Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
Aquatic Ve	getation Component					
2013A1	Complete data entry and QA/QC of 2012 data; 1250 observations.					
	a. Data entry completed and submission of data to USGS	30-Nov-12		25-Sep-12		Popp, Fischer, Bierman
	b. Data loaded on level 2 browsers	15-Dec-12		15-Oct-12		Schlifer
	c. QA/QC scripts run and data corrections sent to Field Stations	28-Dec-12		16-Oct-12		Sauer
	d. Field Station QA/QC with corrections to USGS	15-Jan-13		15-Nov-12		Popp, Fischer, Bierman
	e. Corrections made and data moved to public Web Browser	30-Jan-13		7-Jan-13		Sauer, Schlifer, Caucutt
2013A2	WEB-based annual Aquatic Vegetation Component Update with 2012 data	on Public We	b Server.			
	a. Develop first draft	30-Mar-13		22-Feb-12		Sauer
	b. Reviews completed	15-Apr-13		5-Mar-13		Popp, Fischer, Bierman, Sauer, Yin
	c. Submit final update	30-Jun-13		6-Mar-13		Sauer
	d. Placement on Web with PDF	31-Jul-13		7-Mar-13		Sauer, Caucutt
2013A3		31-Aug-13		31-Aug-13		Yin, Popp, Fischer, Bierman
2013A4	Web-based: Creating surface distribution maps for aquatic plant species in Pools 4, 8, and 13; 2012 data	31-Jul-13		30-Apr-13		Yin, Rogala, Schlifer
2013A5	Wisconsin DNR annual summary report 2012 that combines current year observations from LTRMP with previous years' data, for the fish, aquatic vegetation, and water quality components.	30-Apr-13		30-Sep-13		Fischer, Langrehr, Bartels, Giblin, Hoff
2013A6	Summary graphs 2012: Sampling the impaired reach of the UMR (Pools 2 and 3) for submersed aquatic vegetation using LTRMP methods.	30-Dec-12		30-Dec-12		Moore
2013A7	Draft manuscript: A statistical model of species occupancy using the LTRMP aquatic vegetation data.	15-Jul-13		29-Oct-13		Yin
2013A8	Extension of modeling capabilities for aquatic vegetation		xt on page 4 of 3 SOW		Contract awarded on 15 July 2013. Work to be completed in FY14	Yin
			On-Going			
2012A6	Draft LTRMP completion report: Thirteen years (1998–2012) of aquatic vegetation in Pool 4 of the Upper Mississippi River.	30-Jun-12	30-Apr-14			Moore
		Intend	ed for distribution	on		
Completion	report: LTRMP Aquatic Vegetation Program Review (Heglund; 2007A9) In US		////   200745			

Manuscript: Importance of the Upper Mississippi River Forest Corridor to Neotropical Migratory Birds (Kirsch, 2007APE1) Condor 115(1):115-130

LTRMP Report: Ecological Assessment of High Quality UMRS Floodplain Forests (Chick, Guyon, Battaglia; 2007APE12) In USGS review

LTRMP Technical Report; Experimental and Comparative Approaches to Determine Factors Supporting or Limiting Submersed Aquatic Vegetation in the Illinois River and its Backwaters (2008APE5, Sass) In USGS

LTRMP completion report: FY05-07 data--Analysis and support of aquatic vegetation sampling data in Pools 6, 9, 18, and 19 (2008APE4a; Yin) In USGS Review

Manuscript: Have the recent increases in aquatic vegetation in Pools 5 and 8 been the result of water level management drawdowns, HREPs, or natural fluctuations? (2009APE1a; Yin) In USGS Review

Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
Fisheries Co	omponent	Date				
2013B1	Complete data entry, QA/QC of 2012 fish data; ~1,590 observations					
	a. Data entry completed and submission of data to USGS	31-Jan-13		31-Jan-13		DeLain, Bartels, Bowler, Ratcliff, Gittinger, West, Solomon, Michaels
	b. Data loaded on level 2 browsers; QA/QC scripts run and data corrections sent to Field Stations	15-Feb-13		15-Feb-13		Schlifer
	c. Field Station QA/QC with corrections to USGS	15-Mar-13		15-Mar-13		DeLain, Bartels, Bowler, Ratcliff, Gittinger, West, Solomon, Michaels
	d. Corrections made and data moved to public Web Browser	30-Mar-13		30-Mar-13		Sauer and Schlifer
2013B2	Update Graphical Browser with 2012 data on Public Web Server.	31-May-13		31-May-13		Schlifer, DeLain, Bartels, Bowler, Ratcliff, Gittinger, West, Solomon, Michaels
2013B3	Complete fisheries sampling for Pools 4, 8, 13, 26, the Open River, and La Grange Pool (Table 1)	31-Oct-13		31-Oct-13		Ickes, DeLain, Bartels, Bowler, Ratcliff, Gittinger, West, Solomon, Michaels
2013B4	Draft LTRMP completion report: Summary of data extraction and metadata for archiving of UMRS floodplain disturbance histories. (2008APE1a; Task 1)	30-Sep-08	6-Jun-13	24-May-13		Ickes
2013B5	Final Draft LTRMP fisheries component procedures manual	15-Feb-13		10-May-13		Ratcliff, Gittinger, Ickes
2013B6	Asian carp age and growth: collection of cleithral bones	30-Sep-13		30-Sep-13		Solomon, Michaels
2013B7	Asian carp reduction: delivery of LTRMP WQ and Fisheries Data	30-Sep-13		30-Sep-13		Solomon, Michaels
2013B8	Database increment: Rehabilitation of backwater habitat in select Pool 12 backwaters	30-Sep-13	1-Nov-13			Bowler
2013B9	IDNR Fisheries Management State Report: Fisheries Monitoring in Pool 13, Upper Mississippi River, 2012	30-Jun-13		1-Feb-13		Bowler
2013B10	Database increment: Stratified random day electrofishing samples collected in Pools 16–19	30-Sep-13		30-Sep-13		Bowler
2013B11	Database increment: Stratified random day electrofishing samples collected in Pools 9 and 10	30-Sep-13		28-Aug-13		Bowler
2013B12	Final draft LTRMP report: 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? (2007APE3)	30-Sep-13	8-Nov-13		issue with my figures, and will have to redo them. I am out of town all but two days for the upcoming week. Given that, I will get the revised report to you by COB Nov 22 so that I am sure I can make the needed changes.	Chick
2013B13	Quality assurance results for the UMRR-EMP LTRMP Fish Component: Mapping of the electrical fields on the new fleet of electrofishing boats.	30-Mar-13		6-Mar-13		Ickes, DeLain, Bartels, Bowler, Ratcliff and Gittinger, Solomon and Michaels, West
2013B14	LTRMP fish component hoop net study: results from comparative in situ bait trials seeking comparable substitute bait for LTRMP hoop net sampling. (see 2012B16)	30-Mar-13		27-Mar-13		Ickes, DeLain, Bartels, Bowler, Ratcliff and Gittinger, Solomon and Michaels, West

Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
2013B15	Assorted solicited blogs (N=4) for The Nature Conservancy's Great River Partnership (GRP)	30-Sep-13			No longer applicable as no longer working on TNC GRP	Ickes
2013B16	Draft fact sheet: Tree map tool for visualizing fish data, with example of native versus non-native fish biomass.	30-Sep-13		30-Sep-13		Schlifer, Sauer
2013B17	Shovelnose sturgeon habitat use in the UMR (Data sets, analysis, presentations and manuscript)	30-Sep-13	31-Dec-13			Phelps
2013B18	Evaluation of American eel abundance (Data sets, analysis, presentations and manuscript)	30-Sep-13		20-Aug-13	See eel manuscript below. Email from Q on 8/20/2013	Phelps
2013B19	Channel catfish habitat evaluation (Data sets, analysis, presentations and manuscript)	30-Sep-13	31-Dec-13			Phelps
2013B20	Sauger life history in the lower portion of the Upper Mississippi River (Data sets, analysis, presentations and manuscript)	30-Sep-13		30-Aug-13	Submitted to Prairie Naturalist	Phelps
2013B21	A comparison of methods to estimate shovelnose sturgeon mortality in the Mississippi River adjacent to Missouri (Data sets, analysis, presentations and manuscript)	30-Sep-13		12-Aug-13	North American Journal of Fisheries Management, 33:4, 754-761	Phelps
2013B22	Determining environmental history of three sturgeon species in the Upper, Middle and Lower Mississippi Rivers (Data sets, analysis, presentations and manuscript)	30-Sep-13		20-Aug-13	Draft manuscript completed and submitted to UMESC	Phelps
2013B23	Early Life History and Habitat use of Age-0 Blue Catfish in the Unimpounded Middle Mississippi River (Data sets, analysis, presentations and manuscript)	30-Sep-13		29-Aug-13	Draft manuscript completed and submitted to UMESC	Phelps
2013B24	A pilot evaluation of the commercial and recreational harvest of paddlefish (Polyodon spathula) in Missouri (Data sets, analysis, presentations and manuscript)	30-Sep-13		1-Aug-13	Submitted to the Journal of Applied Ichthyology	Phelps
2013B25	Evaluation of silver carp ages derived from seven bony structures in Midwestern U.S. Rivers: Implications for management of invasive populations (Data sets, analysis, presentations and manuscript)	30-Sep-13		12-Aug-13	North American Journal of Fisheries Management, 33:4, 839-844	Phelps
2013B26	White paper: UMRR-EMP LTRMP Capability Related to Asian Carp	1-Jun-13	31-Dec-13			Hubbell, Chick, Casper, Phelps, Solomon, Lubinski
2013B27	Draft report for review: Empirical response curves for Upper Mississippi River fishes	28-Oct-13		5-Aug-13		Ickes, Richards
2013B29	Refinement of Fish Component Hoop net study: Field sampling Open River (see 2012B16; 2012B14)	31-Oct-13		31-Oct-13		Ickes, Phelps, and West

Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead		
On-Going On-Going								
2006B6	Draft manuscript: Spatial structure and temporal variation of fish communities in the Upper Mississippi River. (Dependent on 2008B9 acceptance into journal)	30-Sep-11	30-Sep-14			Chick		
2008B9	Draft manuscript: Standardized CPUE data from multiple gears for community level analysis (a previous manuscript was submitted and not accepted by the journal, 2006B5; 2008B9 is a revised manuscript)	30-Dec-09	15-Dec-13			Chick		
2012B8	Draft Manuscript: Influence of Asian carp on planktivorous fish	30-Sep-12	31-Dec-13			Phelps		

Intended for distribution

Completion report: LTRMP Fisheries Component collection of six darter species from 1989–2004. (2006B13; Ridings) In USGS review

LTRMP Report: An Evaluation of Macroinvertebrate Sampling Methods For Use In The Open River Reach of The Upper Mississippi River; Kathryn N. S. McCain, Robert A. Hrabik, Valerie A. Barko, Brian R. Gray, and Joseph R. Bidwell (2005C2) In USGS review

LTRMP report: Relationship of juvenile abundance of select fish species to aquatic vegetation in Navigation Pools 4, 8, and 13 of the Upper Mississippi River, 1998-2012 (2007B5; 2009B5; Popp and DeLain) In USGS review (Back from SPN edit)

LTRMP technical report; Setting quantitative fish management targets for LTRMP monitoring (2008APE2; Sass) In USGS review

LTRMP Completion report, compilation of 3 years of sampling: Fisheries (2009R1Fish; Chick et al.) In USGS Review

Manuscript: A Comparison of Methods to Estimate Shovelnose Sturgeon Mortality in the Mississippi River Adjacent to Missouri and Illinois (2013B21; Phelps) North American Journal of Fisheries Management, 33:4, 754-761, DOI: 10.1080/02755947.2013.808291

Manuscript: American eel population characteristics in the Upper Mississippi River (2012B7; Phelps) Accepted for publication

Manuscript: Justin R. Seibert & Quinton E. Phelps. 2013. Evaluation of Aging Structures for Silver Carp from Midwestern U.S. Rivers, North American Journal of Fisheries Management, 33:4, 839-844, DOI: 10.1080/02755947.2013.815670

Manuscript: Age-0 sturgeon habitat associations in the free flowing portion of the Upper Mississippi River (Sara Tripp, Quinton Phelps, and David Herzog; 2012B5) (Submitted to UMESC)

Manuscript: Phelps, Q. E. and D. W. Willis. 2013. Development of an Asian Carp Size Structure Index and Application through Demonstration, North American Journal of Fisheries Management, 33:(2)338-343

Water Qua	ality Component			
2013D1	Complete calendar year 2012 fixed-site and SRS water quality sampling	31-Dec-12	31-Dec-12	Houser, Popp, Fischer, Bierman, Chick, Sass, Hrabik
2013D2	Complete laboratory sample analysis of 2012 fixed site and SRS data; Laboratory data loaded to Oracle data base.	15-Mar-13	15-Mar-13	Yuan, Schlifer
2013D3	1st Quarter of laboratory sample analysis (~12,600)	30-Dec-12	31-Dec-12	Yuan, Kreiling, Manier, Burdis, Giblin, Kueter, L. Gittinger, Cook, Crites
2013D4	2nd Quarter of laboratory sample analysis (~12,600)	30-Mar-13	30-Mar-13	Yuan, Kreiling, Manier, Burdis, Giblin, Kueter, L. Gittinger, Cook, Crites
2013D5	3rd Quarter of laboratory sample analysis (~12,600)	29-Jun-13	29-Jun-13	Yuan, Kreiling, Manier, Burdis, Giblin, Kueter, L. Gittinger, Cook, Crites
2013D6	4th Quarter of laboratory sample analysis (~12,600)	28-Sep-13	28-Sep-13	Yuan, Kreiling, Manier, Burdis, Giblin, Kueter, L. Gittinger, Cook, Crites

Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
2013D7	Complete QA/QC of calendar year 2012 fixed-site and SRS data.					
	a. Data loaded on level 2 browsers; QA/QC scripts run; SAS					Schlifer, Rogala
	QA/QC programs updated and sent to Field Stations with data.	30-Mar-13		30-Mar-13		
	b. Field Station QA/QC; USGS QA/QC.	15-Apr-13		15-Apr-13		Rogala, Popp, Fischer, Bierman, Chick, Sass, Hrabik
	c. Corrections made and data moved to public Web Browser	30-Apr-13		30-Apr-13		Rogala and Schlifer
2013D8	Complete FY13 fixed site and SRS sampling for Pools 4, 8, 13, 26, Open River, and La Grange Pool (Table 1)	30-Dec-13				Houser, Popp, Fischer, Bierman, Chick, Sass, Hrabik
2013D9	WEB-based annual Water Quality Component Update with 2012 data on Public Web Server.	30-May-13		7-May-13		Rogala
2013D10	Final draft LTRMP Completion Report: Changes in substrate, water quality, aquatic vegetation, zooplankton, and fish community from Geomorphic Reach 1 (above Lake Pepin) to Geomorphic Reach 3 (below Lake Pepin). 2010D6	30-Dec-13				Popp, De Lain, Burdis, Moore
2013D11	Database low water velocity measurements collected by the ADV.	28-Sep-13			Removed from SOW	Rogala, Houser, Gray, Giblin
2013D12	Contract report summarizing the distribution of water speed for typically BDL values.	28-Sep-13			Removed from SOW	Rogala, Houser, Gray, Giblin
2013D13	Complete trend analysis of tributary nutrient and sediment data	1-Jun-13		1-Jun-13		Houser, Kreiling
2013D14	Draft report or draft manuscript describing trend analysis results	1-Sep-13		23-Sep-13		Houser, Kreiling
2013D15	Manuscript revised and submitted for publication (2012D10)	1-Aug-13		31-Oct-13		Houser
2013D16	Presentation at national science meeting (pending funds and USGS approval)	1-Sep-13		Travel not approved		Houser
2013D17	Draft manuscript: Relationship between the temporal and spatial distribution, abundance, and composition of zooplankton taxa and hydrological and limnological variables in Lake Pepin	30-Dec-13				Burdis
2013D19	Letter Summary: Assessment of the efficacy of monitoring water quality in the UMRS using a YSI real-time Environmental Monitoring System (Pices Platform) (continued work on 2012D15)	31-Oct-13	30-Jan-14			Chick, L. Gittinger, Lubinski
			On-Going			
2010D6	Draft LTRMP Completion Report: Changes in substrate, water quality, aquatic vegetation, zooplankton, and fish community from Geomorphic Reach 1 (above Lake Pepin) to Geomorphic Reach 3 (below Lake Pepin).	30-Sep-10	30-Sep-13	15-Apr-13		Popp, De Lain, Burdis, Moore

#### Intended for distribution

Completion report: Examining nitrogen and phosphorus ratios N:P in the unimpounded portion of the Upper Mississippi River (2006D9; Hrabik & Crites) (In USGS Review)

LTRMP report: Main channel/side channel report for the Open River Reach. (2005D7; Hrabik) (In USGS Review)

Manuscript: Ecosystem metabolism in the main channel and backwaters of the Upper Mississippi River: the role of submersed vegetation and hydraulic connectivity. (2008D8; Houser et al.) (In USGS Review)

Bulletin Illinois Natural History Survey (changed from LTRMP report): A Decade of Monitoring on Pool 26 of the Upper Mississippi River: Water Quality and Fish Data with Cross Component Analyses Chick et al.; 2005APE26) (Illinois Natural History Bulletin 39(6):323-420)

Scope of Work

Tracking	Milestone	Original Modified Date				Lead
number		Target Date	Target Date	Completed	Comments	
Manuscript:	Nutrient cycling, connectivity, and free-floating plant abundance in backwa	ater lakes of th	e Upper Mississi	ppi River. (2009A	PE3, Houser) (Submitted to River Syste	ems) Accepted 6-20-2013 with minor
revisions						
Manuscript:	Lateral contrasts in nutrients, chlorophyll, and suspended solids within the	Upper Mississ	ippi River Syster	n (2012D10; Hous	ser) (In USGS Review)	
	report, compilation of 3 years of sampling: Water Quality (2009R1WQ; Gib					
•	Temporal evaluation of factors influencing metaphyton biomass, distributi	on and compo	sition within UN	IR backwaters (20	12D12; Giblin et al.) (In USGS Review)	
	/Land Use with GIS Support					
2013LC1	Updates on progress for land cover products listed above.		s reported in the			Robinson
			rcent complete	updated		
		annually.				
Developme	ent of 2010–2011 Land Cover/Land Use GIS Database and Aerial Pho	to Mosaics				
2013V1	Complete 2010/11 LCU databases for UMR Pools 12 and 25	31-Dec-12		31-Dec-12		Robinson, Hoy, Hanson, Langrehr, Ruhser, Nelson
2013V2	Complete 2010/11 LCU databases for UMR Pools 5, 7*, 24	15-Mar-13		15-Mar-13		Robinson, Hoy, Hanson, Langrehr, Ruhser, Nelson
2013V3	Complete 2010/11 LCU databases for UMR Pools 3, 5a,, 21, and 22	15-Jun-13		15-Jun-13		Robinson, Hoy, Hanson, Langrehr, Ruhser, Nelson
2013V4	Complete 2010/11 LCU databases for UMR Pools 10 and 20	31-Aug-13		31-Aug-13		Robinson, Hoy, Hanson, Langrehr, Ruhser, Nelson
			On-Going			
2012AA3	La Grange Pool accuracy assessment analysis	30-Jun-12	30-Oct-12	30-Jan-13		Lubinski, Langrehr, Ruscher, Jakusz
2012LB1	LiDAR Tier 2: Pools 2-7, 8 (p), 9, 11-12, 13 (p), 20, 22-24, St. Croix.  Further process LiDAR data: QA/QC, reclassify data errors, mask water, and smooth contours	30-Dec-12		30-Dec-12		Dieck, Rohweder, Nelson, Fox
Statistical E						
2013E1	Draft completion report: Long-term trend reporting, water quality component	30-Sep-13		30-Sep-13		Gray, Houser, Rogala
2013E2	Final draft completion report: An assessment of trends in water temperature in La Grange Pool (2012E3)	30-Sep-13	30-Dec-13			Gray, Robertson, Rogala, Houser
	temperature in La Grange i our (2012L3)	Intende	ed for distribution	on		
Completion	report that describes methods of estimating variance components from LT			-	Review)	
	Report: Duckweed and filamentous algal associations with submersed aqua					Holland. (2009APE3a) (In USGS Review)
·	Inferring decreases in among-backwater heterogeneity in large rivers usin					
	Report (Switched to manuscript): Gray, B.R., A.M. Ray, J.R. Rogala, M.D. Ho kes of the Upper Mississippi River. Journal of Aquatic Plant Management.					nentous algal levels in contiguous
Completion	report: Summer water temperature in the Upper Mississippi River (2012E2	) ; Gray, Rober	tson, Rogala, Ho	user) (In USGS Re	view)	

Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
Data Mana	gement					
2013M1	Update vegetation, fisheries, and water quality component field data entry and correction applications.	30-May-13		30-May-13		Schlifer
2013M2	Load 2011 component sampling data into Oracle tables and make data available on Level 2 browsers for field stations to QA/QC.	30-Jun-13		30-Jun-13		Schlifer
2013M3	1-2 day workshop on data access, use, and exploration applications.	by May 2013		Travel not funded	I	Sauer, Johnson, Houser, Ickes, Yin, Schlifer
2013M5	Updating Graphical Fish Browser	30-Sep-13		18-Sep-13		Schlifer and Bartels
Landscape	Pattern Research and Application (Not base monitoring)					
2013L1	Draft Manuscript: Curve Fit: A pixel level raster regression tool for landscape modeling and assessment.	30-Sep-13		25-Jun-13	Manuscript published http://onlinelibrary.wiley.com/doi/1 0.1111/2041-210X.12068/abstract	De Jager & Fox
2013L2	Analysis: Effects of flood inundation duration on litter decomposition and nitrogen cycling during different states of forest succession.	30-Sep-13		30-Sep-13		Strauss, Swanson, (UWL) & De Jager
2013L3	Final draft fact sheet: Landscape Ecology on the Upper Mississippi River: lessons learned, challenges, opportunities (2012L2)	30-Jun-13		13-Jun-13		De Jager
2013L4	Graphical Browser with landscape pattern indicators (2012L3)	30-Jun-13		13-Jul-13	http://www.umesc.usgs.gov/data_lib rary/landscape_indicators/backgrou nd.html	De Jager, Rohweder, Schlifer

#### Intended for distribution

Manuscript: De Jager, N.R. and Houser, J.N. 2012. Water mediated connectivity influences patch distributions of total nitrogen (TN), total phosphorous (TP) and TN:TP in the Upper Mississippi River. Freshwater Science (2010OUT2b2) Freshwater Science, 31(4):1254-1272. November 2012

Manuscript: De Jager, N.R. and Thomsen, M. (UWL). 2013. White-tailed deer herbivory increases flood-induced tree mortality in an UMR floodplain forest (2012L5). Forest Ecology and Management 303 (2013) 11-19

Manuscript: De Jager, N.R., Cogger, B.J. (UWL) and Thomsen, M. (UWL). In Press. Winter browse selection by white-tailed deer and implications for bottomland forest restoration in the Upper Mississippi River valley, USA, (2012L4) Natural Areas Journal

Beta-version Graphical Browser. Rohweder, J.J and De Jager, N.R. 2013. Landscape patterns graphical web browser (2012L3). Final version released 20 June 2013. http://umescgisdb03.er.usgs.gov/landscape viewer/indicators.aspx

Fact Sheet: De Jager, N.R. In Prep. Landscape Ecology on the Upper Mississippi River: lessons learned, challenges, opportunities (2012L2; 2013L3).

Manuscript: De Jager, N.R. and T. J. Fox. 2013. Curve Fit: a pixel-level raster regression tool for mapping spatial patterns (2013L1). Methods in Ecology and Evolution; British Ecological Society 2013. 4 pp.

Manuscript: De Jager, N.R. Accepted. The allometry of community level stem size-density distributions in a floodplain forest. Accepted American Journal of Botany.

#### Scope of Work

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Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
<b>Science Pla</b>	nning					
2013XX	Draft questions and background material to A-Team		efore Spring A- meeting.	16-Apr-13		Johnson
2013XY	Draft report: Critical questions for advancing ecosystem understanding and management capability on the UMRS	30-Sep-13	31-Oct-13			Johnson
2013XZ	Final Draft report to EMP-CC	Nov. 2013	31-Dec-13		Progress delayed by federal shutdown. A progress report will be presented at Nov. EMPCC	Johnson
Developme	nt of vital rates to assess the relative health of UMRS mussel resour	ces (FY11 De	ferred)			
2012U1	Summary letter describing results to date from Phase 1, Objective 3	30-Nov-12		21-Dec-12		Ries, Newton, Zigler
Continuing	existing work on survival of mussels using PIT tagging					
2012U2	Summary letter with field-based survival estimates	31-Dec-13			Preliminary letter sent to Corps on 21 Dec. 2012	Newton
Geospatial	Data Upgrades					
2012G1	Projection files (.prj) and metadata files (.xml) will be created for all publically served data (vector and raster).	30-Mar-13		2-Aug-13		Nelson
Quarterly A						
2013QR1	Submittal of quarterly activities	30-Jan-13		30-Jan-13		All LTRMP staff
2013QR2	Submittal of quarterly activities	13-Apr-13		30-Apr-13		All LTRMP staff
2013QR3	Submittal of quarterly activities	13-Jul-13		13-Jul-13		All LTRMP staff
2013QR4	Submittal of quarterly activities	12-Oct-13		4-Nov-13		All LTRMP staff
<b>USACOE</b> Te	chnical Support					
2013QR1	Track progress on UMESC's SOW for the updated Wind Fetch/Wave tool. Coordinate comments from the Corps on the beta version. Promote use of this tool across all districts.	30-Sep-13		30-Sep-13		Potter
2013QR2	Track progress on "Annotated empirical response curves for Upper Mississippi River System fishes" (AHAG 2.0), LTRMP Project 2013B28, under Fisheries Component	30-Sep-13		30-Sep-13		Theiling
2013QR3	Incorporate LTRMP fish data with the St. Louis District's Aquatic Habitat Classification Study.	TBD				McCain
Analysis Te	am ad hoc Indicator Report					
2013QR1	Revise draft report based on partner comments	Feb 2013		3-Apr-13		Hagerty
2013QR2	Draft final report to A-Team for review & endorsement	1-Feb-13		4-Apr-13		Hagerty
2013QR3	Provide read ahead to EMPCC 30 days prior to meeting	29-Apr-13		2-May-13		Hagerty
2013QR4	Present report to UMRR-EMP CC review & endorsement	29-May-13		29-May-13		Hagerty

#### Scope of Work

Tracking number	Milestone	Original Target Date	Modified Target Date	Date Completed	Comments	Lead
Science Ma	nagement	Date			<u>'</u>	
2013FS1	Final Draft Fact Sheet: Taking the Pulse of the River System #3	30-Sep-13		2-May-13	Fact sheet will not be published due to conflicting reviews.	LTRMP staff as needed
	Final Draft Fact Sheet on LTRMP history, accomplishments, and future direction	30-Sep-13		2-May-13	Fact sheet will not be published due to conflicting reviews.	LTRMP staff as needed
2013ER1	Property inventory and tracking	15-Nov-13				LTRMP staff as needed
Documentir	ng the use of the LTRMP Fish Monitoring methodologies outside the	<b>UMRR-EMP</b>	throughout th	e Midwest Area		
2013S1	Complete online survey collection	30-May-13		30-May-13		Solomon, Casper
2013S2	Assess results	30-Sep-13		30-Sep-13		Solomon, Casper
2013S3	Prepare read ahead document for EMP-CC	31-Dec-13				Solomon, Casper
	Present findings to EMP-CC February quarterly meeting and AFS conference (if funding for travel available)	Spring 2014				Solomon, Casper