

SWAG Interim Report

Surface Water Assessment Grant (SWAG)

Appendix B

Doc Type: Grant Application

Instructions on Page 4

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Gra	intee Informati	ion					
Gran	ntee name: <u>Lac qu</u>	i Parle-Yellow	Bank Watershed [District	Contact na	me: _	Mary Homan
Con	tact phone number:	320-598-3319)		Grant awa	ard: _	\$ 101,916.37
Con	tact e-mail: <u>mary.h</u>	oman@lqpco.d	com				
Proj	ect title: <u>Lac qui Pa</u>	arle/Minnesota	River Headwaters	Monitori	ng		
Gra	nt budget period:	Start date (m	m/dd/yyyy): <u>3/16/2</u>	015		End d	ate (mm/dd/yyyy): <u>3/15/2017</u>
-	ect time period covere		•		yy): <u>3/16/2015</u>		End date (mm/dd/yyyy): 12/24/2015
This	is Interim/Progress r	eport number:	_1		Submitta	l date(mm/dd/yyyy): 12/24/2015
Sec	tion I - Work P	lan					
1.	Have you worked (EQuIS) staff to es					viron	mental Quality Information System
	⊠ Yes □ No	Date submitte	ed (mm/dd/yyyy):	5/4/2015	<u>;</u>		
2.	Was monitoring d	ata for these e	established sites	for the p	oast field seas	on su	bmitted to EQuIS by the November 1 due
	⊠ Yes □ No	Last submitta	l date (mm/dd/yyyy)	: 11/1/	2015		
3.	If applicable, were stream monitoring					ed acc	ording to directions specified in the
	⊠ Yes □ No	-	ed (mm/dd/yyyy):	-	-		
4.	completing Table be collected annu sampling) during describe in the co events. Refer to the	1. The table s ally according the past field s mments secti ne instructions	hould reflect all s to the work plan season. If you we on what sampling s at the end of thi	ites in y and the ere not a g was mi	our grant work number of sa ble to meet yo issed, why, an	k plan Imple: Iur sai Id hov	eld season. Please be specific by their site IDs, the number of samples to s actually collected (include QA/QC mpling obligations this past year, by you will make up the missed sampling the completed table.
	Table 1. Monitor	ing summary			A -41 &	4	
			Planned anno sampling	uai	Actual for pa	ast	
	Waterbody	Site ID#	Parameter	No.	Parameter	No.	Comments
			DO, pH, temperature, Conductivity,		DO, pH, temperature, Conductivity,		
			Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Suifate		Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3,		

12

10

Chloride.

CaCO3,

DO, pH,

temperature,

E.coli

Hardness as

11

10

No sample blank was taken in July

July 9 field meter did not record DO or pH

Chloride.

CaCO3,

DO, pH,

temperature,

E.coli

S008-463

S008-461

Hardness as

LQP River

Trib to LQP River

		Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli	11 10	Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli	11 10	July 9 field meter did not record DO or pH
Florida Creek	S008-462	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	July 9 field meter did not record DO or pH
Tionua Creek	3000-402	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	July 9 lielu liletei diu liot lecolu DO oli pili
LQP River WB	S008-468 S008-464	E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate,	10	E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate,	10	July 9 field meter did not record DO or pH July 9 field meter did not record DO or pH

		Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	
		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
LQP River WB	S003-086	E.coli DO, pH,	10	E.coli DO, pH,	10	July 9 field meter did not record DO or pH
		temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
Florida Creek	S003-088	E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	July 9 field meter did not record DO or pH
County Ditch 5	S008-467	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH

		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
LQP River SB	S003-085	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH
		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
Lazarus Creek	S004-552	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH
Trib to LQP River	S008-465	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P,	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P,	11 10	Missed one sampling event in Mid-July stream appeared dormant-will sample mid- July 2016 July 9 field meter did not record DO or pH
Judicial Ditch 4	S003-381	Ammonia-N,		Ammonia-N,		July 9 field meter did not record DO or pH

		TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	
LQP River WB	S004-554	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as	11 10	July 9 field meter did not record DO or pH
County Ditch 4	S001-841	CaCO3, E.coli	11 10	CaCO3, E.coli	11 10	July 9 field meter did not record DO or pH
Ten Mile Creek	S008-466	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	July 9 field meter did not record DO or pH

LQP River	S000-143	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli Chlorophyll corrected for pheophytin	11 10 8	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli Chlorophyll corrected for pheophytin	11 10 8	July 9 field meter did not record DO or pH
		DO, pH, temperature,		DO, pH, temperature,		
		Conductivity,		Conductivity,		
Trib to Yellow		Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
Bank SF	S008-476	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH
		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	E. coli sample bottle leaked out contents in cooler on July 22, 2015. Will collect extra sample in July, 2016
Yellow Bank SF	S008-473	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH

		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
Yellow Bank NF	S000-158	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH
		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
Yellow Bank SF	S003-090	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH
		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli Chlorophyll	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli Chlorophyll	11 10	
Yellow Bank River	S008-469	corrected for pheophytin	8	corrected for pheophytin	8	July 9 field meter did not record DO or pH

		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	
Five Mile Creek	S008-472	E.coli	10	E.coli	10	July 9 field meter did not record DO or pH
		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	E. coli sample bottle leaked out into cooler on June 11, 2015. Will collect extra sample in June 2016
Stony Run Creek	S008-471	E.coli	10	E.coli	9	July 9 field meter did not record DO or pH
Meadow Brook Creek	S008-470	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P,	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P,	11 10	July 9 field meter did not record DO or pH
Fish Creek	S002-881	Ammonia-N,		Ammonia-N,		July 9 field meter did not record DO or pH

		TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, E.coli	11 10	TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	
Trib to Big Stone Lake	\$006-557	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	July 9 field meter did not record DO or pH
Lanc		DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3,	11	outy o licia moter dia not record 20 or pri
Little MN River	S000-732	E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as	10	E.coli DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as	10	July 9 field meter did not record DO or pH
Trib to Marsh Lake	S008-474	CaCO3, E.coli	11 10	CaCO3, E.coli	11 10	

Emily Creek	S008-475	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	DO, pH, temperature, Conductivity, Physical Appearance, Recreational Suitability, Secchi tube TSVS, TSS, Total P, Ammonia-N, TKN, NO2+NO3, Sulfate, Chloride, Hardness as CaCO3, <i>E.coli</i>	11 10	July 9 field meter did not record DO or pH
Unnamed	06-0060- 00-201	Total Phosphorus, Chlorophyll-a Secchi	5	Total Phosphorus, Chlorophyll- a Secchi	5	
Shible	76-0141- 00-202	Total Phosphorus, Chlorophyll-a Secchi	5	Total Phosphorus, Chlorophyll- a Secchi	5	
Del Clark	87-0180- 00-201	Total Phosphorus, Chlorophyll-a Secchi	5	Total Phosphorus, Chlorophyll- a Secchi	5	

5. Please indicate if there were any noteworthy events or conditions that may have affected the parameter results. Some examples may be upstream construction, drought or low flow conditions, feedlot activity, beaver impoundments, or waterfowl management areas.

Table 2. Monitoring conditions

Waterbody	Site ID #	Comments
LqP River	S008-463	06-22-15 a 2-3 inch rain-high flows/turbid
		09-21-15 cattle in stream upstream
Trib to LqP River	S008-461	06-22-15 rain event in a.m. high flow/turbid
Florida Creek	S008-462	06-22-15 rain event in a.m. high flows/turbid
LqP River WB	S008-468	8-27-15 cattle in stream upstream
LqP SB	S003-085	06-22-15 3 inch rain upstream sampled 6-23
Trib to LqP River	S008-465	6/23 & 7/2 excessive algae
Emily Creek	S008-475	6/2, 7/23 & 9/22 cattle in stream
Yellow Bank North Fork	S000-158	5/22, 6/3, & 6/11 cattle in stream
Five Mile Creek	S008-472	5/21 Out-of-banks
Stony Run Creek	S008-471	5/21 out-of banks; 7/24 cattle in stream

- 6. Please describe progress from the past year in successfully carrying out aspects of the grant work plan.
 - Objective 1 Lake and Stream Monitoring. All tasks A -F were completed. Tasks A and B included selection and becoming familiar with all monitoring sites. Task C included prepartion of QAPP before monitoring began. Project, Laboratory and Station Establishment forms were submitted into MPCA. Task D, E and F included purchasing equipment needed for monitoring, actual monitoring and the completion of field and lab sheets. Objective 2 Data Management. Data is being prepared for EQuIS entry. Stream Site photographs were labeled as described in the IWM Streams SOP. Objective 3 Project Management. Expenses were tracked and invoices submitted on quarterly basis. Reporting is being completed as described in workplan. A site visit with MPCA Project Manager was held on April 7, 2015. Objective 4 Volunteer Recruitment. News releases in local newspapers, presentations at local service organizations and a radio program were used to recruit volunteer monitors. One new volunteer was signed up to monitor on Del Clark Lake. In Table 3. Quality control sample results and analysis reflects reported values of relative percent difference (RPD) in excess of the expected RPD.
- 7. Describe in detail any problems, delays or difficulties that 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.

The sampler blanks at one stream site in July was not completed correctly and will need to be done in 2016. On July 9, 2015 the pH probe quit reading units and dissolved oxygen probe lens was cracked and read "out of range". Both probes were replaced in time for next round of samples. We did three change orders. Change Order 1 and 2 added subcontractors from the Minnesota Conservation Corp to assist with monitoring, the third change moved \$300 from per diem to equipment.

- 8. 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 3. Quality control sample results and analysis

			Sampler blanks Field d			plicates		
Date (mm/dd/yyyy)	Site ID#	Analyte	Result	Detection limit	Sample result	Duplicate result	RPD	Comments
07/01/2015	S008- 463	TKN			1.15	1.73	40.3	Duplicate exceeds 30% variability expectation.
07/01/2015	S008- 461	Ammonia (N)			0.047	0.055	15.7	Duplicate exceeds 10% variability expectation
07/01/2015	S008- 461	NO2+NO3			1.33	1.13	16.3	Duplicate exceeds 10% variability expectation
07/01/2015	S003- 086	Ammonia (N)			0.07	0.061	13.7	Duplicate exceeds 10% variability expectation
07/01/2015	S003- 088	TSS			14	50	112.5	Duplicate exceeds 30% variability expectation
07/01/2015	S008- 467	Ammonia (N)			.113	.133	16.3	Duplicate exceeds 10% variability expectations
07/01/2015	S008- 476	Ammonia (N)			.042	.049	15.4	Duplicate exceeds 10% variability expectation
07/01/2015	S008- 473	TKN			1.24	.413	100.1	Duplicate exceeds 30% variability expectations
07-02-2015	S008- 471	Ammonia (N)			.062	.042	38.5	Duplicate exceeds 10% variability expectations
07-02-2015	S008- 470	Ammonia (N)			.111	.124	11.1	Duplicate exceeds 10% variability expectations
07/02/2015	S008-	Ammonia			.057	.048	17.1	Duplicate exceeds 10%

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	474	(N)				variability expectations
07/02/2015	S008- 469	Chlorophyll-	2	3	40	Duplicate exceeds 30% variability expectations

Section II - Participants in Project

9. 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.

No changes with project staff or contractors has occurred. Two Minnesota Conservation Corp Apprentices, Taylor Malone and Camille Perry, woking with local SWCD's volunteered with this project.

One lake monitor and three citizen monitors participated in 2015.

Table 4. Volunteer contact information

Tennessen 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: LQP-Yellowbank CWP

Grantee contact: Mary Homan Telephone number: 320-598-3319

Waterbody	Site ID#	Contact name	Address	Telephone	E-mail address
Del Clark Lake		Pat Stanley	109 Lac qui Parle Ave. N, Canby, MN 56220		
Cobb Creek	S001- 775	Burton Hendrickson	2240 160 th St. Madison, MN 56256		Burton.Hendrickson@mn.usda.gov
Canby Creek		Eugene Eilers	108 East View Rd, Canby, MN 56220		eeilers@frontiernet.net
County Ditch 34	S001- 843	Jeff & Dustin Johnson	2195 361 st Ave, Montevideo, MN 56265		

10. 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.

Secchi disk training was provided on site for new monitors by Mary Homan, program coordinator. One new monitor ended up sick this summer and was unable to do any monitoring. Other monitors have been volunteers for several years and no additional training was provided.

Section III - Budget

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

4-7-15 Hach Company (m	ionitoring equipment)	\$4,	,191.19
6-2-15 Hach company (6	equipment supplies)	\$	314.67
6-2-15 RMB Environmental	Lab (sample analysis)	\$3	3,770.00
6-2-15 Mary A Homan	(travel reimbursement)	\$	673.79
7-7-15 RMB Environmental	Lab (sample analysis)	\$8	3,450.72

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7-7-15 Mary A Homan	(travel reimbursement	\$1	,973.41
7-7-15 Taylor Melone	(travel reimbursement)	\$	142.60
7-9-15 Upper MN Rive	r Watershed District (Staff 3)	\$	202.32
8-4-15 LQP-YB UP (Re	eturn Postage for MPCA Banners)	\$	24.30
8-4-15 RMB Environm	ental Labs (sample Analysis)	\$13	,321.00
8-4-15 Mary A Homan	(travel reimbursement)	\$1	,626.69
9-1-15 RMB Environm	ental Lab (sample analysis)	\$7	,260.00
9-2-15 Upper MN Rive	r Watershed District (Staff 3)	\$	252.90
9-2-15 Mary A Homan	(travel reimbursement)	\$1	,848.61
10-6-15 Mary A Homa	n (travel reimbursement)	\$	954.49
10-6-15 Upper MN Riv	er Watershed District (Staff 3)	\$	492.02
10-6-15 RMB environn	nental Labs (sample analysis)	\$13	3,418.00

Table 5. Project expenditures

Project hudget	MPCA grant	Total MPCA funds	Total remaining	Percent of budget
Project budget	funds available	expended	balance	expended
Objective 1: (Title) Lake and Stream Monitoring	#07.504.00	047.400.00	\$40.050.00	0/
Task: Staff 1 @ \$36.23	\$27,534.80	\$17,480.98	\$10,053.82	%
Task: Staff 3 @25.29	\$1,340.37	\$947.24	\$ 393.13	%
Task: Travel Reimbursement	\$12,885.75	\$7,219.59	\$5,666.16	%
Task:			\$ 0.00	%
Objective 2: (Title) Data Management				
Task: Staff 1 @ \$36.23	\$1,086.90	\$978.21	\$ 108.69	%
Task: Staff 2 @ \$37.53	\$202.32		\$ 202.32	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Objective 3: (Title) Project Management				
Task: Staff 1 @ \$36.23	\$905.75	\$724.61	\$ 181.14	%
Task: Staff 2 @ \$37.53	\$562.95	\$375.30	\$ 187.65	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Objective 4: (Title) Volunteer Recruitment				
Task: Staff 1 @ \$36.23	\$1,268.05	\$163.04	\$1,105.01	%
Task: Staff 3 @ \$25.29	\$632.25		\$ 632.25	%
Task: Travel Reimbursement	\$143.75		\$ 143.75	%
Task:			\$ 0.00	%
Objective 5: (Title)				
Task: Laboratory (Stream)	\$48,783.02	\$45,643.72	\$3,139.30	%
Task: Laboratory (Lakes)	\$1,056.00	\$576.00	\$ 480.00	%
Task: Shipping	\$500.00	\$24.30	\$ 475.70	%
Task: Equipment and Supplies	4,486.46	\$4,486.46	\$ 0.00	%
Objective 6: (Title)				
Task: Per Diem	\$528.00		\$ 528.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Task:			\$ 0.00	%
Column Total	\$101,916.37	\$78,619.45	\$23,296.92	%