

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_02_CMP11

Name: Spirit and North Spirit Lakes 303d Evaluation [NOR_02_11]

Type: TMDL/303d Projects

Subtype: Determine Pollutants or Impairments

Status: COMPLETE

Start Date: 7/1/2010

End Date: 6/30/2011

Purpose: Spirit and North Spirit Lakes (Price Co.) have average total phosphorus concentrations of about 70 ug/l which greatly exceeds the WisCALM threshold of 40 ug/l for 303d listing. It is suspected that naturally occurring groundwater and wetland drainage TP concentrations are a substantial cause of the high lake TP.. Monitoring will be done to determine if this is the case. Monitoring includes:

1. Four stream sites sampled for TP on 5 dates. Estimated flow, D.O., temp., and pH will be measured.
2. Twelve residential wells will be sampled for TP to assess groundwater TP.
3. TP and CHL samples on 5 dates from Hultman Lake. This lake is in the Spirit Lakes watershed, and is minimally impacted by development and so would reflect background conditions. SD, D.O., temp., and pH would also be measured.
4. Sediment cores from Spirit and North Spirit Lake will be analyzed by Paul Garrison. Surficial and pre-development sediment layers will be examined to compare existing and pre-development lake conditions.
5. The watershed will be delineated and land use will be assessed.
6. A report of the findings will be made.

Objective: Spirit and North Spirit Lakes are being evaluated for inclusion on the 303d list. The project will determine if inclusion is appropriate, or if naturally occurring conditions are the primary cause of the lakes' high TP concentrations.

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. 7
- 2) Number of sampling events associated with project. 5
- 3) Estimated date when sample collection will be complete. Sept. 30, 2010
- 4) Estimated date when all data will be entered into appropriate database. December 31, 2010
- 5) Estimated date when final report will be complete. May 1, 2010

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Roesler, Craig P	COORDINATOR	COMPLETE	7/1/2010	6/30/2011	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
3/4/2010	MOLLI MACDONALD	Proposed	
12/7/2010	MOLLI MACDONALD	Progress: 25-50% Complete	This project looks to be on schedule although there are quite a few field events still scheduled that go back to August. Could these be waiting on results or do these need to be deleted? Need January status update.

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2/1/2011	Craig Roesler	Progress: 50-75% Complete	All field work is complete. Atypical runoff in 2010 resulted in abnormally high TP concentrations in streams. I've proposed a continuation project to extend stream sampling into 2011 to try to get more representative stream samples to allow TP modeling. Preliminary report work will be done this winter, but a final report will wait until 2011 data is available.
4/11/2011	Craig Roesler	Complete	Field work complete and report entered. 2010 data was found to be useable, so plans for continued monitoring in 2011 have been dropped.

Project Status Detail

Answer Set: DEFAULT

Question	Answer
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- | | |
|--|--|
| 1. Number of Sample Sites (Enter the station IDs if you know them). | |
| 2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project). | |
| 3. Proposed Dates for Sample Collection | |
| 4. List applicable databases and who will enter data? | |
| 5. Did you receive competitive projects funding during FY 2010? | |
| 6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not? | |
| 7. Reviewer Notes: Identify questions or issues with project (use during review period) | |

Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor or Propose 303(d) Listing	Spirit and North Spirit Lakes (Price Co.) have average total phosphorus concentrations of about 70 ug/l which greatly exceeds the WisCALM threshold of 40 ug/l for 303d listing. It is suspected that naturally occurring groundwater and wetland drainage TP concentrations are a substantial cause of the high lake TP.. Monitoring will be done to determine if this is the case. Monitoring includes: 1. Four stream sites sampled for TP on 5 dates. Estimated flow, D.O., temp., and pH will be measured. 2. Twelve residential wells will be sampled for TP to assess groundwater TP. 3. TP and CHL samples on 5 dates from Hultman Lake. This lake is in the Spirit Lakes watershed, and is minimally impacted by development and so would reflect background conditions. SD, D.O., temp., and pH would also be measured. 4. Sediment cores from Spirit and North Spirit Lake will be analyzed by Paul Garrison. Surficial and pre-development sediment layers will be examined to compare existing and pre-development lake conditions.	7/1/2010	6/30/2011	COMPLETE

Details: Parameter	Value/Amount	Units	Comments
Temperature			
Total Nitrogen			
Total Phosphorus			

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Details: Parameter	Value/Amount	Units	Comments		
Total Suspended Solids					
Monitor or Propose 303(d) Listing	Spirit Lake - 1513000, North Spirit Lake - 1515200, Hultman Lake - 1513900, Unnamed creek - 1513400 (3 sites), Unnamed creek - 1513100. Spirit and North Spirit Lakes (Price Co.) have average total phosphorus concentrations of about 70 ug/l which greatly exceeds the WisCALM threshold of 40 ug/l for 303d listing. It is suspected that naturally occurring groundwater and wetland drainage TP concentrations are a substantial cause of the high lake TP.	7/1/2010	6/30/2011	PROPOSED	

Monitoring Stations

Station ID	Name	Comments
513078	Hultman Lake - Deep Hole	
10031377	Middle spring draining to North Spirit Lake	
10031776	North Spirit Lake - Artesian well (GW-4)	
10031693	North Spirit Lake - private well NS-1	
10031694	North Spirit Lake - private well NS-2	
10031695	North Spirit Lake - private well NS-3	
10031696	North Spirit Lake - private well NS-4	
10031697	North Spirit Lake - private well NS-5	
10031378	South spring draining to North Spirit Lake (GW-3)	
10031702	Spirit Lake - private well SP-10	
10031703	Spirit Lake - private well SP-11	
10031704	Spirit Lake - private well SP-12	
10031698	Spirit Lake - private well SP-6	
10031699	Spirit Lake - private well SP-7	
10031700	Spirit Lake - private well SP-8	
10031701	Spirit Lake - private well SP-9	
513130	Stone Lake at Point Of Max Depth	
10031226	Unnamed intermittent stream at CTH C	
10031159	Unnamed trib to Hultman Lake at Hillman Drive	
10031225	Unnamed trib to Hultman Lake at unnamed road	
10031162	Unnamed trib to Spirit Lakes at snowmobile bridge (SW-2)	
10031561	Unnamed tributary at CTH C (northeast)	
10031560	Unnamed tributary at CTH C (northwest)	
10031160	Unnamed tributary to Hultman Lake at Hultman L. Rd.	
10031163	Unnamed tributary to Spirit Lake at STH 102	

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10031161	Unnamed tributary to Spirit Lakes at CTH C	
10031375	intermittent trib to North Spirit Lake	
10031376	north spring draining to North Spirit Lake	

Assessment Units

WBIC	Segment	Local Name	Official Name
1004100	1	Meadow Lake	Meadow Lake
1076200	1	Un Lake	Unnamed
1076300	1	Un Lake	Unnamed
1076400	1	Un Lake	Unnamed
1109250	1	Un Lake	Unnamed
1149200	1	Local Water	Unnamed
1506500	6	Spirit River	Spirit River
1508000	1	Spirit Creek (T34n R4e S3)	Spirit Creek
1508700	2	N. Fk. Spirit River	North Fork Spirit River
1508700	3	N. Fk. Spirit River	North Fork Spirit River
1508800	1	Ritchie Creek	Ritchie Creek
1508800	2	Ritchie Creek	Ritchie Creek
1509200	1	Knox Creek	Knox Creek
1509700	1	Unnamed Lake	Unnamed
1510800	1	Un Lake	Unnamed
1510900	1	Un Lake	Unnamed
1511000	1	Pearson Lake	Pearson Lake
1511300	1	Un Lake	Unnamed
1511400	1	Risberg Lake	Risberg Lake
1511500	1	Marheime Creek	Marheime Creek
1511700	1	Creek 19-3 (T34N, R4E)	Unnamed
1511700	2	Creek 19-3 (T34N, R4E)	Unnamed
1511900	1	Twin Creek	Twin Creek
1512000	1	Rocky Creek (Gus Johnson)	Rocky Creek
1512000	2	Rocky Creek	Rocky Creek
1512100	1	Gus Johnson Creek	Gus Johnson Creek
1512600	1	Johnson Creek	Johnson Creek
1513000	1	Spirit Lake	Spirit Lake
1513100	1	Local Water	Unnamed
1513400	1	Unnamed Creek (T34n,R3e,S32,Nsw,51)	Unnamed

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1513400	2	Unnamed Creek (T34n,R3e,S32,Nwsw,51)	Unnamed
1513500	1	Local Water	Unnamed
1513600	1	Local Water	Unnamed
1513700	1	Un Lake	Bergeson Lake
1513800	1	Stone Lake	Stone Lake
1513900	1	Hultman Lake	Hultman Lake
1514000	1	Local Water	Unnamed
1514200	1	Unnamed T34n R02e S23-15	Unnamed T34n R02e S23-15
1515000	1	Local Water	Unnamed
1515100	1	Fickle Lake	Fickle Lake
1515200	1	North Spirit Lake	North Spirit Lake
1529100	2	Willow River	Willow River
1530300	1	Thunder Creek	Thunder Creek
1530300	2	Thunder Creek	Thunder Creek
1530600	2	Unnamed Creek 18-4	Unnamed
1530700	2	Unnamed Creek 18-3	Unnamed
1531100	2	Little Willow Creek	Little Willow Creek
1531200	2	Stony Creek	Stony Creek
1531400	1	Unnamed Creek (T38n,R3e,S36,Senw,51)	Unnamed
1531500	1	Unnamed Creek-Little Willow Creek Tributary (S24) (T38n,R4e,S19)	Unnamed
1531500	2	Little Willow Creek Tributary (S24)	Unnamed
1531850	1	Sundance Creek	Sundance Creek
1532100	1	Willow Springs	Willow Springs
1546900	1	Somo River	Somo River
1552800	5	Scott Creek	Scott Creek
1553800	1	Unnamed	Unnamed
1553900	1	Meadow Brook	Meadow Brook
1554200	1	Little Creek	Little Creek
1554200	2	Little Creek	Little Creek
1554500	1	Somo Creek	Somo Creek
1554600	1	Little Somo Creek	Little Somo Creek
1833900	1	Bear Lake	Bear Lake
1839800	1	Pot Lake	Pot Lake
1841700	1	Coolidge Lake	Coolidge Lake
1843100	1	Dave Lake	Dave Lake

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1845400	1	Dog Lake	Dog Lake
1846300	1	East Leonards Lake	Leonards Lakes
1851400	1	Granger Lake	Granger Lake
1854000	1	Homestead Lake	Homestead Lake
1855500	1	Iodine Lake	Iodine Lake
1857300	1	Jupa Price	Jupa Lake
1857500	1	Kabol Lake	Kabol Lake
1859300	1	Lake Seven	Lake Seven
1859400	1	Ten Lake	Lake Ten
1859500	1	Three Lake	Lake Three
1860300	1	Lindberg Lake	Lindberg Lake
1860600	1	Little Bass Lake	Little Bass Lake
1863500	1	Lost Lake	Lost Lake
1866400	1	Mill Pond	Mill Pond
1866700	1	Minnow Lake	Minnow Lake
1867900	1	Mud Lake	Mud Lake
1868100	1	Mud Lake	Mud Lake
1868200	1	Mud Lake	Mud Lake
1870100	1	Nettie B Lake	Nettie B Lake
1870200	1	Newman Lake	Newman Lake
1870200	2	Newman Lake Campground Beach, Newman Lake	Newman Lake
1871600	1	Oles Lake	Oles Lake
1872000	1	Ouimetta Lake	Quimette Lake
1872500	1	Patterson Lake	Patterson Lake
1873200	1	Penny Lake	Penny Lake
1873300	1	Perch Lake	Perch Lake
1873400	1	Perch Lake	Perch Lake
1875700	1	Pot Lake	Pot Lake
1879100	1	South Lake	South Lake
1926400	1	Un Lake	Unnamed
1926500	1	Local Water	Unnamed
1926540	1	Un Lake	Unnamed
1926550	1	Un Lake	Unnamed
1926600	1	Un Lake	Unnamed
1926700	1	Un Lake	Unnamed

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1926800	1	Un Lake	Unnamed
1926900	1	Un Lake	Unnamed
1927000	1	Un Lake	Unnamed
1927100	1	Un Lake	Unnamed
1927200	1	Un Lake	Unnamed
1927300	1	Un Lake	Unnamed
1927400	1	Un Lake	Unnamed
1927500	1	Un Lake	Unnamed
1927600	1	Un Lake	Unnamed
1927700	1	Un Lake	Unnamed
1927900	1	Un Lake	Unnamed
1931100	1	Un Lake	Unnamed
1931300	1	Un Lake	Unnamed
1931400	1	Un Lake	Unnamed
1931500	1	Un Lake	Unnamed
1931600	1	Un Lake	Unnamed
1931700	1	Un Lake	Unnamed
1931800	1	Un Lake	Unnamed
1931900	1	Un Lake	Unnamed
1932000	1	Un Lake	Unnamed
1932100	1	Local Water	Unnamed
1932150	1	Un Lake	Unnamed
1932200	1	Un Lake	Unnamed
1932300	1	Un Lake	Unnamed
1936700	1	Un Lake	Unnamed
1936800	1	Un Lake	Unnamed
1936900	1	Un Lake	Unnamed
1937000	1	Un Lake	Unnamed
1937100	1	Un Lake	Unnamed
1937200	1	Un Lake	Unnamed
1937300	1	Un Lake	Unnamed
1937400	1	Un Lake	Unnamed
1937500	1	Un Lake	Unnamed
1937600	1	Un Lake	Unnamed
1937700	1	Un Lake	Unnamed

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1937800	1	Un Lake	Unnamed
1937900	1	Un Lake	Unnamed
1949900	1	Un Lake	Unnamed
1950000	1	Un Lake	Unnamed
1950100	1	Un Lake	Unnamed
1950500	1	Un Lake	Unnamed
1950600	1	Un Lake	Unnamed
1950700	1	Local Water	Unnamed
1950800	1	Local Water	Unnamed
1950900	1	Un Lake	Unnamed
1951000	1	Un Lake	Unnamed
1951100	1	Un Lake	Unnamed
1951200	1	Un Lake	Unnamed
1951400	1	Un Lake	Unnamed
1951500	1	Un Lake	Unnamed
1951600	1	Un Lake	Unnamed
1951700	1	Un Lake	Unnamed
1951800	1	Un Lake	Unnamed
1951850	1	Un Lake	Unnamed
1951860	1	Un Lake	Unnamed
1951900	1	Local Water	Unnamed
1970600	1	Un Lake	Unnamed
1970700	1	Un Lake	Unnamed
1970800	1	Un Lake	Unnamed
1971000	1	Un Lake	Unnamed
1971100	1	Un Lake	Unnamed
1971200	1	Un Lake	Unnamed
1971300	1	Un Lake	Unnamed
1971400	1	Un Lake	Unnamed
1971500	1	Un Lake	Unnamed
1971600	1	Un Lake	Unnamed
1971700	1	Un Lake	Unnamed
1971800	1	Un Lake	Unnamed
1971900	1	Un Lake	Unnamed
1972000	1	Un Lake	Unnamed

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1972100	1	Un Lake	Unnamed
1972200	1	Un Lake	Unnamed
1972300	1	Un Lake	Unnamed
1972400	1	Un Lake	Unnamed
1972500	1	Un Lake	Unnamed
1972600	1	Un Lake	Unnamed
1972700	1	Un Lake	Unnamed
1972800	1	Un Lake	Unnamed
1972900	1	Un Lake	Unnamed
1973000	1	Un Lake	Unnamed
1973100	1	Un Lake	Unnamed
1973200	1	Un Lake	Unnamed
1994000	1	Un Lake	Unnamed
1994100	1	Un Lake	Unnamed
1994200	1	Un Lake	Unnamed
1994300	1	Un Lake	Unnamed
1994400	1	Un Lake	Unnamed
1994500	1	Un Lake	Unnamed
1994600	1	Un Lake	Unnamed
1994700	1	Local Water	Unnamed
1994800	1	Local Water	Unnamed
1994900	1	Un Lake	Unnamed
1995000	1	Un Lake	Unnamed
1995050	1	Un Lake	Unnamed
1995100	1	Un Lake	Unnamed
1995300	1	Un Lake	Unnamed
1995400	1	Un Lake	Unnamed
1995500	1	Un Lake	Unnamed
1995600	1	Un Lake	Unnamed
1995700	1	Un Lake	Unnamed
1995800	1	Un Lake	Unnamed
1995900	1	Un Lake	Unnamed
1996200	1	Un Lake	Unnamed
1996300	1	Un Lake	Unnamed
1996400	1	Un Lake	Unnamed

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1996500	1	Un Lake	Unnamed
1996600	1	Un Lake	Unnamed
1997900	1	Un Lake	Unnamed
1998000	1	Local Water	Unnamed
1998050	1	Un Lake	Unnamed
1998100	1	Un Lake	Unnamed
1998200	1	Local Water	Unnamed
1998300	1	Un Lake	Unnamed
1998400	1	Un Lake	Unnamed
1998500	1	Un Lake	Unnamed
1998600	1	Un Lake	Unnamed
1998800	1	Un Lake	Unnamed
1999000	1	Un Lake	Unnamed
1999100	1	Un Lake	Unnamed
1999200	1	Un Lake	Unnamed
1999300	1	Un Lake	Unnamed
1999400	1	Un Lake	Unnamed
1999500	1	Un Lake	Unnamed
1999600	1	Un Lake	Unnamed
1999650	1	Un Lake	Unnamed
1999700	1	Un Lake	Unnamed
1999800	1	Un Lake	Unnamed
1999900	1	Un Lake	Unnamed
2000000	1	Un Lake	Unnamed
2000100	1	Un Lake	Unnamed
2000200	1	Un Lake	Unnamed
2043100	1	Cat Lake	Cat Lake
2044500	1	West Leonards Lake	Leonards Lakes
2045300	1	Warner Lake	Warner Lake
2046700	1	Wintergreen Lake	Wintergreen Lake
2187000	2	Jump River (Main Stem)	Jump River
2190700	1	Un Lake	Unnamed
2190900	1	Lower South Fork Jump River	South Fork Jump River
2190900	2	Upper South Fork Jump River	South Fork Jump River
2191000	1	Wolf Creek	Wolf Creek

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2191200	1	Steve Creek	Steve Creek
2191400	1	Steve Creek Flowage, Lower	Steve Creek Flowage, Lower
2192000	1	Unnamed Lake	Unnamed
2192100	1	Marsh Creek	Marsh Creek
2192500	1	Un Lake	Unnamed
2192600	1	Mondeaux River	Mondeaux River
2197900	1	Silver Creek	Silver Creek
2197900	3	Silver Creek	Silver Creek
2198800	1	Black Brook	Black Brook
2201700	1	Levitt Creek	Levitt Creek
2201800	1	Alcohol Creek	Alcohol Creek
2202000	1	Un Lake	Unnamed
2202100	1	Un Lake	Unnamed
2202300	1	Un Lake	Unnamed
2202500	1	Johnson Lake	Johnson Lake
2202600	1	Bass Lake	Bass Lake
2202600	2	Timm's Hill Park Beach, Bass Lake	Bass Lake
2202900	1	Un Lake	Unnamed
2203200	1	Un Lake	Unnamed
2203700	1	Unnamed Lake	Unnamed
2204300	1	Un Lake	Unnamed
2204400	1	Little Mondeaux Creek	Little Mondeaux Creek
2205000	1	Unnamed Lake	Unnamed
2205200	1	Unnamed Lake	Unnamed
2205300	1	Holmes Creek	Holmes Creek
2205600	1	Ogema Mill Pond	Ogema Millpond
2205700	1	N. Br. Holmes Creek	North Branch Holmes Creek
2205900	1	Un Lake	Unnamed
2206000	1	Un Lake	Unnamed
2206200	1	Anderson Lake	Anderson Lake
2206300	2	Timms Lake	Timms Lake
2206400	1	Douglas Creek	Douglas Creek
2206400	2	Douglas Creek	Douglas Creek
2206500	1	Ottertail Creek	Ottertail Creek
2206600	1	Un Lake	Unnamed

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2206700	1	Ottertail Springs	Ottertail Springs
2206700	2	Ottertail Springs	Ottertail Springs
2206700	3	Ottertail Springs	Ottertail Springs
2206700	4	Ottertail Springs	Ottertail Springs
2206700	5	Ottertail Springs	Ottertail Springs
2206900	1	Mondeaux Creek	Mondeaux Creek
2207000	1	Golden Creek	Golden Creek
2207500	1	Unnamed Lake	Unnamed
2207700	1	Unnamed T35n R02e S36-10	Unnamed T35n R02e S36-10
2207900	1	Thirty Five Lakes, Lower	Thirty Five Lakes
2208600	1	Little Brien Lake	Little Briens Lake
2208700	1	Un Lake	Unnamed
2208900	1	Local Water	Unnamed
2209000	1	Thirty Five Lakes	Big Briens Lake
2209000	2	Big Briens Lake (Priens Lake)	Big Briens Lake
2209200	1	Unnamed Lake	Unnamed
2209600	1	Hay Creek	Hay Creek
2210900	1	Worcester Lake	Worcester Lake
2211300	1	Prentice Flowage	Prentice Flowage
2211400	1	Williams Creek	Williams Creek
2211800	1	Unnamed Lake	Unnamed T36n R02e S15-03
2212300	1	Unnamed	Unnamed
2212600	1	Unnamed Spring	Un Spring
2212900	1	North Fork Jump River	North Fork Jump River
2212900	2	North Fork Jump River	North Fork Jump River
2213000	1	Mox Creek	Mox Creek
2213100	1	Web Creek	Web Creek
2213200	1	Gilbert Creek	Gilbert Creek
2213300	1	Green Creek	Green Creek
2213600	1	Un Lake	Unnamed
2213700	1	Meadow Creek	Meadow Creek
2214000	1	Hobbles Creek	Hobbles Creek
2214400	1	Unnamed Lake	Unnamed
2214900	1	Township Corners Flowage	Township Corners Flowage
2215100	1	Beaver Creek	Beaver Creek

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2215600	1	Needle Creek	Needle Creek
2216000	1	Unnamed Lake (T36n R01w S23-14)	Unnamed T36n R01w S23-14
2216100	1	Spring Creek	Spring Creek
2216200	1	Un Lake	Unnamed
2216400	1	Spring Creek Flowage	Spring Creek Flowage
2216500	1	Thunder Creek	Thunder Creek
2216600	1	Unnnamed Lake (T36n R01w S23-14)	Unnamed
2216700	1	Cranberry Creek	Cranberry Creek
2217000	1	Cranberry Lake	Cranberry Lake
2218000	4	South Fork Main Creek	South Fork Main Creek
2218300	1	Morgan Creek	Morgan Creek
2218500	1	Spring Creek	Spring Creek
2218900	1	Stony Creek	Stony Creek
2225000	1	Upper Pixley Flowage	Flambeau River
2225000	3	Flambeau Flowage	Flambeau River
2231200	1	Lower S. Fork Flambeau River	South Fork Flambeau River
2231200	2	Upper S. Fork Flambeau River	South Fork Flambeau River
2231200	3	Upper S. Fork Flambeau River	South Fork Flambeau River
2231700	1	Skinner Creek	Skinner Creek
2232000	2	North Fork Skinner Creek	North Fork Skinner Creek
2232700	1	Un Lake	Unnamed
2232800	1	Un Lake	Unnamed
2233400	1	Old Mill Creek	Old Mill Creek
2234000	2	Price Creek	Price Creek
2234000	3	Price Creek	Price Creek
2234000	4	Price Creek	Price Creek
2234500	1	Mud Lake	Mud Lake
2234600	1	Price Lake	Price Lake
2234700	1	Beaver Creek	Beaver Creek
2234900	1	Bass Lake	Bass Lake
2235000	1	Jackson Springs Creek	Jackson Springs Creek
2235100	1	Jackson Springs	Jackson Springs
2235200	1	Price Lake, Middle	Middle Price Lake
2235300	1	Price Lake, Upper	Upper Price Lake
2235600	1	Stony Brook	Stony Brook

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2235800	1	Unnamed T37n R02w S19-07	Unnamed T37n R02w S19-07
2236100	1	Un Lake	Unnamed
2236200	1	Un Lake	Unnamed
2236500	1	Elk River	Elk River
2236500	2	Elk River	Elk River
2236500	3	Elk River	Elk River
2236500	4	Elk River	Elk River
2236500	5	Elk River	Elk River
2236500	6	Elk River	Elk River
2236800	1	Lac Sault Dore (Soo Lake)	Lac Sault Dore
2237000	1	Carpenter Creek	Carpenter Creek
2237100	1	Ninemile Creek (Georgetown Cr)	Ninemile Creek
2237200	1	Un Lake	Unnamed
2237300	1	Sixteen Lake	Lake Sixteen
2237400	1	Crane & Chase Creek	Crane + Chase Creek
2237500	1	Crane And Chase	Crane and Chase Lake
2237900	1	Mcilquham Lake Creek	Mcllquham Lake Creek
2238000	1	Mcilquham Lake	Mcllquham Lake
2238100	1	Grassy Lake	Grassy Lake
2238300	1	Deer Creek	Deer Creek
2238600	1	Janacek Springs	Janacek Springs
2238900	1	Mink Spring	Mink Spring
2239100	1	Deer Lake	Deer Lake
2239300	1	Long Lake	Long Lake
2239400	1	Wilson Lake (Wilson Ck Fl)	Wilson Lake
2239700	1	Local Water	Unnamed
2239800	1	Wilson Creek	Wilson Creek
2240000	1	Elk Lake	Elk Lake
2240000	2	Phillips City Beach, Elk Lake	Elk Lake
2240100	1	Duroy Lake	Duroy Lake
2240200	1	Little Elk River	Little Elk River
2240200	2	Little Elk Creek	Little Elk River
2240200	3	Little Elk River	Little Elk River
2240300	1	Hackett Creek	Chase Creek
2240400	1	Un Lake	Unnamed

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2240500	1	Cramer Creek	Cramer Creek
2241200	1	Un Lake	Unnamed
2241400	1	Foytik Creek	Foytik Creek
2241500	1	Murphy Lake	Murphy Lake
2241700	1	Elk River (North Branch)	North Branch Little Elk River
2242200	1	Aabajjiwani-ziibiinsing	Aabajjiwani-ziibiinsing
2242200	2	Aabajjiwani-ziibiinsing	Aabajjiwani-ziibiinsing
2242200	3	Aabajjiwani-ziibiinsing	Aabajjiwani-ziibiinsing
2242200	4	Aabajjiwani-ziibiinsing	Aabajjiwani-ziibiinsing
2242500	1	Solberg Lake	Solberg Lake
2242500	2	Solberg Lake North Swimming Beach, Solberg Lake	Solberg Lake
2242500	3	Solberg Lake Campground Beach, Solberg Lake	Solberg Lake
2242600	1	Disappearing Creek	Disappearing Creek
2242650	1	Un Lake	Unnamed
2242900	1	Lower Aabajjiwang Flowage	Lower Aabajjiwang Flowage
2243200	1	Aabajjiwang Flowage	Aabajjiwang Flowage
2243400	1	Nichols Lake (Little Joe)	Nichols Lake
2243500	1	Gates Lake	Gates Lake
2243700	1	Donavan Lake	Donavan Lake
2243800	1	Bass Lake	Bass Lake
2244000	1	Hoffman Creek	Hoffman Creek
2244000	2	Hoffman Creek	Hoffman Creek
2244200	1	Big Dardis Lake	Big Dardis Lake
2244400	1	Little Dardis Lake	Little Dardis Lake
2244600	1	Local Water	Unnamed
2244800	1	Local Water	Unnamed
2244900	1	Lost Lake	Lost Lake
2245100	1	Musser Lake	Musser Flowage
2245200	1	Worchester Creek	Chase Creek
2245500	1	Popple Creek	Popple Creek
2245500	2	Popple Creek	Popple Creek
2245700	1	Spring Creek	Spring Creek
2246500	1	Wilson Flowage	Wilson Flowage
2246600	1	Wilson Flowage	Wilson Flowage
2246700	1	E. Fork Popple Creek	East Fork Popple Creek

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2246900	1	Musser Creek	Musser Creek
2247200	1	Un Lake	Unnamed
2247300	1	Horton Creek	Horton Creek
2247600	1	Elk River Tributary (S34-23)	Unnamed
2247700	1	Elk River Tributary (S25-26)	Unnamed
2247900	1	Spring Creek (Twn Of Emery)	Spring Creek
2248300	1	Un Spring	Un Spring
2248400	1	Nelson Creek	Nelson Creek
2248600	1	Dankes Lake	Dankes Lake
2248800	1	Niebauer Springs	Unnamed
2248800	2	Niebauer Springs	Unnamed
2249000	1	Niebauer Springs	Niebauer Springs
2249100	1	Smith Creek (Flambeau)	Smith Creek
2249100	2	Smith Creek (Flambeau)	Smith Creek
2249100	3	Smith Creek (Flambeau)	Smith Creek
2249400	1	Maiden Creek	Maiden Creek
2249600	1	Mt. Pelee Creek	Mt Pelee Creek
2249900	1	Un Lake	Unnamed
2250200	1	Flambeau River Trib (S Frk) S9,T38n,R1w	Unnamed
2250300	1	Spring Creek (Flambeau Creek)	Spring Creek
2250400	1	Swamp Creek	Swamp Creek
2250600	1	Unnamed Lake	Unnamed T38n R01w S03-09
2250800	1	Un Spring	Un Spring
2250900	1	Rock Creek	Rock Creek
2251100	1	Priest Creek	Priest Creek
2251200	1	Priest Lake	Priest Lake
2251400	1	Axels Lake	Axels Lake
2251500	1	Patterson Creek	Patterson Creek
2251700	1	Davis Lake	Davis Lake
2251800	1	Un Lake	Unnamed
2252000	1	Sailor Creek	Sailor Creek
2252200	1	Sailor Creek Flowage	Sailor Creek Flowage
2252300	1	Coolidge Creek	Coolidge Creek
2252500	1	Sweeney Lake	Sweeney Lake
2252600	1	Hesher Creek	Hesher Creek

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2253100	1	Beaver Lake	Beaver Lake
2253400	1	Spur Lake	Spur Lake
2253500	1	Hogback Springs (Spur)	Hogsback Springs
2253500	2	Hogsback Spgs	Hogsback Springs
2253800	1	Beaverdam Lake	Beaverdam Lake
2253900	1	Dalrymple Creek	Dalrymple Creek
2254800	1	Sailor Lake	Sailor Lake
2255300	1	Schmuland Flowage	Schmuland Flowage
2255400	1	Murray Creek	Murray Creek
2255500	1	Murray Creek Tributary S31	Unnamed
2255600	1	Little Murray Creek	Little Murray Creek
2255900	1	Threemile Creek	Threemile Creek
2256100	1	Un Lake	Unnamed
2256300	1	Unnamed Lake	Unnamed T39n R01e S16-14
2256400	1	Planet Lake (Fourmile)	Planet Lake
2256600	1	Hansen Lake	Hansen Lake
2256700	1	Blockhouse L. Creek	Blockhouse Lake Creek
2256800	1	Blockhouse Lake	Blockhouse Lake
2257000	1	Bullhead Lake	Bullhead Lake
2257200	1	Un Lake	Unnamed
2257300	1	Tracy Creek	Tracy Creek
2257500	1	Un Lake	Unnamed
2257600	1	Tracy Lake	Tracy Lake
2257800	2	Hay Creek	Hay Creek
2257900	1	E Fork Hay Creek	East Fork Hay Creek
2257900	2	Hay Creek East Fork	East Fork Hay Creek
2257900	3	E Fork Hay Creek	East Fork Hay Creek
2258000	1	Camp Nine Creek	Camp Nine Creek
2258100	1	Camp Nine Springs	Camp Nine Springs
2258200	1	Cedar Creek	Cedar Creek
2258400	1	Un Lake	Unnamed
2258500	1	Un Lake	Unnamed
2259400	1	Hay Lake	Hay Lake
2260600	1	Camp C Creek	Camp C Creek
2260700	1	Camp C Creek Tributary (S20-21, T40n, R2e)	Unnamed

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2260900	1	Island Lake	Island Lake
2261000	1	Camp C Springs	Camp C Springs
2261300	1	Newman Creek	Newman Creek
2261400	1	Camp Four Creek	Camp Four Creek
2261600	1	Un Lake	Unnamed
2261700	1	Camp Four Springs	Camp Four Springs
2261900	1	Newman Springs	Newman Springs
2262000	1	Elevenmile Creek	Elevenmile Creek
2262100	1	Un Lake	Unnamed
2262200	1	Un Lake	Unnamed
2262400	1	Clover Creek	Clover Creek
2262600	1	Un Lake	Unnamed
2262800	1	Byhre Creek	Byhre Creek
2262800	2	Byhre Creek	Byhre Creek
2262900	1	Unnamed Stream	Unnamed
2263000	1	Un Lake	Unnamed
2263200	1	Riley Creek	Riley Creek
2263400	1	Riley Lake	Riley Lake
2263500	1	Springstead Creek	Springstead Creek
2263600	1	Spring Brook	Spring Brook
2263700	1	Un Lake	Unnamed
2263800	1	Cochram Creek	Cochram Creek
2264000	1	Cochram Lake	Cochran Lake
2264200	1	Twin Lakes	Twin Lakes
2264300	1	Un Lake	Unnamed
2264500	1	Ferry Springs	Ferry Springs
2264700	1	Tackle Lake	Tackle Lake
2265700	1	Thompson Creek	Thompson Creek
2265900	1	Thompson Lake	Thompson Lake
2266100	1	Whitcomb Lake	Whitcomb Lake
2267800	1	Round Lake (Pike Lake Chain)	Round Lake
2268100	1	Deer Lake	Deer Lake
2268200	1	Mcarthur Lake	McArthur Lake
2268300	1	Pike Lake Chain	Pike Lake
2268400	1	Rice Creek (Pike Lake Chain)	Rice Creek

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2268500	1	Turner Lake (Pike Lake Chain)	Turner Lake
2268800	1	Tucker Creek	Tucker Creek
2269000	1	Tucker Lake	Tucker Lake
2269300	1	Un Spring	Un Spring
2270700	1	Big Pine Lake	Big Pine Lake
2271000	1	Town Line Lake	Townline Lake
2271100	1	Miles Lake	Miles Lake
2271200	1	Amber Creek	Amber Creek
2273000	1	Foulds Creek	Foulds Creek
2273000	2	Foulds Creek	Foulds Creek
2273000	3	Foulds Creek	Foulds Creek
2273200	1	Foulds Creek Flowage	Foulds Creek Flowage
2273400	1	Pond Lake	Pond Lake
2273700	1	Sieverson Creek	Sieverson Creek
2273900	1	Foulds Springs (Middle Pond)	Foulds Springs
2274100	1	Un Spring	Un Spring
2277800	1	Constellation Lake	Constellation Lake
2278700	1	Pine Creek	Pine Creek
2278700	2	Pine Creek	Pine Creek
2278700	3	Pine Creek	Pine Creek
2279100	1	Local Water	Unnamed
2279200	1	Hay Creek	Hay Creek
2279400	1	Annie Lake	Lake Annie
2279600	1	Lake Alice	Lake Alice
2279800	1	Bass Lake	Bass Lake
2280000	1	Camp Seven Creek	Camp Seven Creek
2280200	1	Round Lake	Round Lake
2280400	1	Weber Creek	Weber Creek
2280400	2	Weber Creek	Weber Creek
2281200	1	Rock Creek	Rock Creek
2281400	1	Oxbo Lake	Oxbo Lake
2281700	1	Un Lake	Unnamed
2281900	1	Carp Lake	Carp Lake
2282000	1	Long Lake	Long Lake
2282200	1	Bass Lake	Bass Lake

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2282300	1	Butternut Creek	Butternut Creek
2282300	5	Butternut Creek	Butternut Creek
2282600	1	Butternut Creek Tributary (S27-34)	Unnamed
2282900	1	Beaver Creek	Beaver Creek
2282900	3	Beaver Creek	Beaver Creek
2283300	1	Butternut Lake	Butternut Lake
2283400	1	Local Water	Unnamed
2283600	1	Buckman Lake	Buckman Lake
2283700	1	Cooley Lake	Cooley Lake
2283800	1	Mud Lake	Mud Lake
2284000	1	Schnur Lake	Schnur Lake
2284100	1	Spiller Creek	Spiller Creek
2286600	1	Le Tourneau Creek	Le Tourneau Creek
2286800	1	Le Claire Lake	LeClaire Lake
2286900	1	Le Tourneau Lake	Le Tourneau Lake
2287000	1	Ninemile Creek (Flambeau Creek)	Ninemile Creek
2287000	2	Ninemile Creek (Flambeau Creek)	Ninemile Creek
2287200	1	Crowley Flowage	Crowley Flowage 802
2287400	1	Peters Lake	Peters Lake
2287500	1	Sixmile Creek	Sixmile Creek
2287600	1	Un Lake	Unnamed
2287700	1	Flood Creek	Flood Creek
2287800	1	Gardner Creek	Gardner Creek
2287900	1	Gardner Lake	Gardner Lake
2288000	1	Pinkerton Creek	Pinkerton Creek
2288100	1	Betsy Creek	Betsy Creek
2288300	1	Betsy Creek Springs	Betsy Creek Springs
2288600	1	Betsy Lake	Betsy Lake
2288700	1	Pixley Creek	Pixley Creek
2288900	1	Pixley Flowage	Pixley Flowage
2289000	1	Smith Lake, Pixley Flowage	Smith Lake
2289000	2	Pixley Flowage -- Smith Lake County Park, Smith Lake	Smith Lake
2289100	1	Smith Creek (Twn Of Lake)	Smith Creek
2289100	2	Smith Creek (Twn Of Lake)	Smith Creek
2289300	1	Un Spring	Un Spring

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2289400	1	Smith Creek Tributary (S14-15)	Unnamed
2289500	1	Smith Creek Tributary (S11-15)	Unnamed
2289900	1	Pixley Flowage Tributary (S28)	Unnamed
2290100	1	Park Falls Flowage, Lower	Lower Park Falls Flowage 762
2290500	1	Park Falls Flowage, Upper	Upper Park Falls Flowage 760
2295900	1	Beaver Creek	Beaver Creek
3000078	1	Local Water	Unnamed
4000002	1	Byhre Lake	Byhre Lake
5005328	1	Local Water	Unnamed
5005661	1	Local Water	Unnamed
5006510	1	Local Water	Unnamed
5509127	1	Local Water	Unnamed
5509502	1	Local Water	Unnamed
5509646	1	Local Water	Unnamed
5510117	1	Local Water	Unnamed
5510416	1	Local Water	Unnamed
5510715	1	Local Water	Unnamed
5510722	1	Local Water	Unnamed
5510794	1	Local Water	Unnamed
5511157	1	Local Water	Unnamed
5511618	1	Local Water	Unnamed
5511814	1	Local Water	Unnamed
5512133	1	Local Water	Unnamed
5512288	1	Local Water	Unnamed
5512306	1	Local Water	Unnamed
5512428	1	Local Water	Unnamed
5512616	1	Foulds Springs (Lower Pond)	Foulds Springs
5512712	1	Foulds Springs (Upper Pond)	Foulds Springs
5513403	1	Local Water	Unnamed
5513685	1	Local Water	Unnamed
5513803	1	Local Water	Unnamed
5514219	1	Local Water	Unnamed
5514287	1	Local Water	Unnamed
5514610	1	Local Water	Unnamed
5514939	1	Local Water	Unnamed

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5515279	1	Local Water	Unnamed
5515366	1	Local Water	Unnamed
5515740	1	Local Water	Unnamed
5515763	1	Local Water	Unnamed
5515834	1	Local Water	Unnamed
5515919	1	Local Water	Unnamed
5516161	1	Local Water	Unnamed
5516384	1	Local Water	Unnamed
5516471	1	Local Water	Unnamed
5516740	1	Unnamed	Unnamed
5516854	1	Local Water	Unnamed
5517163	1	Local Water	Unnamed
5517935	1	Local Water	Unnamed
5518324	1	Local Water	Unnamed
5518327	1	Local Water	Unnamed
5518443	1	Local Water	Unnamed
5518554	1	Local Water	Unnamed
5519206	1	Local Water	Unnamed
5519295	1	Local Water	Unnamed
5519435	1	Local Water	Unnamed
5519609	1	Local Water	Unnamed
5519624	1	Local Water	Unnamed
5519686	1	Local Water	Unnamed
5519856	1	Local Water	Unnamed
5519856	2	Buccaneer Pond Beach, Unnamed	Unnamed
5519892	1	Local Water	Unnamed
5520556	1	Local Water	Unnamed
5520626	1	Local Water	Unnamed
5520640	1	Local Water	Unnamed
5521056	1	Local Water	Unnamed
5521584	1	Local Water	Unnamed
5521608	1	Local Water	Unnamed
5521630	1	Local Water	Unnamed
5522222	1	Local Water	Unnamed
5522465	1	Local Water	Unnamed

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5522657	1	Local Water	Unnamed
5522719	1	Local Water	Unnamed
5522783	1	Local Water	Unnamed
5523011	1	Local Water	Unnamed
5523194	1	Local Water	Unnamed
5523399	2	Local Water	Unnamed
5523508	1	Local Water	Unnamed
5581459	1	Local Water	Unnamed
5581460	1	Local Water	Unnamed
5581463	1	Local Water	Unnamed
5581904	1	Local Water	Unnamed
5581915	1	Local Water	Unnamed
5583540	1	Local Water	Unnamed
5583714	1	Local Water	Unnamed
5583717	1	Local Water	Unnamed
5583739	1	Local Water	Unnamed
5583772	1	Local Water	Unnamed
5583780	1	Thirtyfive	Thirtyfive Lakes
5583834	1	Local Water	Unnamed
5589249	1	Unnamed	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WT128	LAKES SPECIAL PROJECTS	6/18/2010	6/30/2011

Forms

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
7/22/2010 10:00	COMPLETE	HL-10	513078	Hultman Lake - Deep Hole
7/22/2010 10:30	COMPLETE	HI-1	10031159	Unnamed trib to Hultman Lake at Hillman Drive
7/22/2010 10:45	COMPLETE	U-2	10031225	Unnamed trib to Hultman Lake at unnamed road
7/22/2010 11:00	COMPLETE	HU-3	10031160	Unnamed tributary to Hultman Lake at Hultman L. Rd.
7/22/2010 11:15	COMPLETE	CN-4	10031161	Unnamed tributary to Spirit Lakes at CTH C

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7/22/2010 11:30	COMPLETE	NW-17	10031560	Unnamed tributary at CTH C (northwest)
7/22/2010 11:45	COMPLETE	NE-16	10031561	Unnamed tributary at CTH C (northeast)
7/22/2010 12:15	COMPLETE	CS-5	10031226	Unnamed intermittent stream at CTH C
7/22/2010 12:45	COMPLETE	102-6	10031163	Unnamed tributary to Spirit Lake at STH 102
7/22/2010 13:30	COMPLETE	SB-7	10031162	Unnamed trib to Spirit Lakes at snowmobile bridge (SW-2)
9/16/2010 11:00	COMPLETE	HI-1	10031159	Unnamed trib to Hultman Lake at Hillman Drive
9/16/2010 11:45	COMPLETE	U-2	10031225	Unnamed trib to Hultman Lake at unnamed road
9/16/2010 12:30	COMPLETE	HL-10	513078	Hultman Lake - Deep Hole
9/16/2010 13:15	COMPLETE	HU-3	10031160	Unnamed tributary to Hultman Lake at Hultman L. Rd.
9/16/2010 13:30	COMPLETE	SL-11	513130	Stone Lake at Point Of Max Depth
9/16/2010 13:45	COMPLETE	CS-5	10031226	Unnamed intermittent stream at CTH C
9/16/2010 14:00	COMPLETE	102-6	10031163	Unnamed tributary to Spirit Lake at STH 102
9/16/2010 14:30	COMPLETE	SB-7	10031162	Unnamed trib to Spirit Lakes at snowmobile bridge (SW-2)
9/16/2010 15:15	COMPLETE	AW-18	10031776	North Spirit Lake - Artesian well (GW-4)
9/16/2010 15:30	COMPLETE	CN-4	10031161	Unnamed tributary to Spirit Lakes at CTH C
9/16/2010 16:00	COMPLETE	NE-16	10031561	Unnamed tributary at CTH C (northeast)
9/16/2010 16:15	COMPLETE	NW-17	10031560	Unnamed tributary at CTH C (northwest)
11/8/2010 10:00	COMPLETE	HI-1	10031159	Unnamed trib to Hultman Lake at Hillman Drive
11/8/2010 10:20	COMPLETE	U-2	10031225	Unnamed trib to Hultman Lake at unnamed road
11/8/2010 10:40	COMPLETE	HU-3	10031160	Unnamed tributary to Hultman Lake at Hultman L. Rd.
11/8/2010 11:00	COMPLETE	CS-5	10031226	Unnamed intermittent stream at CTH C
11/8/2010 11:30	COMPLETE	102-6	10031163	Unnamed tributary to Spirit Lake at STH 102
11/8/2010 12:00	COMPLETE	SB-7	10031162	Unnamed trib to Spirit Lakes at snowmobile bridge (SW-2)
11/8/2010 12:25	COMPLETE	CN-4	10031161	Unnamed tributary to Spirit Lakes at CTH C
11/8/2010 12:40	COMPLETE	NE-16	10031561	Unnamed tributary at CTH C (northeast)
11/8/2010 13:00	COMPLETE	NW-17	10031560	Unnamed tributary at CTH C (northwest)

Documents

Title	Description	Author	Published	Comments
Spirit Lakes Water Quality Assessment		Craig Roesler	3/15/2011	
Spirit Lakes Water Quality Assessment Appendix		Craig Roesler	3/15/2011	

Budget

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Budget Description: Budget for Spirit and North Spirit Lakes 303d Evaluation [NOR_02_11]	Start Date: 7/1/2010	End Date: 6/30/2011
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	80	Hours	\$0.00	\$0.00	Craig Roesler
LTE SAL	LTE Salary	0	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	5		\$22.00	\$110.00	shipping samples to lab
MILEAGE	Mileage	1070	Miles	\$0.37	\$395.90	
MEAL	Meals	5	Meals	\$9.00	\$45.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$440.90	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
EQUIP	Equipment				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$550.90	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	5	\$24.52	\$122.60
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	37	\$23.60	\$873.20
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	25	\$6.36	\$159.00
R210PBD	LEAD 210 SEDIMENT DATING	RADIOCHEMISTRY	2	\$105.60	\$211.20

Total WSLH Lab Costs:	\$1,366.00
Total Budget:	\$1,916.90
Combined Budgets:	\$550.90
Combined WSLH:	\$1,366.00
Combined Total:	\$1,916.90

Funding					
Organization	Source	Type	Amount	Start Date	End Date