Figure 1-1
Lower Passaic River Restoration Project
Site Location Map

Figure 1-2
Lower Passaic River Restoration Project
Superfund Sites on the National 'Priorities' List

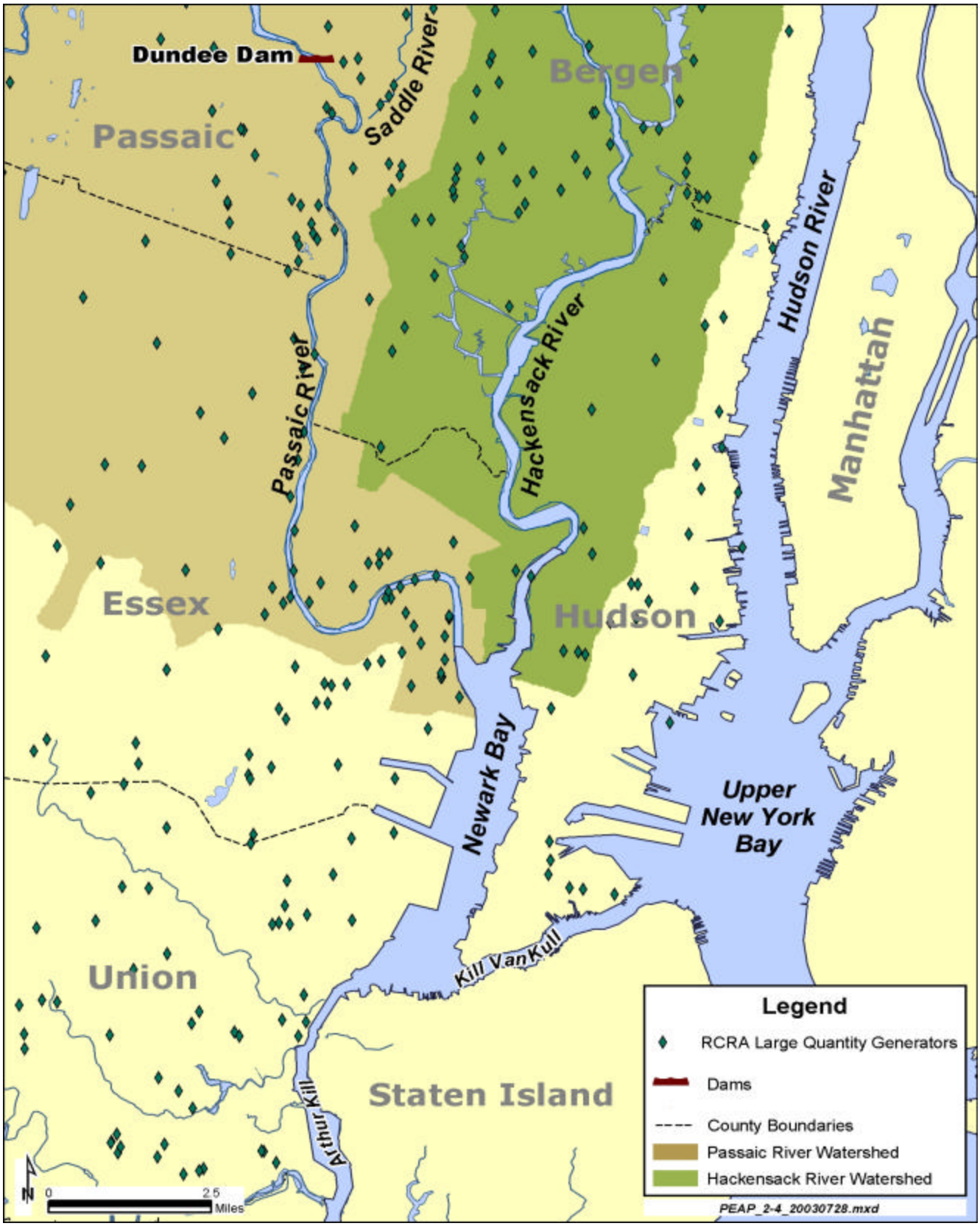


Figure 1-3
Lower Passaic River Restoration Project
Regulated RCRA Facilities

Image: 1995 DOQQs State of New Jersey

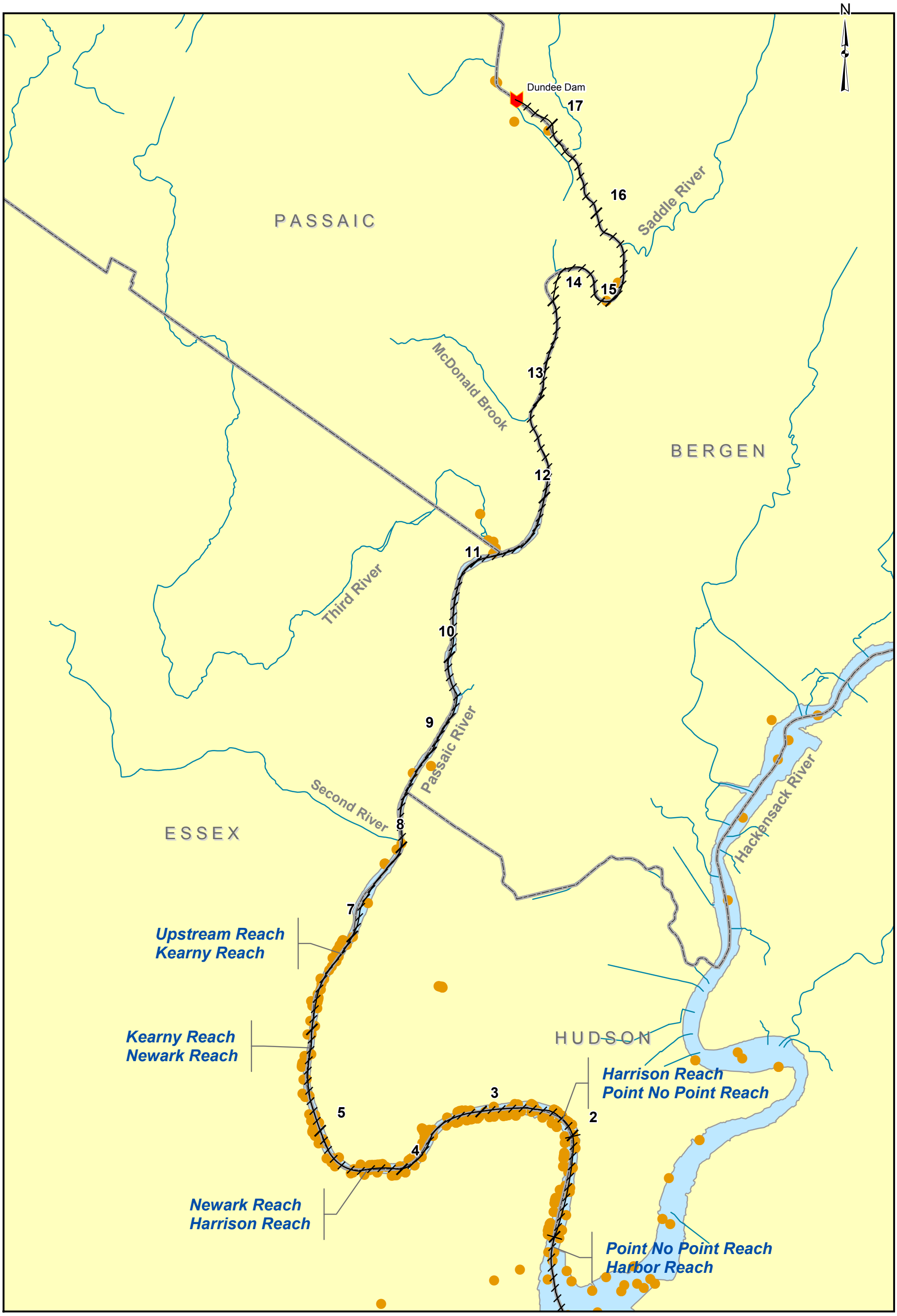
Paterson Area Outfalls

Figure 1-4

Image: 1995 DOQQs State of New Jersey

Newark Area Outfalls

Figure 1-5



Legend

- Surface Sample Locations
- Counties

0 0.5 1 2 Miles

Lower Passaic River Restoration Project
Surficial Sediment Sample Locations
Figure 3 -1

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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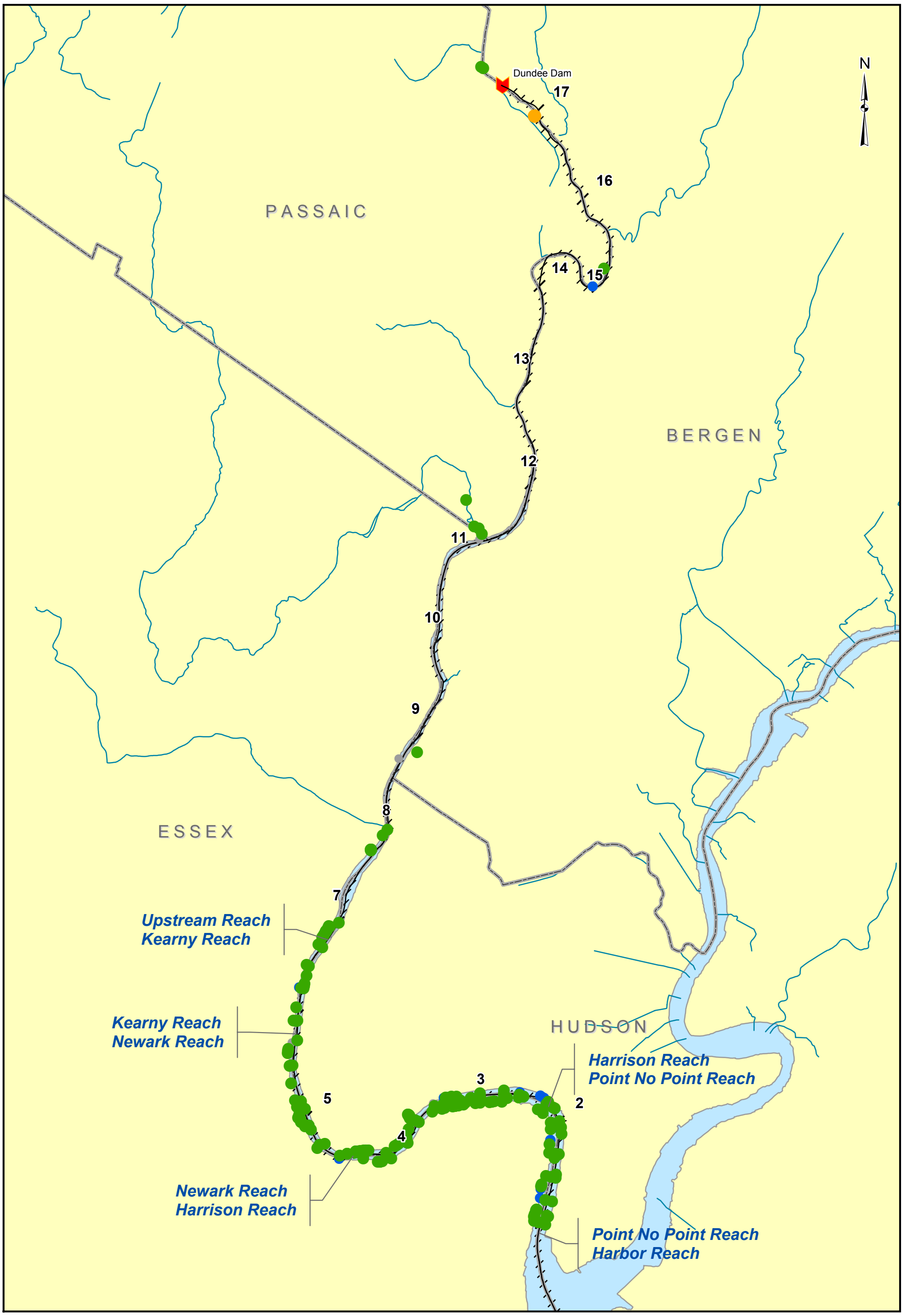

Lead (PPB)

- 0 - 100,000
- 100,001 - 218,000
- 218,001 - 1,000,000
- 1,000,001 - 10,000,000

0 0.5 1 2 Miles

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-2

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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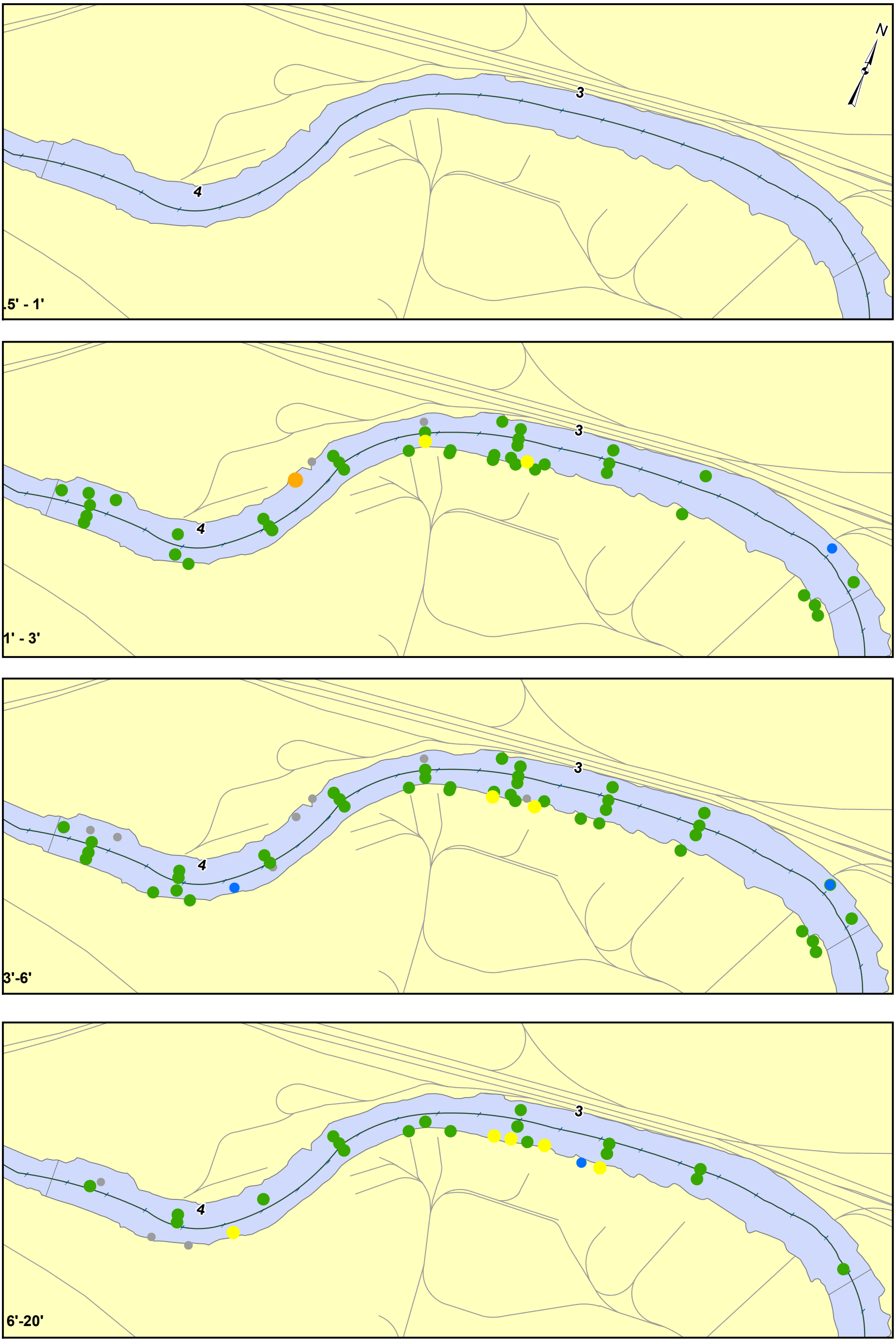

Lead (PPB)

- 1,700 - 100,000
- 100,001 - 218,000
- 218,001 - 1,000,000
- 1,000,001 - 10,000,000
- 10,000,001 - 100,000,000

0 0.25 0.5 1 Miles

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-3

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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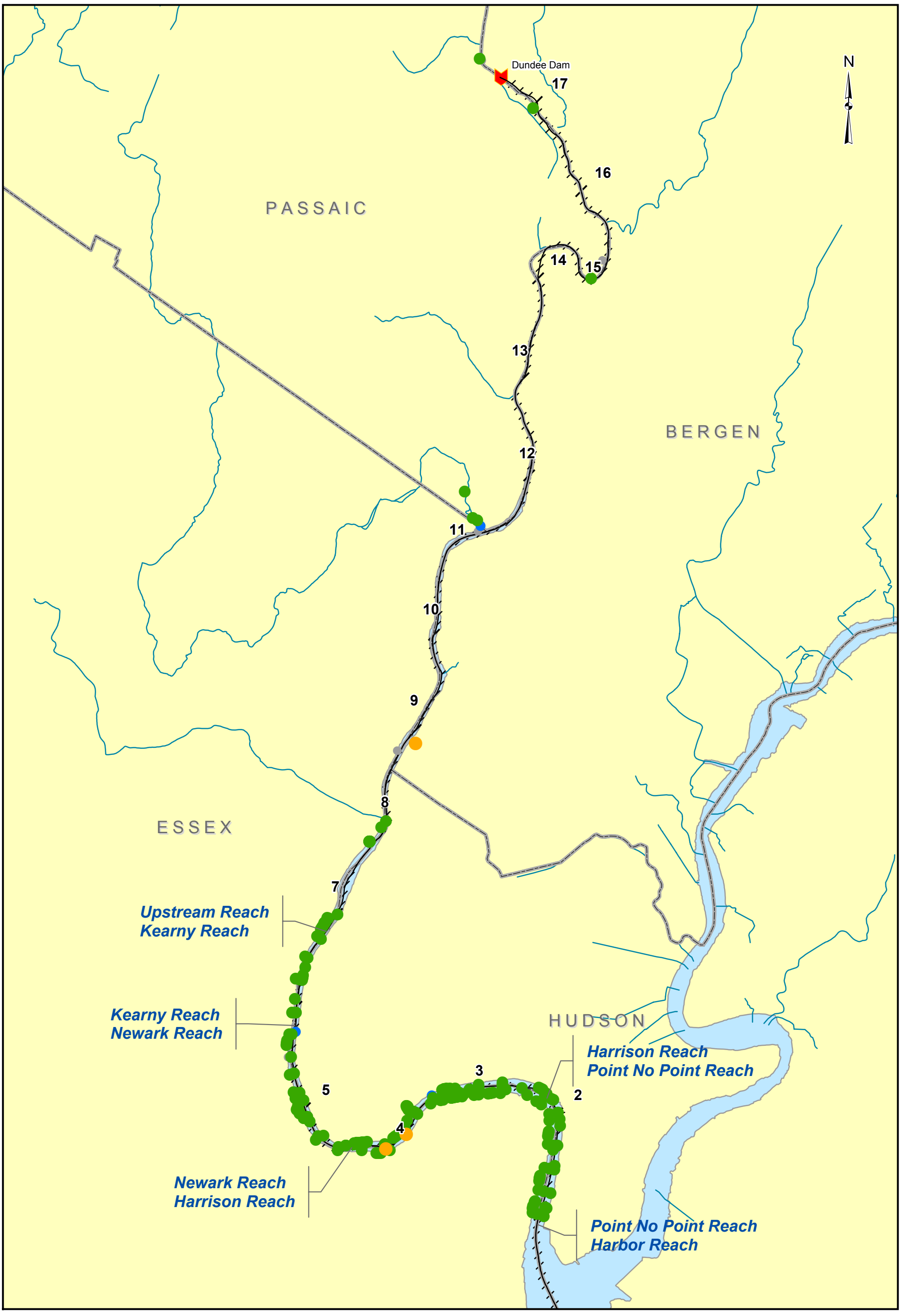

Mercury (PPB)

- 0 - 710
- 711 - 1,000
- 1,001 - 10,000
- 10,001 - 100,000

0 0.5 1 2 Miles

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-4

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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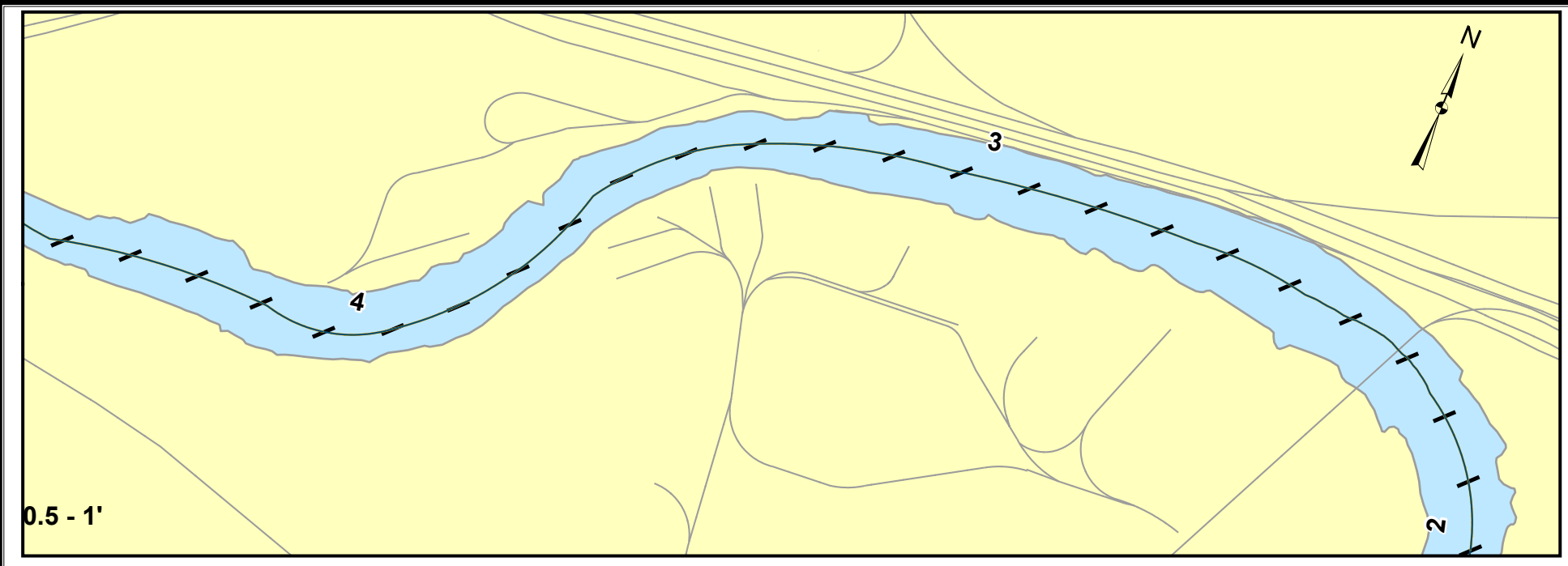

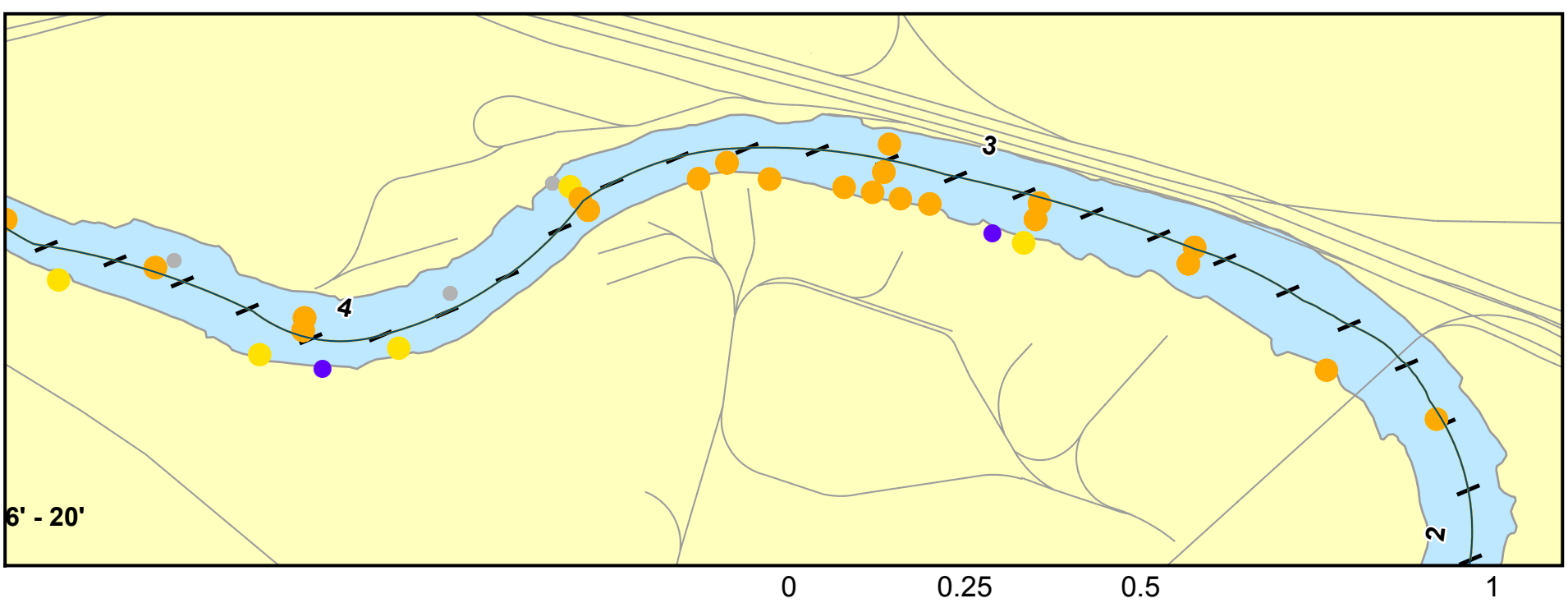

0 0.25 0.5 1 Miles

Mercury (PPB)

- 0 - 100
- 100 - 710
- 710 - 1,000
- 1,000 - 10,000
- 10,000 - 30,000

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-5

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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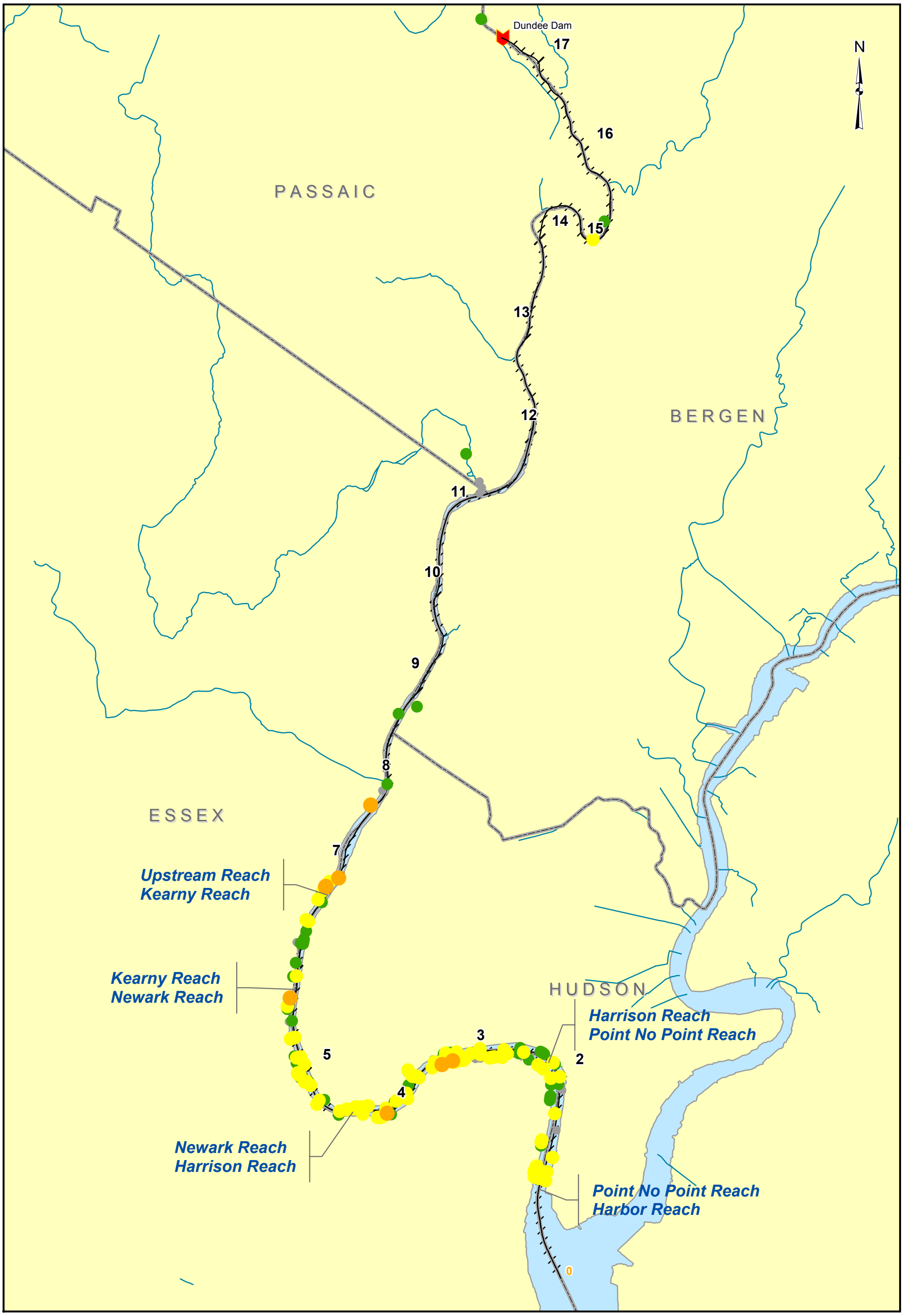

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-6

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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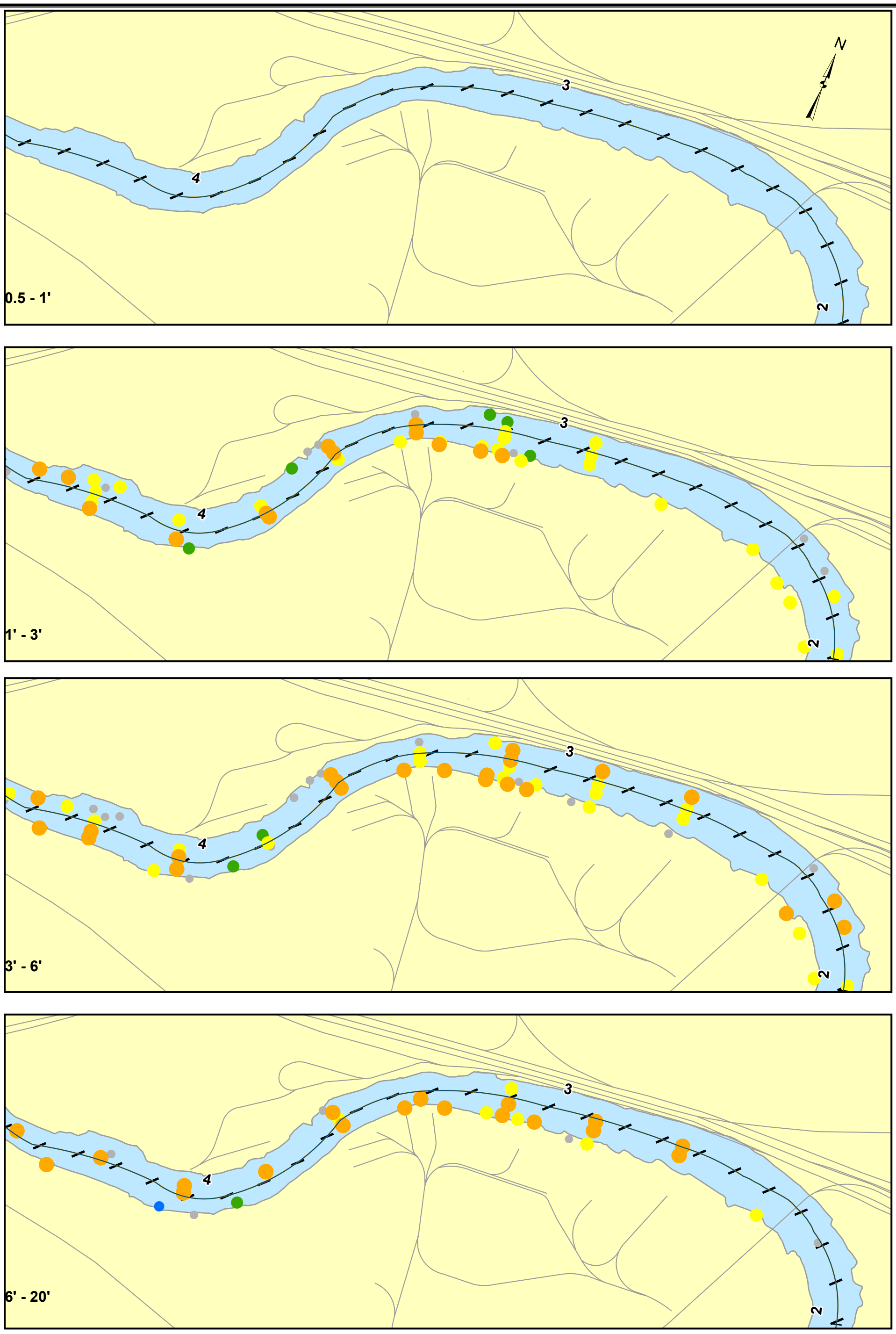

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-7

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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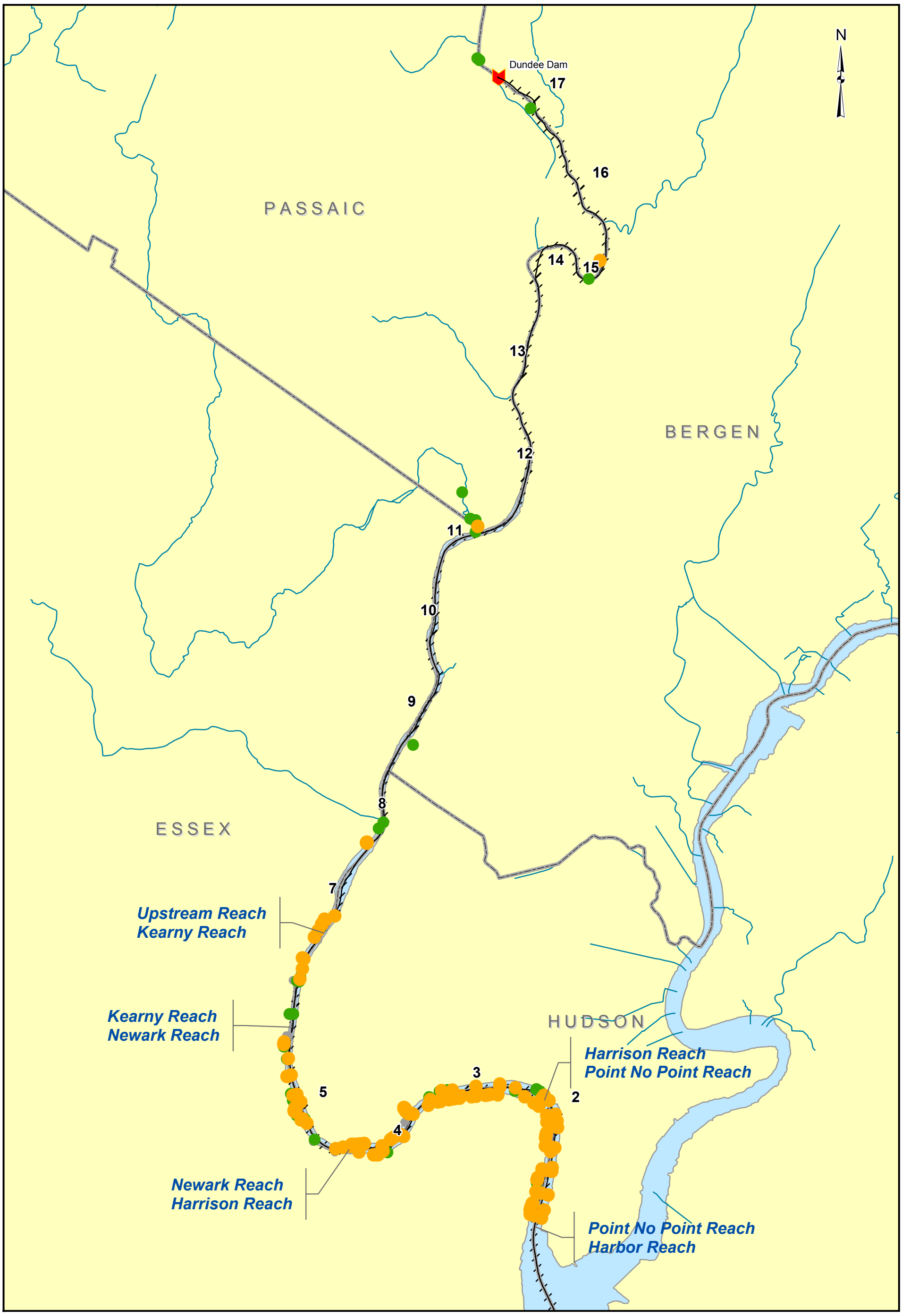

Cobalt (PPB)

- 0 - 100
- 101 - 1,000
- 1,001 - 10,000
- 10,001 - 100,000

0 0.5 1 2 Miles

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-8

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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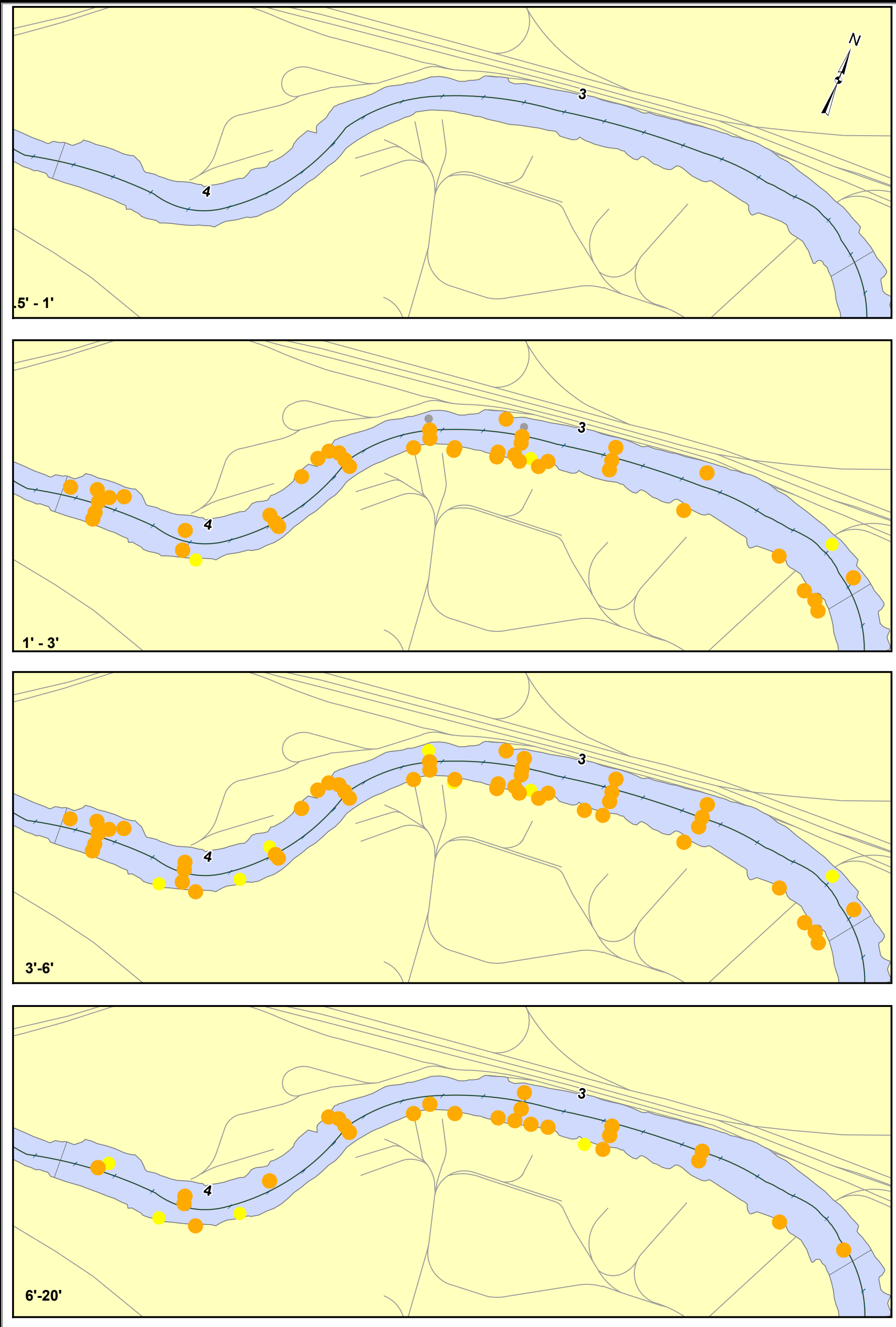

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-9

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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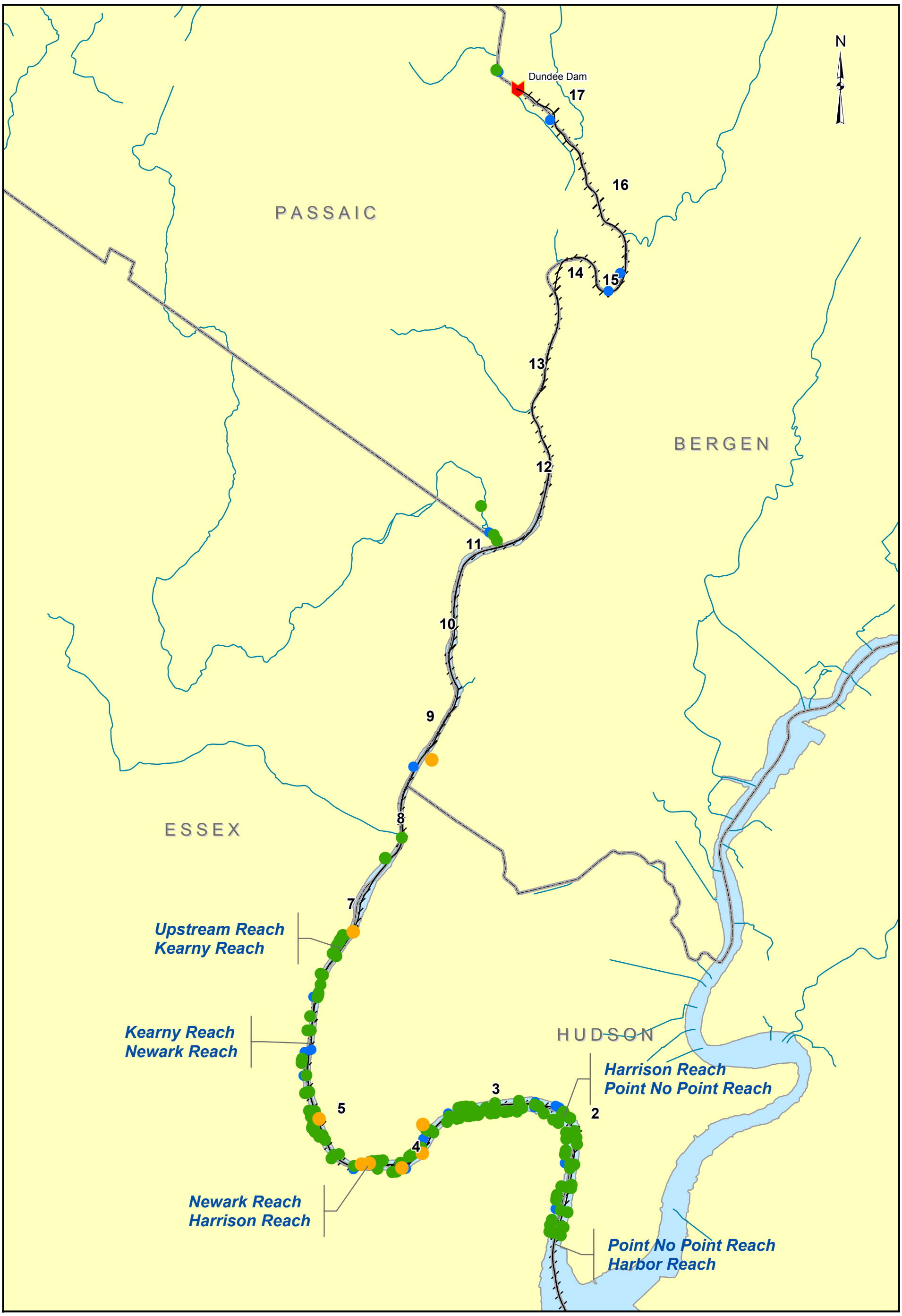

Zinc (PPB)

- 1 - 100,000
- 100,001 - 410,000
- 410,001 - 1,000,000
- 1,000,001 - 10,000,000

Miles
0 0.5 1 2

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-10

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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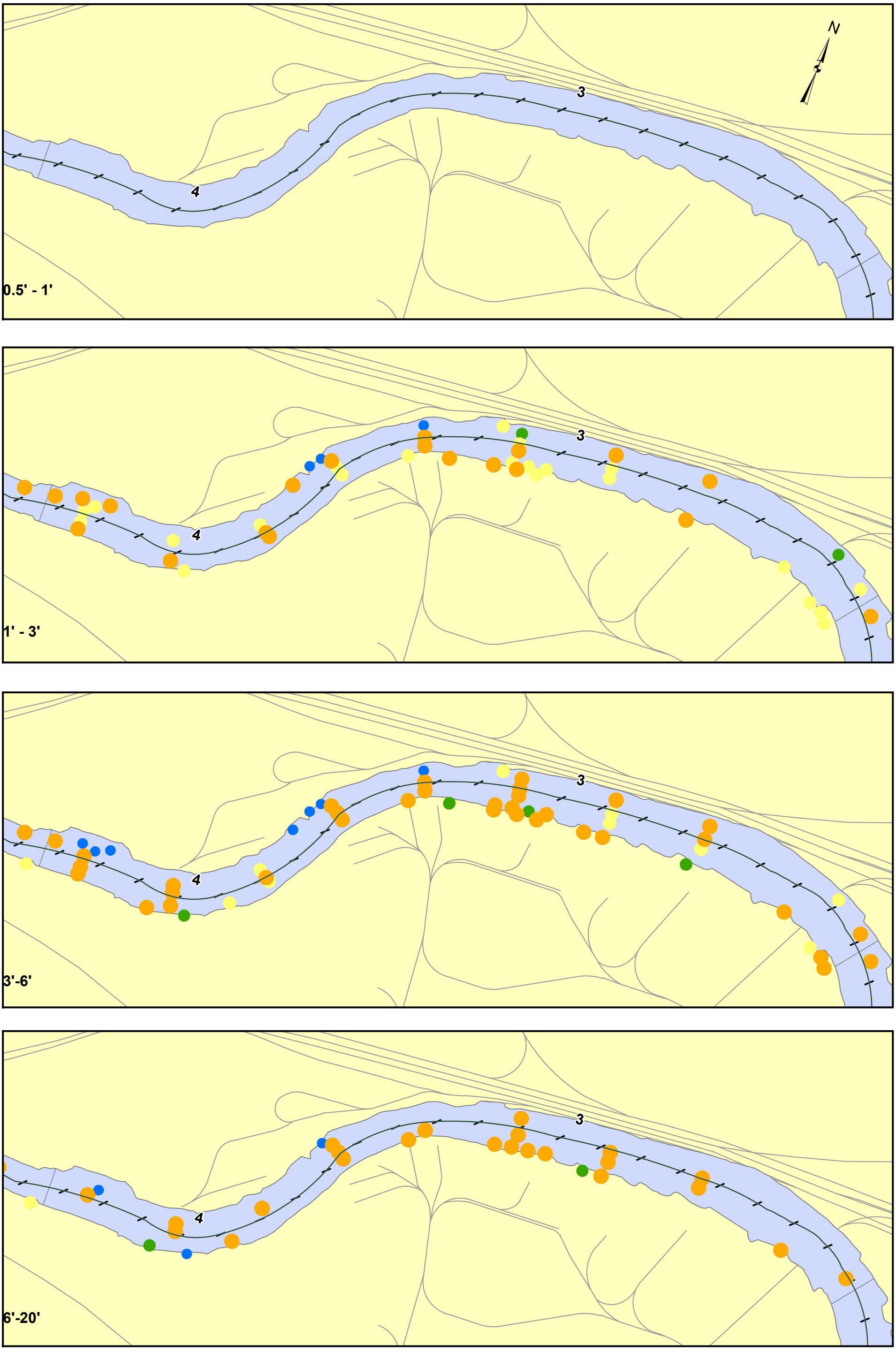

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-11

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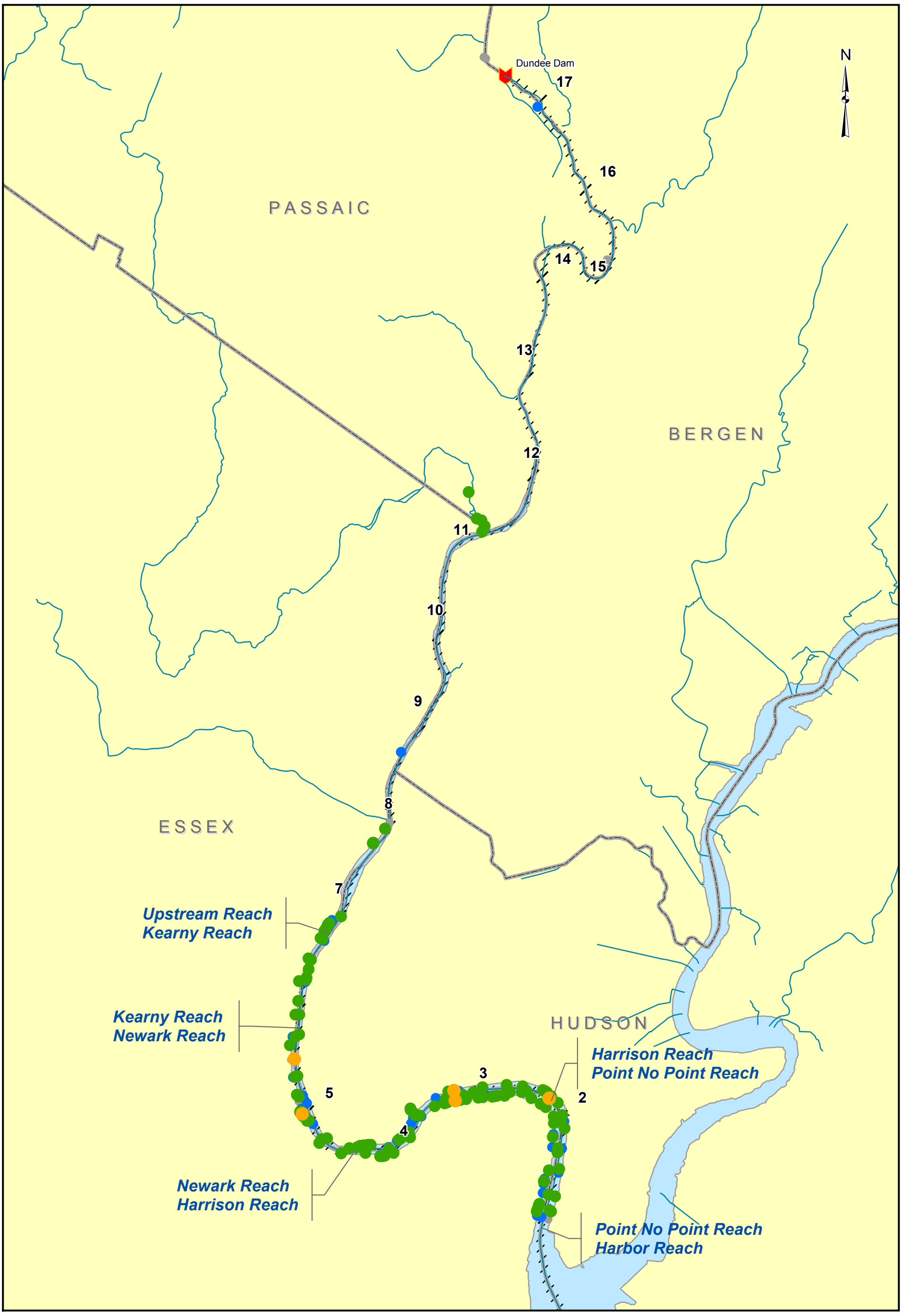

Total DDT (PPB)

- 0 - 46
- 47 - 100
- 101 - 1,000
- 1,001 - 10,000

Miles
0 0.5 1 2

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-12

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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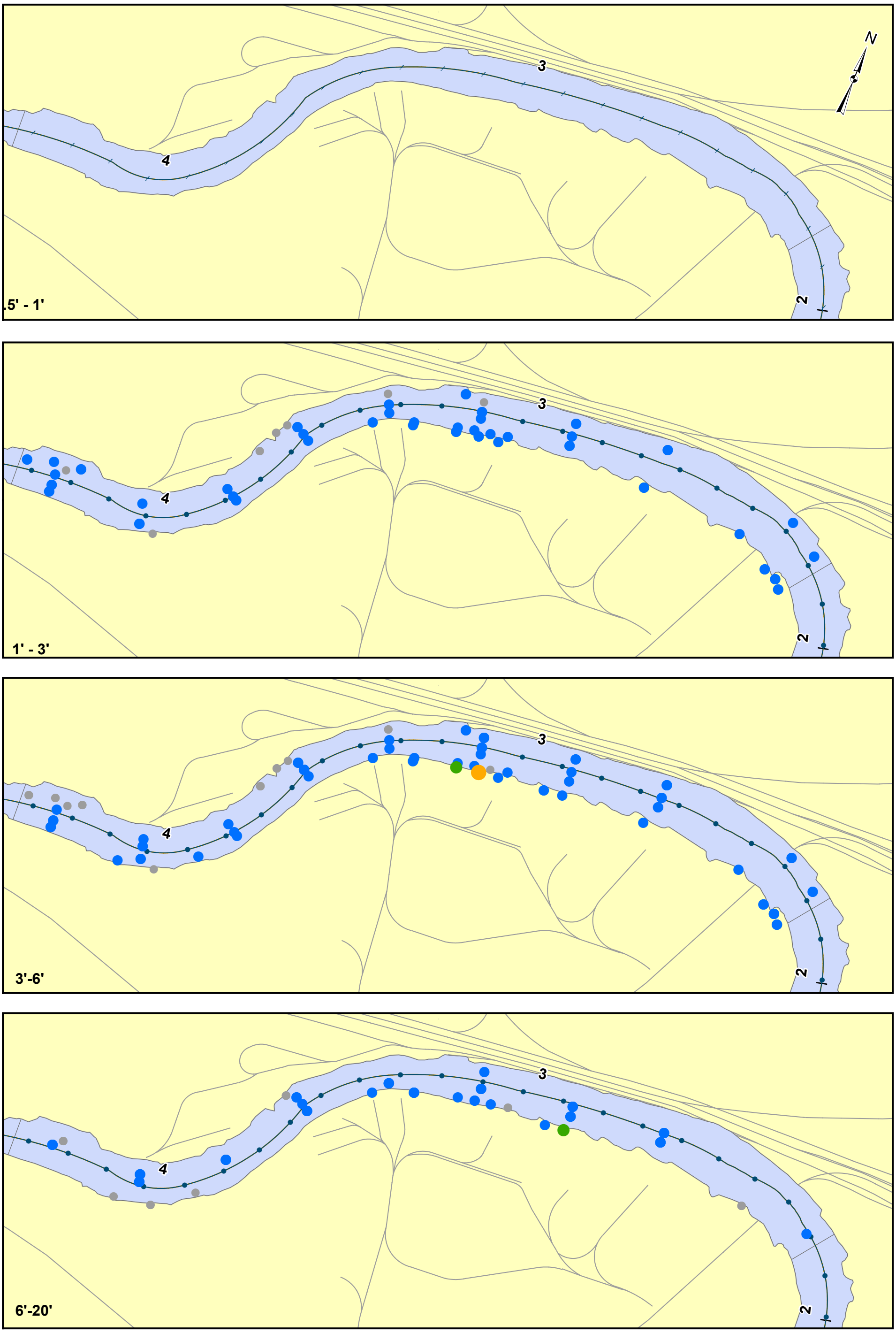

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-13

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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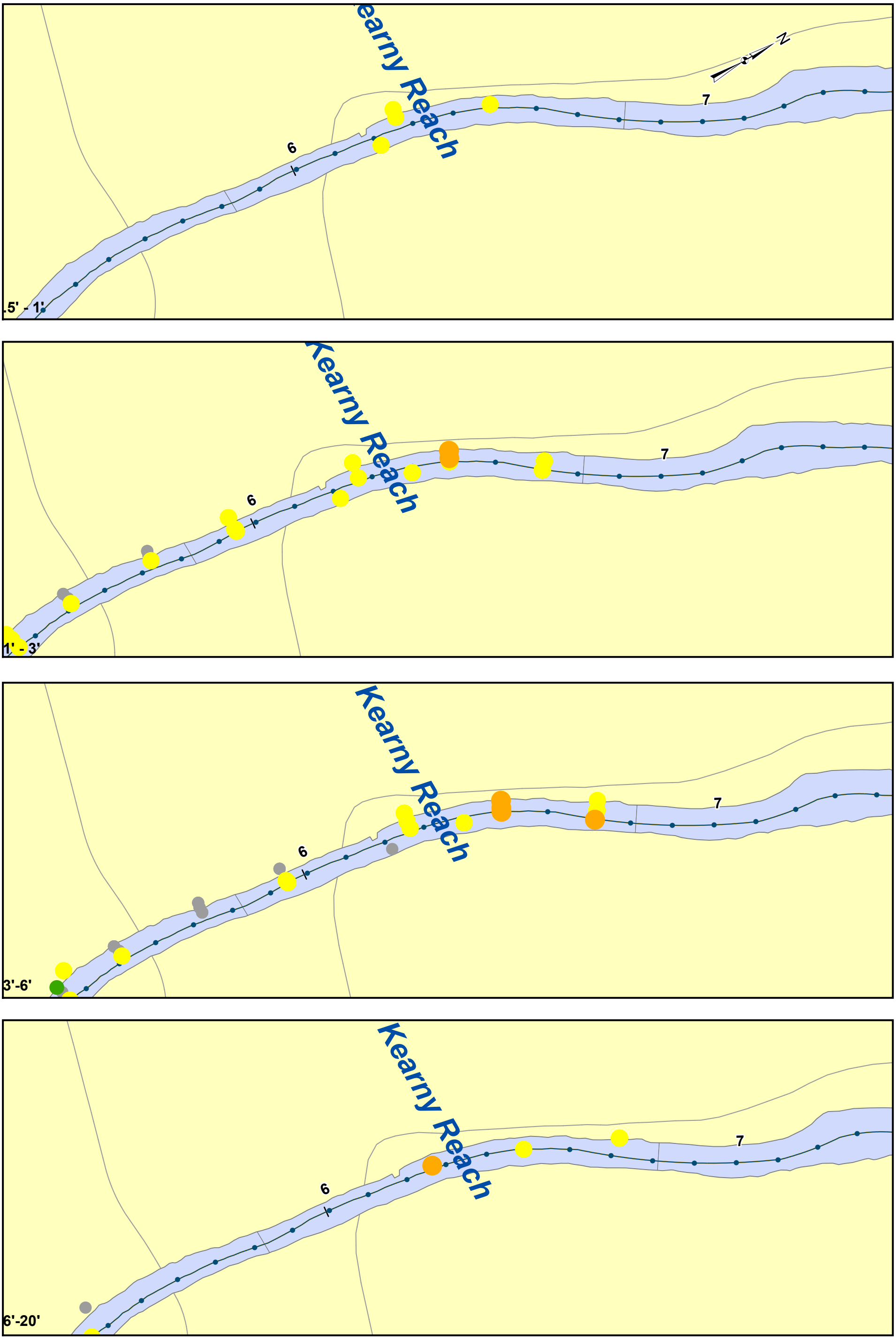

Lower Passaic River Restoration Project
Subsurface Sediment
Newark & Kearny Reaches Figure 3-14

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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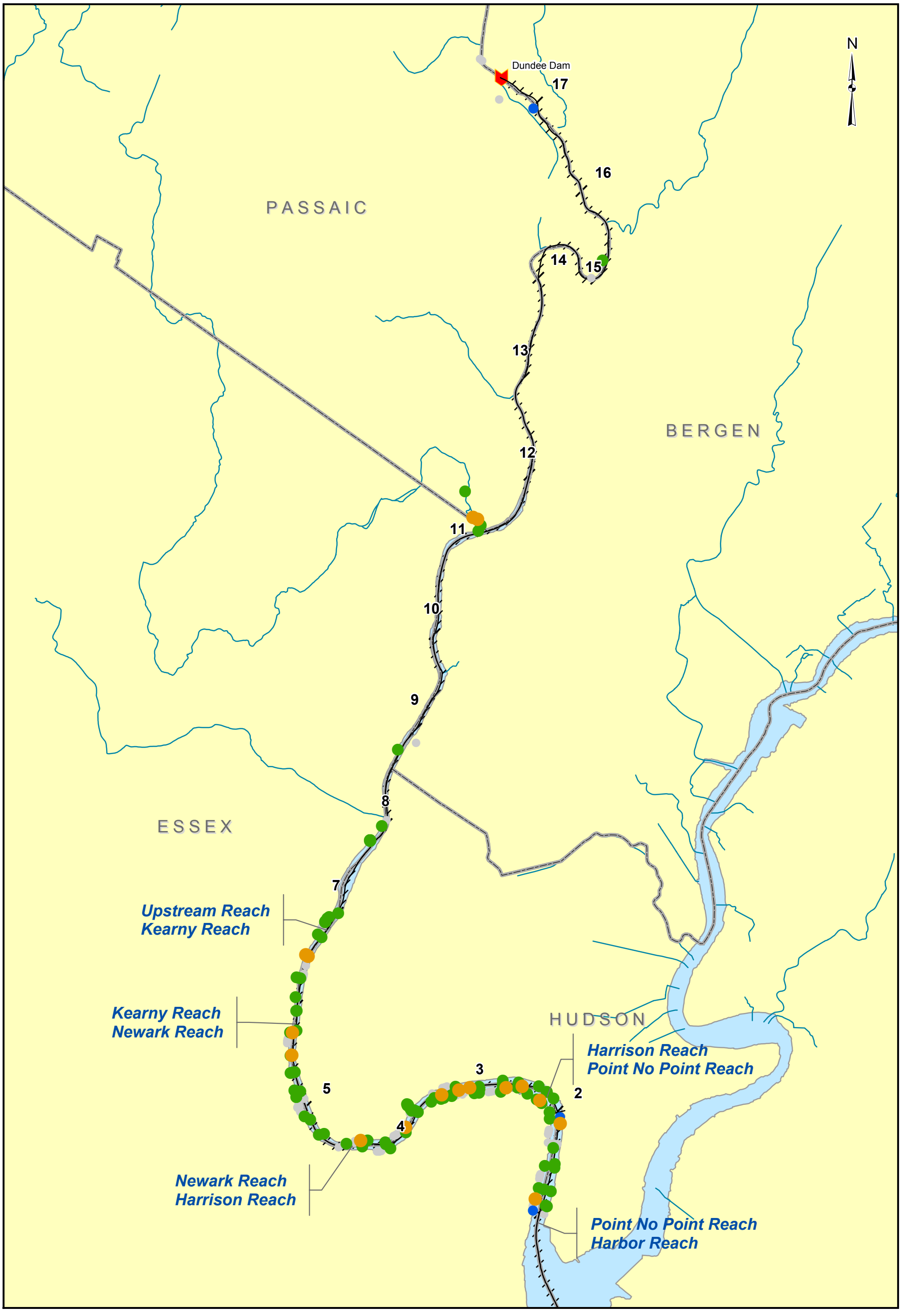

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-15

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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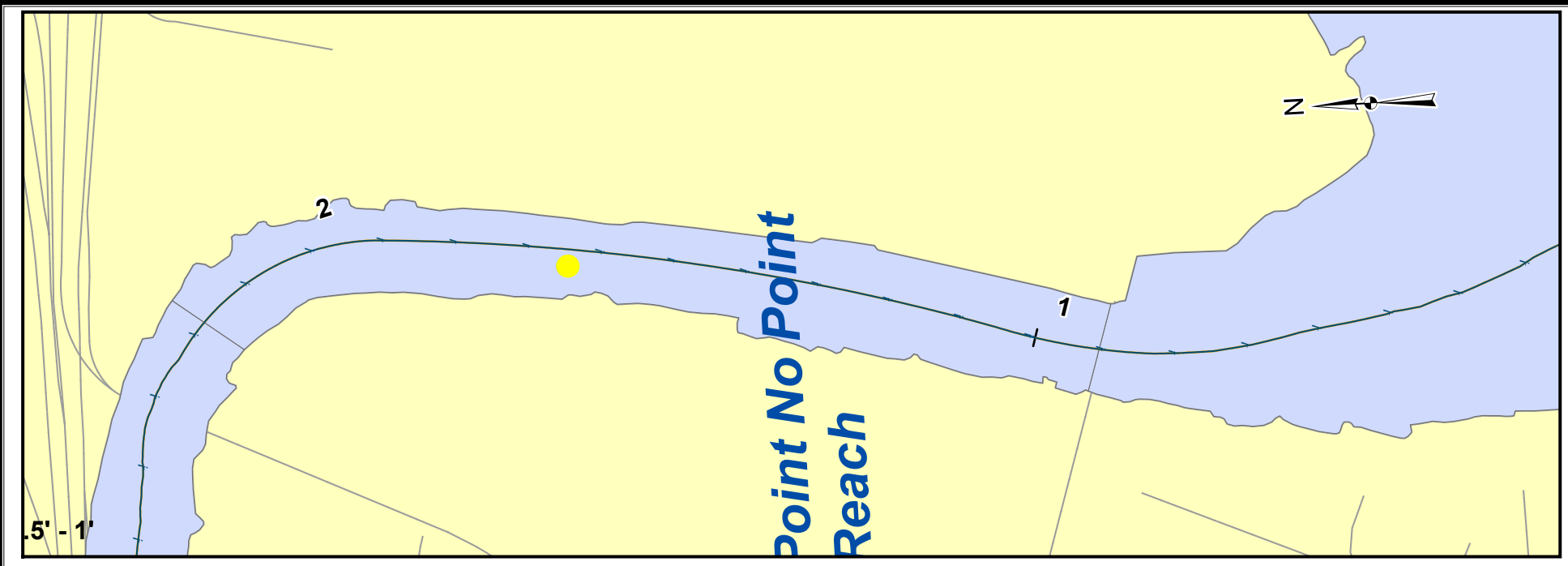

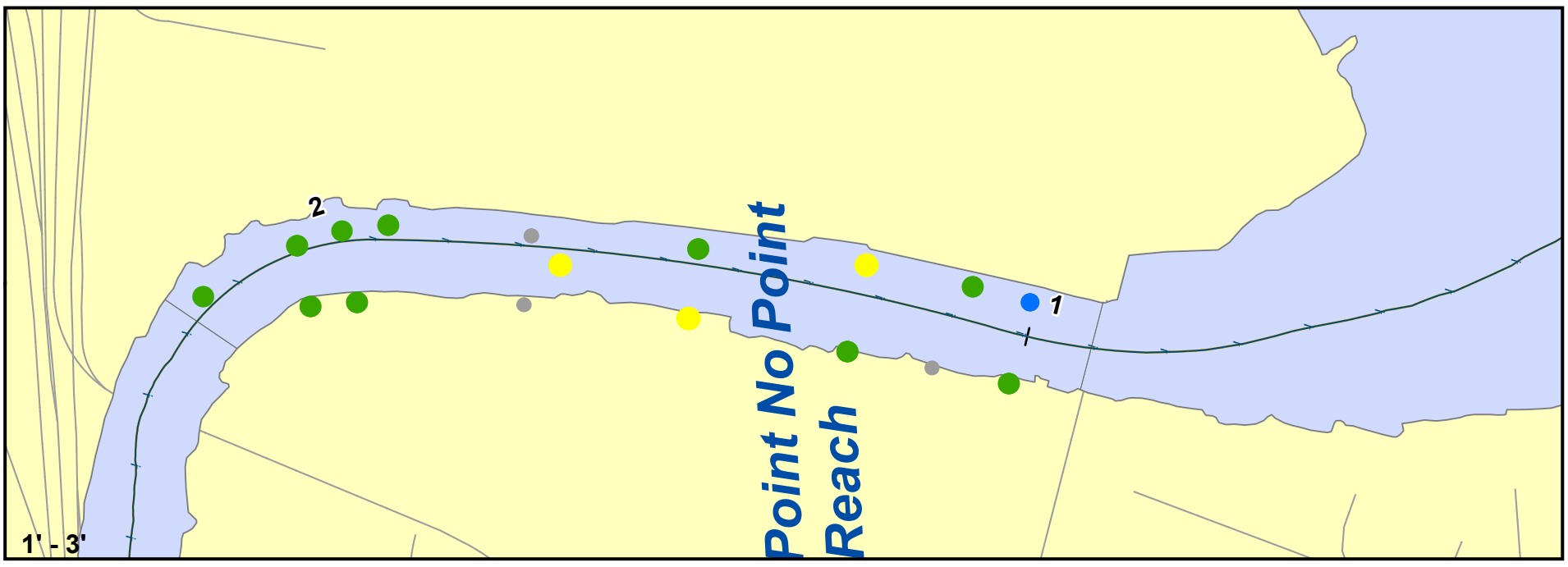

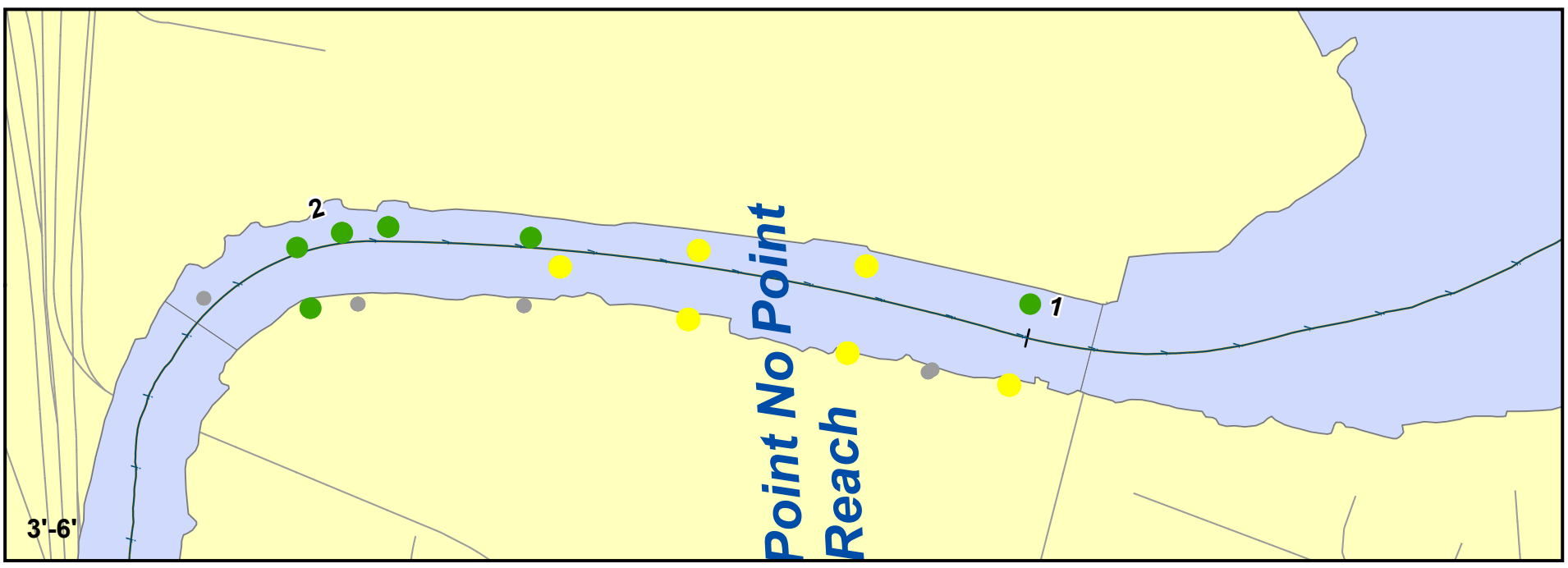

Legend

Total Chlordane (PPB)

- 0 - 7
- 7 - 10
- 10 - 100
- 100 - 1,000

0 0.25 0.5 1 Miles

Lower Passaic River Restoration Project
Subsurface Sediment
Point No Point Reach Figure 3-16

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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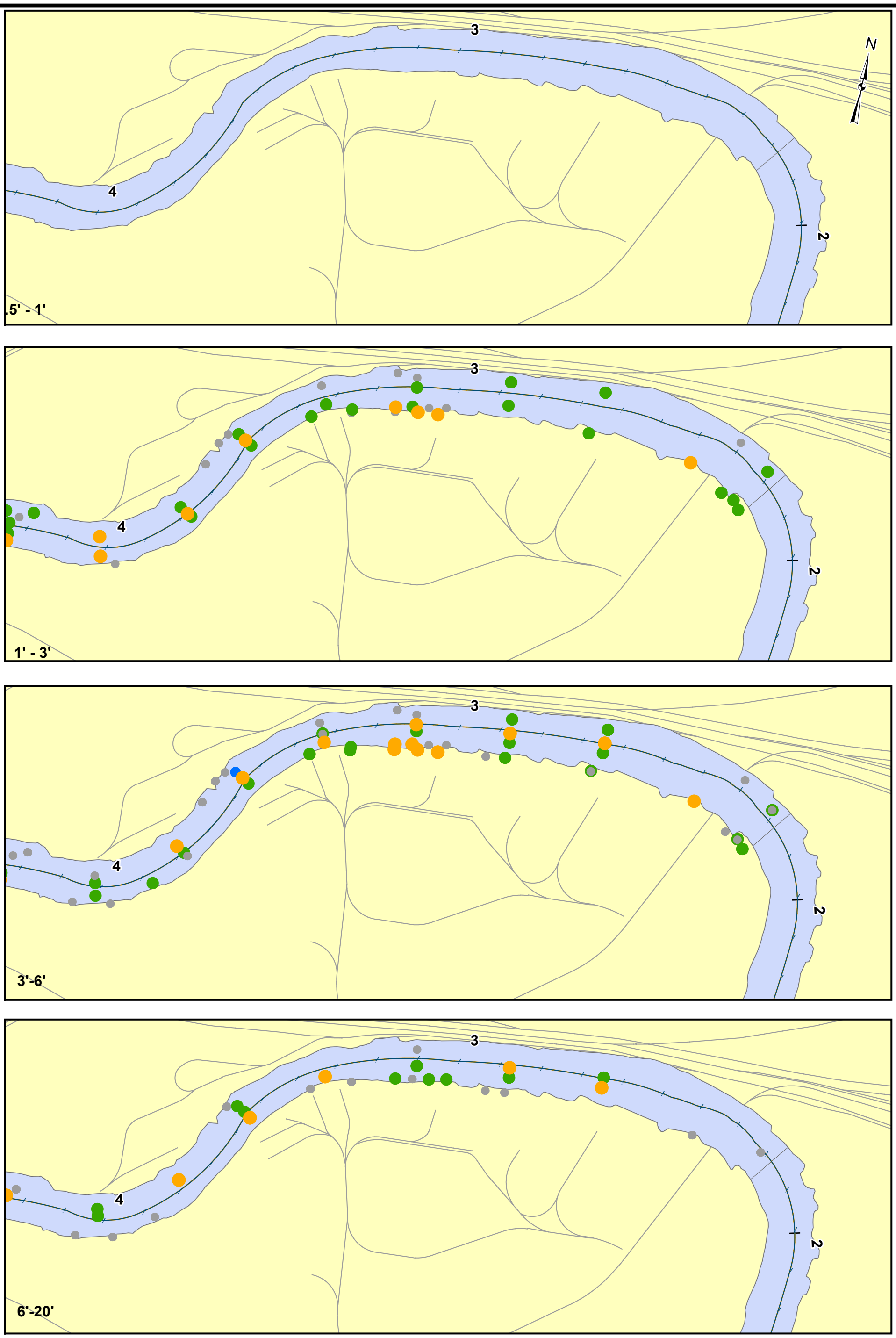

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-17

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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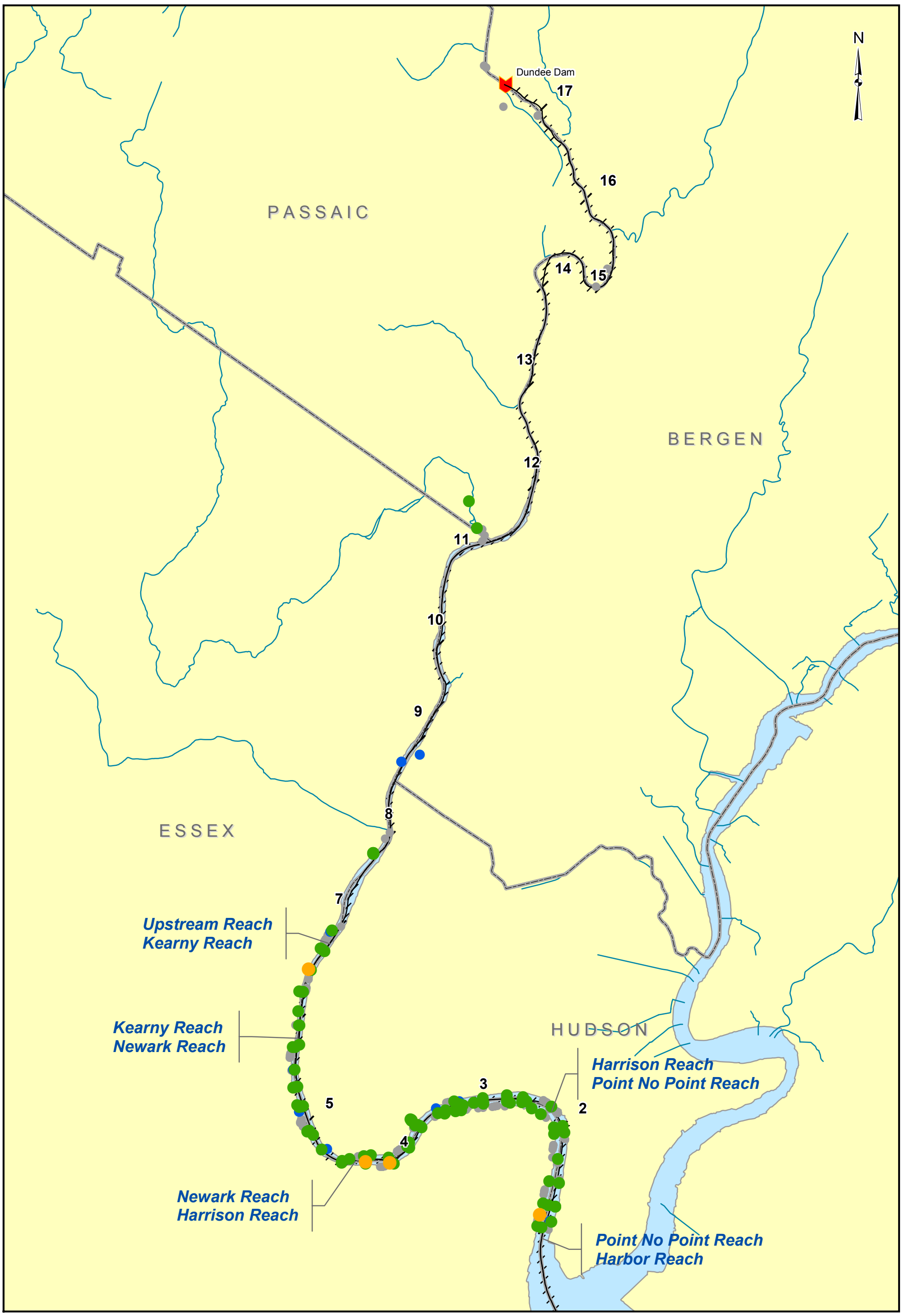

Dieldrin (PPB)

- 0 - 4
- 5 - 10
- 11 - 100
- 101 - 1,000

0 0.5 1 2 Miles

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-18

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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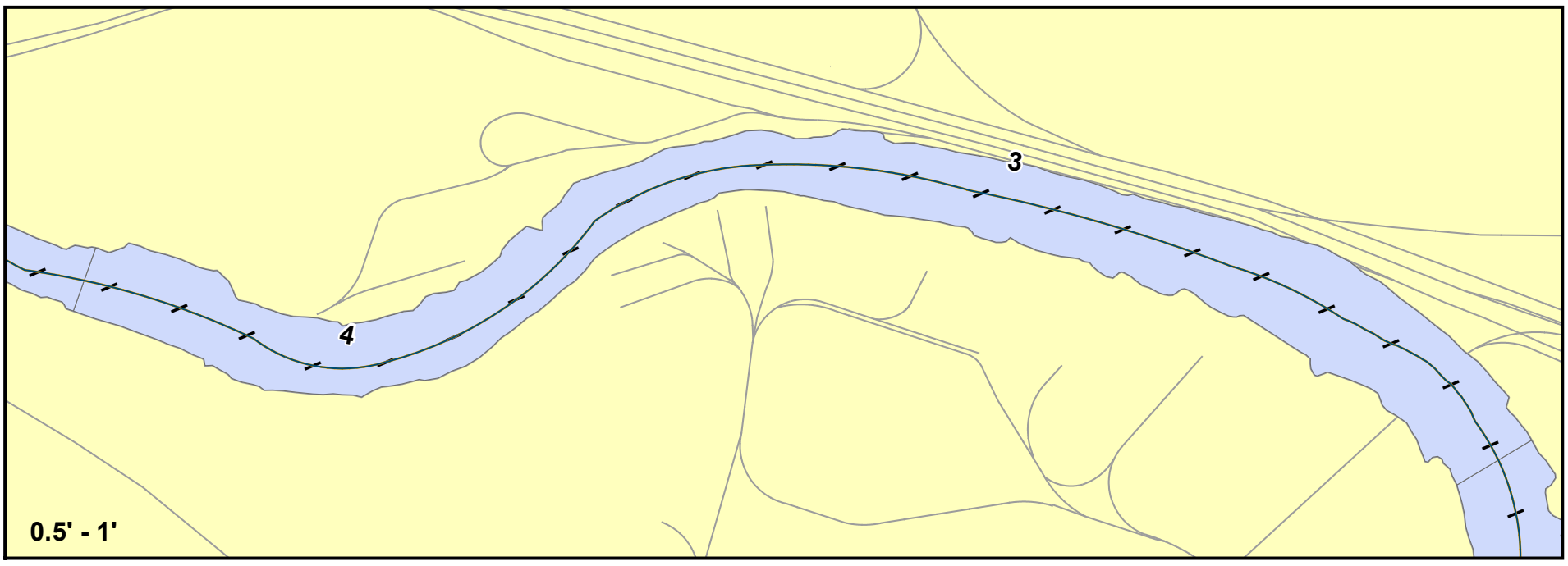

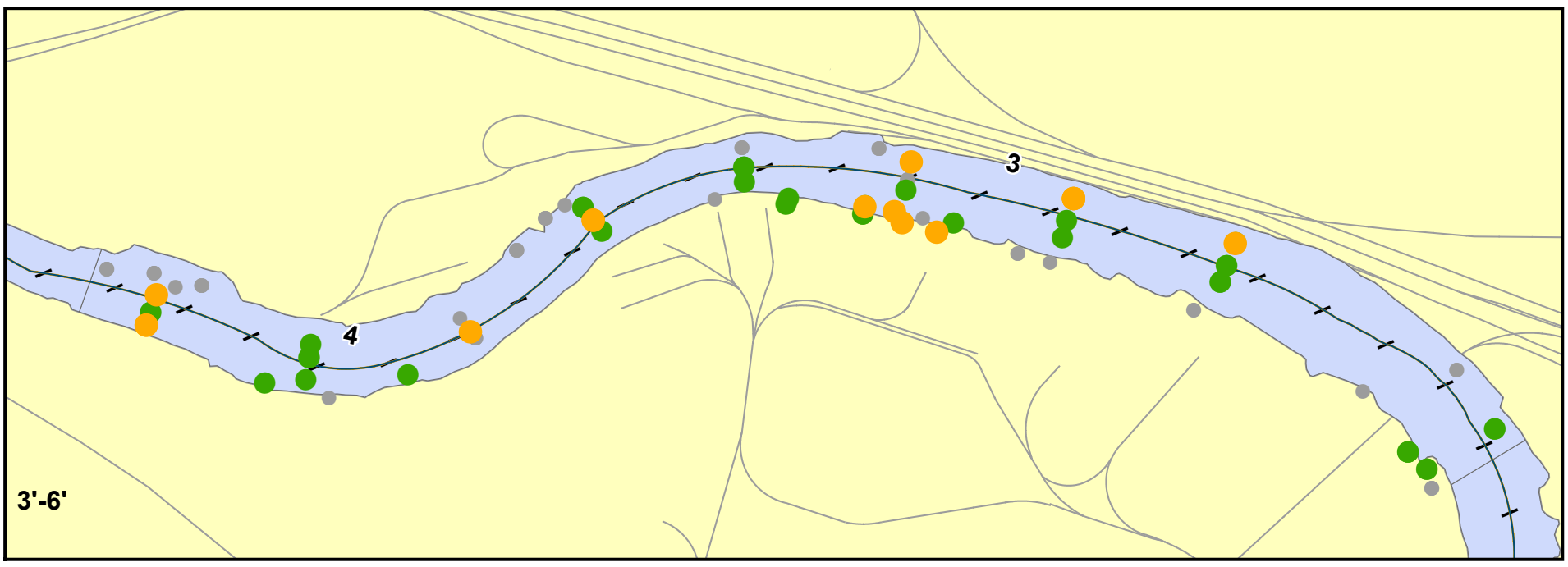

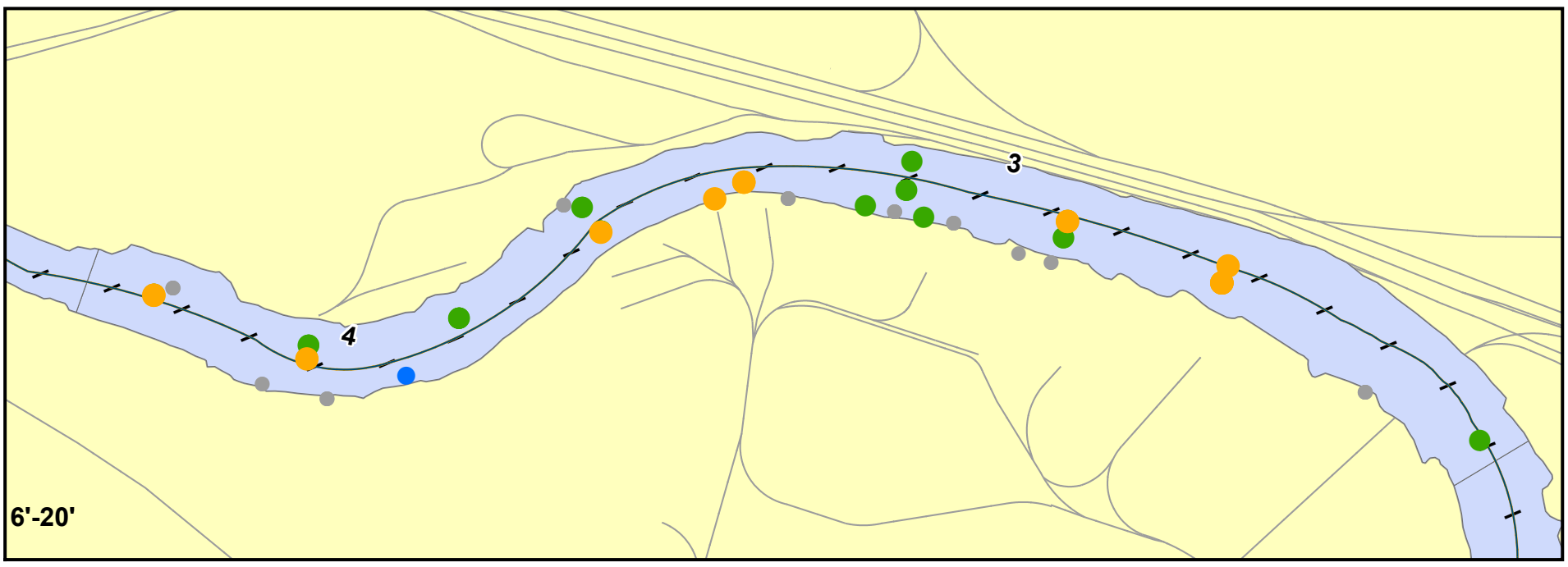

Dieldrin (PPB)

- 0 - 4
- 5 - 10
- 11 - 100
- 101 - 1,000

Miles

0 0.25 0.5 1

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-19

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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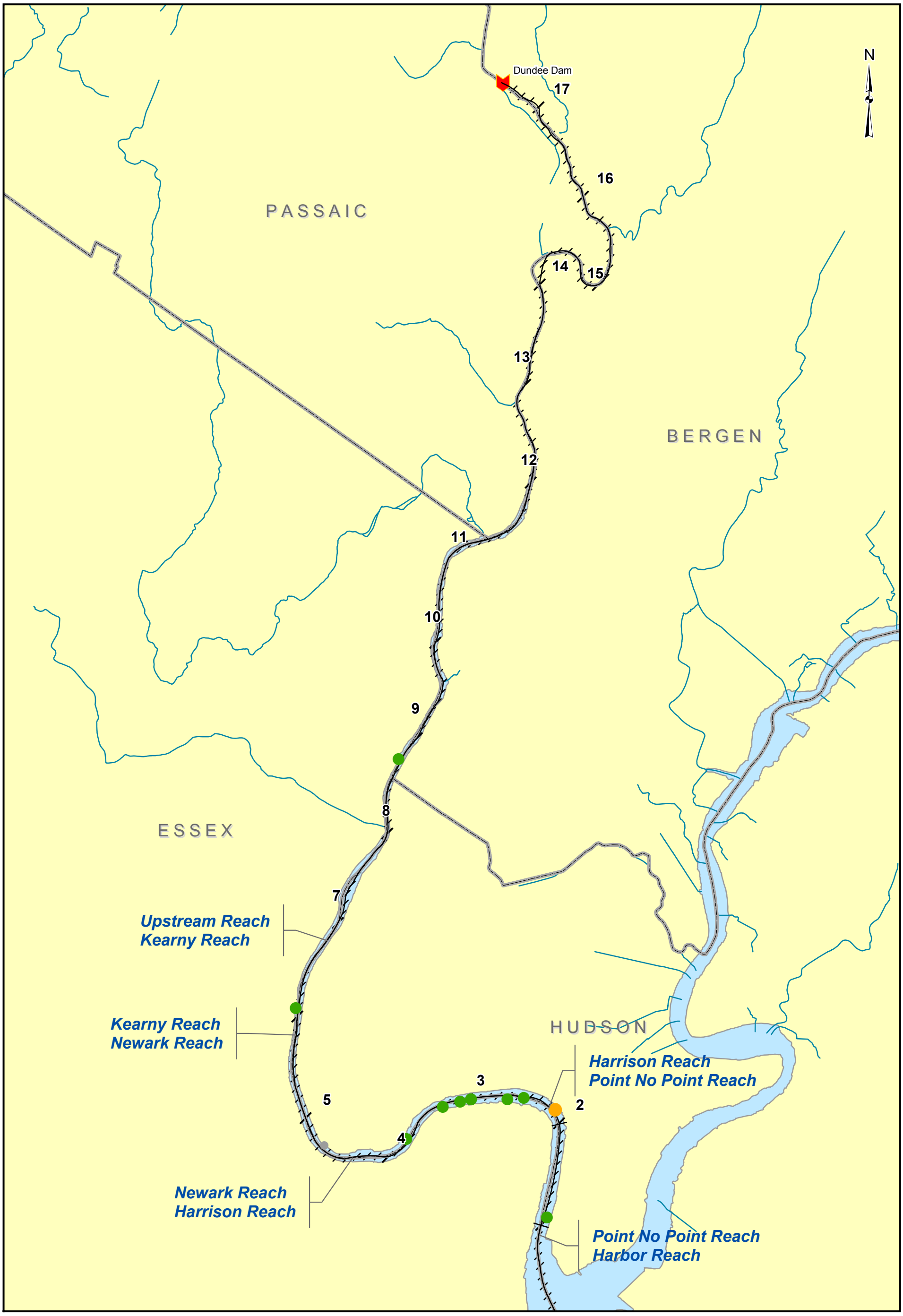

Mirex (PPB)

- 0 - 7
- 8 - 10
- 11 - 100
- 101 - 1,000

Miles
0 0.5 1 2

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-20

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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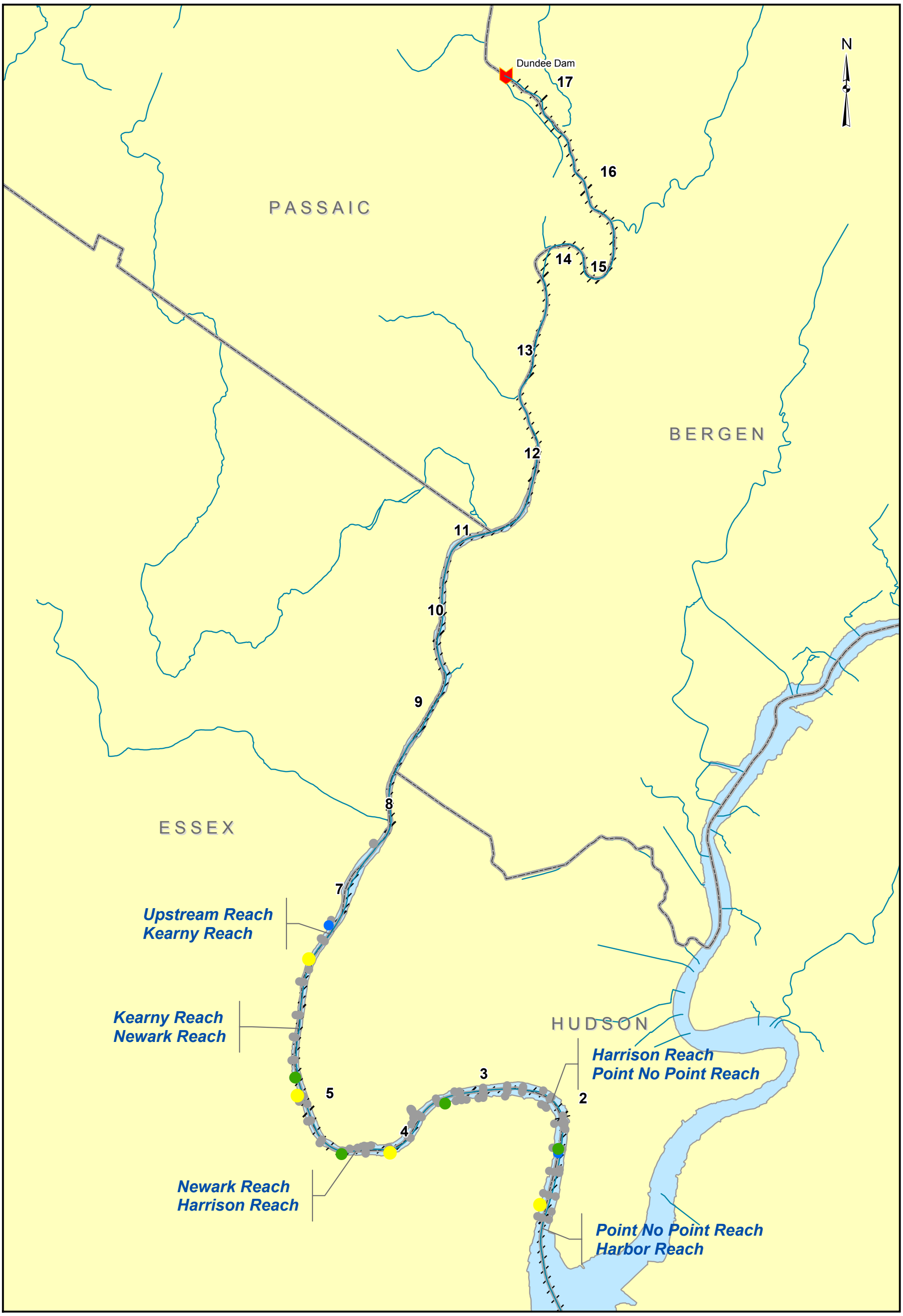

Total Xylenes (PPB)

- 0 - 10
- 11 - 25
- 26 - 100
- 101 - 440

Miles
0 0.5 1 2

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-21

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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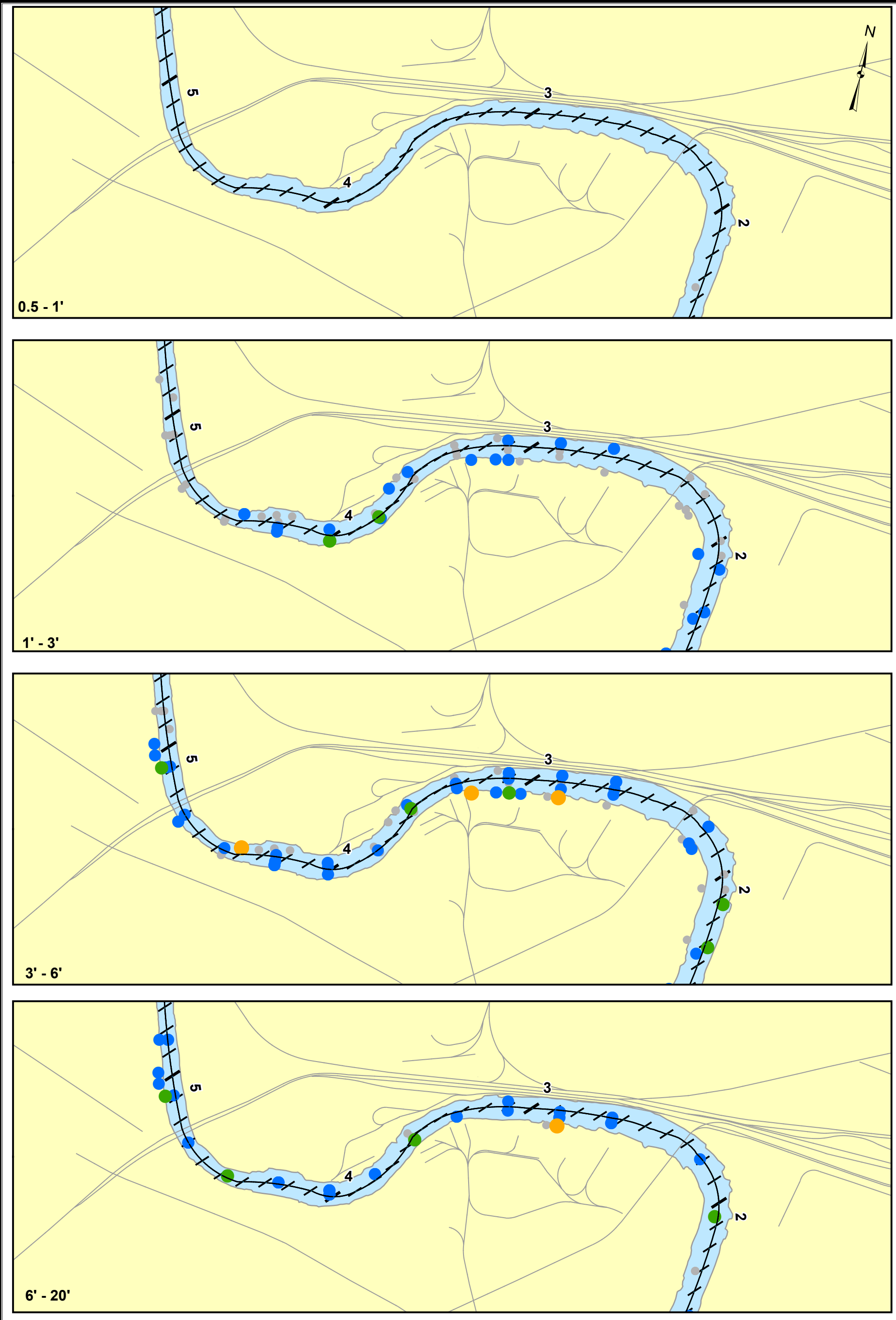

Total Xylenes (PPB)

- 0 - 25
- 26 - 433
- 434 - 4,330
- 4,331 - 44,000

Miles
0 0.25 0.5 1

Lower Passaic River Restoration Project
Subsurface Sediment
River Miles 1.5 - 5.3 Figure 3-22

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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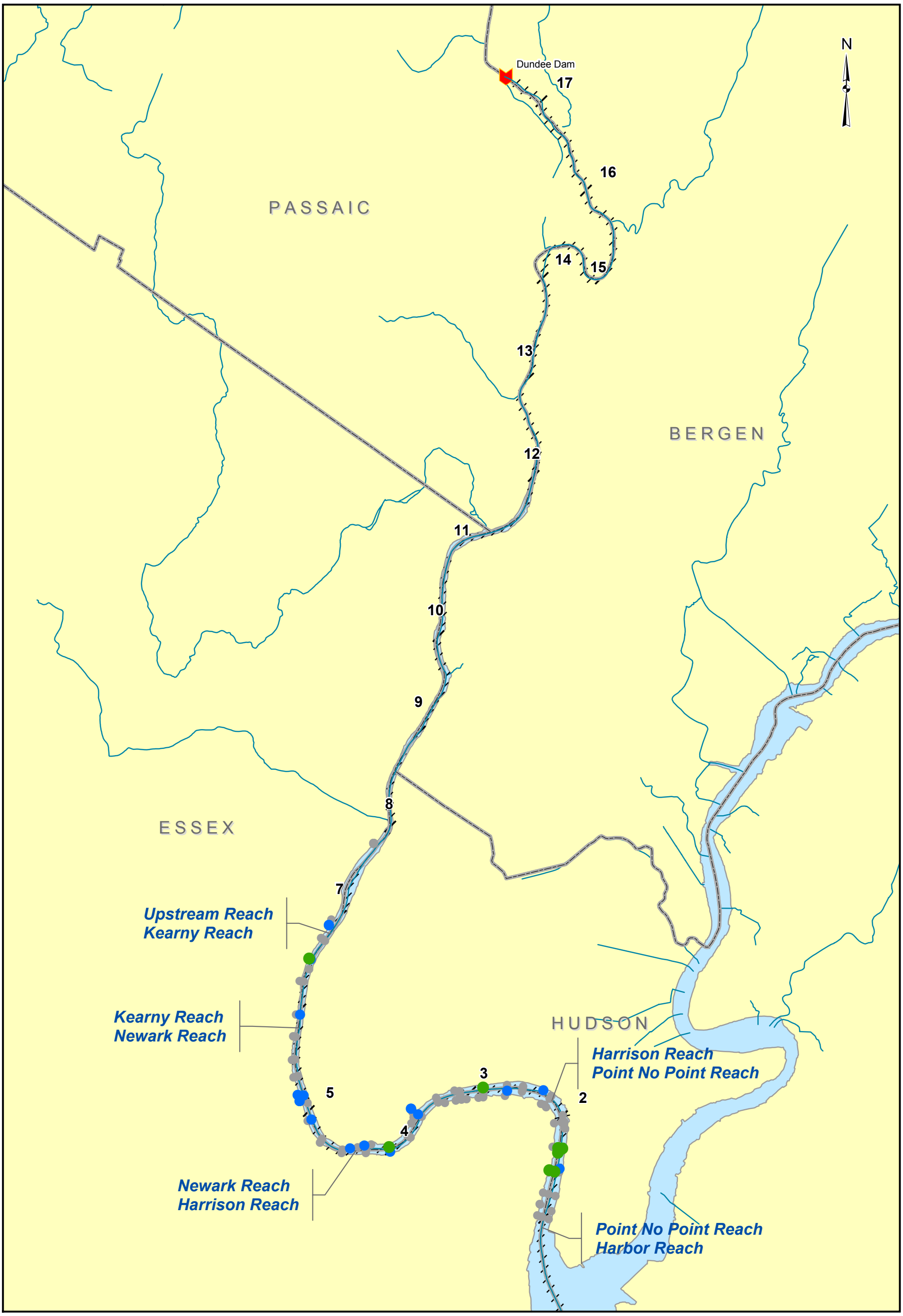

Methyl Ethyl Ketone (PPB)

- 0 - 10
- 11 - 43
- 44 - 100

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-23

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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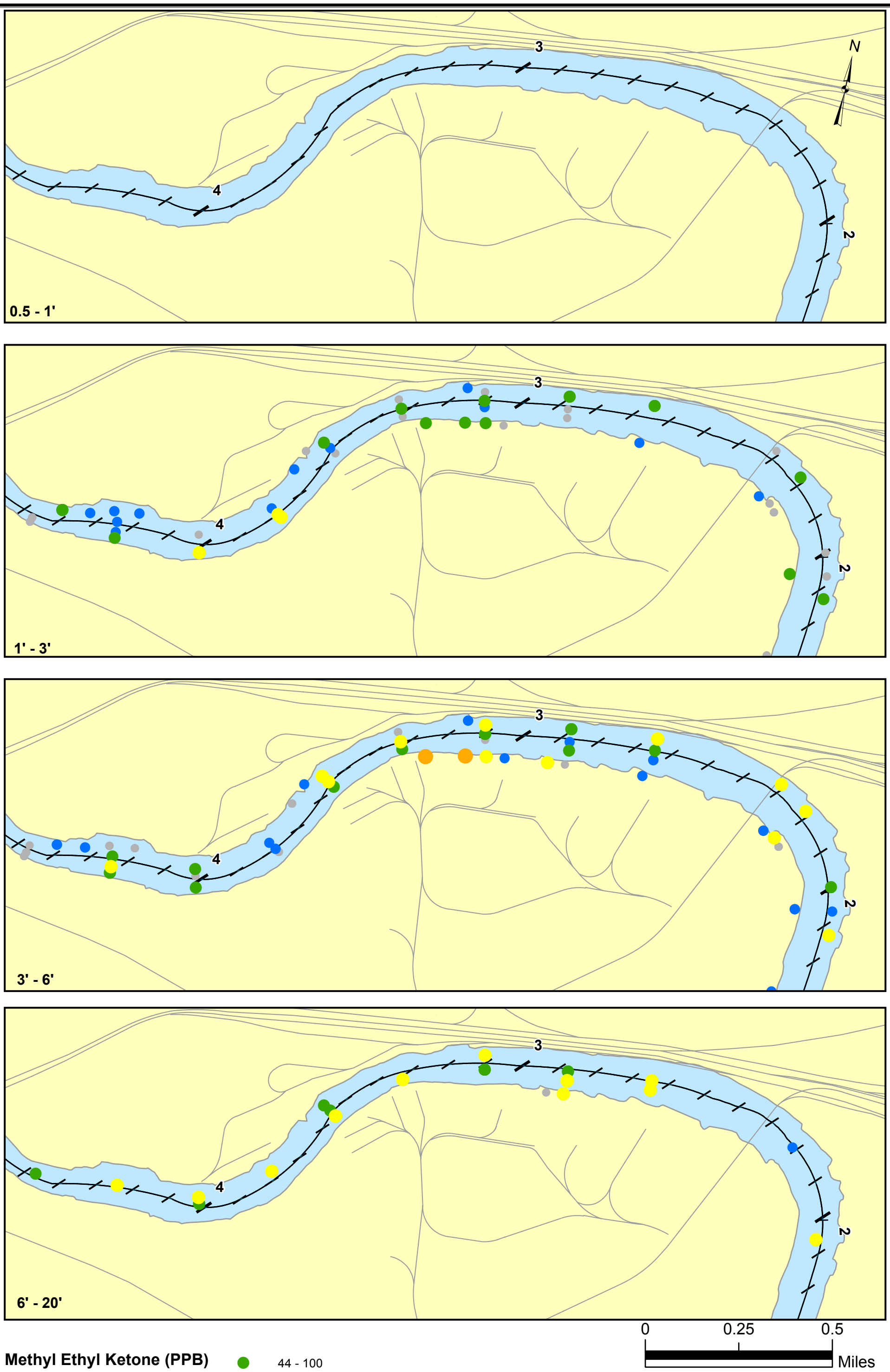

Lower Passaic River Restoration Project
Subsurface Sediment
River Miles 1.75 - 4.5 Figure 3-24

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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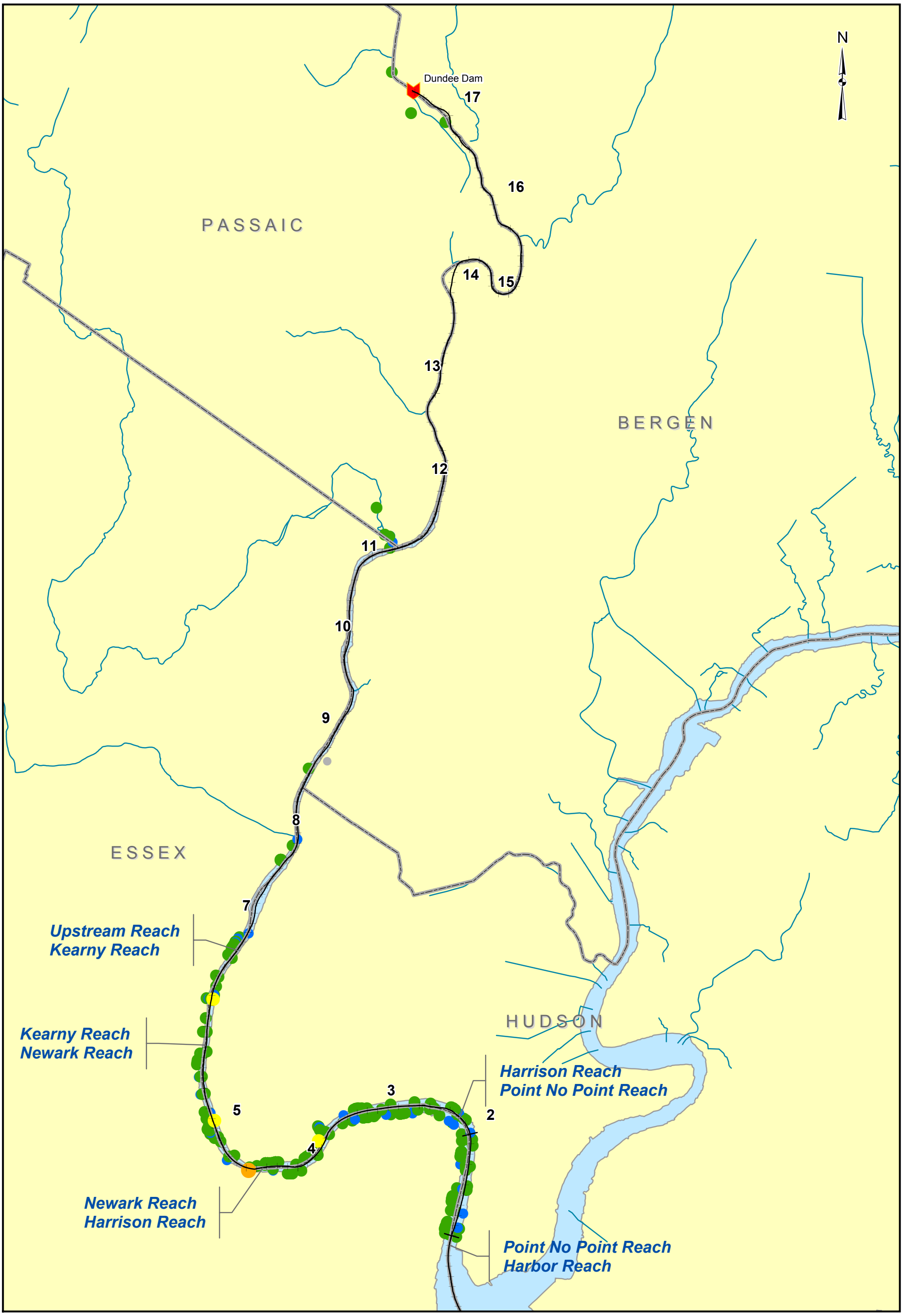

Total High Molecular Weight PAHs (PPB)

- 0 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000
- 100,000 - 1,000,000
- 1,000,000 - 10,000,000

Miles
0 0.5 1 2

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-25

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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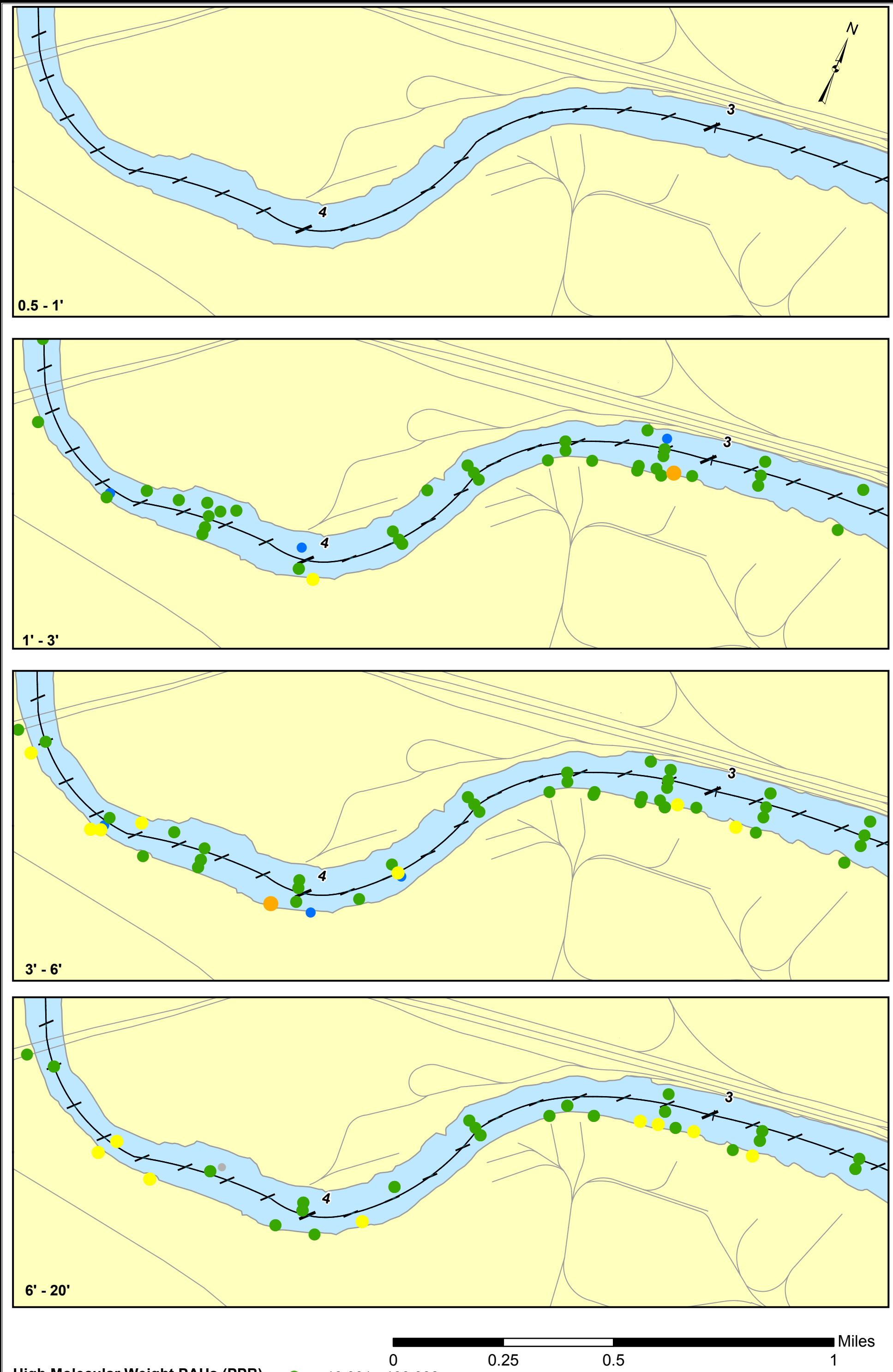

Lower Passaic River Restoration Project
Subsurface Sediment
River Miles 2.6 - 4.8 Figure 3-26

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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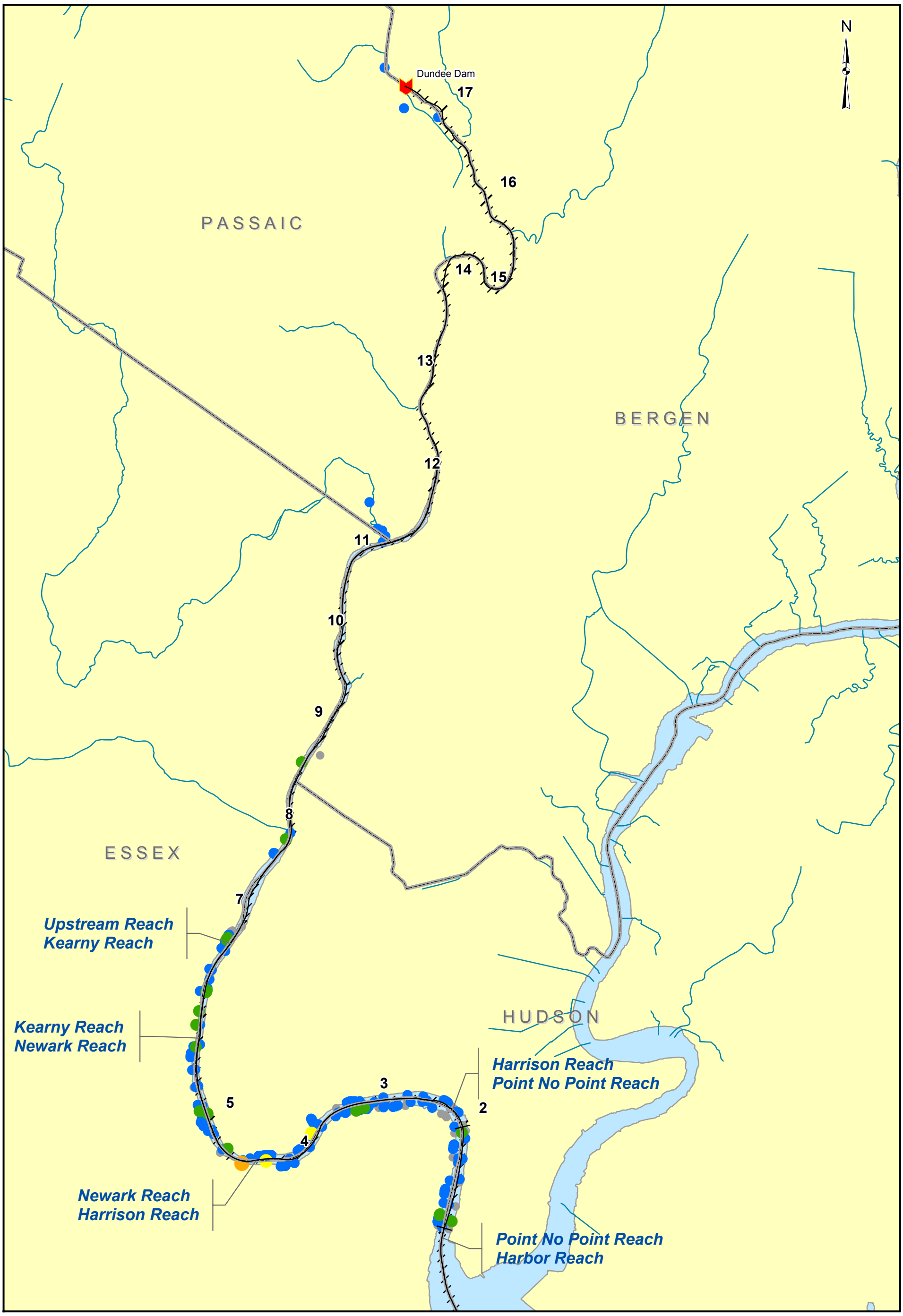

Low Molecular Weight PAHs (PPB)

- 0-1000
- 1000-10000
- 10000-100000
- 100000-1000000
- 1000000-10000000

Miles
0 0.5 1 2

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-27

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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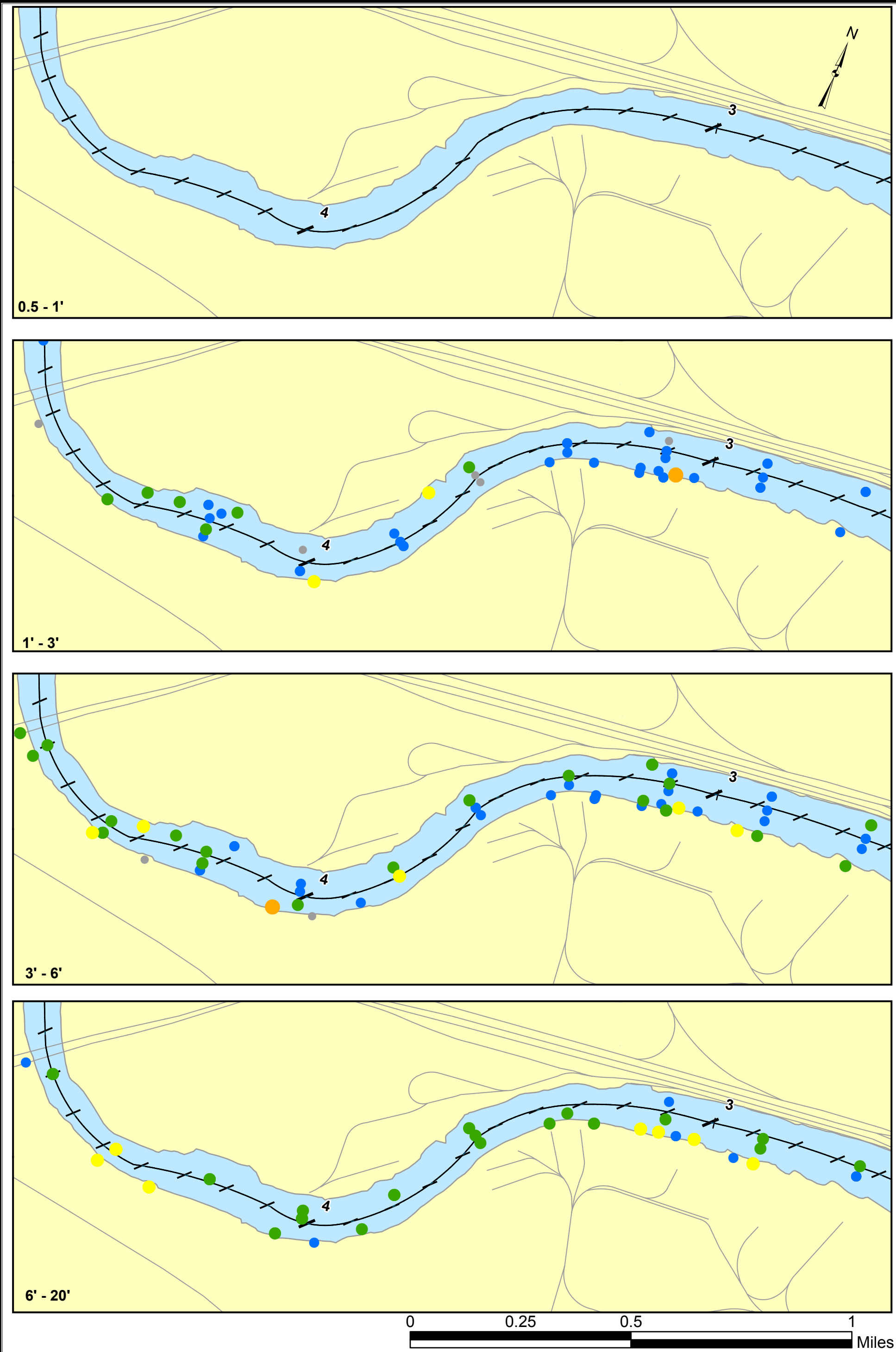

Lower Passaic River Restoration Project
Subsurface Sediment
River Miles 2.6 - 4.8 Figure 3-28

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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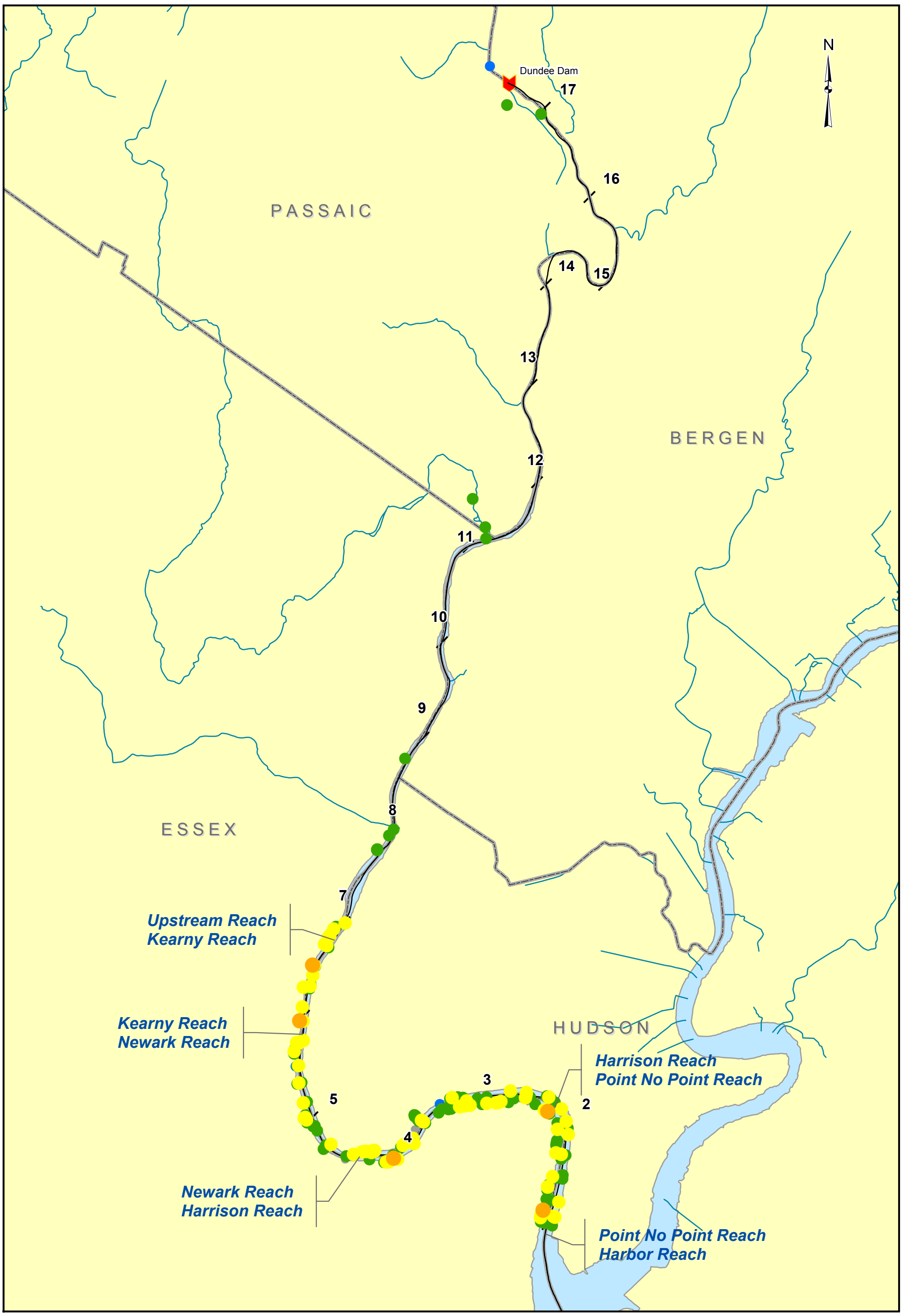

Total PCBs (PPB)

- 2 - 100
- 101 - 180
- 181 - 1,000
- 1,001 - 5,000
- 5,001 - 17,200

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-29

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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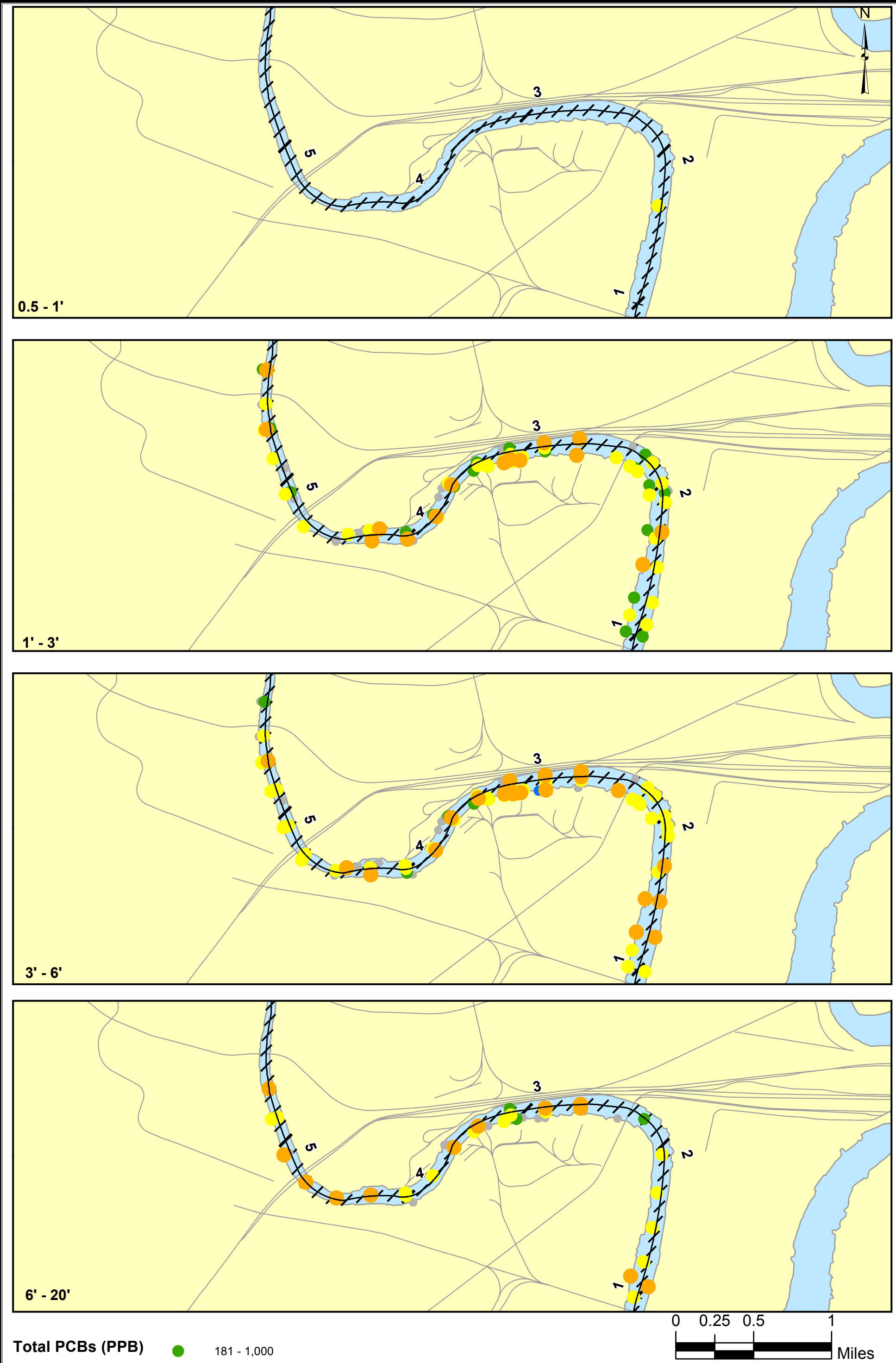

Lower Passaic River Restoration Project
Subsurface Sediment
Point No Point, Harrison, and Newark Reaches Figure 3-30

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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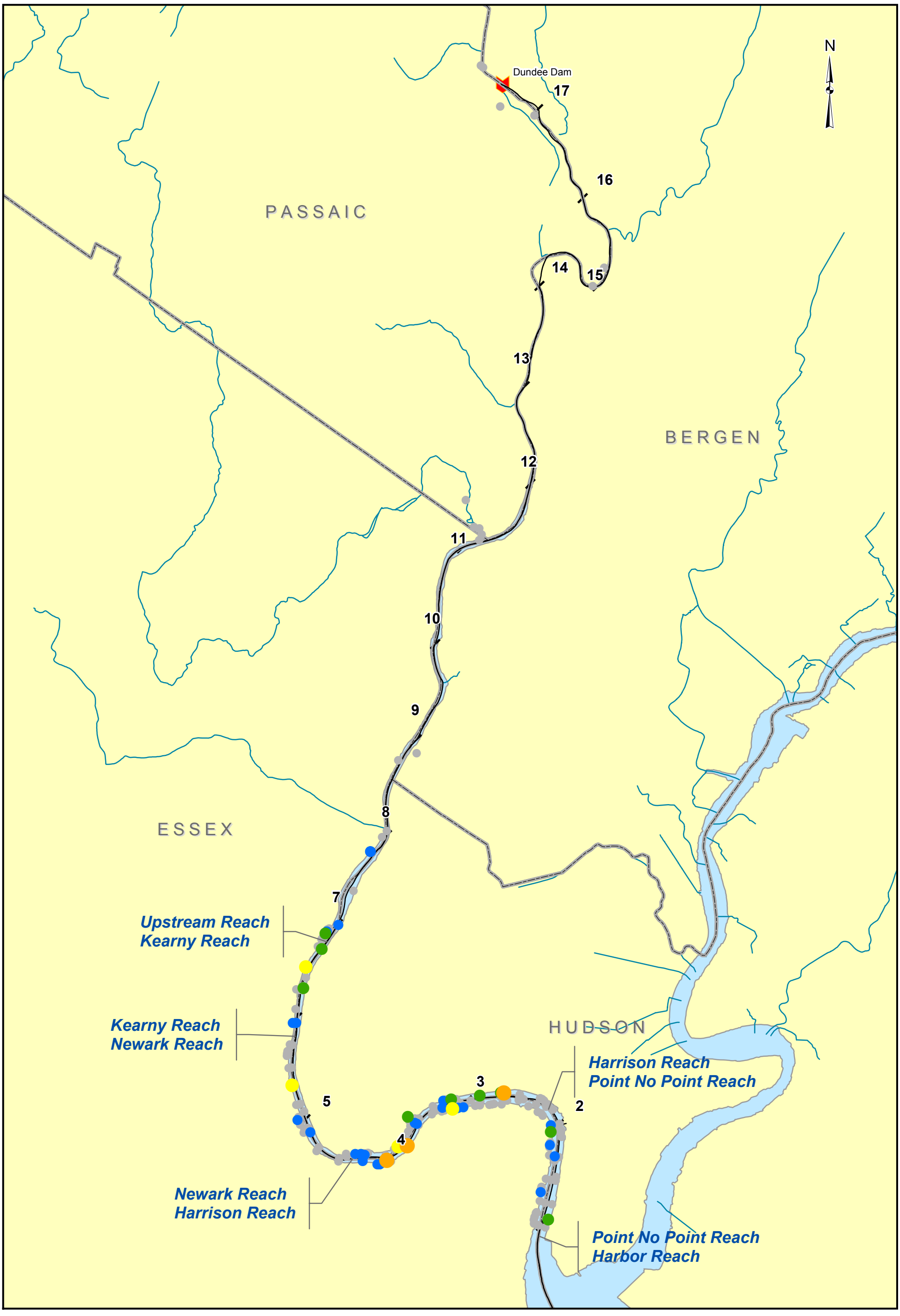

2,3,7,8-TCDD (PPB)

- 0 - 0.5
- 0.5 - 1
- 1 - 3
- 3 - 7
- 7 - 14

0 0.5 1 2 Miles

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-31

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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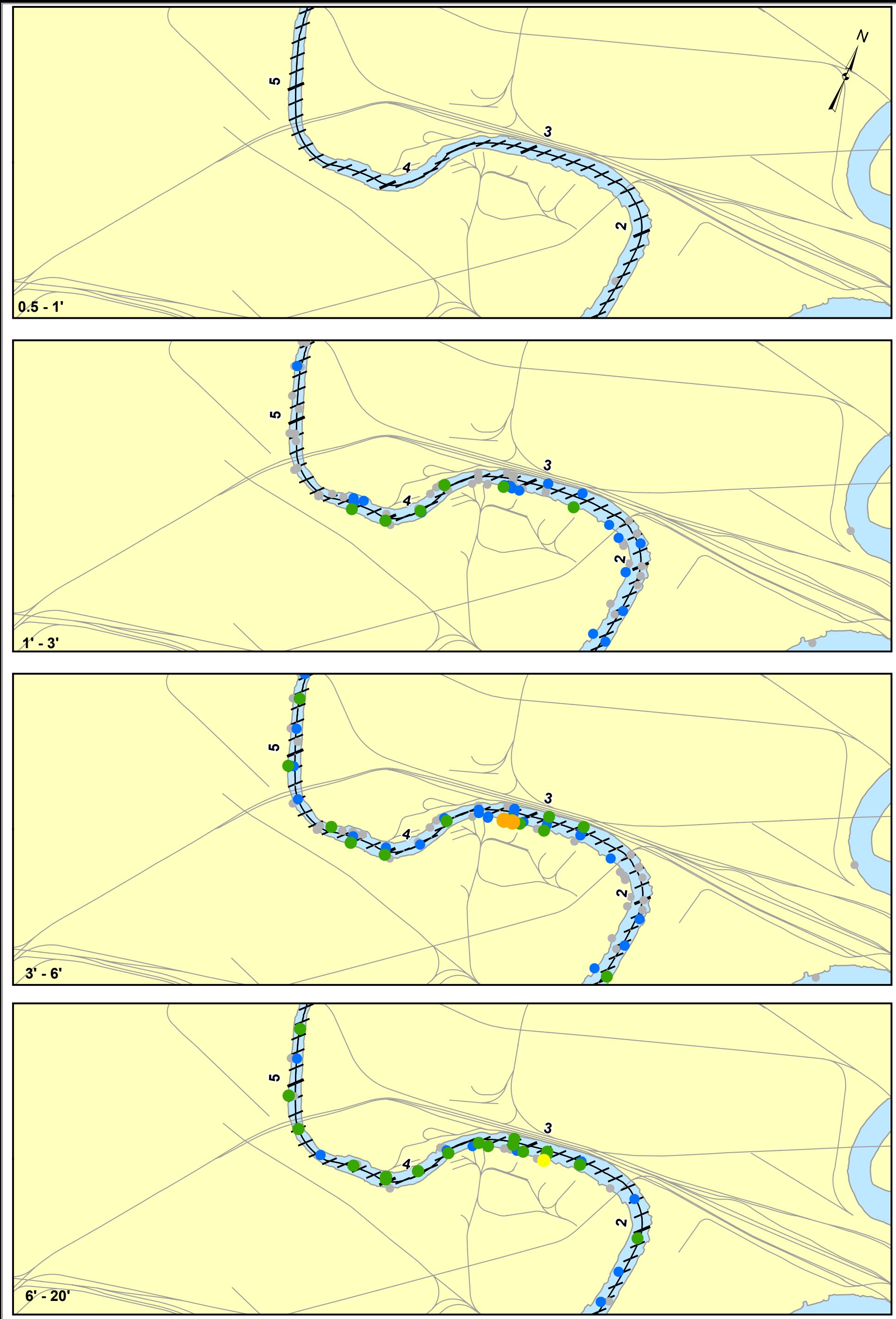

2,3,7,8-TCDD (PPB)

- 0 - 1
- 2 - 10
- 11 - 100
- 101 - 1,000
- 1,001 - 5,300

0 0.25 0.5 1 Miles

Lower Passaic River Restoration Project
Subsurface Sediment
Point No Point, Harrison, and Newark Reaches Figure 3-32

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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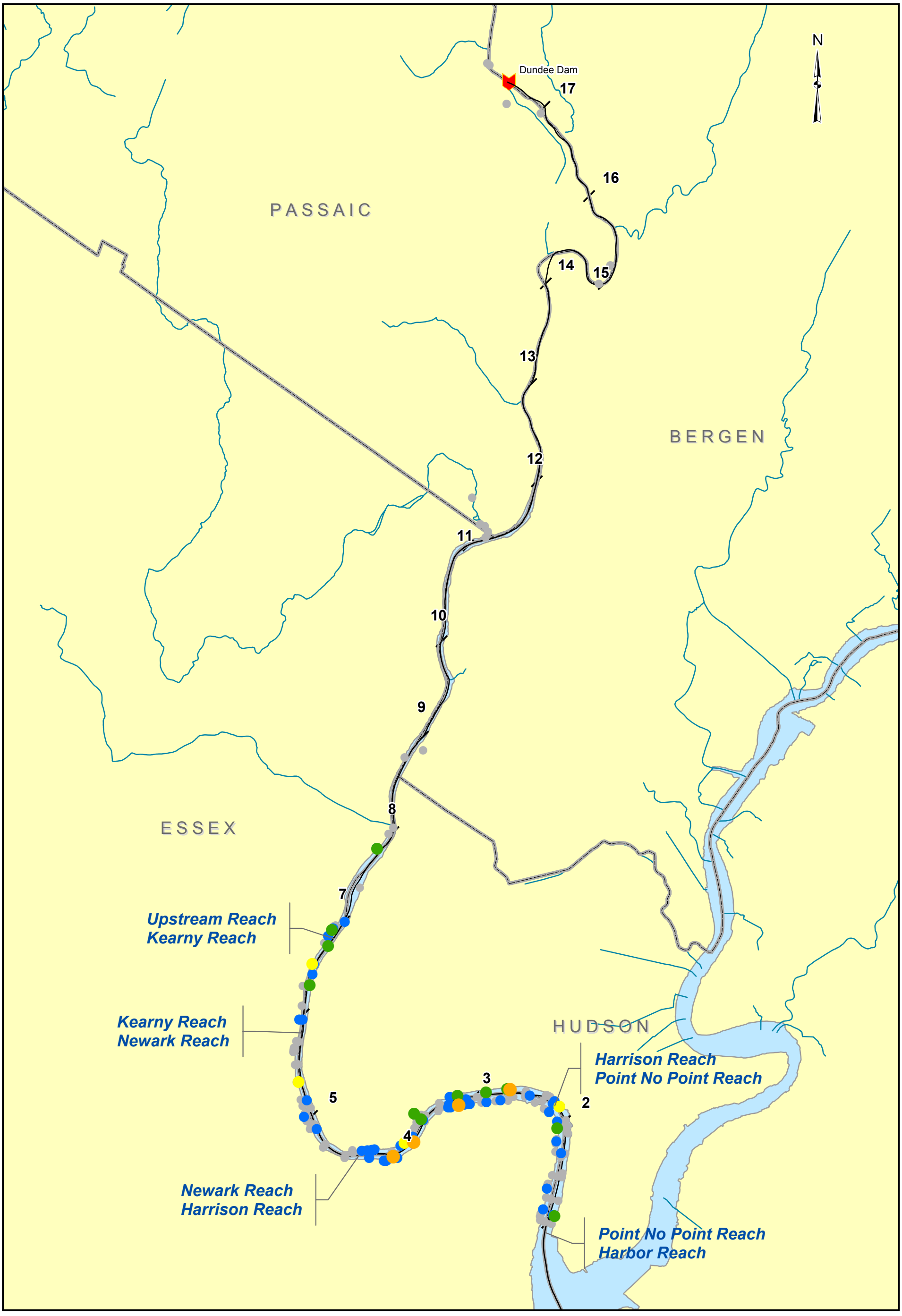

Dioxin Toxic Equivalency Quotients (PPB)

- 0.0025 - 0.5
- 0.5 - 1
- 1 - 3
- 3 - 7
- 7 - 14

Lower Passaic River Restoration Project
Surficial Sediments
Figure 3-33

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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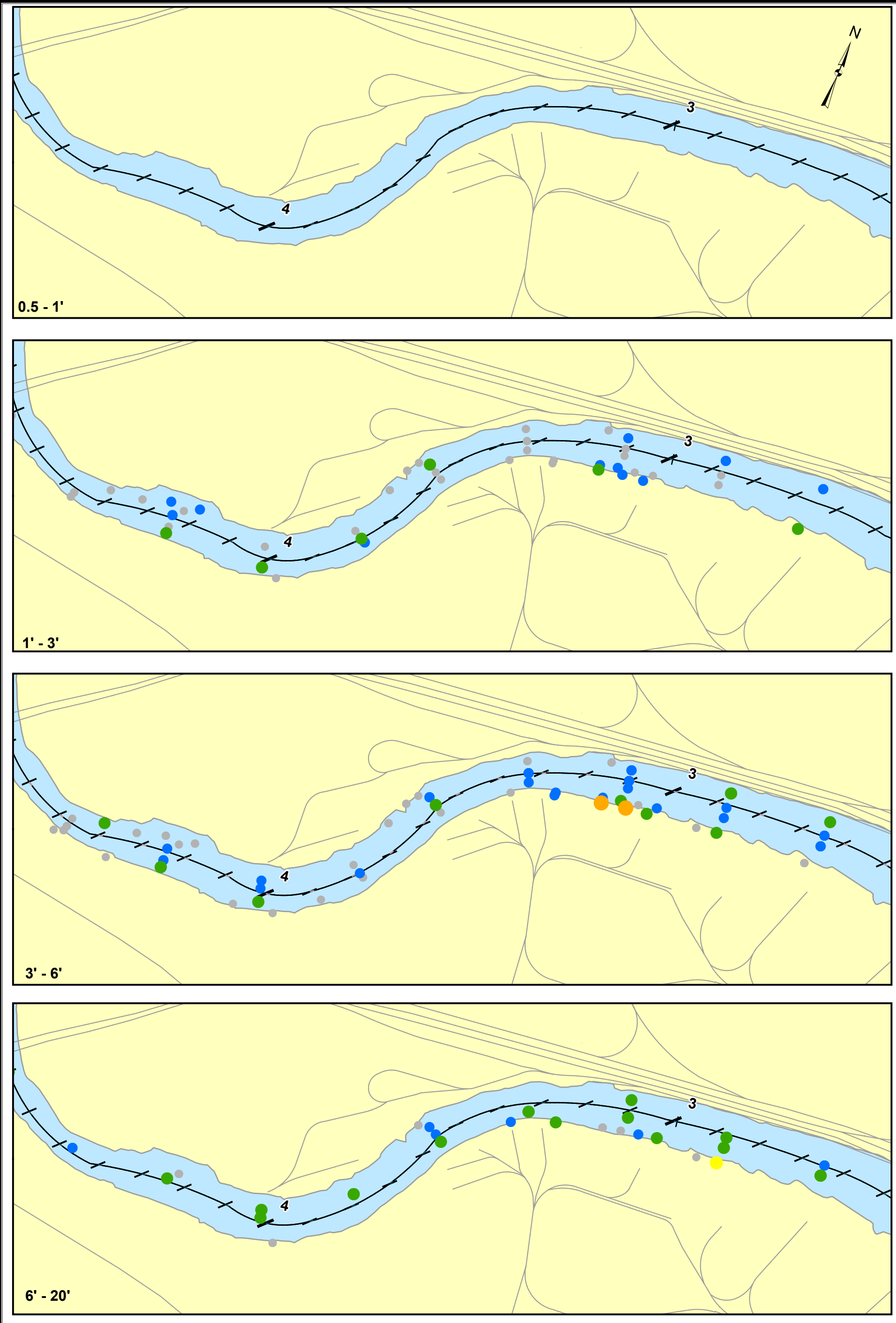

Lower Passaic River Restoration Project
Subsurface Sediment
Harrison Reach Figure 3-34

Map Document: (S:\Projects\0285924\MapDocuments\0285924-CERCLA\MXD\HistoricalDataEvaluation\Surface_Metals_Arsenic.mxd)
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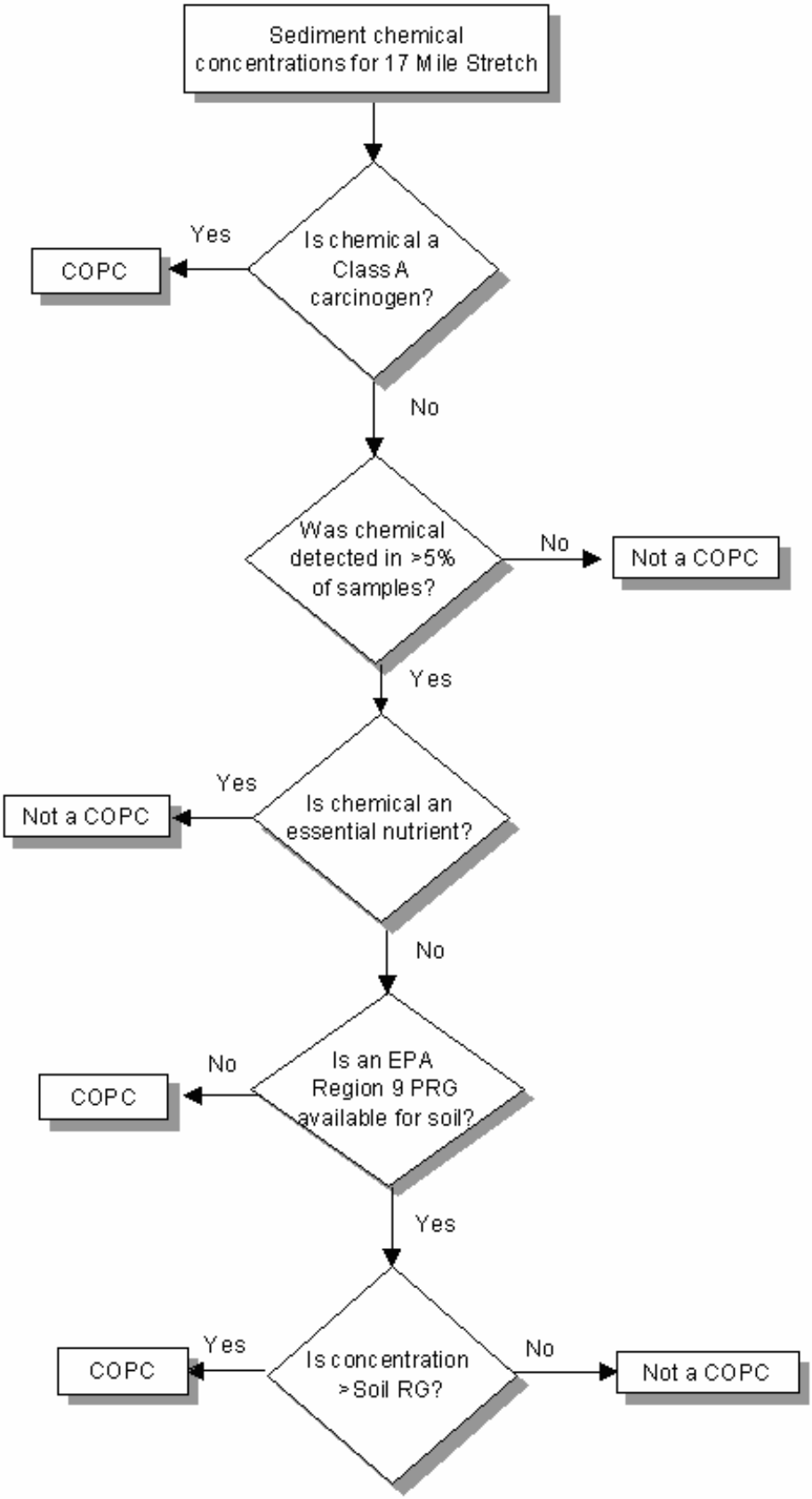

Figure 5-1
Lower Passaic River Restoration Project
Sediment COPC Decision Diagram for Passaic River Human Health Risk Assessment

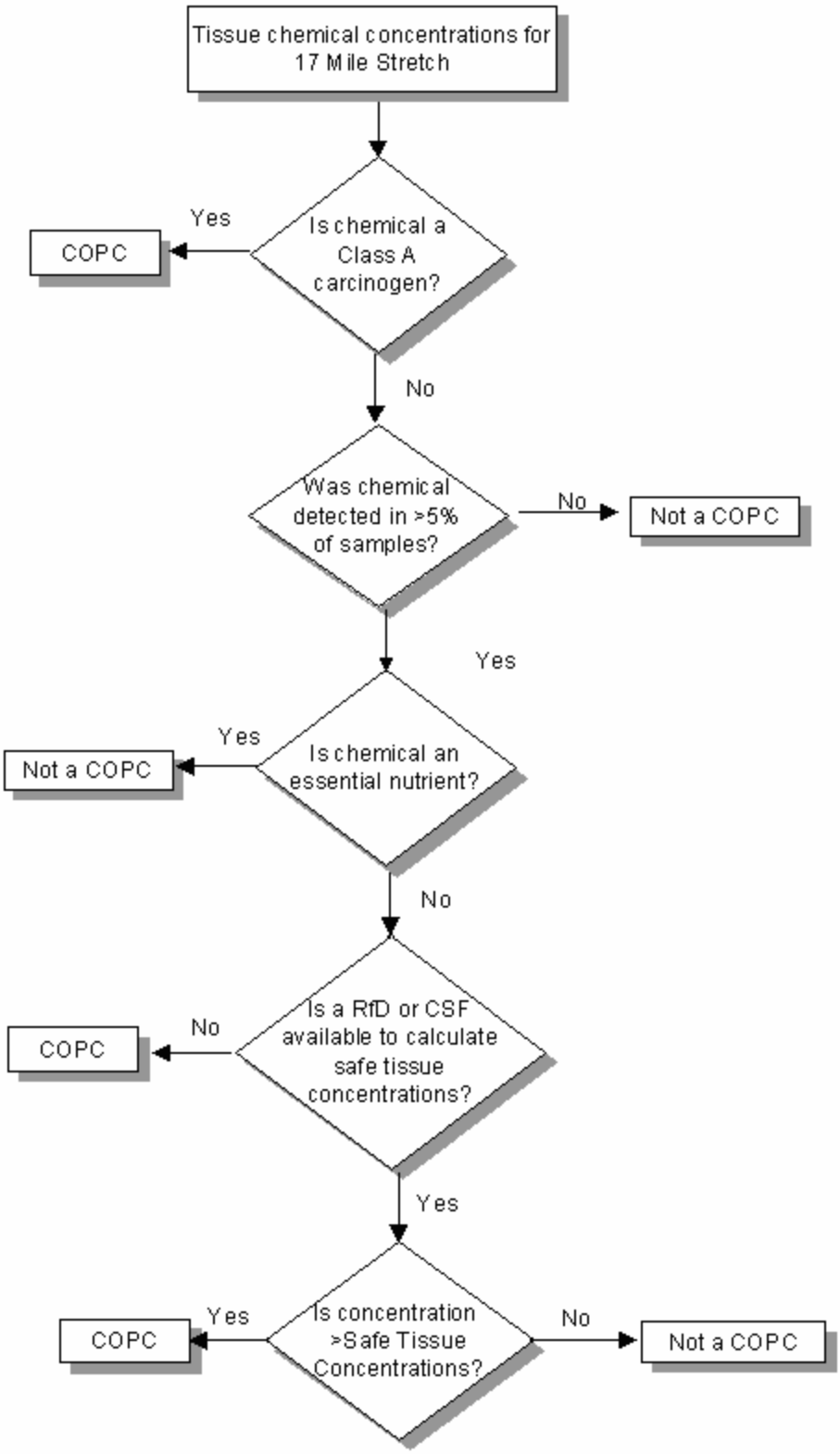

Figure 5-2
Lower Passaic River Restoration Project
Tissue COPC Decision Diagram for Passaic River Human Health Risk Assessment

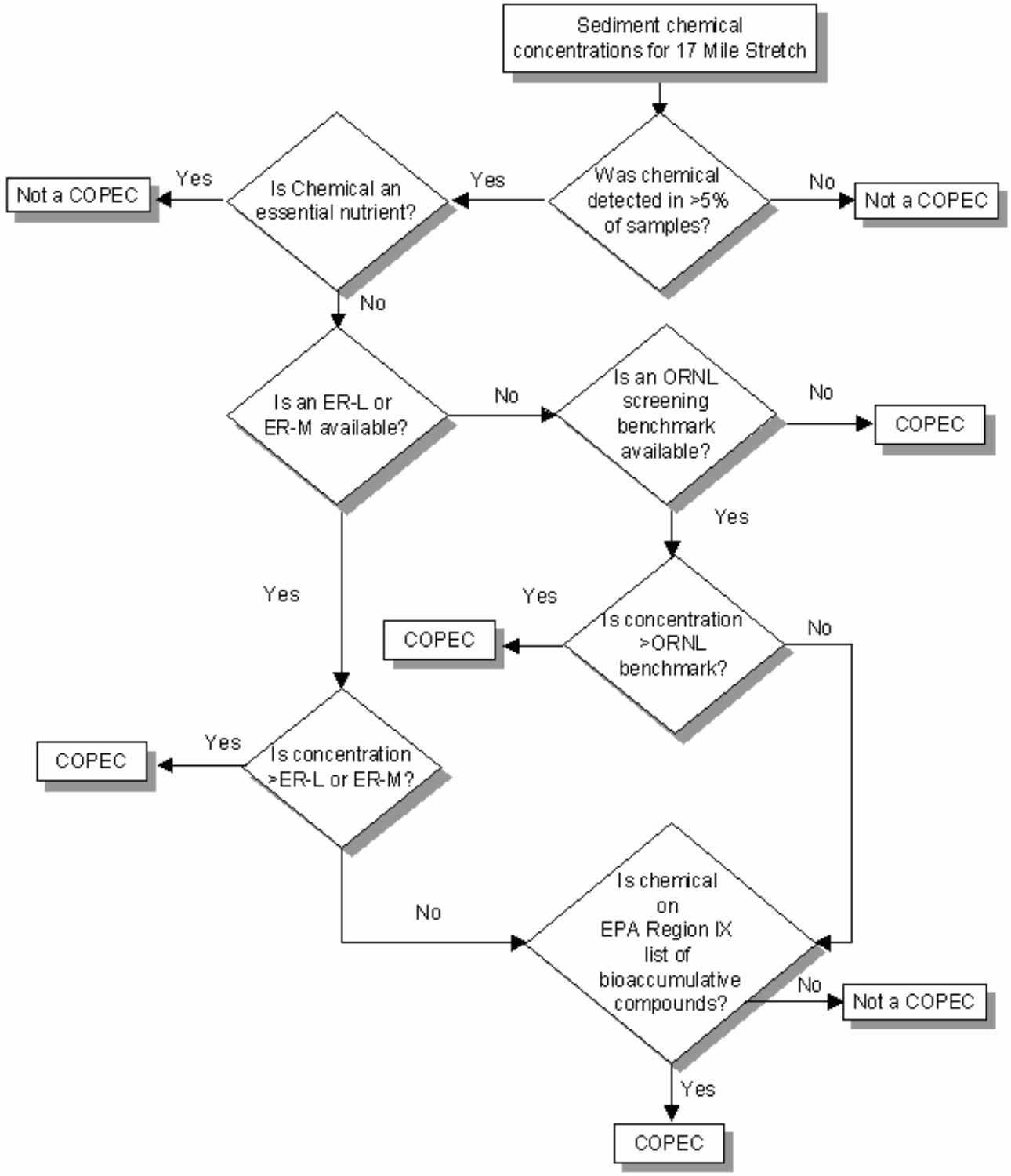

Figure 5-3
Lower Passaic River Restoration Project
Sediment COPC Decision Diagram for the Passaic River Ecological Risk Assessment

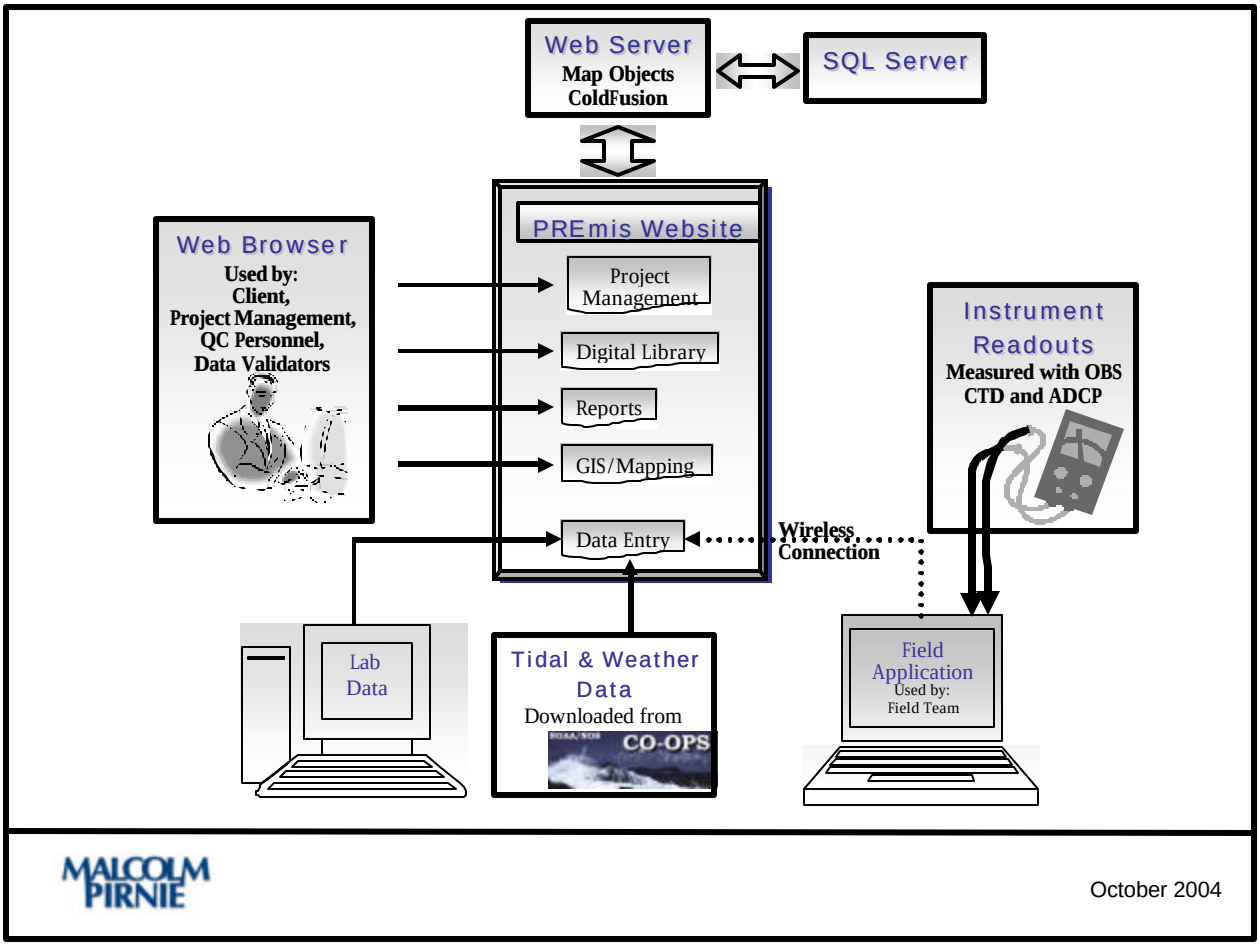

Figure 6-1
Lower Passaic River Restoration Project
Data Presentation Flow Chart