

Wisconsin Department of Natural Resources

SWIMS Project Summary

General Project Information

Project ID: East_TWA_2_2015

Name: Oak Creek-Frontal Lake Michigan TWA WQM Plan (2017)

Type: Targeted Watershed Approach

Subtype: Evaluation (TP SSC, Stressor, Bioassess)

Status: COMPLETE

Start Date: 7/1/2015

End Date: 5/30/2017

Purpose: Oak Creek is the last watershed in the Root-Pike Basin that is slated for creation of a WQ Plan. SEWRPC has been approached by various entities to develop the plan and requests monitoring data to provide water condition data for the plan. The TWA monitoring was conducted in support of the Watershed Management Plan. This project involved conducting the HUC 12 level monitoring on Oak Creek and unnamed tributaries in Milwaukee County during 2015. [TWA 12-040400020102]

Read the <https://dnr.wi.gov/water/wsSWIMSDocument.ashx?documentSeqNo=145287521>>Oak Creek Watershed TWA WQ Plan.

Objective: Monitoring was conducted on nine locations on Oak Creek (WBIC 14500) and nearby tributaries (WBICs 14800 and 14900) for fish, qualitative habitat, and total phosphorus. An additional five phosphorus samples sites were monitored at pour point location. The attached (DRAFT) WQ Plan summarizes monitoring results and provides recommendations for future work.

Comments: HUC12 - 40400020102

Outcome: The number of sampling sites involve 9 Sampling events: 1 recon day, 4 fish sampling days, 1 macroinvertebrate sampling day, 5 pour point sampling trips. Sampling was completed by October 2015; pour point sampling will start April, 2015. Data will was entered by Craig Helker by December 2015. Summary report will be drafted by December 2017.

Study Design:

QA Measures: Standard DNR and SLOH protocols will be followed.

People

Name	Role	Status	Start Date	End Date	Organization	Comments
ELLIS, KRISTIE R	COORDINATOR	ACTIVE	7/1/2015	6/30/2017	Wisconsin DNR	
Helker, Craig D	COORDINATOR	ACTIVE	1/8/2015	12/31/2017	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	INACTIVE	11/23/2019	12/28/2022	Wisconsin DNR	
SABRE, RACHEL A	COORDINATOR	COMPLETE	7/1/2015	6/30/2017	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
1/30/2015	Craig Helker	Complete	Project Complete, draft report done.

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Project Status Detail

Answer Set: DEFAULT

Question	Answer
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?	

Actions

Action	Detailed Description	Start Date	End Date	Status
Monitor Targeted Watershed Area (TWA)	Oak Creek-Frontal Lake Michigan TWA WQM Plan 2017 Final Draft	1/1/2015	12/31/2015	COMPLETE
Watershed Mapping or Assessment	Biological, chemical, and physical assessment of Oak Creek in support of development of a Watershed Plan.	1/8/2015	12/31/2017	COMPLETE
Information and Education	Identify potential partners and stakeholders to participate in an overall awareness and behavioral change program in the watershed that result in reduced erosion and phosphorus inputs.	7/1/2015	5/30/2017	PROPOSED
Runoff Grant - Urban Nonpoint Source & Stormwater Management - Construction	Based on the results of the phosphorus and chlorides investigation/surveys, investigate / pursue local runoff management and river/stream grants to help initiate management actions that reduce inputs of these pollutants into water resources.	7/1/2015	5/30/2017	PROPOSED

Details: Parameter	Value/Amount	Units	Comments
Developed Urban Areas: Other (Please Specify)			
Fueling and Maintenance Areas: Oily sheen presence			
Infiltration: % Pre-development stay-on volume			
Infiltration: Cubic feet stay-on volume			
NR 216: 20-40% Reduction in TSS - % reduction			
NR 216: 20-40% Reduction in TSS - Pounds reduced			
Peak Flow Discharge: Change in cubic feet per second			
Protective Areas: Feet of bank protected			

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Details: Parameter	Value/Amount	Units	Comments		
Streambanks: Feet of bank protected					
Streambanks: Tons of bank erosion reduced					
non NR 216: 20-40% Reduction in TSS - % reduction					
non NR 216: 20-40% Reduction in TSS - Pounds reduced					
Habitat Restoration - Shoreland	Work with partners and state pass through grant programs to encourage local entities to seek funds to support habitat restoration and corridor continuity.	7/1/2015	5/30/2017	PROPOSED	

Details: Parameter	Value/Amount	Units	Comments		
Shoreline feet restored/enhanced					
Shoreland Monitoring, Assessment, Inventory	Through monitoring, investigations and possibly modeling identify the primary sources of phosphorus and chlorides in the watershed.	7/1/2015	5/30/2017	PROPOSED	
Monitor or Assess Watershed Condition	Work with local area experts and multiple program DNR staff to identify areas throughout the watershed where stream habitat can be restored and connectivity improved.	7/1/2015	5/30/2017	PROPOSED	
Water Quality Planning	Oak Creek-Frontal Lake Michigan TWA WQM Plan (2017)	7/1/2017		COMPLETE	

Details: Parameter	Value/Amount	Units	Comments		
Degraded Biological Community					
Total Phosphorus					
Engage Volunteers in Monitoring/Restoration	Continue to support Citizen Based Monitoring volunteer efforts to track total phosphorus and chloride in Oak Creek and tributaries.	1/15/2018		PROPOSED	
Monitor Water Quality or Sediment	Water quality biologists should continue to monitor Oak Creek and tributaries in order to document existing conditions and capture the potential improvements from BMP installations.	1/15/2018		PROPOSED	
Engage Volunteers in Monitoring/Restoration	Recruit Citizen-Based Stream Monitors to assist with on-going Watershed monitoring.	1/15/2018		PROPOSED	
Monitor Water Quality or Sediment	Monitor dissolved oxygen conditions on Mitchell Field Drainage Ditch.	1/15/2018		PROPOSED	
TMDL Monitoring	Review wastewater and stormwater discharges in the watershed for compliance.	1/15/2018		PROPOSED	

Monitoring Stations

Station ID	Name	Comments
10008241	Mitchell Field Drainage Ditch	
10044177	North Branch Oak Creek along 6th St	
10011237	Oak Creek - Oak Creek at 13th Street(124m Downstream)	

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10009331	Oak Creek 1 At Pennsylvania Ave	
413913	Oak Creek US of 15th Ave N of Beech St	
10039495	Oak Creek at Puetz Rd	
413074	Oak Creek at Puetz Rd And Rr Track	
10044098	Oak Creek at Ryan Ave	
10010371	Oak Creek1at Beach Bridge (63m Upstream)	

Assessment Units

WBIC	Segment	Local Name	Official Name
20	1	South Shore Beach, Lake Michigan	Lake Michigan
20	12	Lake Michigan	Lake Michigan
20	14	Bender Beach, Lake Michigan	Lake Michigan
20	20	Eichelman Beach, Lake Michigan	Lake Michigan
20	22	Grant Park Beach, Lake Michigan	Lake Michigan
20	26	Pennoyer Park Beach, Lake Michigan	Lake Michigan
20	27	Simmons Island Beach, Lake Michigan	Lake Michigan
20	32	Alford Park Beach, Lake Michigan	Lake Michigan
20	38	Southport Park Beach, Lake Michigan	Lake Michigan
20	40	Bayview Park Beach, Lake Michigan	Lake Michigan
20	91	Shoop Park Beach, Lake Michigan	Lake Michigan
20	92	Wind Point Lighthouse Beach	Lake Michigan
20	94	Lake Michigan - Parkway (Racine Beach) 52-004	Lake Michigan
20	95	Prairie Shores / Lakeshore Drive Beach	Lake Michigan
22	1	Kenosha Harbor	Kenosha Harbor
28	1	Milwaukee Harbor	Milwaukee Harbor
100	1	Gravel Pit Lake	Gravel Pit Lake
300	1	Lower Kelly Lake	Lower Kelly Lake
330	1	Un Lake	Pritchard Park Pond
340	1	Un Lake	Lockwood Park Pond
350	1	Un Lake	Reservoir Park Pond
370	1	Un Lake	Unnamed
390	1	Un Lake	Unnamed
400	1	Unnamed Lake	Quarry Lake
500	1	Runway Bay	Runaway Bay
510	1	Unnamed Creek	Unnamed
600	1	Local Water	Unnamed

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700	1	Barnes Creek	Barnes Creek
1000	1	Un Lake	Unnamed
1200	1	Pike Creek	Pike Creek
1300	1	Pike River	Pike River
1300	2	Pike River	Pike River
1350	1	Kenosha Branch Of Pike River	Unnamed
1400	1	Sorenson Creek	Unnamed
1500	1	Unnamed	Unnamed
1800	1	Petrified Springs Park Pond	Petrified Springs Park Pond
1900	1	North Branch Of Pike River	North Branch Pike River
1900	2	North Branch Pike River	North Branch Pike River
2100	1	Unnamed Stream	Unnamed
2300	1	Waxdale Creek	Unnamed
2400	1	Unnamed Stream	Unnamed
2450	1	Local Water	Unnamed
2500	1	South Branch of Pike River	South Branch Pike River
2600	1	Unnamed	Unnamed
2700	1	Somers Tributary To S Br Pike River	Unnamed
2800	2	Unnamed Trib to S Br Pike River	Unnamed
2825	1	Airport Tributary	Unnamed
2900	1	Root River	Root River
2900	2	Root River	Root River
2900	3	Root River	Root River
2900	4	Root River	Root River
3100	1	Hoods Creek	Hoods Creek
3300	1	Ives Grove Ditch to Hoods Creek	Unnamed
3355	1	Unnamed Stream	Unnamed
3385	1	Unnamed	Unnamed
3500	1	Husher Creek (Hoosier)	Husher Creek
3500	2	Husher Creek	Husher Creek
3510	1	Local Water	Unnamed
3600	1	Kilbournville Trib	Unnamed
3800	1	Mid. Oakwood Golf Course P	Mid. Oakwood Golf Course P
4000	1	South Oakwood Golf Course Pond	South Oakwood Golf Course Pond
4200	1	North Oakwood Golf Course Pond	North Oakwood Golf Course Pond

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4300	1	Root River Canal	Root River Canal
4350	1	Local Water	Unnamed
4500	1	West Branch Root River Canal	West Branch Root River Canal
4500	2	West Branch Root River Canal	West Branch Root River Canal
4500	3	West Branch Root River Canal	West Branch Root River Canal
4500	4	West Branch Root River Canal	West Branch Root River Canal
4600	1	Raymond Creek	Raymond Creek
4705	1	Unnamed Tributary to the West Branch Root River	Unnamed
4800	1	Yorkville Trib	Unnamed
4840	1	Unnamed Trib to W Br Root River Canal	Unnamed
4900	1	East Branch Root River Canal	East Branch Root River Canal
4900	2	East Branch Root River Canal	East Branch Root River Canal
5100	1	Ryan Creek	Ryan Creek
5200	1	Dumkes Lake	Dumkes Lake
5300	1	Franklin Trib	Unnamed
5350	1	Un Lake	Unnamed
5500	1	Mud Lake	Mud Lake
5550	1	Legend Creek	Legend Creek
5700	1	Root River Parkway Pond	Root River Parkway Pond
5900	1	Koepmier Lake	Koepmier Lake
6000	1	Dale Creek	Dale Creek
6100	1	Scout Lake	Scout Lake
6200	1	Tess Corners Creek	Unnamed
6300	1	Local Water	Unnamed
6500	1	Boerner Bot. Garden Pond No.1	Boerner Bot Gdn Pond No. 1
6700	1	Boerner Bot. Garden Pond No.2	Boerner Bot Gdn Pond No. 2
7100	1	Upper Kelly Lake	Upper Kelly Lake
7300	1	Whitnall Park Pond	Whitnall Park Pond
7500	1	Monastery Lake	Monastery Lake
7600	1	Un Lake	Unnamed
7635	1	Wildcat Creek	Unnamed
7670	1	Unnamed Stream	Unnamed
7700	1	Unnamed Stream	Unnamed
7800	1	Unnamed Stream	Unnamed
7800	2	DUPLICATE	Unnamed

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7825	1	Unnamed Stream	Unnamed
7840	1	Local Water	Unnamed
11700	1	Sheridan Park Pond	Sheridan Park Pond
14500	1	Oak Creek	Oak Creek
14700	1	Oak Creek Parkway Pond	Oak Creek Parkway Pond
14800	1	Mitchell Field Ditch	Unnamed
14800	2	Mitchell Field Ditch	Unnamed
14900	2	North Branch Oak Creek	Unnamed
742240	1	Un Lake	Unnamed
3000082	1	Lincoln Park Pond	Lincoln Park Pond
3000341	1	Local Water	Unnamed
3000518	1	Dominican Creek	Unnamed
5036265	1	Hale Creek	Unnamed
5036469	1	Unnamed Stream	Unnamed
5037118	1	Local Water	Unnamed
5037240	1	Local Water	Unnamed
5037305	1	Local Water	Unnamed
5037407	1	Local Water	Unnamed
5037597	1	Local Water	Unnamed
5037655	1	Local Water	Unnamed
5037694	1	Local Water	Unnamed
5037792	1	Local Water	Unnamed
5037797	1	Unnamed Stream	Unnamed
5037833	1	Local Water	Unnamed
5038138	1	Unnamed Stream	Unnamed
5038429	1	Unnamed Stream	Unnamed
5038451	1	Local Water	Unnamed
5038458	1	Local Water	Unnamed
5038857	1	Local Water	Unnamed
5039510	1	Unnamed Stream	Unnamed
5039760	1	Unnamed Stream	Unnamed
5039936	1	Unnamed Stream	Unnamed
5040395	1	Unnamed	Unnamed
5040437	1	Unnamed	Unnamed
5040442	1	Unnamed	Unnamed

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5040492	1	Unnamed	Unnamed
5576428	1	Unnamed Lake	Unnamed
5576479	1	Local Water	Unnamed
5576495	1	Local Water	Unnamed
5576523	1	Unnamed Lake	Unnamed
5576584	1	Unnamed	Unnamed
5576636	1	Local Water	Unnamed
5576657	1	Local Water	Unnamed
5576672	1	Local Water	Unnamed
5576682	1	Unnamed	Unnamed
5576685	1	Local Water	Unnamed
5576690	1	Lake Brittany	Lake Brittany
5576707	1	Local Water	Unnamed
5576877	1	Local Water	Unnamed
5576946	1	Local Water	Unnamed
5576991	1	Unnamed Lake	Unnamed
5577024	1	Local Water	Unnamed
5577038	1	Local Water	Unnamed
5577146	1	Local Water	Unnamed
5577409	1	Local Water	Unnamed
5577746	1	Local Water	Unnamed
5578068	1	Local Water	Unnamed
5578093	1	Local Water	Unnamed
5578156	1	Unnamed Lake	Unnamed
5578188	1	Local Water	Unnamed
5578191	1	Local Water	Unnamed
5578195	1	Local Water	Unnamed
5578198	1	Unnamed	Unnamed
5578317	1	Local Water	Unnamed
5578434	1	Local Water	Unnamed
5578565	1	Local Water	Unnamed
5578724	1	Local Water	Unnamed
5578732	1	Local Water	Unnamed
5578788	1	Local Water	Unnamed
5578875	1	Local Water	Unnamed

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5578935	1	Local Water	Unnamed
5579123	1	Local Water	Unnamed
5579160	1	Local Water	Unnamed
5579165	1	Local Water	Unnamed
5579169	1	Local Water	Unnamed
5579177	1	Local Water	Unnamed
5579181	1	Local Water	Unnamed
5579218	1	Local Water	Unnamed
5579246	1	Local Water	Unnamed
5579698	1	Local Water	Unnamed
5579710	1	Local Water	Unnamed
5580242	1	Local Water	Unnamed
5580295	1	Local Water	Unnamed
5580719	1	Local Water	Unnamed
5580904	1	Local Water	Unnamed
5588787	1	Local Water	Unnamed
5588789	1	Local Water	Unnamed
5590267	1	Local Water	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	3/26/2014	6/30/2017

Forms

Form Code	Form Name
FIELD CHEMISTRY FORM	Field Chemistry Form
INORGANIC	Inorganic Lab - Field Data
CBSM-TEST	Macroinvertebrate Field Data
WT-001-2010	Stream Baseflow Data

Methods

Method Code	Method Description
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker
HABITAT SURVEY BASELINE PROTOCOLS	Habitat Baseline Survey Quantitative 2004
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

Fieldwork Events

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Start Date	Status	Field ID	Station ID	Station Name
5/26/2015 12:20	COMPLETE	OC-1	10010371	Oak Creek1at Beach Bridge (63m Upstream)
6/9/2015 11:05	COMPLETE	OC-1	10010371	Oak Creek1at Beach Bridge (63m Upstream)
6/24/2015 11:05	COMPLETE	OC-7	10008241	Mitchell Field Drainage Ditch
6/24/2015 13:00	COMPLETE	OC-6	10039495	Oak Creek at Puetz Rd
7/29/2015	COMPLETE	OC-01	10010371	Oak Creek1at Beach Bridge (63m Upstream)
8/20/2015	COMPLETE		413913	Oak Creek US of 15th Ave N of Beech St
8/20/2015 9:44	COMPLETE	OC@15TH	413913	Oak Creek US of 15th Ave N of Beech St
8/25/2015 13:09	COMPLETE	2015-0825-02	10011237	Oak Creek - Oak Creek at 13th Street(124m Downstream)
8/25/2015 13:37	COMPLETE	20150825-03	10009331	Oak Creek 1 At Pennsylvania Ave
8/25/2015 14:05	COMPLETE	20150825-04	10010371	Oak Creek1at Beach Bridge (63m Upstream)
8/28/2015 15:00	COMPLETE	NA	413074	Oak Creek at Puetz Rd And Rr Track
10/22/2015	COMPLETE		10008241	Mitchell Field Drainage Ditch
10/22/2015	COMPLETE		10010371	Oak Creek1at Beach Bridge (63m Upstream)
10/22/2015	COMPLETE		10044098	Oak Creek at Ryan Ave
10/22/2015	COMPLETE		413913	Oak Creek US of 15th Ave N of Beech St
10/22/2015	COMPLETE		10009331	Oak Creek 1 At Pennsylvania Ave
10/22/2015	COMPLETE		10011237	Oak Creek - Oak Creek at 13th Street(124m Downstream)
10/22/2015 11:00	COMPLETE	OC-08	10044098	Oak Creek at Ryan Ave
10/22/2015 11:45	COMPLETE	OC-09	10044177	North Branch Oak Creek along 6th St
10/22/2015 13:00	COMPLETE	OC-01	10010371	Oak Creek1at Beach Bridge (63m Upstream)
11/5/2015	COMPLETE		10039495	Oak Creek at Puetz Rd
11/5/2015	COMPLETE		413074	Oak Creek at Puetz Rd And Rr Track
11/5/2015	COMPLETE		10044177	North Branch Oak Creek along 6th St

Documents

Title	Description	Author	Published	Comments
Mitchell Field Drainage Ditch 10008241, 2017 NC Validation	Mitchell Field Drainage Ditch 10008241, 2017 NC Validation	Helker, Craig	5/2/2017	
North Branch Oak Creek along 6th Street 10044177, 2017 NC Validation	North Branch Oak Creek along 6th Street 10044177, 2017 NC Validation	Helker, Craig	5/2/2017	
North Branch Oak Creek at Puetz 10039495, 2017 NC Validations	North Branch Oak Creek at Puetz 10039495, 2017 NC Validations	Helker, Craig	5/2/2017	
Oak Creek - Oak Creek at 13th Street (124m Downstream) NC Validation 2016	Oak Creek - Oak Creek at 13th Street (124m Downstream) NC Validation 2016	Helker, Craig	4/12/2017	

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Oak Creek US of 15th Ave N of Beech St NC Validation Spreadsheet 2015	Oak Creek US of 15th Ave N of Beech St NC Validation Spreadsheet 2015	Helker, Craig	4/12/2017	
Oak Creek Upstream of Pennsylvania Avenue Photo	Oak Creek Upstream of Pennsylvania Avenue Photo	Helker, Craig	5/25/2017	
Oak Creek at 13th Street (124m Downstream) NC Validation 2017	Oak Creek - Oak Creek at 13th Street (124m Downstream)	Helker, Craig	5/2/2017	
Oak Creek at Beach Bridge 10010371, NC Validation 2017	Oak Creek at Beach Bridge 10010371, NC Validation 2017	Helker, Craig	4/5/2017	
Oak Creek at Pennsylvania (14500) photo by Craig Helker	Oak Creek at Pennsylvania (14500) photo by Craig Helker	Helker, Craig	1/1/2015	
Oak Creek at Pennsylvania (2) (14500) photo by Craig Helker	Oak Creek at Pennsylvania (2) (14500) photo by Craig Helker	Helker, Craig	1/1/2015	
Oak Creek at Pennsylvania 2 -photo small_learnmore	Oak Creek at Pennsylvania 2- small_learnmore	Helker, Craig	6/5/2017	
Oak Creek at Pennsylvania Ave 10009331, 2017 NC Validation	Oak Creek at Pennsylvania Ave 10009331, 2017 NC Validation	Helker, Craig	5/2/2017	
Oak Creek at Pennsylvania-SMALL_goals	Oak Creek at Pennsylvania-SMALL_goals	Helker, Craig	6/5/2017	
Oak Creek at Puetz and RR tracks 413074, 2017 NC Validation	Oak Creek at Puetz and RR tracks 413074, 2017 NC Validation	Helker, Craig	5/2/2017	
Oak Creek at Ryan Road 10044098, 2017 NC Validation	Oak Creek at Ryan Road 10044098, 2017 NC Validation	Helker, Craig	5/2/2017	
Oak Creek-Frontal Lake Michigan TWA WQM Plan 2017 [SE05]	Assessments and recommendations for the Watershed. Oak Creek-Frontal Lake Michigan TWA WQM Plan 2017	WDNR	5/25/2017	
Oak Creek-Frontal Lake Michigan TWA WQM Plan Presentation 2017 [SE05]	Oak Creek-Frontal Lake Michigan TWA WQM Plan 2017 Presentation	WDNR	8/10/2017	

Budget

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Budget Description: Oak Creek TWA FY2016 Start Date: 7/1/2015 End Date: 12/31/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	150	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	40	Hours	\$13.00	\$520.00	
LTE FR	LTE Fringe				\$128.44	
LTE IND	LTE Indirect				\$104.85	
LTE TOT	LTE Total Cost				\$753.29	
SUPPLY	Supplies			\$500.00	\$0.00	Waders, lab supplies, sample shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	1000	Miles	\$0.72	\$720.00	
MEAL	Meals	12	Meals	\$9.00	\$108.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$828.00	
BUG	Bug Contracts	9		\$180.00	\$1,620.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$3,201.29	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	14	\$23.60	\$330.40

Total WSLH Lab Costs: \$330.40
Total Budget: \$3,531.69

Combined Budgets: \$3,201.29
Combined WSLH: \$330.40
Combined Total: \$3,531.69

Funding					
Organization	Source	Type	Amount	Start Date	End Date