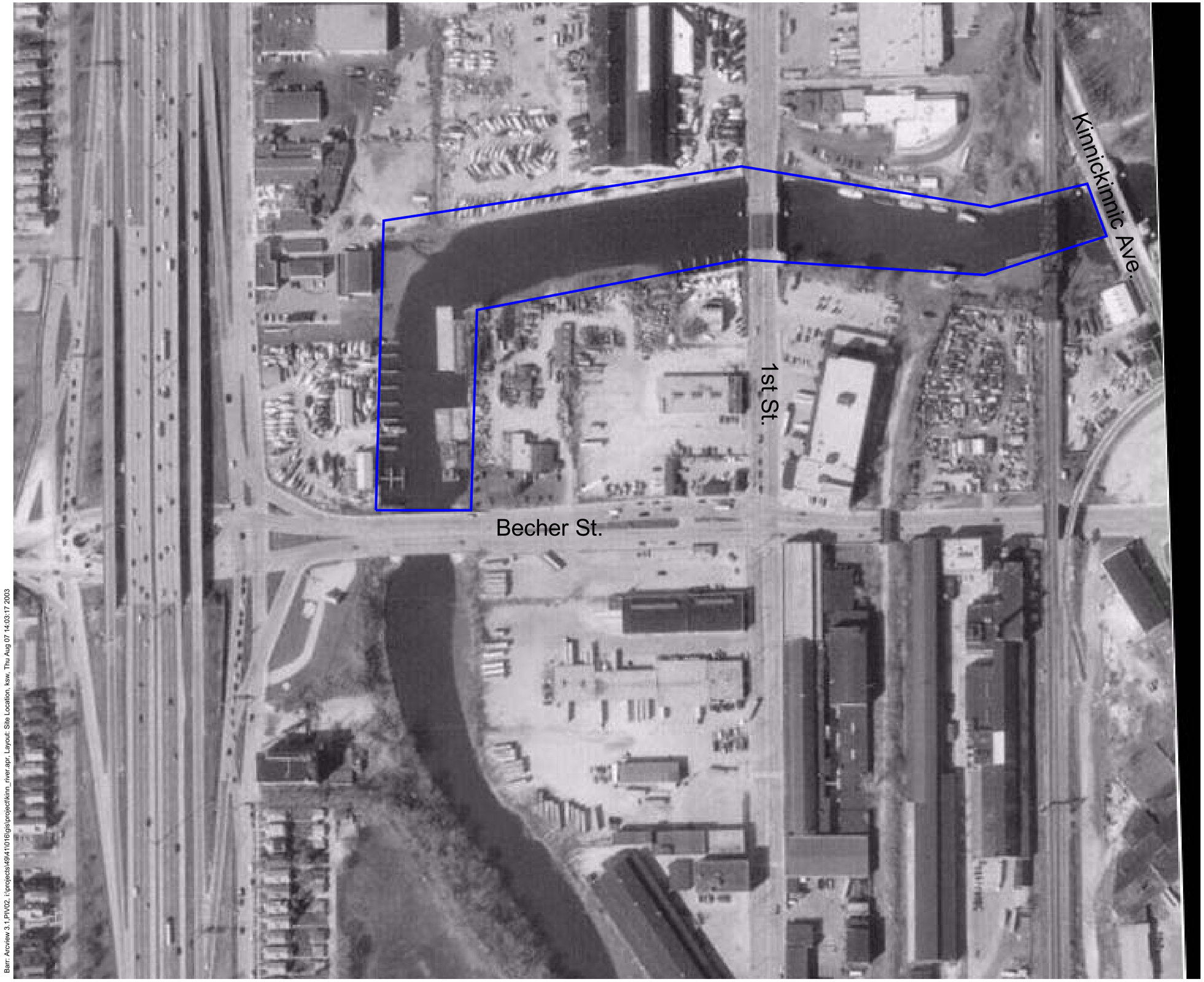
Figures



Remediation Area

N

200 0 200 Feet

Figure 1
Site Location
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for:
USACE
DETROIT DISTRICT

Prepared by:
BARR
MINNEAPOLIS, MINNESOTA
HIBBING, MINNESOTA
DULUTH, MINNESOTA
ANN ARBOR, MICHIGAN
JEFFERSON CITY, MISSOURI

Barr: Arcview 3.1,PIV02, i:\projects\49\41\016\gis\project\kinn_river.apr, Layout: Site Location, ksw, Thu Aug 07 14:03:17 2003

2002 Boring Locations

Section Locations

- Section 1
- Section 2
- Section 3

N

150 0 150 Feet

Figure 2
Section and Sampling Locations
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for:
USACE
DETROIT DISTRICT

Prepared by:
BARR
MINNEAPOLIS, MINNESOTA
HIBBING, MINNESOTA
DULUTH, MINNESOTA
ANN ARBOR, MICHIGAN
JEFFERSON CITY, MISSOURI

Barr: Arcview 3.1,PIV02, i:\projects\49\41016\gis\project\kinn_river.apr, Layout: Section and Sampling Locations - logos, ksw, Thu Aug 07 14:07:45 2003

2002 Sampling Locations

N

60 0 60 Feet

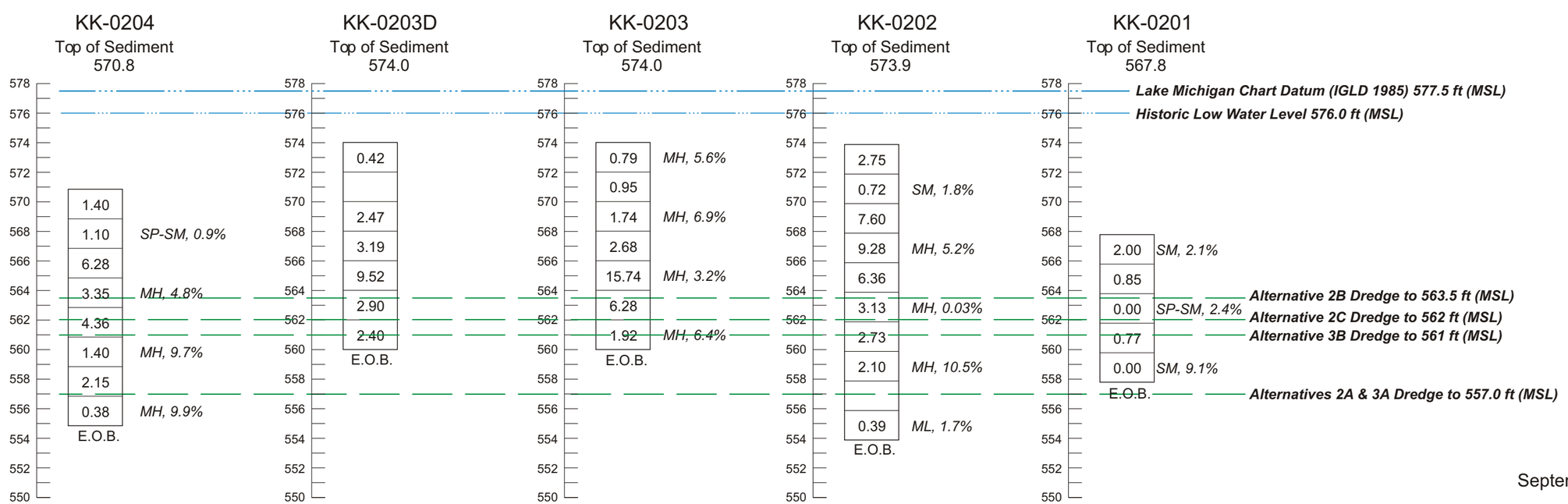


Figure 3

Section 1
September 2002 PCB Sediment Profile
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for:
USACE
Detroit District

Prepared by:
BARR
Minneapolis, Minnesota
Hibbing, Minnesota
Duluth, Minnesota
Ann Arbor, Michigan
Jefferson City, Missouri

SOURCE: USACE & WDNR. April 7, 2004. Kinnickinnic River, Wisconsin - Milwaukee Estuary of Concern - Deepening/Remediation Concept Design Documentation Report.

NOTE: Dredging lines and soil boring logs are for illustration purposes only. The actual dredging elevation will be determined in the final design. Contaminant concentrations and lithology will vary across the project area.

P:\49\41\016\Graphics\2002PCBaFigures3.CDR RLG 04-06-04
Barr: Arcview 3.1, P:/02, /:/projects/49\41\016\gis\projects\kin_river\apr_layout:Section 1 PCB.avw, Thu Aug 07 15:05:19 2003

2002 Sampling Locations

N

60 0 60 Feet

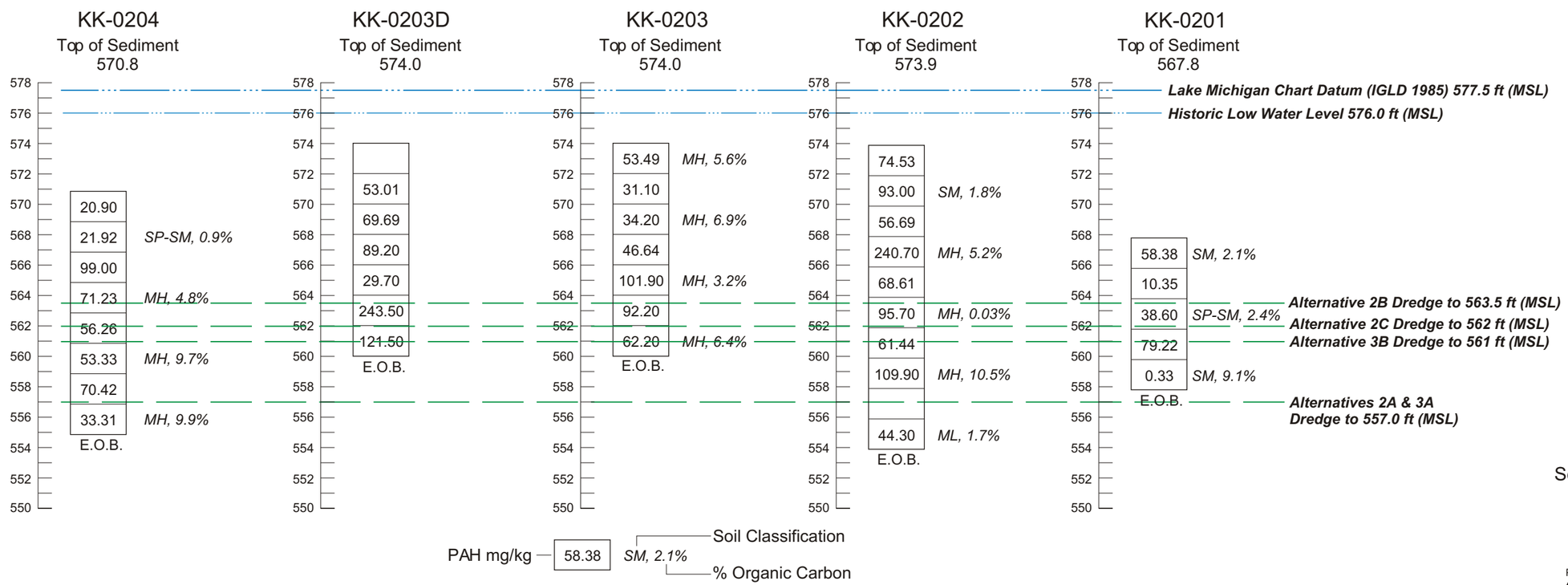


Figure 4

Section 1
September 2002 PAH Sediment Profile
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for:
USACE
Detroit District

Prepared by:
BARR
Minneapolis, Minnesota
Hibbing, Minnesota
Duluth, Minnesota
Ann Arbor, Michigan
Jefferson City, Missouri

SOURCE: USACE & WDNR. April 7, 2004. Kinnickinnic River, Wisconsin - Milwaukee Estuary of Concern - Deepening/Remediation Concept Design Documentation Report.

NOTE: Dredging lines and soil boring logs are for illustration purposes only. The actual dredging elevation will be determined in the final design. Contaminant concentrations and lithology will vary across the project area.

P:\49411\016\Graphics\2002PAHsFigure4.CDR RLG 04-06-04
Barr: Arcview 3.1, PM22, T:\projects\49411\016\gis\projects\ka_river\apr, Layout: Section 1 PAH, ksw, Thu Aug 07 14:56:23 2003

2002 Sampling Locations

N

80 0 80 Feet

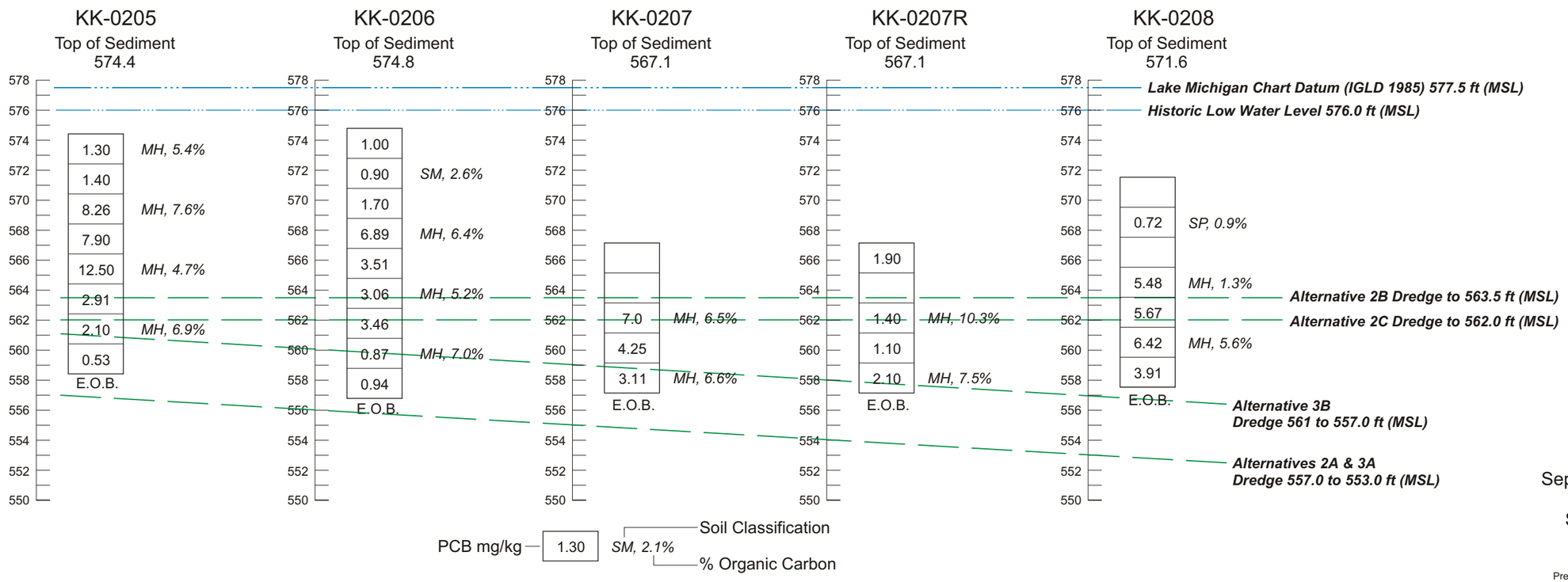


Figure 5

Section 2
September 2002 PCB Sediment Profile
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for:
USACE
Detroit District

Prepared by:
BARR
Minneapolis, Minnesota
Hibbing, Minnesota
Duluth, Minnesota
Ann Arbor, Michigan
Jefferson City, Missouri

SOURCE: USACE & WDNR. April 7, 2004. Kinnickinnic River, Wisconsin - Milwaukee Estuary of Concern - Deepening/Remediation Concept Design Documentation Report.

NOTE: Dredging lines and soil boring logs are for illustration purposes only. The actual dredging elevation will be determined in the final design. Contaminant concentrations and lithology will vary across the project area.

P:\49\41016\Graphics\2002PCBbFigure5.CDR RLG 04-06-04
Barr: Arcview 3.1, PM02, i:\projects\49\41016\gis\project\kinn_river.apr, Layout: Section 2 PCB, ksw, Thu Aug 07 14:42:06 2003

2002 Sampling Locations

N

80 0 80 Feet

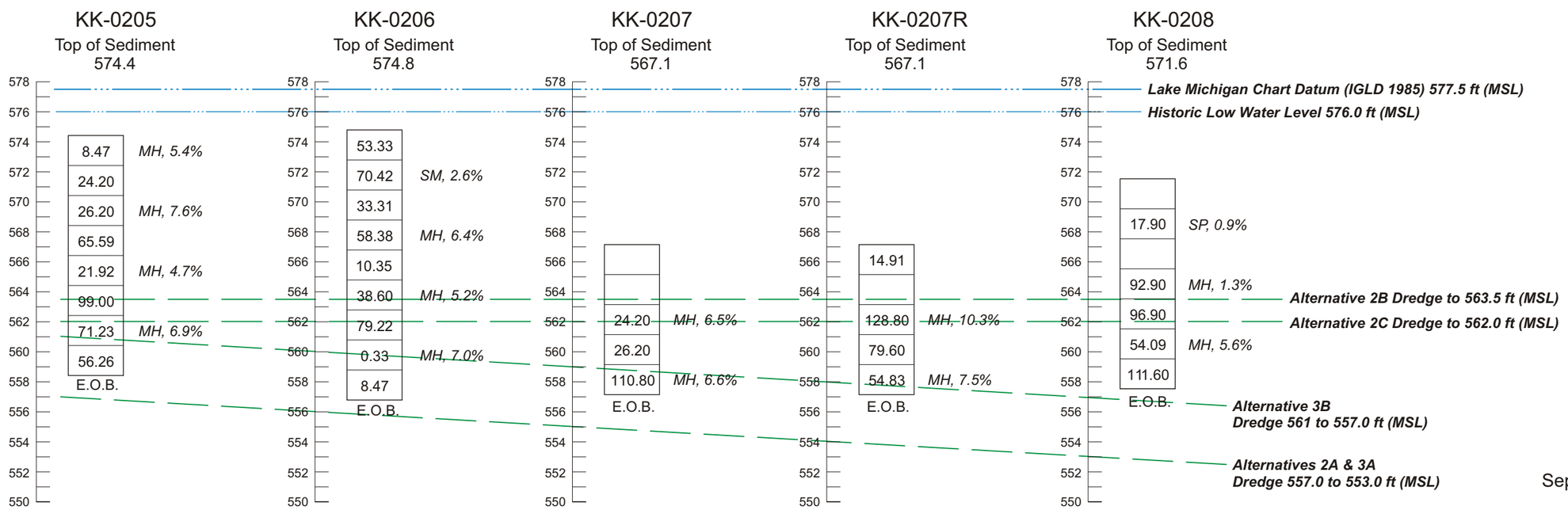


Figure 6

Section 2
September 2002 PAH Sediment Profile
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for:
USACE
Detroit District

Prepared by:
BARR
Minneapolis, Minnesota
Hibbing, Minnesota
Duluth, Minnesota
Ann Arbor, Michigan
Jefferson City, Missouri

SOURCE: USACE & WDNR. April 7, 2004. Kinnickinnic River, Wisconsin - Milwaukee Estuary of Concern - Deepening/Remediation Concept Design Documentation Report.

NOTE: Dredging lines and soil boring logs are for illustration purposes only. The actual dredging elevation will be determined in the final design. Contaminant concentrations and lithology will vary across the project area.

P:\49\41016\Graphics\2002PAHb\Figure6.CDR RLG 04-06-04
Barr: Arcview 3.1, OPT2659, I:\Projects\49\41016\Gis\Project\kinn_river.apr, Layout: Section 2 PAH, ksw, Wed Jan 28 12:03:28 2004

2002 Sampling Locations

N

100 0 100 Feet

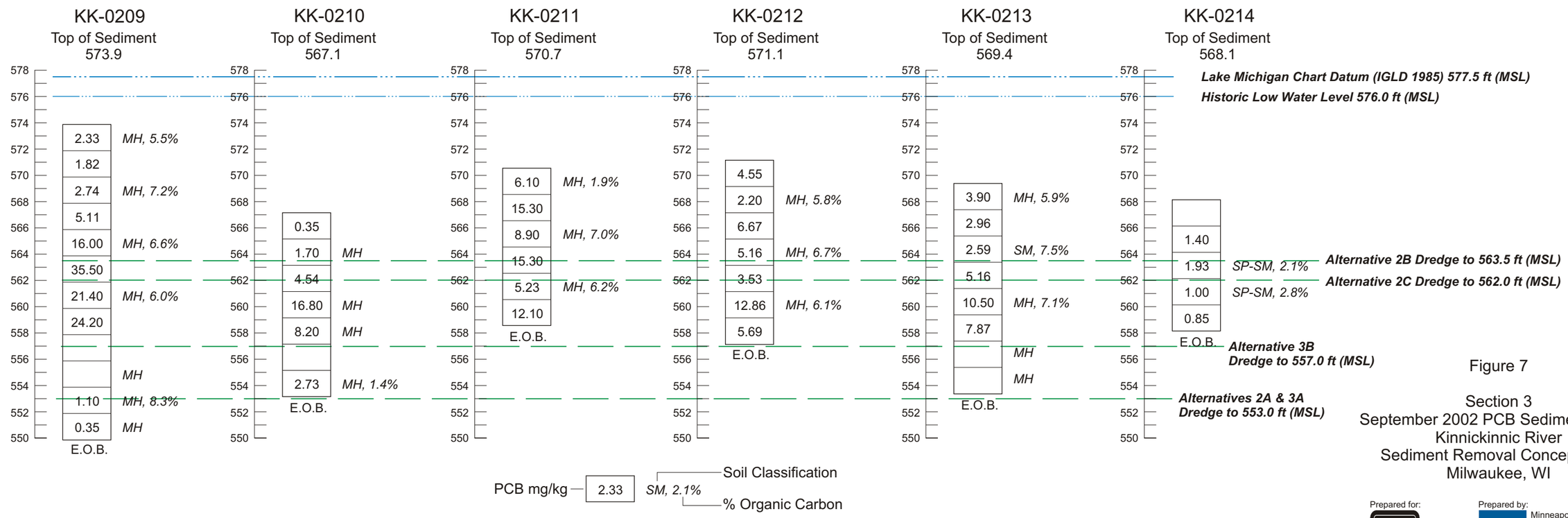


Figure 7

Section 3
September 2002 PCB Sediment Profile
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

SOURCE: USACE & WDNR. April 7, 2004. Kinnickinnic River, Wisconsin - Milwaukee Estuary of Concern - Deepening/Remediation Concept Design Documentation Report.

NOTE: Dredging lines and soil boring logs are for illustration purposes only. The actual dredging elevation will be determined in the final design. Contaminant concentrations and lithology will vary across the project area.

Prepared for: USACE Detroit District

Prepared by: BARR
Minneapolis, Minnesota
Hibbing, Minnesota
Duluth, Minnesota
Ann Arbor, Michigan
Jefferson City, Missouri

P:\49\41\016\Graphics\2002PCBcFigure7.CDR RLG 04-06-04
Barr: Arcview 3.1, PM02, i:\projects\49\41\016\gis\project\kinn_river.apr, Layout: Section 3 PCB, ksw, Thu Aug 07 14:19:55 2003

2002 Sampling Locations

N

100 0 100 Feet

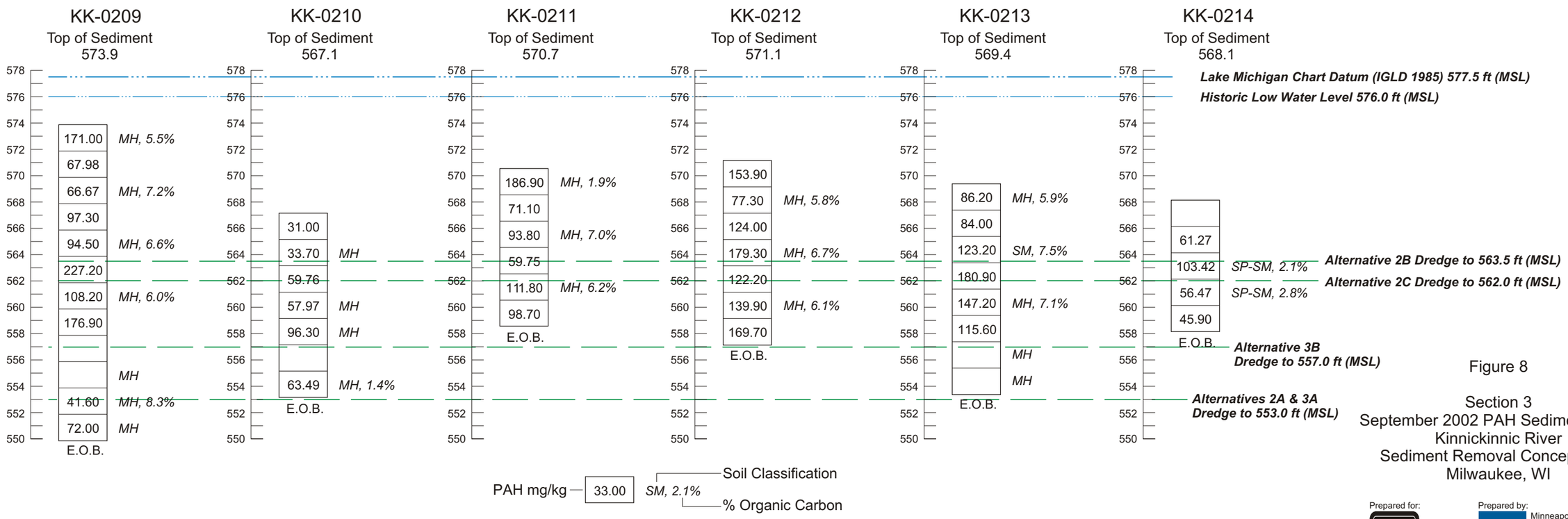


Figure 8

Section 3
September 2002 PAH Sediment Profile
Kinnickinnic River
Sediment Removal Concept Plan
Milwaukee, WI

Prepared for: USACE Detroit District

Prepared by: BARR
Minneapolis, Minnesota
Hibbing, Minnesota
Duluth, Minnesota
Ann Arbor, Michigan
Jefferson City, Missouri

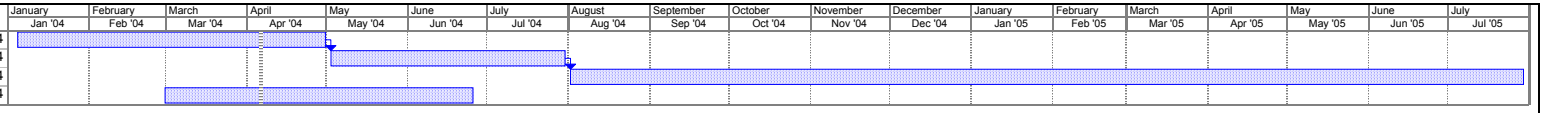
SOURCE: USACE & WDNR. April 7, 2004. Kinnickinnic River, Wisconsin - Milwaukee Estuary of Concern - Deepening/Remediation Concept Design Documentation Report.

NOTE: Dredging lines and soil boring logs are for illustration purposes only. The actual dredging elevation will be determined in the final design. Contaminant concentrations and lithology will vary across the project area.

P:\49\41\016\Graphics\2002PAHcFigure8.CDR RLG 04-06-04

Barr: Arcview 3.1, PM02, I:\projects\49\41\016\gis\project\kinn_river.apr, Layout: Section 3 PAH, ksw, Thu Aug 07 14:10:53 2003

ID	Task Name	Duration	Start
1	Design/Specs	17 wks	Mon 1/5/04
2	Construction Bidding/Contracti	13 wks	Mon 5/3/04
3	Dredging/Disposal	52 wks	Mon 8/2/04
4	Permitting	17 wks	Mon 3/1/04



Project: Kinnickinnic River
Date: Tue 4/6/04

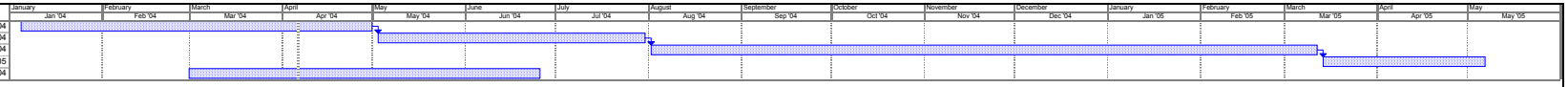
Task | Progress | Summary | External Tasks | External Milestone | External Milestone | Deadline
Split | Milestone | Project Summary | External Milestone | External Milestone | External Milestone

P:\49\41\016\final\Tables, Figures\Figure 9
Project Schedule - Alternative 2a.mpp

Figure 9
Project Schedule
Alternative 2a

Kinnickinnic River, Wisconsin
Milwaukee Estuary of Concern - Deepening/Remediation
Concept Design Documentation Report

ID	Task Name	Duration	Start
1	Design/Specs	17 wks	Mon 1/5/04
2	Construction Bidding/Contracting	13 wks	Mon 5/3/04
3	Dredging/Disposal	32 wks	Mon 8/2/04
4	Cap Construction (3 ft cap)	8 wks	Mon 3/14/05
5	Permitting	17 wks	Mon 3/1/04



Project: Kinnickinnic River
Date: Tue 4/6/04

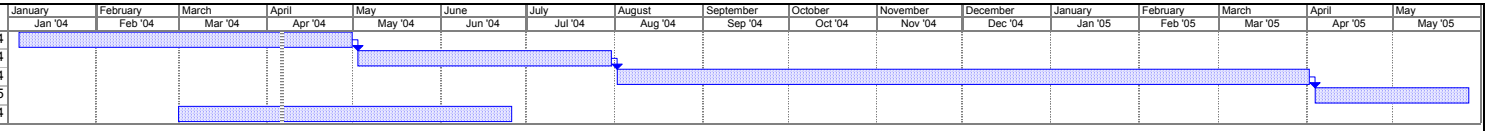
Task | Progress | Summary | External Tasks | External Milestone | External Milestone | External Milestone | External Milestone
Split | Milestone | Project Summary | External Milestone | External Milestone | External Milestone | External Milestone | Deadline

P:\49\41\016\final\Tables, Figures\Figure 10
Project Schedule - Alternative 2b.mpp

Figure 10
Project Schedule
Alternative 2b

Kinnickinnic River, Wisconsin
Milwaukee Estuary of Concern - Deepening/Remediation
Concept Design Documentation Report

ID	Task Name	Duration	Start
1	Design/Specs	17 wks	Mon 1/5/04
2	Construction Bidding/Contracting	13 wks	Mon 5/3/04
3	Dredging/Disposal	35 wks	Mon 8/2/04
4	Cap Construction (3 ft cap)	8 wks	Mon 4/4/05
5	Permitting	17 wks	Mon 3/1/04



Project: Kinnickinnic River
Date: Tue 4/6/04

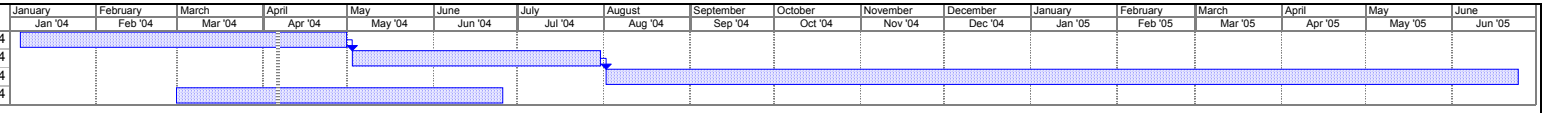
Task	Milestone	External Tasks	External Milestone	External Milestone	External Milestone	Deadline	
Split	Summary	External Milestone	External Milestone	External Milestone	External Milestone		
Progress	Project Summary	External Milestone	External Milestone	External Milestone	External Milestone		

P:\49\41\016\final\Tables, Figures\Figure 11
Project Schedule - Alternative 2c.mpp

Figure 11
Project Schedule
Alternative 2c

Kinnickinnic River, Wisconsin
Milwaukee Estuary of Concern - Deepening/Remediation
Concept Design Documentation Report

ID	Task Name	Duration	Start
1	Design/Specs	17 wks	Mon 1/5/04
2	Construction Bidding/Contracti	13 wks	Mon 5/3/04
3	Dredging/Disposal	47 wks	Mon 8/2/04
4	Permitting	17 wks	Mon 3/1/04



Project: Kinnickinnic River
Date: Tue 4/6/04

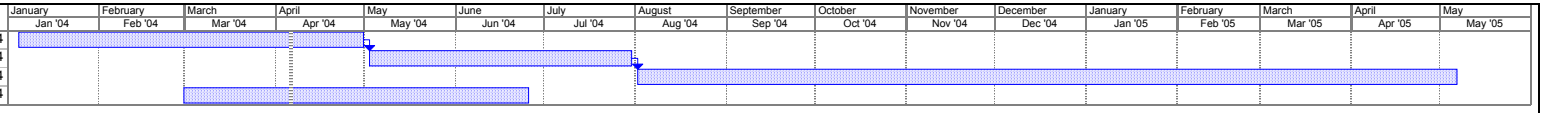
Task | Progress | Summary | External Tasks | External Milestone | External Milestone
Split | Milestone | Project Summary | External Milestone | External Milestone | Deadline

P:\49\41\016\final\Tables, Figures\Figure 12
Project Schedule - Alternative 3a.mpp

Figure 12
Project Schedule
Alternative 3a

Kinnickinnic River, Wisconsin
Milwaukee Estuary of Concern - Deepening/Remediation
Concept Design Documentation Report

ID	Task Name	Duration	Start
1	Design/Specs	17 wks	Mon 1/5/04
2	Construction Bidding/Contracti	13 wks	Mon 5/3/04
3	Dredging/Disposal	40 wks	Mon 8/2/04
4	Permitting	17 wks	Mon 3/1/04



Project: Kinnickinnic River
Date: Tue 4/6/04

Task | Progress | Summary | External Tasks | External Milestone | External Milestone | Deadline
Split | Milestone | Project Summary | External Milestone | External Milestone | External Milestone

P:\49\41\016\final\Tables, Figures\Figure 13
Project Schedule - Alternative 3b.mpp

Figure 13
Project Schedule
Alternative 3b

Kinnickinnic River, Wisconsin
Milwaukee Estuary of Concern - Deepening/Remediation
Concept Design Documentation Report