

## Turkey River Rapid Watershed Assessment (RWA) Work Plan

**OBJECTIVE:** Develop one RWA high quality document for the 8-digit HUC.

Task	Responsible Person(s)	Target Date	Hours	Comments
<b>I. ORGANIZATION</b>				
A. Review progress on work tasks weekly. Send email to Marty Adkins and Dave Beck.	Manternach Adkins	Ongoing		
B. Meet with ASTC-FOs on plan of work and work products.	Adkins	12/31/11	1	
<b>II. COMPILE HUC GIS LAYERS and DATA TABLES</b>				
A. Physical Description layers				
1. Location/Transportation Map	Hadish Phillips	07/15/11	2	Complete
2. Introduction Data (size of HUC and % in each County)		07/15/11	2	Complete
3. Ownership Map and Data Table (Private, Public, Tribal)		07/15/11	4	Complete
4. Land Use/Land Cover Map and Data Table		07/15/11	4	Complete
5. Elevation Map		07/15/11	2	Complete
6. Percent Slope Map		07/15/11	2	Complete
7. Land Capability Class Map and Data Table		07/15/11	4	Complete
8. Precipitation Map		07/15/11	2	Complete
9. Conservation Easements Map		07/15/11	4	Complete
10. Hydric Soil Map		07/15/11	2	Complete

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11. NWI Wetlands Map	Hadish	07/15/11	2	Complete
12. Drainage/Levee District Map	Phillips	07/15/11	2	Complete
13. Common Resource Area (CRA) Map		07/15/11	2	Complete
14. Flood Plain Map (Land forms)		08/19/11	2	50%
15. Utility Maps		08/19/11	2	Complete
16. Sink Hole Map				Complete
17. Shallow Bedrock (Geology Map)	Woida/Thompson	08/19/11	2	90%
18. Cold Water Streams				Complete
19.				
20.				
21.				
<b>B. Water Quality Layers</b>				
1. 303(d) listed lakes and streams map	Phillips	07/15/11	3	Complete
2. Land Cover/Use Map and Data Table (based on a 100 ft. stretch on both Sides of all streams	Phillips	07/15/11	4	Complete
<b>C. Census and Social Data Layers</b>				
1. Population Distribution Map (2010 Census Data)	Phillips	08/19/11	4	50%
2. Size of Farms Data Table (2007 Agricultural Census Data)	Phillips	07/15/11	4	Complete
3. Number of Farms Data Table (2007 Agricultural Census Data)	Phillips	07/15/11	4	Complete

4. Number of Operators Data Table (2007 Agricultural Census Data)	Phillips	07/15/11	4	Complete
<b>D. Resource Concern Layers</b>				
1. T&E Species Data Table and Map	Anderson-Cruz	07/15/11	3	Complete
2. Confined Animal Feeding Operations Map and Data Table, including swine, poultry, dairy, and cattle	Phillips	07/15/11	8	Complete
3. Animal Feeding Operations Map and Data Table, including swine, poultry, dairy, and cattle	Phillips	07/15/11	8	Complete
4. SWAPA + H Concerns Table and Narrative	Manternach	07/15/11	4	Concerns ready for table

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<b>III. DEVELOP ESTIMATES OF FUTURE CONSERVATION NEEDS IN THE WATERSHED</b>				
A. Select one typical treatment unit in each county from all average sized farms existing per county.	Manternach	3/15/11	4 1	completed
B. Work with field staffs to complete conservation practices on TU maps through District Conservationist meetings.	Manternach DCs	3/15/11	16	completed
C. Summarize TU data	Manternach	6/15/11	24	75%
D. Use land cover layer to determine land uses addressed on worksheet.	Manternach	2/15/11	8	completed
E. Work with field staffs to estimate landowner willingness and ability to participate in conservation.	District Conservationists	3/18/11	8	completed
F. Determine targeted resource concerns using existing documentation from previous public meetings and/or consider holding a public meeting.	Manternach DCs Turkey R. Alliance	11/18/11	8	EQUIP concerns have been summarized
G. Update cost and O&M data for use in the Practice Matrix using 2010 data and convert matrix to 2007 Exel Format	Lauver	8/18/11	8	completed

H. Enter data into the Oregon/Iowa matrix worksheet.	Manternach	07/15/11	8	Data needs to be summarized prior to entry
I. Review for quality.	Manternach	11/15/11	4	No progress

Task	Responsible Person(s)	Target Date	Hours	Comments
<b>IV. RUN SOIL AND WATER ASSESSMENT TOOL (SWAT)</b>				
A. Download ERAMS with regional parameters if available.	Phillips	11/30/11	4	ERAMS workshop in October @ ISU
B. Access and format readily-available data sets.	Phillips	11/30/11	4	
C. Run ERAMS model for the Turkey River watershed using regional parameters if available.	Phillips	11/30/11	16	
D. Provide maps and tabular information to be inserted in the RWA document.	Phillips	11/30/11	8	
<b>V. DEVELOP NARRATIVE DATA FOR EACH RWA</b>				
A. Physical Description Narrative	Manternach	12/15/11	2	No progress
1. Common Resource Area (CRA) Descriptions Narrative	Manternach	12/15/11	2	No progress
2. Tons Per Year of Soil Loss: Sheet and Rill, Wind Erosion - Graph/Table (NRI Estimates)	Manternach	12/15/11	4	May not use-too outdated
3. Geology Narrative	Woida	8/15/11	3	completed
B. Water Quality				
1. Water Quality Narrative	Manternach	11/15/11	2	No progress

2.	Water Quality Concerns Data Graph/Table	Manternach	11/15/11	4	Complete
<del>3.</del>	Watershed Projects, Plans, Studies, and Assessments Table	Manternach	11/15/11	8	Complete
4.	Establish a link to the IDNR Water Quality Index.	Manternach	11/15/11	2	Complete
5.	Establish a link to the IDNR Regional Watershed Assessment Tool.	Manternach	11/15/11	2	Complete

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<b>C. Census and Social Data</b>				
1. Census and Social Data Narrative	Manternach	11/15/11	4	No progress
<b>D. Resource Concerns</b>				
1. Resource Concerns Narrative by Land Use	Manternach	11/15/11	4	No progress
2. Focus of Past Seven Years of Progress Narrative	Manternach	11/15/11	8	No progress
3. Resource Concerns Requiring Ongoing Attention Narrative	Manternach	11/15/11	8	No progress
4. Special Considerations Narrative	Manternach	11/15/11	2	No progress
<b>E. Footnotes/Bibliography</b>				
1. Establish and Maintain Bibliography Narrative (References from each Discipline)	Manternach	11/15/11	4	No progress
<b>VI. ASSEMBLE HUC DOCUMENT (Web Based Document)</b>				
<b>A. Editing / Formatting / Web Posting</b>				
1. Narratives, Table Data, and GIS Layers Formatting and Posting.	Kinyon-Anderson Jason Johnson	11/15/11	16 1	No progress

<b>VII. Flood Assessment and Erosion Estimates</b>					
A.	Develop stream reach map	Phillips	08/19/11	2	Will be included in part VII part B
B.	Select floodplain reaches where flood water reach and flow can be restored.	Foreman/McCurdy	11/15/11	16	HEC-RAS analysis
B.1	Identify sub-watershed as a "pilot" watershed for flood mitigation feasibility study	Foreman	9/15/11		Otter Creek is Pilot for flood mitigation/feasibility study
C.	Identify floodplain segments with greatest flood damage risks.	Hadish	9/15/11		Critical Infrastructure GIS layer to be used
C.1	Categorize high damage risk segments into "structural" and "non-structural" groups.	Foreman	9/15/11		Main stem of Turkey and Volga are non-structural, tributaries are structural groups.
D.	Collect crop rotation, tillage system, and other conservation practice information needed to complete soil loss calculations in ERAMS.	Manternach	06/20/11		Waiting for ERAMS
			06/20/11		
E.	Summarize collected data and prepare data for ERAMS.	Manternach	07/26/11		Waiting for ERAMS
F.	Complete soil loss calculations in ERAMS.	Manternach	010/31/11		Waiting for ERAMS
G.	Complete land use, soil loss, land cover, and other layers to be used in completing site analysis.	Manternach	11/15/11		
H.	Complete final report	ESCP Staff	11/15/11		
I.	Present report to project stakeholders	Adkins	12/30/11		
J.	Complete NEPA Analysis	Rogers	11/30/11		
K.	Determine flood frequencies for Turkey River based Working with USGS on 5 USGS gages.	Foreman	9/30/11		Complete

**VIII. PARTNERSHIP REVIEW**

A. Local stakeholder review of the draft RWA	County Engineers County Emergency Managers SWCD CCB	11/15/11	1	
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