

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_04_11
Name: NOR 4_11 - Stream C monitoring at Flambeau mine site
Type: Targeted Monitoring
Subtype: New
Status: ACTIVE
Start Date: 07/01/2010
End Date: 06/30/2011
Purpose: Project Description: Recent monitoring at the Flambeau mine site near Ladysmith (Rusk Co.) has shown that acutely toxic concentrations of copper and zinc are regularly present in the runoff entering Stream C. Stream C is an intermittent tributary of the Flambeau River. Monitoring is proposed to assess the impacts of this toxicity to Stream C and the Flambeau River near the mouth of Stream C. The monitoring would also further identify the source areas of the metals found. Water samples from 10 sites on 3 dates (5 dates for 2 of the sites) would be collected and tested for metals and other parameters (see lab budget). A broad range of metals would be tested on 2 dates and a more limited range of metals would be tested on the other dates. Sediment samples from 8 sites would be tested for metals and other parameters (see lab budget). Macroinvertebrate samples would be collected from 5 sites (2 per site). Fish surveys would be done at 2 sites on 2 dates.
Objective: Project Justification: The site needs to be evaluated for 303d inclusion since water quality standards for copper and zinc are being exceeded.
Comments: Project Category 2: 303(d) Impaired Waters List
Outcome: Performance Measures: These are milestones that will be reported on in the Division Quarterly Report. Please estimate dates in a manner that encourages success.
 1) Number of sample sites associated with the project.
 19
 2) Number of sampling events associated with project.
 9
 3) Estimated date when sample collection will be complete.
 June 30, 2011
 4) Estimated date when all data will be entered into appropriate database.
 Dec. 31, 2011
 5) Estimated date when final report will be complete.
 April 30, 2012

Project Statuses

Date	Reported By	Status	Comments
03/04/2010	MOLLI MACDONALD	Proposed	

Project Status Detail

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	19
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	10
3. Proposed Dates for Sample Collection	July 1, 2010 - June 30, 2011
4. List applicable databases and who will enter data?	SLH will enter lab and field test results. UW-SP will enter bug results. Craig Roesler will enter fish results and final report.
5. Did you receive competitive projects funding during FY 2010?	Yes
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	Projects are completed and reports are written to the extent possible. Some monitoring is still ongoing.
7. Reviewer Notes: Identify questions or issues with project (use during review period)	
8. Reviewer Decision: Is this project recommended for funding?	

People

Name	Role	Status	Start Date	End Date	Organization	Comments
KLOSIOWSKI, JAMES M	TEAM_MEMBER	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	

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Name	Role	Status	Start Date	End Date	Organization	Comments
ROESLER, CRAIG P	COORDINATOR	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	

Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor or Propose 303(d) Listing	<p>Water sampling sites are:</p> <ol style="list-style-type: none"> 1. biofilter outflow 2. site SW-C8 (existing site) 3. site SW-C3 (existing site) 4. north ditch along Copper Park Lane 5. site SW-C1 (existing site) 6. mouth of east branch of stream C (a runoff reference site) 7. mouth of stream C (no WBIC) 8. Flambeau River above stream C mouth (WBIC 2225000) 9. Flambeau River below stream C 10. mouth of intermittent reference stream in Sec. 19 southwest of mine site (WBIC 5006202) <p>Sediment sampling sites are:</p> <ol style="list-style-type: none"> 1. upper Stream C sites (3 samples) 2. lower Stream C sites (3 samples) 4. intermittent reference stream in Sec. 19 (2 samples) <p>Macroinvertebrate sites:</p> <ol style="list-style-type: none"> 1. lower end of Stream C (2) 2. lower end of intermittent reference stream in Sec. 19 (2) 3. Flambeau R. above Stream C (2) 4. Flambeau R. below Stream C (2) 5. Flambeau R. above reference stream mouth (2) 6. Flambeau R. below reference stream mouth (2) <p>Fish survey sites:</p> <ol style="list-style-type: none"> 1. lower end of stream C (2 dates) 2. lower end of intermittent reference stream in Sec. 19 (2 dates) 	07/01/2010	06/30/2011	PROPOSED

Monitoring Stations

Station I	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
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Lab Account Codes

Account Code	Description	Start Date	End Date
WT117	STREAMS/RIVERS SPECIAL PROJECT	06/03/2010	06/30/2011

Forms

Form Code	Form Name
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Methods

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Method Code	Description
Fieldwork Events	

Start Date	Status	Field ID	Station ID	Station Name
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Documents				
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Title	Description	Author	Published	Comments
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Budget					
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Code	Description	Quantity	Units	Unit Cost	Total Cost
FTE	FTE Hours	164	Hours	\$0.00	\$0.00
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00
LTE FR	LTE Fringe				\$0.00
LTE IND	LTE Indirect				\$0.00
LTE TOT	LTE Total Cost				\$0.00
SUPPLY	Supplies	7		\$25.00	\$175.00
MILEAGE	Mileage	1800	Miles	\$0.37	\$666.00
MEAL	Meals	13	Meals	\$9.00	\$117.00
LODGE	Lodging				\$0.00
TRAVEL	Travel Total				\$783.00
BUG	Bug Contracts	12		\$148.00	\$1,776.00
OTHER	Other Contracts				\$0.00
EQUIP	Equipment				\$0.00
USGS	USGS Costs				\$0.00
TOTAL	Total Cost (excludes SLOH)				\$2,734.00

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I150IR1	ARSENIC, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	20	\$13.66	\$273.20
I150IS1	ARSENIC, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I220IR1	CADMIUM, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	20	\$13.66	\$273.20
I220IS1	CADMIUM, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I230IR1	CALCIUM, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	34	\$13.66	\$464.44
I260IR1	CHROMIUM, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	20	\$13.66	\$273.20
I260IS1	CHROMIUM, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I310IR1	COPPER, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	34	\$13.66	\$464.44
I310IS1	COPPER, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I322ID1	DIG 730.1, ICP, LIQ, EXCEPT AS/SE/AG (SW846 3010A)	INORGANIC CHEMISTRY	34	\$23.24	\$790.16
I322IS1	DIG 750.1, ICP, SOLIDS (SW846 3050B)	INORGANIC CHEMISTRY	8	\$22.34	\$178.72
I340IR1	HARDNESS (AS CaCO3), TOTAL REC, CALC (SM 2340B)	INORGANIC CHEMISTRY	34	\$5.37	\$182.58
I362BLD	ION CHROMATOGRAPHY, SULFATE	INORGANIC CHEMISTRY	34	\$17.88	\$607.92
I370IR1	IRON, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	34	\$13.66	\$464.44
I370IS1	IRON, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I380IR1	LEAD, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	20	\$13.66	\$273.20
I380IS1	LEAD, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I390ISR	MAGNESIUM, ICP, SOLID, TOTAL REC (EPA 200.7)	INORGANIC CHEMISTRY	34	\$21.45	\$729.30
I400IR1	MANGANESE, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	34	\$13.66	\$464.44

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I400IS1	MANGANESE, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I430XS1	MERCURY, @60 DEG C, AA VAPOR, DRY WT (SW846 7471A)	INORGANIC CHEMISTRY	8	\$50.05	\$400.40
I430ZDT	MERCURY, ATOMIC FLUORESCENCE (EPA 1631)	INORGANIC CHEMISTRY	20	\$80.00	\$1,600.00
I480IR1	NICKEL, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	20	\$13.66	\$273.20
I480IS1	NICKEL, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I495ELT	PARTICLE SIZE (UW-EXT SOILS LAB; NON-CERTIFIED)	INORGANIC CHEMISTRY	8	\$51.84	\$414.72
I495PSD	SAMPLE PREP/HANDLING I	INORGANIC CHEMISTRY	8	\$26.82	\$214.56
I495PSM	PREP MERCURY AT 60 DEG.C	INORGANIC CHEMISTRY	8	\$5.37	\$42.96
I495ZBC	CLEAN BOTTLE PREP - MERCURY	INORGANIC CHEMISTRY	20	\$25.03	\$500.60
I640BST	PERCENT VOLATILE SOLIDS (SM 2540G)	INORGANIC CHEMISTRY	8	\$10.03	\$80.24
I640HST	PERCENT SOLIDS (SM 2540G)	INORGANIC CHEMISTRY	8	\$30.39	\$243.12
I670IR1	ZINC, TOTAL REC, ICP (SW846 6010B)	INORGANIC CHEMISTRY	34	\$13.66	\$464.44
I670IS1	ZINC, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	8	\$21.45	\$171.60
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	34	\$6.36	\$216.24

Total SLOH Lab Costs: \$11,434.12