Tracking	Milestone	Target	Date	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
number		Date	Completed					
MINIMU I	M SUSTAINABLE PROGRAM							
Aquatic Ve	getation Component							
2006A1	Complete data entry and QA/QC of 2005 data; 1250 observations.							Popp, Dukerschein, Kirby, Sauer, Hansen
	a. Data entry completed and submission of data to USGS	1-Oct-05	✓ 7-Sep-05	Completed				Popp, Dukerschein, Kirby
	b. Data loaded on level 2 browsers	10-Oct-05	30-Sep-05	Completed				Hansen
	c. QA/QC scripts run and data corrections sent to Field Stations	30-Oct-05	✓ 13-Oct-05	Completed		OR B		Sauer
	d. Field Station QA/QC with corrections to USGS	15-Nov-05	21-Oct-05	Completed		7),,		Popp, Dukerschein, Kirby
	e. Corrections made and data moved to public Web Browser	30-Nov-05	7-Nov-05	Completed				Sauer, Hansen, Caucutt
2006A2	WEB-based annual Aquatic Vegetation Component Update with 2005 data on Public Web Server.							Popp, Dukerschein, Kirby, Sauer, Heglund
	a. Develop first draft	15-Feb-06	✓ 25-Jan-06		Completed			Sauer
	b. Reviews completed	28-Feb-06	✓21-Apr-06	Difficulty getting reviewers	Completed			Popp, Dukerschein, Kirby, Sauer, Heglund, Yin, Cox
	c. Submit final update	31-Mar-06	✓ 22-May-06	Software malfunction	Completed			Sauer, Heglund
	d. Placement on Web	30-Jul-06	✓ 22-Jun-06				Completed	Sauer, Caucutt, Cox
2006A3	Complete aquatic vegetation sampling for Pools 4, 8, and 13 (Table 1)	31-Aug-06	✓ 1-Aug-06				Completed	Popp, Dukerschein, Kirby
2006A4	Address review comments and submit draft manuscript: Evaluation of Aquatic Macrophyte Community Response to Island Construction in the UMR	30-Jan-06	✓ 15-Feb-06		Completed and submitted to Lake and Reservoir Management		Accepted for publication; 11-18-2006	Dukerschein, Yin, Gray, Heglund
2006A5	Contract report: nonresponse, frame and measurement errors	30-Aug-06	✓ 29-Sep-06				Completed; submitted for USGS review	Rogala, Gray
2006A6	Submit progress report on enhancement of analysis on backwater effects on chlorophyll <i>a</i>	30-Aug-06	✓ 22-Sep-06				Completed	Rogala
2006A7	Guidance to the UMESC-LTRMP management team on scientific review of the vegetation component	30-Aug-06	✓ 28-Sep-06				Completed	Heglund, Yin
2005GLIDE3 ²	Submit LTRMP draft report: Establish baseline of SAV distribution and index of abundance	31-Jan-06	✓3-Mar-06		Completed Reviews sent to author 12 April			Chick, O'Hara

Tracking number	Milestone	Target Date	Date Completed	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
2005GLIDE4 ²	Submit LTRMP final draft report: Establish baseline of SAV distribution and index of abundance	30-Sep-06	✓ 30-Nov-06				Completed; submitted for USGS review	Chick, O'Hara, Heglund, Gray
Fisheries C	Component							
2006B1	Complete data entry, QA/QC of 2005 fish data; ~1,590 observations							Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik, Hansen
	a. Data entry completed and submission of data to USGS	31-Jan-06	✓ 8-Feb-06		Completed			Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
	b. Data loaded on level 2 browsers; QA/QC scripts run and data corrections sent to Field Stations	10-Feb-06	✓ 14-Feb-06		Completed			Sauer, Hansen
	c. Field Station QA/QC with corrections to USGS	1-Mar-06	✓ 6-Mar-06		Completed	OR		Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
	d. Corrections made and data moved to public Web Browser	15-Mar-06	✓ 8-Mar-06		Completed			Sauer, Hansen, Caucutt
2006B2	WEB-based annual Fisheries Component Update with 2005 data on Public Web Server.							Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik, Johnson
	a. Develop first draft	30-Apr-06	√ 16-Mar-06			Completed		Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
	b. Reviews completed	15-May-06	✓ 5-Jun-06			Completed		Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik, Johnson, Knights, Cox
	c. Submit final update	31-May-06	✓ 22-Jun-06		Delayed due to software malfunction	Completed		Sauer, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
	d. Placement on Web	31-Aug-06	✓ 24-Oct-06		manunction		Completed	Sauer, Caucutt, Cox
2006B3	Complete fisheries sampling for Pools 4, 8, 13, 26, the Open River Reach, and La Grange Pool (Table 1)	31-Oct-06					Completed	Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
2006B4	Submit draft framework for over-wintering fish as part of the Additional Program Elements proposal process	31-Oct-05	✓ 31-Oct-05	Completed				Ickes

Tracking number	Milestone	Target Date	Date Completed	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
2006B5	Submit draft manuscript: Standardized CPUE data from multiple gears for community level analysis.	31-Jan-06	Completed		Manuscript was submitted to Journal (CFAS). It was rejected, and will be revised and submitted to another journal.		Delayed to FY07	Chick, Minchin, Ickes, Pegg, Barko, Chick, J.H., P.R. Minchin, B. Ickes, M.A. Pegg, and V.A. Barko.
2006B6	Submit draft manuscript: Spatial structure and temporal variation of fish communities in the Upper Mississippi River.	28-Feb-06			Manuscript delayed until after 2006B5 is revised and resubmitted.		Delayed to FY07	Chick, Ickes, Pegg, Barko, Hrabik, Herzog, Johnson, Cox
2006B7	Enhancement of the fish graphical browser	30-Sep-06	✓30-Sep-06		resummed.		Completed; submitted for USGS review	Dukerschein, Ickes, Sauer
2006B8	Summary report: Habitat-related factors that are potentially limiting backwater fish communities	15-May-06	✓25-May-06			Completed; submitted for USGS review	OS OS TEVIEW	Dukerschein
2006В9	Summary report: LTRMP-EMAP protocol related inferences	31-Aug-06	√ 30-Nov-06			OSGS TOTION	Completed; submitted for USGS review	Dukerschein
2006B10	Draft MDNR report: Multi-year fish report on Pool 4	30-Sep-06		D	RAFI		Analysis completed Report to be submitted by Dec. 22	Рорр
2006B11	LTRMP Fish Autecology 10-year Report	30-Apr-06	✓ 1-Jul-06			Report submitted to USGS Editorial Staff for desktop publishing	Completed	Kirby, Bowler, Ickes, Johnson, Cox
2006B12	Submit draft manuscript: Catfish analysis	30-Jun-06	✓ 3-Aug-06			Completed		Hrabik
2006B13	Submit draft report: Large river darters	1-Aug-06	✓29-Sep-06				Completed	Hrabik

Tracking	Milestone	Target	Date	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
number		Date	Completed	_	_	_	_	
2005B5 ²	LTRMP report titled: Fish life history database report	31-Aug-06				Review complete, revisions made, in editorial (7/28/2006)	Galley proofs complete - set for printing	Dukerschein, Ickes, Johnson, Cox
2005B8 ²	Contract report titled: "Non-native fishes in the Upper Mississippi River System: A Synthesis of Information from the Long Term Resource Monitoring Program" to COE and USGS. (FY04 SOW) Irons et al.	30-May-06			Final edits completed by UMESC, resent to authors 20 April	Revisions being made by authors; maps updated		O'Hara, Popp, Chick, Ickes, Kolar, Hrabik, Johnson
2005B12 ²	Complete and distribute USGS open-file report on fish analysis. (FY02 SOW)	30-Mar-06	✓ 2-Mar-06		Completed-to USGS hub for desktop publishing		Online: http://pubs.usgs.g ov/of/2006/1074/p df/ofr2006- 1074.pdf	Ickes
2005APE11 ²	Submit final draft LTRMP report: Analysis of fish age structure and growth in the Illinois River	30-Apr-06	✓ 29-Jun-06			Completed: Revised version sent to UMESC	To USGS editorial	O'Hara, Chick, Johnson, Cox
2005APE13 ²	Submit draft OFR: Asian Carp in the Mississippi River	30-Jun-06	21-Jun-06			Completed		Barko
2005APE14 ²	Submit draft manuscript: Asian Carp in the Mississippi River:	30-Sep-06	30-Sep-06				Completed; submitted for USGS review	Barko
Water Qua	lity Component							
2006D1	Complete calendar year 2005 fixed-site water quality sampling	31-Dec-05	✓31-Dec-05	Completed				Houser, Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik
2006D2	Complete laboratory analysis of 2005 fixed site and SRS data; Data loaded to Oracle data base.	30-Mar-06	✓ 3-Mar-06		Completed			Yuan, Hansen
2006D3	Complete data entry, QA/QC of calendar year 2005 fixed-site and SRS data.	30-May-06	√ 30-May-06			Completed		Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik, Hansen
2006D4	Complete fixed site and SRS sampling for Pools 4, 8, 13, 26, Open River, and La Grange Pool (Table 1)	30-Sep-06	✓30-Sep-06				Completed	Popp, Dukerschein, Kirby, Chick, O'Hara, Hrabik

Tracking number	Milestone	Target Date	Date Completed	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
2006D5	Submit draft manuscript describing results of analyses of spatial and temporal patterns in UMRS WQ.	15-Sep-06	29-Sep-06		ORA		Completed; submitted for USGS review	Houser
2006D6	Submit draft contract report: Evaluation of new Hydrolab Turbidity Probe	30-Sep-06	30-Nov-06		Dir		Completed; submitted for USGS review	Dukerschein
2006D7	Submit draft report: Lake Pepin zooplankton and water quality data	30-Sep-06					Analysis in progress; Report to be submitted by March 30	Рорр
2006D8	Summary of analysis on effectiveness of wetland creation	30-Jul-06	✓ 30-Jul-06				Completed; submitted for USGS review	Kirby
2006D9	Effects of discharge on selected water physical and chemical parameters	1-Aug-06	✓29-Sep-06				Completed; submitted for USGS review	Hrabik
2005D7 ²	Draft report: Main channel/side channel report for the Open River Reach.	1-Jun-06				Analysis completed; report in progress.		Hrabik
2005D9 ²	Water Quality component update on-line	15-Feb-06	√ 30-Mar-06		Completed: www.umesc.us gs.gov/reports_ publications/ltr mp/water.html			Houser, Rogala
2005D10 ²	Water Quality component review	30-Apr-06	✓ 1-Jun-06			Completed		Houser, Johnson, Cox
2005APE24a ²	Submit final draft LTRMP report: retrospective, cross-component analysis for Pool 26	28-Feb-06	✓ 13-Sep-06		Reviews have been received and revisions are in progress.		Completed	Chick, Johnson
2005APE24b ²	LTRMP report: retrospective, cross-component analysis for Pool 26	30-Sep-06					Project completion report submitted 9/13/2006: LTRMP Report in FY07	Chick, Johnson, Cox
2005APE28 ²	Complete Water Quality Fixed Site Graphical Browser	30-Mar-06	✓ 20-Mar-06		Completed			Caucutt, Houser, Rogala

Tracking	Milestone	Target	Date	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
number	T 1 4 635 4 1 D 4	Date	Completed	<u> </u>	<u> </u>	<u> </u>		
	Evaluation of Monitoring Data	20.4 06	1 622 A 06	T	T	T	C 1 . 1	С н 1 1 1 1
2006E1	Power to detect change	30-Aug-06	✓ 23-Aug-06				Completed	Gray, Heglund, Johnson, Houser, Ickes, Sauer, Rogala
2006E2	Submit draft document describing methods for evaluating power-to-detect trends in prevalence data	15-Sep-06	✓ 27-Sep-06				Completed	Gray, Heglund
Data Mana	agement							
2006M1	Update vegetation, fisheries, and water quality component field data entry and correction applications.	30-May-06	1-Jun-06			Completed		Hansen
2006M2	Load 2005 component sampling data into Oracle tables and make data available on Level 2 browsers for field stations to QA/QC.	30-Jun-06	✓ 1-May-06			Completed		Hansen
Land Cove	er/Land Use							
2005V3 ²	LTRMP report titled: Upper Mississippi River Vegetation Change (1989-2000) (FY03)	30-Dec-05	30-Nov-06	Due to Admin. Commitments of PI, delayed to 30 June 2006		Draft report completed and in review 30-June-06	Completed; waiting for signature of Center Director	Lohman
2005APE18 ²	HNA GIS Query Tool compatible with ArcMap 9.0	30-Dec-05	✓ 17-Jan-06	Completed				Fox
Macroinve	ertebrate Component							
2006C1	LTRMP report titled: "Evaluation of the Long Term Resource Monitoring Program's Macroinvertebrate Component"	28-Feb-06	✓ 23-Jan-06		Completed			Sauer, Johnson, Cox
2005C2 ²	Open River Macroinvertebrate Report (Outstanding product)	15-Aug-06					Analysis in progress.	Hrabik, Johnson
Annual LT	FRMP Monitoring Summary Report							
2006S1	2004 annual LTRMP Web-based summary report on-line	30-Mar-06	✓ 3-May-06		Completed	AFT		Sauer, Heglund, Johnson, Gaugush, Houser, Ickes, Yin, Caucutt, Cox
2006S2	Draft 2005 annual LTRMP Web-based summary report	30-Sep-06	▼ 15-Oct-06			Die	Completed	Sauer, Gaugush, Houser, Ickes, Yin, Heglund, Johnson
2005S2 ²	Draft Web-based summary report submitted for USGS review (2000 & 2001) (FY02 SOW)	28-Feb-06	23-Nov-2005 & & 01-Dec-2005		Completed			Sauer, Johnson, Heglund, Gaugush, Houser, Ickes, Yin
2005S3 ²	Final draft Web-based summary report (2000 & 2001) (FY02 SOW)	31-May-06	✓ 7-Aug-06	Delayed due to problems & cl Web template	nange in USGS	Completed. Online: Oct. 2006		Sauer, Johnson, Heglund, Gaugush, Houser, Ickes, Yin

Tracking	Milestone	Target	Date	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
umber		Date	Completed					
DDITIO	NAL PROGRAM ELEMENTS							
evelopme	nt of two-dimensional numerical hydraulic models	for Mississip	pi River Poo	ol 13 and Illin	nois River La	Grange Poo	l	
006APE8	Hydrologic models of Pool 13 and La Grange Pool	30-Sep-06					Completed Pool	Martens
							13. But the	
							modeler is still in	
							the process of	
							calibrating the	
							model for	
							LaGrange. We	
							anticipate	
							completing this	
							portion of the	
							work by the end	
							of October	
	a relationship between LTRMP catch-per-unit-effo	_		nce estimates	from block	nets		
06APE11	Permits for application of chemicals	30-Sep-06	√ 18-Sep-06				We have received	Chick
							instructions and	
							assurances for	
							obtaining permits	
							for rotenone.	
							Actual permits	
							will only be	
							obtained if	
							funding for the	
							second year APE	
							comes through.	
							Sample design in	
							FY07 APE	
• 4• •	11 1 11 11 11 11 11 11 11 11	1 4 11	641 11	Ъ.Т	. D.		nronosal	
	n chlorophyll a and inorganic suspended solids in b			per Mississi	opi Kiver			_
06APE13	Submit draft manuscript on Chlorophyll <i>a</i> and inorganic	30-Aug-06	✓ 8-Sep-06				Completed	Gray
	suspended solids in backwater lakes of the UMRS							

Tracking	Milestone	Target	Date	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
number		Date	Completed					
Vegetation,	primary production, and dissolved oxygen dynamic	s in UMRS	backwater l	akes				
2006APE15a	Field data collection completed	30-Sep-06	✓30-Sep-06				Completed	Houser
2006APE15b	Database	30-Sep-06	✓31-Oct-06				Completed	Houser
Investigate	effects of newly completed HREPs (Lake Chautauqu	ıa NWR, B	anner Marsl	h State Fish a	nd Wildlife	Area) in La (Grange Pool	
2006APE17a	Draft LTRMP Technical Report	30-Jun-06	✓ 27-Nov-06			Delayed	Completed;	Chick, O'Hara
						submittal for	submitted for	
						requested	USGS review	
						review by Greg Sass		
2006APE17b	Submit final draft report	30-Sep-06						Chick, O'Hara
Developing	Indicators of Southern Bottomland Hardwood Fore	st Conditio	n within the	Upper Missi	ssippi River	Ecosystem		
2006APE21	Submit LTRMP draft report	30-Sep-06					Delayedresults	Battaglia
							of soil analysis not	
							yet received	
LTRMP wa	ater quality graphical browser for stratified random	sampling s	ites					
2006APE27	Graphical water browser for LTRMP Water Quality SRS sites on-	1-Sep-06	✓ 20-Oct-06				Completed;	Caucutt
	line						http://www.umesc	
							.usgs.gov/data_lib	
							rary/water_quality	
							/graphical/water_f	
			L				ront.html	
	ation forest on the UMR floodplain	T	1.0		ı			
2006APE29	Field data collection	30-Sep-06	✓ 30-Sep-06				Completed	Heglund, Yin
	getation and Water Quality Response to a Second Yo			wdown in Na	vigation Poo	15 of the UM		
2006APE30a	Aerial photos taken	31-Aug-06	✓ 22-Aug-06				Completed	Popp
2006APE30b	Vegetation and water quality sampling completed	30-Sep-06	✓ 20-Sep-06		<u> </u>		Completed	Popp
Identifying	potential controls on abundance and size structure of			ersity of fishe	s in off-chan	nel areas in t		
2006APE34	Draft contract report	1-Sep-06	✓30-Sep-06				Completed;	Knights
							submitted for	
							USGS review	

Tracking number	Milestone	Target Date	Date Completed	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
	of the UMR Forest Corridor to Neotropical Migrat							
2006APE42a	Ground surveys on Upper Mississippi River and Mark Twain and Illinois River Refuges. Monitor migration with radar.	30-Jun-06	✓ 30-Jun-06			Completed		Kirsch
2006APE42b	Draft contract report on protocol	30-Sep-06	✓29-Sep-06				Completed; submitted for USGS review	Kirsch
2006APE42c	Submit summary report	30-Sep-06	✓ 29-Sep-06				Completed; submitted for USGS review	Kirsch
Assessment	of the Rake Method for the Estimation of Submerse	d Aquatic	Vegetation I	evels				
2006APE43	Submit draft report	30-Aug-06	✓ 30-Nov-06				Completed	Deppa, Heglund
Identification	on of Hydraulic Characteristics of Habitats Selected	by Riverin	e Fishes					
2006APE49	Database completion	30-Sep-06	✓ 26-Oct-06				Completed	Gutreuter
Developme	nt of a floodplain forest restoration database for the	UMRS: a t	ool for futur	e coordinate	d forest man	agement plar	ning	
2006APE51	Submit summary report	30-Sep-06	✓ 30-Sep-06				Completed; submitted for USGS review	Kirsch
Status and	trends of waterbirds on the Upper Mississippi River							
2006APE52a	Completion of database	31-Jul-06	✓ 30-Sep-06				Completed	Meier
2006APE52b	Submit draft summary report	30-Sep-06	✓ 30-Sep-06				Completed. Final document sent to USACOE on 11/09/2006	Meier

Tracking	Milestone	Target	Date	1st quarter	2nd quarter	3rd quarter	4th quarter	Lead
number		Date	Completed					
Data Visua	lization Tools							
2006Tools1	Maintenance of graphical fish browser. Update annual sampling tables.	30-Sep-06	✓30-Sep-06				Completed	Schlifer, (Under MSP: Sauer, Caucutt)
2006Tools2	Enhancement of the graphical fish browser.	30-Sep-06	✓30-Sep-06				Completed; submitted for USGS review	Schlifer, (Under MSP: Dukerschein, Ickes, Sauer, Caucutt)
2006Tools3	Maintenance of graphical vegetation browser. Update annual sampling tables.	30-Sep-06	✓14-Feb-06				Completed	Schlifer, (Under MSP: Sauer, Caucutt)
2006Tools4	Complete Water Quality Fixed Site Graphical Browser (Pools 8, 13, and Open River in review)	30-Mar-06	✓ 5-May-06		Completed: www.umesc.usgs.gov/data_libr ary/water_quality/ wq_browser.html			Schlifer, Kratt, Caucutt (Under MSP: Houser, Rogala)
2006Tools5	Complete Water Quality Fixed Site Graphical Browser (Pools 4, 26 and La Grange)	30-Mar-06	✓ 5-May-06		Completed: www.umesc.usgs.gov/data_libr ary/water_quality/ wq_browser.html			Schlifer, Kratt, Caucutt (Under MSP: Houser, Rogala)
2006Tools6	Maintenance of Land Cover Viewer ArcIMS server	30-Sep-06	✓ 30-Sep-06				Completed	Nelson
Status and	Trends Report	•	•			•		
2006S&T1a	Draft report available for technical review (30 day review period)	1-Mar-06			New deadlines May 12 and June 16			Hubbell, Gaugush
2006S&T1b	Final draft report submitted for editorial review	1-May-06				In final revision by UMESC and COE		Hubbell, Gaugush
2006S&T1c	Report printed and distributed	TBD				002		Hubbell, Gaugush
Bathymetr								
2006ВАТНа	LTRMP Bathymetry coordinator will send maps of LTRMP bathymetry data gaps to all 3 Corps district contacts, available as shape files	31-Jan-06	✓31-Jan-06		Completed			Hubbell, Rogala
2006ВАТНЬ	The districts will provide an estimate of their capability, i.e. the number of survey days to be completed with the funding, to POC (cc M. Hubbell)	14-Feb-06	✓14-Feb-06		Completed			Hubbell, Rogala
2006ВАТНс	Anticipated Schedule from each District POC to primary POC (cc M. Hubbell)	1-Mar-06	✓ 1-Mar-06		Completed			Hubbell, Rogala
2006BATHd	FINAL DATA CALL to primary POC	30-Sep-06	✓ 1-Sep-06				Completed	Hubbell, Rogala
2006BATHe	Brief (~1 page) summary report (where, what, how, when, \$) (J. Rogala and 3 District POCs) to J. Sauer (cc M. Hubbell)	30-Sep-06	✓ 22-Sep-06				Completed	Hubbell, Rogala