

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_11_CMP11
Name: Impaired Waters (303d) Evaluation and Monitoring for Biological Recovery of Newton Creek and Hog Island Inlet after Rer
Type: Targeted Monitoring
Subtype: Newly Proposed
Status: FINAL_RPT
Start Date: 07/01/2010
End Date: 06/30/2011
Purpose: This project is continued monitoring for a 3-year project, of which this upcoming fiscal year would be year-3 of the project. Last year it was NOR18_10, and the previous year was NOR1_09. This project involves evaluating 303d waters including Newton Creek and Hog Island Inlet which is required for proposing removal of waters from the state's impaired waters list - to complete necessary monitoring as required by EPA.
Objective: To determine if Newton Creek (2843650) and Hog Island Inlet (2751220) are meeting their designated or attainable uses (as described by Chapter NR 102) after recent remediation efforts to remove aquatic toxicity impairments caused by metals, pah's, and petroleum pollutants. Post-monitoring evaluation of the biological recovery of these waterbodies will further determine the overall success of remediation efforts towards substantially improving water quality and whether or not these waterbodies may be removed from the 303(d) list. Sediment monitoring this year will also determine if original impairments still exist.
Comments: SP12 (Measure W), New project

This project also needs a contract to analyze "Diesal Range Organics" in sediment.

Outcome: This project is also greatly enhanced if funding is given in full for the Faxon Creek special project: NOR8_11. Faxon Creek monitoring will also be used as a companion monitoring site with Newton Creek for flow and sediment quality. There is historical data comparing Faxon and Newton Creeks from the Newton Creek/Hog Island restoration project.
 Newton Creek: Macroinvertebrates: contracted out to LSRI to sample 3 sites, spring and fall, in 2008, 2009, 2010. Sampling complete by December 1 each year. Fish Community: sample 2-3 sites once/yr in 2008, 2009, 2010. To be completed by September 30th each yr with data entry complete by Dec. 31st. Sediment/water quality monitoring: 2 sites, sampled 4 times, plus 2 additional grab samples for sediment monitoring for PAH's, oils and grease, and metals.
 Hog Island Inlet: Macroinvertebrates: contracted out to LSRI to sample 5-6 sites in 2010. Complete sampling by Sept. 30th each yr. Fish Community: sample 3 sites once/yr by Mini-fyke netting in 2008 and 2010. Electrofish shoreline with mini-boomshocker in 2010. Fish sampling complete by Sept 30th each year with data entry complete by Dec 31st. Macrophyte community: Conduct point-intercept surveys of aquatic plants in 2008 and 2010 by August 31 each yr.
 Final Report: Write a final report to summarize all findings and to make comparisons with historic data by June 30, 2011. Report will discuss/evaluate the overall biological and physical recovery of Newton Creek and Hog Island Inlet and make recommendations for future management in regards to status on 303d list.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
GRAHAM, JOSEPH R	TEAM_MEMBER	ACTIVE	01/28/2011		Wisconsin DNR	
KOSHERE, FRANK J	TEAM_MEMBER	INACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	
LAVIGNE, CLIFFORD R	COORDINATOR	INACTIVE	06/27/2011		Wisconsin DNR	Marked Cliff as "Inactive" since he no longer works for DNR.
MANZ, CORDELL H	COORDINATOR	INACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	
Roesler, Craig P	COORDINATOR	COMPLETE	07/01/2010	01/15/2020	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
03/24/2010	MOLLI MACDONALD	Proposed	
12/07/2010	MOLLI MACDONALD	Progress: 0-25% Complete	Looks like there are field work events for 6 different stations but there is only 1 station listed in the station ID field. Need January

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Date	Reported By	Status	Comments
02/02/2011	CORDELL MANZ	Progress: 75-100% Complete	<p>status update.</p> <p>This project was initially designed to be a 3-year assessment of Hog Island and Newton Creek, to see if they could be de-listed following remediation efforts. Almost all field work for this project has been concluded with one major exception. The exception was the intended sampling and analyses of the macroinvertebrate community in Hog Island Inlet. This did not take place because funding for this portion of the project did not come through in 2009 & 2010. We consider assessment/analyses of invertebrates and their recovery to be necessary for delisting of Hog Island Inlet, so this has been proposed as a project for 2011-12 once again. This is what has occurred up to this date:</p> <p>Hog Island Inlet: 1) Point-intercept macrophyte surveys in 2008 and 2010, 2) Mini-fyke netting surveys of the fish community in 2008 and 2010, 3) Limited water chemistry sampling for nutrients, TSS, chlorophyll, and bacteria in 2008-09. Final write up of the Hog Island portion of the project should occur following assessment/analyses of the invertebrate community, if that project is funded for the coming year, w/ recommendations made in time for updating the 2014, or possibly the 2012 303d List.</p> <p>Newton Creek: 1) Sampling and analyses for macroinvertebrates is concluded for years ~2003 - 2009. Sampling was also done in 2010, w/analyses of results to be finished this winter/spring, 2) backpack electrofishing surveys were performed on 3 stations each year (2008-2010) for fish IBI assessment/recovery of the fish community, 3) Water chemistry sampling was conducted in the form of grab samples in 2008-2009 for PAH's, and also nutrients and TSS. In 2010 sediment sampling for PAH's and oils and grease, and lead has been performed. We are still waiting for much of these results from SLoH. Nutrients were also monitored in 2010. Once all analyses and results have been received, report writing and recommendations can commence. Lake Superior Basin has lost its water quality biologist, but hopefully a final report can be ready for an update to the 2014, or possibly the 2012 303d List.</p>
06/27/2011	CLIFFORD LAVIGNE	Active	<p>I would consider this project 70-80% complete overall. All monitoring was completed for fiscal year 2011, the final year of an initial three year project. Project will continue with work from Joe Graham, Tracey Ledderer and Cliff LaVigne including sediment sampling in Hog Island Inlet to access the possibility of 303d delisting. Final project report will be generated after work is completed this coming field season.</p>
01/19/2012	CLIFFORD LAVIGNE	Progress: 75-100% Complete	Final report draft completed. All editing should be finished by Feb 1 2012.
04/16/2012	CLIFFORD LAVIGNE	Progress: 75-100% Complete	Final draft is being edited and nearing completion.
02/04/2013	JOSEPH GRAHAM	Progress: 75-100% Complete	Report being drafted - awaiting results/write-up of 2012 sediment toxicity testing (CAP_10_2012) for inclusion into final report with recommendations for changes to 303(d) listing.
10/18/2013	JOSEPH GRAHAM	Progress: 75-100% Complete	Staff assigned to this project report left state service. Report may be completed as other priority work allows.
06/13/2014	JOSEPH GRAHAM	Progress: 75-100% Complete	Staff assigned to this project report left state service. Report may be completed as other priority work allows.

Project Status Detail

Answer Set: DEFAULT

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Question

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 in the previous year?
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)
8. Reviewer Decision: Is this project recommended for funding?

Answer

Newton Creek: 3 sites (SWIMS-163008 at 21st St; SWIMS- 163011 at 11th St; SWIMS-163325 reach 29, near 3rd St.) Possibly establish new sites for sediment monitoring.
 Hog Island Inlet: 3 sites for mini-fyke net monitoring. Contract with LSRI will establish invert sites.
 Total = ~8 complete days.

Electrofishing - 1 day (2-3 sites)Sediment sampling: 5 sample event days, plus 1 day setting up stations.
 Hog Island - netting, 2 days, shocking 1 day, macrophyte sampling 1 day.
 Fish IBI's - conduct in July
 Sedement/water quality mon. July-Oct
 Macrophyte survey mid-July to mid August
 Mini-fyke netting - late august/early Sept.
 Electroshocking on Hog Island, late August/September.
 Fisheries database (LTE), SWIMS (sloh)

Yes

Yes, mostly. Due to limited staffing, and equipment problems a minor amt. of sampling was not done. Final analyses/report writing cannot be completed until all results are back from UWSP lab.

Actions

Action	Detailed Description	Start	End Date	Status
Monitor EPA SP12 (Measure W)	Newton Creek (WBIC - 2843650) Hog Island Inlet (WBIC - 2751220)	07/01/2010	06/30/2011	PROPOSED

Monitoring Stations

Station ID	Name	Comments
163008	Newton Creek - 21st St Bel Murphy Oil	
163011	Newton Creek - E 11th St Superior	
163339	Newton Creek - Floodplain Fp-10	
163338	Newton Creek - Floodplain Park Area / Fp-9	
163274	Newton Creek - Nc-8 Near 3rd Street	
163308	Newton Creek - Reach A Nc-12	
163325	Newton Creek - Reach K Nc-29	
163327	Newton Creek - Reach L Nc-31	
10035013	Newton Creek NC-B	
10031895	Newton Creek just upstream of 6th St.	

Assessment Units

WBIC	Segment	Local Name	Official Name
2843650	1	Newton Creek	Newton Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
GL017	NEWTON CREEK	09/27/2012	12/31/2012
WT118	NEWTON CREEEK & HOG ISLAND INL	06/03/2010	06/30/2011

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Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
10/30/2003	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
10/30/2003	COMPLETE	Rep 1	10035013	Newton Creek NC-B
10/30/2003	COMPLETE	Rep 2	10035013	Newton Creek NC-B
10/30/2003	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
10/30/2003	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
10/30/2003	COMPLETE	Rep1	163011	Newton Creek - E 11th St Superior
06/03/2004	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
06/03/2004	COMPLETE	Rep 1	10035013	Newton Creek NC-B
06/03/2004	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
06/03/2004	COMPLETE	Rep 2	10035013	Newton Creek NC-B
06/03/2004	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
06/03/2004	COMPLETE	Rep1	163011	Newton Creek - E 11th St Superior
10/14/2004	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
10/14/2004	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
10/21/2004	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
10/21/2004	COMPLETE	Rep 1	10035013	Newton Creek NC-B
10/21/2004	COMPLETE	Rep 2	10035013	Newton Creek NC-B
10/21/2004	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
06/07/2005	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
06/07/2005	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
06/07/2005	COMPLETE	Rep 1	10035013	Newton Creek NC-B
06/07/2005	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
06/07/2005	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
06/07/2005	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/03/2005	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
11/03/2005	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
11/03/2005	COMPLETE	Rep 1	10035013	Newton Creek NC-B
11/03/2005	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
11/03/2005	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/03/2005	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
11/10/2006	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
11/10/2006	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
11/10/2006	COMPLETE	Rep 1	10035013	Newton Creek NC-B
11/10/2006	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
11/10/2006	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/10/2006	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
05/23/2007	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
05/23/2007	COMPLETE	Rep 1	10035013	Newton Creek NC-B
05/23/2007	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
05/23/2007	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
05/23/2007	COMPLETE	Rep 2	10035013	Newton Creek NC-B

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Start Date	Status	Field ID	Station ID	Station Name
05/23/2007	COMPLETE	Rep1	163011	Newton Creek - E 11th St Superior
11/20/2007	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
11/20/2007	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
11/20/2007	COMPLETE	Rep 1	10035013	Newton Creek NC-B
11/20/2007	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
11/20/2007	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/20/2007	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
05/21/2008	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
05/21/2008	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
05/21/2008	COMPLETE	Rep 1	10035013	Newton Creek NC-B
05/21/2008	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
05/21/2008	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
05/21/2008	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/04/2008	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
11/04/2008	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
11/04/2008	COMPLETE	Rep 1	10035013	Newton Creek NC-B
11/04/2008	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
11/04/2008	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/04/2008	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
06/03/2009	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
06/03/2009	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
06/03/2009	COMPLETE	Rep 1	10035013	Newton Creek NC-B
06/03/2009	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
06/03/2009	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
06/03/2009	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/03/2009	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
11/03/2009	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
11/03/2009	COMPLETE	Rep 1	10035013	Newton Creek NC-B
11/03/2009	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
11/03/2009	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/03/2009	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
08/05/2010 13:05	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
08/05/2010 13:35	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/18/2010 14:37	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
08/18/2010 14:55	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
09/20/2010 12:20	COMPLETE	NC-8	163274	Newton Creek - Nc-8 Near 3rd Street
09/20/2010 12:20	COMPLETE	NC-8	163274	Newton Creek - Nc-8 Near 3rd Street
09/20/2010 14:15	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
09/20/2010 14:15	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
09/27/2010	COMPLETE	NC-12	163308	Newton Creek - Reach A Nc-12
09/27/2010	COMPLETE	NC-12	163308	Newton Creek - Reach A Nc-12
10/06/2010 13:51	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
10/06/2010 14:00	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
10/14/2010 12:30	COMPLETE	NC-F10	163339	Newton Creek - Floodplain Fp-10
10/14/2010 12:30	COMPLETE	NC-F10	163339	Newton Creek - Floodplain Fp-10
10/14/2010 13:10	COMPLETE	NC-L31	163327	Newton Creek - Reach L Nc-31
10/14/2010 13:50	COMPLETE	NC-6ST	10031895	Newton Creek just upstream of 6th St.
10/14/2010 13:50	COMPLETE	NC-6ST	10031895	Newton Creek just upstream of 6th St.

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Start Date	Status	Field ID	Station ID	Station Name
10/26/2010 09:39	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
10/26/2010 10:00	COMPLETE	NC-2	163008	Newton Creek - 21st St Bel Murphy Oil
11/02/2010	COMPLETE	20101102-16-01	163325	Newton Creek - Reach K Nc-29
11/02/2010	COMPLETE	20101102-16-02	10031895	Newton Creek just upstream of 6th St.
11/03/2010	COMPLETE	Rep 1	10035013	Newton Creek NC-B
11/03/2010	COMPLETE	Rep 1	163011	Newton Creek - E 11th St Superior
11/03/2010	COMPLETE	Rep 1	163338	Newton Creek - Floodplain Park Area / Fp-9
11/03/2010	COMPLETE	Rep 2	10035013	Newton Creek NC-B
11/03/2010	COMPLETE	Rep 2	163011	Newton Creek - E 11th St Superior
11/03/2010	COMPLETE	Rep 2	163338	Newton Creek - Floodplain Park Area / Fp-9
11/16/2010	COMPLETE		163325	Newton Creek - Reach K Nc-29
11/16/2010	COMPLETE		163008	Newton Creek - 21st St Bel Murphy Oil
04/19/2011 11:30	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29
04/21/2011 09:59	COMPLETE	NC-1	163325	Newton Creek - Reach K Nc-29

Documents

Title	Description	Author	Published	Comments
2013 Low Level Mercury Sampling in Duluth-Superior Harbor, St Louis River AOC	Report on 2013 low-level mercury sampling of surface water during dredge material placement operations in Duluth-Superior Harbor	Joe Graham	12/31/2014	
Newton Creek and Hog Island Inlet Post-Remediation Assessment	Water quality, biological, and sediment monitoring 2008 - 2014 and condition assessment.	J. Graham, C. Roesler	08/01/2015	NOR_01_CMP09, NOR_18_CMP10, NOR_11_CMP11

Budget

Budget Description: Budget for Impaired Waters (303d) Evaluation and Monitoring for Biological Recovery of Newton Creek and Hog Island Inlet after Remediation - NOR_11_11	Start Date: 07/01/2010	End Date: 06/30/2011
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	80	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	325	Hours	\$14.00	\$4,550.00	Includes final report writing
LTE FR	LTE Fringe				\$1,123.85	
LTE IND	LTE Indirect				\$917.46	
LTE TOT	LTE Total Cost				\$6,591.31	
SUPPLY	Supplies	1		\$650.00	\$650.00	
MILEAGE	Mileage	100	Miles	\$0.72	\$72.00	
MEAL	Meals	25	Meals	\$6.50	\$162.50	Estimated 1/2 restaurant, 1/2 packed lunches.
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$234.50	
BUG	Bug Contracts	12		\$180.00	\$2,160.00	Invert sampling on Newton Creek by LSRI
OTHER	Other Contracts	30		\$286.67	\$8,600.10	Invert sampling on Hog Island Inlet, price/sample includes field staff wages/day, and cost of boat-truck/day.
EQUIP	Equipment				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$18,235.91	

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Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I380IS1	LEAD, ICP, DRY WT (SW846 6010B)	INORGANIC CHEMISTRY	10	\$21.45	\$214.50
I440NLD	AMMONIA (AS N), DISS (EPA 350.1)	INORGANIC CHEMISTRY	0	\$25.89	\$0.00
I460MLD	NITRATE+NITRITE (AS N), DISS (EPA 353.2)	INORGANIC CHEMISTRY	0	\$27.89	\$0.00
I470DLT	TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)	INORGANIC CHEMISTRY	0	\$32.99	\$0.00
I490HST	OIL & GREASE, SOXLET HEM, DRY WT (EPA 9071)	INORGANIC CHEMISTRY	10	\$178.75	\$1,787.50
I495ELT	PARTICLE SIZE (UW-EXT SOILS LAB; NON-CERTIFIED)	INORGANIC CHEMISTRY	10	\$51.84	\$518.40
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	0	\$23.60	\$0.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	0	\$18.80	\$0.00
I660NLT	TURBIDITY, NON-SDWA COMPLIANCE (SM 2130B)	INORGANIC CHEMISTRY	0	\$9.92	\$0.00
O1560A4	TOC IN SOIL/SED	ORGANIC CHEMISTRY	10	\$0.00	\$0.00
O1560P1	TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY - PREP	ORGANIC CHEMISTRY	10	\$104.75	\$1,047.50
O1580A2	PAHS IN SOIL/SED BY GC/MS	ORGANIC CHEMISTRY	10	\$0.00	\$0.00
O1580P1	PAHS IN SOIL-PREP	ORGANIC CHEMISTRY	10	\$383.20	\$3,832.00

Total SLOH Lab Costs: \$7,399.90

Total Budget: \$25,635.81

Combined Budgets: \$18,235.91

Combined SLOH: \$7,399.90

Combined Total: \$25,635.81

Funding

Organization	Source	Type	Amount	Start Date	End Date
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