



Grantee Information

Redwood-Cottonwood Rivers Control Area -
 Grantee name: JPB (RCRCA) Contact name: Douglas A. Goodrich
 Contact phone number: (507) 637-2142 x 4 Grant award: \$ 17,714.38
 Contact e-mail: douglas.goodrich@racgroup.net
 Project title: RCRCA Middle Minnesota Surface Water Assessment Grant FY13
 Grant budget period: Start date (mm/dd/yyyy): 4/1/2013 End date (mm/dd/yyyy): 6/30/2015
 Project time period covered by this report: Start date (mm/dd/yyyy): 4/1/2013 End date (mm/dd/yyyy): 11/30/2013
 This is Interim/Progress report number: 1 Submittal date(mm/dd/yyyy): 11/27/2013

Section I - Work Plan

- Have you worked with Minnesota Pollution Control Agency (MPCA) Environmental Quality Information System (EQuIS) staff to establish all sites listed in your grant work plan?**
 Yes No Date submitted (mm/dd/yyyy): 4/18/2013
- Was monitoring data for these established sites for the past field season submitted to EQuIS by the November 1 due date?**
 Yes No Last submittal date (mm/dd/yyyy): 10/31/2013
- Describe in detail the monitoring that has been conducted during the past field season. Please be specific by completing Table 1. The table should reflect all sites in your grant work plan, their site IDs, the number of samples to be collected annually according to the work plan and the number of samples actually collected (include QA/QC sampling) during the past field season. If you were not able to meet your sampling obligations this past year, describe in the comments section what sampling was missed, why, and how you will make up the missed sampling events. Refer to the instructions at the end of this report for an example of the completed table.**

Table 1. Monitoring summary

Waterbody ¹	Site ID#	Planned annual sampling		Actual for past season		Comments
		Parameter	No.	Parameter	No.	
Minn-Mankato	S005-628	TSVS	11	TSVS	11	
Minn-Mankato	S005-628	TSS	11	TSS	11	
Minn-Mankato	S005-628	Total P	11	Total P	11	
Minn-Mankato	S005-628	Ammonia - N	11	Ammonia - N	11	
Minn-Mankato	S005-628	TKN	11	TKN	11	
Minn-Mankato	S005-628	NO2+NO3	11	NO2+NO3	11	
Minn-Mankato	S005-628	Sulfate	11	Sulfate	11	
Minn-Mankato	S005-628	Chloride	11	Chloride	11	
Minn-Mankato	S005-628	Hardness	11	Hardness	10	No Hardness duplicate
Minn-Mankato	S005-628	E. coli	9	E. coli	7	Missed two June sample will need 4 June samples next year
Minn-Mankato	S005-662	TSVS	11	TSVS	11	
Minn-Mankato	S005-662	TSS	11	TSS	11	
Minn-Mankato	S005-662	Total P	11	Total P	11	
Minn-Mankato	S005-662	Ammonia - N	11	Ammonia - N	11	
Minn-Mankato	S005-662	TKN	11	TKN	11	
Minn-Mankato	S005-662	NO2+NO3	11	NO2+NO3	11	
Minn-Mankato	S005-662	Sulfate	11	Sulfate	11	

Minn-Mankato	S005-662	Chloride	11	Chloride	11	
Minn-Mankato	S005-662	Hardness	11	Hardness	10	No Hardness duplicate
Minn-Mankato	S005-662	E. coli	9	E. coli	7	Missed two June sample will need 4 June samples next year
Minn-Mankato	S005-627	TSVS	11	TSVS	11	
Minn-Mankato	S005-627	TSS	11	TSS	11	
Minn-Mankato	S005-627	Total P	11	Total P	11	
Minn-Mankato	S005-627	Ammonia - N	11	Ammonia - N	11	
Minn-Mankato	S005-627	TKN	11	TKN	11	
Minn-Mankato	S005-627	NO2+NO3	11	NO2+NO3	11	
Minn-Mankato	S005-627	Sulfate	11	Sulfate	11	
Minn-Mankato	S005-627	Chloride	11	Chloride	11	
Minn-Mankato	S005-627	Hardness	11	Hardness	10	No Hardness duplicate
Minn-Mankato	S005-627	E. coli	9	E. coli	6	Missed two June samples will need 4 June samples next year; missed one July sample will need to sample 3 July samples next year
Minn-Mankato	S005-625	TSVS	11	TSVS	11	
Minn-Mankato	S005-625	TSS	11	TSS	11	
Minn-Mankato	S005-625	Total P	11	Total P	11	
Minn-Mankato	S005-625	Ammonia - N	11	Ammonia - N	11	
Minn-Mankato	S005-625	TKN	11	TKN	11	
Minn-Mankato	S005-625	NO2+NO3	11	NO2+NO3	11	
Minn-Mankato	S005-625	Sulfate	11	Sulfate	11	
Minn-Mankato	S005-625	Chloride	11	Chloride	11	
Minn-Mankato	S005-625	Hardness	11	Hardness	10	No Hardness duplicate
Minn-Mankato	S005-625	E. coli	9	E. coli	7	Missed two June sample will need 4 June samples next year

¹ Identify target watershed site by using asterisk (*).

4. Please describe progress from the past year in successfully carrying out aspects of the grant work plan other than actual field water monitoring. Attach copies of any documents or products that were produced (i.e., brochures, press releases, etc.).

The only activities outside of the field monitoring would be the actual reporting and invoicing.

5. Describe in detail any problems, delays, or difficulties that have occurred in fulfilling the grant work plan. How did you resolve these problems? Were there any change orders and/or amendments to the grant contract and/or work plan? If yes, list.

Few problems apart from testing during high water where the Minnesota River affected the Wabasha Creek site and missed E. Coli sample grabs. The following was noted:

"June: sampled twice, but forgot to get the e-coli sample the first time out and was not able to grab a 2nd e-coli (only) sample this year. Did get a complete regular & e-coli sample for the end of the month. I will need to sample 4 times for e-coli next year, basically once per week? The 6/24/13 sample @ MMWC had some MN River influence. The MN was out of bank and into the valley floodplain. This floodplain water had worked its way over to Wabasha Creek and was flowing into the creek just upstream of sample site (MMWC), but much of the flow was from upstream Wabasha Creek so I took a sample and pictures. Considering the amount of rain that fell before the last week of June, I figured we wouldn't have another chance to get the MMWC isolated in June, that's why I grabbed it on 6/24 even with the MN river contributing.

July: Sampled once for regular samples and 2 e-coli samples collected (at most sites – see below). Regular sample run and e-coli on 7/3 EXCEPT for MMWC, it was affected by Minnesota River high water – backwater conditions, no flow. Did an e-coli run on 7/11/13 and was able to grab the MMWC site for regular sample and e-coli. Have 1 regular sample for each site. Have 2 e-coli samples for 3 of 4 sites (MMWC only has 1 e-coli, due to high water first time out this month) and will collect the 2nd regular sample and 3rd e-coli next week. I plan to grab the 3rd MMWC e-coli during the last week in July."

6. Provide an annual quality assurance assessment that includes the following elements.

- A. Field meter calibration records.
- B. A list of narrative descriptions that highlight specific data points for which adverse field conditions, field meter malfunctions, errors, excess holding time (quantify), lab result qualifiers, or other factors may have affected the results, and would be beneficial to a data user. *For example*, a description might be included of the cross-section location of sampling chosen on a day when a stream is out of banks, and the main flow is inaccessible due to floating debris.
- C. Complete Table 2 presenting quality control sample results with columns showing comparison to lab method detection limit for sampler blanks, and the relative percent difference (RPD) for field duplicates (see the *SWAG Quality Assurance Project Plan*). Please use the "maximum expected relative percent difference" values presented on page 24 in Appendix D of the *Volunteer Surface Water Monitoring Guide* (<http://www.pca.state.mn.us/yhiz8f0>) to assess RPD on field duplicates. Field duplicates with values in excess of the expected RPD may be an indication of high variability within the stream, which is useful for data interpretation. Use the comment field to note RPD or sampler blank results outside of expectations.

Table 2. Quality control sample results and analysis

Date (mm/dd/yyyy)	Site ID#	Analyte	Sampler blanks		Field duplicates			Comments
			Result	Detection limit	Sample result	Duplicate result	RPD	
09/20/2013	S005-628	TSVS			12	14	-15.4	QC samples meet expectations
09/20/2013	S005-628	TSS			16	16	0	QC samples meet expectations
09/20/2013	S005-628	Total P			0.135	0.138	-2.20	QC samples meet expectations
09/20/2013	S005-628	Ammonia - N			<0.16	<0.16	0	QC samples meet expectations
09/20/2013	S005-628	TKN			0.5	0.6	-18.2	QC samples meet expectations
09/20/2013	S005-628	NO2+NO3			0.79	0.81	-2.50	QC samples meet expectations
09/20/2013	S005-628	Sulfate			30.6	30.3	0.99	QC samples meet expectations
09/20/2013	S005-628	Chloride			11.4	11.3	0.88	QC samples meet expectations
09/20/2013	S005-662	TSVS			13	12	8.00	QC samples meet expectations
09/20/2013	S005-662	TSS			30	26	14.3	QC samples meet expectations
09/20/2013	S005-662	Total P			0.104	0.104	0	QC samples meet expectations
09/20/2013	S005-662	Ammonia - N			<0.16	<0.16	0	QC samples meet expectations
09/20/2013	S005-662	TKN			0.5	0.6	-18.2	QC samples meet expectations
09/20/2013	S005-662	NO2+NO3			0.36	0.36	0	QC samples meet expectations
09/20/2013	S005-662	Sulfate			158	159	-0.63	QC samples meet expectations
09/20/2013	S005-662	Chloride			7.5	7.6	-1.32	QC samples meet expectations
09/20/2013	S005-627	TSVS			8	11	-31.6	Duplicate exceeds 30% method variability expectation. No contamination detected.
09/20/2013	S005-627	TSS			9	13	-36.4	Duplicate exceeds 30% method variability expectation. No contamination detected.
09/20/2013	S005-627	Total P			0.118	0.118	0	QC samples meet expectations
09/20/2013	S005-627	Ammonia - N			<0.16	<0.16	0	QC samples meet expectations
09/20/2013	S005-627	TKN			0.6	0.5	18.2	QC samples meet expectations
09/20/2013	S005-627	NO2+NO3			<0.2	<0.2	0	QC samples meet expectations
09/20/2013	S005-627	Sulfate			145	146	-0.69	QC samples meet expectations
09/20/2013	S005-627	Chloride			60	59.8	0.33	QC samples meet expectations
09/20/2013	S005-625	TSVS			6	10	-50.0	Duplicate exceeds 30% method variability expectation. No contamination detected.
09/20/2013	S005-625	TSS			6	10	-50.0	Duplicate exceeds 30% method variability expectation. No contamination detected.
09/20/2013	S005-625	Total P			0.029	0.03	-3.39	QC samples meet expectations
09/20/2013	S005-625	Ammonia - N			<0.16	<0.16	0	QC samples meet expectations
09/20/2013	S005-625	TKN			0.7	0.5	33.3	Duplicate exceeds 30% method variability expectation. No contamination detected.
09/20/2013	S005-625	NO2+NO3			2.17	2.19	-0.92	QC samples meet expectations
09/20/2013	S005-625	Sulfate			215	215	0	QC samples meet expectations

Section II - Participants in Project

7. Have there been any changes in project staff or contractors or has participation by companies or units of government changed? How many volunteers participated in monitoring during the past field season? Complete Table 3 by listing the contact information for your volunteers. Once your grant ends, the MPCA Citizen Lake/Stream Monitoring Program coordinators plan to contact these volunteers to see if they are interested in continuing to collect transparency data at their assigned sites.

None

Table 3. Volunteer contact information

Tennessee warning: Pursuant to Minn. Stat. § 13.43, some of the information that you are being asked to provide in the above table is classified as private data on individuals as described in Minn. R. 1205.0200, subp. 9, Minn. R. 1205.0400 and Minn. Stat. § 13.02, subd. 12 (home contact information). You are not legally required to provide this private data, but if you do the MPCA plans to use this information to invite volunteers to join their Citizen Lake/Stream Monitoring Programs (CMPs) after your grant project has ended. All private volunteer information is kept in a secure location and is never released to anyone outside of our SWAG or CMPs.

Organization name: N/A

Grantee contact: N/A

Telephone number: N/A

Waterbody	Site ID#	Contact name	Address	Telephone number	E-mail address
N/A	N/A	N/A	N/A	N/A	N/A

8. Please describe training that you and/or an outside trainer provided to your project participants prior to the start of the past field season. Include details on what the training covered and who administered this training.

April, 2013 - Field staff met with project management for a summary of field techniques and an overview of site placement and operation procedures for the individual sites. This meeting included

Section III - Budget

9. Fill in Table 4 (Project expenditures). List any changes to your original budget (change orders or amendments) that were made.

None

Table 4. Project expenditures

Project budget	MPCA grant funds available	Total MPCA funds expended	Total remaining balance	Percent of budget expended
Objective 1: (Title) Stream Monitoring				
Task: Personnel Tech 1	\$2,000.00	\$1,225.00	\$ 775.00	61 %
Task: Personnel Tech 3	\$300.00	\$200.00	\$ 100.00	67 %
Task: Lab Analysis	\$7,968.80	\$6,195.80	\$1,773.00	78 %
Task: Mileage	\$865.58	\$522.95	\$ 342.63	60 %
Objective 2: (Title) Data Management				

Task: Personnel Tech 1	\$500.00	\$250.00	\$ 250.00	50 %
Task: Personnel Tech 3	\$300.00	\$150.00	\$ 150.00	50 %
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Objective 3: (Title) Reporting, Invoicing, and Oversight				
Task: Personnel Tech 1	\$500.00	\$307.70	\$ 192.30	62 %
Task: Personnel Tech 2	\$2,280.00	\$285.00	\$1,995.00	13 %
Task: Personnel Tech 3	\$3,000.00	\$1,642.83	\$1,357.17	55 %
Task:			\$ 0.00	%
Objective 4: (Title)				
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Objective 5: (Title)				
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Objective 6: (Title)				
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Column Total	\$17,714.38	\$10,779.28	\$6,935.10	61 %