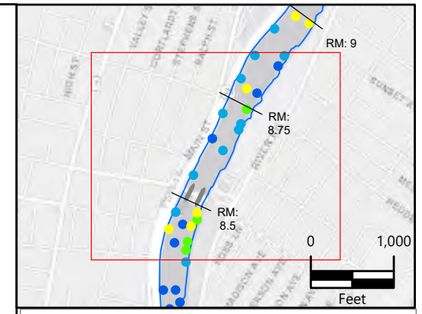
Figure 4-5a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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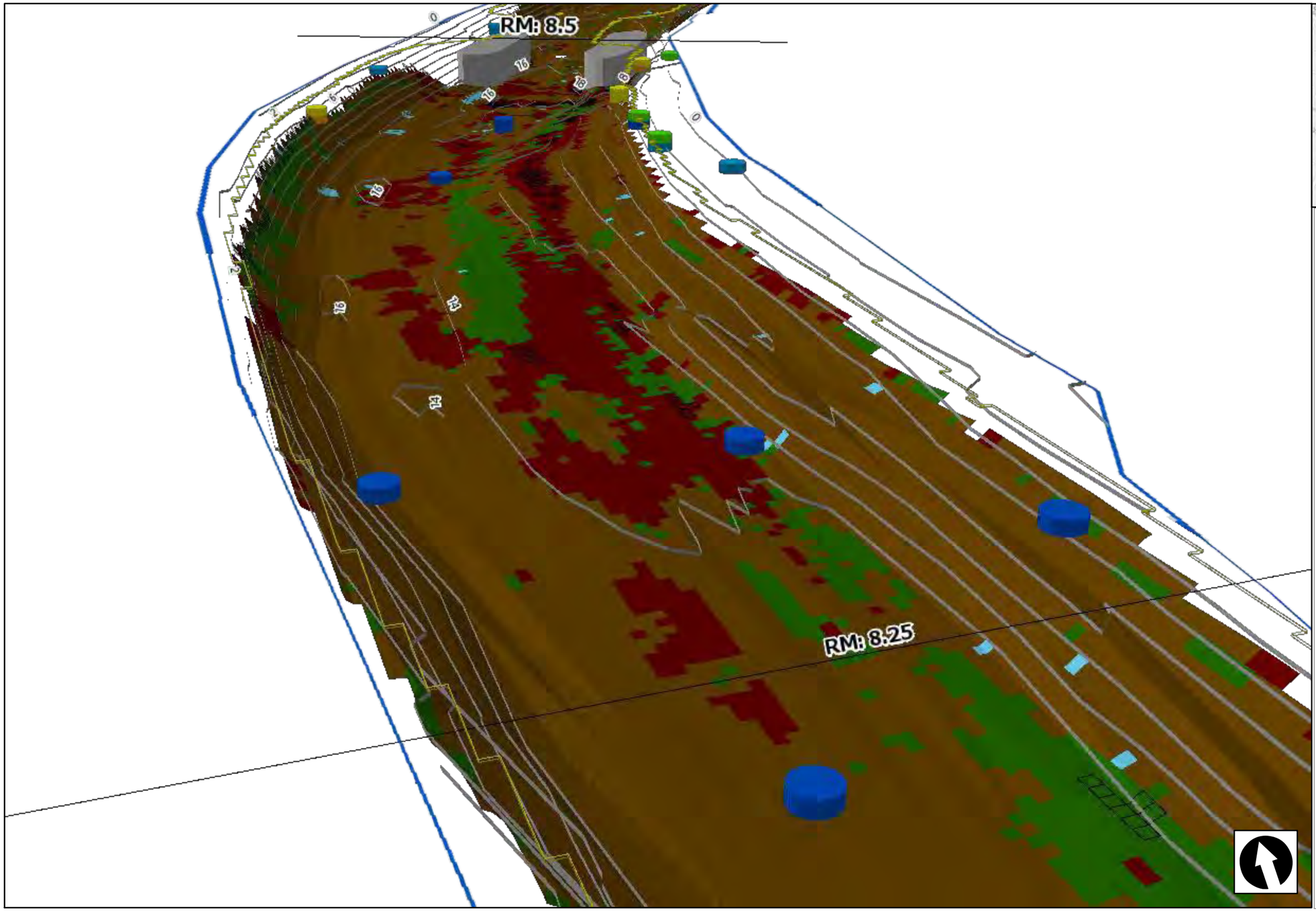
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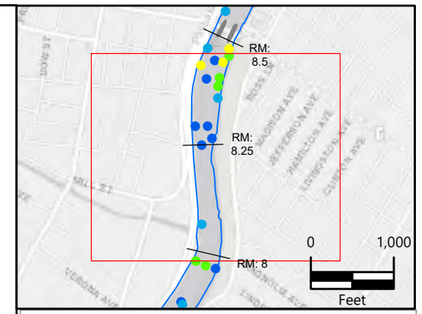
Figure 4-5b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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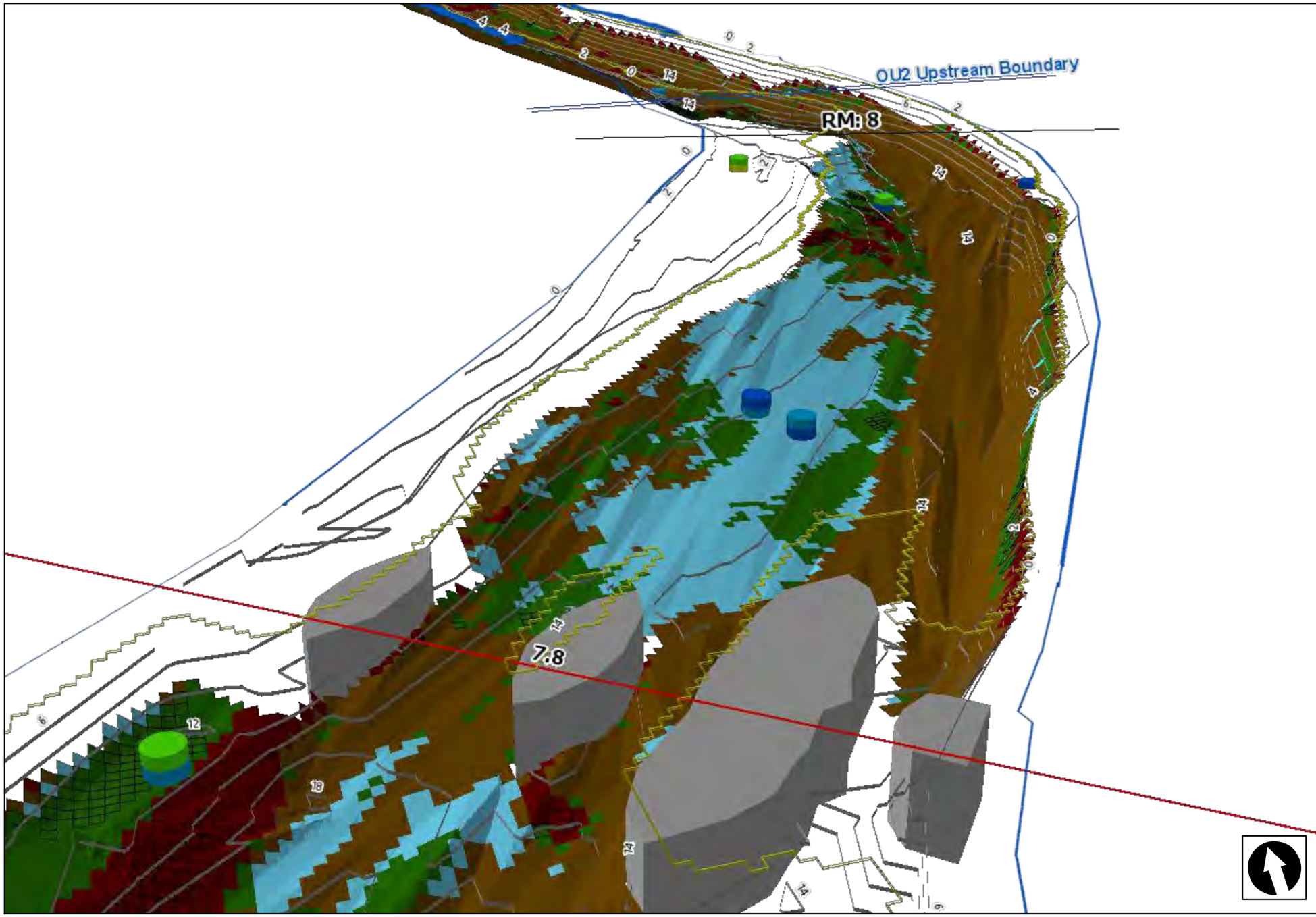
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Figure 4-5c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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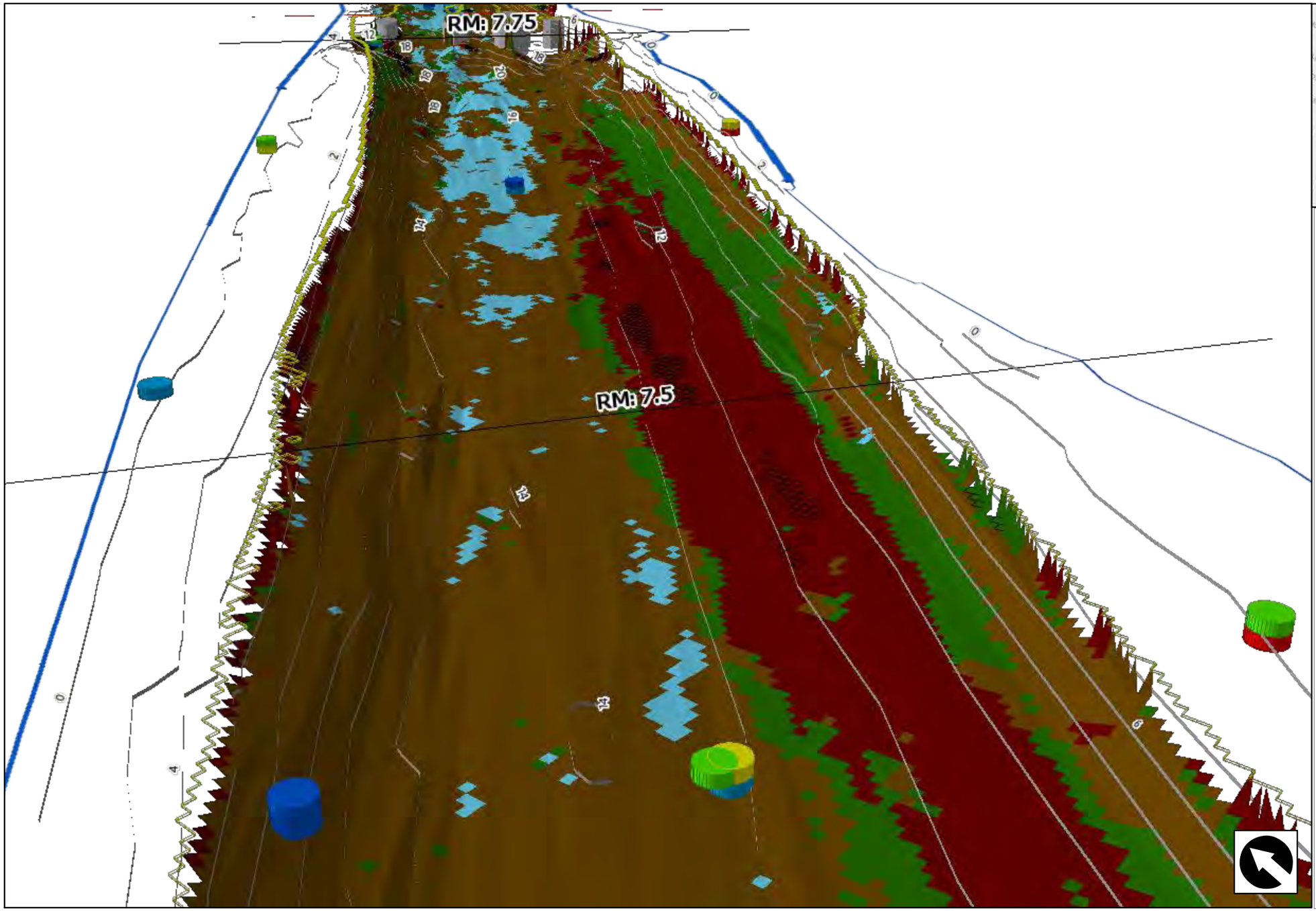
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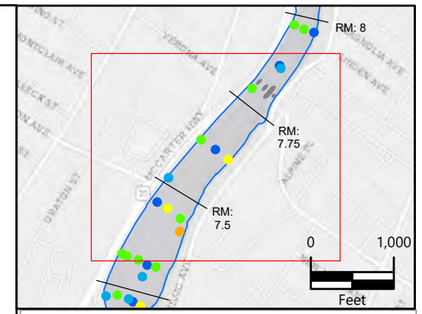
Figure 4-5d

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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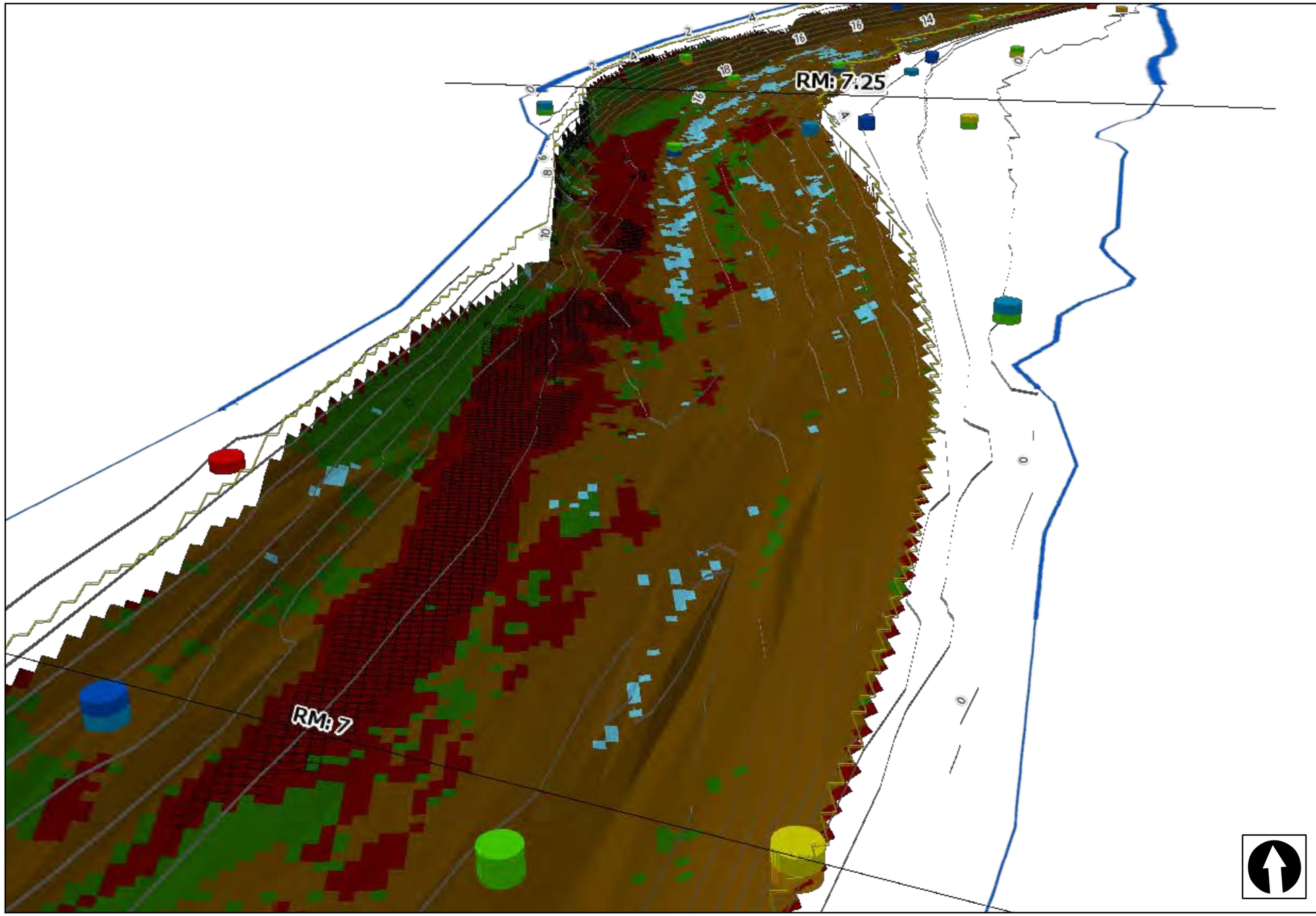
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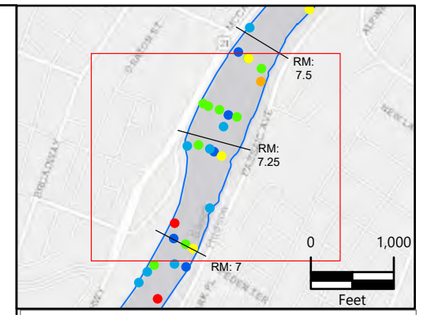
Figure 4-6a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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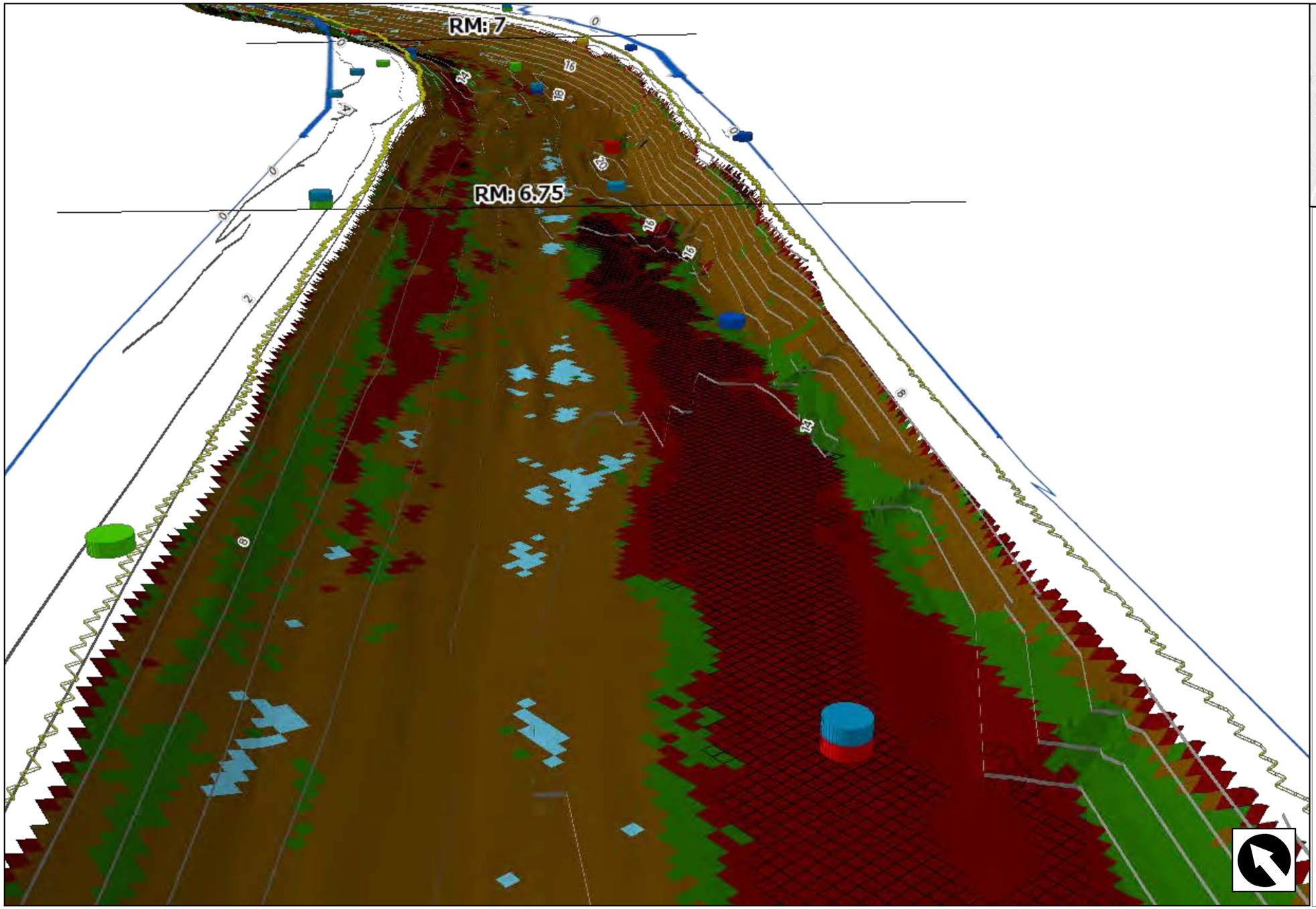
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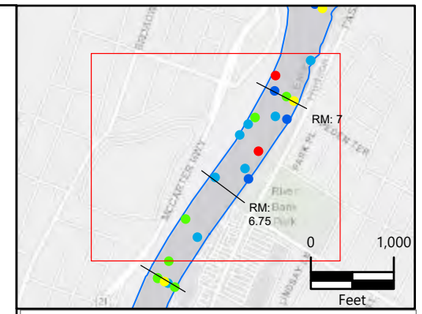
Figure 4-6b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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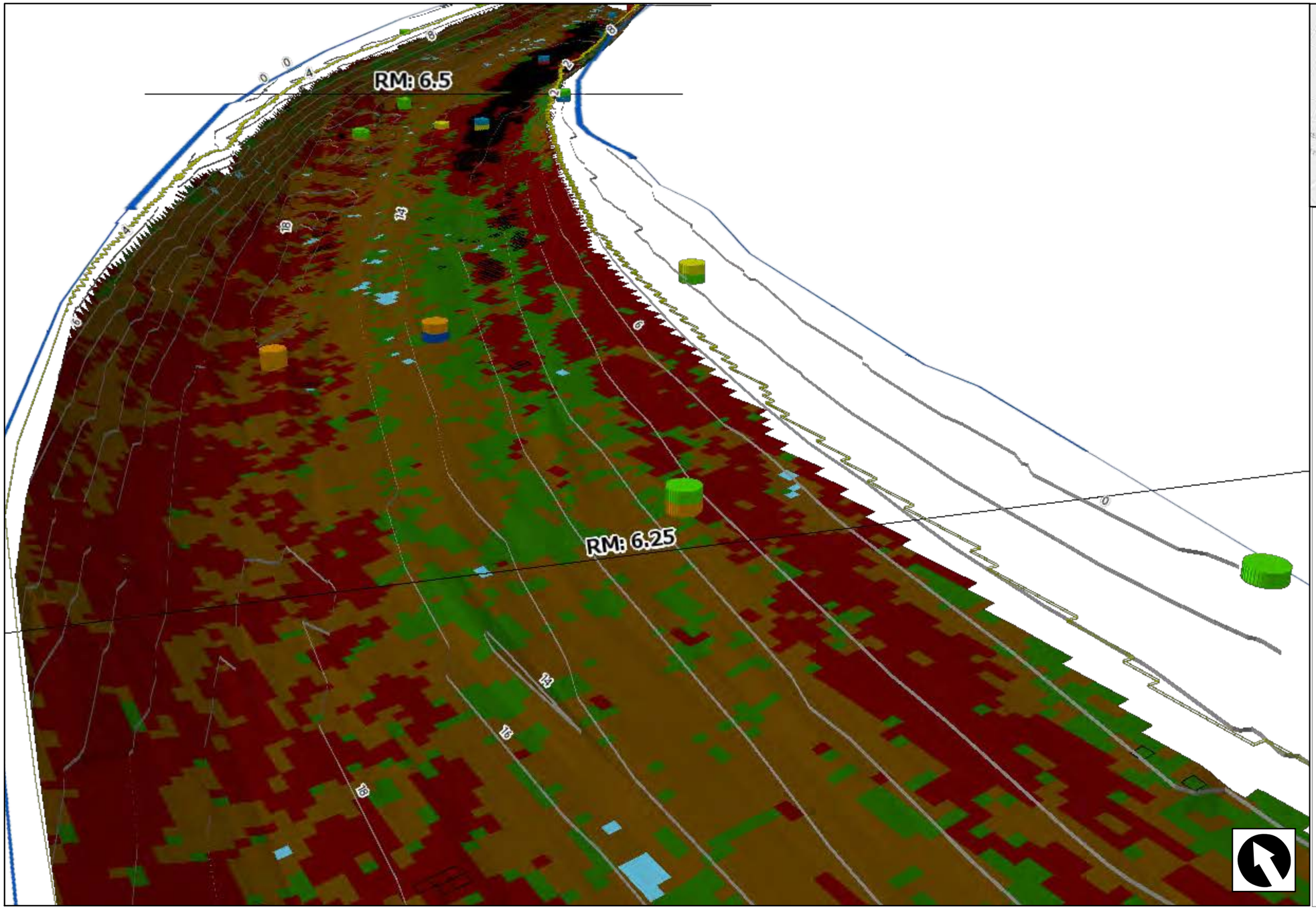
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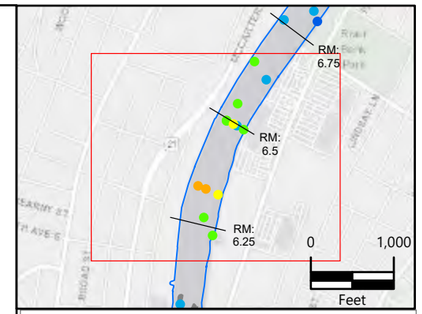
Figure 4-6c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 40
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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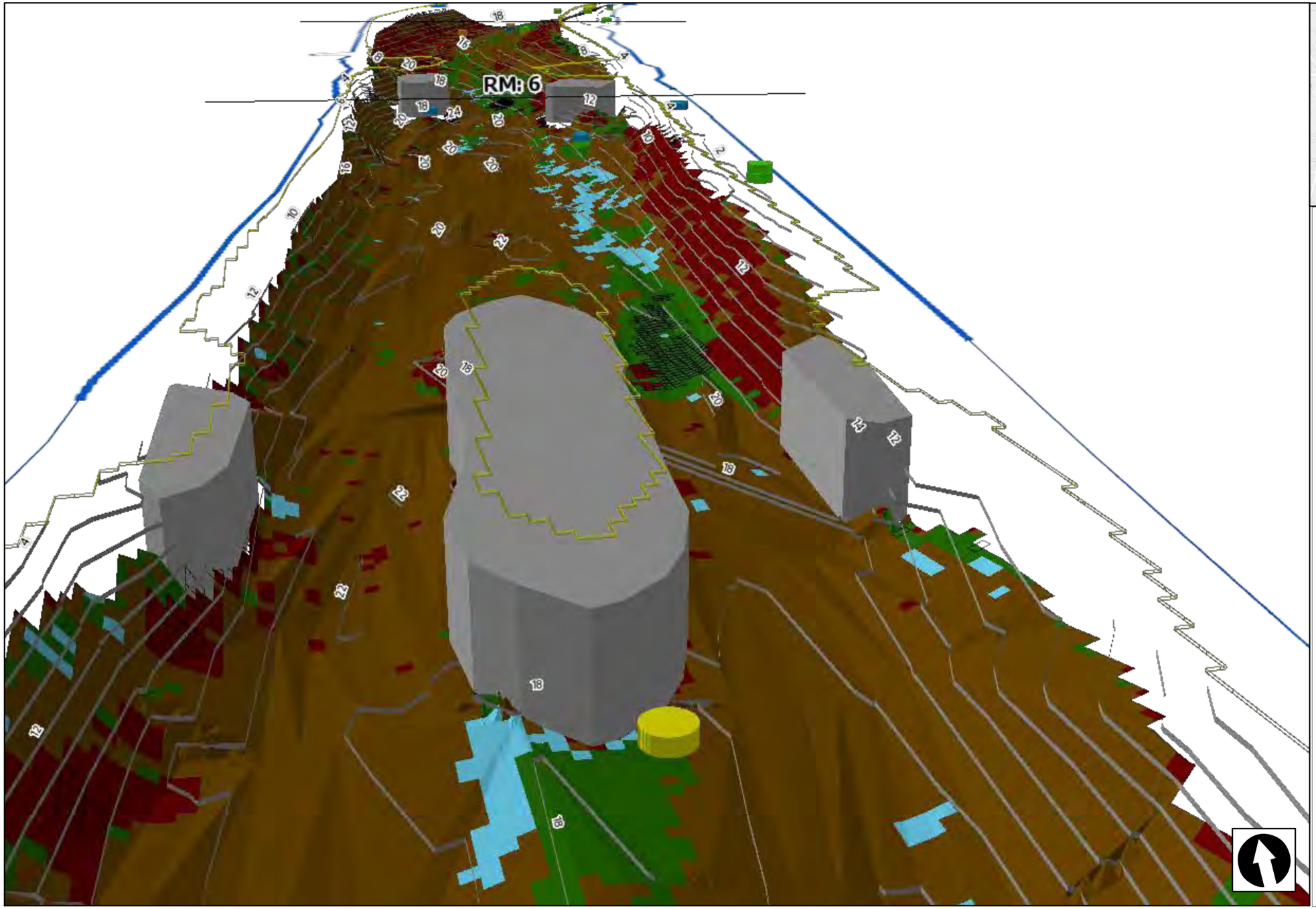
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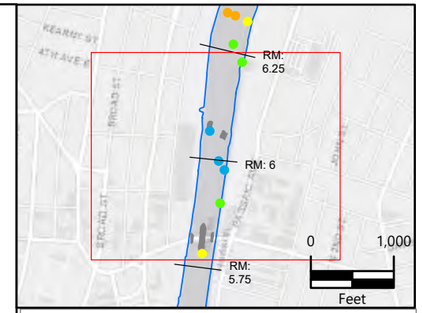
Figure 4-6d

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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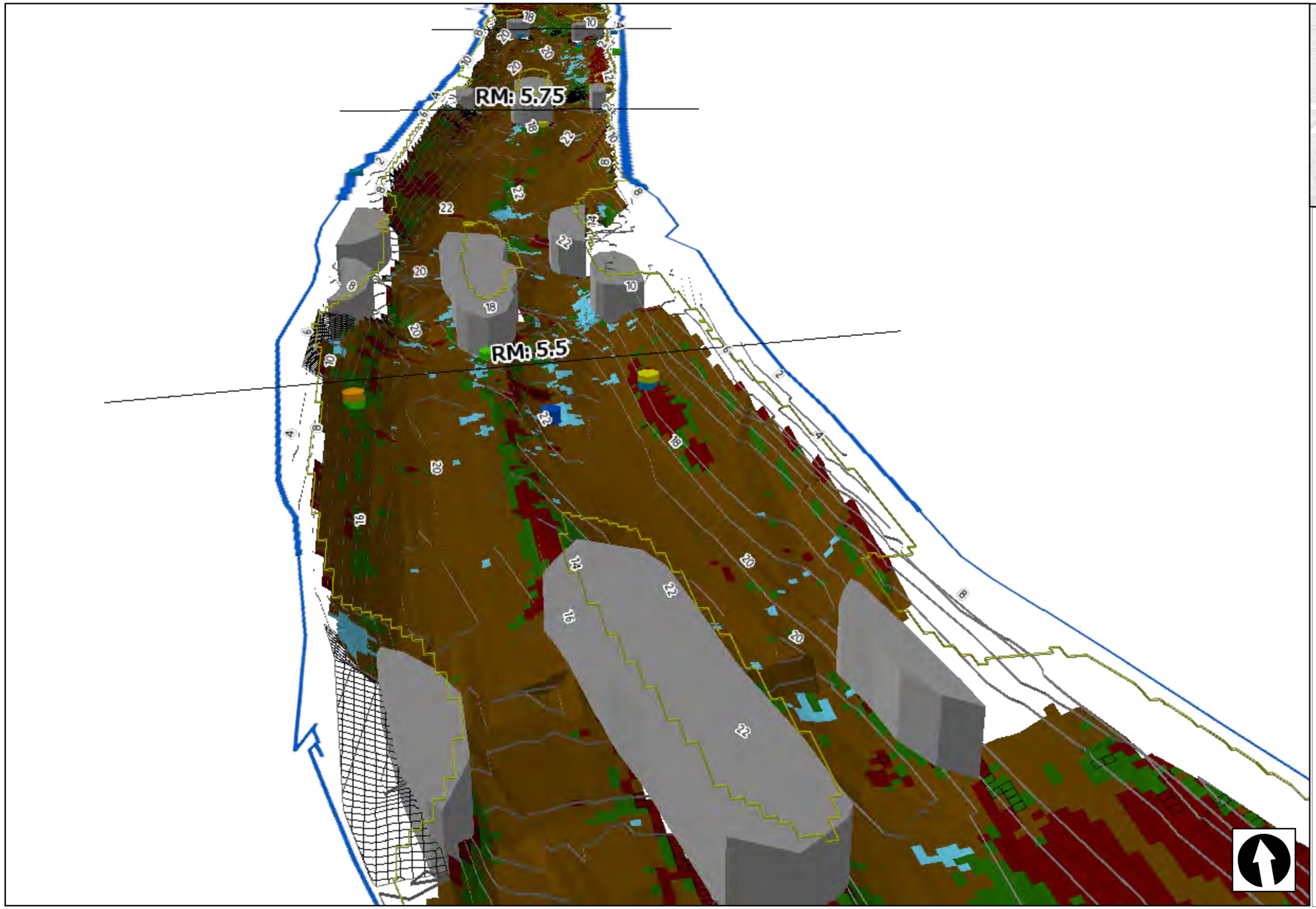
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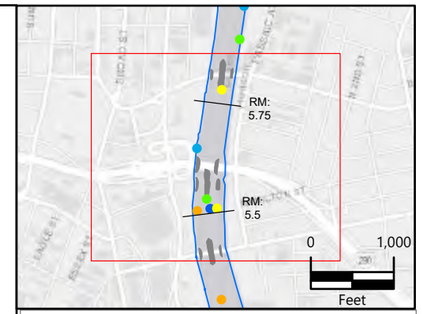
Figure 4-6e

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
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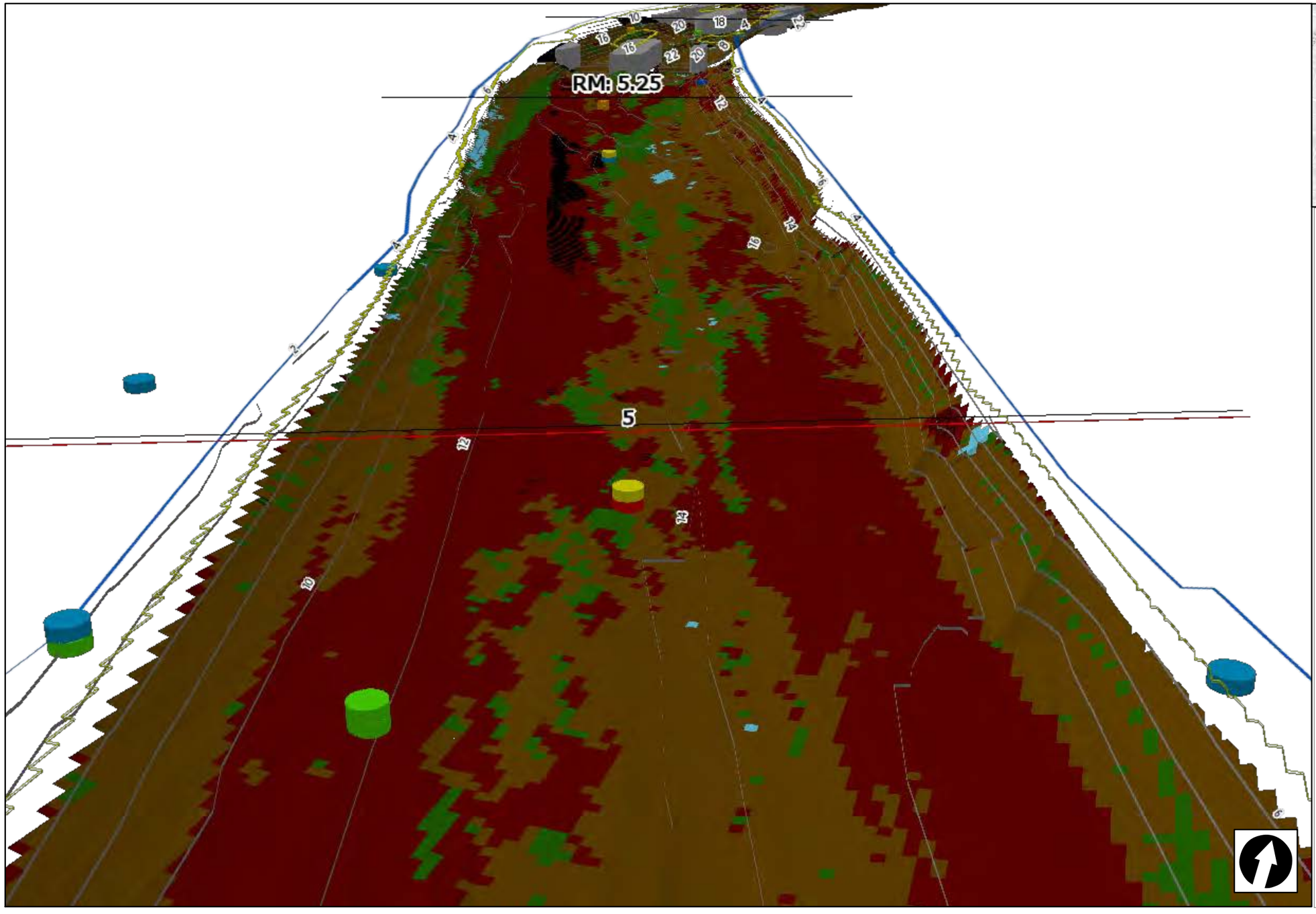
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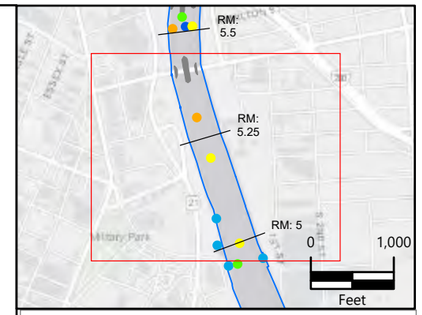
Figure 4-6f

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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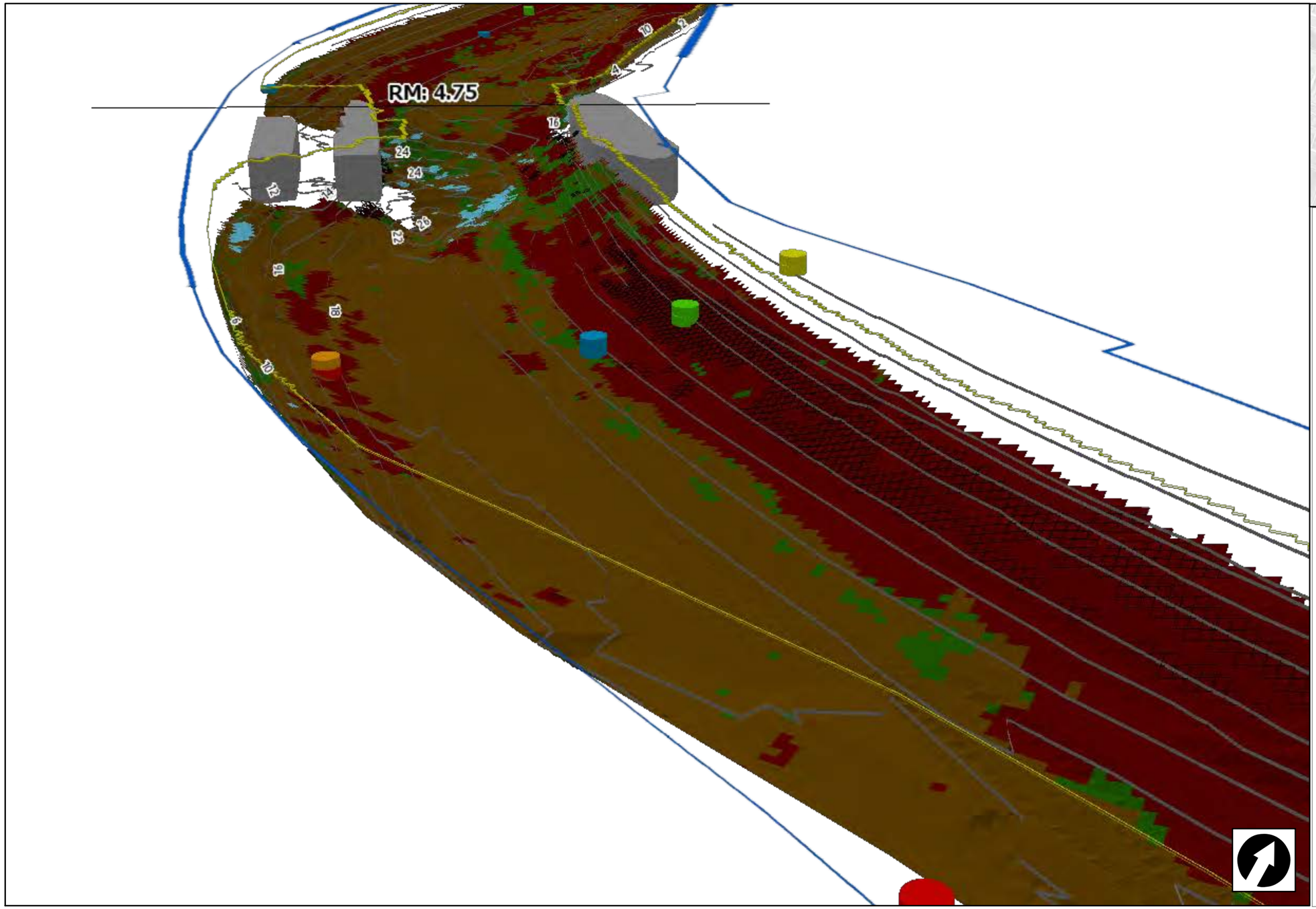
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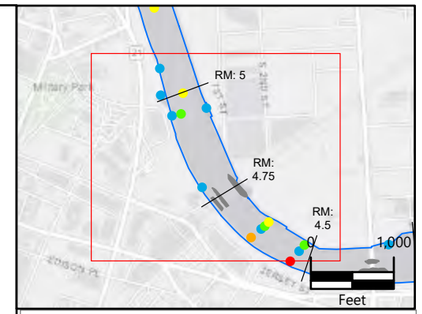
Figure 4-6g

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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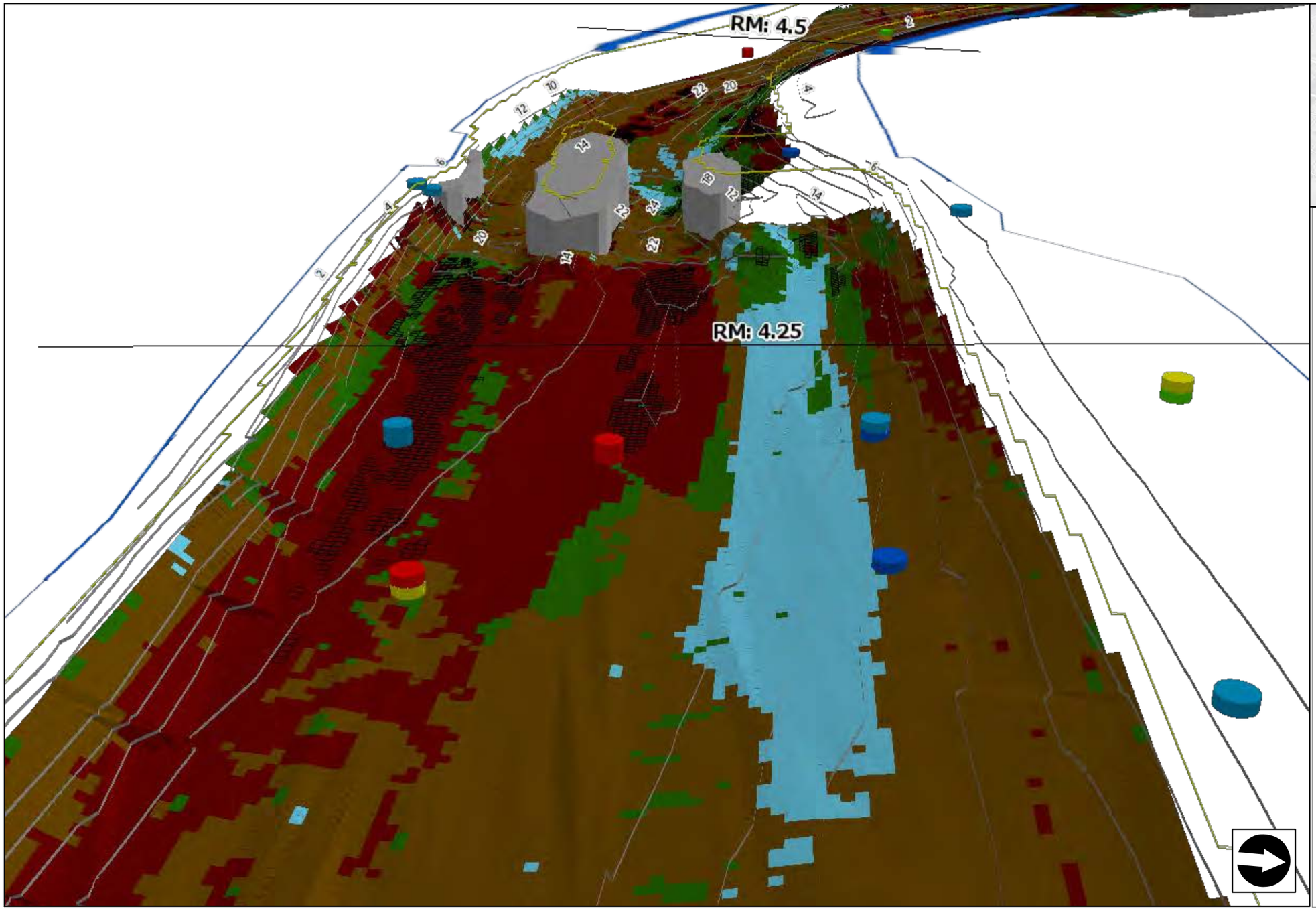
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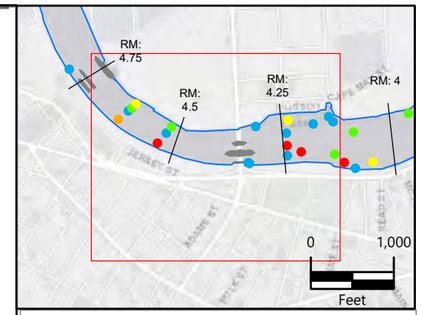
Figure 4-7a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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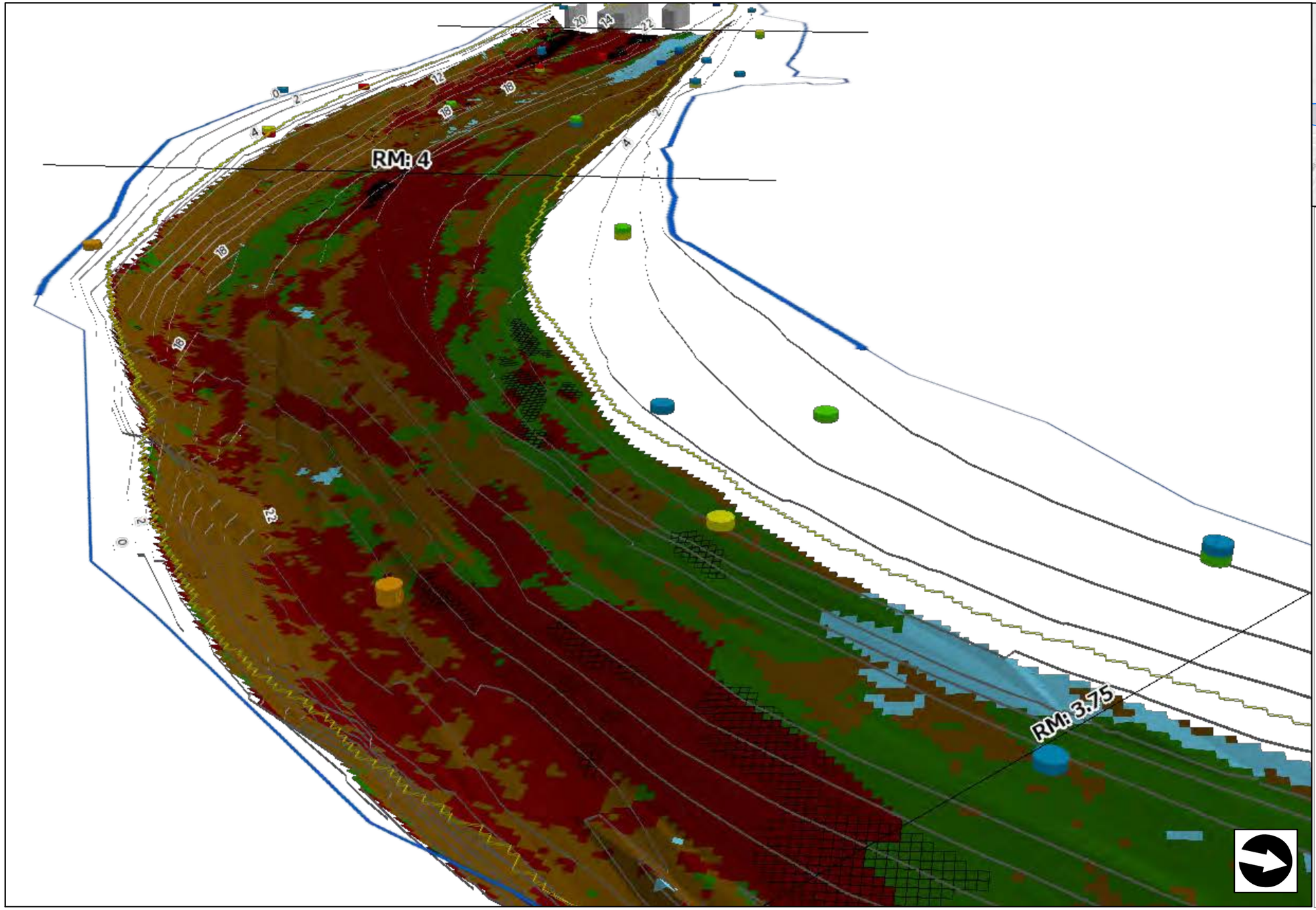
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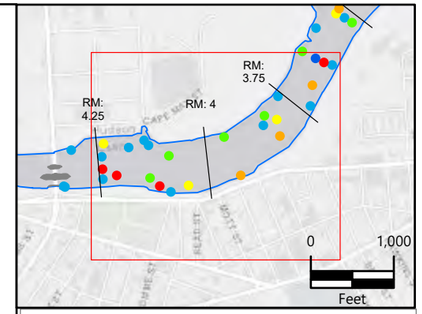
Figure 4-7b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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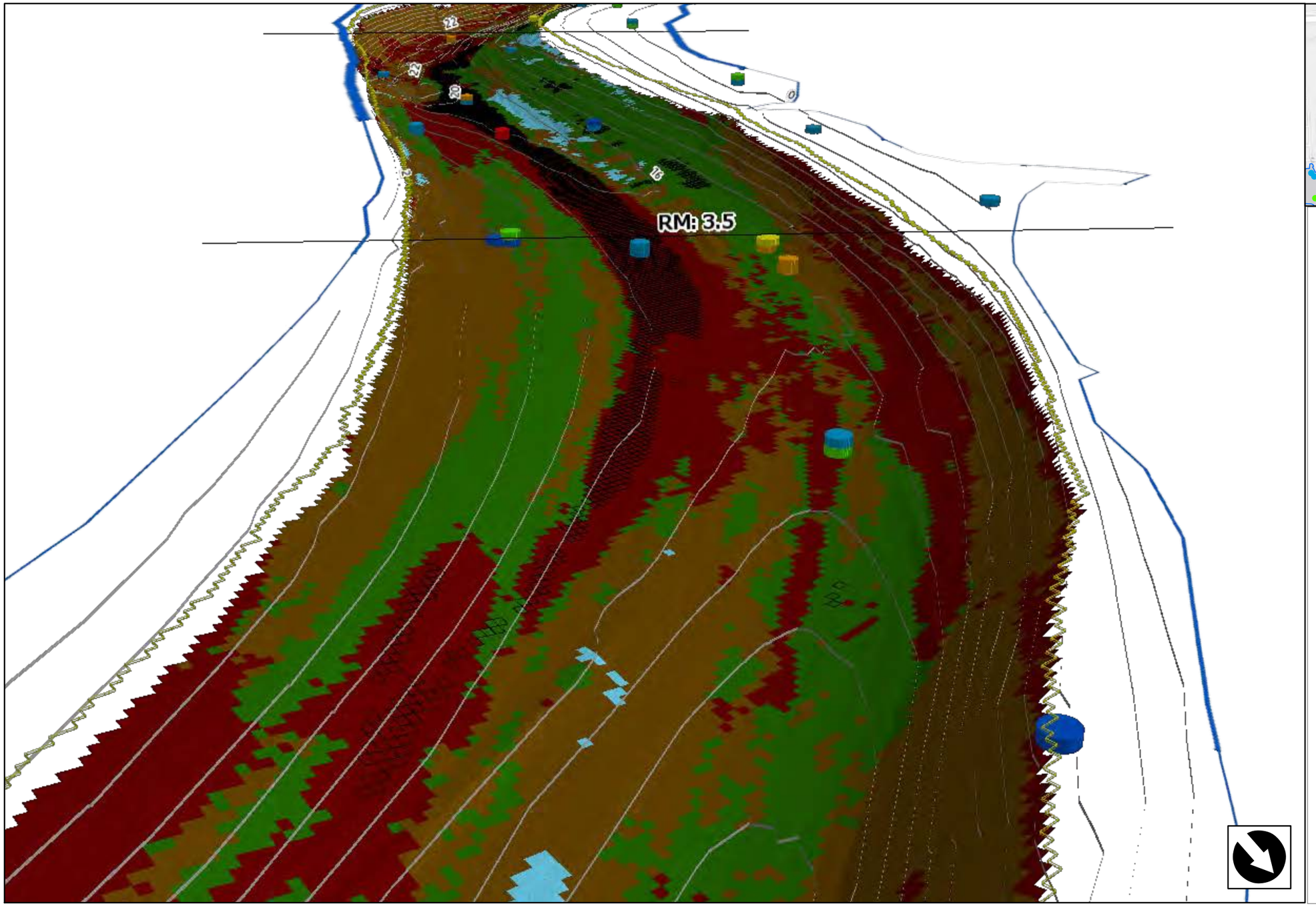
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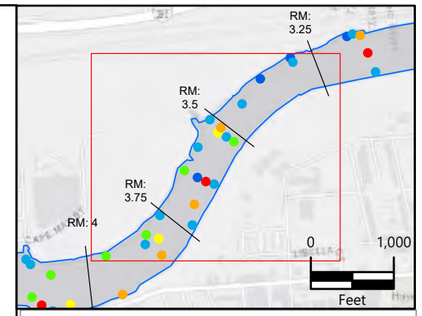
Figure 4-7c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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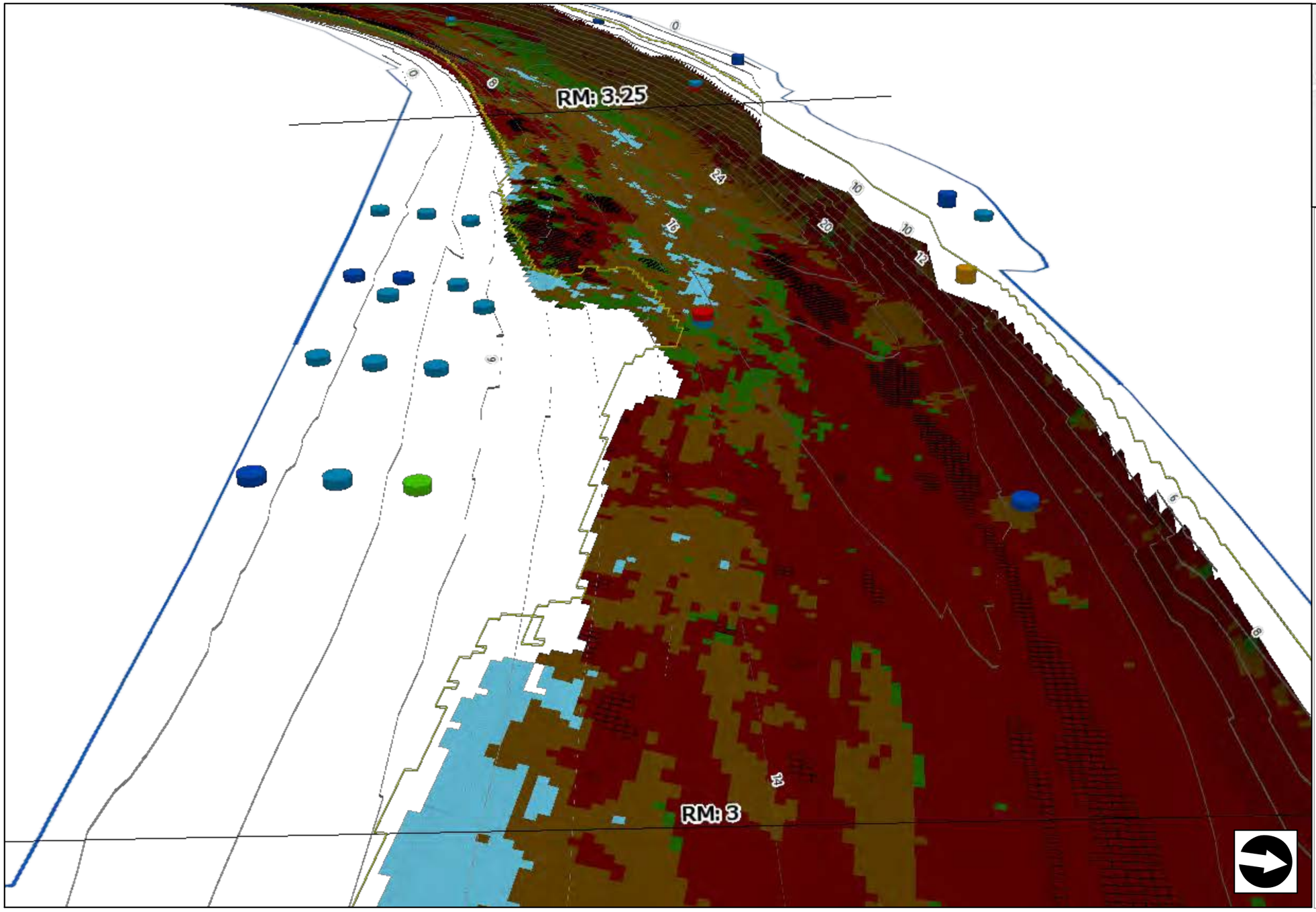
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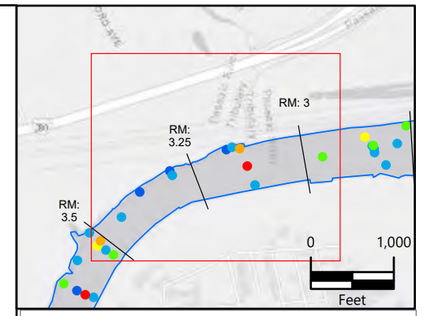
Figure 4-7d

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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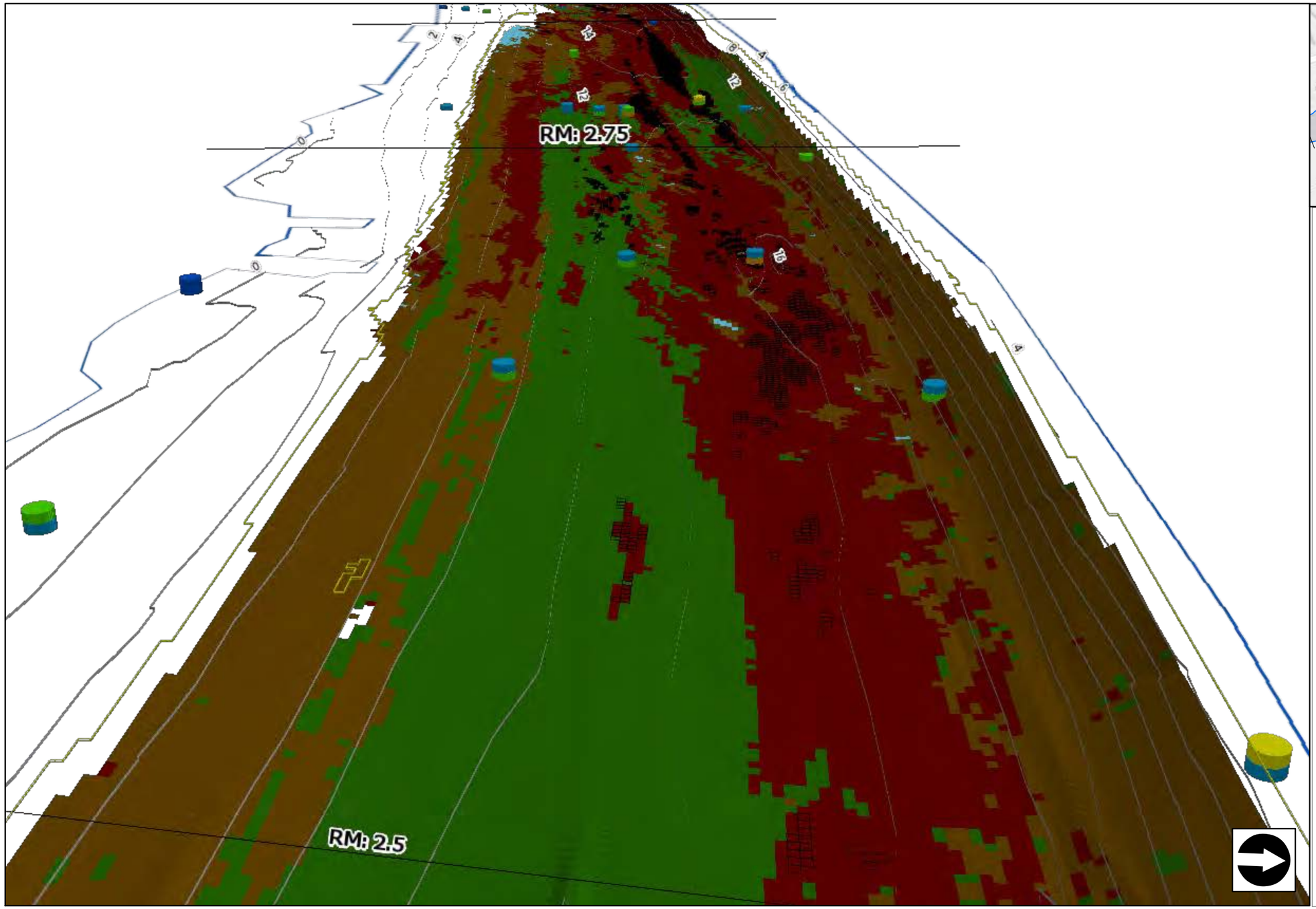
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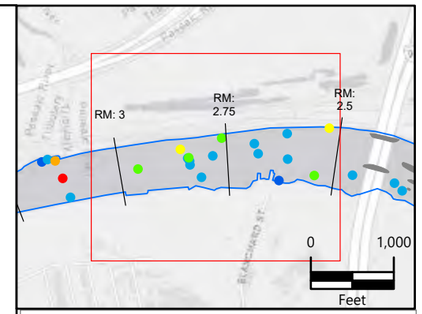
Figure 4-7e

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

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- Depositional from 2007 to 2012
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NOTES:
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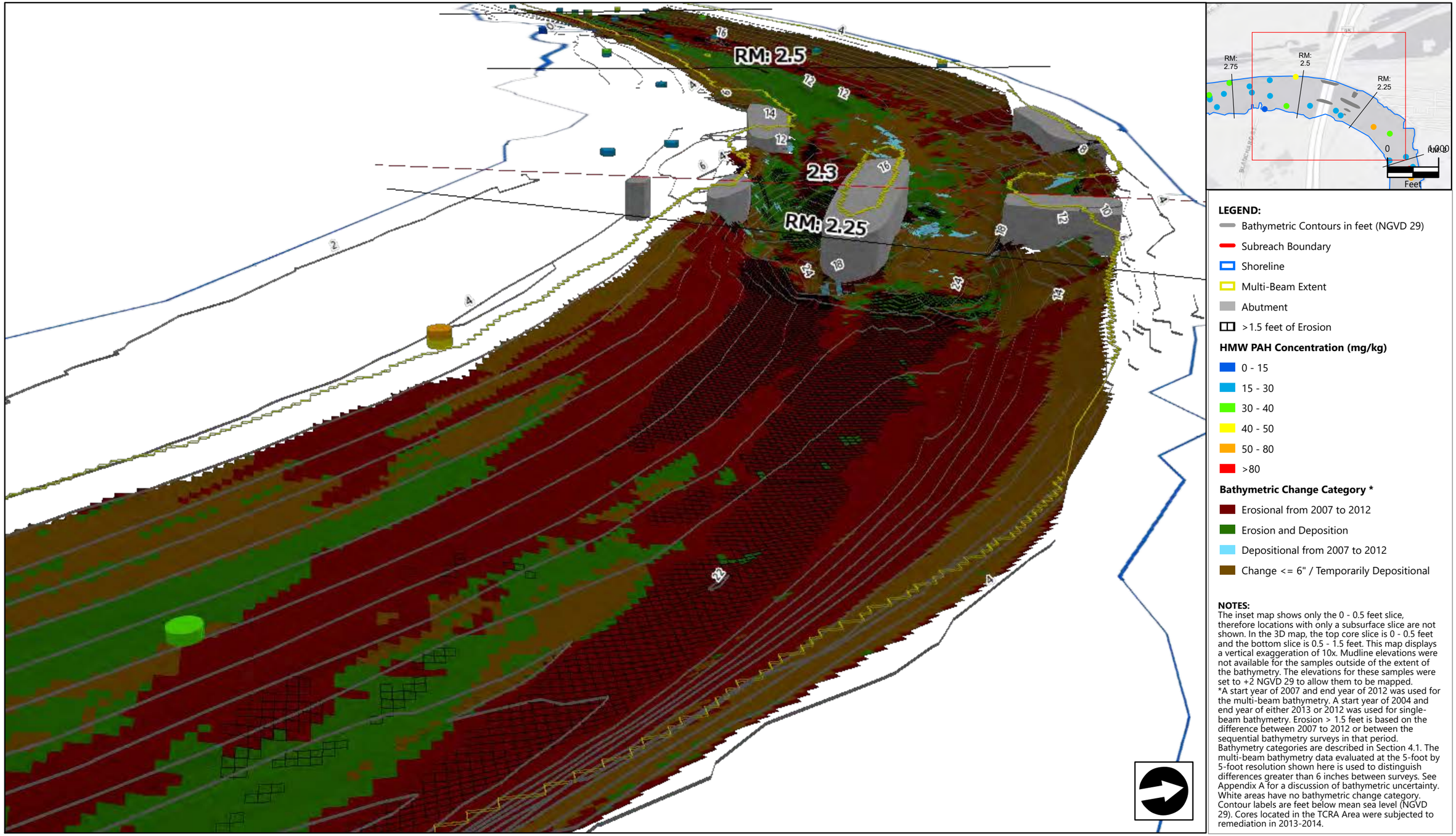
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Figure 4-7f

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
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- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
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- >80

Bathymetric Change Category *

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- Depositional from 2007 to 2012
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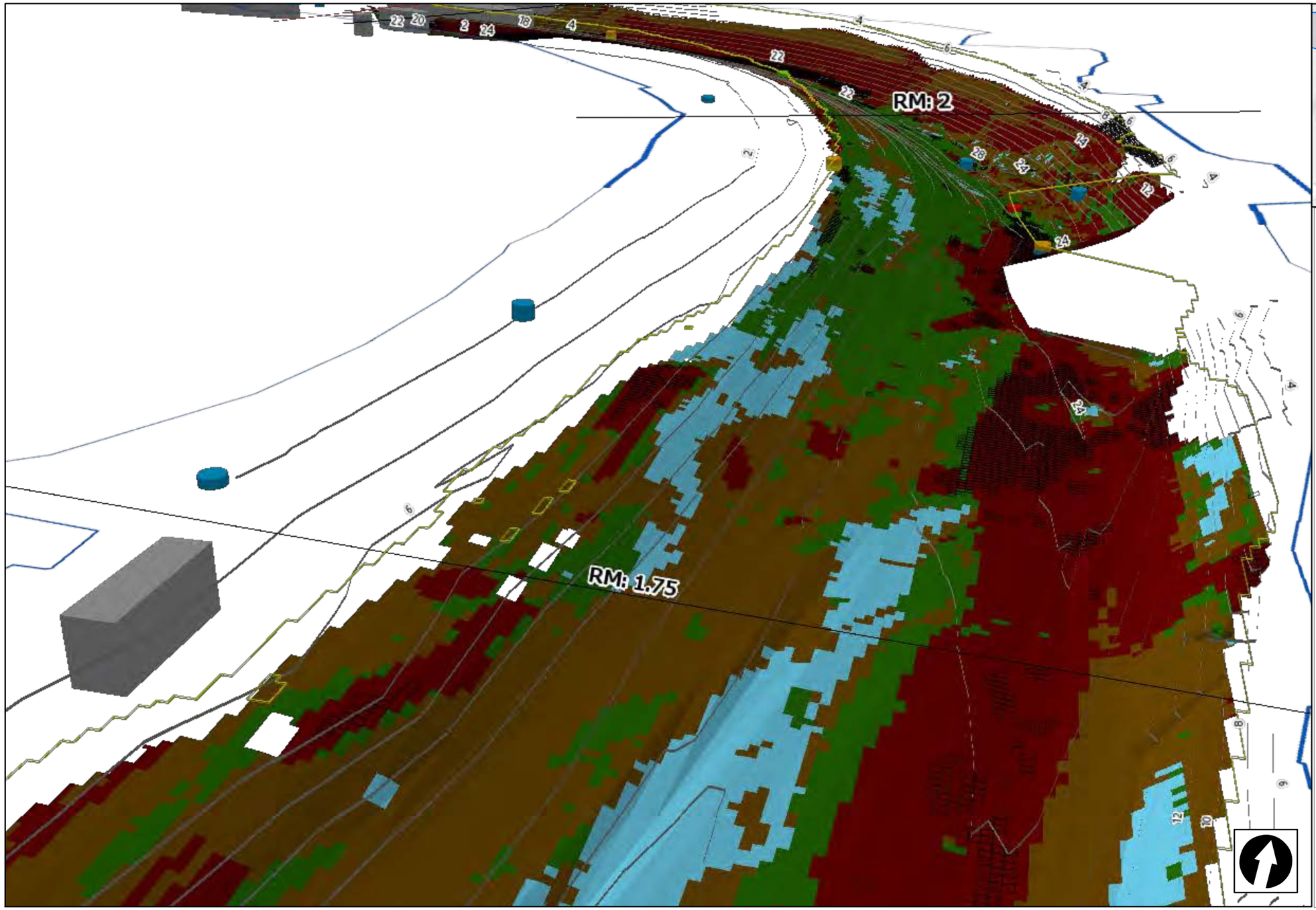
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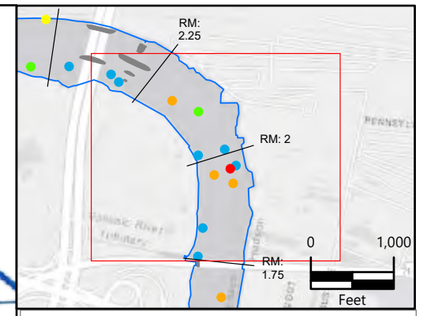
Figure 4-7g

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
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Bathymetric Change Category *

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- Depositional from 2007 to 2012
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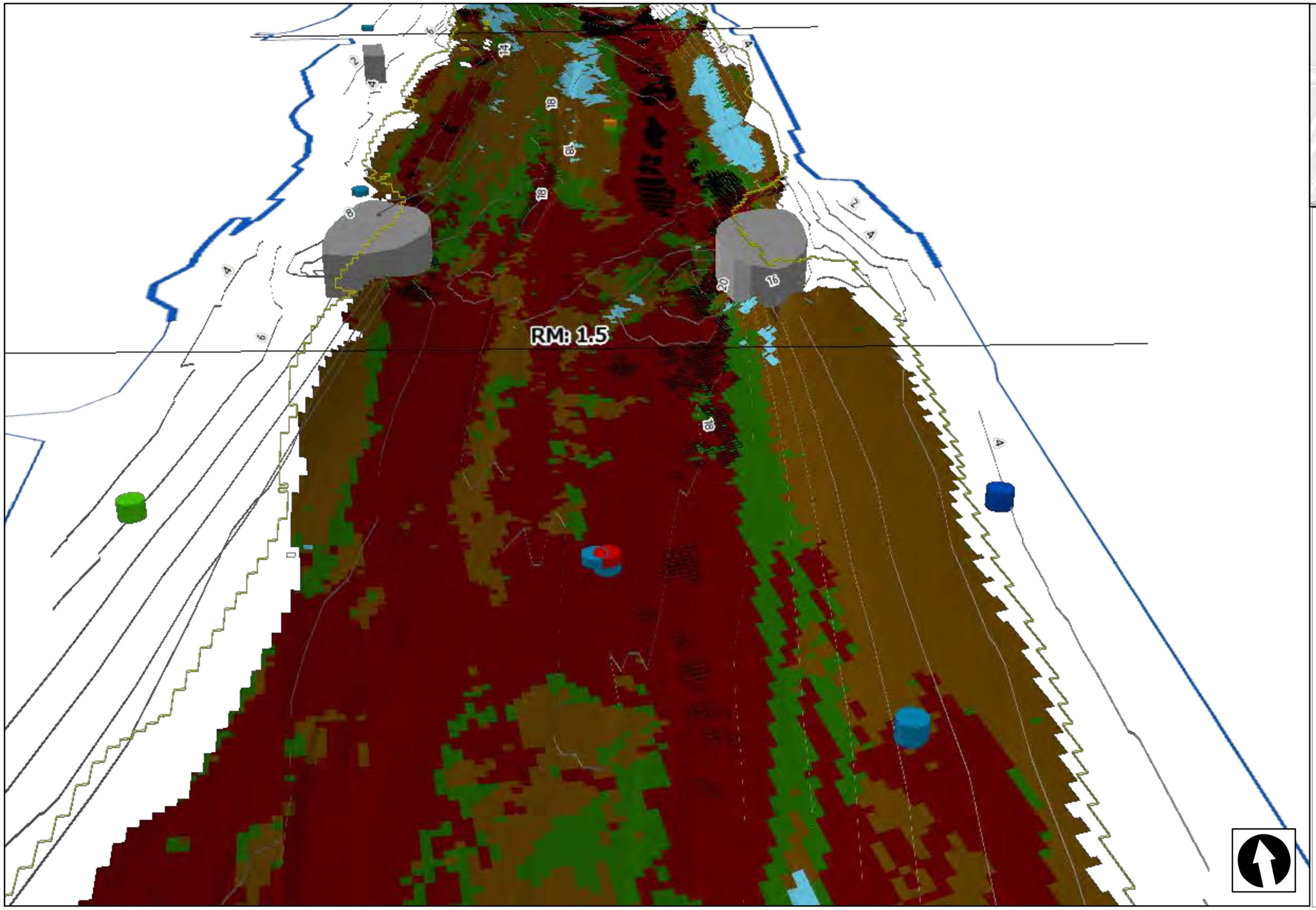
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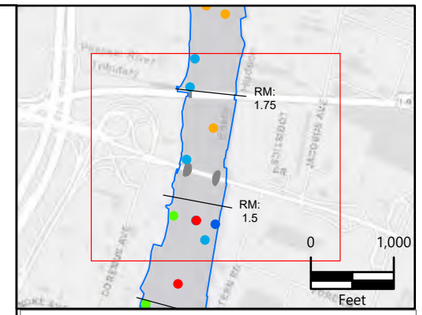
Figure 4-8a

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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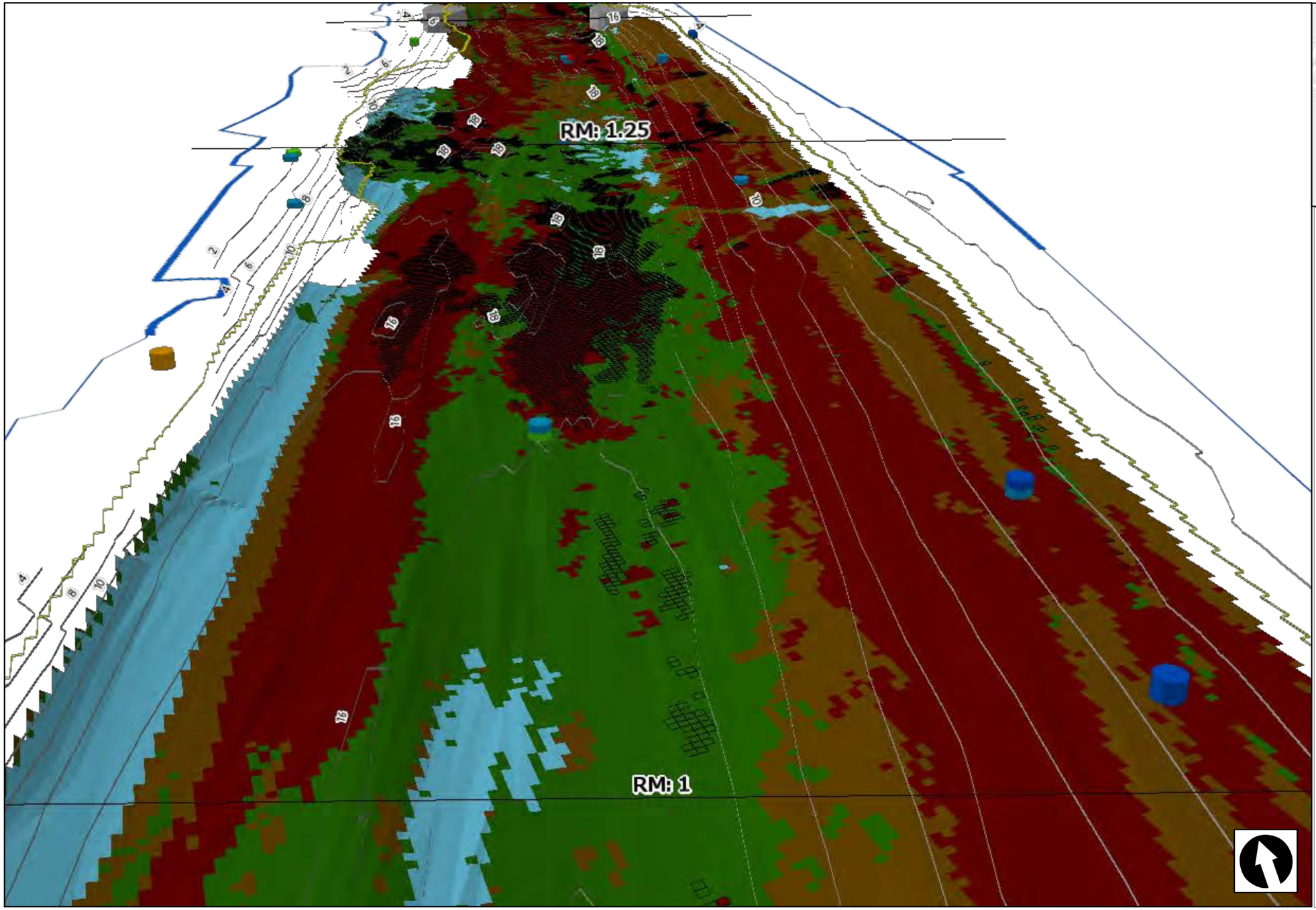
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Figure 4-8b

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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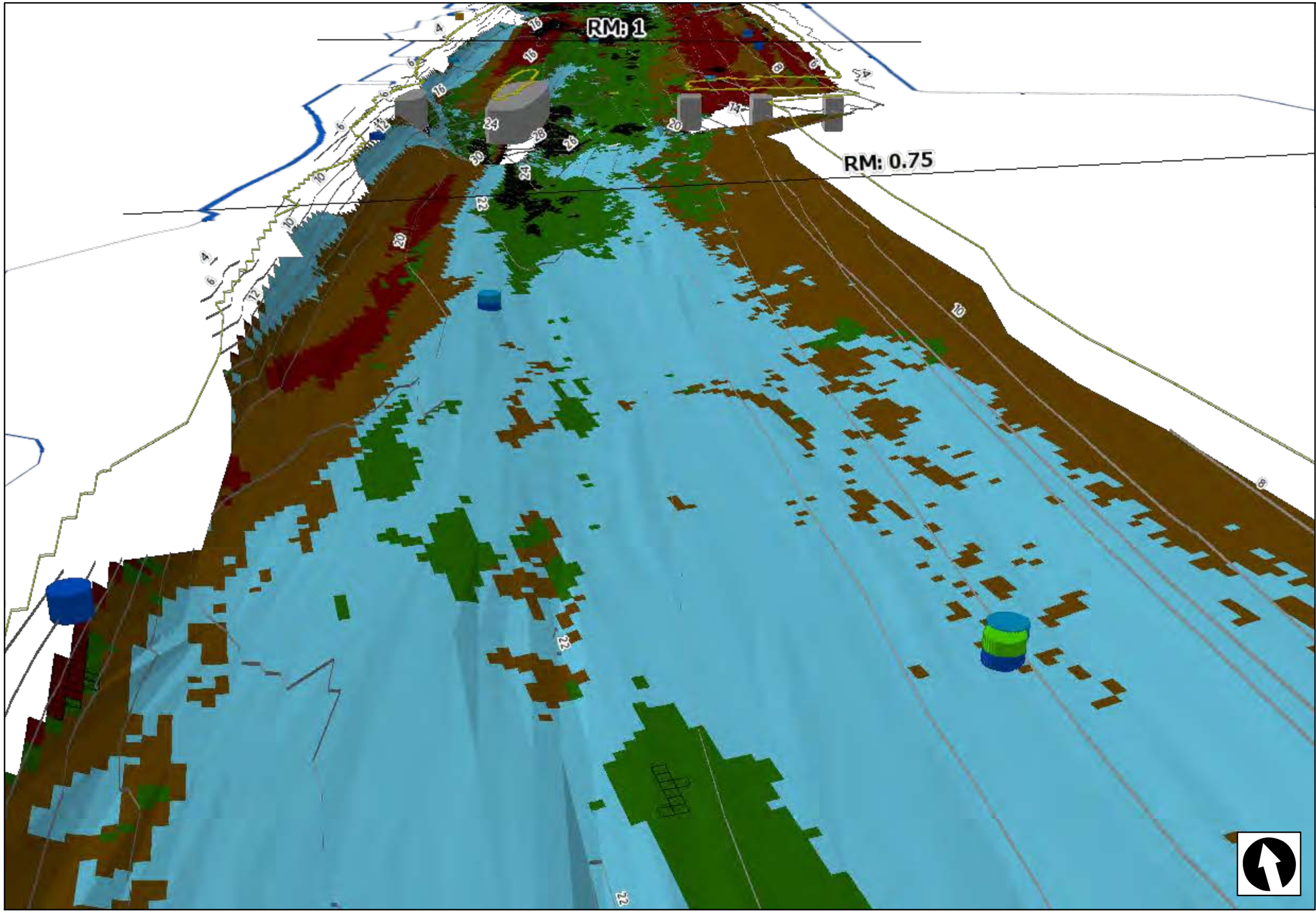
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Figure 4-8c

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

HMW PAH Concentration (mg/kg)

- 0 - 15
- 15 - 30
- 30 - 40
- 40 - 50
- 50 - 80
- >80

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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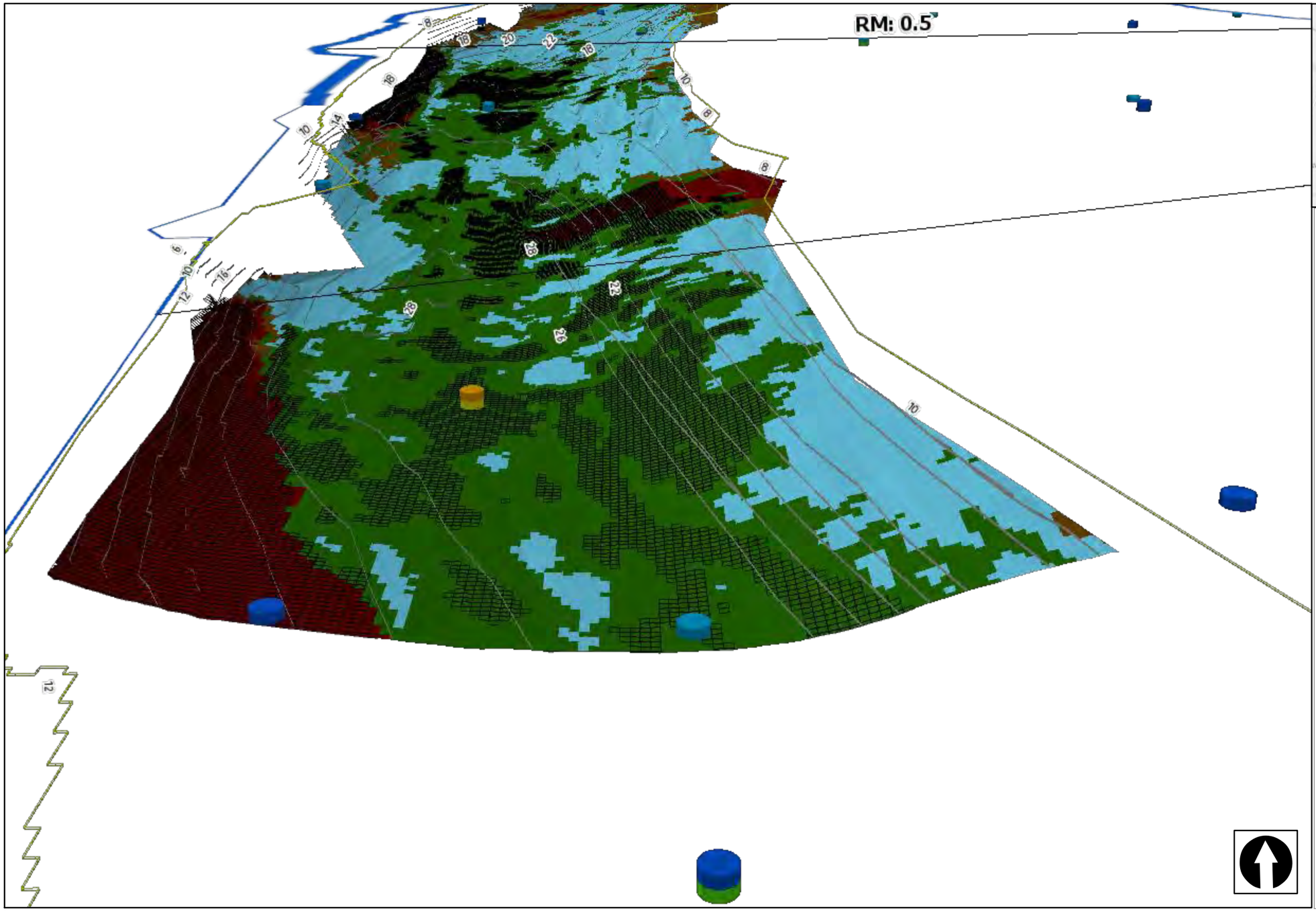
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Figure 4-8d

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



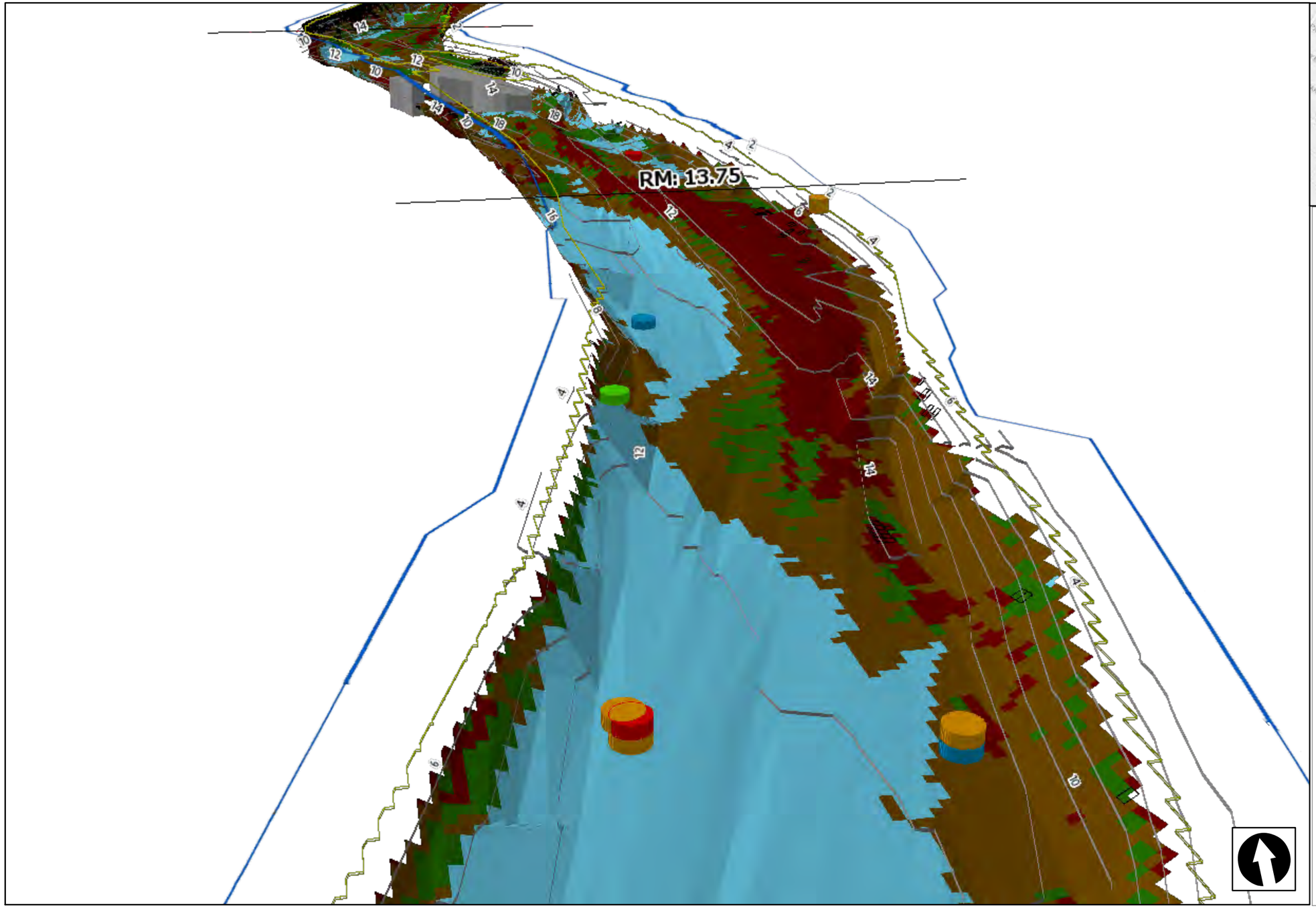
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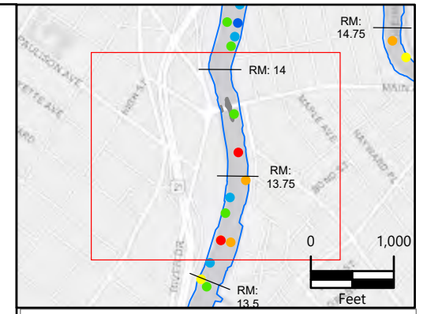
Figure 4-8e

HMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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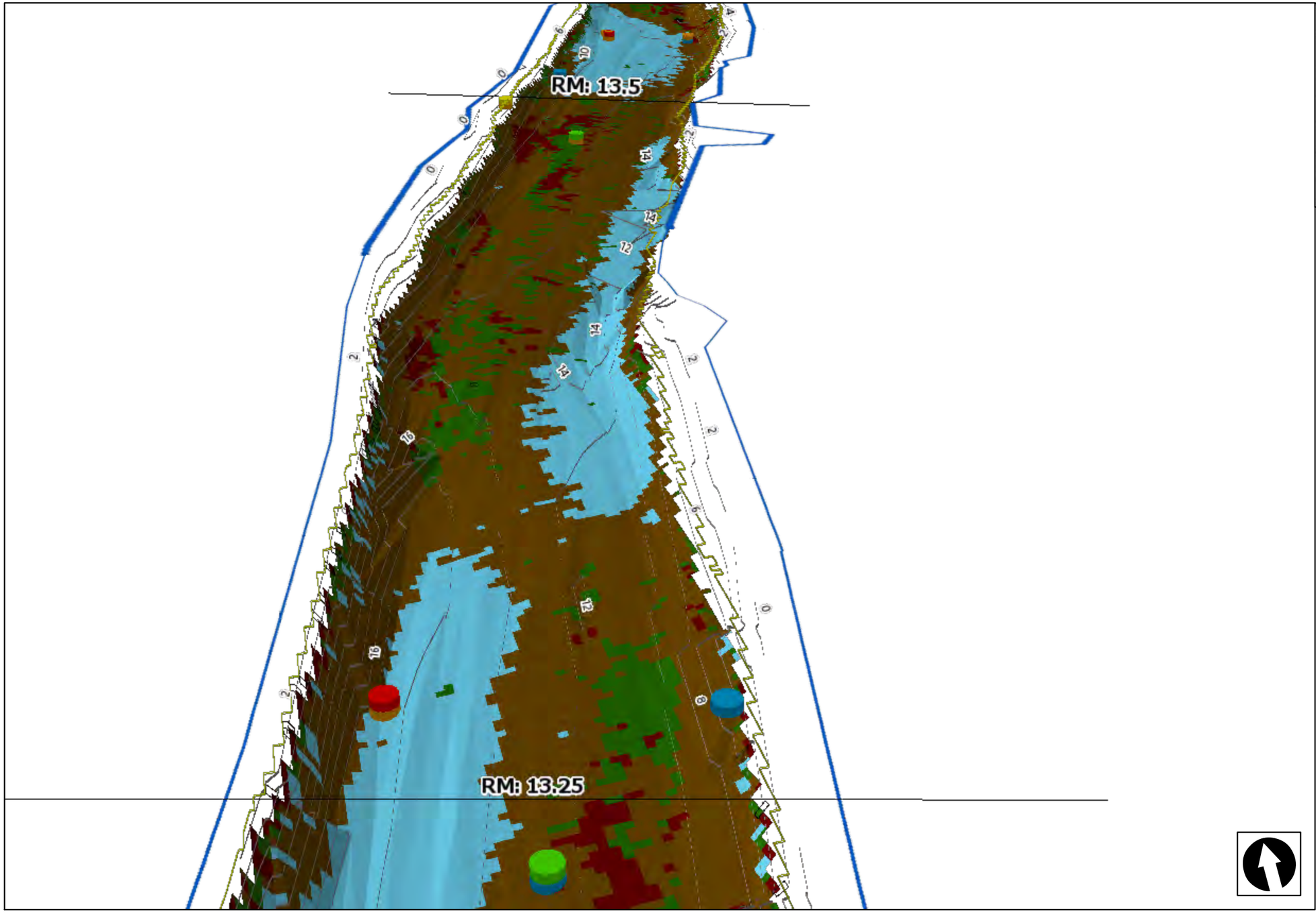
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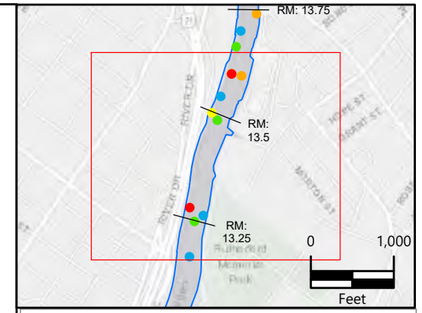
Figure 5-1a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
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- Depositional from 2007 to 2012
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NOTES:
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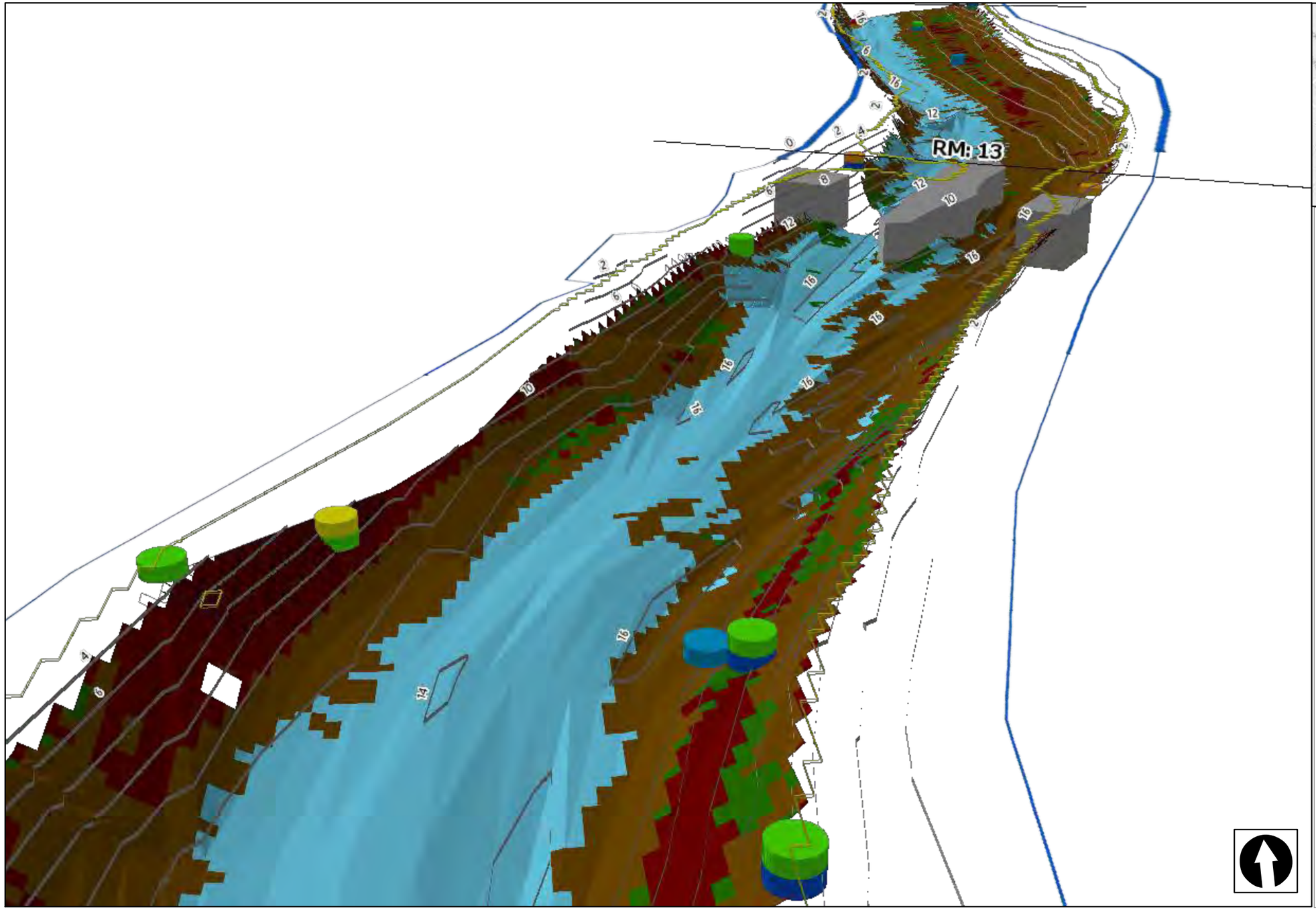
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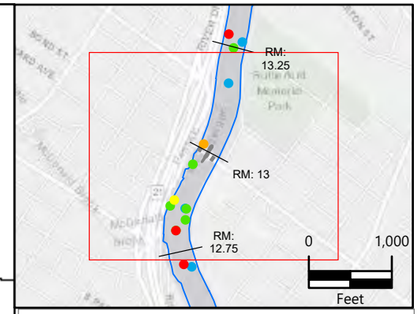
Figure 5-1b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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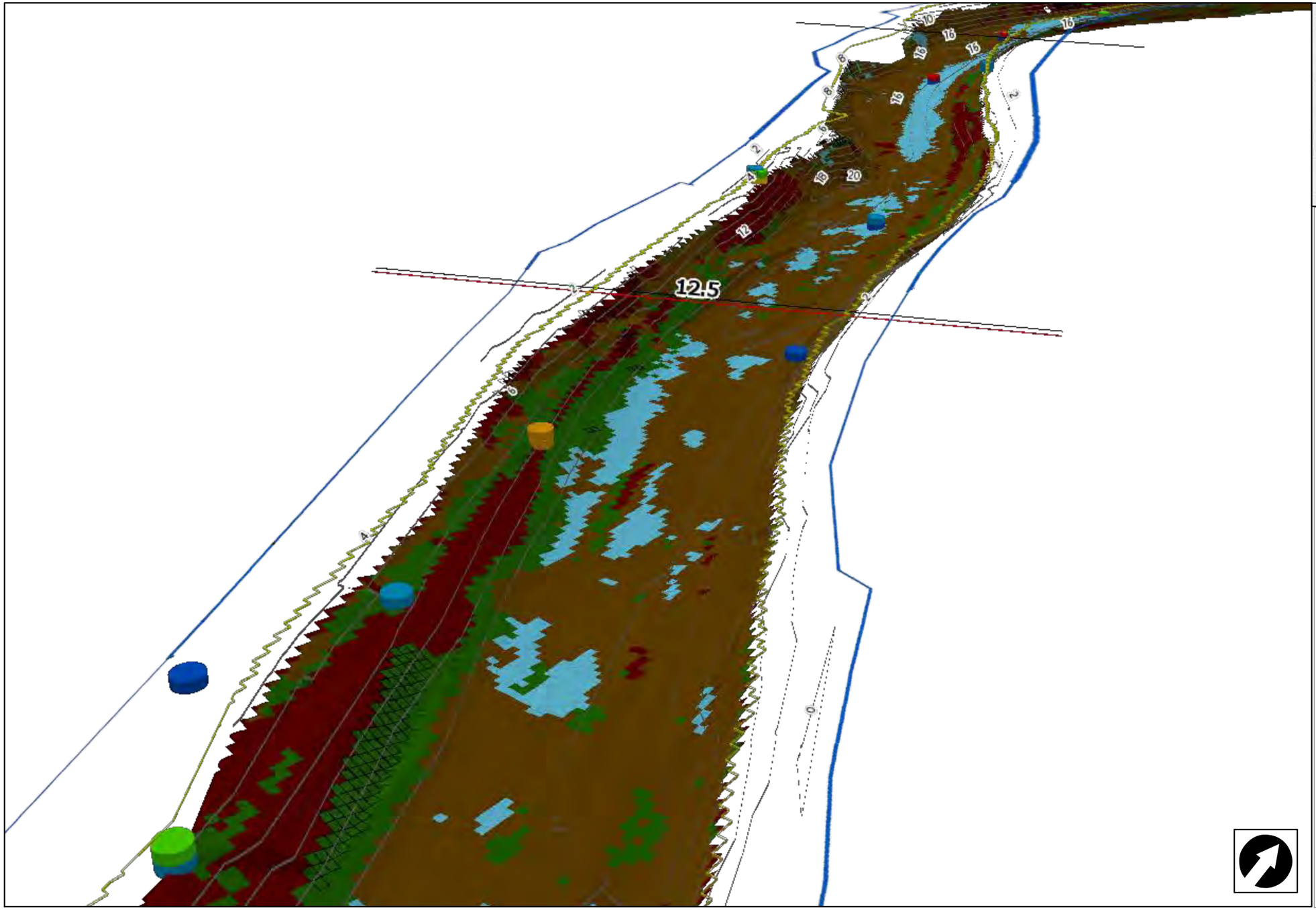
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Figure 5-1c

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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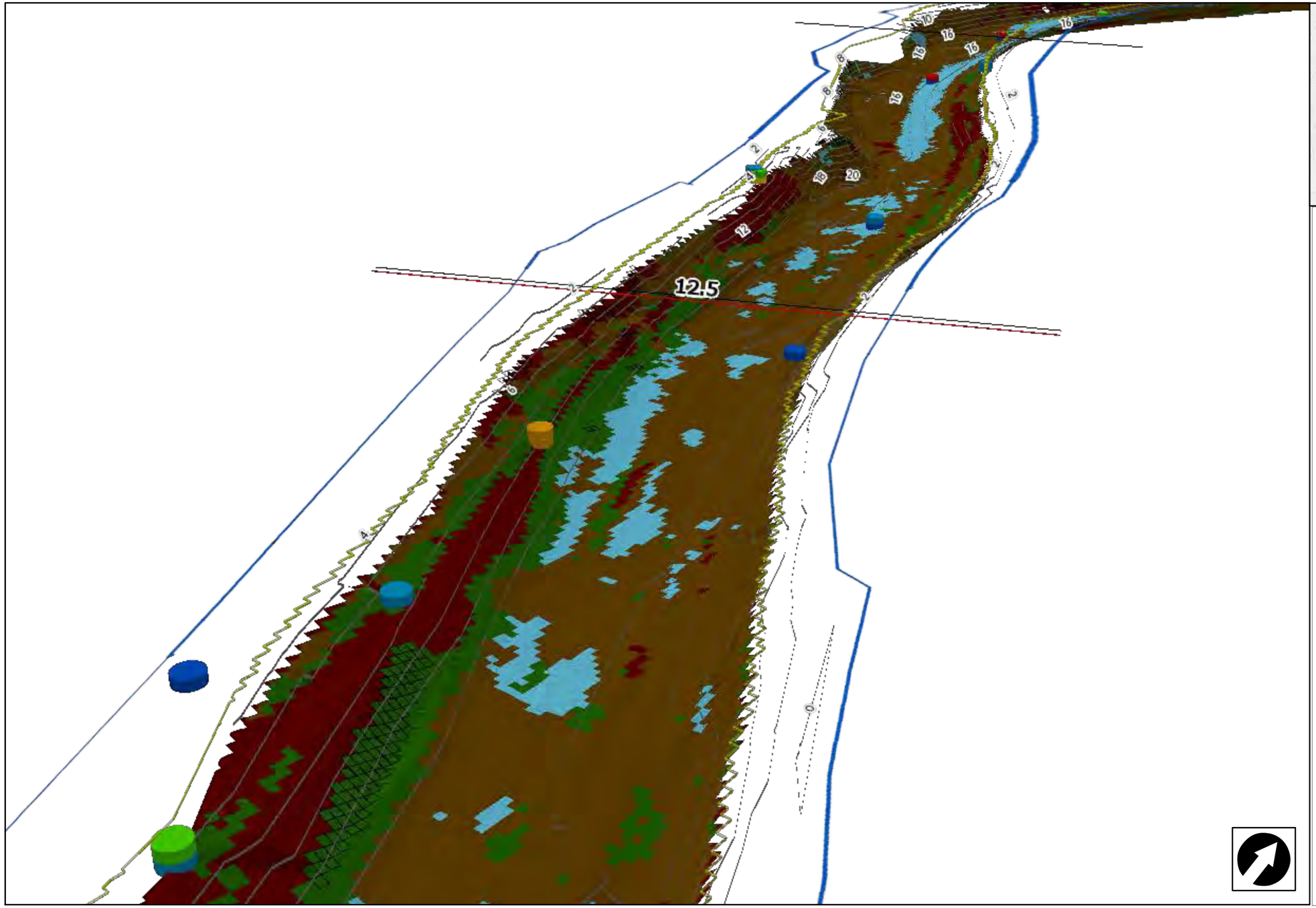
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Figure 5-1d

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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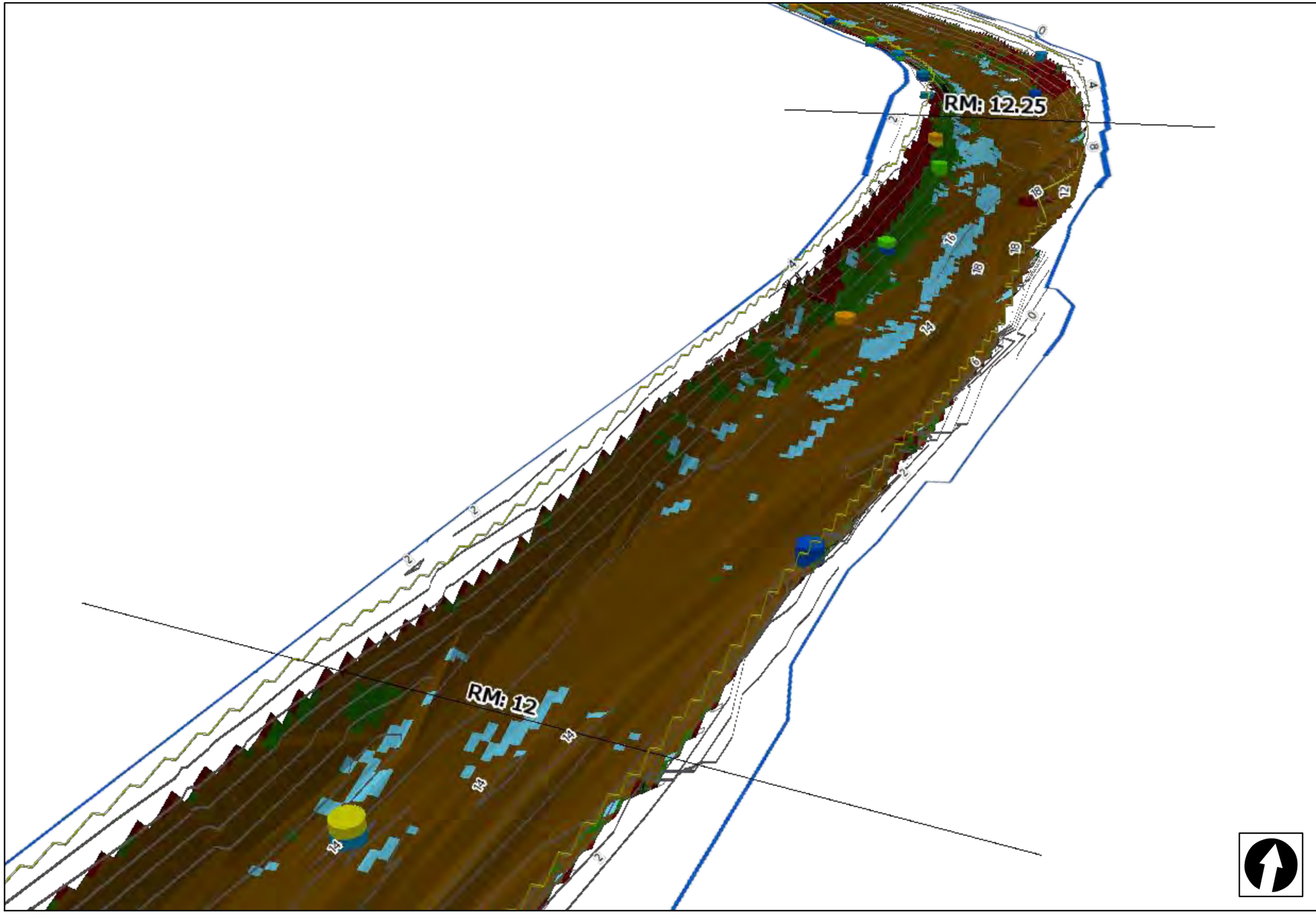
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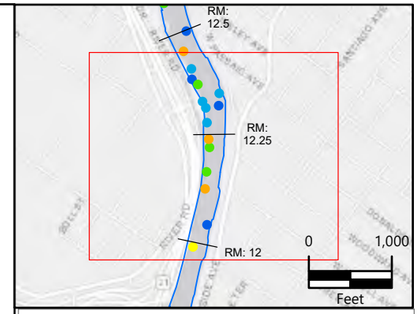
Figure 5-2a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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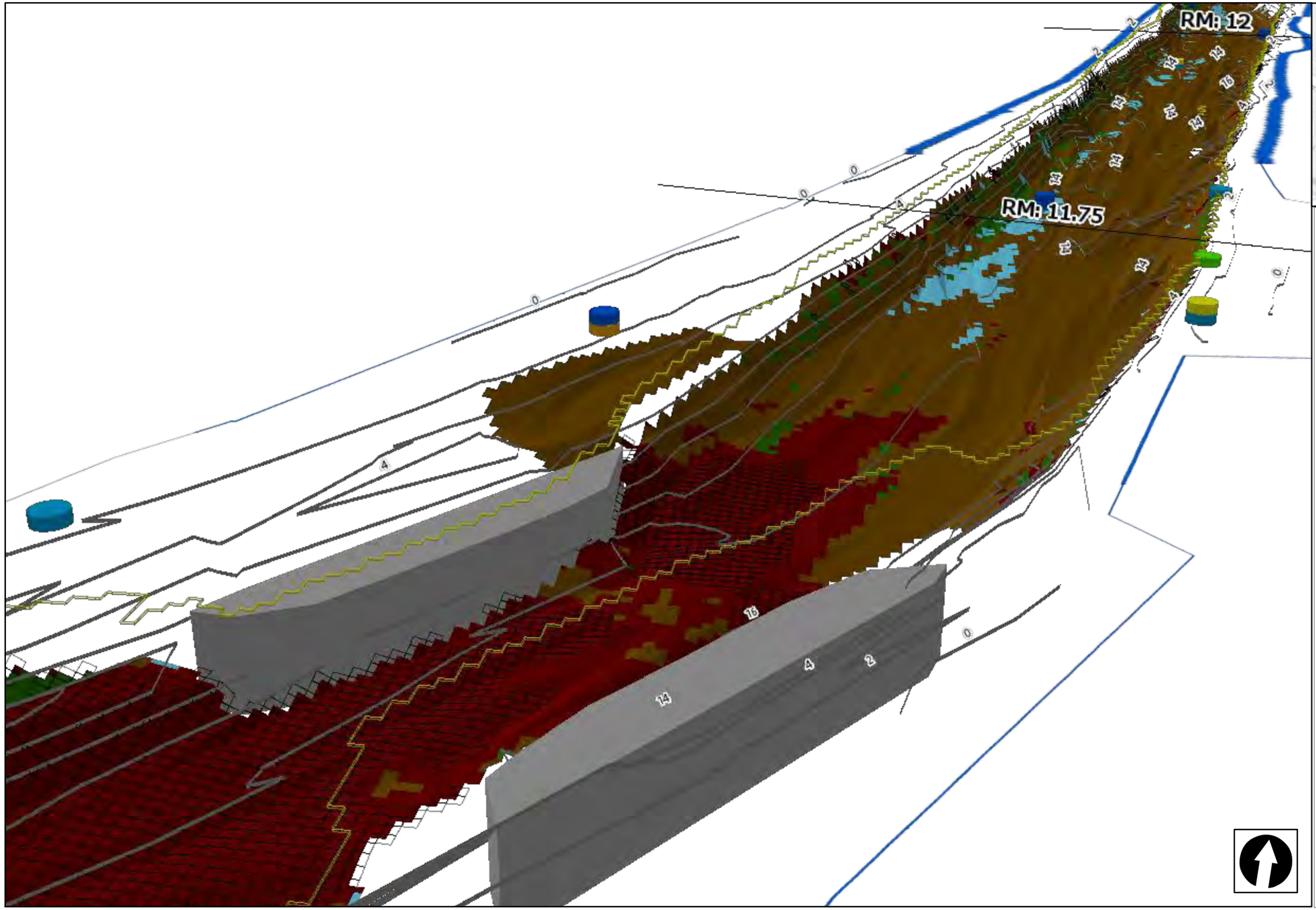
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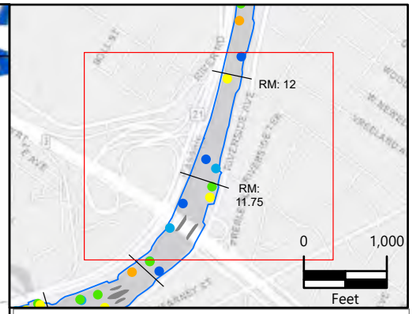
Figure 5-2b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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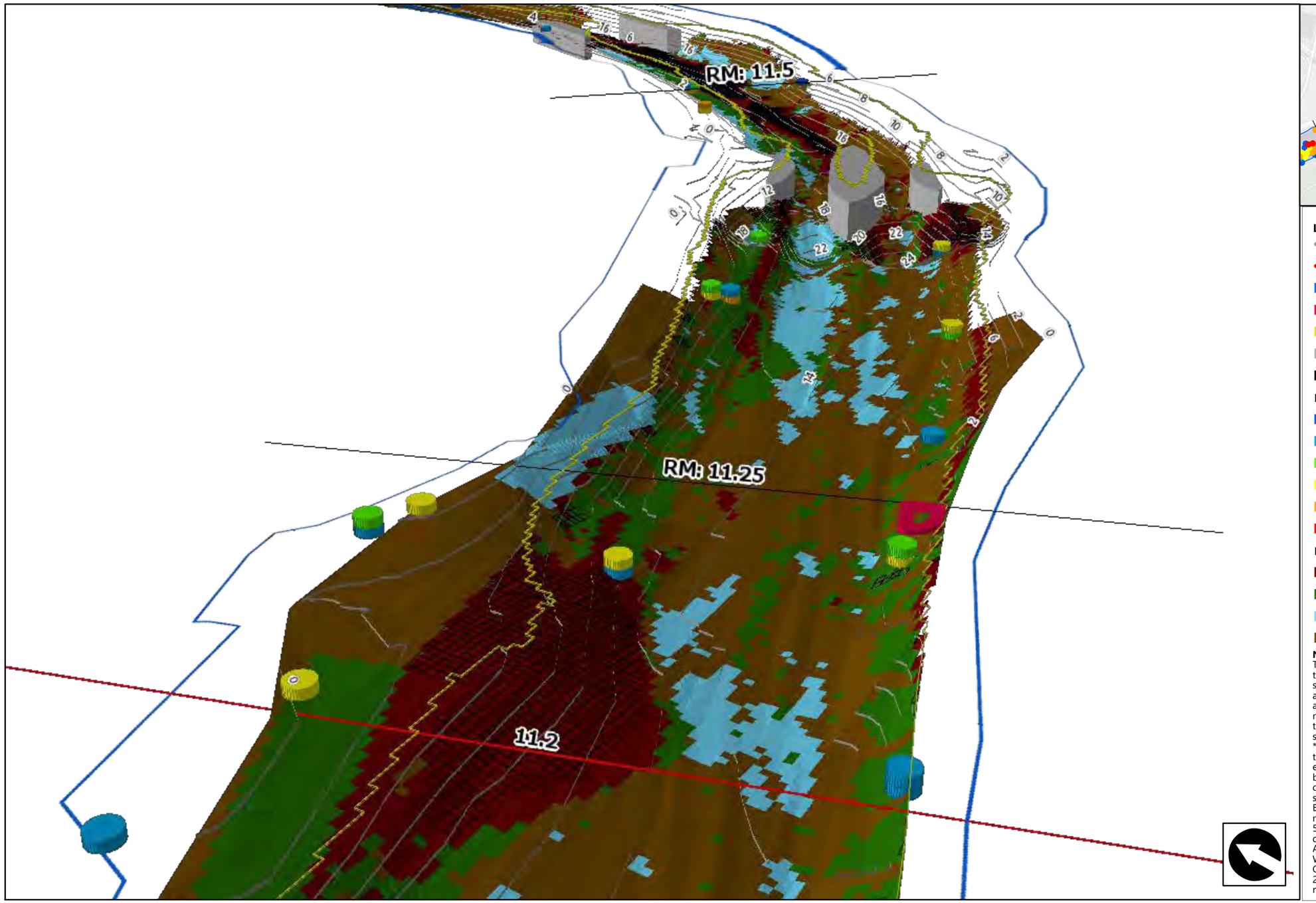
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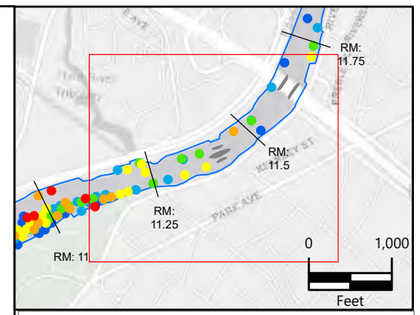
Figure 5-2c

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- TCRA Remediated in 2013-2014
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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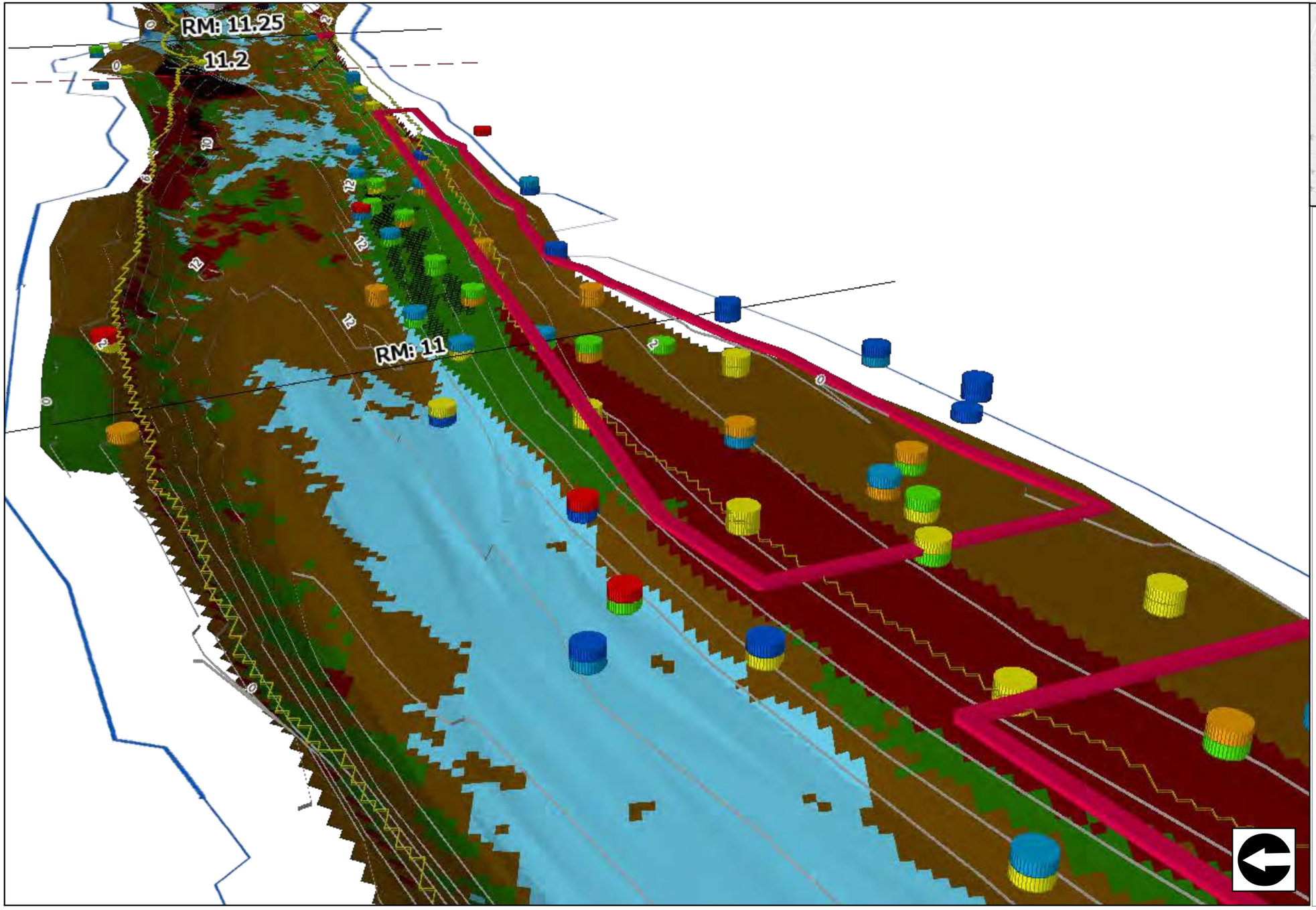
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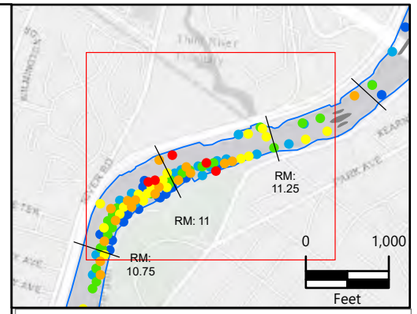
Figure 5-2d

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

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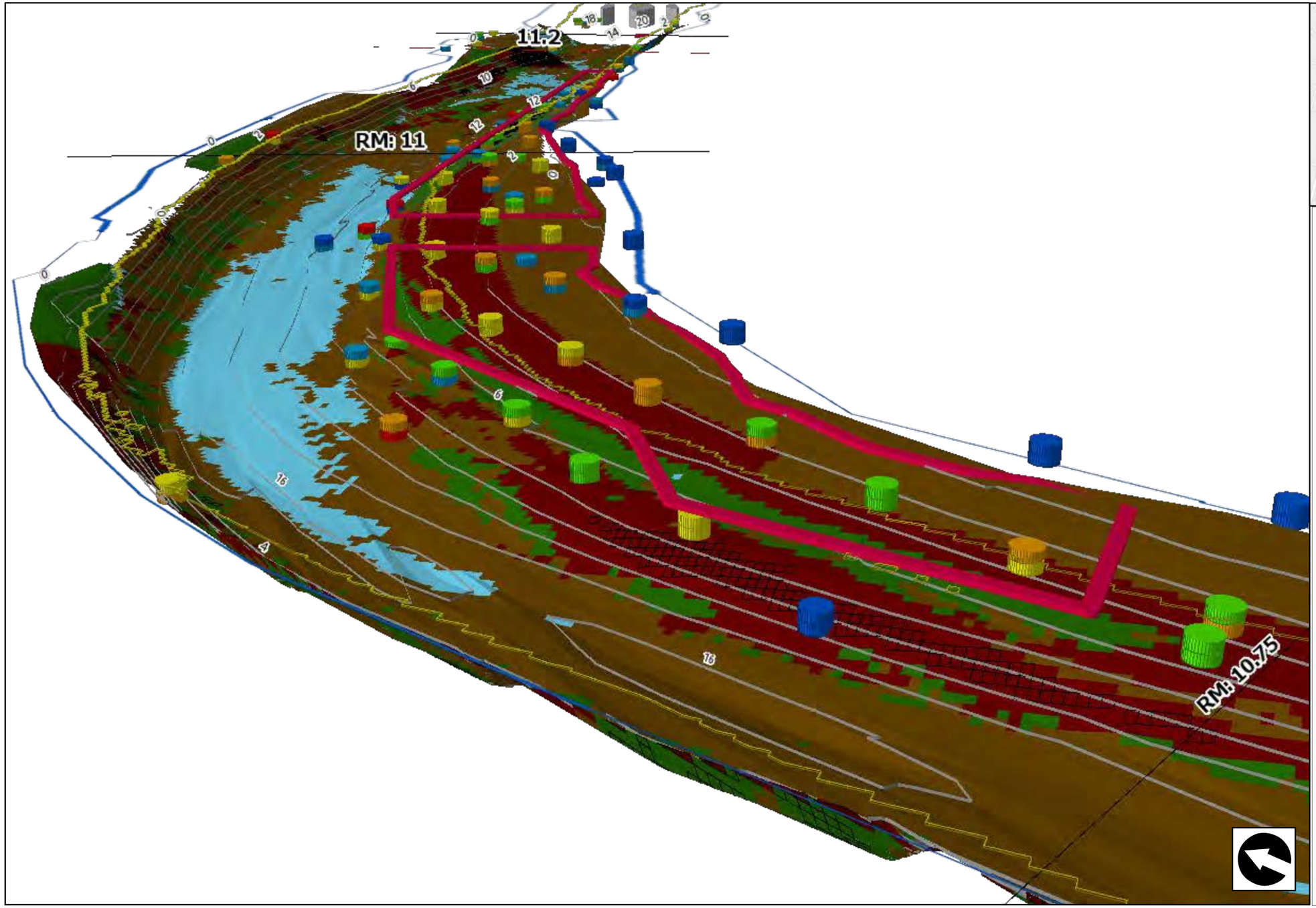
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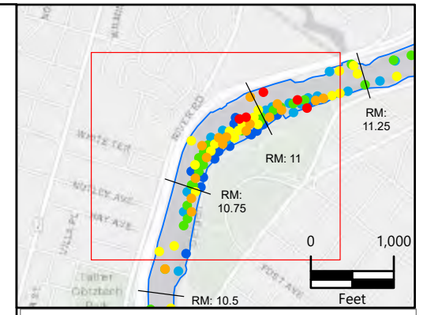
Figure 5-3a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

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Bathymetric Change Category *

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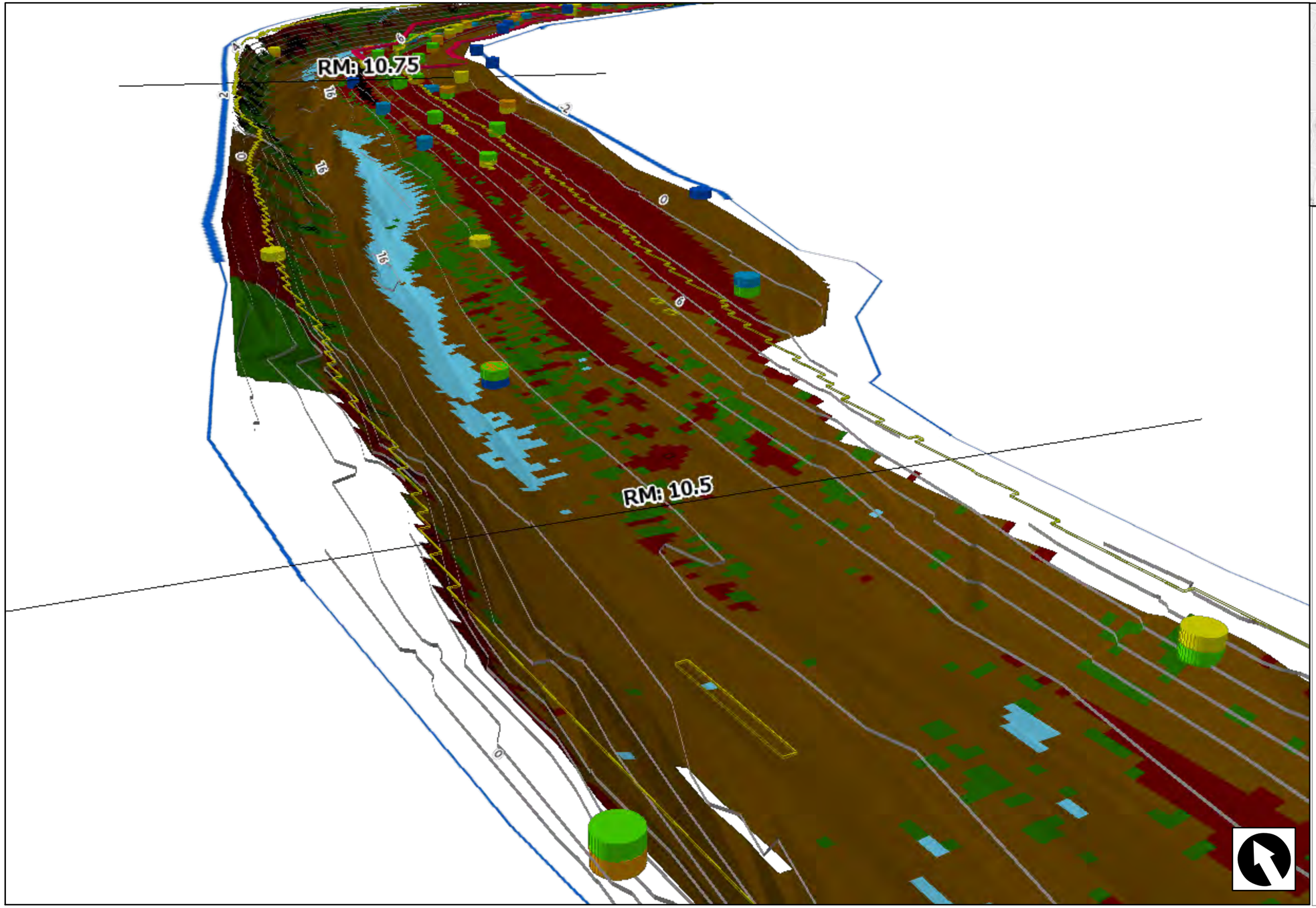
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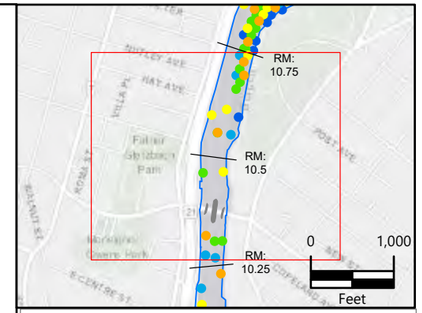
Figure 5-3b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





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- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

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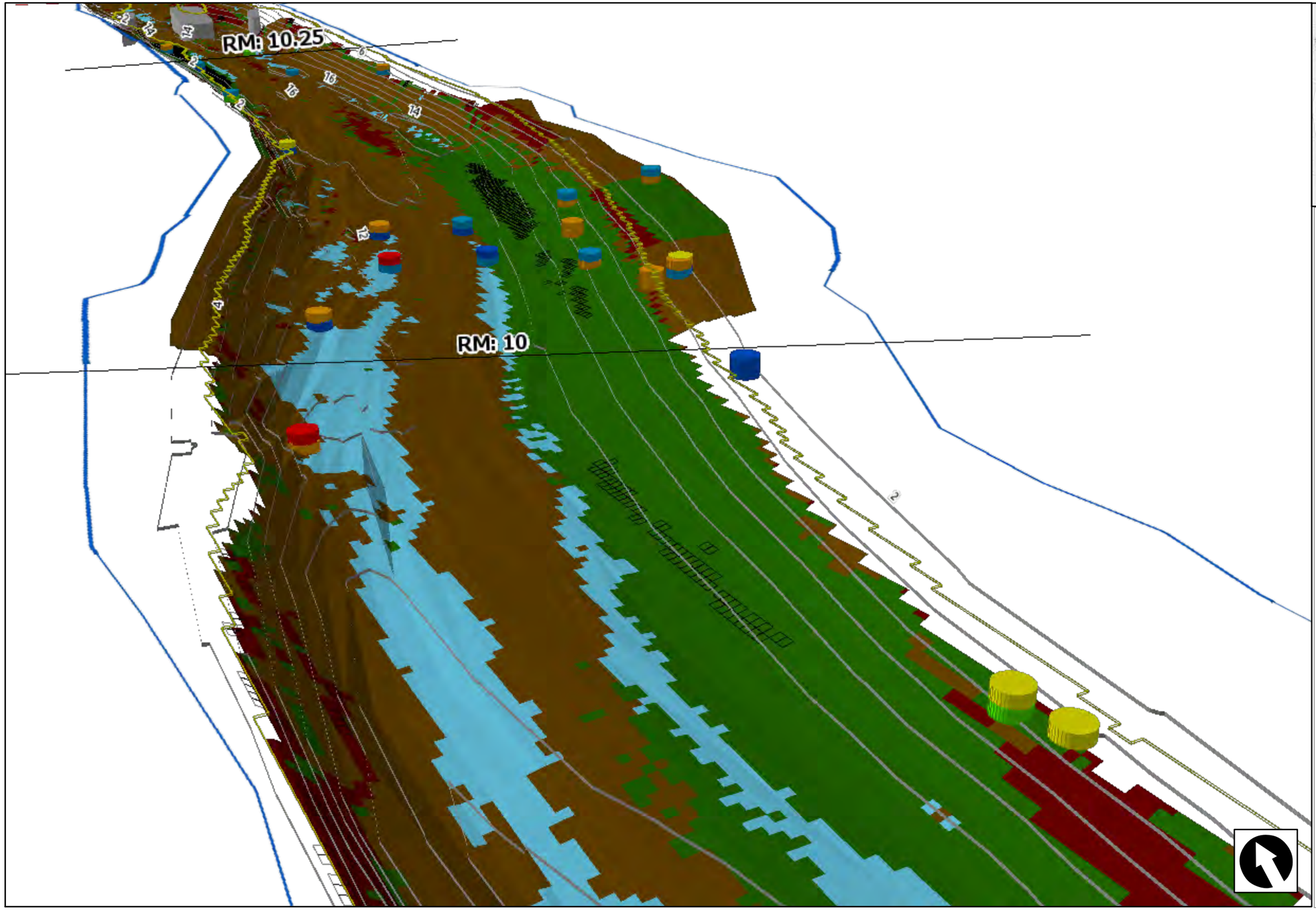
Bathymetric Change Category *

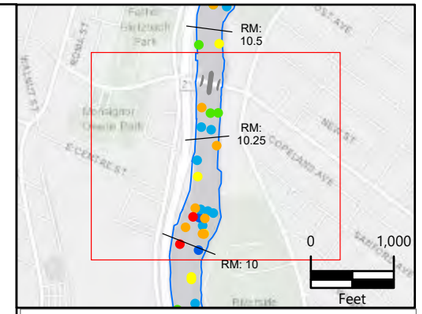
- Erosional from 2007 to 2012
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Figure 5-3c
LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns
Remedial Investigation Report
Lower Passaic River Study Remedial Investigation/Feasibility Study





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Bathymetric Change Category *

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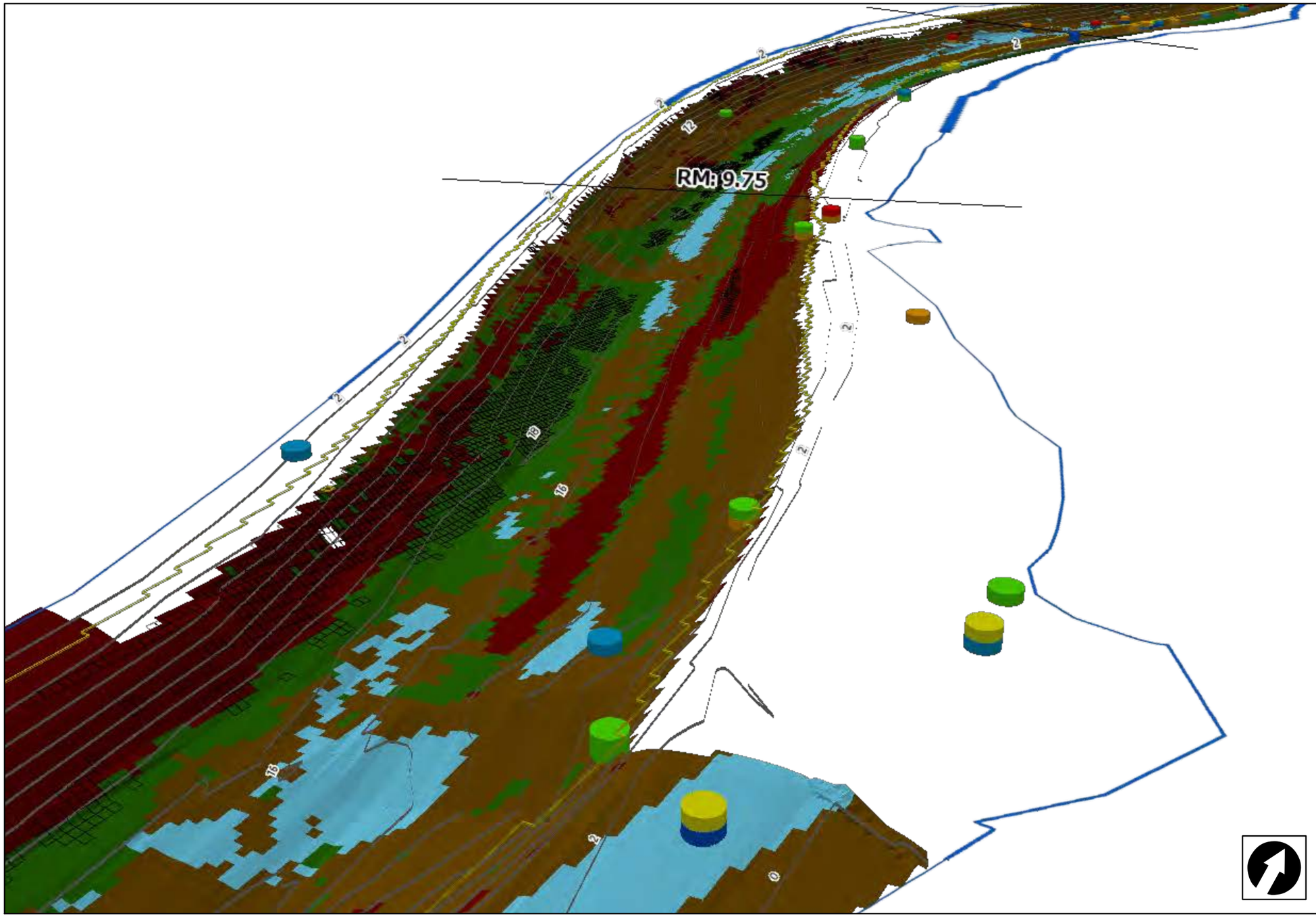
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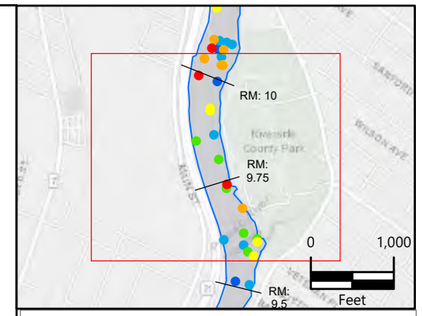
Figure 5-4a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

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Lower Passaic River Study Remedial Investigation/Feasibility Study





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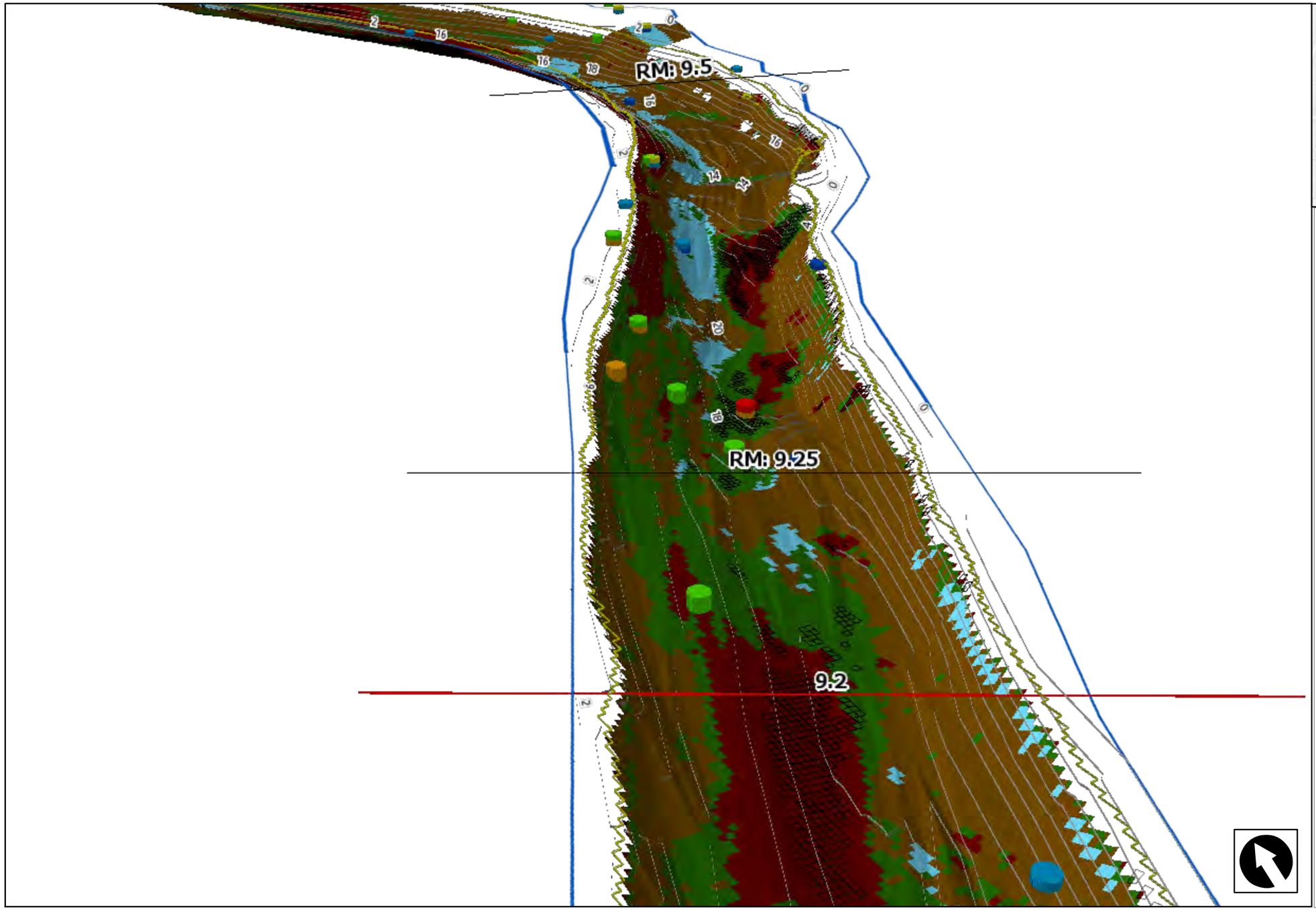
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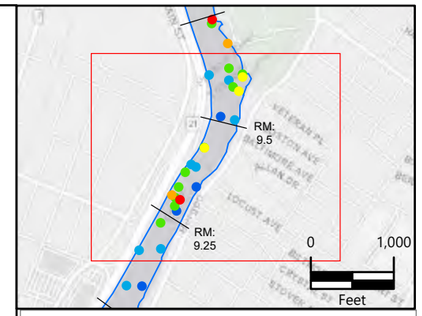
Figure 5-4b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

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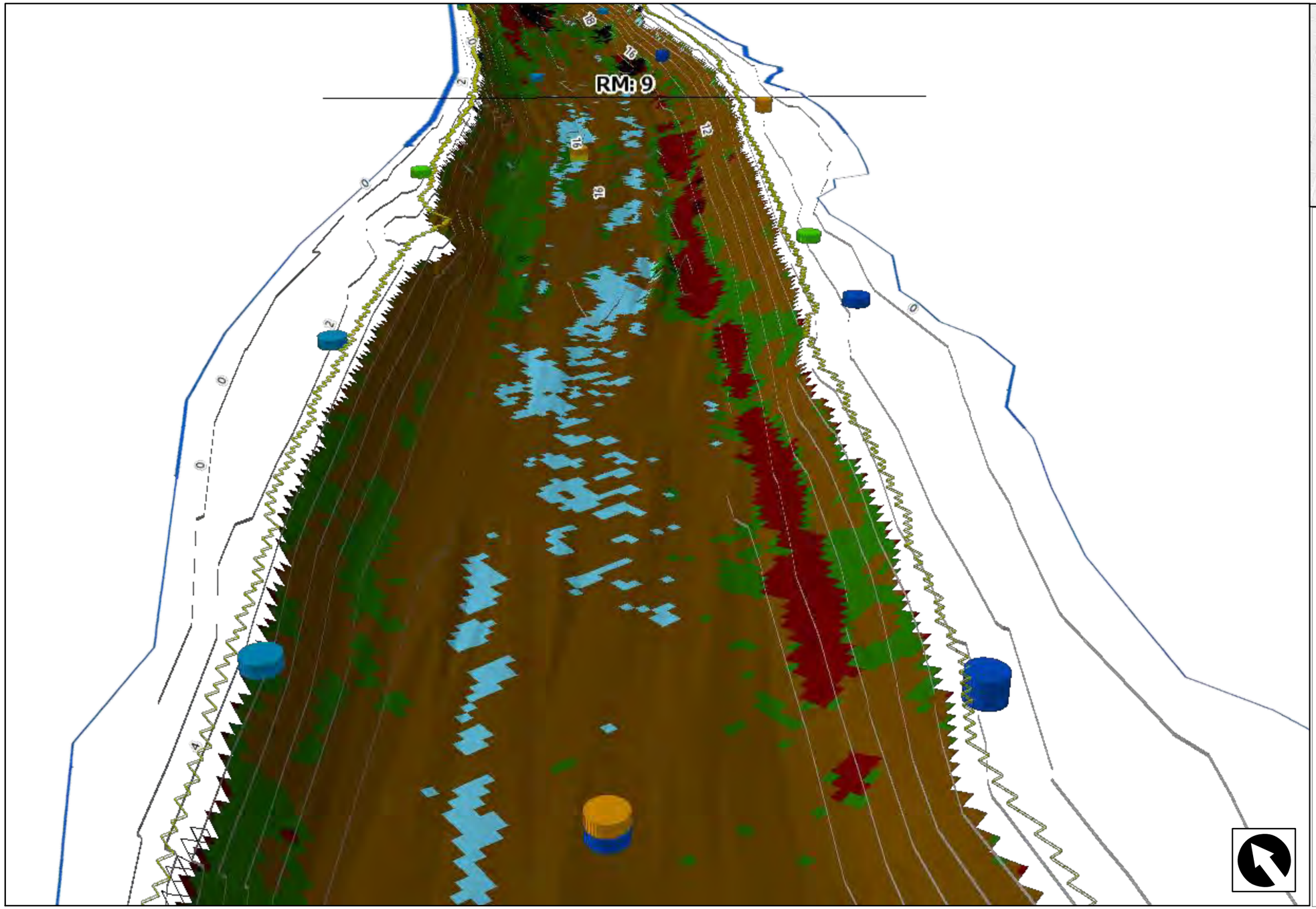
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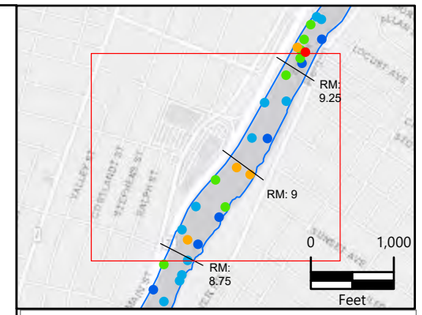
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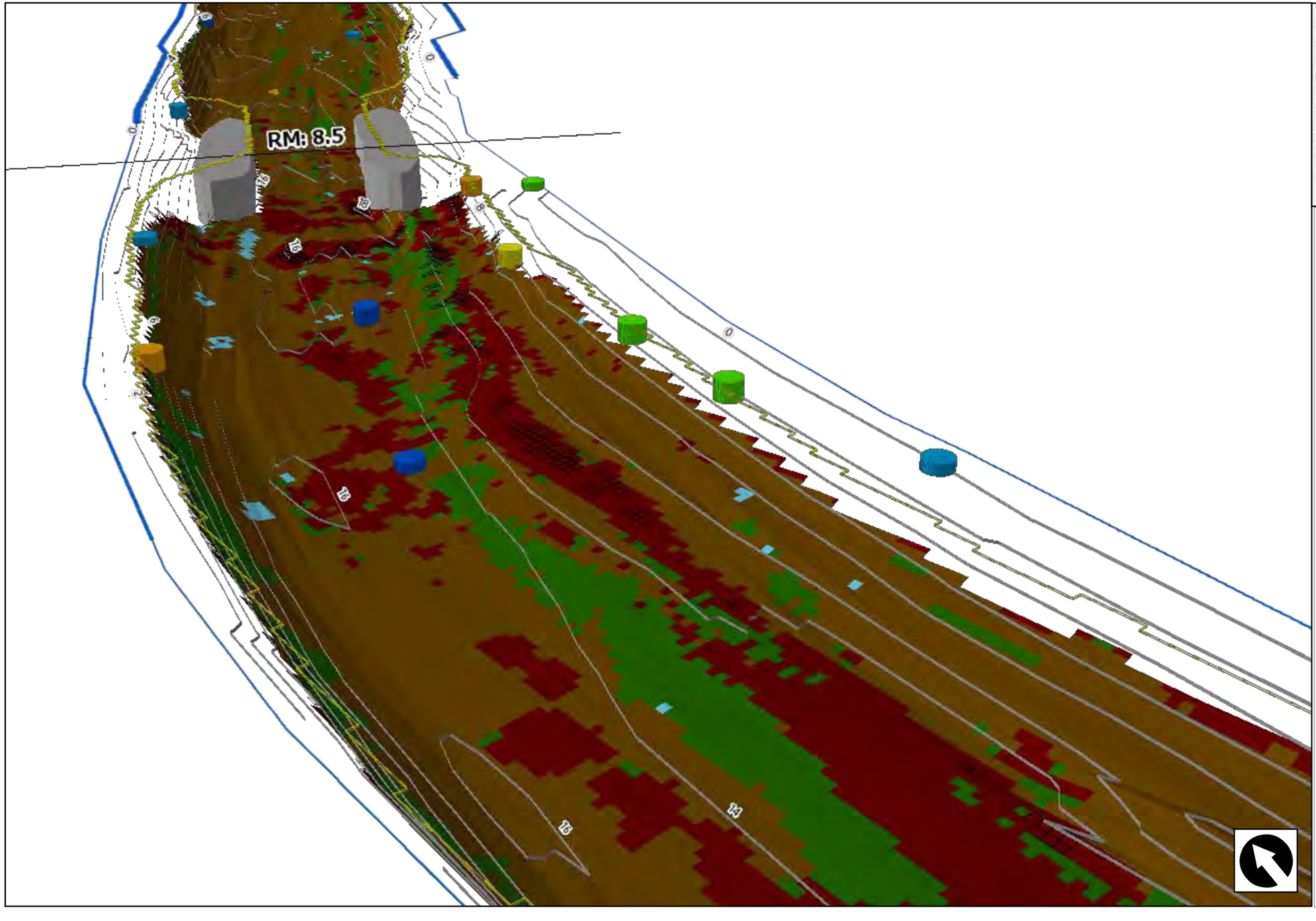
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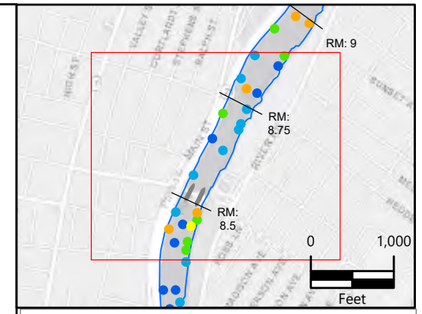
Figure 5-5a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

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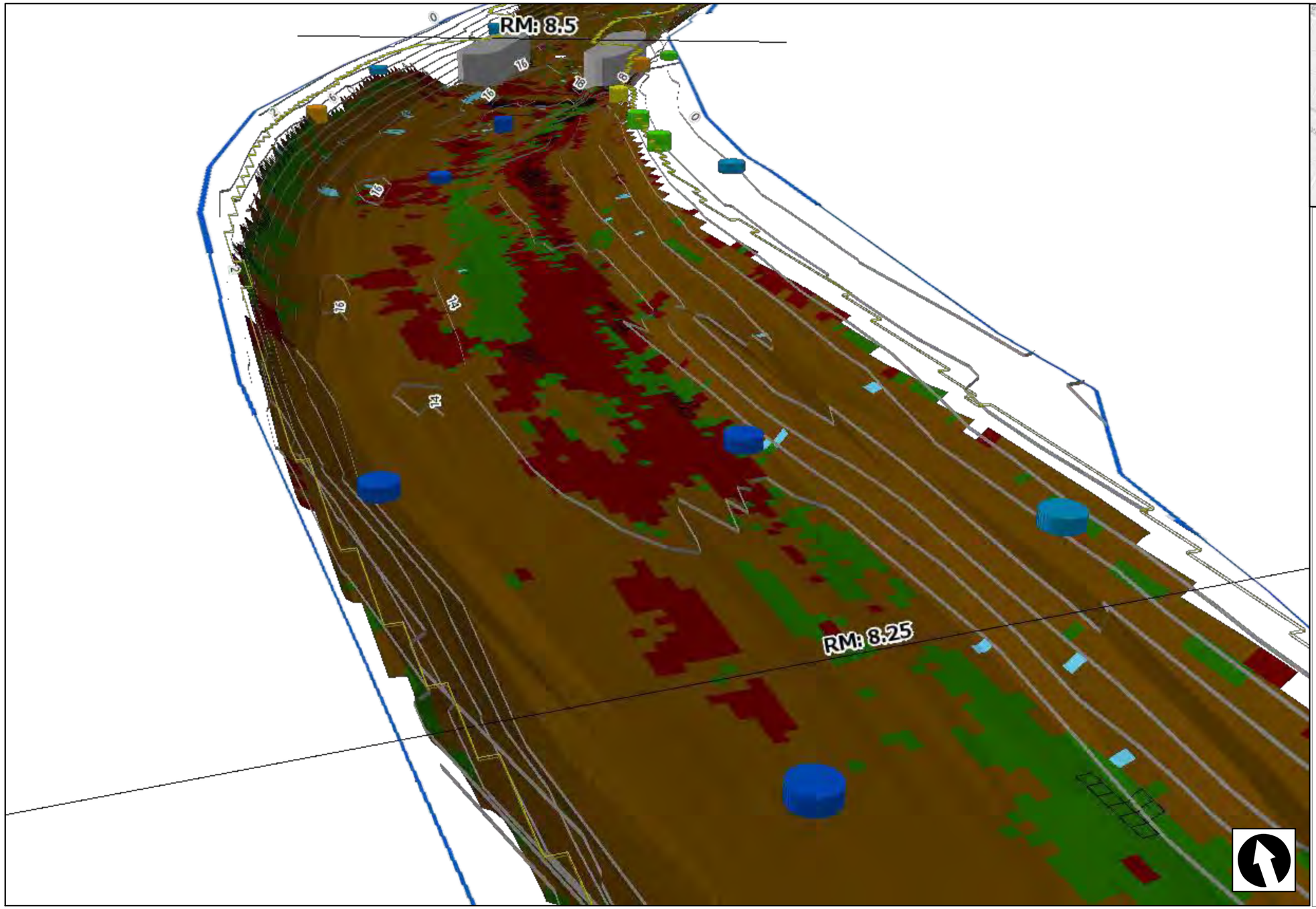
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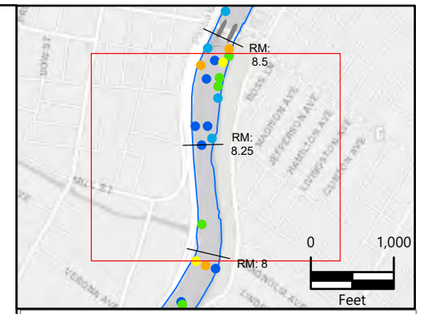
Figure 5-5b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





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- Shoreline
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LMW PAH Concentration (mg/kg)

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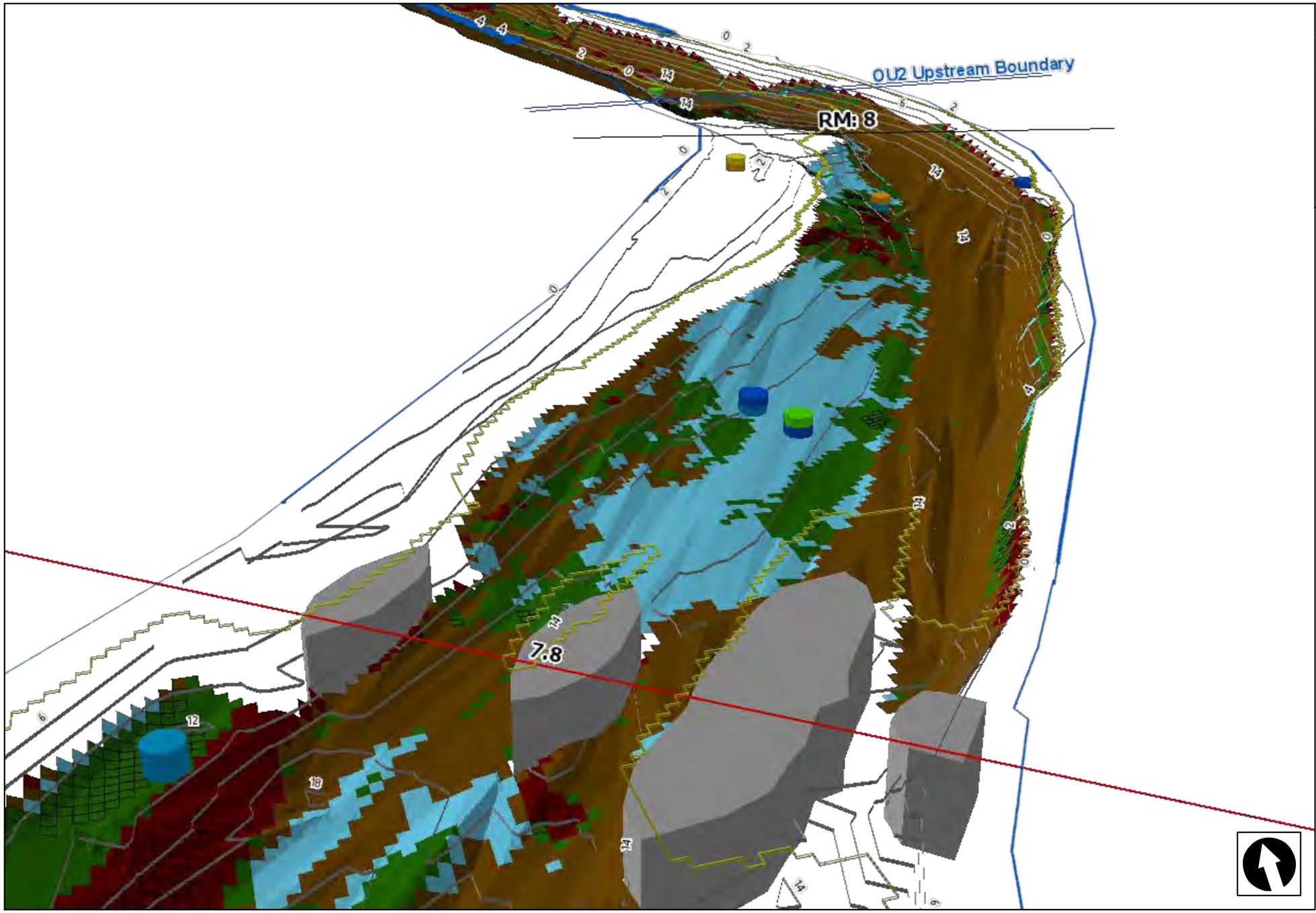
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Figure 5-5c

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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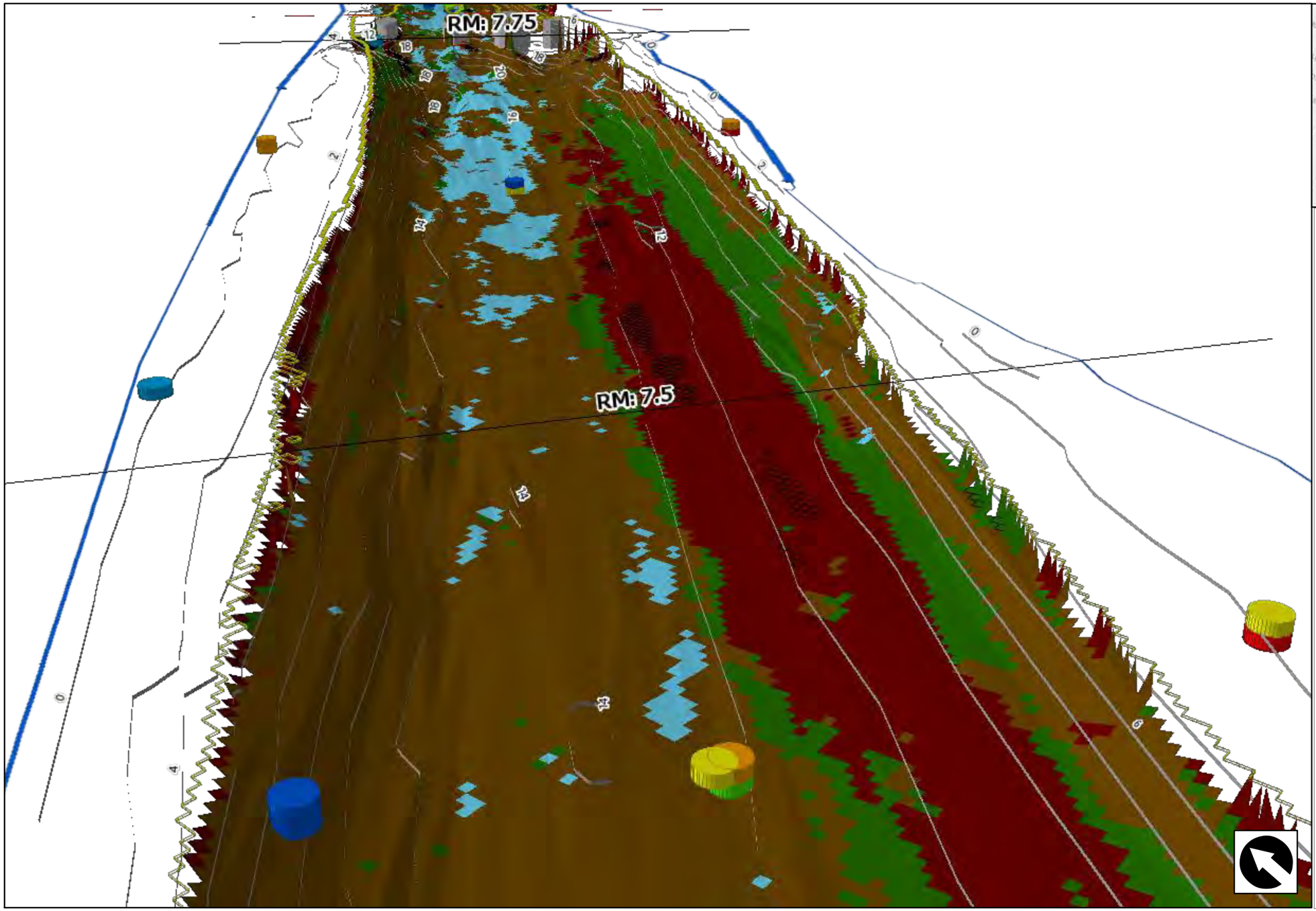
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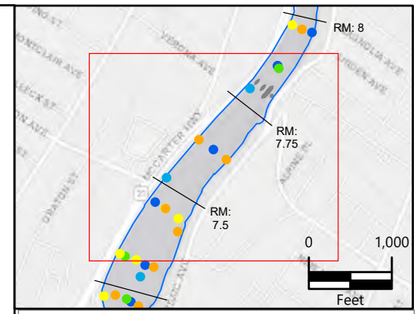
Figure 5-5d

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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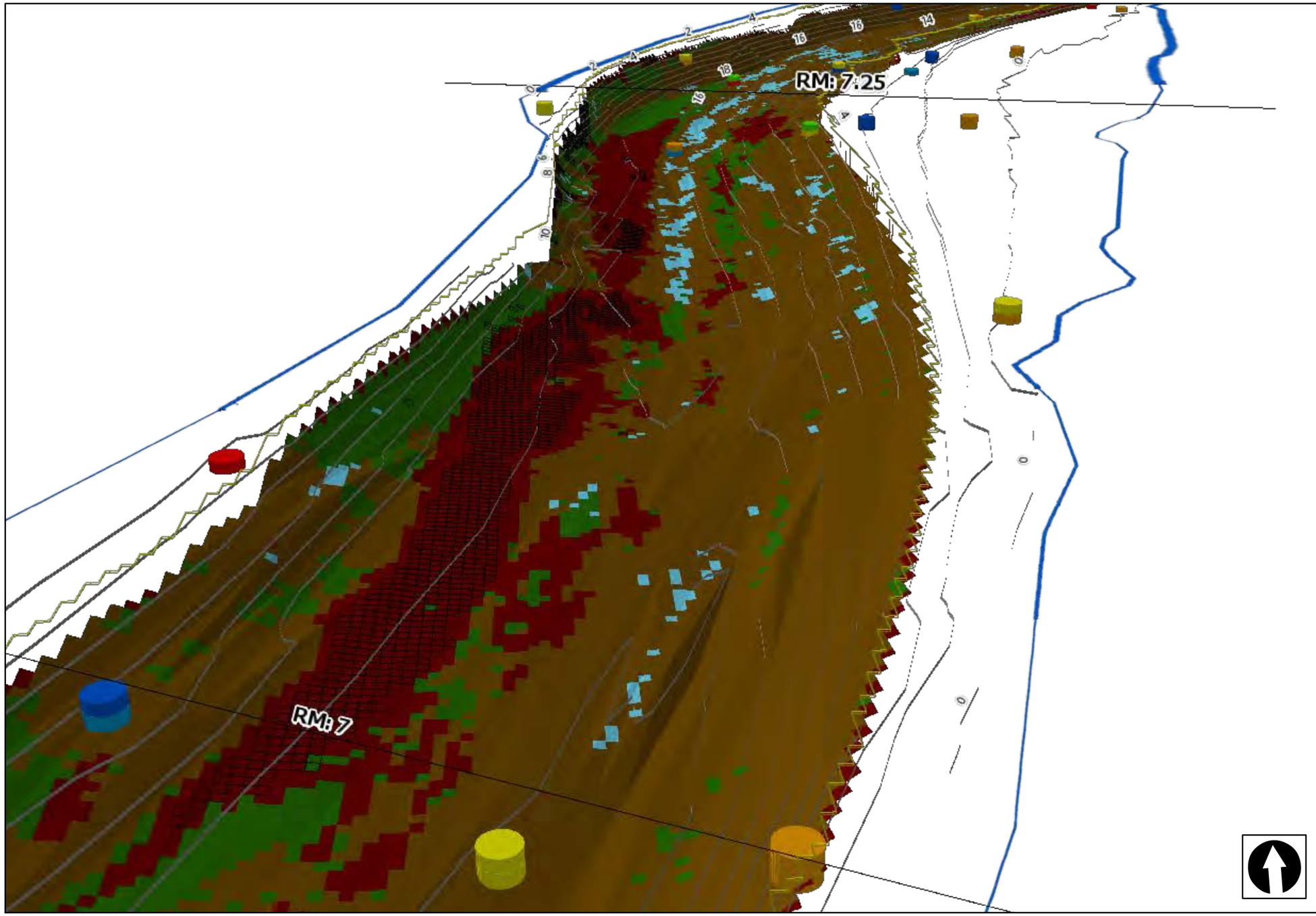
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Figure 5-6a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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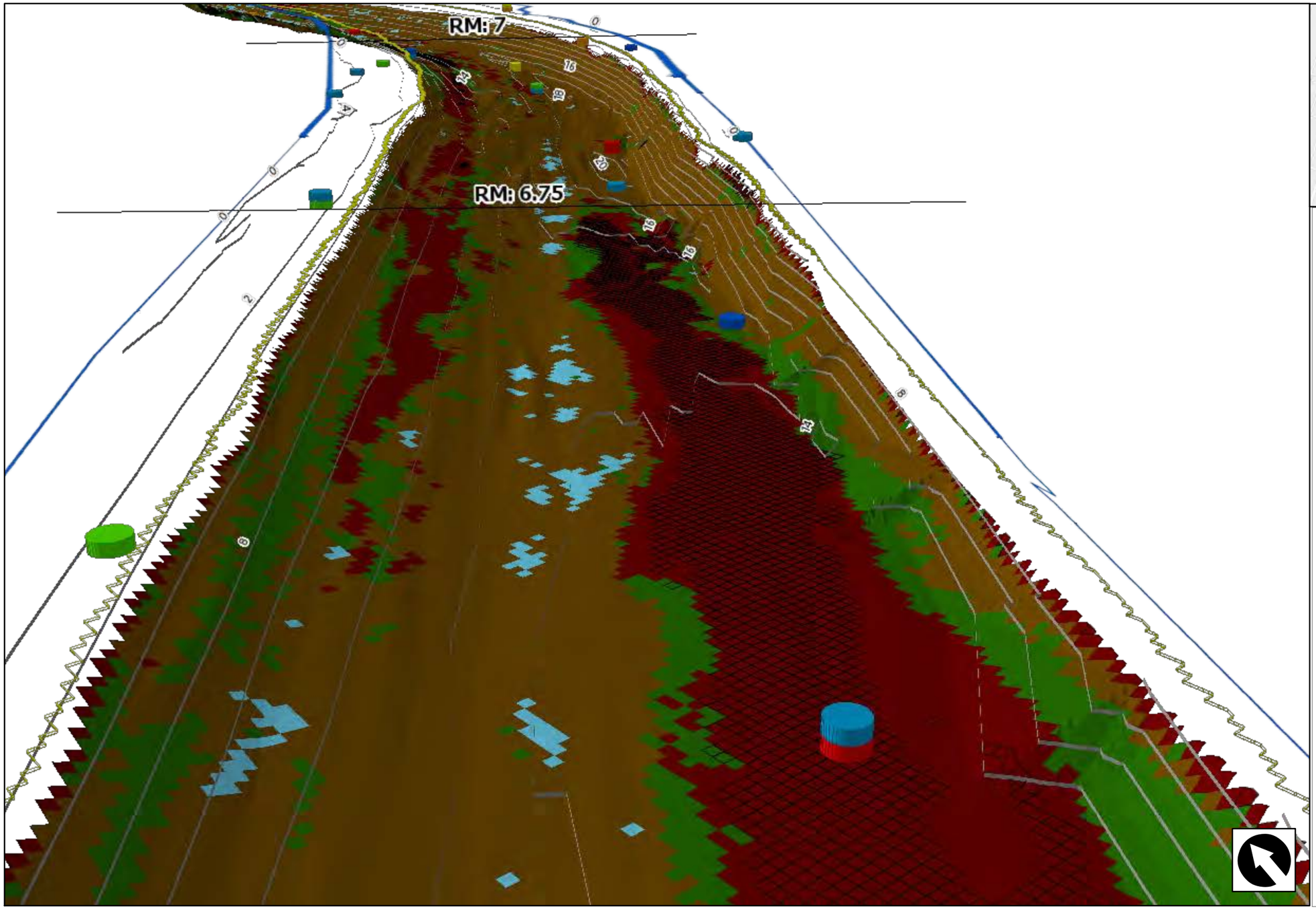
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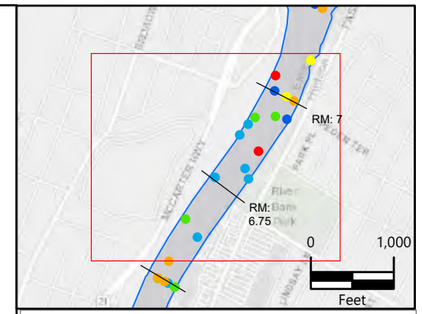
Figure 5-6b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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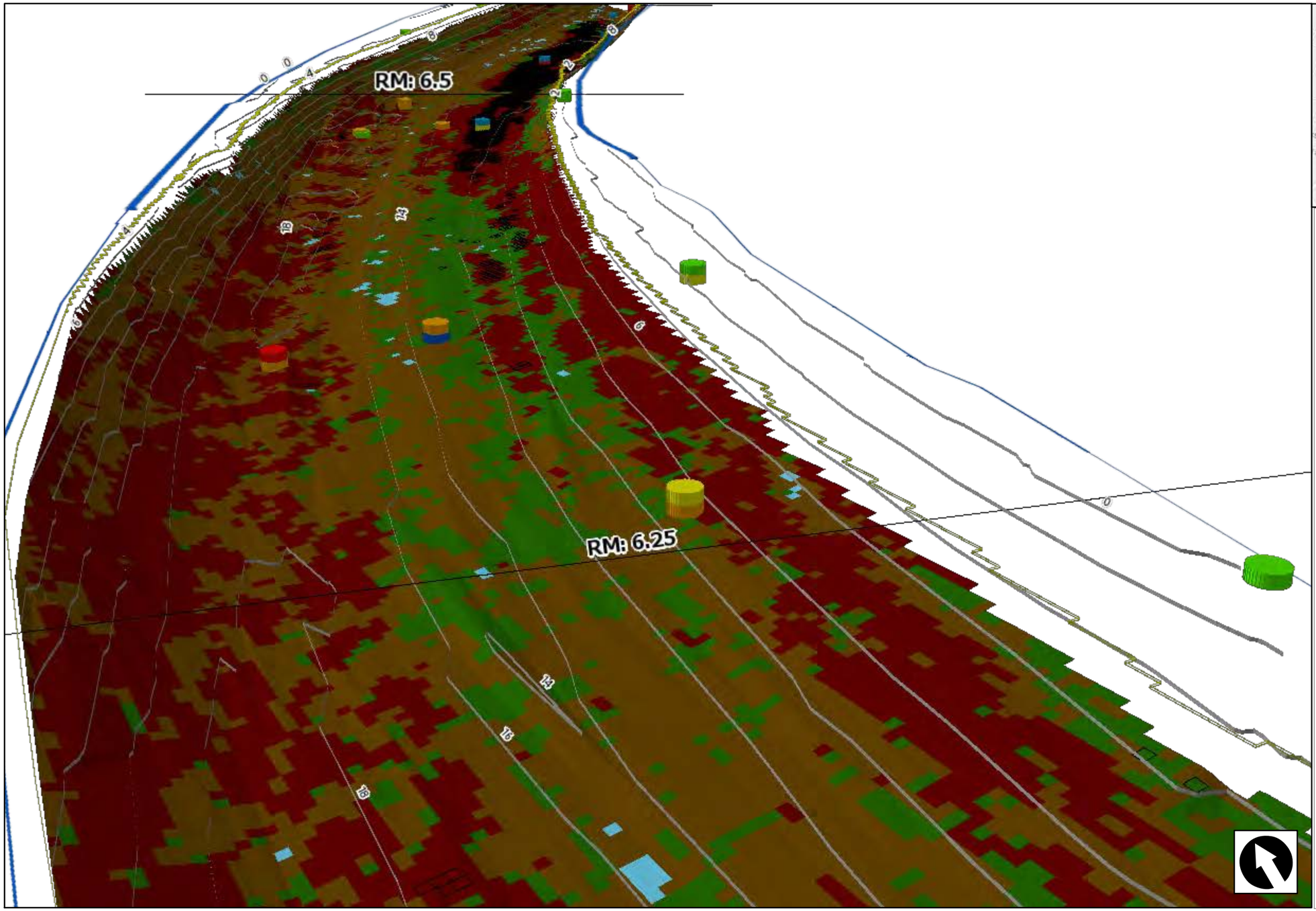
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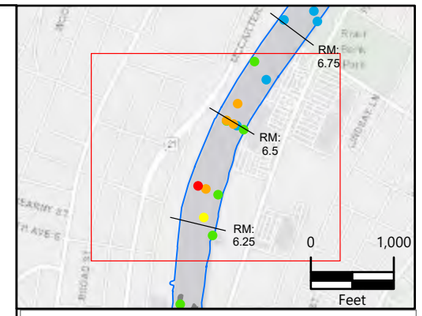
Figure 5-6c

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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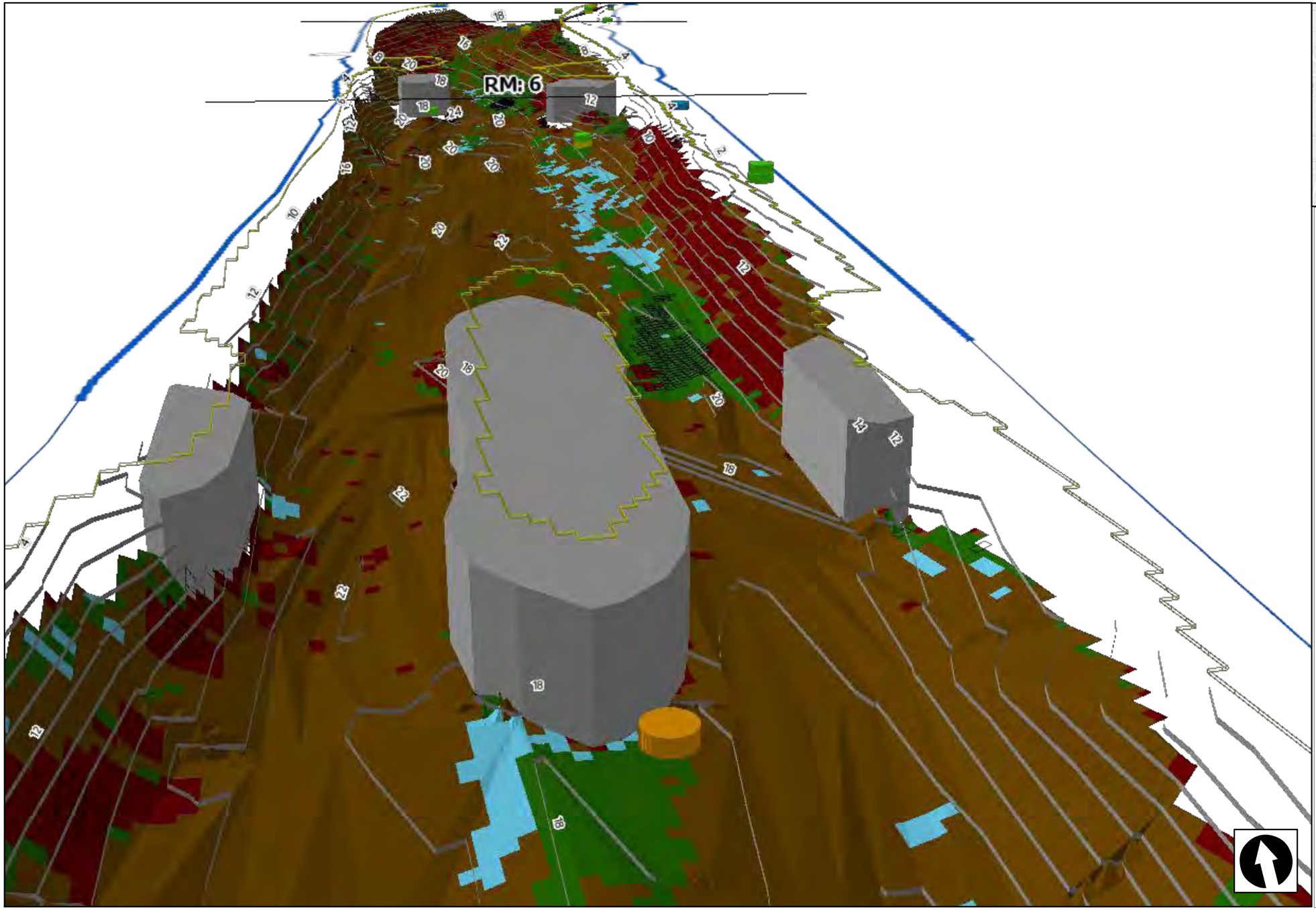
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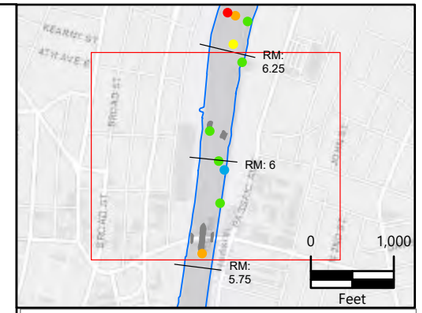
Figure 5-6d

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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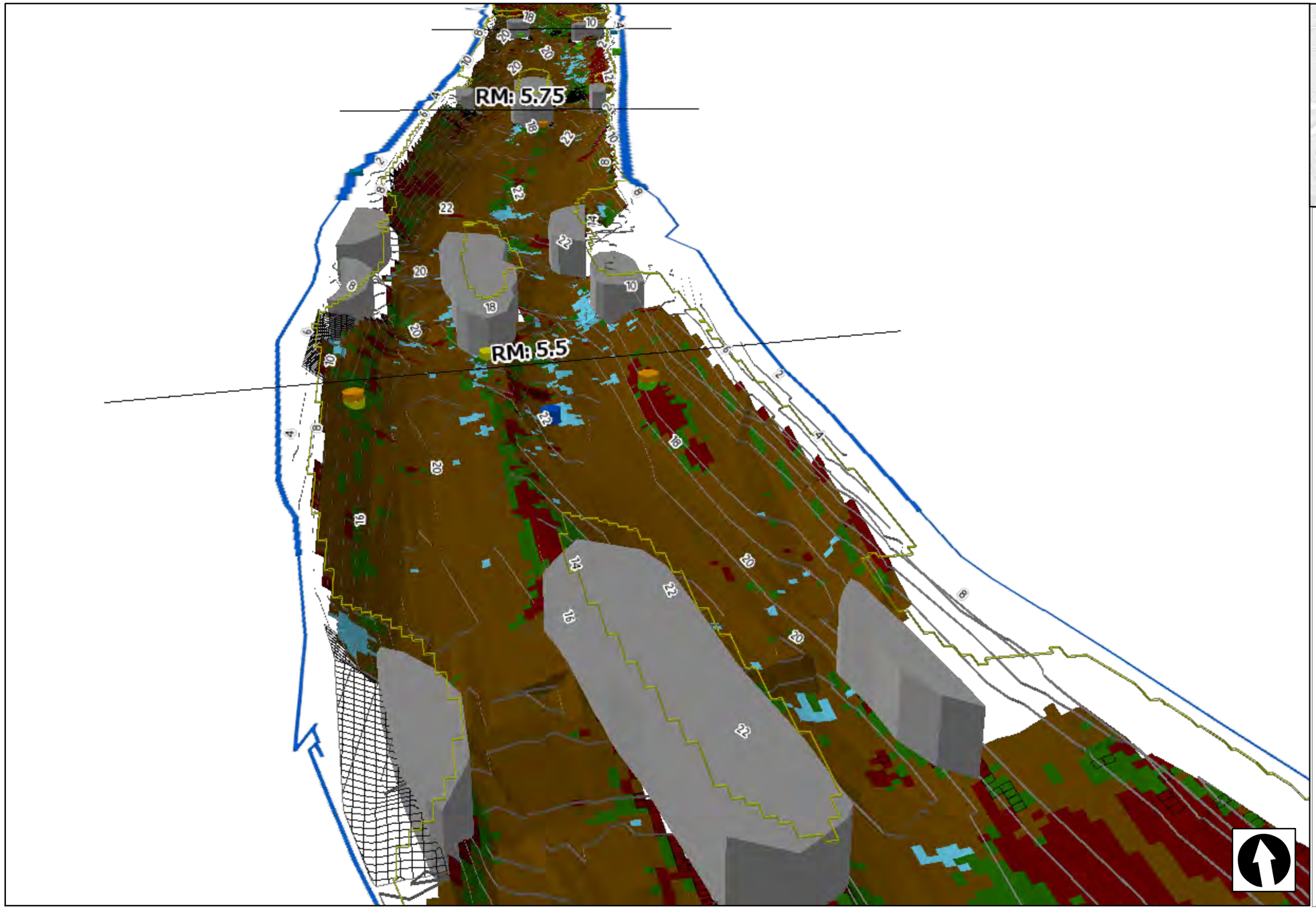
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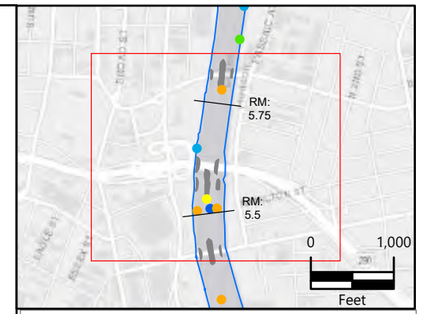
Figure 5-6e

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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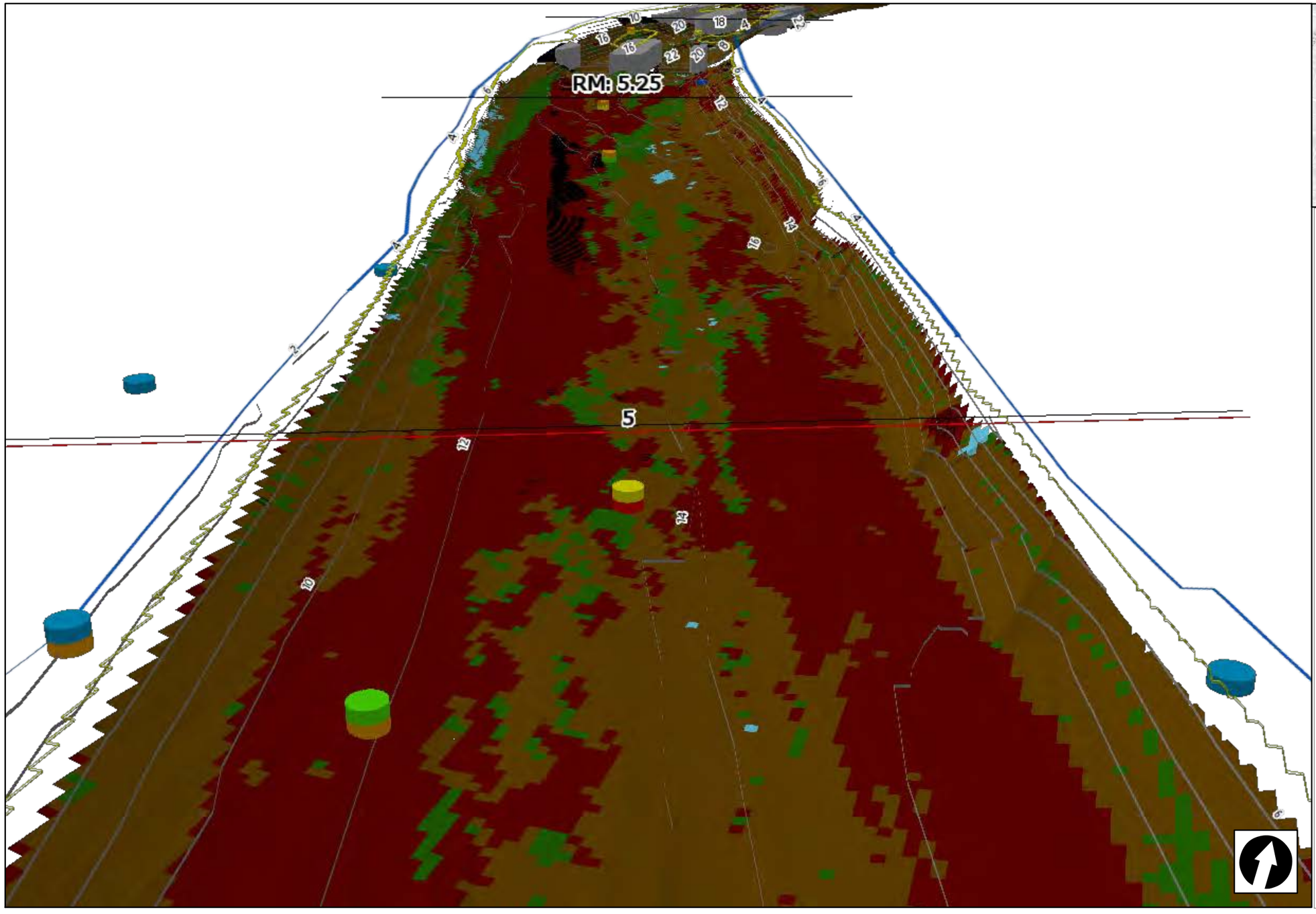
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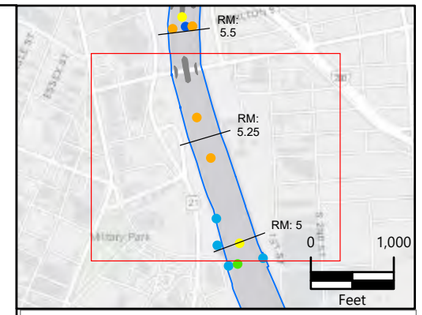
Figure 5-6f

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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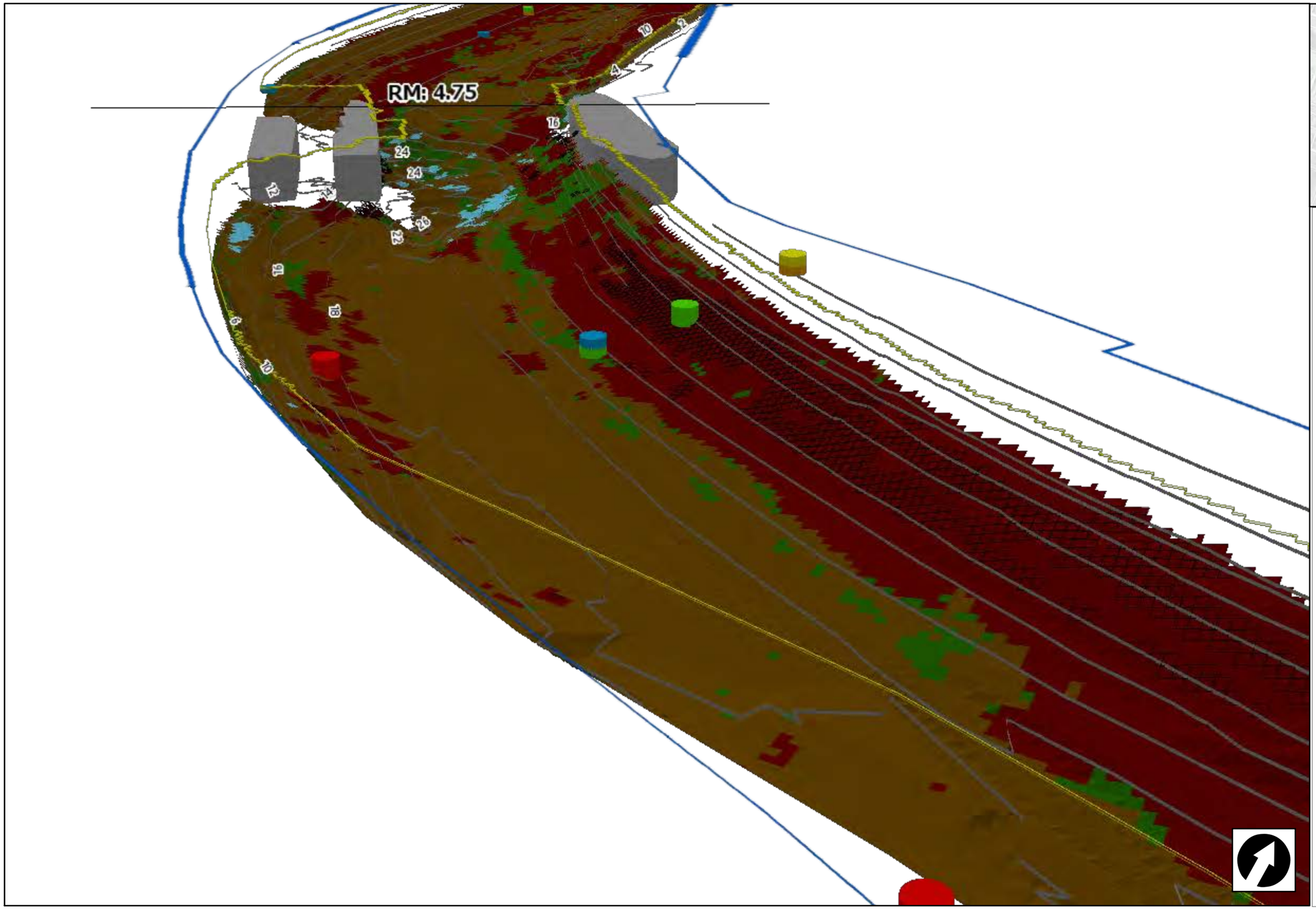
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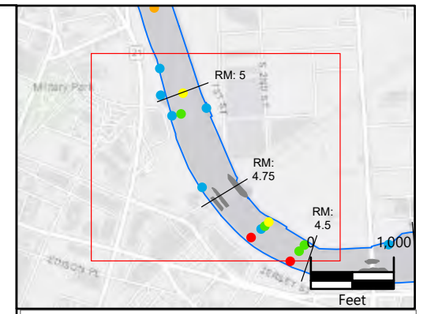
Figure 5-6g

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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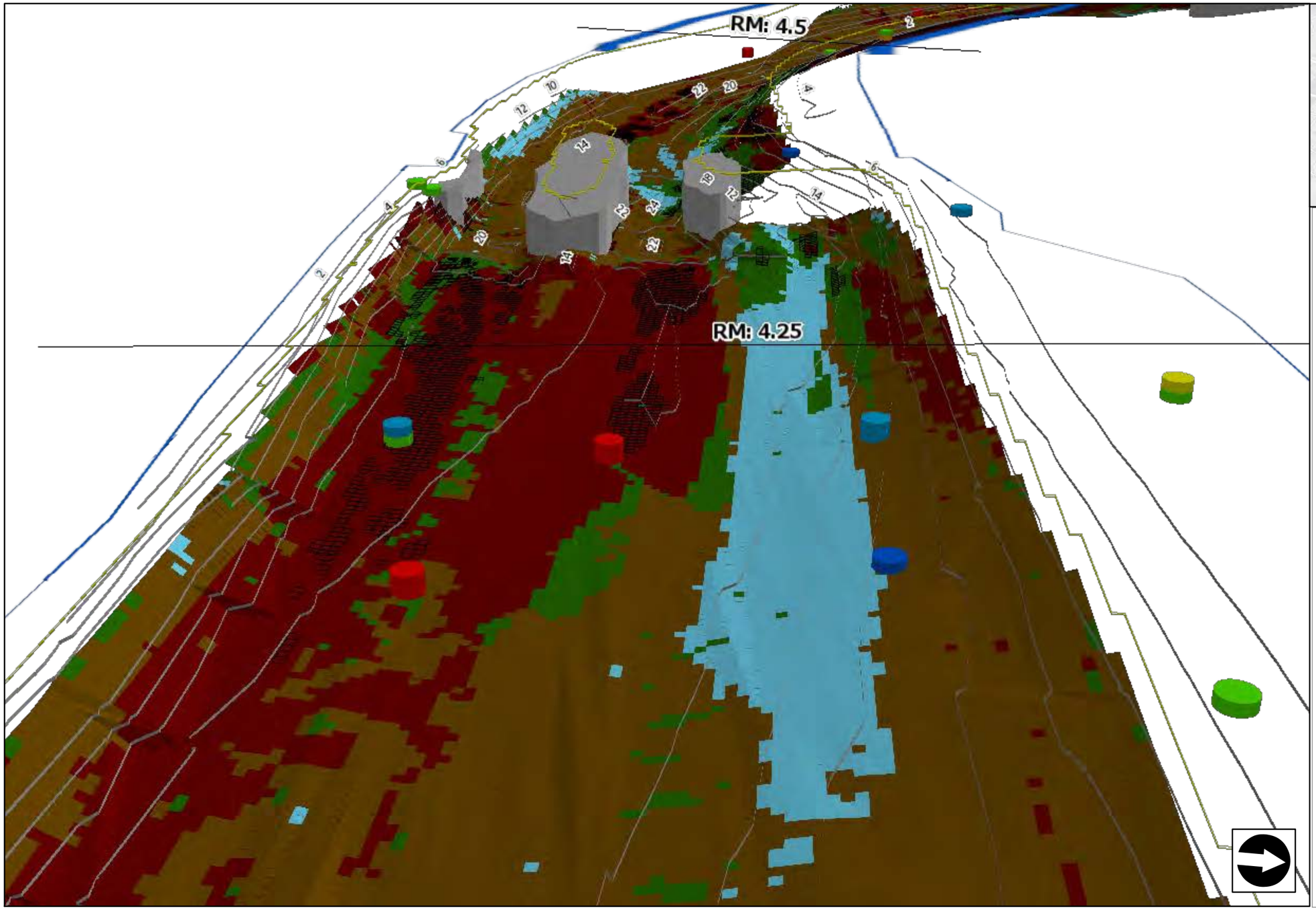
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Figure 5-7a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

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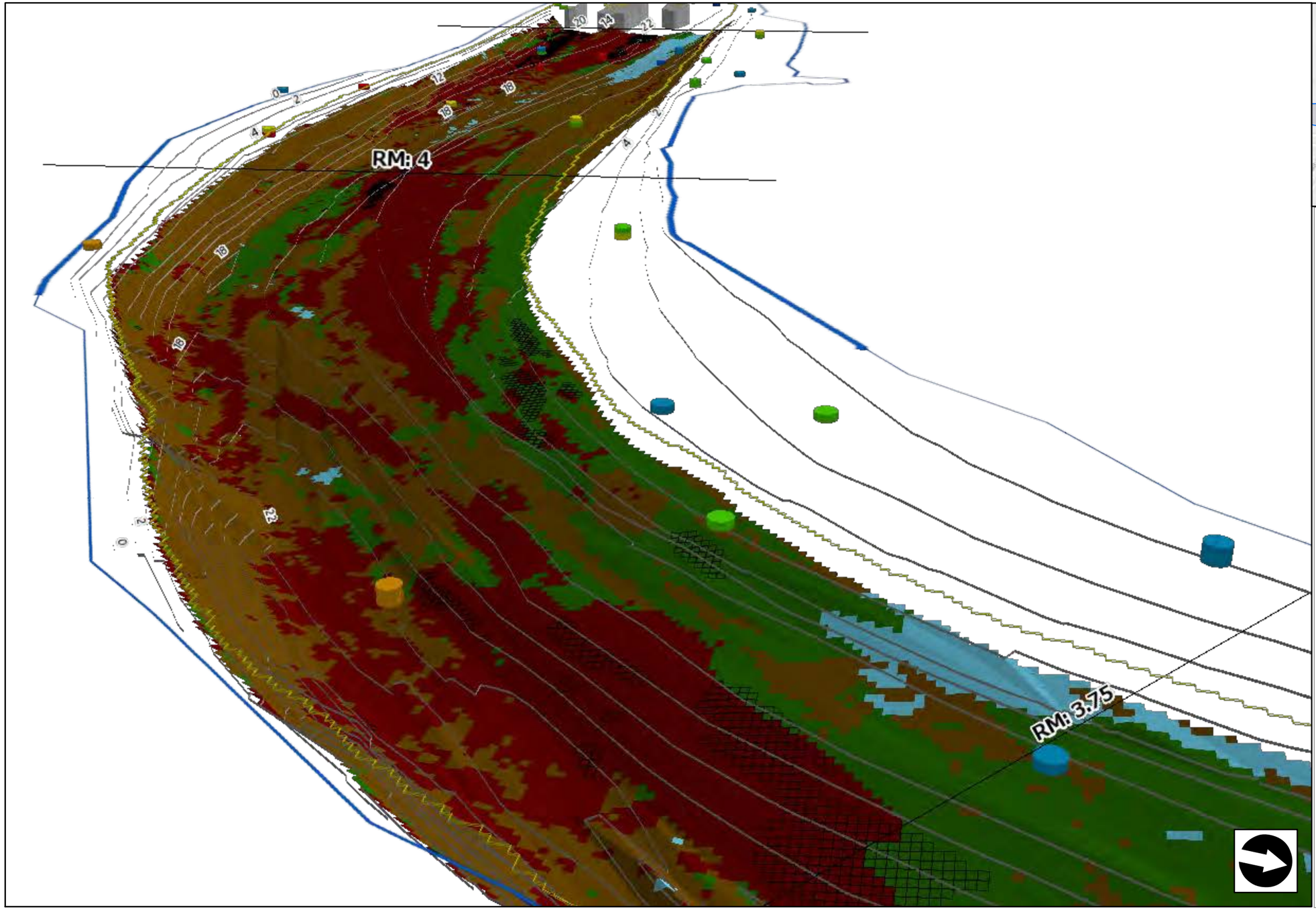
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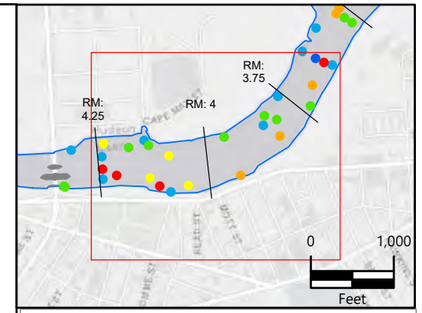
Figure 5-7b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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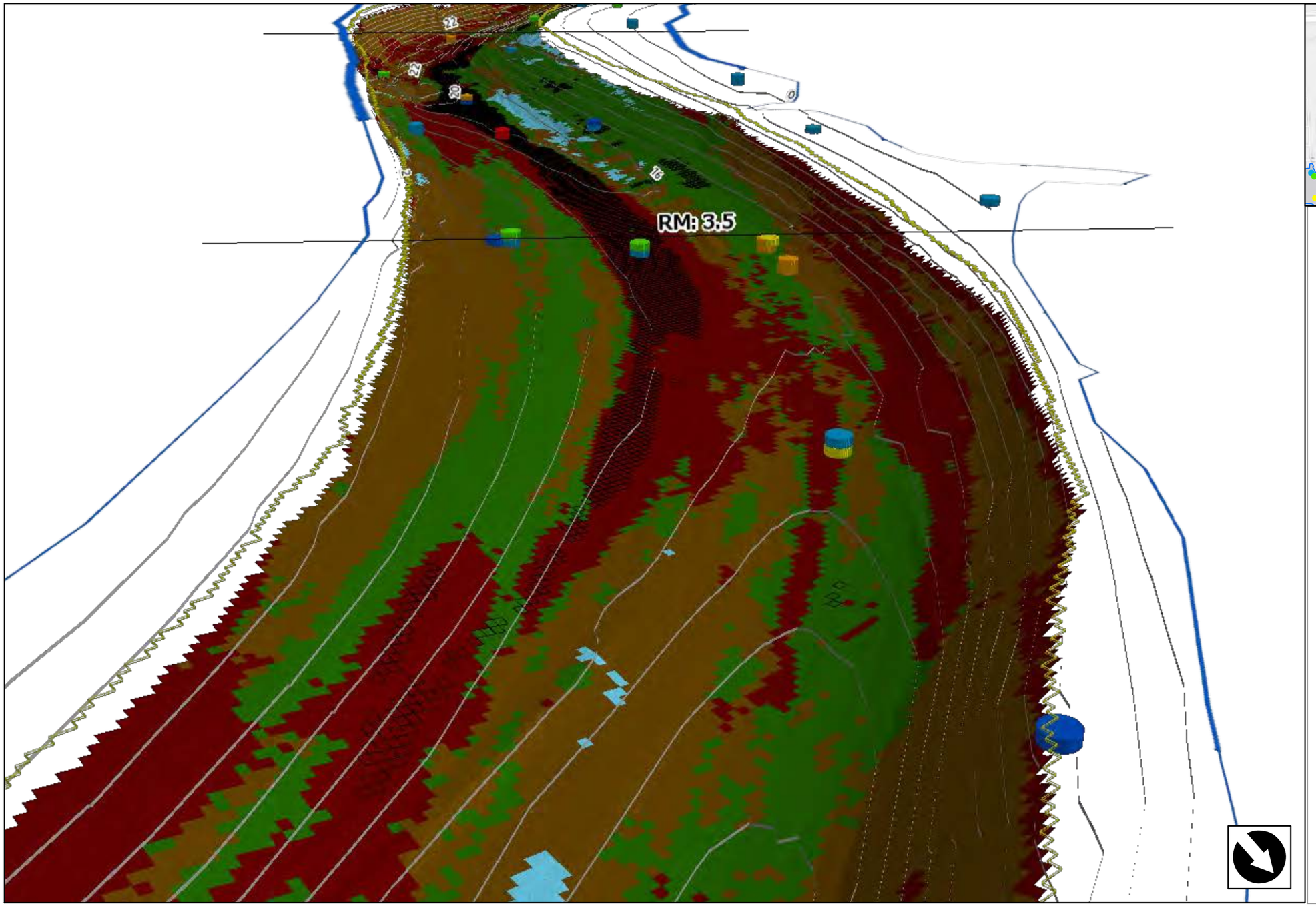
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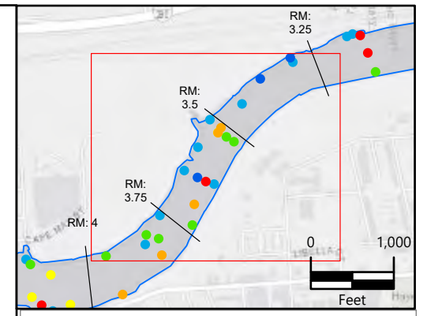
Figure 5-7c

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
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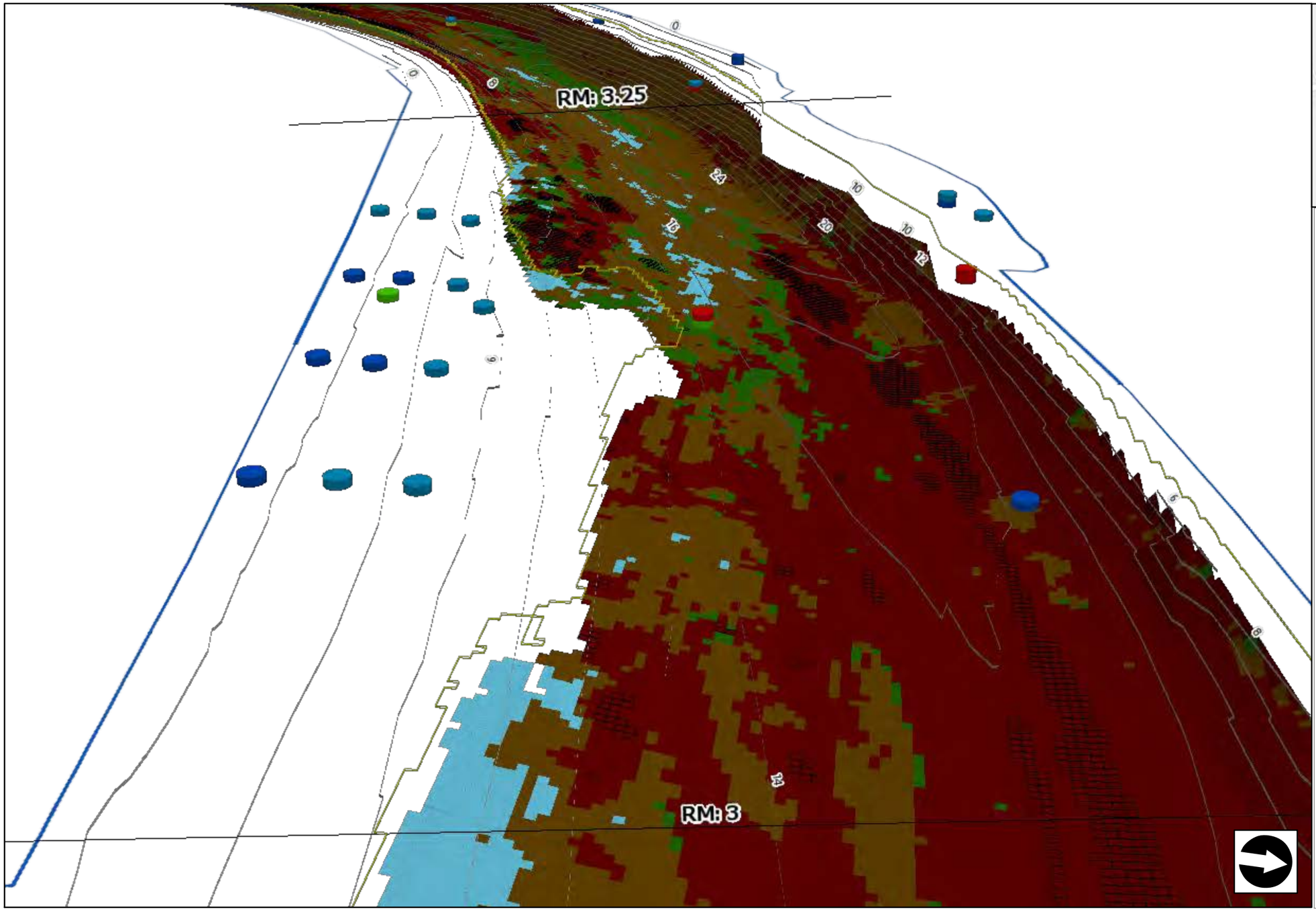
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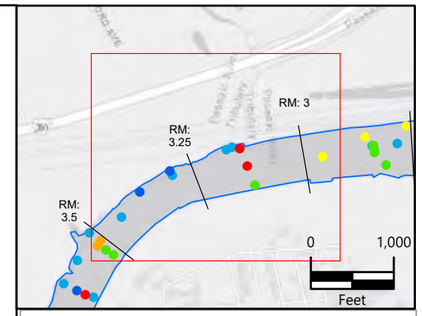
Figure 5-7d

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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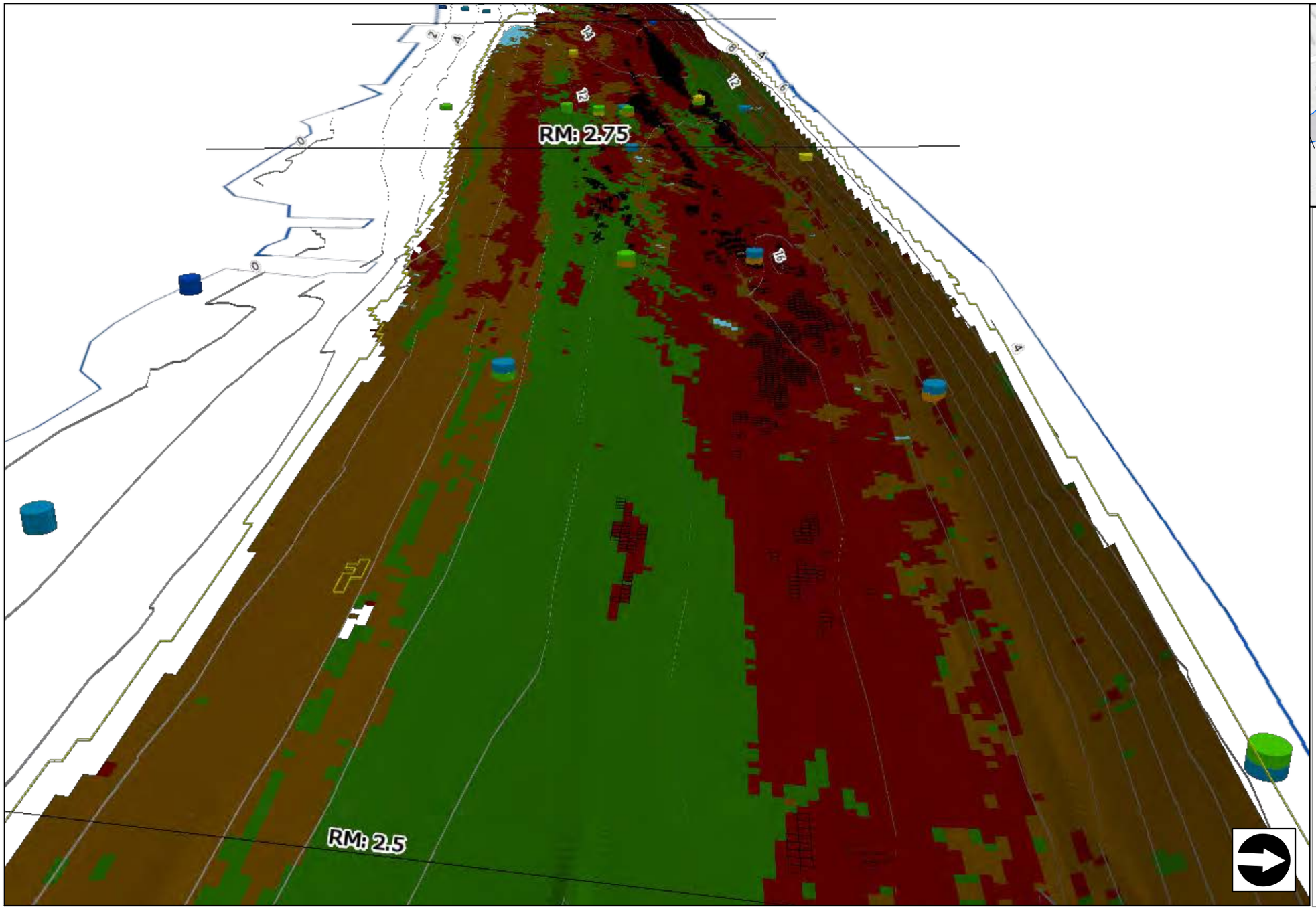
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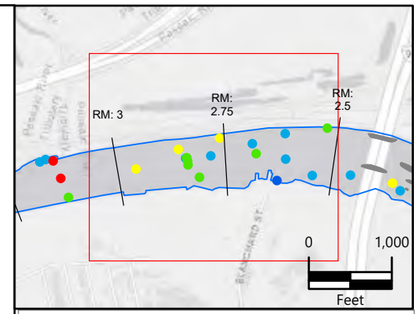
Figure 5-7e

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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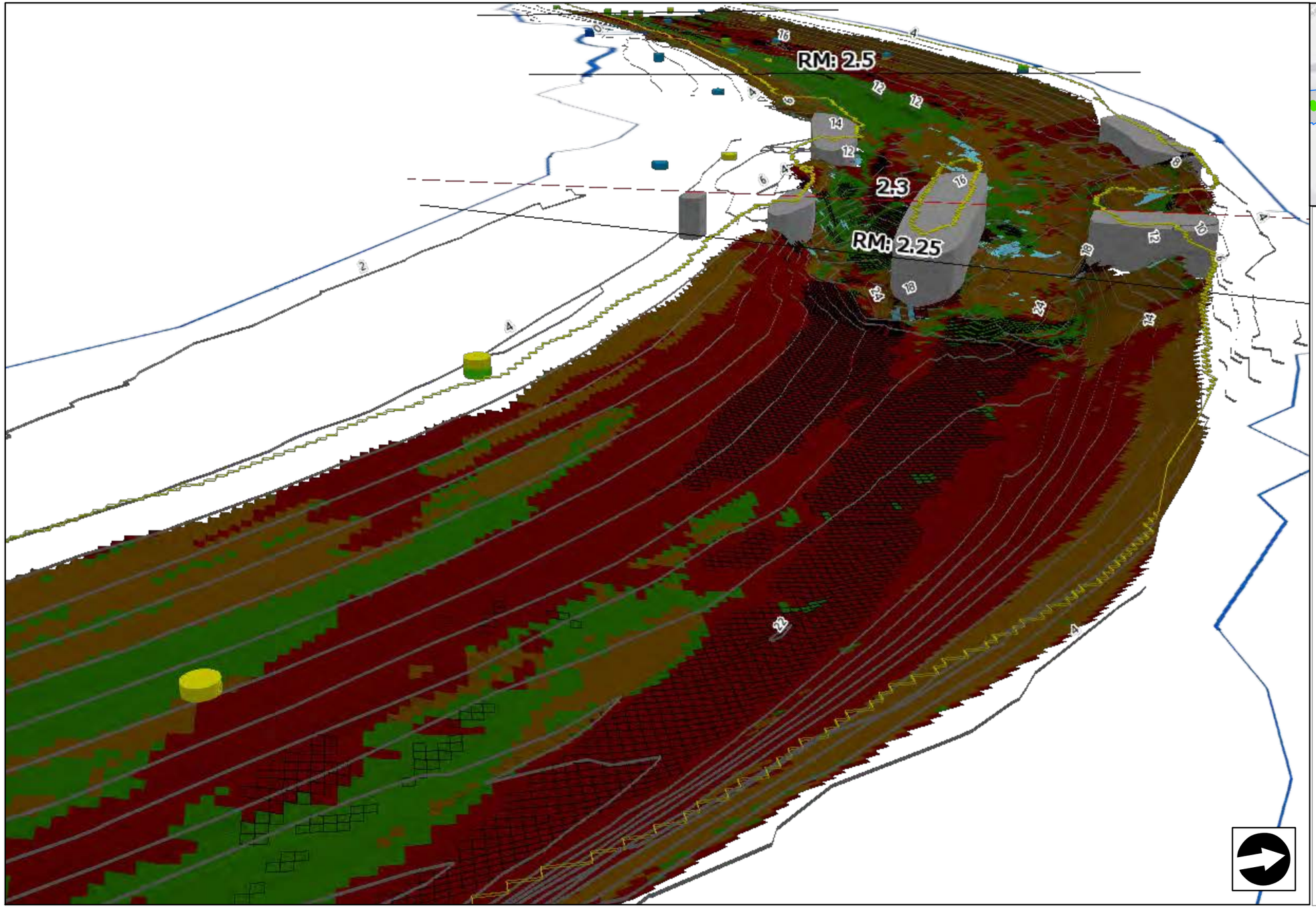
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Figure 5-7f

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
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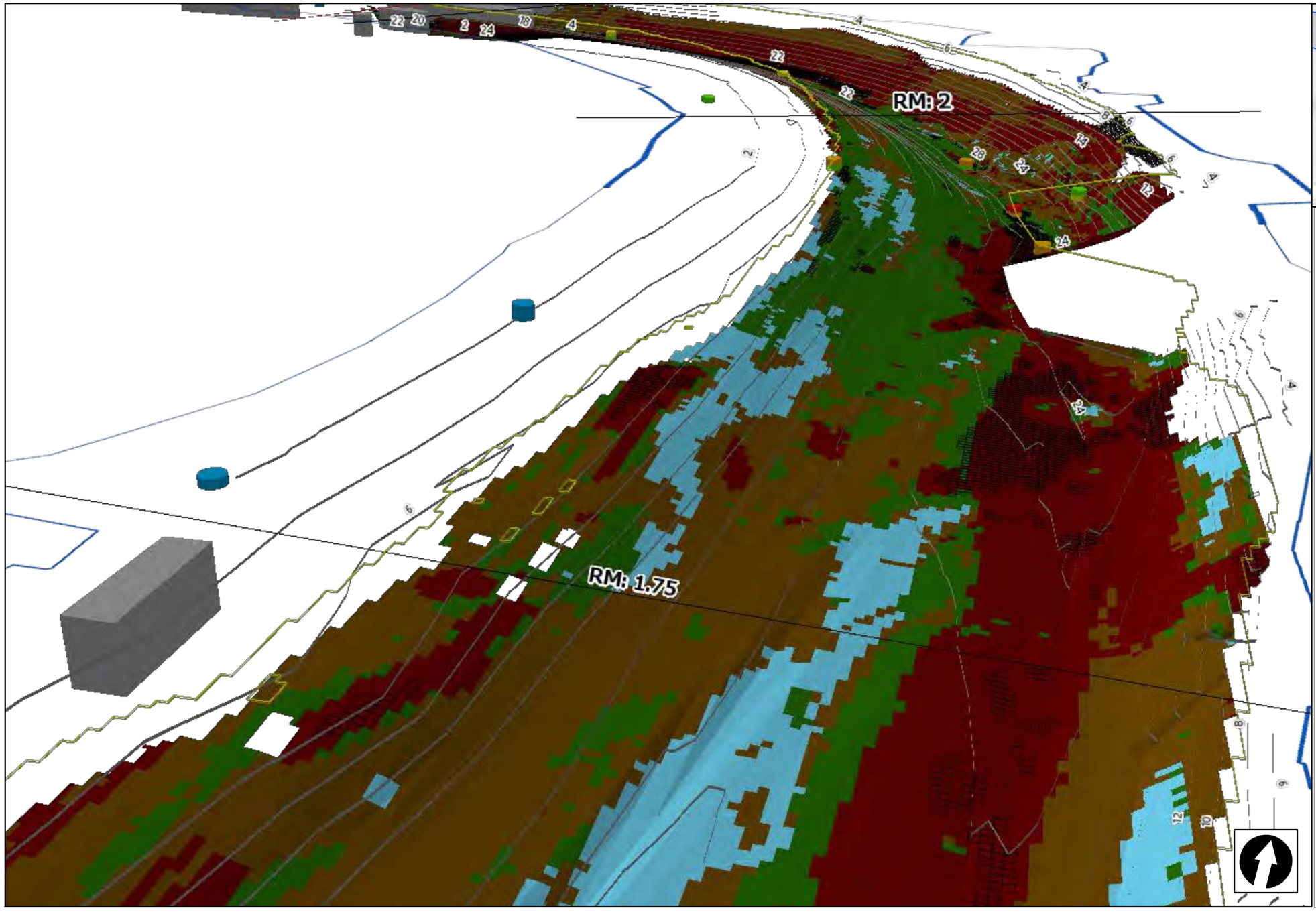
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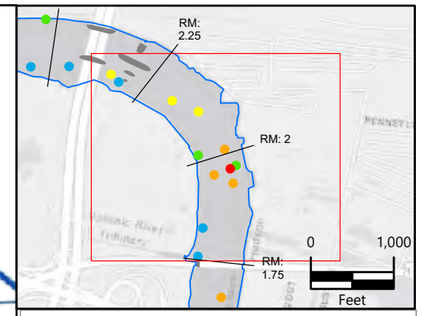
Figure 5-7g

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
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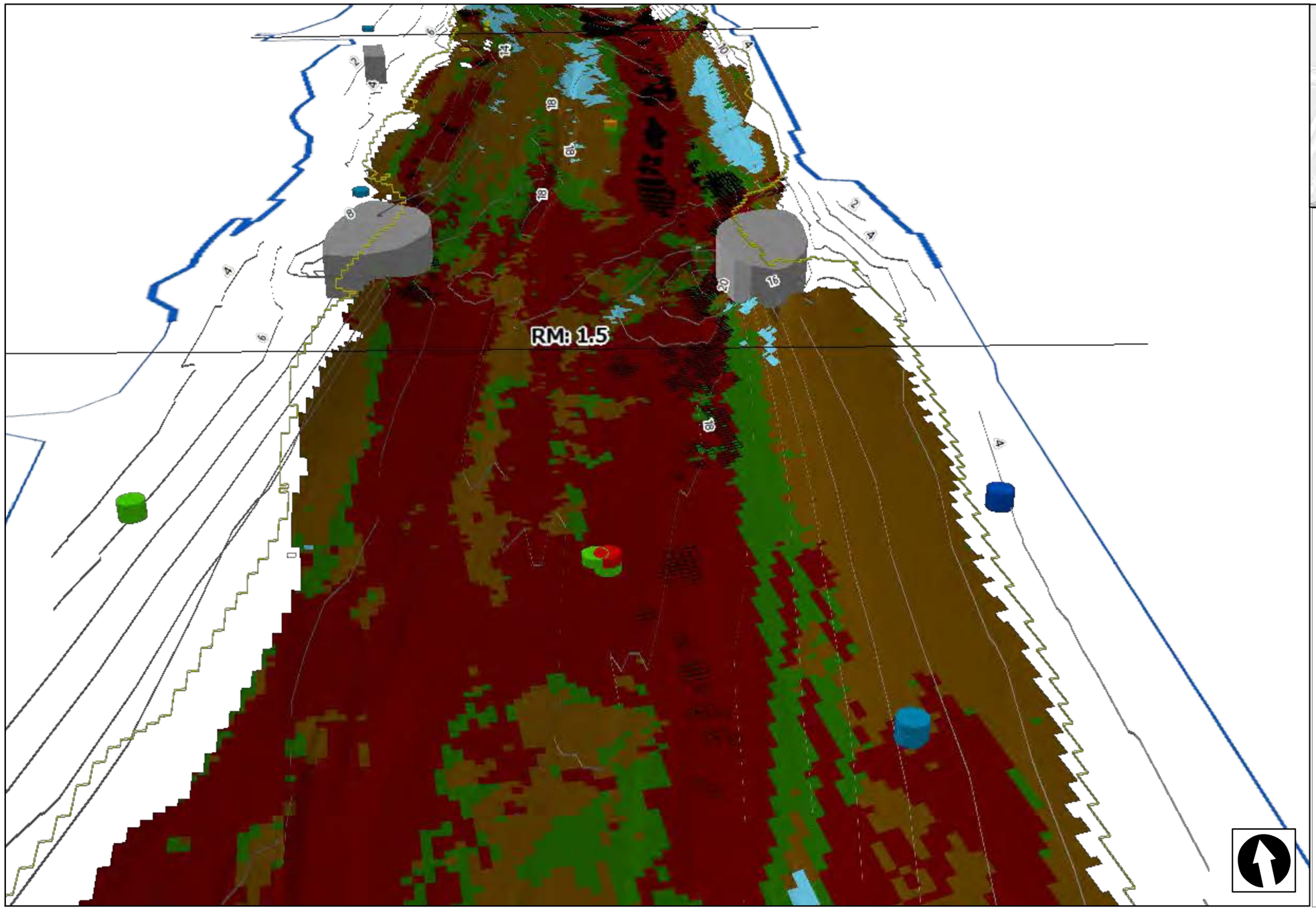
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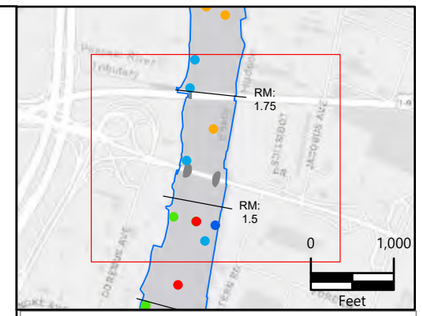
Figure 5-8a

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

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- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

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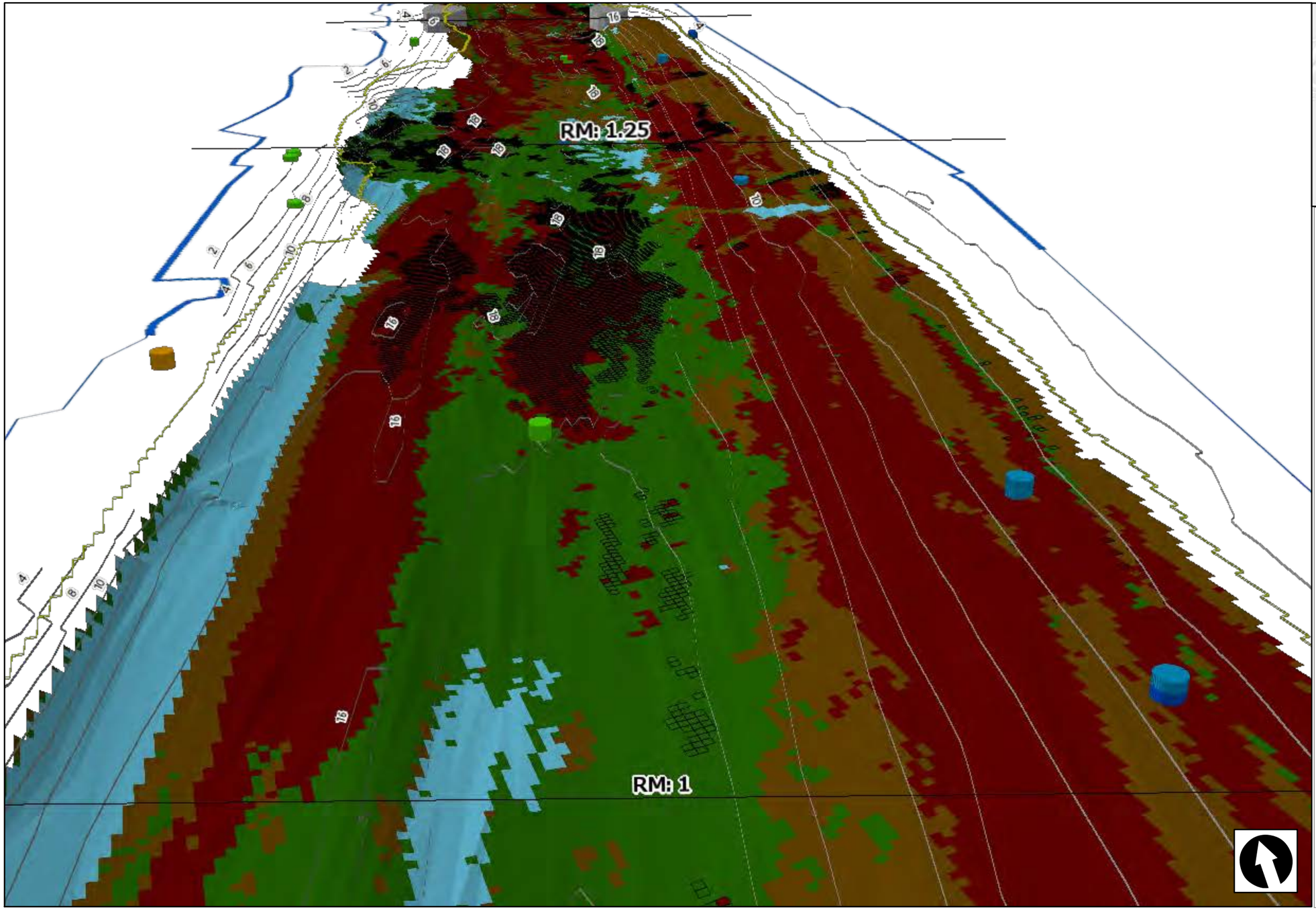
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Figure 5-8b

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study



LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
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NOTES:
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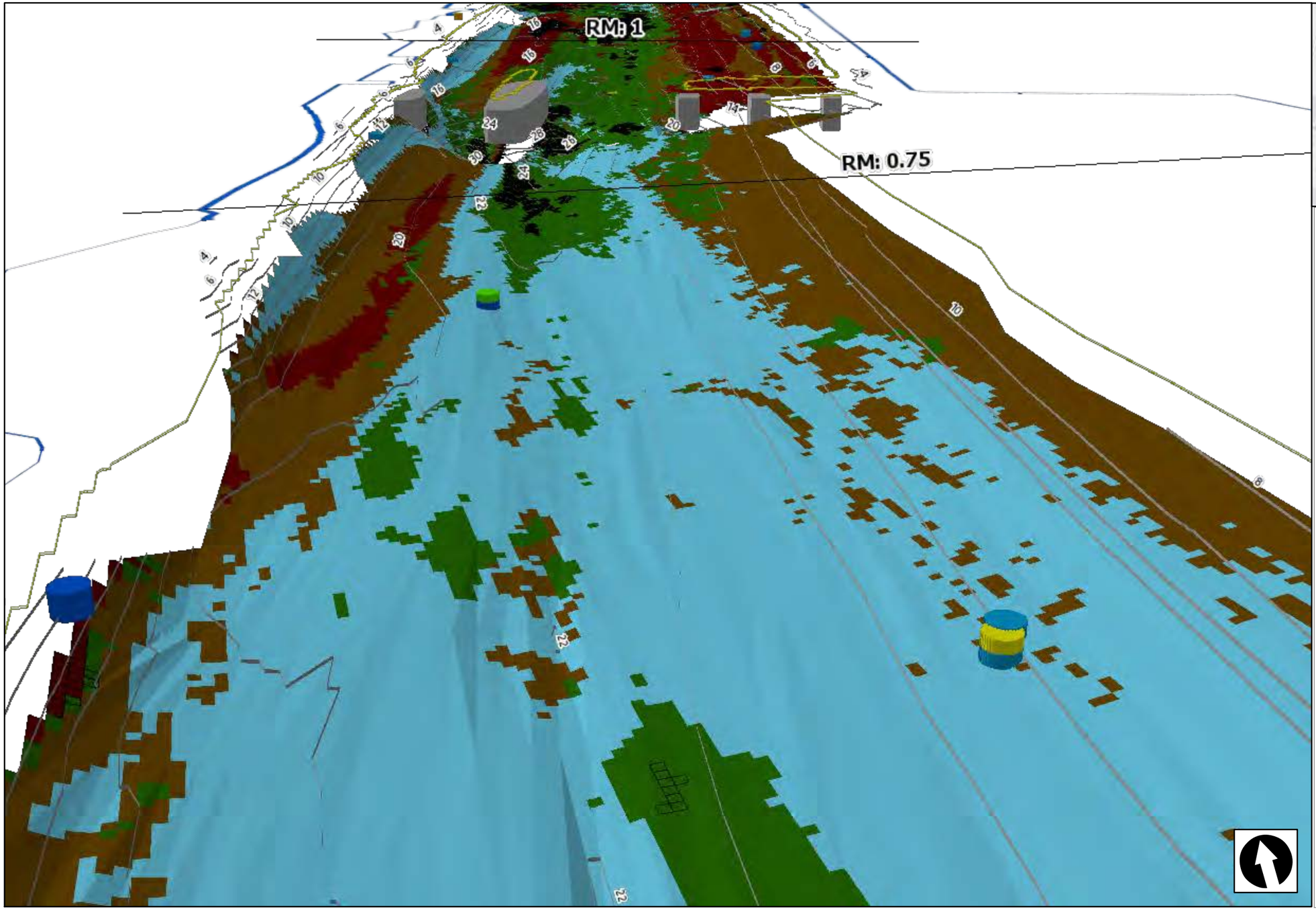
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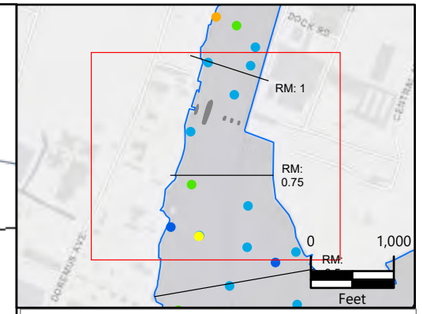
Figure 5-8c

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
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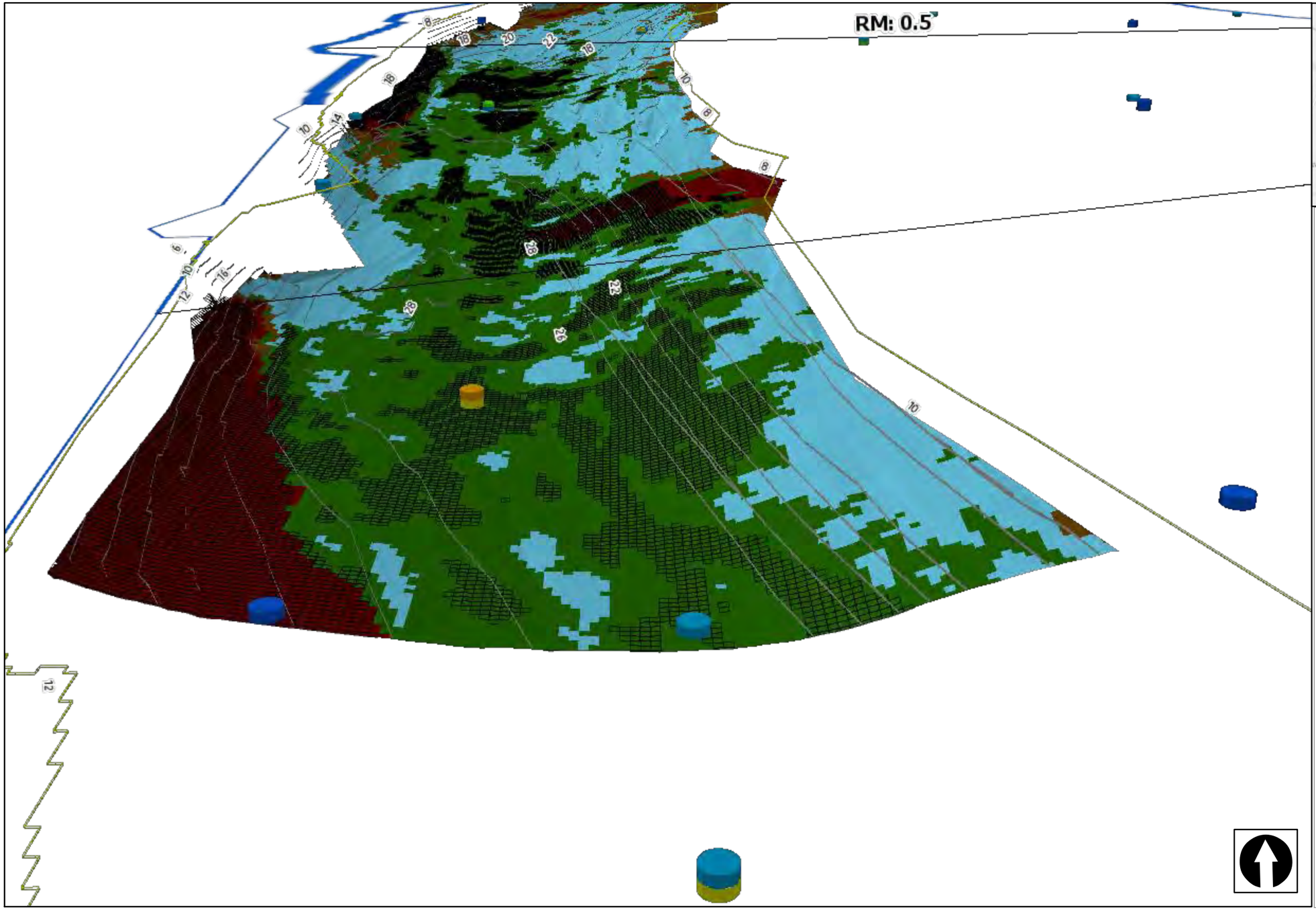
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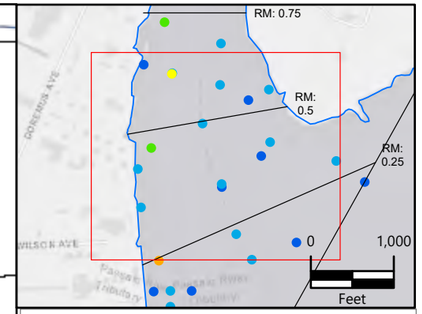
Figure 5-8d

LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study





LEGEND:

- Bathymetric Contours in feet (NGVD 29)
- Subreach Boundary
- Shoreline
- Multi-Beam Extent
- Abutment
- >1.5 feet of Erosion

LMW PAH Concentration (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

Bathymetric Change Category *

- Erosional from 2007 to 2012
- Erosion and Deposition
- Depositional from 2007 to 2012
- Change <= 6" / Temporarily Depositional

NOTES:
The inset map shows only the 0 - 0.5 feet slice, therefore locations with only a subsurface slice are not shown. In the 3D map, the top core slice is 0 - 0.5 feet and the bottom slice is 0.5 - 1.5 feet. This map displays a vertical exaggeration of 10x. Mudline elevations were not available for the samples outside of the extent of the bathymetry. The elevations for these samples were set to +2 NGVD 29 to allow them to be mapped.
*A start year of 2007 and end year of 2012 was used for the multi-beam bathymetry. A start year of 2004 and end year of either 2013 or 2012 was used for single-beam bathymetry. Erosion > 1.5 feet is based on the difference between 2007 to 2012 or between the sequential bathymetry surveys in that period. Bathymetry categories are described in Section 4.1. The multi-beam bathymetry data evaluated at the 5-foot by 5-foot resolution shown here is used to distinguish differences greater than 6 inches between surveys. See Appendix A for a discussion of bathymetric uncertainty. White areas have no bathymetric change category. Contour labels are feet below mean sea level (NGVD 29). Cores located in the TCRA Area were subjected to remediation in 2013-2014.

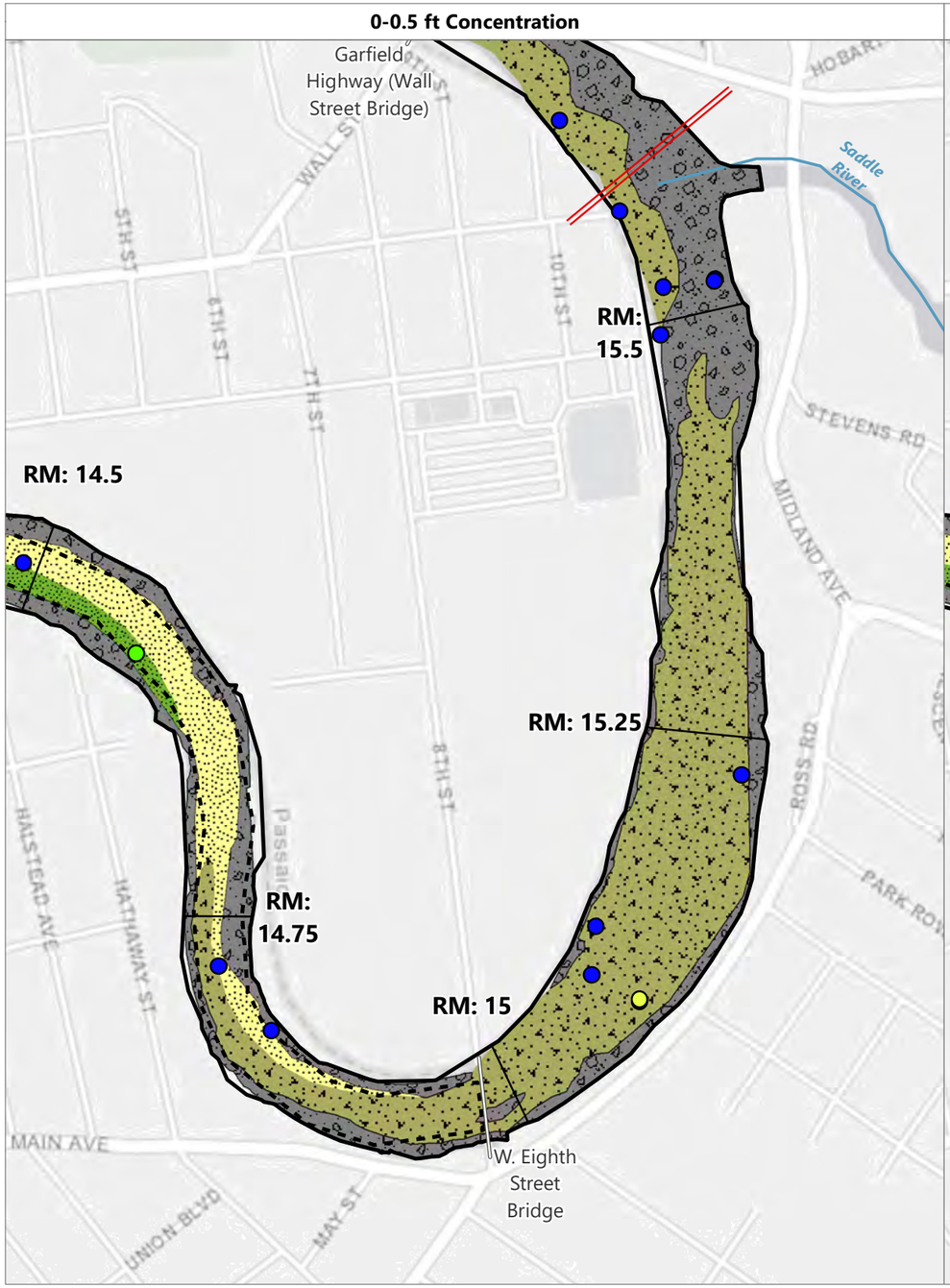
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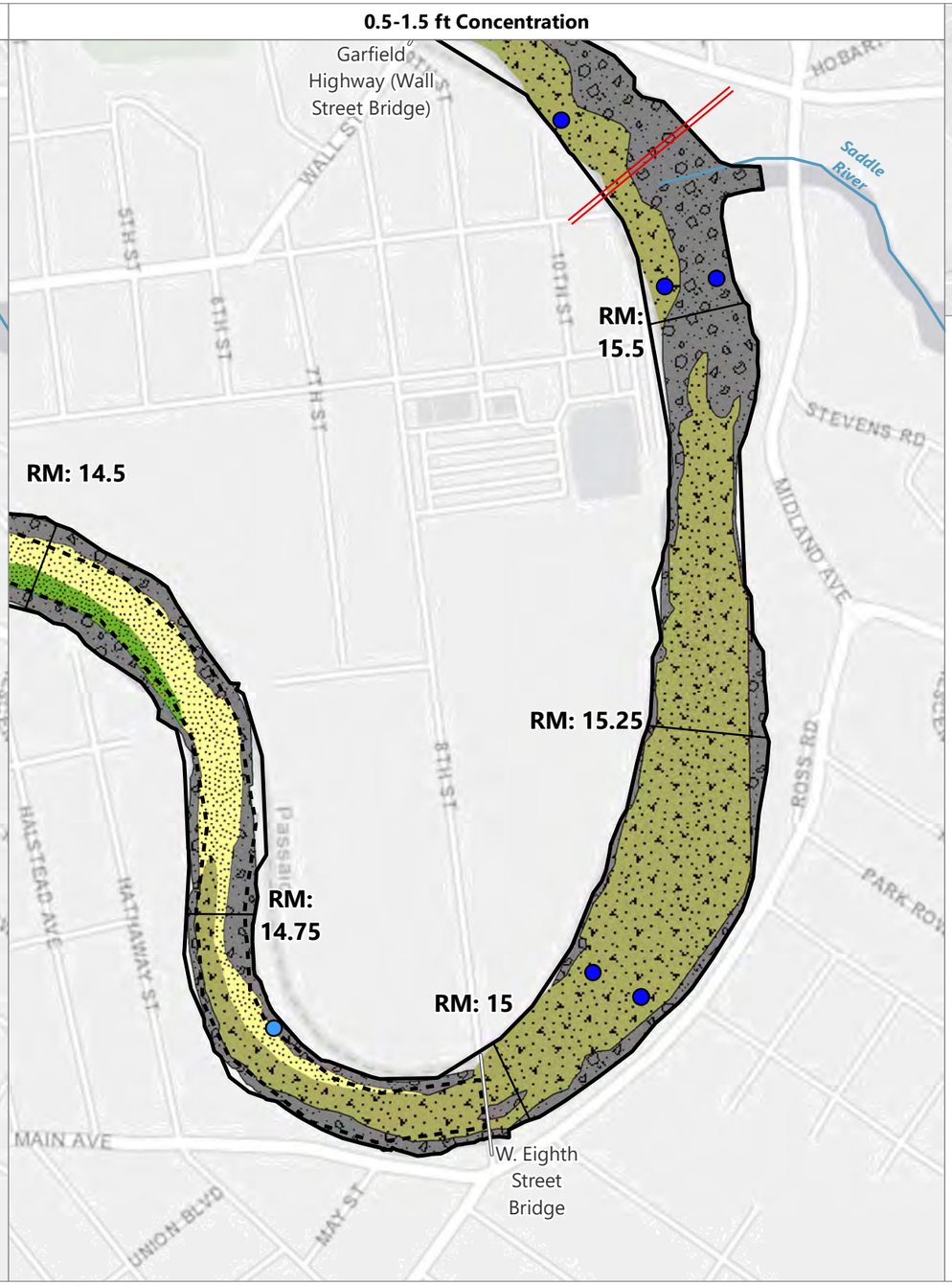
Figure 5-8e

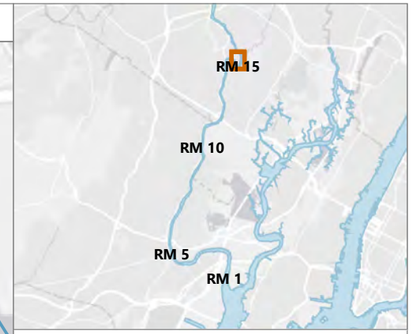
LMW PAH Surface and Subsurface Sediment Concentrations over Erosion-Deposition Patterns

Remedial Investigation Report

Lower Passaic River Study Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 800
Feet

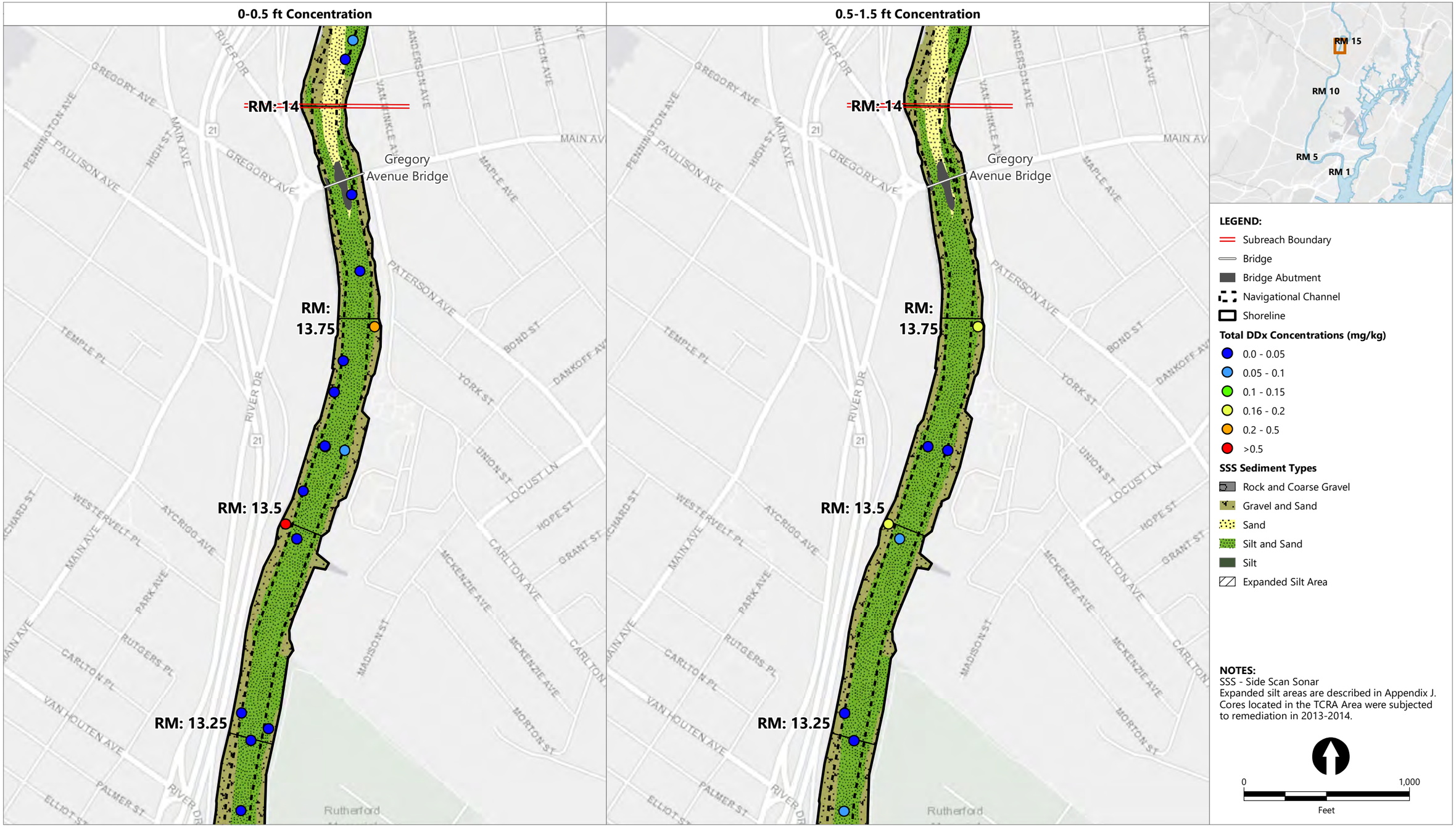
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Figure 6-1a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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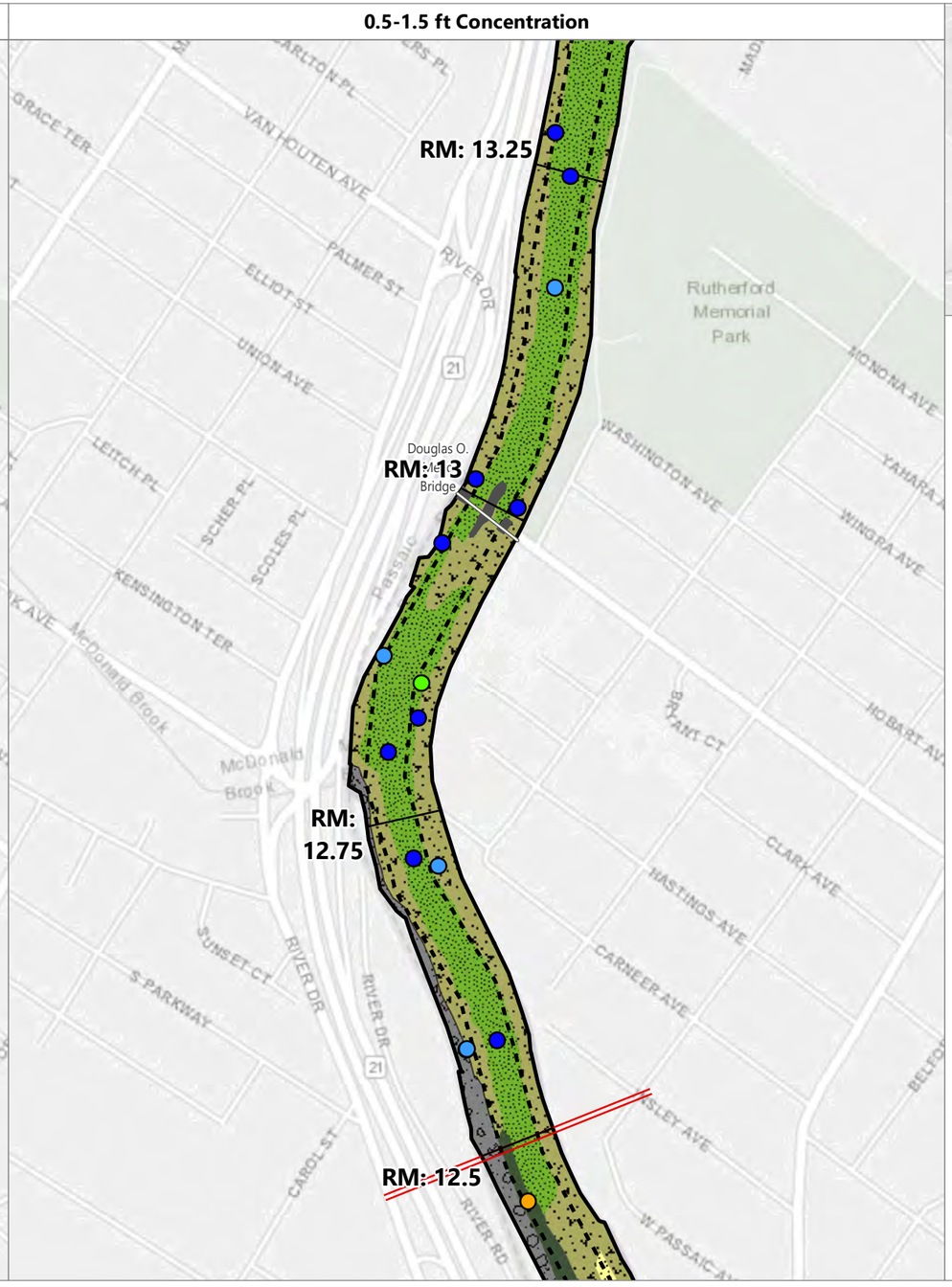
Figure 6-1b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

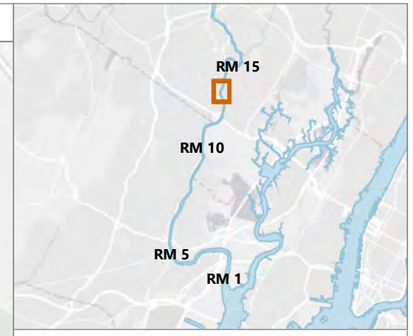


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Figure 6-2a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

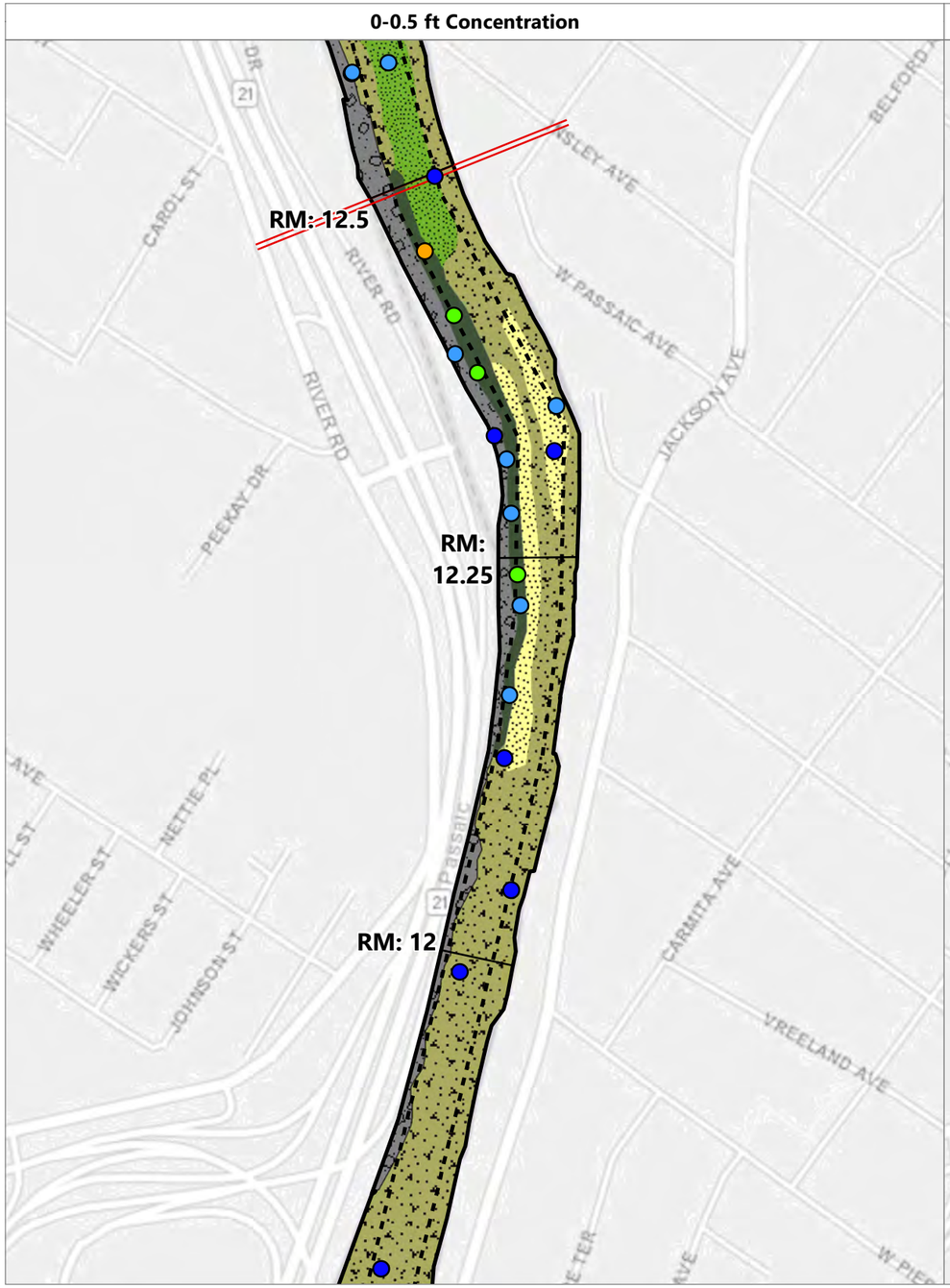
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

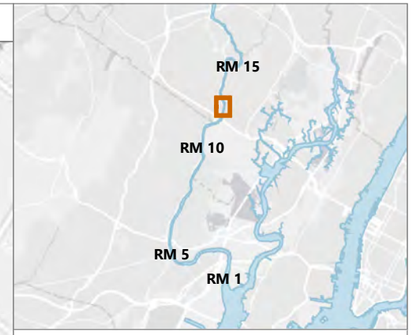
0 980
Feet

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Figure 6-2b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

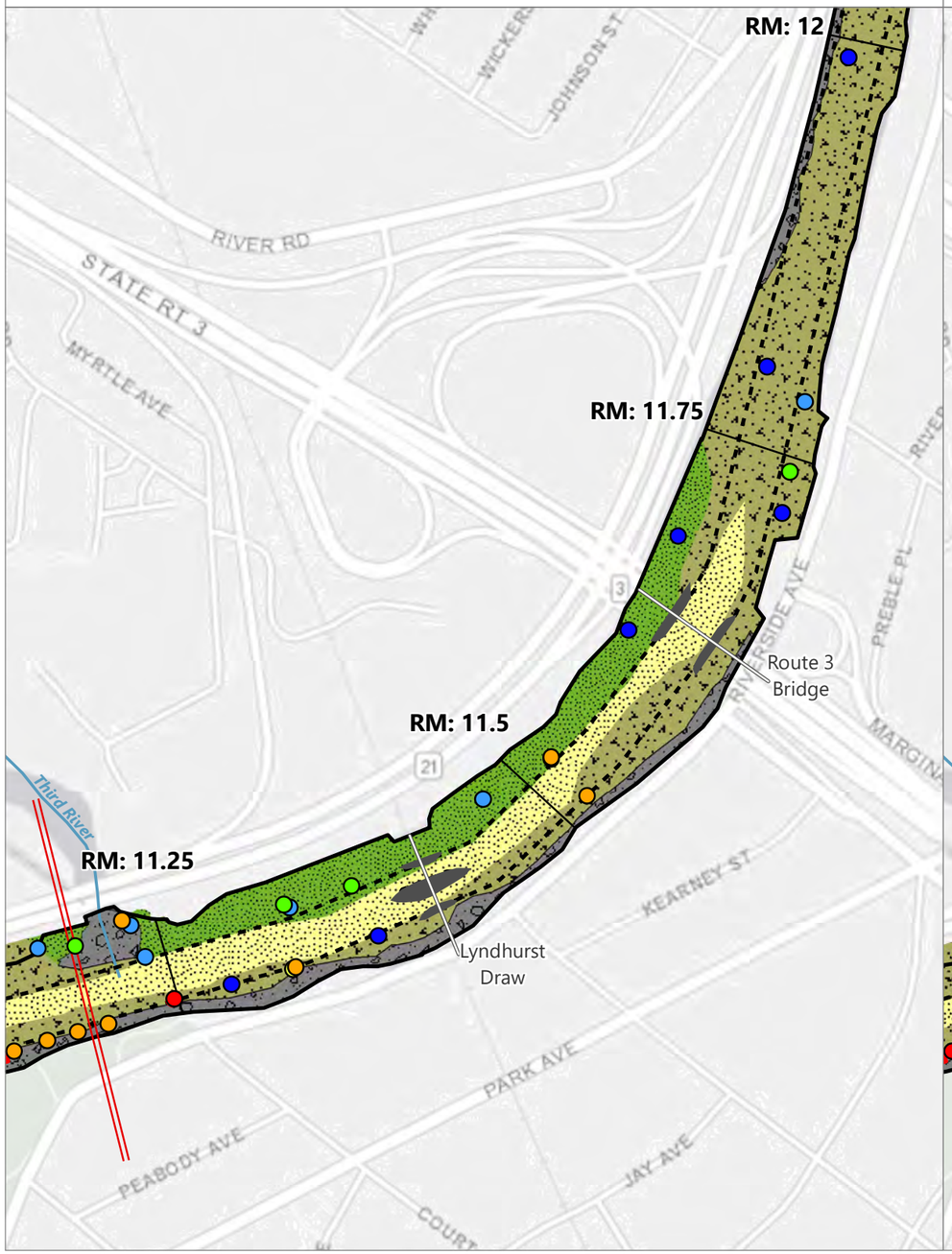
0 840
Feet

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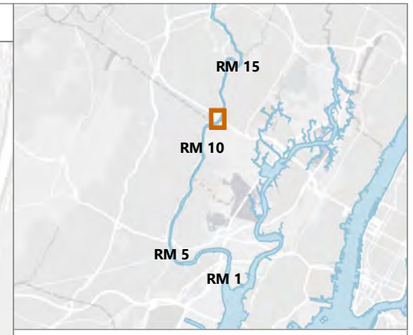
Figure 6-3a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration







LEGEND:

- Subreach Boundary
- TCRA remediated in 2013-2014
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 800
Feet

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Figure 6-3b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 6-4a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 6-5a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 6-5b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 6-6a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

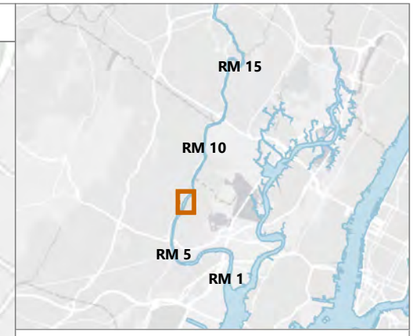


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Figure 6-6b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

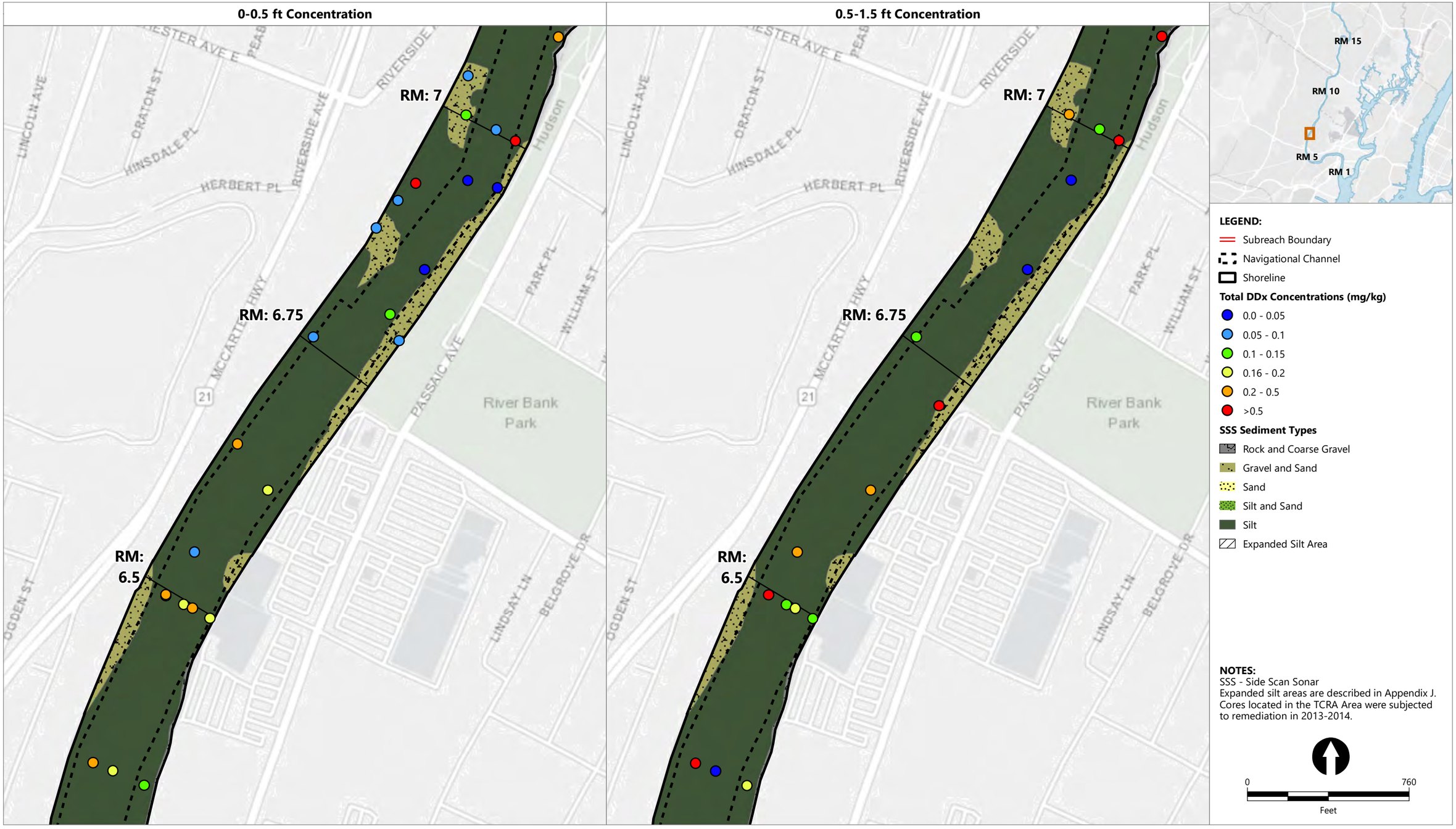
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 1,000
Feet

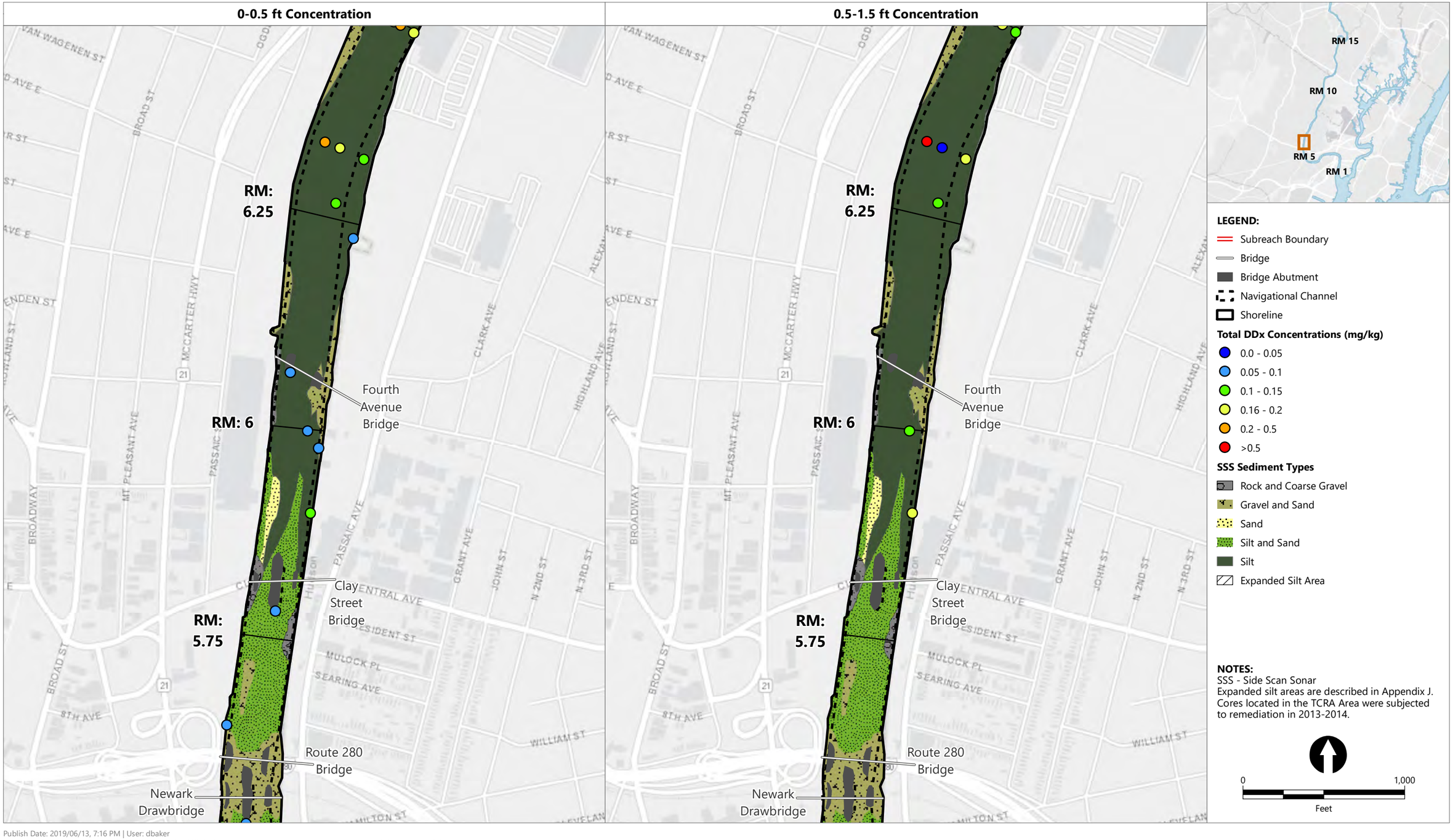
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Figure 6-7a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



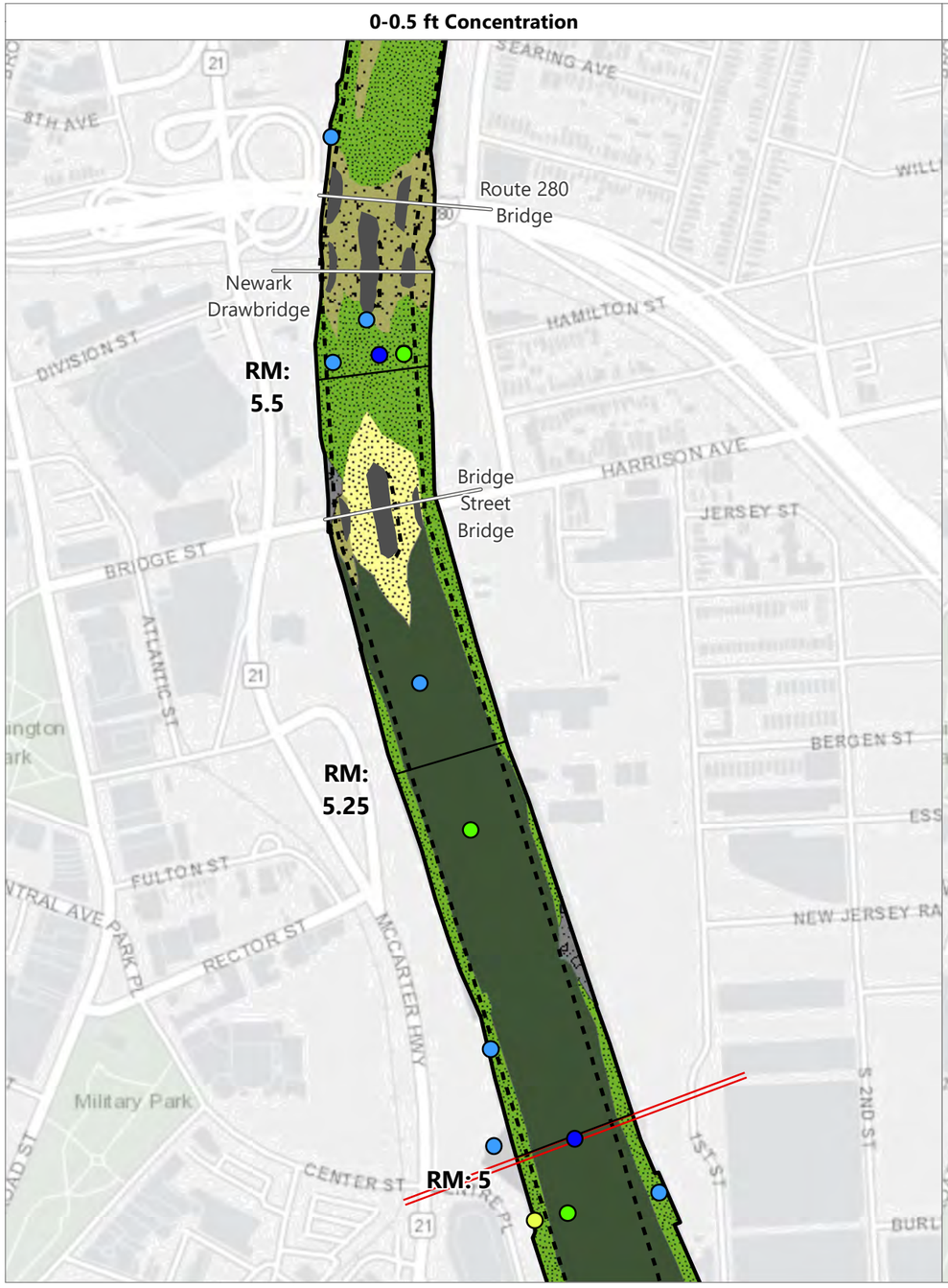
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Figure 6-7b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

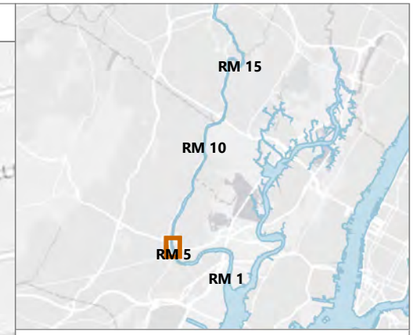


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Figure 6-7c
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

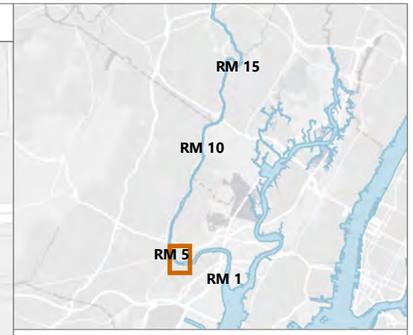
0 850
Feet

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Figure 6-7d
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 1,220
Feet

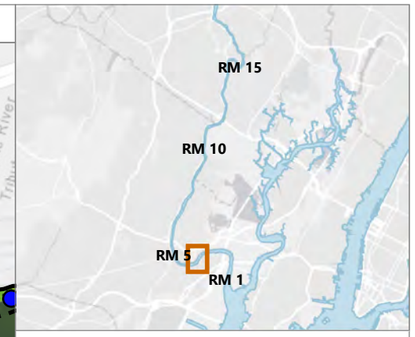
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Figure 6-8a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration





LEGEND:

- Subreach Boundary
- Navigational Channel
- Shoreline

Total DDx Concentrations (mg/kg)

- 0.0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.16 - 0.2
- 0.2 - 0.5
- >0.5

SSS Sediment Types

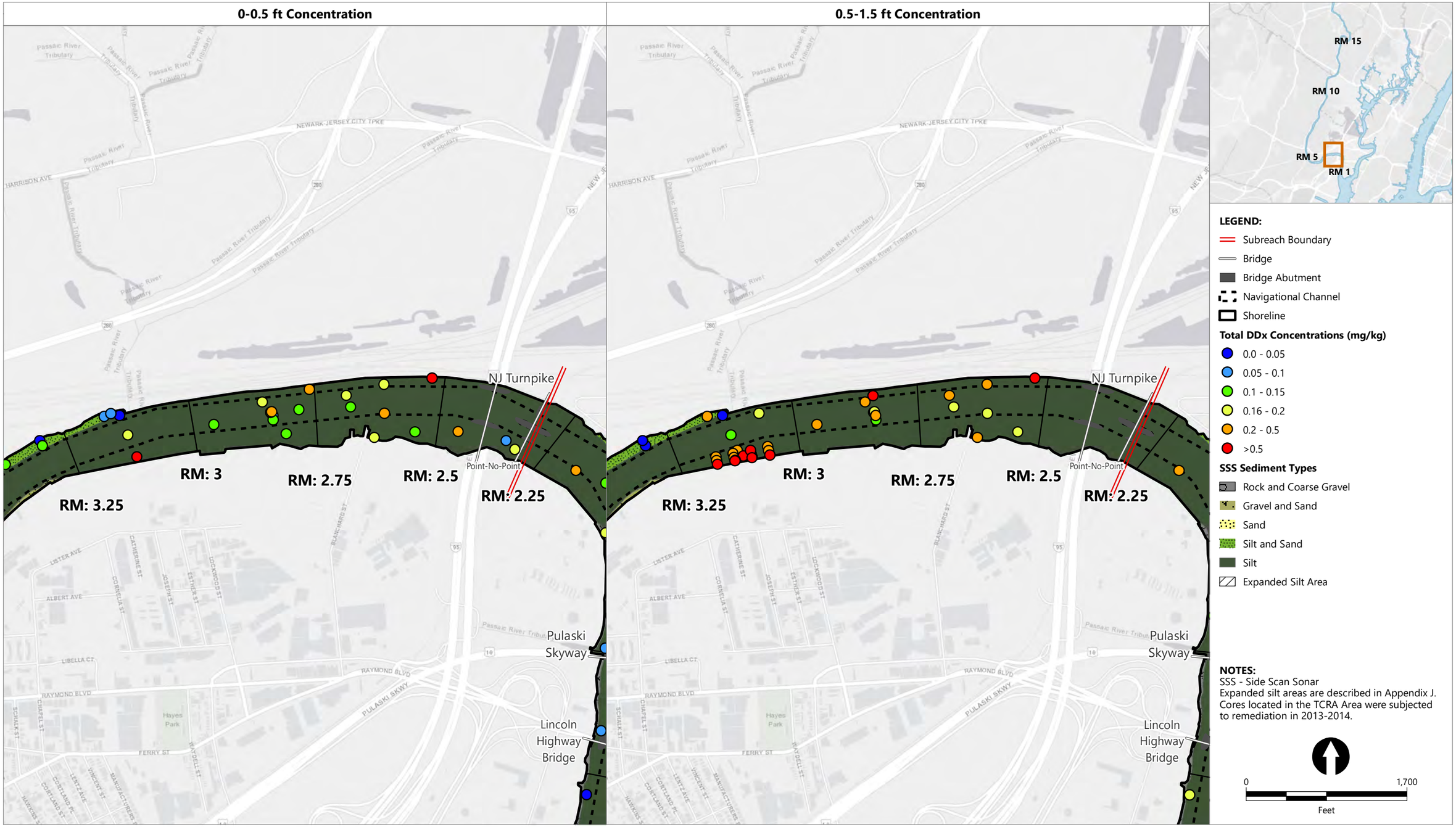
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 1,160
Feet

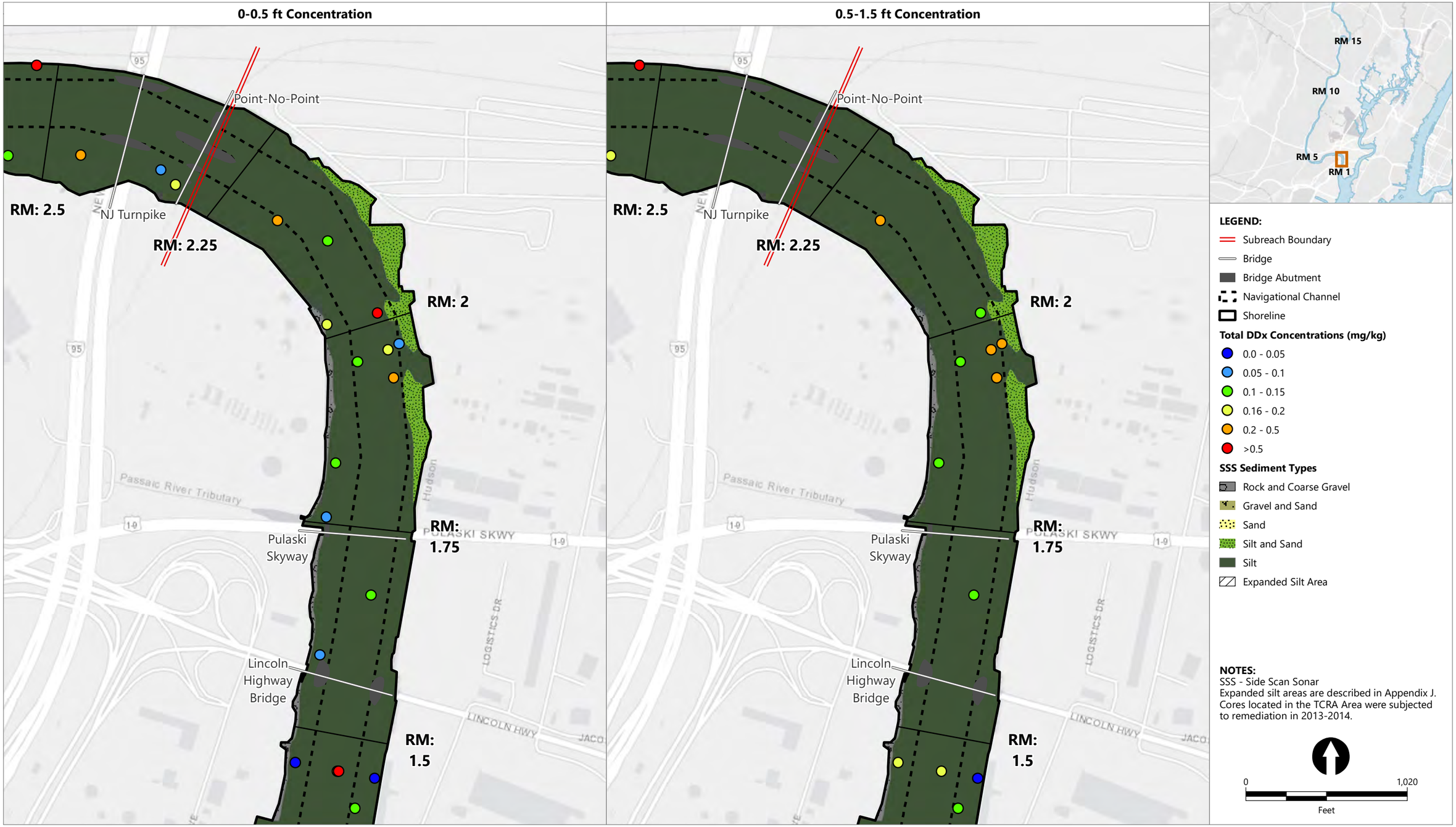
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Figure 6-8b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 6-8c
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



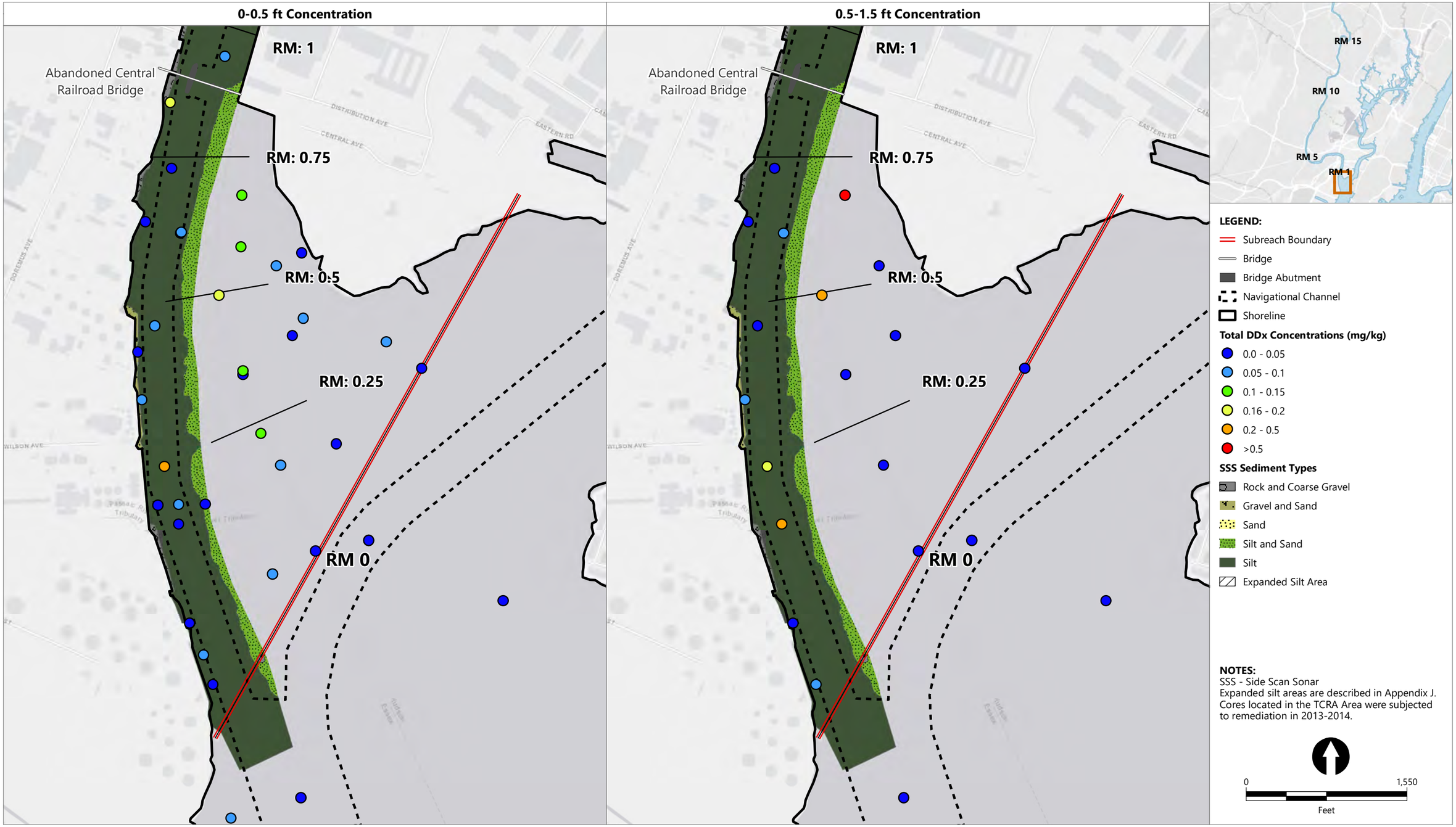
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Figure 6-9a
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



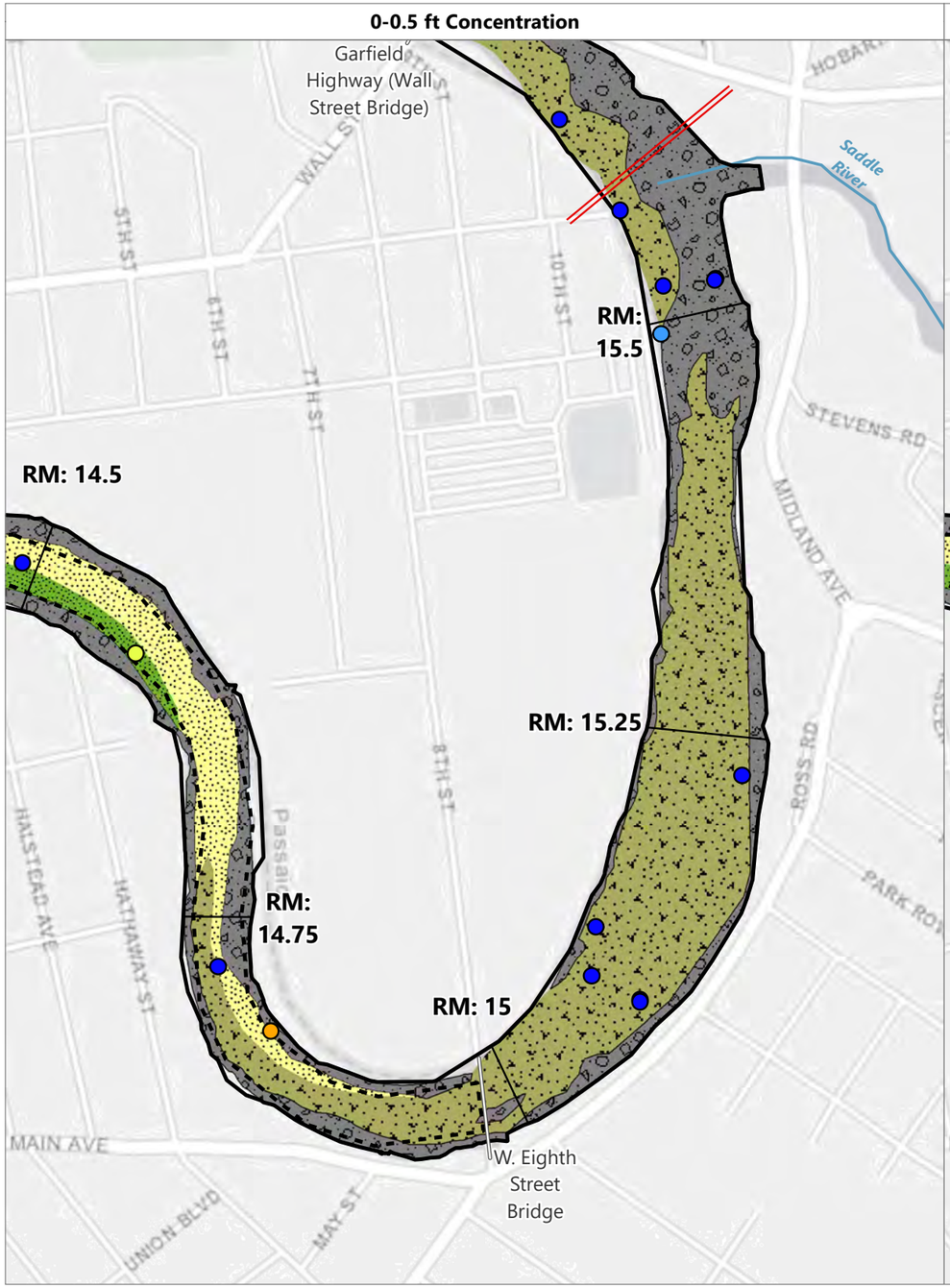
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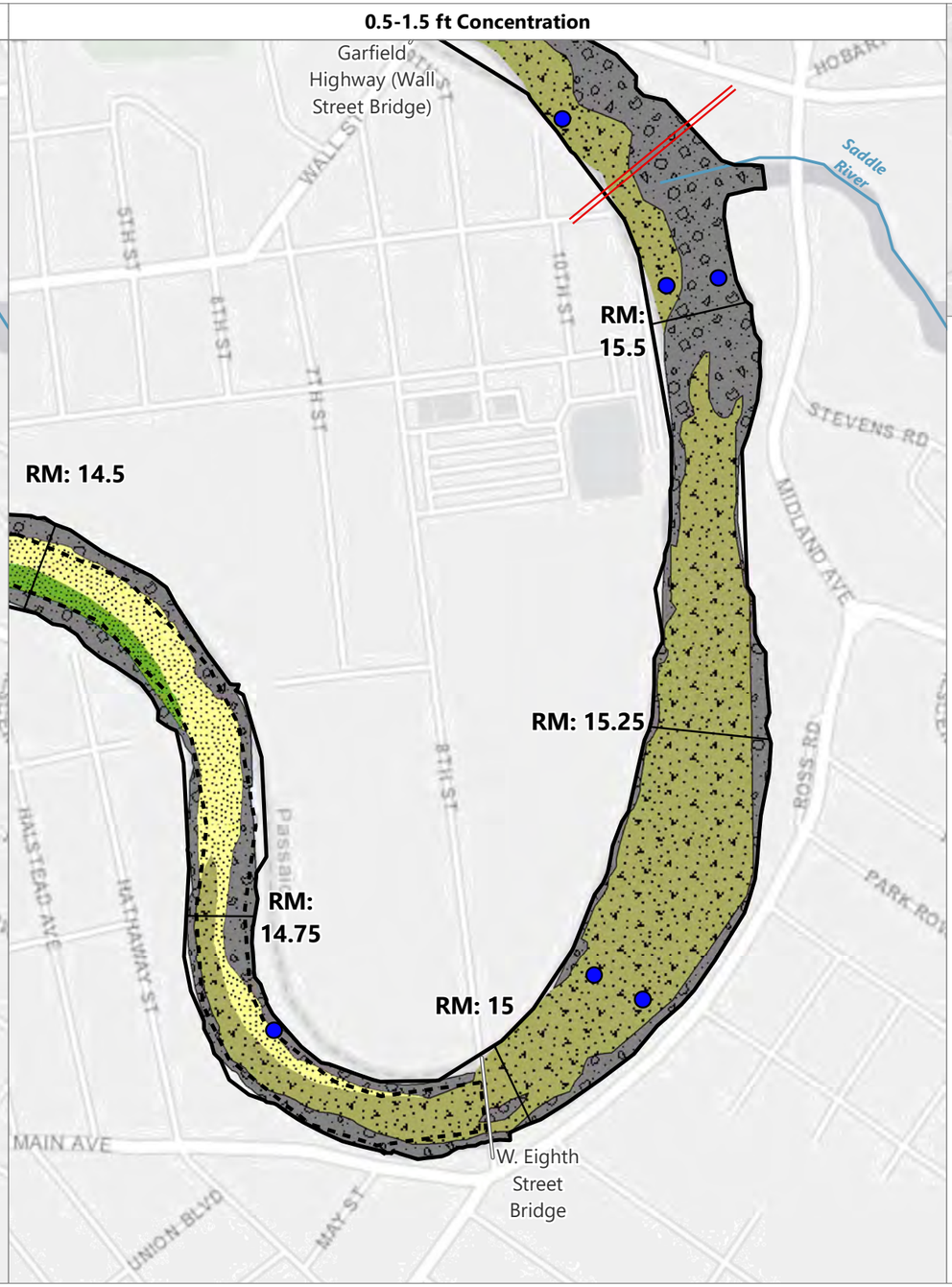
Figure 6-9b
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

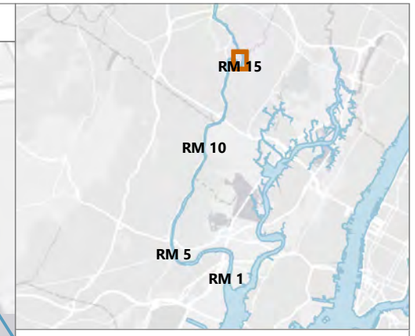


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Figure 6-9c
Surface and Subsurface Total DDx Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Navigational Channel
- Shoreline

Total Mercury Concentrations (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 780
Feet

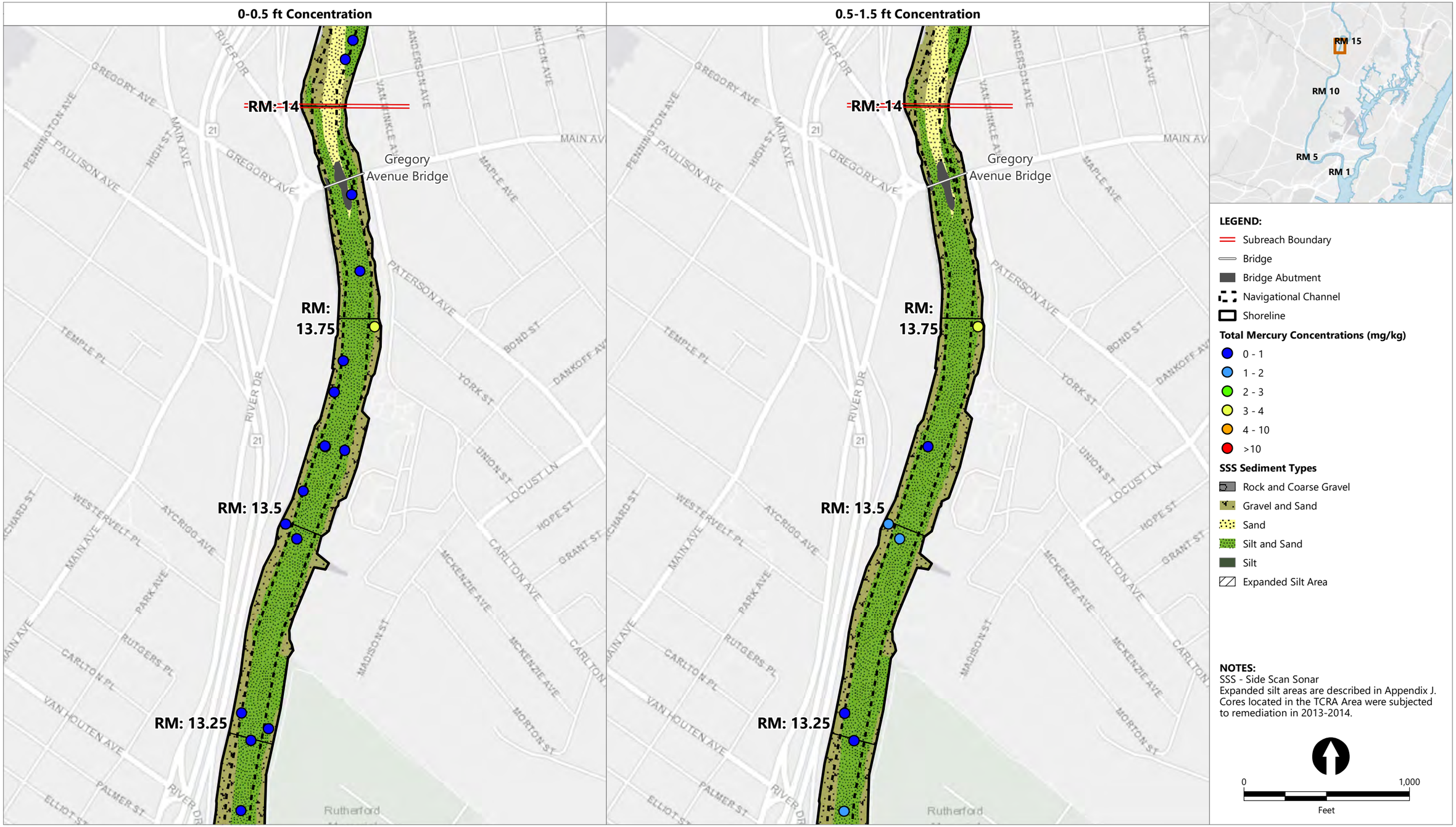
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Figure 7-1a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-1b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-2a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-2b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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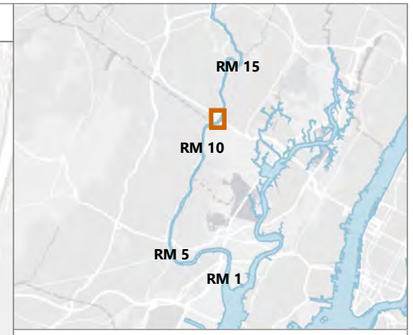
Figure 7-3a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration







LEGEND:

- Subreach Boundary
- TCRA remediated in 2013-2014
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total Mercury Concentrations (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 800
Feet

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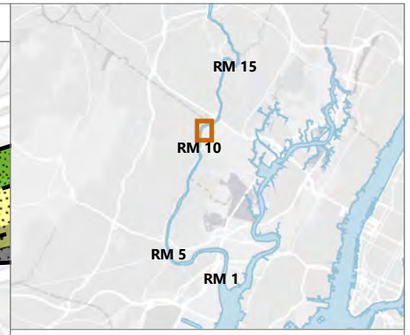
Figure 7-3b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration







LEGEND:

- Subreach Boundary
- TCRA remediated in 2013-2014
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total Mercury Concentrations (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
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Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 880
Feet

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Figure 7-4a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-5a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-5b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-6a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



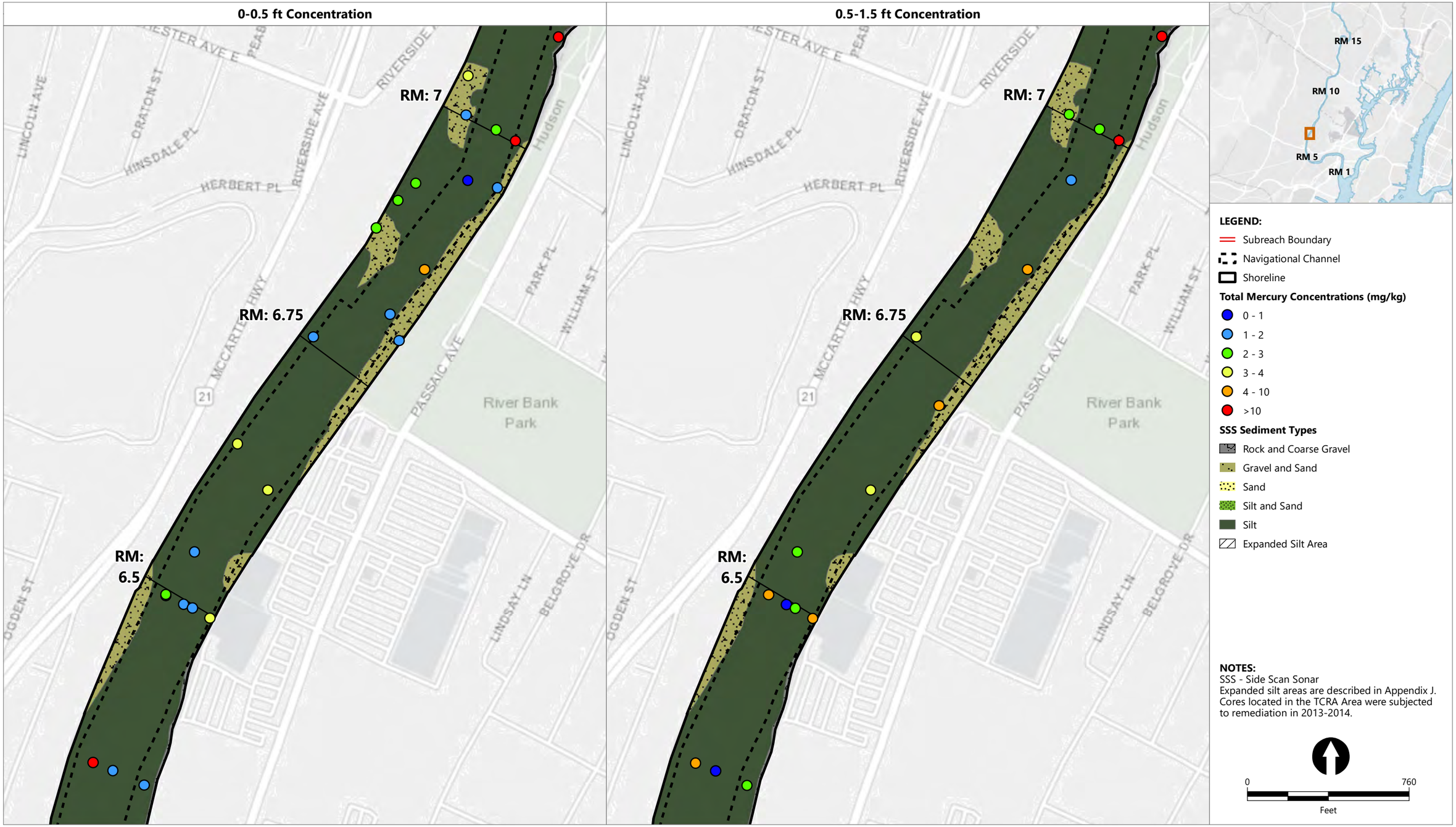
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Figure 7-6b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



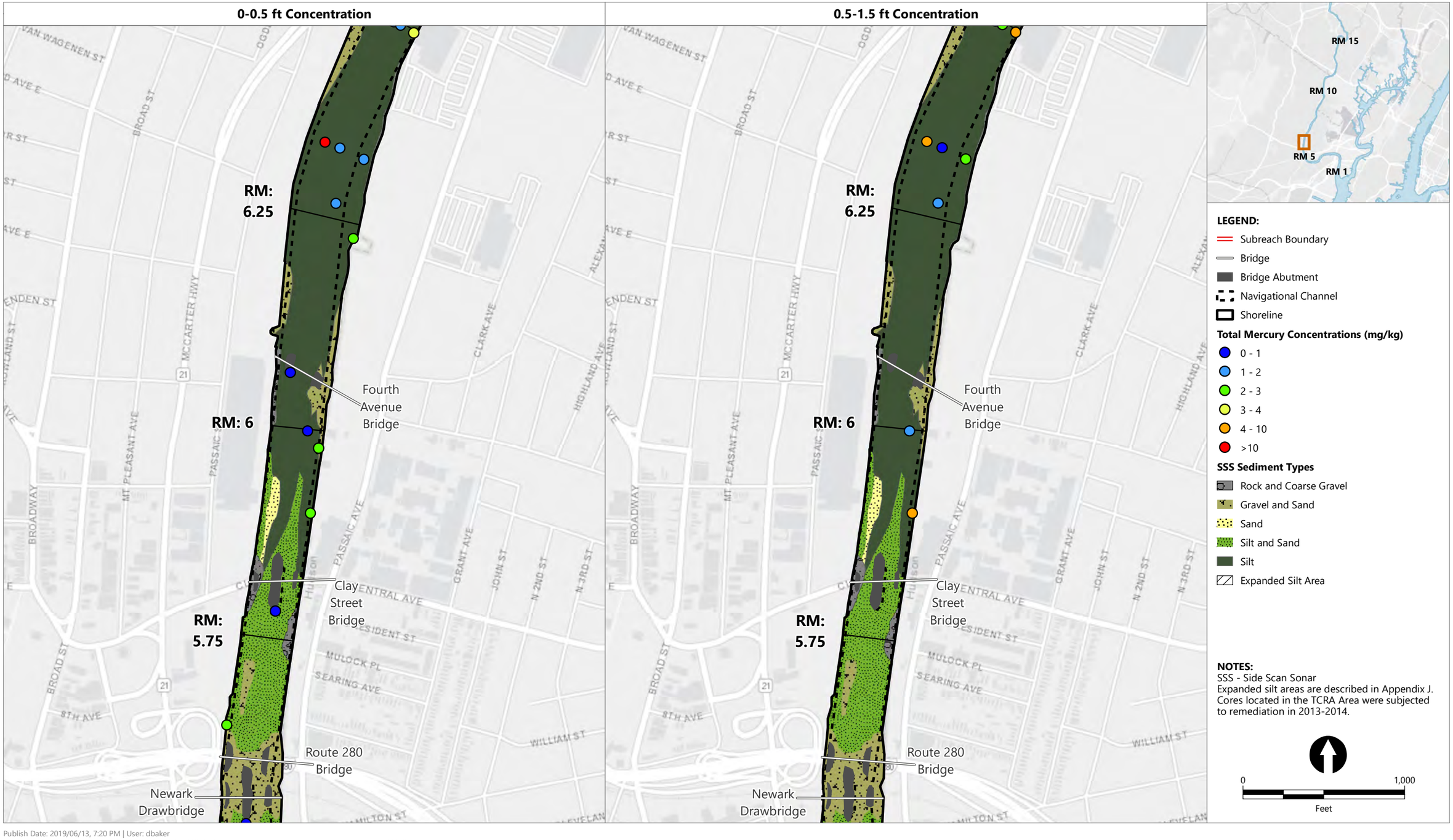
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Figure 7-7a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-7b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



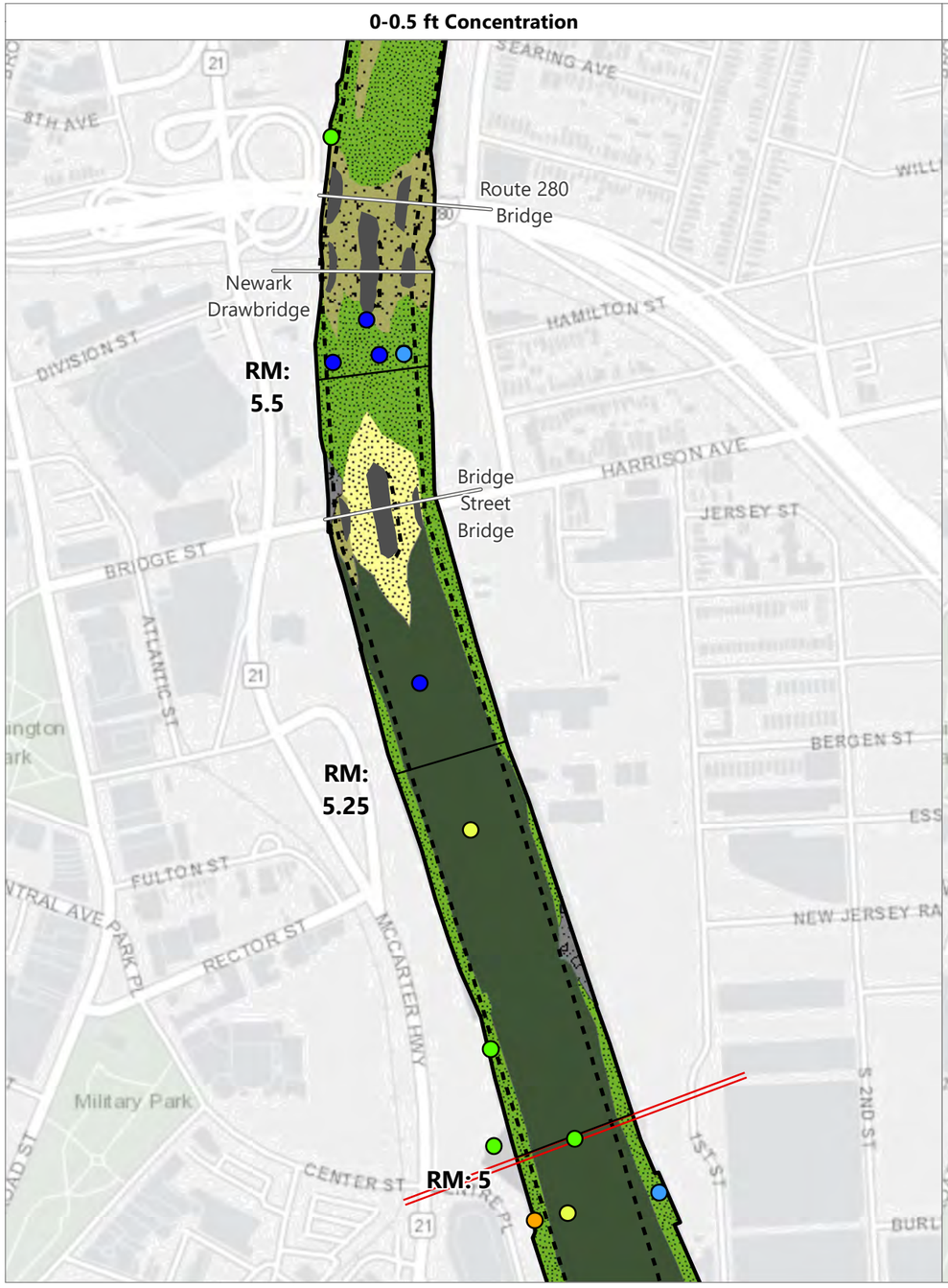
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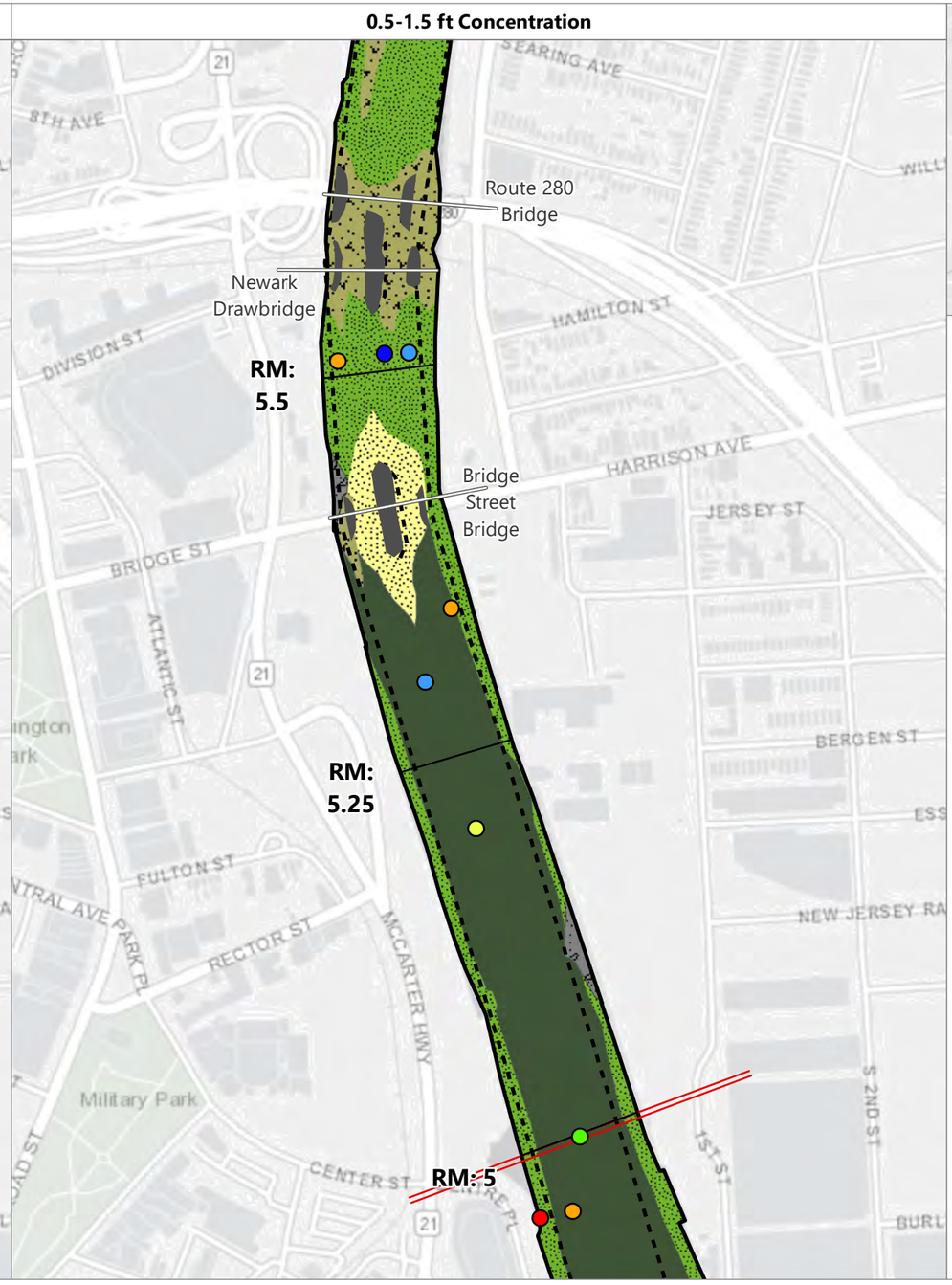
Figure 7-7c

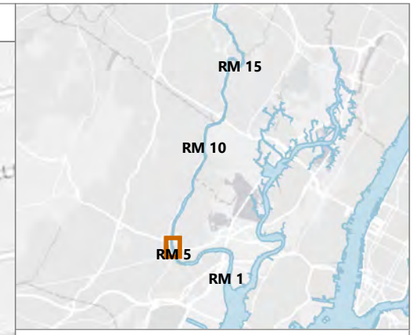
Surface and Subsurface Total Mercury Concentrations Over Sediment Type

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total Mercury Concentrations (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 850
Feet

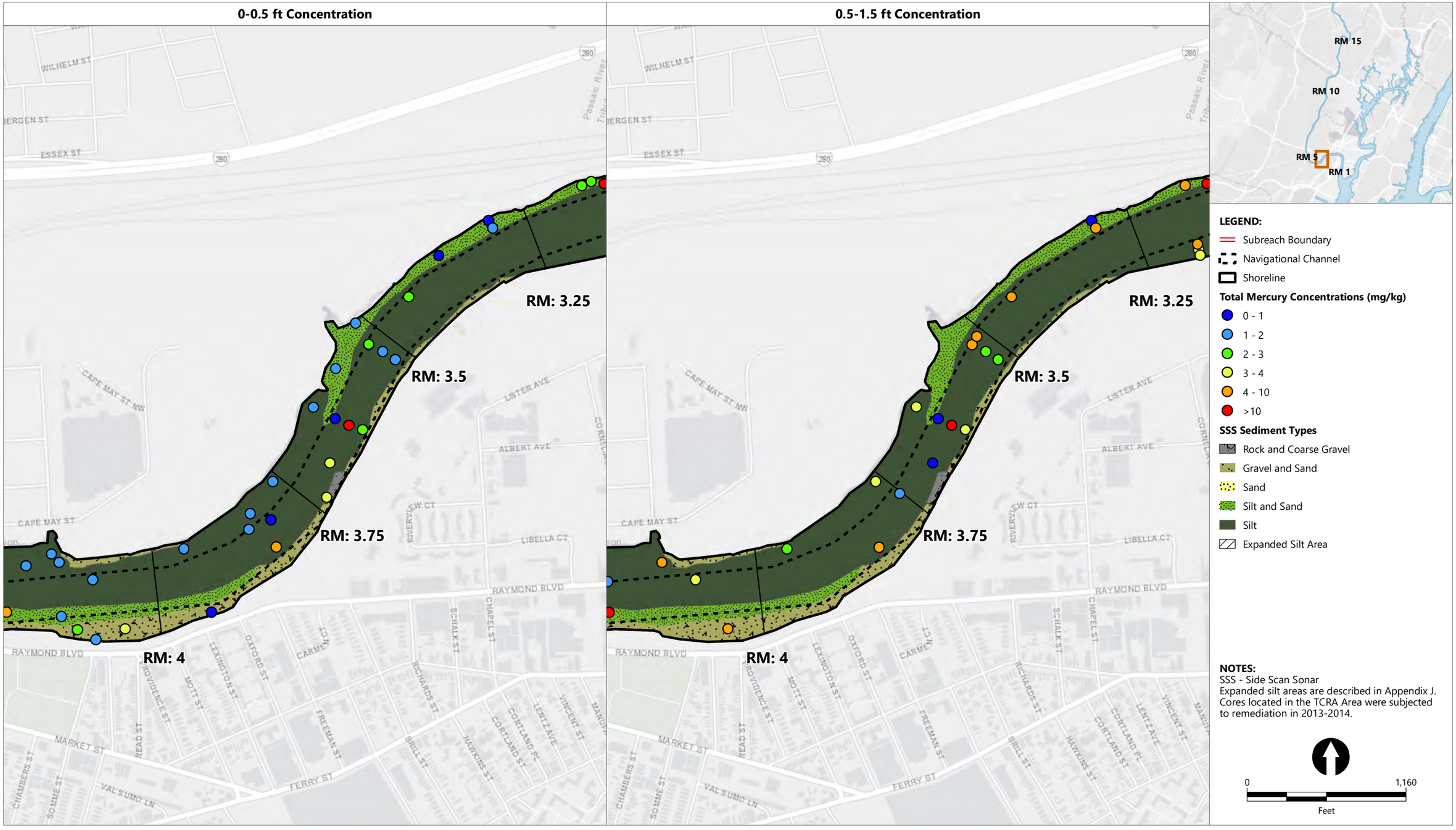
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Figure 7-7d
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-8a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

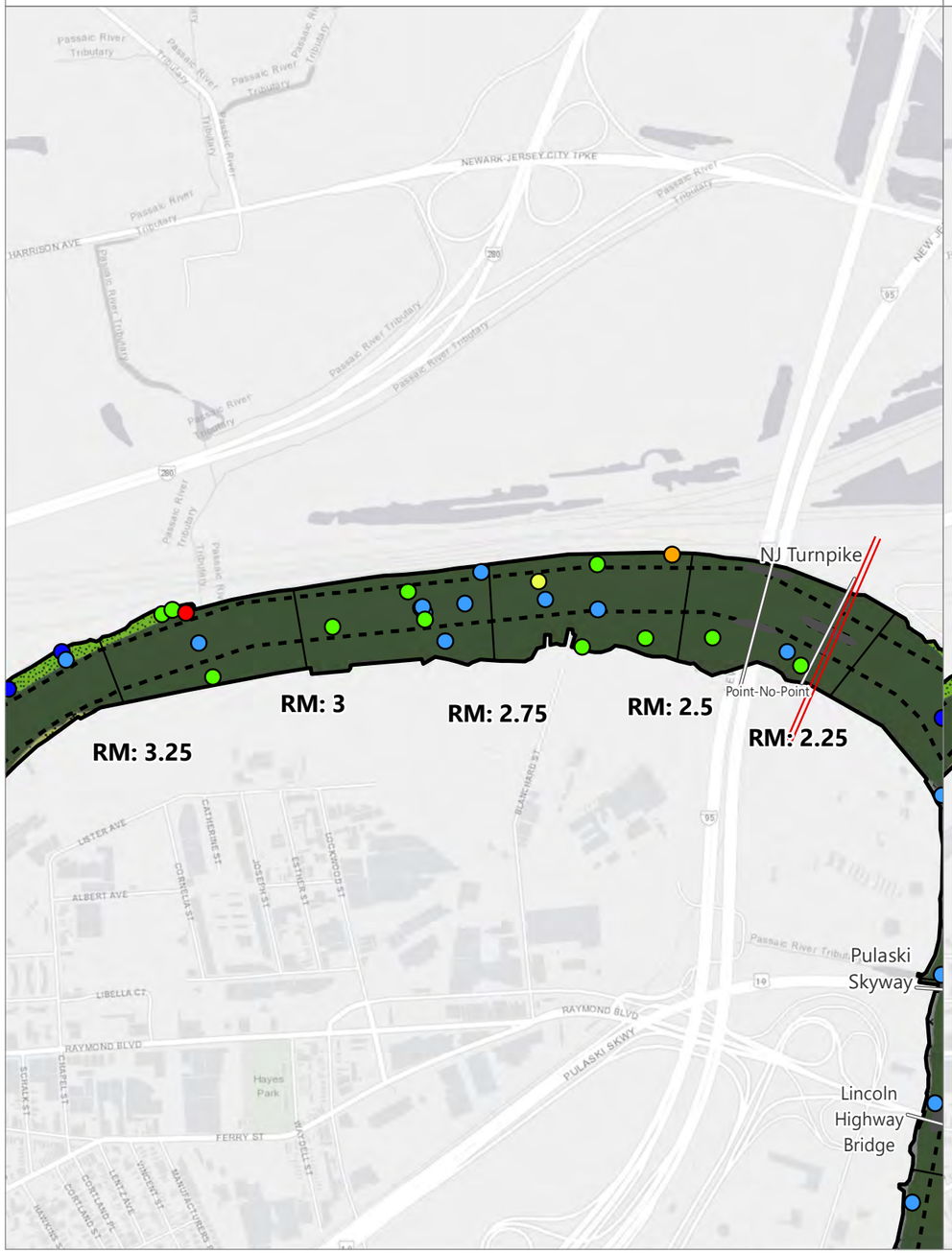


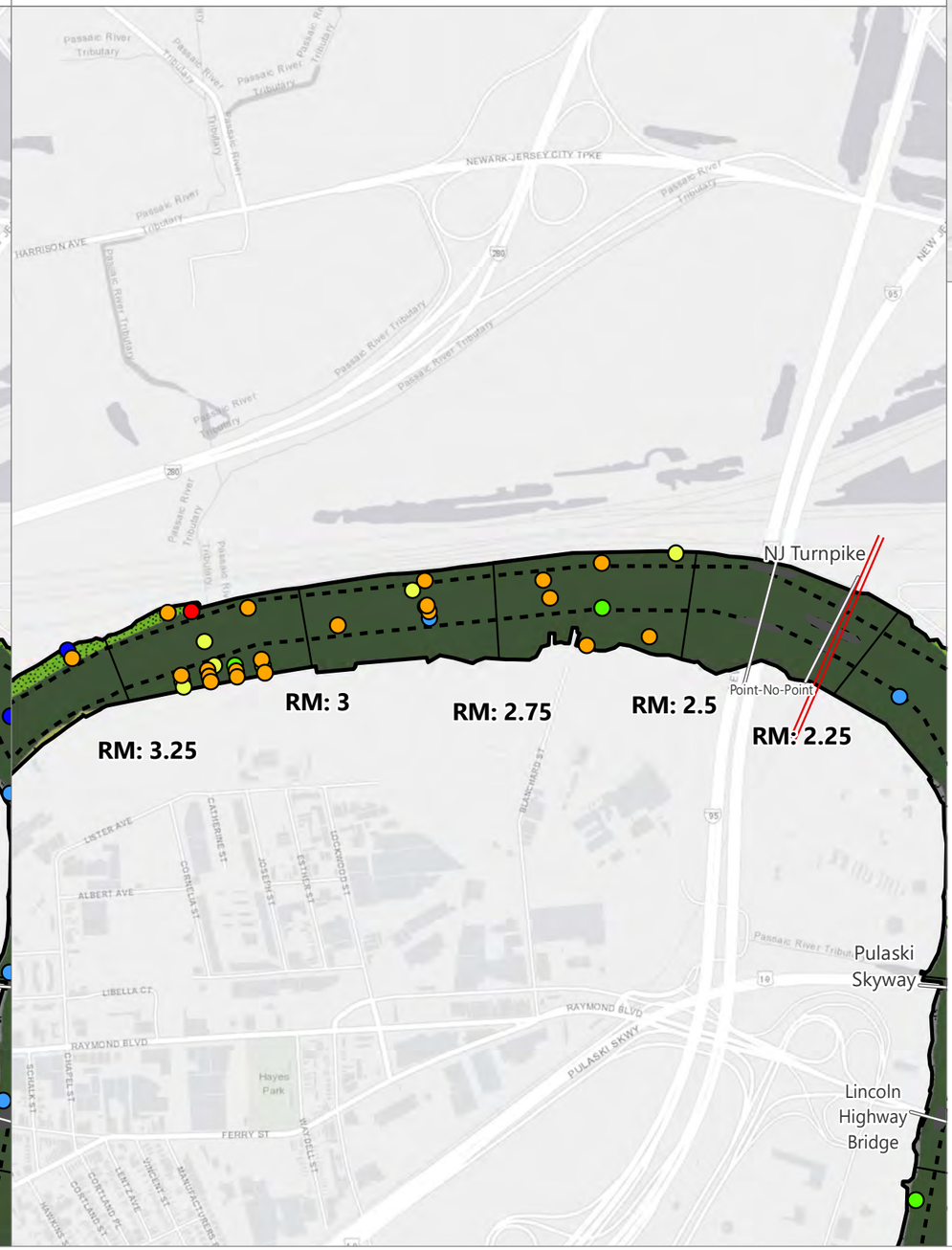
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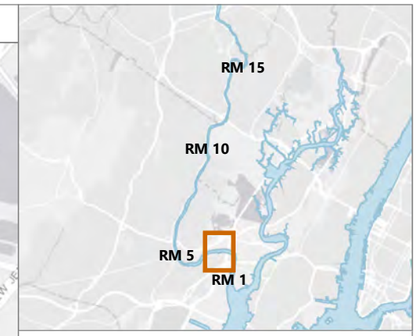
Figure 7-8b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total Mercury Concentrations (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

SSS Sediment Types

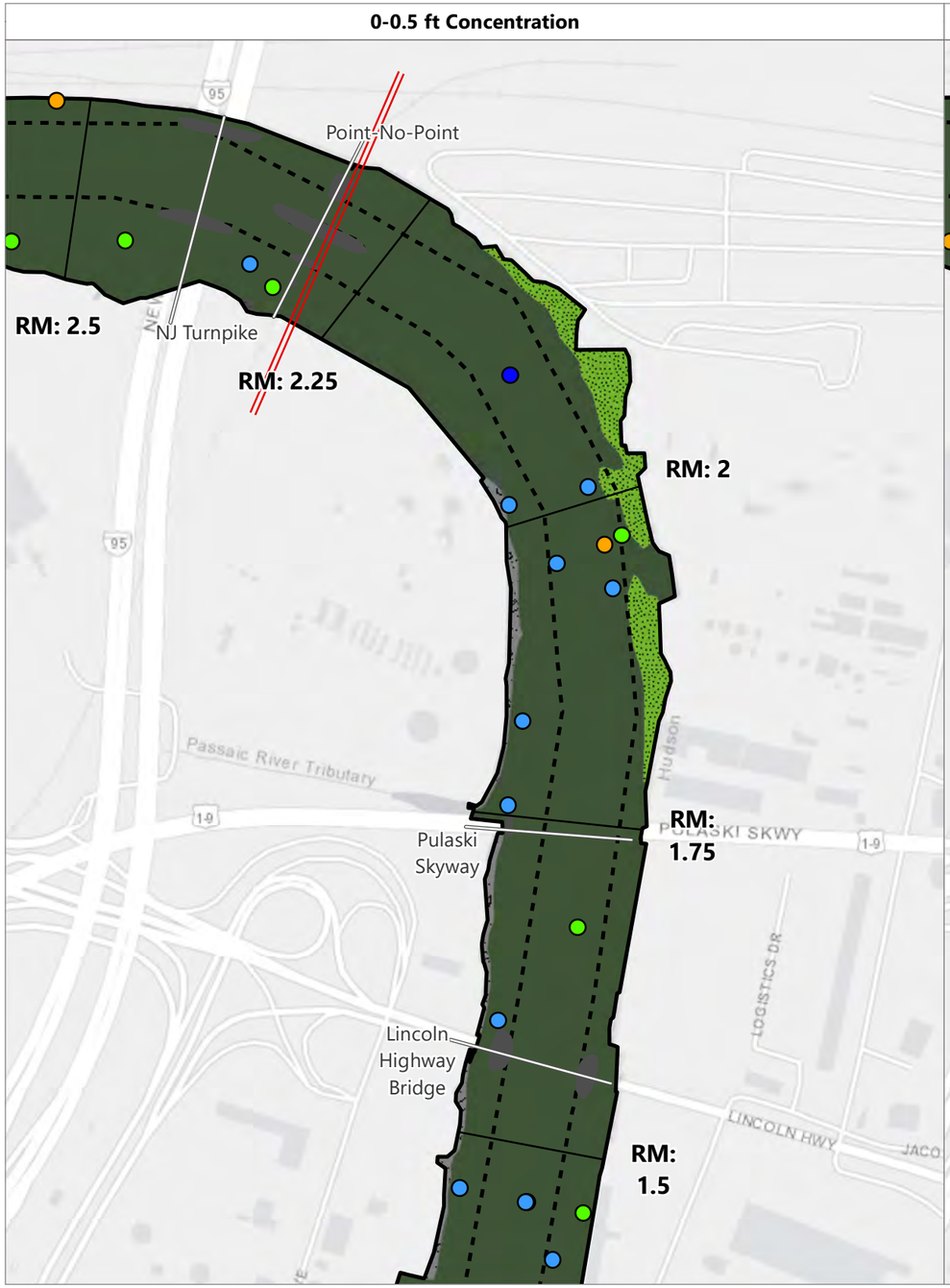
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

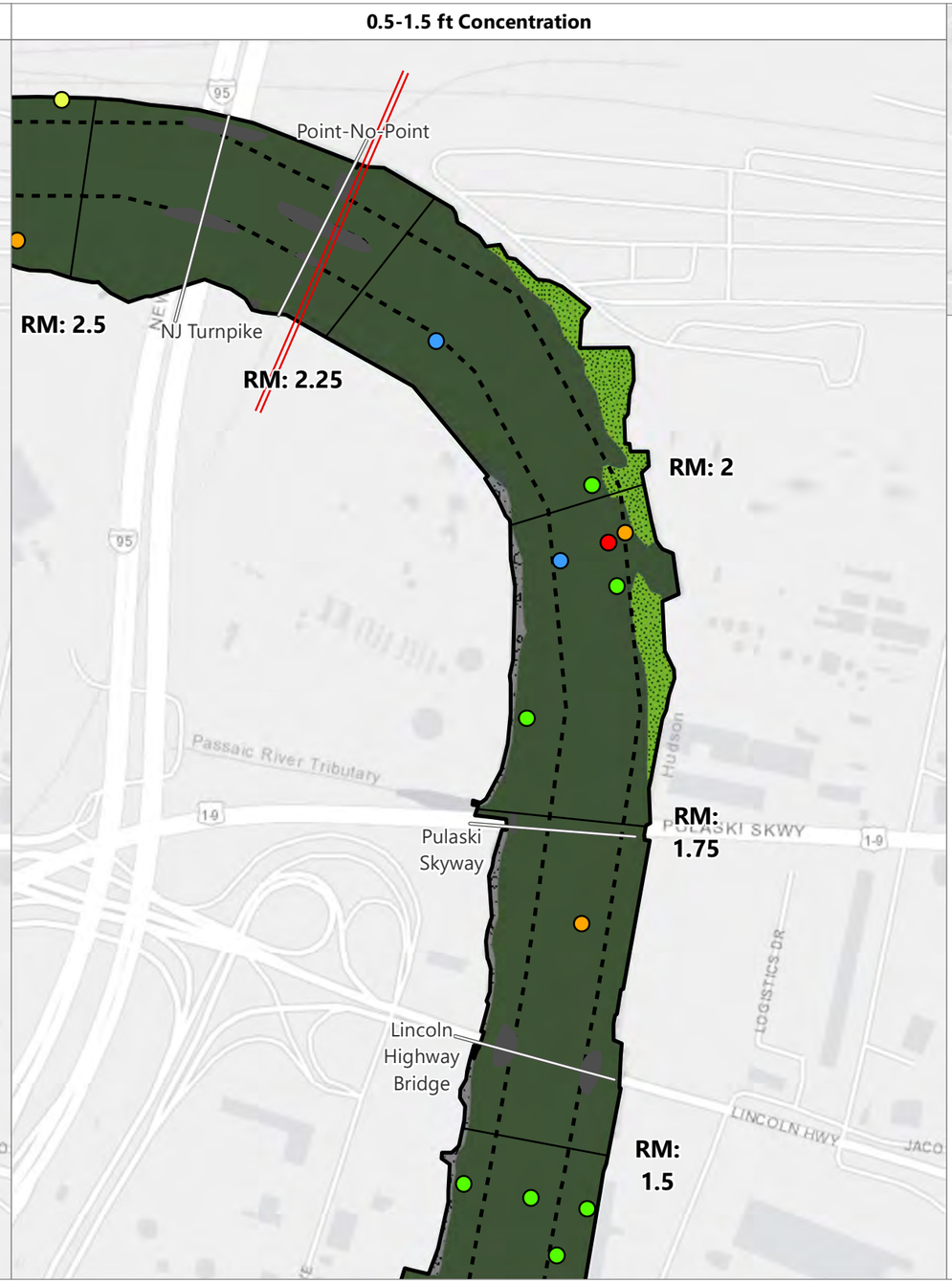
NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

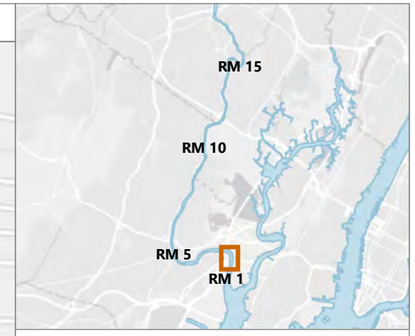
0 1,700
Feet

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Figure 7-8c
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total Mercury Concentrations (mg/kg)

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 10
- >10

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 1,020
Feet

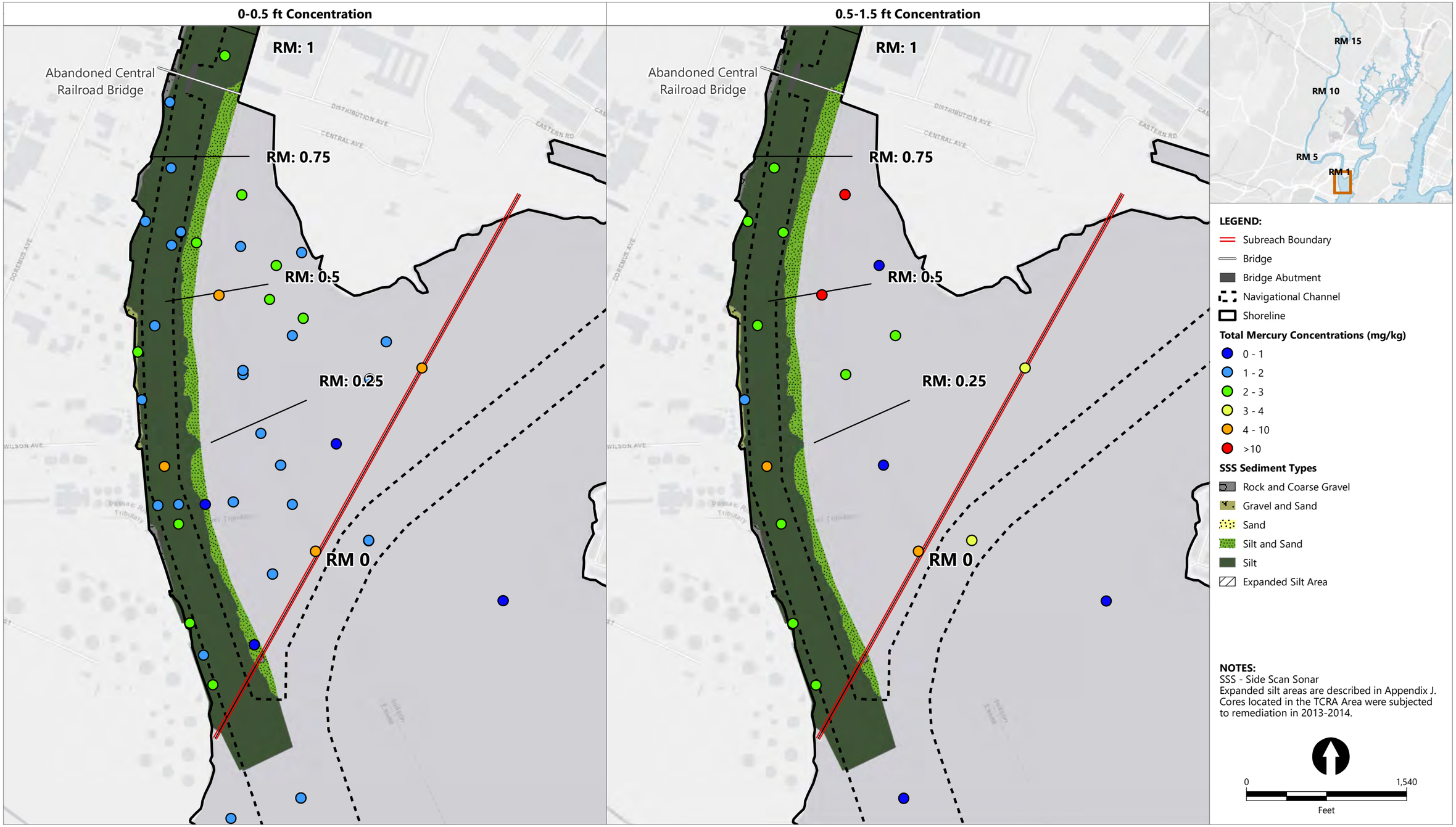
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Figure 7-9a
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-9b
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 7-9c
Surface and Subsurface Total Mercury Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 8-1a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

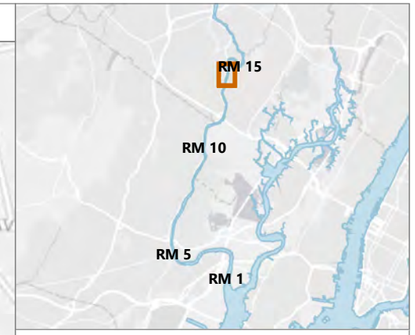


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Figure 8-1b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total HMW PAH Concentrations (mg/kg)

- 0.0 - 15
- 15- 30
- 30 - 40
- 40 - 50
- 50 - 80
- > 80

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 980
Feet

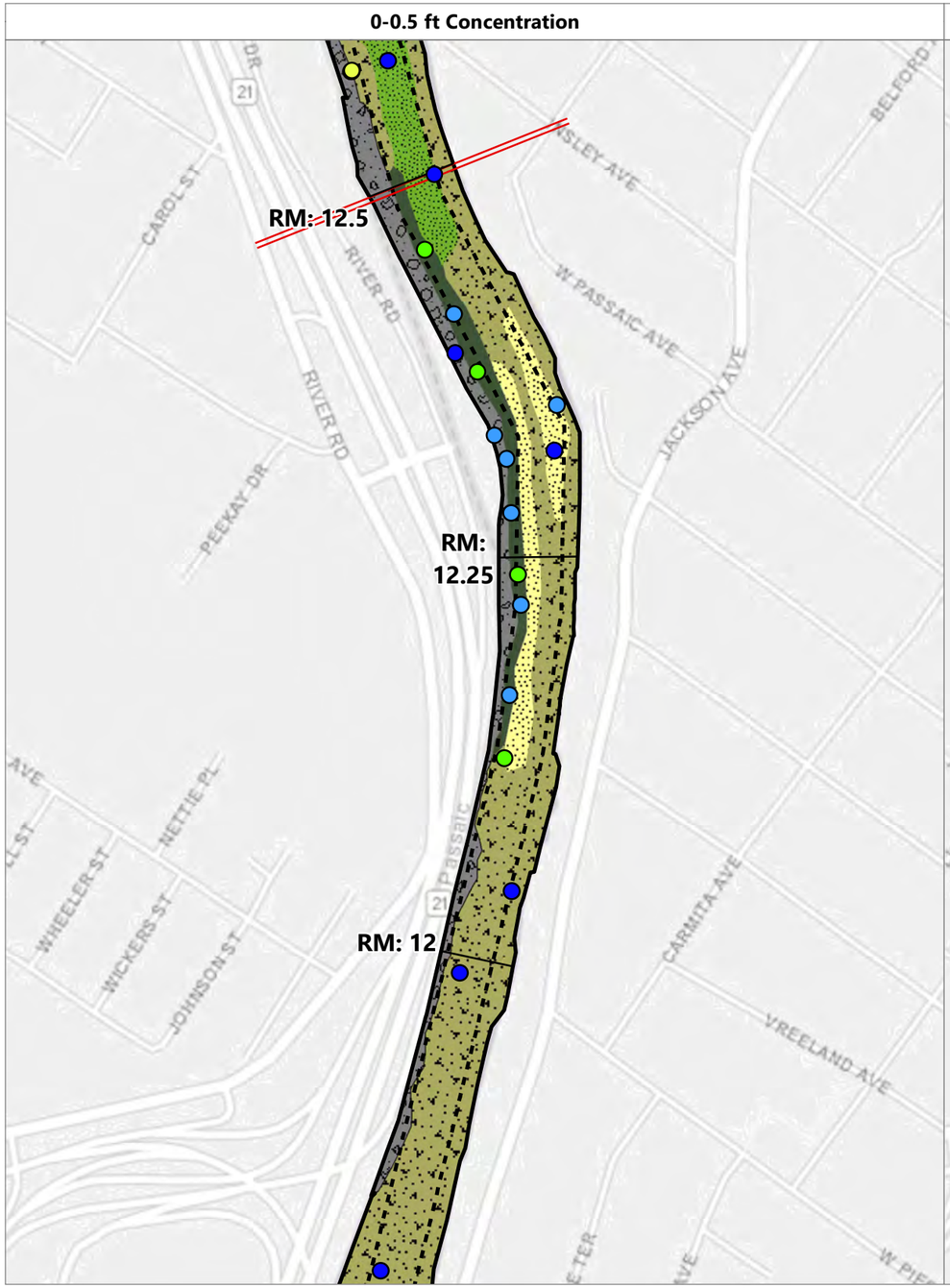
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Figure 8-2a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

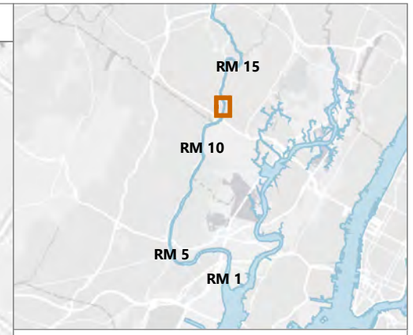


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Figure 8-2b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Navigational Channel
- Shoreline

Total HMW PAH Concentrations (mg/kg)

- 0.0 - 15
- 15- 30
- 30 - 40
- 40 - 50
- 50 - 80
- > 80

SSS Sediment Types

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- Sand
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- Silt
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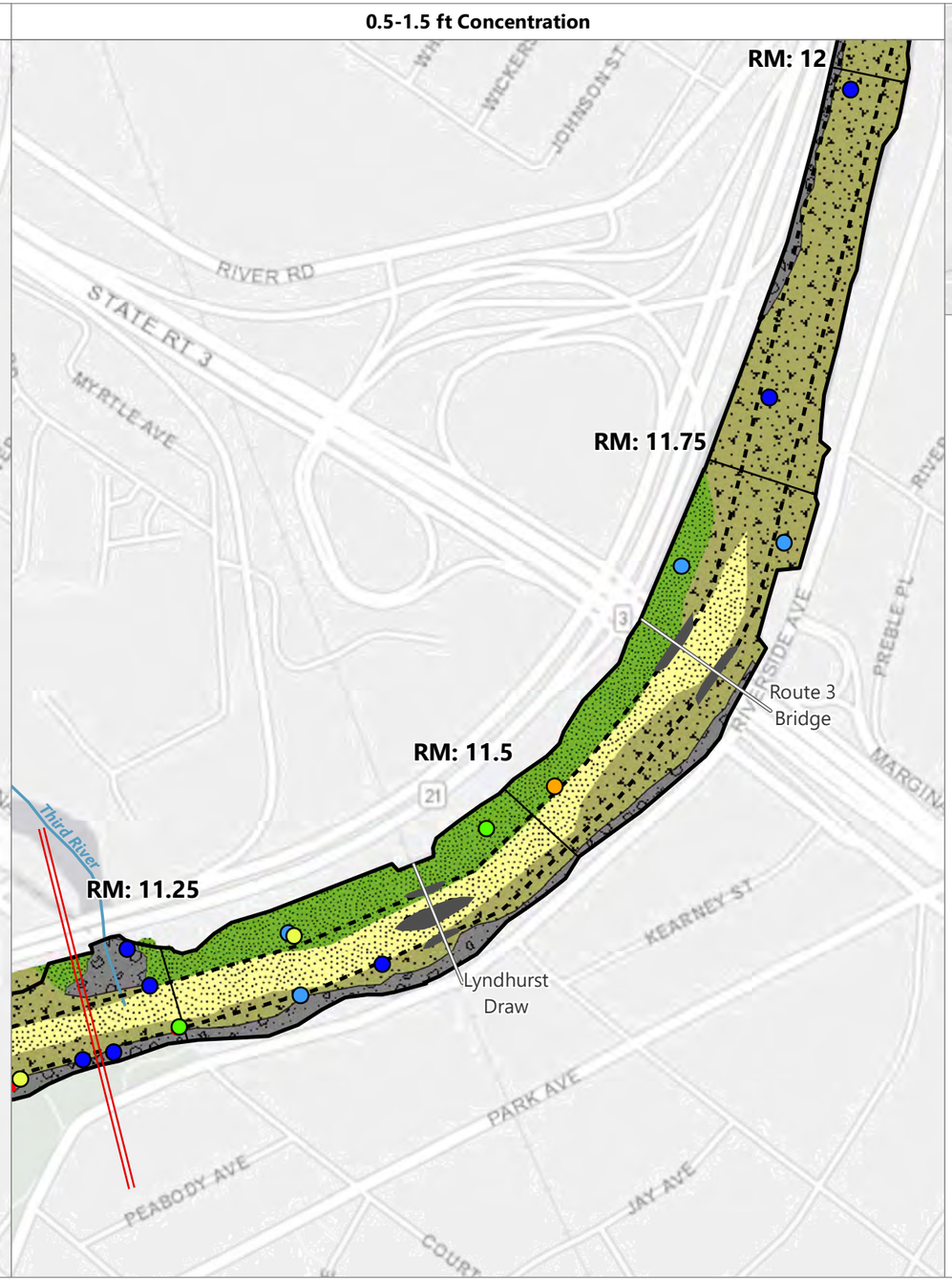
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SSS - Side Scan Sonar
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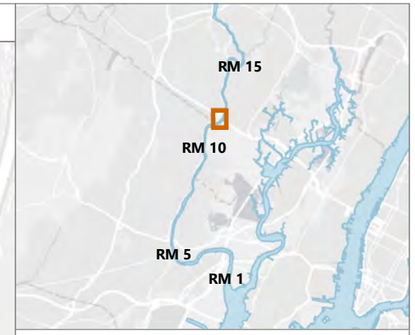
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Figure 8-3a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- TCRA remediated in 2013-2014
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Total HMW PAH Concentrations (mg/kg)

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- 15- 30
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NOTES:
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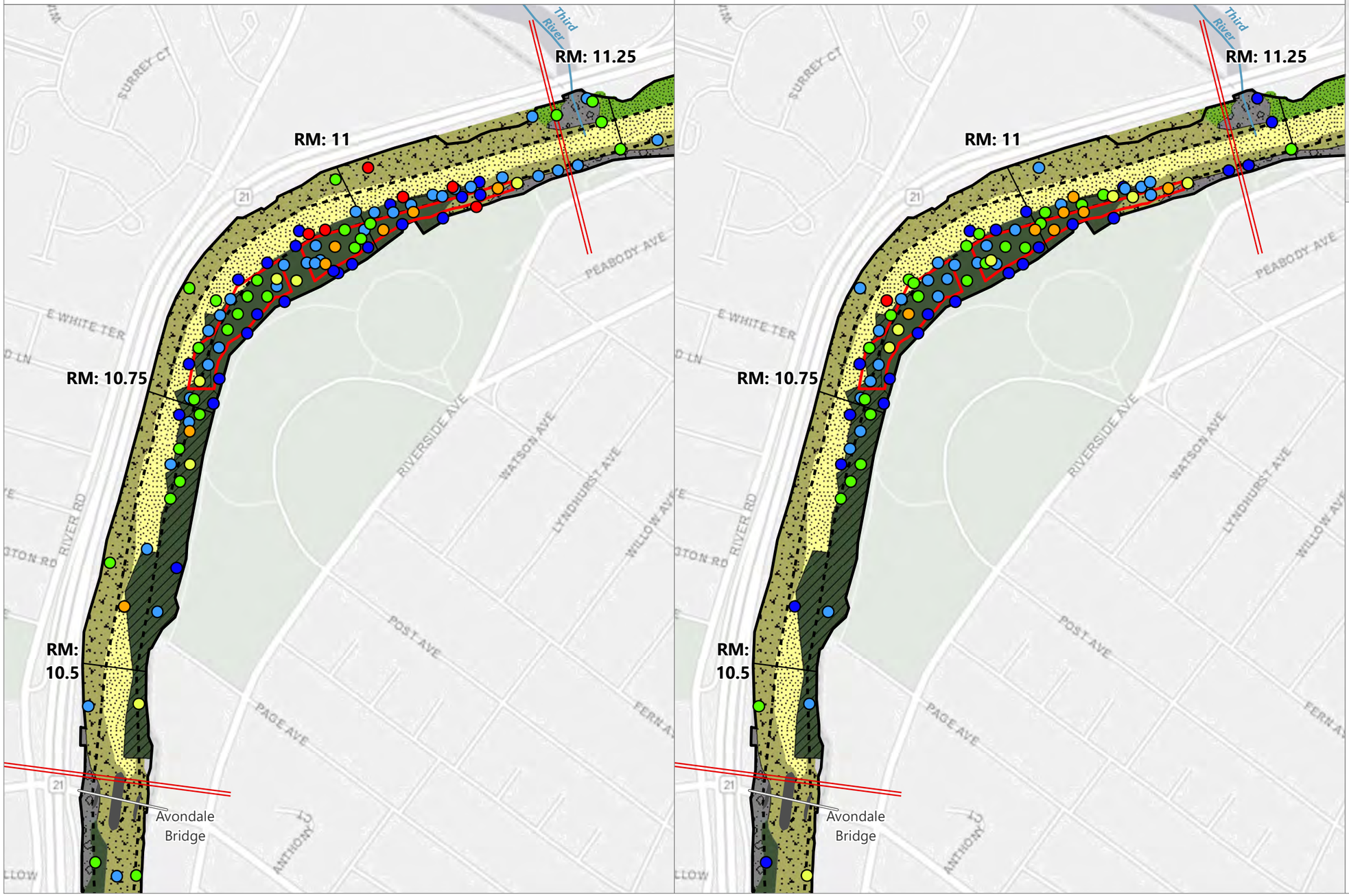
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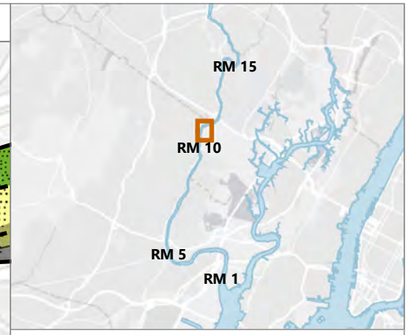
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Figure 8-3b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration





LEGEND:

- Subreach Boundary
- TCRA remediated in 2013-2014
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total HMW PAH Concentrations (mg/kg)

- 0.0 - 15
- 15- 30
- 30 - 40
- 40 - 50
- 50 - 80
- > 80

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 880
Feet

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Figure 8-4a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



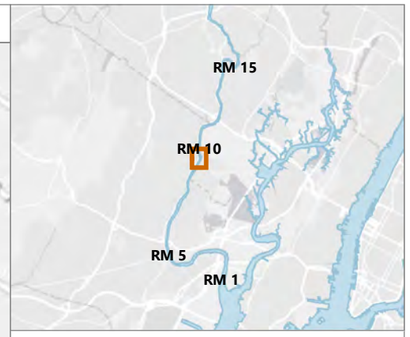
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Figure 8-5a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration





LEGEND:

- Subreach Boundary
- Navigational Channel
- Shoreline

Total HMW PAH Concentrations (mg/kg)

- 0.0 - 15
- 15- 30
- 30 - 40
- 40 - 50
- 50 - 80
- > 80

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 850
Feet

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Figure 8-5b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 8-6a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

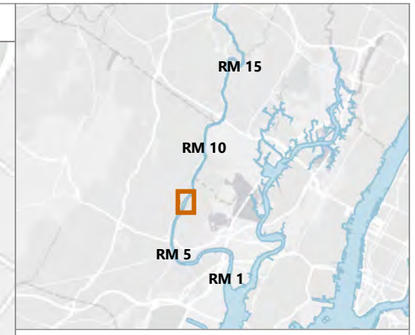


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Figure 8-6b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total HMW PAH Concentrations (mg/kg)

- 0.0 - 15
- 15- 30
- 30 - 40
- 40 - 50
- 50 - 80
- > 80

SSS Sediment Types

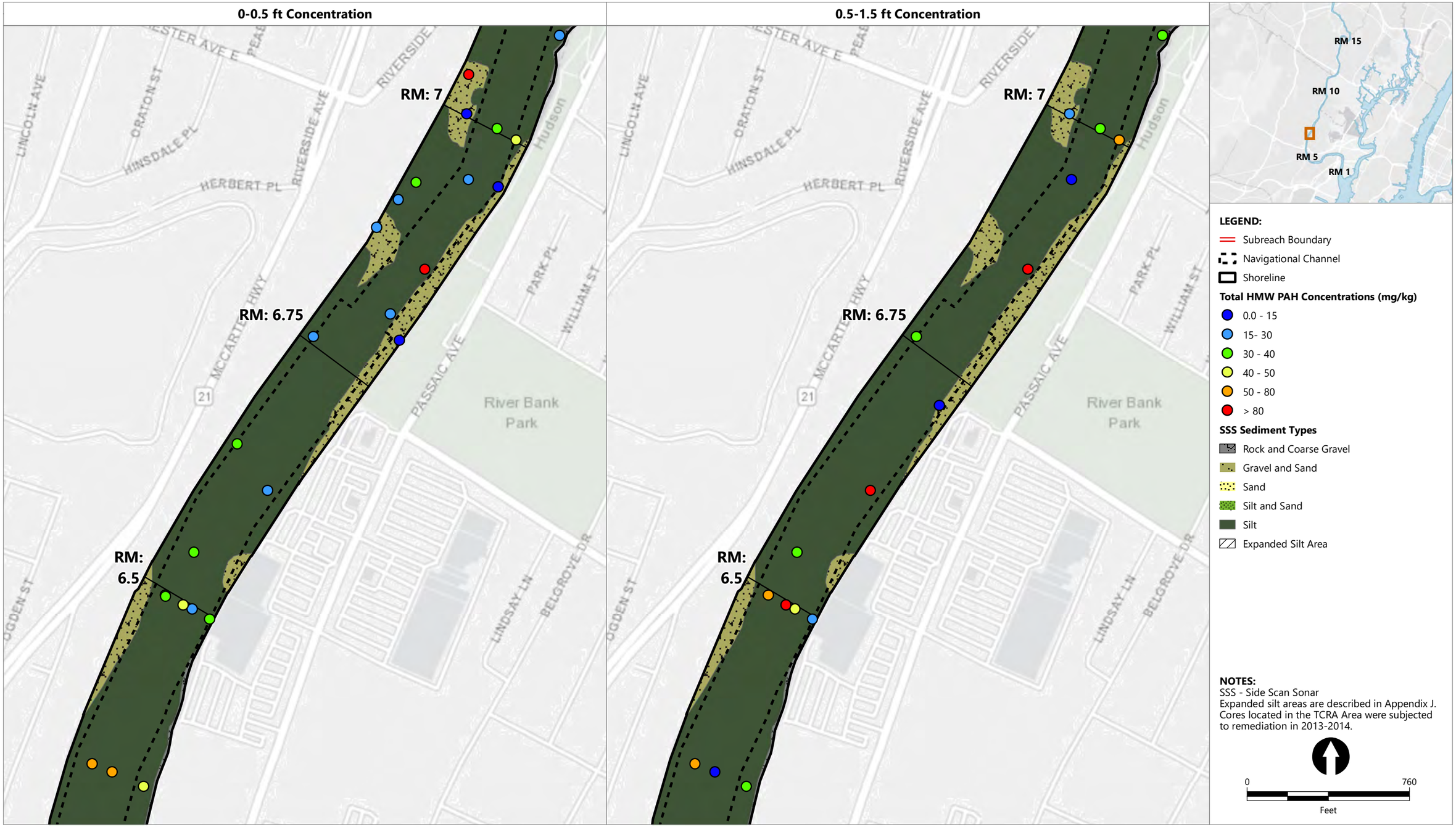
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 1,000
Feet

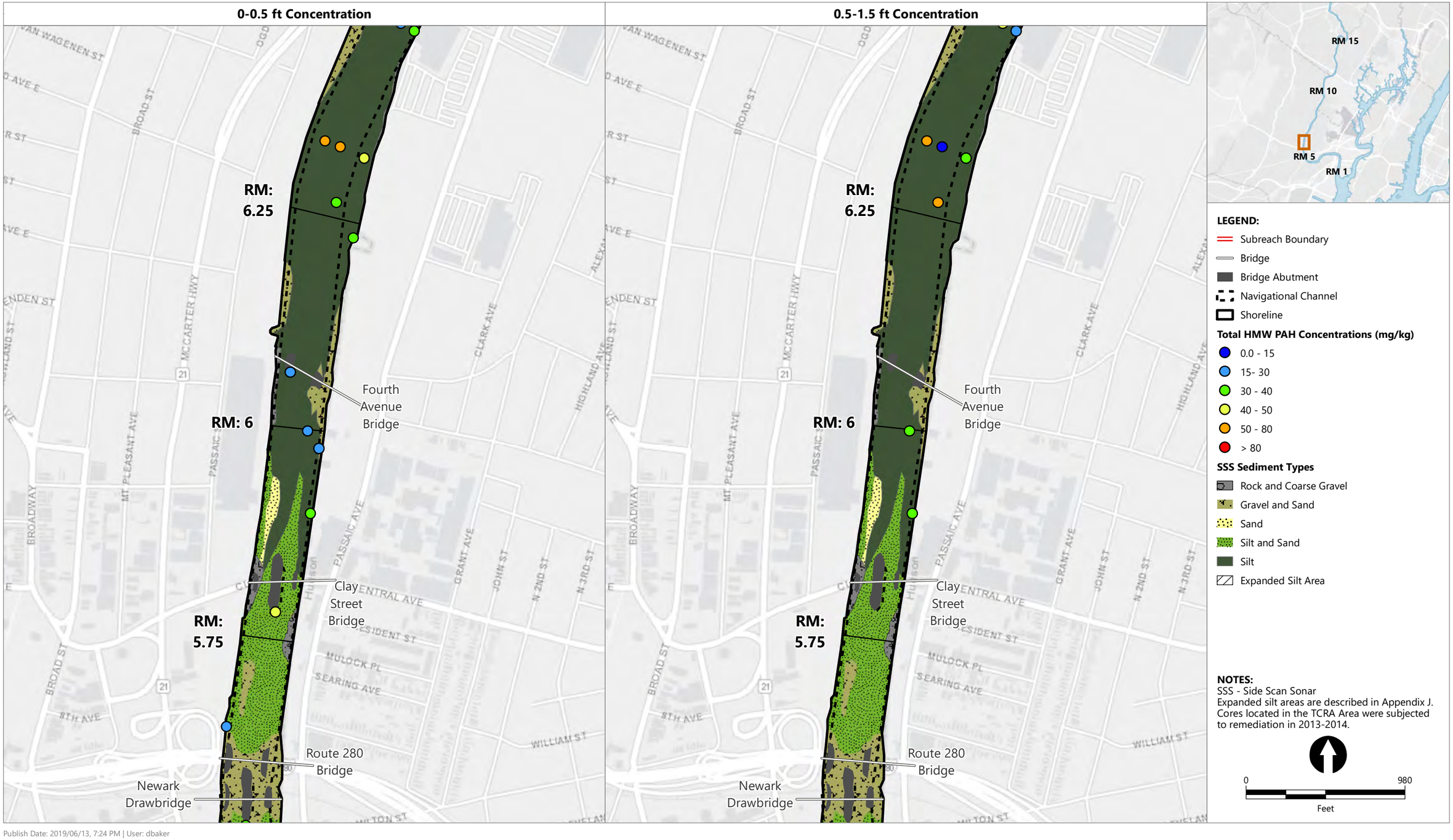
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Figure 8-7a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 8-7b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



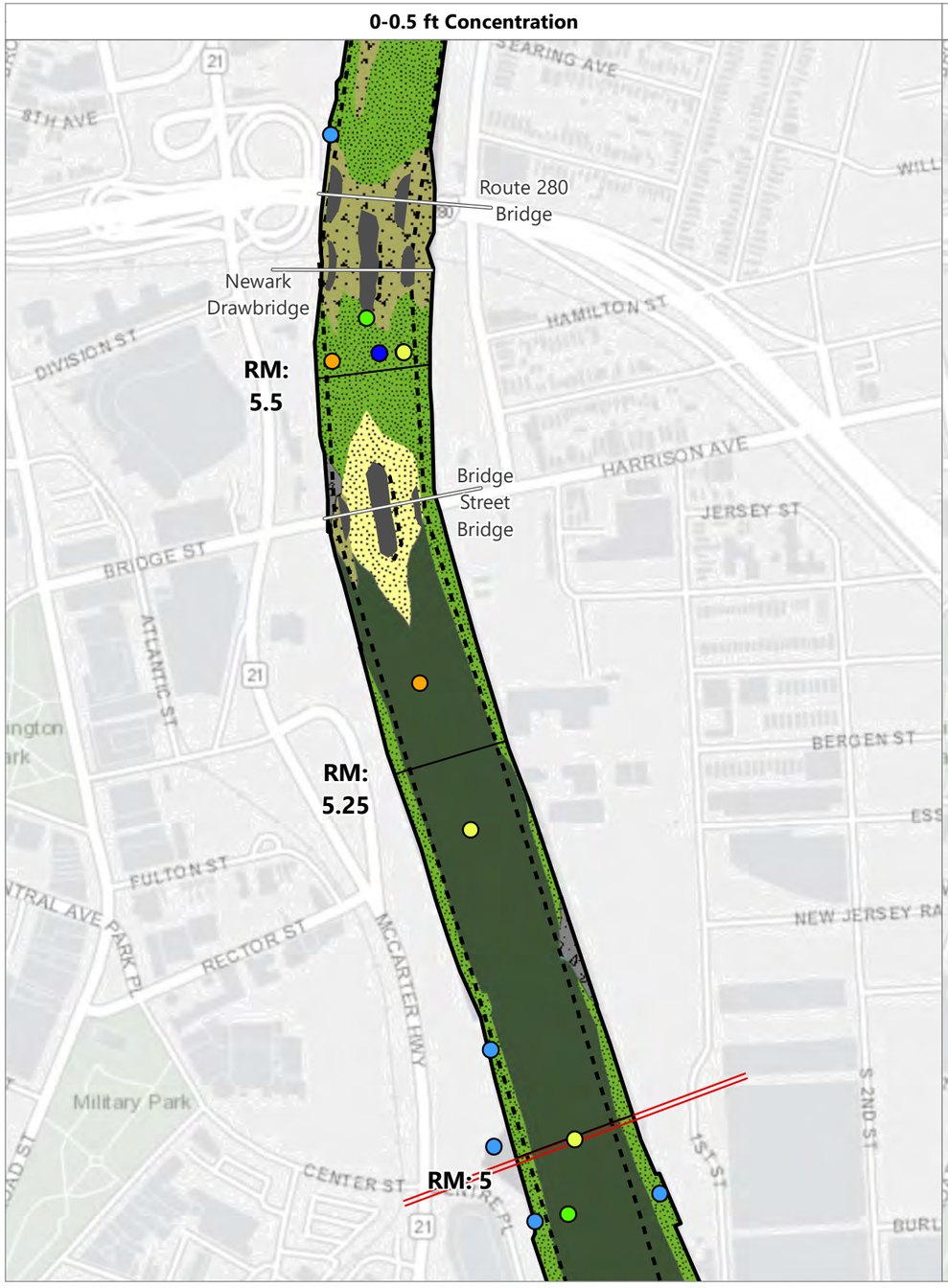
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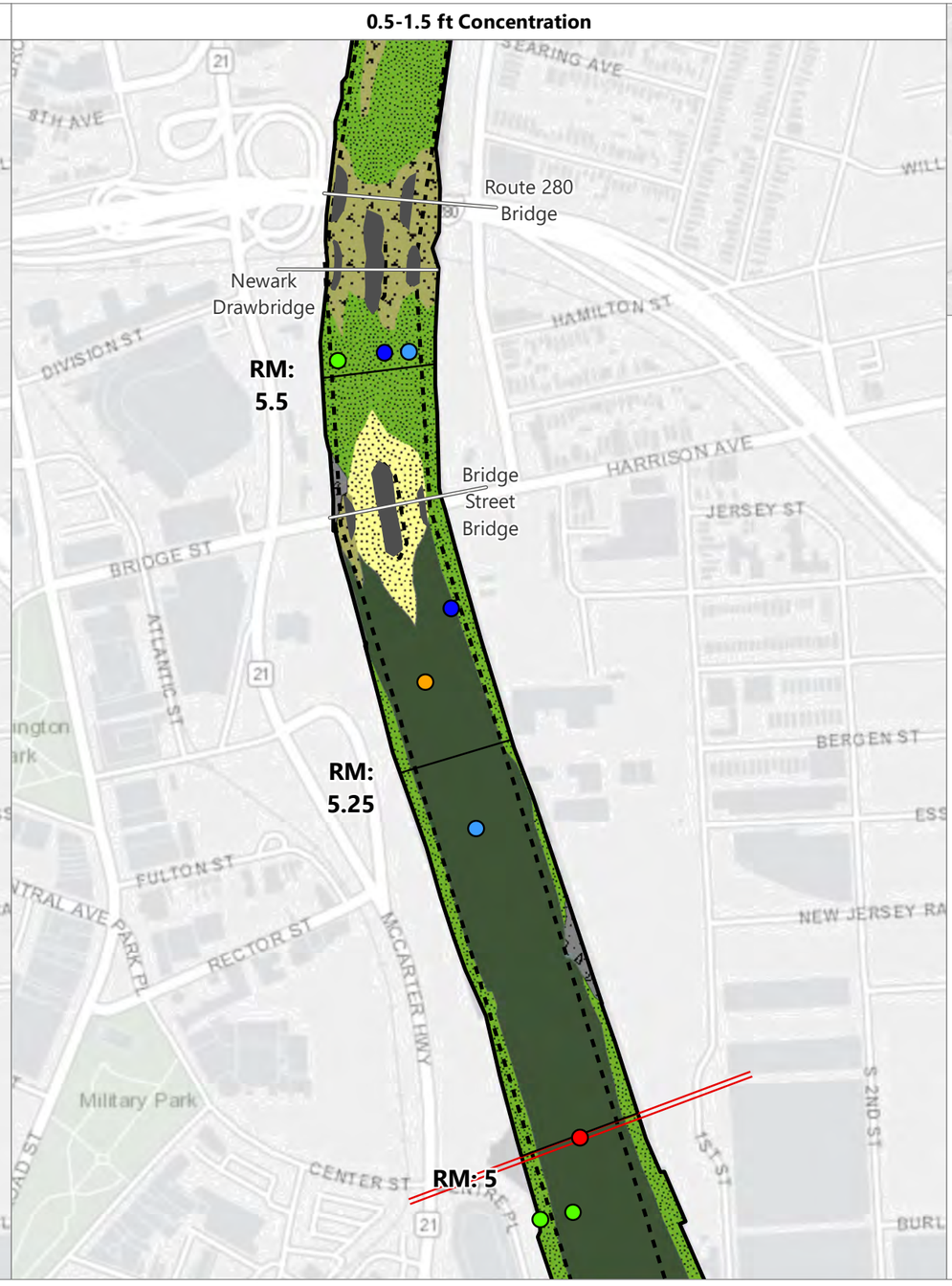
Figure 8-7c

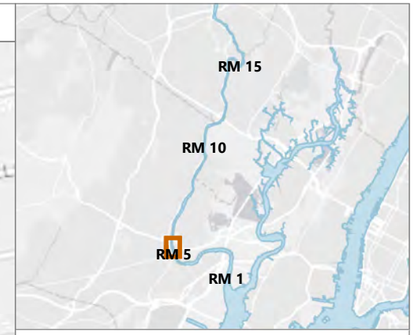
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type

Remedial Investigation Report

Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total HMW PAH Concentrations (mg/kg)

- 0.0 - 15
- 15- 30
- 30 - 40
- 40 - 50
- 50 - 80
- > 80

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 840
Feet

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Figure 8-7d
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



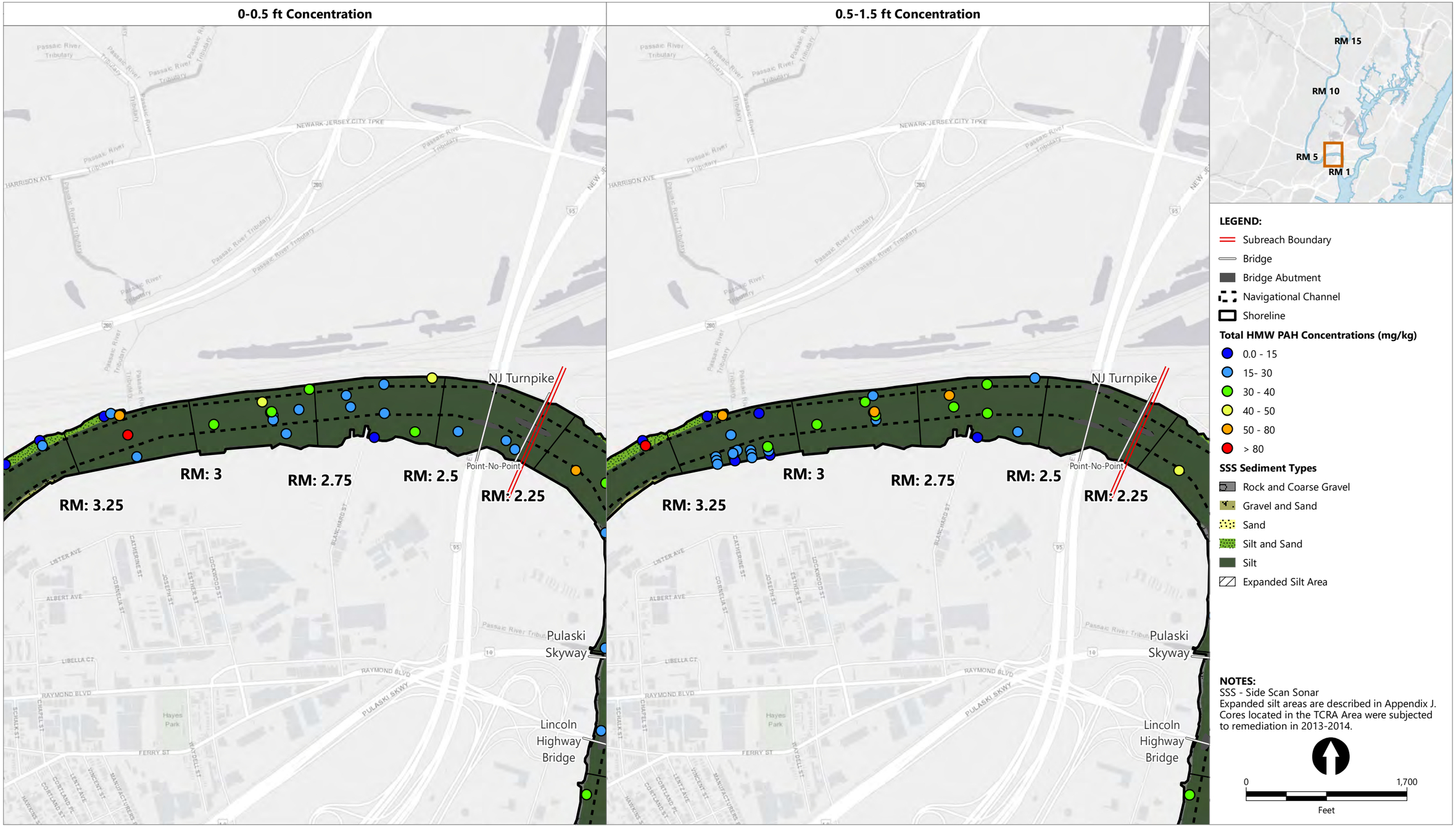
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Figure 8-8a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



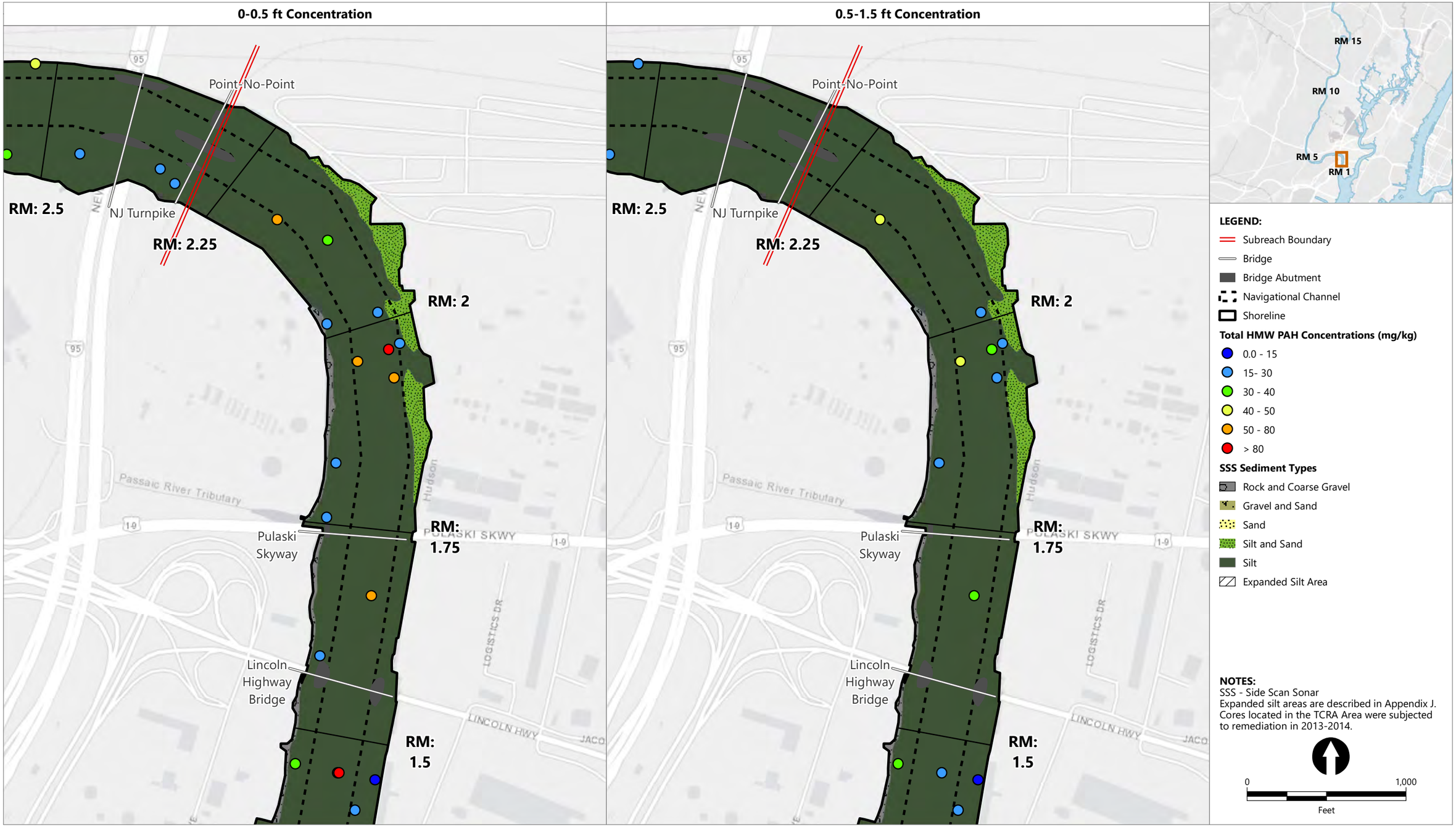
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Figure 8-8b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 8-8c
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



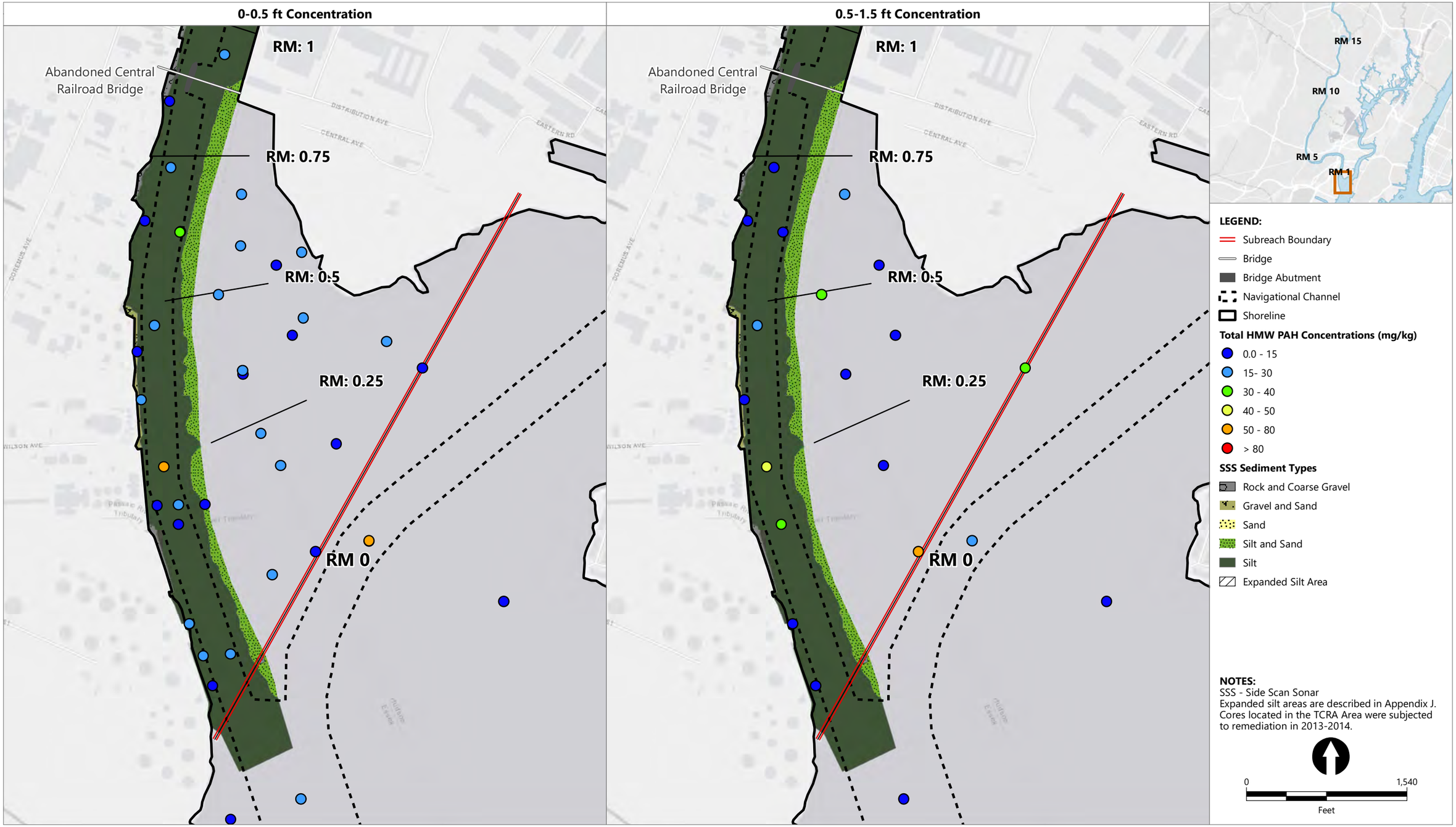
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Figure 8-9a
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 8-9b
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 8-9c
Surface and Subsurface Total HMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



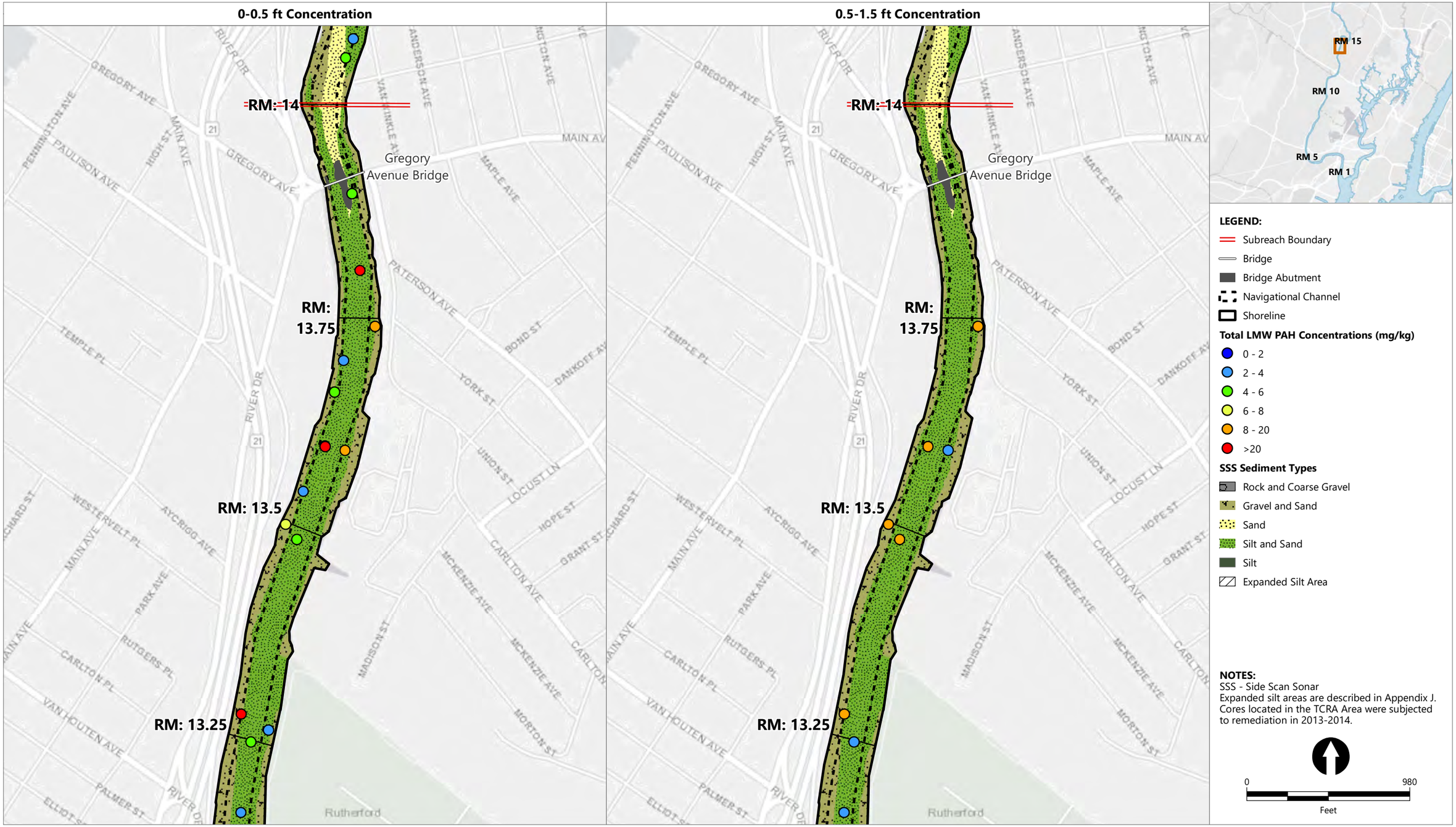
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Figure 9-1a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 9-1b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
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Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 9-2a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 9-2b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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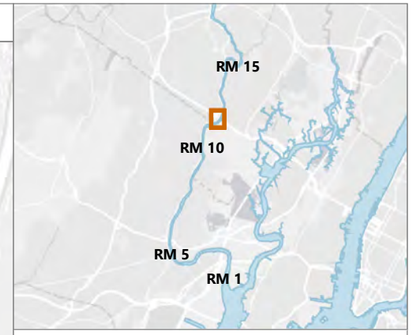
Figure 9-3a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration







LEGEND:

- Subreach Boundary
- TCRA remediated in 2013-2014
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total LMW PAH Concentrations (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 800
Feet

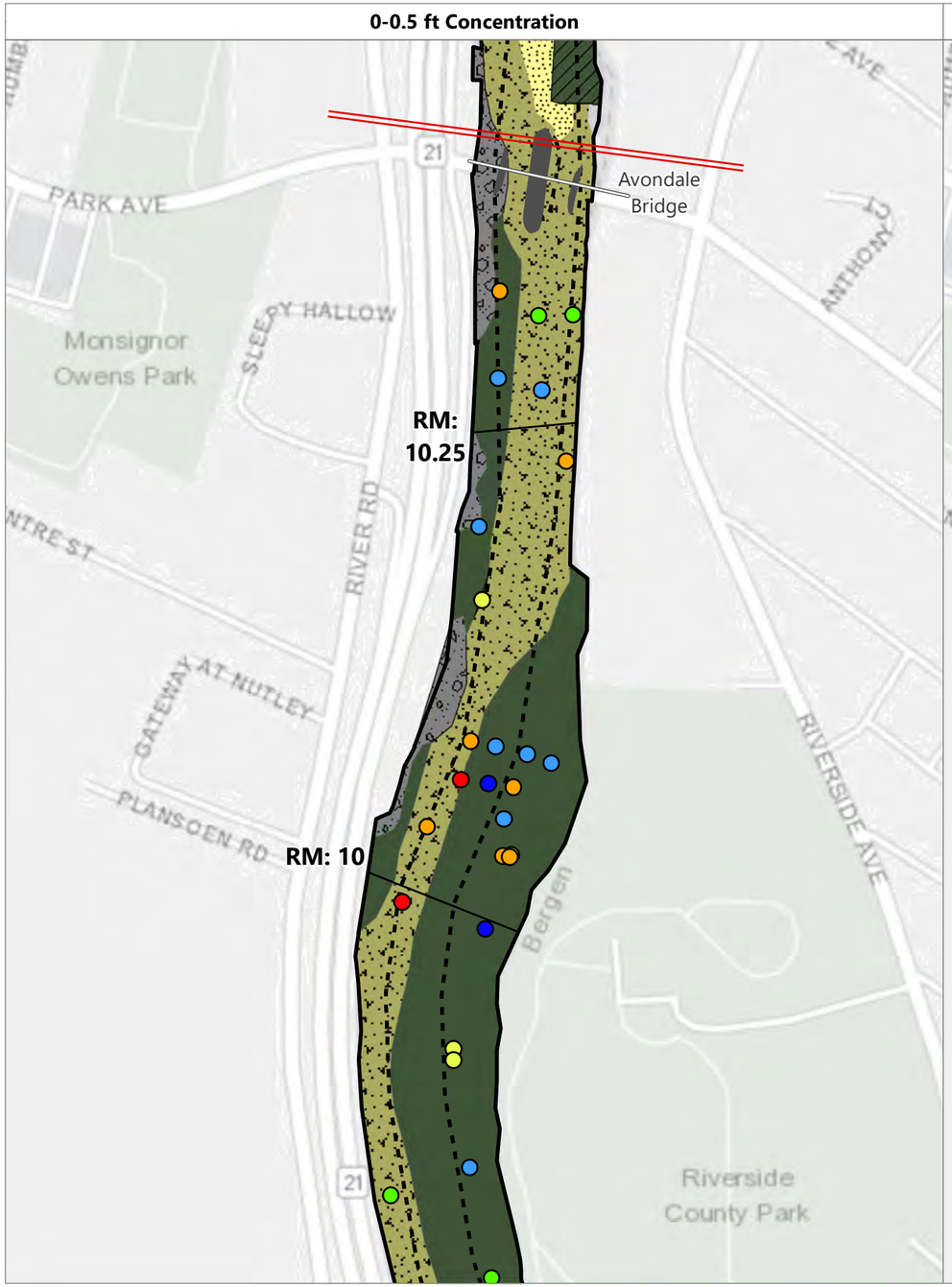
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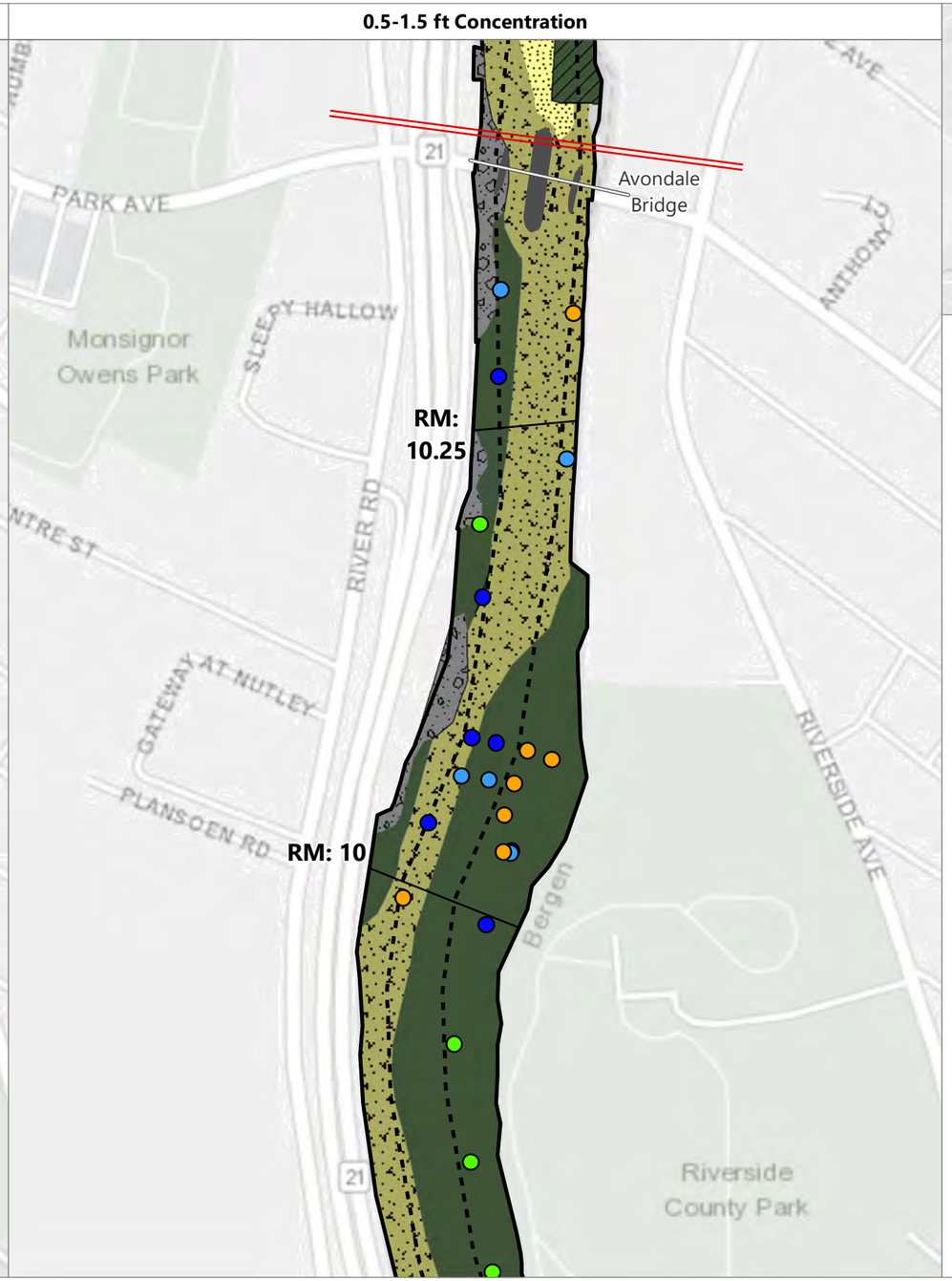
Figure 9-3b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

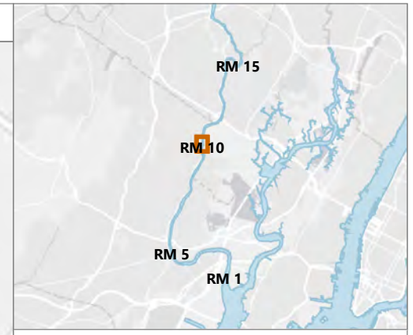


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Figure 9-4a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total LMW PAH Concentrations (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 680
Feet

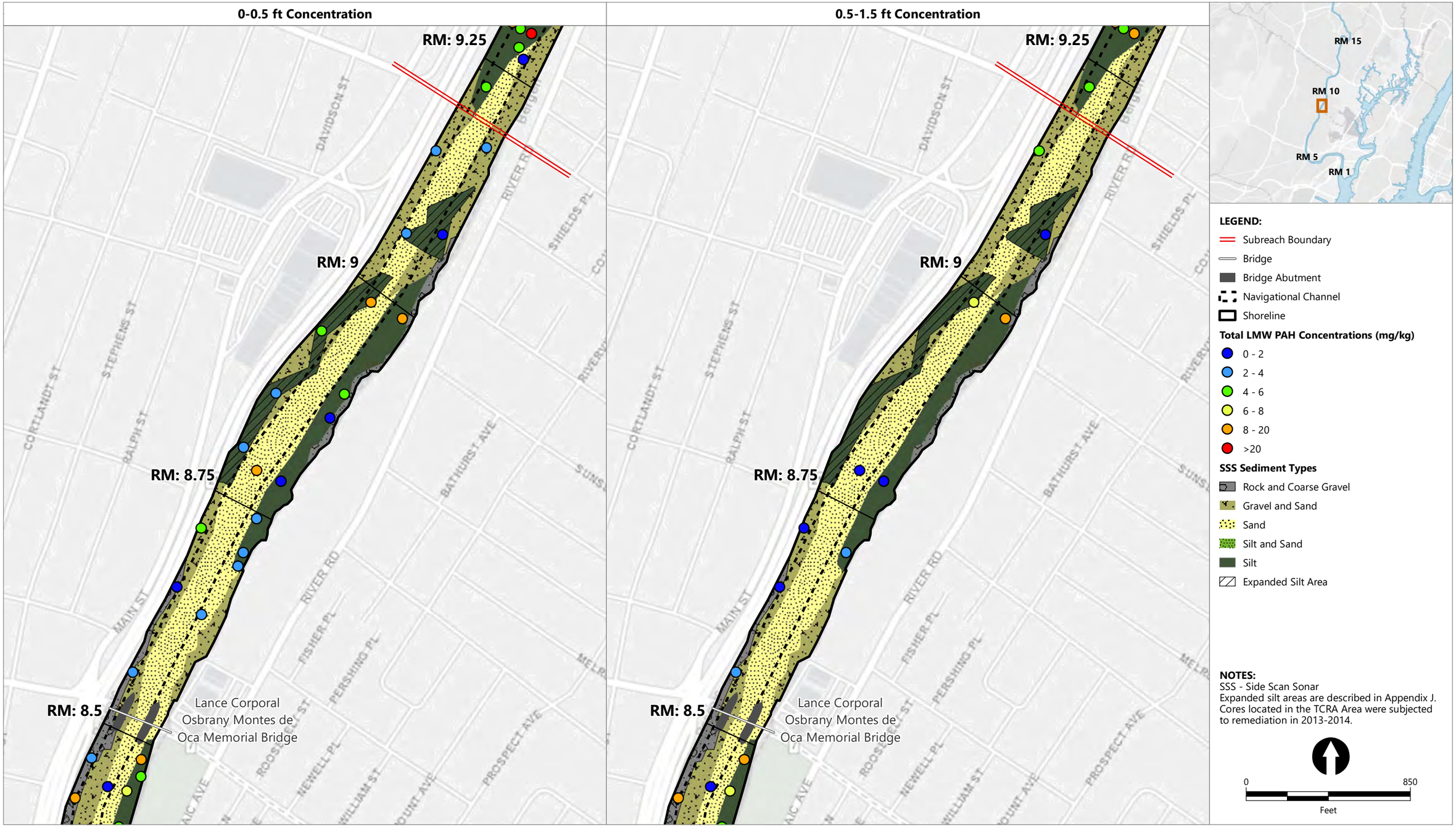
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Figure 9-5a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



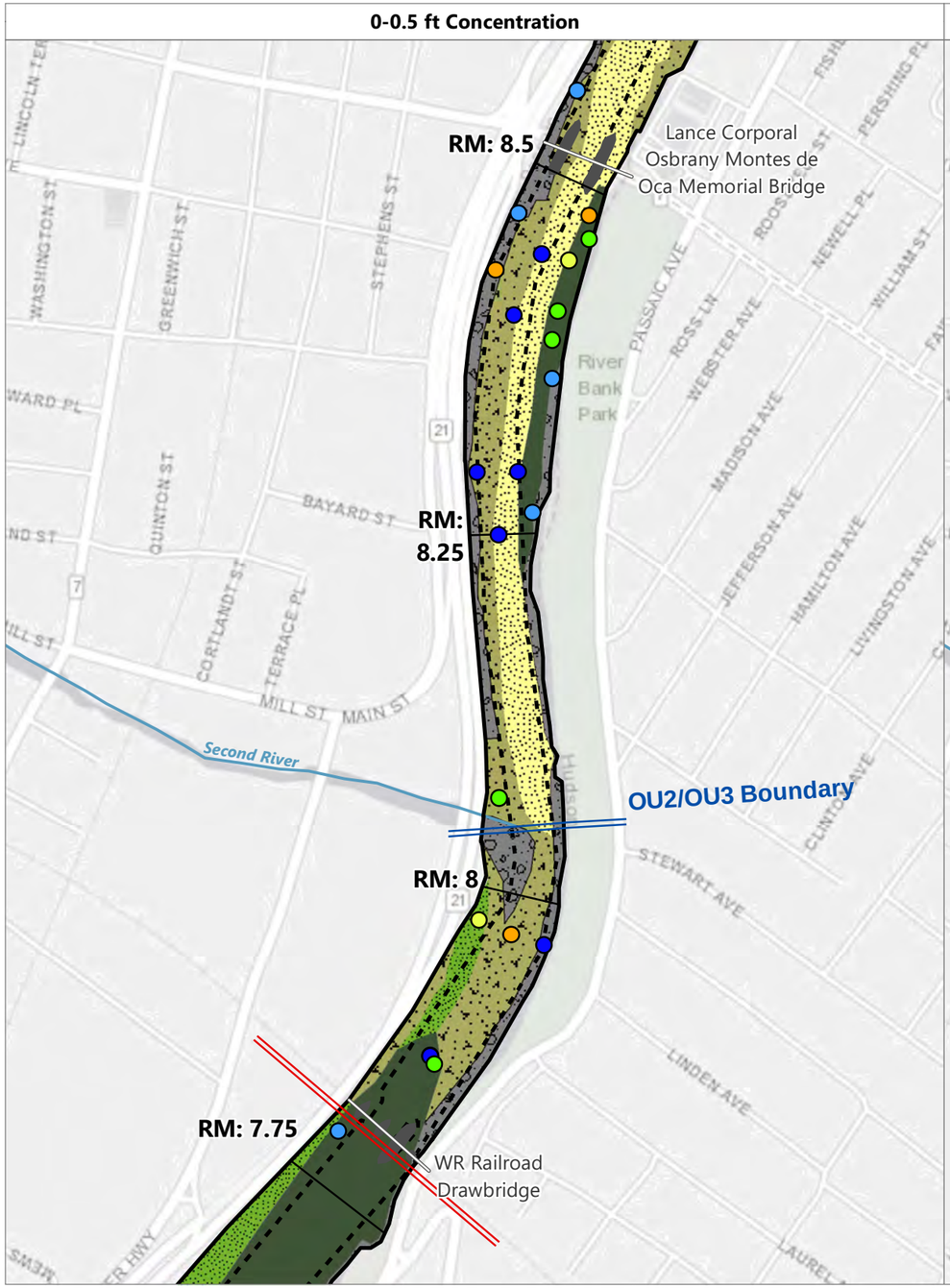
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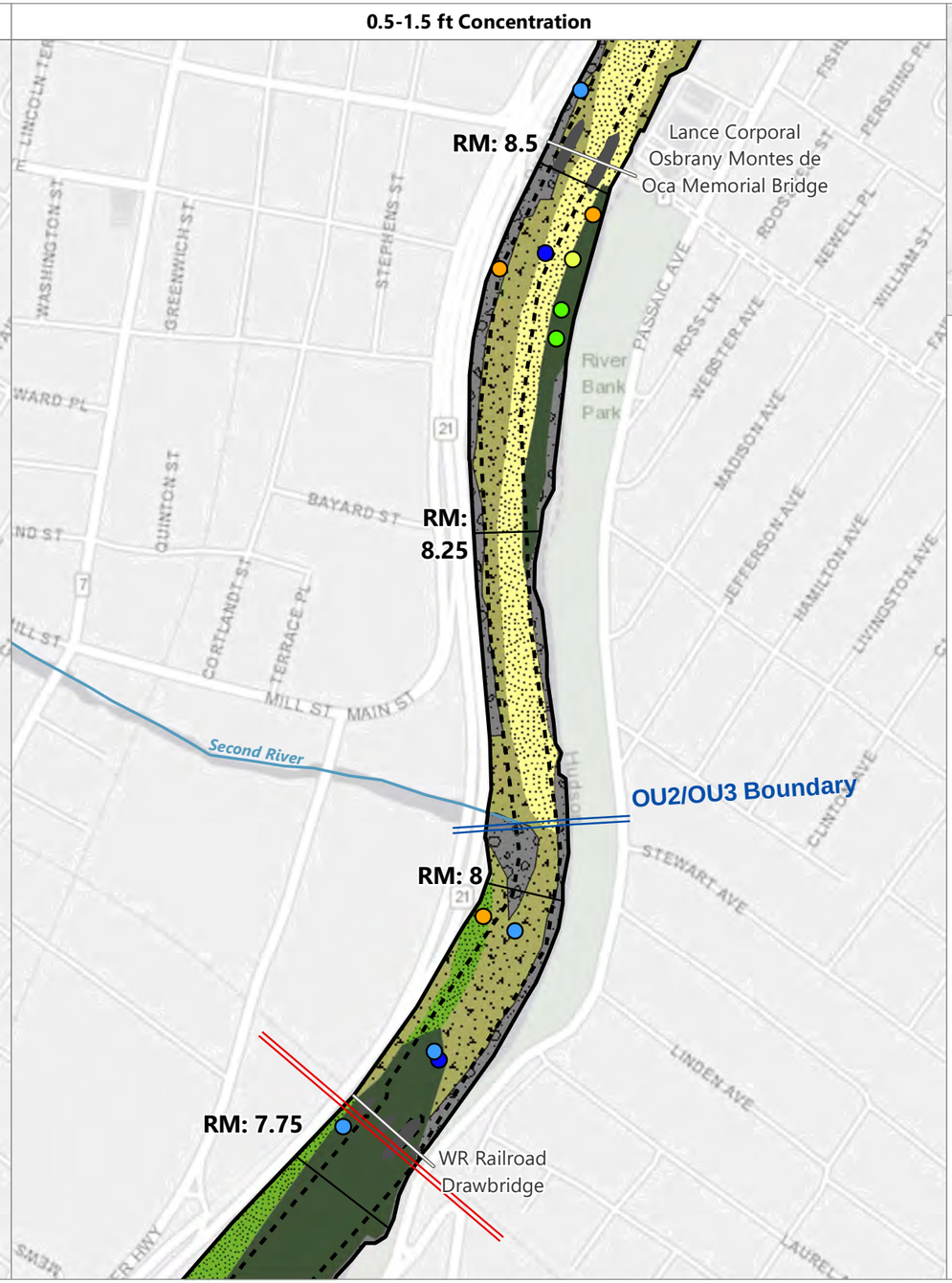
Figure 9-5b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

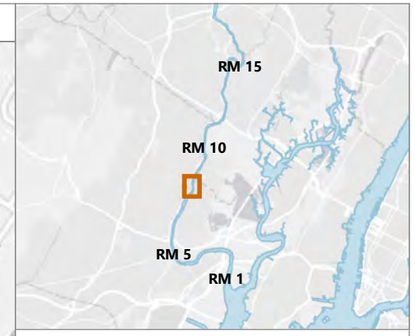


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Figure 9-6a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total LMW PAH Concentrations (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

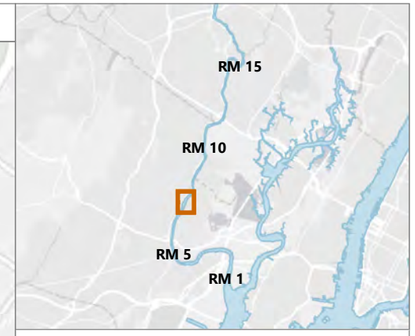
0 920
Feet

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Figure 9-6b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total LMW PAH Concentrations (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

SSS Sediment Types

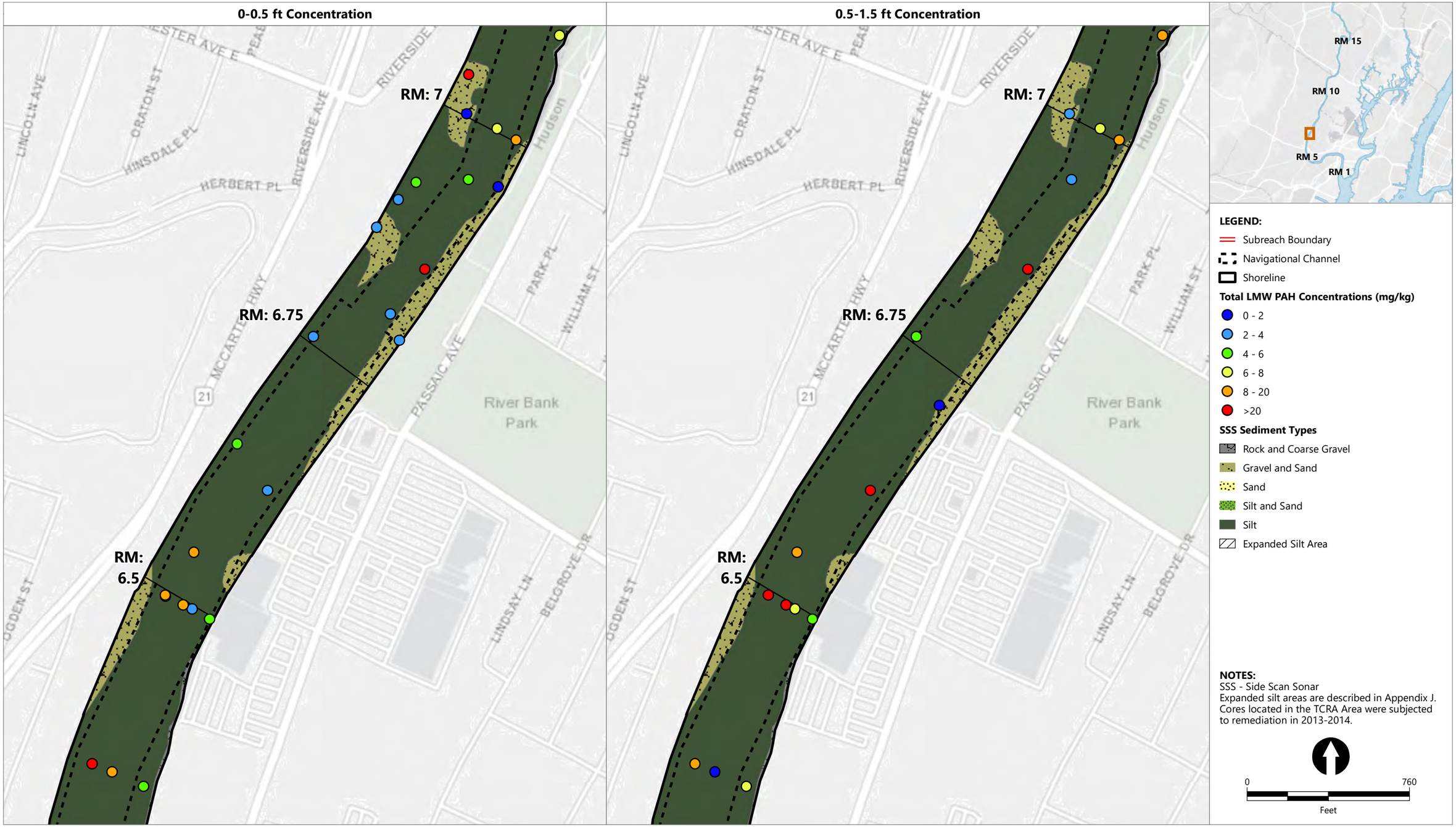
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
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0 980
Feet

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Figure 9-7a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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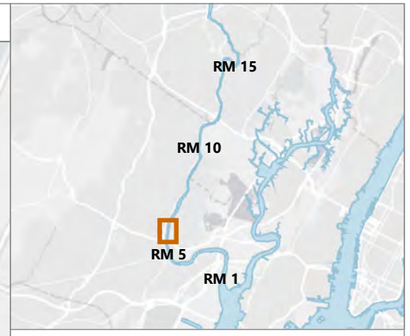
Figure 9-7b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study

0-0.5 ft Concentration

0.5-1.5 ft Concentration







LEGEND:

- Subreach Boundary
- Bridge
- Bridge Abutment
- Navigational Channel
- Shoreline

Total LMW PAH Concentrations (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

SSS Sediment Types

- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
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Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 980
Feet

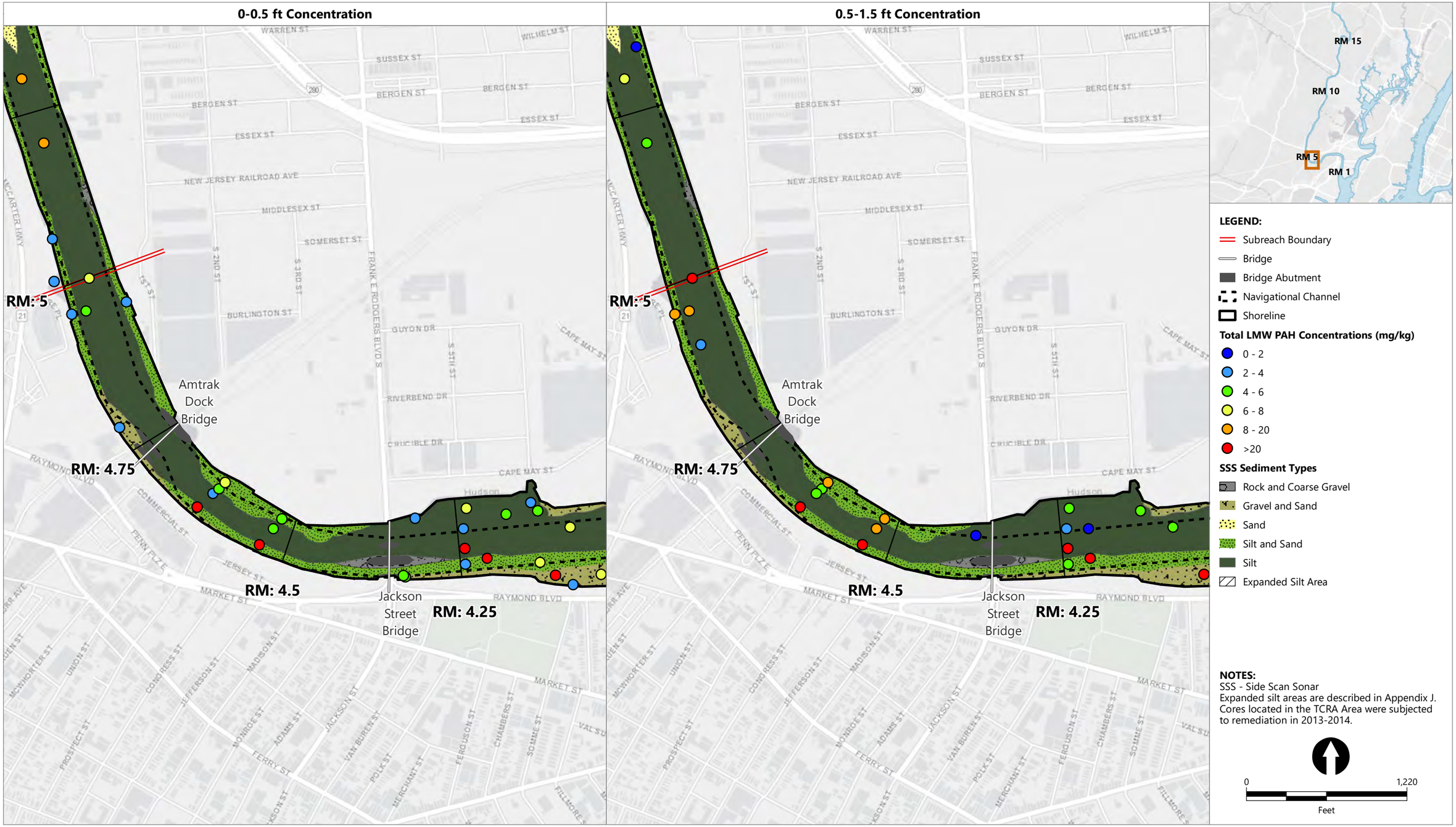
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Figure 9-7c
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



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Figure 9-7d
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



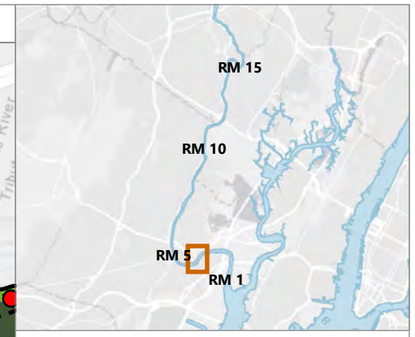
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Figure 9-8a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
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0-0.5 ft Concentration

0.5-1.5 ft Concentration





LEGEND:

- Subreach Boundary
- Navigational Channel
- Shoreline

Total LMW PAH Concentrations (mg/kg)

- 0 - 2
- 2 - 4
- 4 - 6
- 6 - 8
- 8 - 20
- >20

SSS Sediment Types

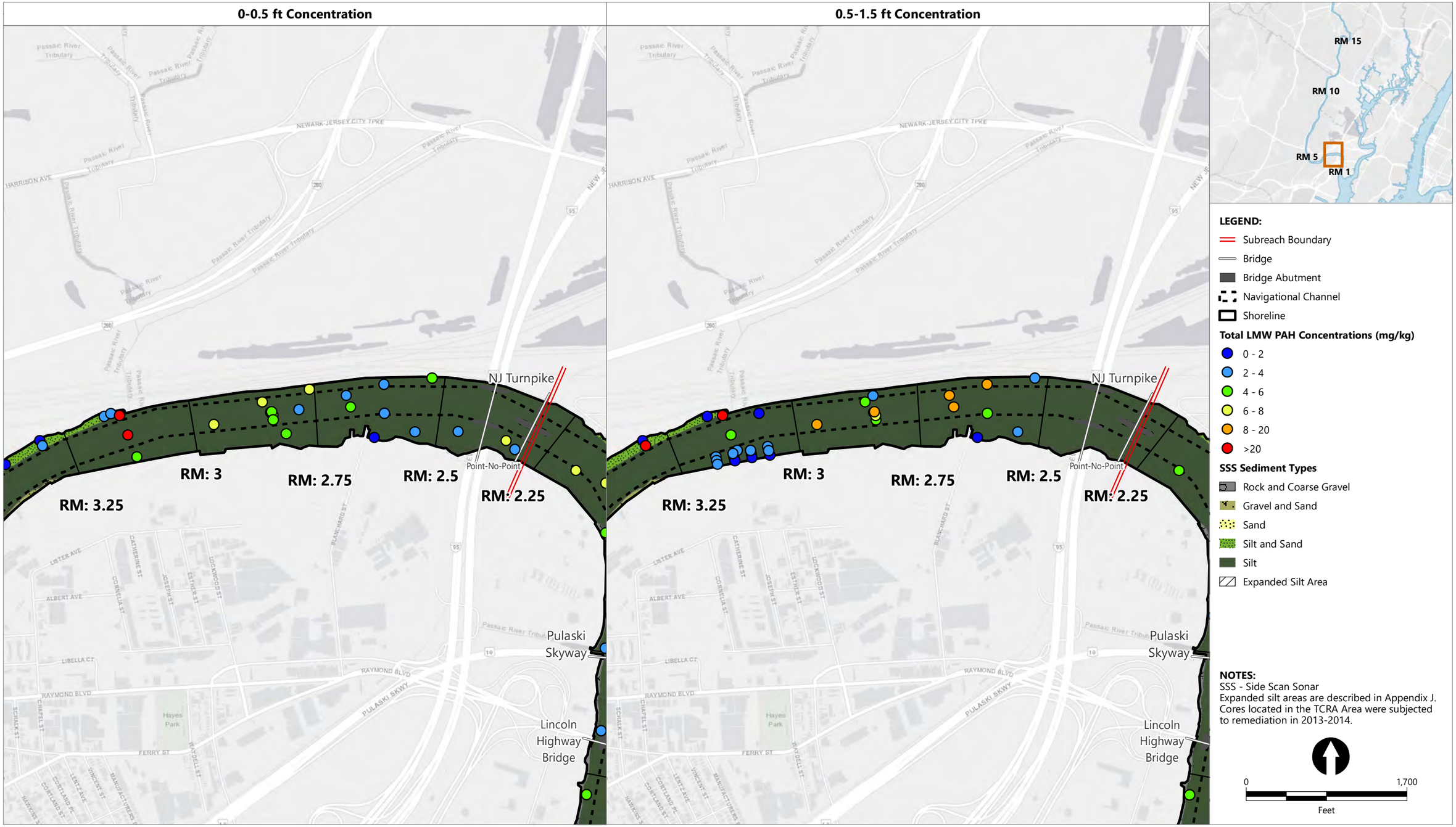
- Rock and Coarse Gravel
- Gravel and Sand
- Sand
- Silt and Sand
- Silt
- Expanded Silt Area

NOTES:
SSS - Side Scan Sonar
Expanded silt areas are described in Appendix J.
Cores located in the TCRA Area were subjected to remediation in 2013-2014.

0 1,160
Feet

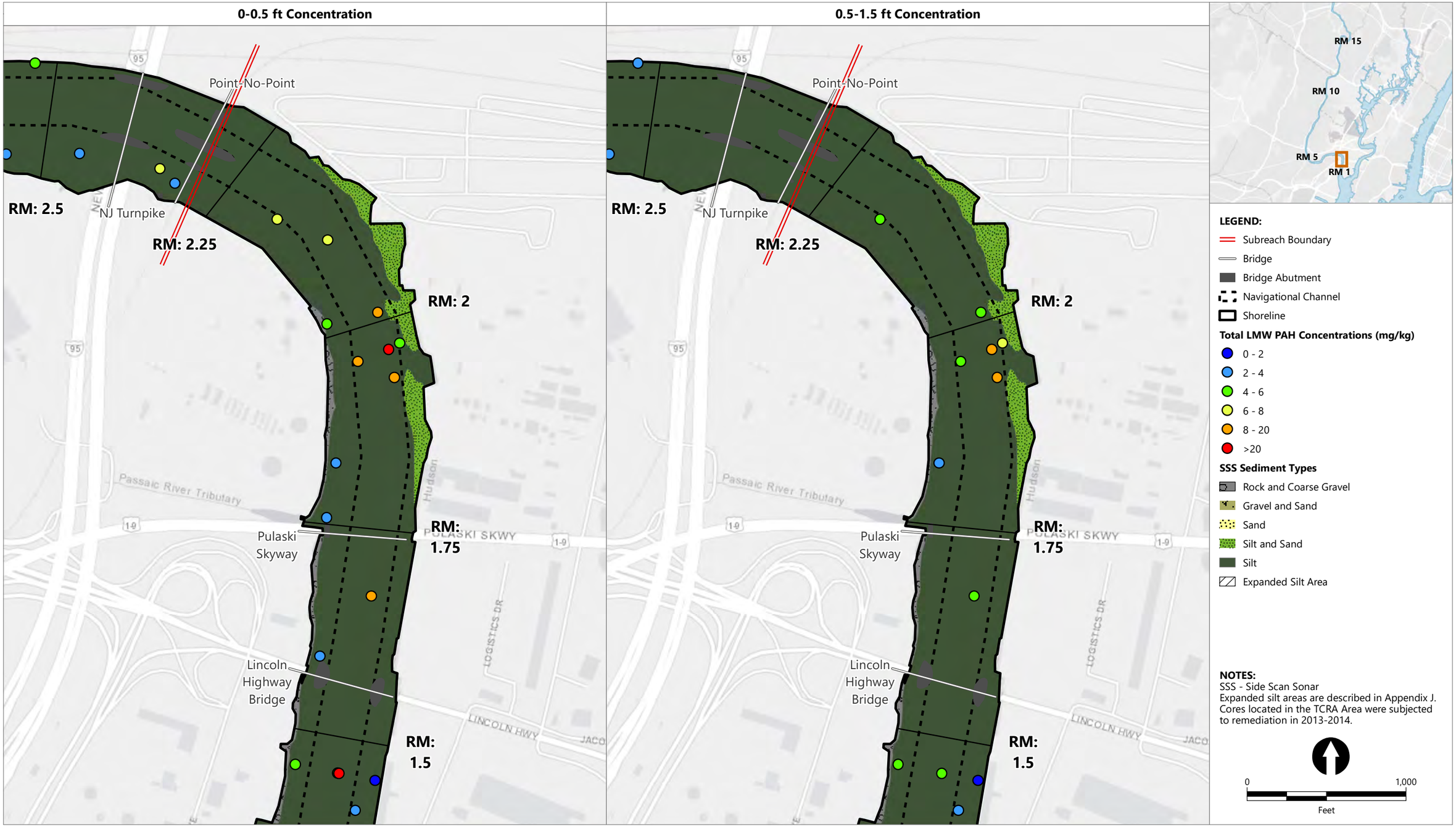
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Figure 9-8b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
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Figure 9-8c
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study



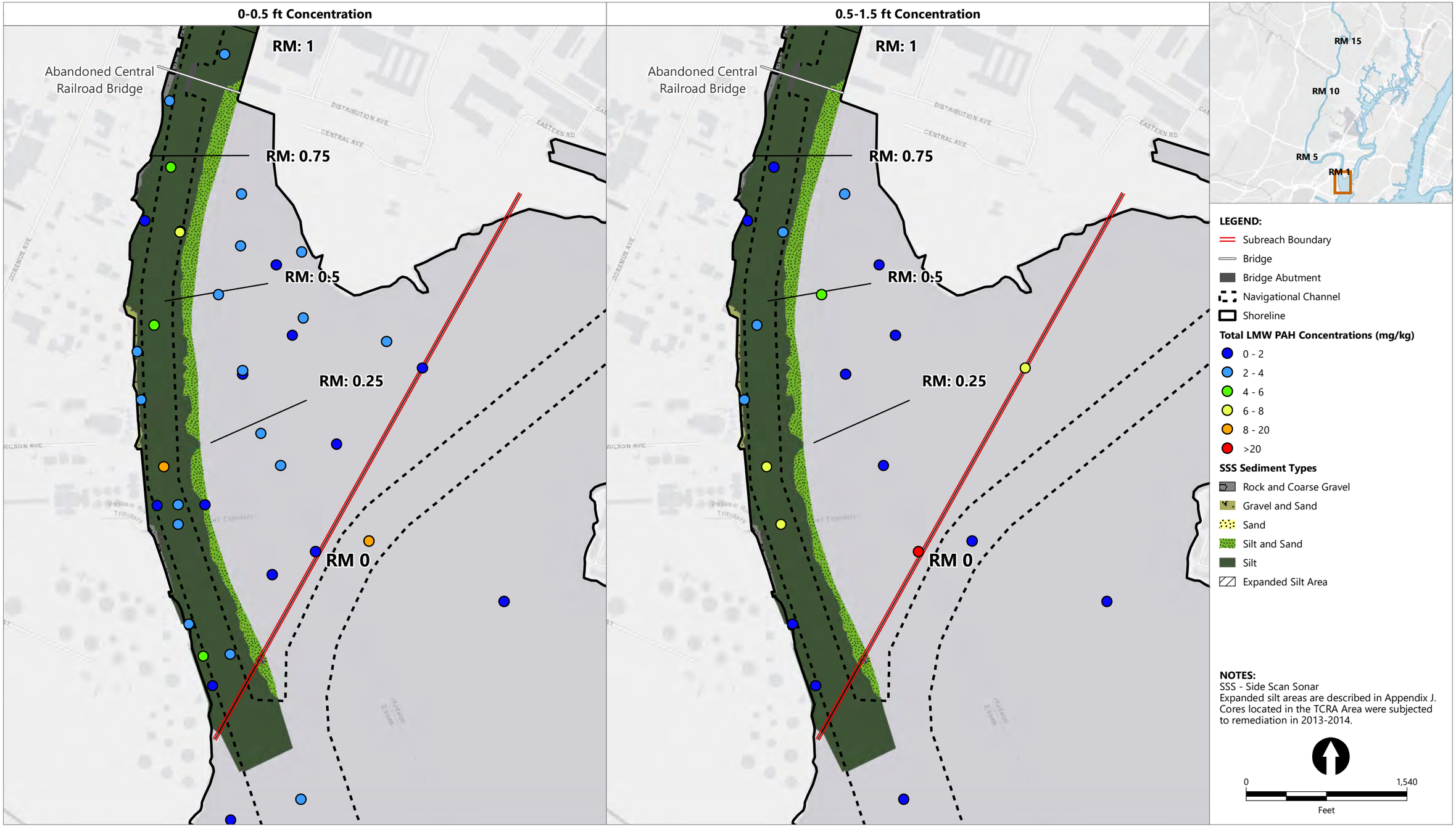
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Figure 9-9a
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
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Figure 9-9b
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
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Figure 9-9c
Surface and Subsurface Total LMW PAH Concentrations Over Sediment Type
Remedial Investigation Report
Lower Passaic River Study Area Remedial Investigation/Feasibility Study