

Tracking number	Milestone	Target Date	Date Completed	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
<b>MINIMUM SUSTAINABLE PROGRAM</b>								
<b>Aquatic Vegetation Component</b>								
2007A1	Complete data entry and QA/QC of 2006 data; 1250 observations.							
	a. Data entry completed and submission of data to USGS	15-Oct-06	✓15-Oct-06	Completed				Popp, Dukerschein, Kirby
	b. Data loaded on level 2 browsers	30-Oct-06	✓30-Oct-06	Completed				Hansen
	c. QA/QC scripts run and data corrections sent to Field Stations	15-Nov-06	✓15-Nov-06	Completed				Sauer
	d. Field Station QA/QC with corrections to USGS	30-Nov-06	✓30-Nov-06	Completed				Popp, Dukerschein, Kirby
	e. Corrections made and data moved to public Web Browser	30-Dec-06	✓30-Dec-06	Completed				Sauer, Hansen, Caucutt
2007A2	WEB-based annual Aquatic Vegetation Component Update with 2006 data on Public Web Server.							
	a. Develop first draft	15-Feb-07	✓25-Jan-07		Completed			Sauer
	b. Reviews completed	28-Feb-07	✓5-Feb-07		Completed			Popp, Dukerschein, Kirby, Sauer, Yin
	c. Submit final update	31-Mar-07	✓12-Feb-07		Completed			Sauer
	d. Placement on Web with PDF	30-Jul-07	✓4-Apr-07				Completed	Sauer
2007A3	Complete aquatic vegetation sampling for Pools 4, 8, and 13 (Table 1)	31-Aug-07	✓31-Aug-07				Completed	Popp, Dukerschein, Kirby
2007A4	Draft product completion report: Developing submersed aquatic plant bioindicators and biocriteria for the upper Mississippi River	30-May-07	✓30-May-07			Completed		Dukerschein, Langreher, Popp, Moore
2007A5	Draft LTRMP report: Monitoring floodplain forest regeneration (Glide Path)	30-Sep-07					Delayed to 1st quarter FY08	Chick, Cosgriff
2007A6	Draft manuscript: 2006 UMR floodplain forest resurvey summary	31-Jul-07	✓31-Jul-07				Completed	Yin, Cosgriff, Henderson, Lundh
2007A7	Web-based: Creating surface distribution maps for aquatic plant species in Pools 4, 8, and 13	31-Jul-07					Delayed to 31 Oct.	Yin
2007A8	Draft LTRMP Report: Development of Rapid Assessment Methods for Aquatic Vegetation (2006Glide1)	14-Jun-07				Delayed to 30 Aug	Delayed to 1st quarter FY08	Chick, Cosgriff
2007A9	Draft OFR: LTRMP Aquatic Vegetation Program Review	28-Feb-07				Delayed to 30 Dec		Heglund

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	LTRMP report: Establish baseline of SAV distribution and index of abundance (2005GLIDE4)	30-Mar-07	✓ 22-Aug-07		Received USGS Bureau approval 3/23; awaiting desktop publishing		Converted to a completion report	
	Completion report: nonresponse, frame and measurement errors (2006A5)	30-Jun-07	✓ 30-Sep-07			Delayed until 30 Sept	Completed	
	Completion report on enhancement of analysis on backwater effects on chlorophyll <i>a</i> (2006A6)	30-Jun-07	✓ 10-Apr-07			Completed		
Manuscript	Evaluation of Aquatic Macrophyte Community Response to Island Construction in the UMR (Langrehr 2005A5, 2006A4)	Submitted to Lake and Reservoir Management on 2-15-2006 Accepted for publication on 11-18-2006 Lake and Reservoir Management 23:313-320, 2007						
<b>Fisheries Component</b>								
2007B1	Complete data entry, QA/QC of 2006 fish data; ~1,590 observations							
	a. Data entry completed and submission of data to USGS	31-Jan-07	✓ 1-Feb-07		Completed			Popp, Dukerschein, Kirby, Chick, Sass, Hrabik
	b. Data loaded on level 2 browsers; QA/QC scripts run and data corrections sent to Field Stations	10-Feb-07	✓ 14-Feb-07		Completed			Hansen, Sauer
	c. Field Station QA/QC with corrections to USGS	1-Mar-07	✓ 20-Feb-07		Completed			Popp, Dukerschein, Kirby, Chick, Sass, Hrabik
	d. Corrections made and data moved to public Web Browser	15-Mar-07	✓ 23-Feb-07		Completed			Sauer, Hansen
2007B2	WEB-based annual Fisheries Component Update with 2006 data on Public Web Server.							
	a. Develop first draft	30-Apr-07	✓ 1-Mar-07			Completed		Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
	b. Reviews completed	15-May-07	✓ 15-May-07			Completed		Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik, Johnson, Knights, Cox
	c. Submit final update	31-May-07	✓ 30-May-07			Completed		Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
	d. Placement on Web with PDF	31-Aug-07	✓ 24-Aug-07				Completed	Sauer, Caucutt, Cox
2007B3	Complete fisheries sampling for Pools 4, 8, 13, 26, the Open River, and La Grange Pool (Table 1)	31-Oct-07						Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik

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2007B4	Draft manuscript: Proportional biomass contributions of Non-native fish to UMRS fish communities	30-Sep-07				PI's time redirected to redraft of Chapter 1 of the Status and Trends report. New deadline for 2007B4; September 30, 2007		Ickes
2007B5	Draft LTRMP report: Trends in abundance of fish species linked to vegetation	31-Jul-07					Delayed to 31 March 2008	Popp, Delain
2007B7	Draft manuscript: Evaluation of a Catch and Release Regulation for Largemouth Bass in Brown's Lake, Pool 13, Upper Mississippi River	30-Jun-07	✓ 30-Jun-07			Completed		Kirby, Bowler
2007B8	Draft manuscript: Proportional Size Density and Frequency of Occurrence of Flathead Catfish ( <i>Pylodictis olivaris</i> ), Channel Catfish ( <i>Ictalurus punctatus</i> ), and Blue Catfish ( <i>I. furcatus</i> ) in an impounded and unimpounded reach of the Upper Mississippi River. (Expanded work on 2006B12)	30-Aug-07					Delayed 1st quarter FY08	Hrabik, Barko
2007B9	Final draft report: LTRMP Fisheries Component collection of six darter species from 1989–2004. (2006B13)	15-Apr-07				In USGS review process		Hrabik, Ridings
2007B10	Final draft OFR: Asian carp in the Mississippi River: their impact on native fish species and predicted dispersal within the system. (2005APE13)	30-Mar-07	✓ 30-Mar-07		Completed			Hrabik, Barko
2006B5	Draft manuscript: Standardized CPUE data from multiple gears for community level analysis.	30-Mar-07				Delayed to 30 Aug; revision of initial submission	Delayed 1st quarter FY08	Chick
2006B6	Draft manuscript: Spatial structure and temporal variation of fish communities in the Upper Mississippi River.	1-Sep-07					Delayed 1st quarter FY08	Chick
2006B9	Draft completion report: Exploratory Analysis of Index of Biotic Integrity Scores Calculated from Datasets Obtained from Three Different Day Electrofishing Protocols	30-Nov-06	✓ 30-Nov-06	Completed				Dukerschein, Bartels
2006B10	Draft MDNR report: Multi-year fish report on Pool 4	22-Dec-06	✓ 22-Dec-06	Completed				Popp, Delain
2006APE17b	Final draft LTRMP report: Investigate effects of newly completed HREPs (Lake Chautauqua NWR, Banner Marsh State Fish and Wildlife Area) in La Grange Pool	30-May-07				In USGS review process		Sass
2005APE15	Draft manuscript: Occurrence and Predicted Dispersal of Asian Carp ( <i>Hypophthalmichthys</i> spp.) in the Mississippi River System: Development of a Heuristic Tool.	15-Jan-07	✓ 8-Jan-07		Completed			Hrabik, Barko

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<b>Estimated distribution date</b>								
	Completion report: Habitat-related factors that are potentially limiting backwater fish communities (2006B8; Bartels)	30-Jun-07				In USGS review process		
	Completion report: Exploratory Analysis of Index of Biotic Integrity Scores Calculated from Datasets Obtained from Three Different Day Electrofishing Protocols (2006B9;	30-Jun-07				In USGS review process		
	Completion Report: Non-native fishes in the Upper Mississippi River System: A Synthesis of Information from the Long Term Resource Monitoring Program (2005B8; Irons)	30-Mar-07	✓30-Apr-07			Completed		
	LTRMP Report: Fish life history database report (2005B5; O'Hara)	30-Sep-07	✓12-Jul-07				Completed	
	Completion report: LTRMP Fisheries Component collection of six darter species from 1989–2004. (2006B13; Ridings)	30-Sep-07					In USGS review process	
	LTRMP report: Analysis of fish age structure and growth in the Illinois River (2005APE11; Sass)	30-Sep-07	✓12-Jul-07				Completed	
	OFR: Asian carp in the Mississippi River: their impact on native fish species and predicted dispersal within the system. (2005APE13; Barko)	30-Sep-07					In USGS review process	
<b>Water Quality Component</b>								
2007D1	Complete calendar year 2006 fixed-site water quality sampling	31-Dec-06	✓31-Dec-06	Completed				Houser, Popp, Dukerschein, Kirby, Chick, Sass, Hrabik
2007D2	Complete laboratory analysis of 2006 fixed site and SRS data; Data loaded to Oracle data base.	30-Mar-07	✓31-Jan-07			Completed		Yuan
2007D3	Complete data entry, QA/QC of calendar year 2006 fixed-site and SRS data.	30-May-07	✓30-Mar-07			Completed		Rogala, Popp, Dukerschein, Kirby, Chick, Sass, Hrabik
2007D4	Complete fixed site and SRS sampling for Pools 4, 8, 13, 26, Open River, and La Grange Pool	30-Sep-07	✓30-Sep-07				Completed	Popp, Dukerschein, Kirby, Chick, Sass, Hrabik
2007D5	WEB-based annual Water Quality Component Update with 2006 data on Public Web Server.	30-Jun-07	✓9-Apr-07			Completed		Rogala
2007D6	Draft LTRMP report: Sampling of light regime in support of aquatic vegetation modeling	30-Jun-07	✓24-Apr-07			Completed		Dukerschein, Giblin, Hoff
2007D7	Draft LTRMP report: Pool 5 water quality, pre- and post-drawdown	31-Aug-07	✓30-Sep-07			Delayed to 30 Sept.	Completed	Popp, Burdis

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2007D8	Draft report or manuscript (depending on the strength of the findings): Primary production, and dissolved oxygen dynamics in UMRS backwater lakes.	15-Sep-07	✓ 30-Sep-07				Completed	Houser
2006D5	Draft manuscript describing results of analyses of spatial and temporal patterns in UMRS WQ	30-Jun-07	✓ 30-Sep-07				PT's time redirected to redraft of Chapter 1 of the Status and Trends report. New deadline for 2006D5; September 30, 2007; Completed--draft submitted to B. Johnson	Houser
2006D6	Draft completion report: Evaluation of new Hydrolab Turbidity Probe	30-Nov-06	✓ 30-Nov-06	Completed				Dukerschein
2006D7	Draft completion report: Lake Pepin zooplankton and water quality data	30-Mar-07	✓ 20-Jul-07		Delayed to 31 July 2007	Completed		Popp
2005D7	Draft LTRMP report: Main channel/side channel report for the Open River Reach.	30-Mar-07			Delayed to 30 Sept. 2007		Delayed 1st quarter FY08	Hrabik
2005APE24a	Final draft LTRMP report: retrospective, cross-component analysis for Pool 26	15-Jul-07					Delayed to 15 Nov. 2007	Chick, Johnson
<b>Estimated distribution date</b>								
	Completion report: Evaluation of new Hydrolab Turbidity Probe (2006D6; Hoff)	30-Jun-07				In USGS review process		
	LTRMP report: A decade of monitoring on Pool 26 of the Upper Mississippi River: Water quality and fish data with cross component analyses (2005APE24a; Chick)	30-Sep-07					In USGS review process	
	Completion report: Effectiveness of wetland creation (2006D8; Kirby)	30-Sep-07					In USGS review process	
	Completion report: Examining nitrogen and phosphorus ratios N:P in the unimpounded portion of the Upper Mississippi River (2006D9; Crites)	30-Sep-07					In USGS review process	

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<b>Statistical Evaluation of Monitoring Data</b>								
2007E1	Draft completion report describing methods for estimating vegetation levels at small scales using rake data	31-Aug-07	✓31-Aug-07				Completed	Gray, Yin
2007E2	Draft completion report describing methods for estimating status and trends at large spatial scales from vegetation rake data	15-Sep-07	✓30-Sep-07				Completed	Gray, Yin
<b>Estimated distribution date</b>								
	Submit draft manuscript on Chlorophyll <i>a</i> and inorganic suspended solids in backwater lakes of the UMRS (2006APE13)	30-Sep-07	✓18-Sep-07			Completed		Gray
	Completion report: Methods for evaluating power-to-detect trends in prevalence data (2006E2)	30-Jun-07	✓18-Sep-07			Bureau approval 7-19-2007	Completed	Gray
Manuscript	Estimating power to detect trends in grouped count data (2005E3; Gray)	Submitted to Ecology on 12-20-2005 Accepted for publication on 1-17-07						
<b>Data Management</b>								
2007M1	Update vegetation, fisheries, and water quality component field data entry and correction applications.	30-May-07	✓30-May-07			Completed		Hansen
2007M2	Load 2006 component sampling data into Oracle tables and make data available on Level 2 browsers for field stations to QA/QC.	30-Jun-07	✓1-Jun-07			Completed		Hansen
<b>Land Cover/Land Use with GIS Support</b>								
2007V1	Provide quarterly updates to LTRMP management	Quarterly		Completed	Completed	Completed		Robinson
<b>Bathymetry</b>								
2007T1	Provide quarterly updates to LTRMP management	Quarterly		Completed	Completed	Completed	Completed	Rogala
<b>Macroinvertebrate Component</b>								
2005C2	Draft LTRMP Report: Open River macroinvertebrates	30-Mar-07			Delayed to 30 Sept. 2007		Delayed	Hrabik
<b>LTRMP Summary Report</b>								
2007S1	2005 LTRMP Web-based summary report on-line	31-Aug-07					Delayed 1st quarter FY08	Johnson, Houser, Ickes, Yin

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<b>ADDITIONAL PROGRAM ELEMENTS</b>								
2007APE1	<b>Importance of the Upper Mississippi River Forest Corridor to Neotropical Migratory Birds</b> Draft manuscript	30-Dec-07						Kirsch
2007APE2	<b>Asian Carp Effects on Zooplankton Abundance and Composition in Backwater Lakes</b> Draft LTRMP Report	30-Mar-08						Chick
2007APE3	<b>Testing the Fundamental Assumption underlying the use of LTRMP fish data: Does variation in LTRMP catch-per-unit-effort data reflect variation in the abundance of fishes?</b> Draft LTRMP Report	30-Dec-07						Chick
2007APE4a	<b>Analysis of waterbird data from the UMRS</b> Final database completed	30-Jan-08						Meier
2007APE4b	Draft LTRMP Report for UMR waterbird data	30-Mar-08						Meier
2007APE5	<b>Status and trends of floodplain forests on the UMR</b> Draft manuscript	30-Mar-08						Yin
2007APE6	<b>Primary production in the UMRS: Contrasts in dissolved oxygen dynamics, primary production, and respiration among aquatic areas of the UMRS</b> Draft manuscript	15-Feb-08						Houser
2007APE7	<b>Association between fish assemblage and off-channel area type in the impounded reach of the Upper Mississippi and Illinois rivers: implications for habitat restoration at management-relevant scales</b> Draft completion report	30-Sep-07					Delayed to 31 Oct. 2007	Knights
2007APE8	<b>A Proposal to restore Specific Monitoring Elements to the LTRMP</b> Draft completion report	30-Dec-07						Chick et al.
2007APE9	<b>Development of sampling designs for estimating mussel abundances associated with HREPs</b> Draft completion report	30-Mar-08						Newton
2007APE10	<b>Cumulative HREP effects on ecological characteristics of impounded regions of the Upper Mississippi River</b> Completion report	30-Sep-07	✓30-Sep-07				Submitted for USGS review.	Gray

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2007APE11	<b>Aquatic Vegetation and Water Quality Response Two Years after a Summer Drawdown on Navigation Pool 5 of the Upper Mississippi River</b> 100 true color aerial photos at 1:10,000 scale	31-Aug-07	✓31-Aug-07				Completed	Popp
2007APE12	<b>Ecological Assessment of High Quality UMRS Floodplain Forests</b> Draft LTRMP Report	30-Dec-07						Chick
2007APE13	<b>Assessment of high-resolution digital imagery for UMRS vegetation mapping and software-based vegetation classification</b> Draft completion report	31-Dec-07						Robinson
2007S&Ta	<b>Status and Trends Report</b> Draft report available for technical review (30 day review period)	15-Feb-07	✓30-Mar-07	Completed				Hagerty and Johnson
2007S&Tb	Final draft report submitted for editorial review	1-Sep-07	✓16-Nov-07				Completed	Hagerty and Johnson
2007S&Tc	Report printed and distributed							Hagerty and Johnson
2007VTa	<b>Data Visualization Tools</b> Maintenance of graphical fish browser. Update annual sampling tables	30-Sep-07						Ickes (MSP), Caucutt (MSP), Schlifer
2007VTb	Maintenance of graphical vegetation browser. Update annual sampling tables	30-Dec-07	✓31-Mar-07				Completed	Sauer (MSP), Schlifer, Caucutt (MSP)
2007VTc	Enhance display of graphics for the Graphical Vegetation Browser	30-Dec-07						Yin (MSP), Schlifer, Caucutt (MSP)
2007VTd	Maintenance of Graphical Water Quality Browser Fixed Site	30-Nov-07						Houser (MSP), Schlifer, Kratt, Caucutt (MSP)
2007VTe	Maintenance of Water Quality Browser Graphical for Stratified Random Sampling sites	30-Nov-07						Houser (MSP), Rogala (MSP), Caucutt (MSP), Schlifer
2007VTf	Update Land Cover Viewer ArcIMS server to ArcServer	30-Sep-07	✓30-Sep-07				Completed	Fox
2007VTg	Quality control, formatting and organization of historical data. Online delivery of historical data	30-Dec-07						Lowenberg, Nelson, Caucutt (MSP)
2007VTh	Develop specifications, purchase and configure ArcGIS Server	30-Jun-07	✓30-Jun-07				Completed	Fox
2007VTi	Construct GeoDatabase and mapping web service	28-Feb-08						Fox
2007VTj	Creation of an online viewer (ArcServer) of historical data	30-Mar-08						Fox



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2007LiDARa	<b>LiDAR Acquisition</b> Final extent of data collection identified and specified	31-Jul-07	✓ 31-Jul-07				Completed	DeHaan
2007LiDARb	LiDAR information provided to POCs (Raw data)	31-Jan-08						DeHaan
2007LiDARc	Final topographic data products provided to USGS and USACE POCs by Iowa DNR (Processed data)	30-Mar-08						DeHaan
2007BATHa	<b>Bathymetry</b> Anticipated Schedule from each District POC	1-Jun-07	✓ 1-Jun-07			Completed		DeHaan
2007BATHb	Final data call to UMESC POC	30-Sep-07	✓ 30-Sep-07				Completed	DeHaan
2007BATHc	Summary report	30-Sep-07						DeHaan