General Project Information

Project ID: ARRA_Project_18C WTDT

Name: SEWRPC SWEET Water Trust ARRA 18C

Type: Grant Project

Subtype: ARRA Pass Through Project

Status: ACTIVE Start Date: 10/01/2009 End Date: 12/31/2010

Purpose: SEWRPC Contract - Supplemental funds for water quality planning in designated management areas; expedite updates

for additional urban service areas with intense development pressures; contract with Southeast Wisconsin Regional

Planning Commission.

Objective: The Southeastern Wisconsin Regional Planning Commission would pass through the 604 (b) funding to the consultant

doing the Kinnickinnic River Watershed Restoration Plan for the Southeastern Wisconsin Watersheds Trust (SWWT). The consultant would also provide the information to Milwaukee Metropolitan Sewerage District to incorporate into their Kinnickinnic River Watercourse Flood Control Study.

1) To integrate the use of non-structural best management practices widely known as green infrastructure into the planning and implementation process of the Kinnickinnic Watershed Restoration Plan (WRP) process for two subwatershed: Villa Mann Creek and Holmes Avenue Creek.

2) To model using the ¿blanket approach ¿ of green infrastructure for the two subwatersheds showing where implementation of practices would benefit water quality and quantity in the stream.

3) To integrate the use of green infrastructure practices into the Kinnickinnic Watercourse Flood Study for the two subwatersheds.

4) To identify areas in the two watersheds where the ¿blanketing¿ approach of green infrastructure would benefit water quality and water quantity goals.

Comments:

- Outcome: 1) Completion of the green infrastructure practices ¿blanketing, modeling results for Villa Mann and Holmes Avenue Creek subwatersheds.
 - 2) Incorporation of the green infrastructure practices ¿blanketing¿ modeling results into both the Kinnickinnic River WRP and the Kinnickinnic River Watercourse Study
 - 3) Identification of green infrastructure practices by area in each of the subwatersheds that show the greatest water quality and water quantity benefit for the stream
 - 4) Summarize results in a report on the effectiveness of using a blanket green infrastructure practices approach.
 - 5) Recommend a green infrastructure pilot project (if benefits are found through this analysis) to the Southeastern Wisconsin Watershed Trust for implementation.

Project Statuses

Date	Reported By	Status	Comments
04/23/2010	LISAHELMUTH	Progress: 0-25% Comple	Contract is signed.
04/26/2010	LISA HELMUTH	Progress: 0-25% Comple	The Milwaukee Metropolitan Sewerage District (MMSD) issued the Notice to Proceed to HNTB on February 15, 2010. A kickoff discussion was held on March 5, 2010 between HNTB, Tetra Tech, and MMSD to discuss the project tasks and which stormwater best management practices (BMPs) should be used in the proposed water quantity and quality modeling of the Villa Mann Creek and the Holmes Ave Creek subwatersheds. The BMPs selected and the scenarios developed are summarized below in Task 1. The scenarios will be run for both the Holmes Ave Creek and the Villa Mann Creek subwatersheds.
07/01/2010	Elizabeth Larsen	Progress: 25-50% Compl	7 WO GIOGRANA MIC VIIIA WAITII GIOGRADWALGIGIIGAG.
10/25/2010	Elizabeth Larsen	Progress: 75-100% Comp	Tetra Tech and HNTB have completed the modeling of the four scenarios described in Task 1. A draft report summarizing these results was completed on June 4, 2010, and submitted to MMSD for review. MMSD provided initial comments in July 2010 and HNTB incorporated these comments into a final draft report that

Date	Reported By	Status	Comments was submitted on August 20, 2010. This final draft report is currently being reviewed by MMSD. Task 1. Develop Scenarios to Evaluate Flood Flow and/or Water Quality Impacts Scenarios that include low impact development (LID) stormwater management practices were developed for the area east of S. 13 Street in the Holmes Ave Creek subwatershed and for the entire Villa Mann Creek subwatershed. Water quantity and quality impacts were evaluated in the Holmes Avenue Creek subwatershed and water quality impacts were evaluated in the Villa Mann Creek subwatershed. In summary, the following scenarios were developed: 1. 25% of parking lot areas with storage —apply to 50% of parking lots and use 50% of the area in each for storage. A depth of 4 inch was considered acceptable for the parking lot storage 2. 25% of commercial/industrial roofs with storage. A 6 inch depth is used for the roof storage based on the 2020 Facilities Plan State of the Art Report.		
			In addition, a fourth scenario was developed which replaced parking lot storage with porous pavement in scenario No. 3. All four scenarios built off of the Extreme Measures run from the Southeastern Wisconsin Regional Planning Commission's (SEWRPC) Regional Water Quality Management Plan Update (RWQMPU). This task was completed in the first quarter of 2010. Task 2. Run Scenarios		
			The scenarios described in Task 1 were modeled by Tetra Tech in the second quarter of 2010. The results of these model runs were summarized under Task 3 and are currently being reviewed by MMSD. Task 3. Process and Interpret Results The results from the model runs were summarized in a draft report prepared by Tetra Tech and HNTB and submitted to MMSD. MMSD provided comments to HNTB which they incorporated into		
			the final draft report which was submitted to MMSD on August 20, 2010. This final draft report is currently being reviewed by MMSD. It is anticipated that MMSD's review will be completed and the final draft report will be submitted to SEWRPC by November 1, 2010. Project Issues No issues to date.		
10/26/2010	Elizabeth Larsen	Progress: 75-100% Com _l	Tetra Tech and HNTB have completed the modeling of the four scenarios described in Task 1. A draft report summarizing these results was completed on June 4, 2010, and submitted to MMSD for review. MMSD provided initial comments in July 2010 and HNTB incorporated these comments into a final draft report that		

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Reported By **Date Status** Comments

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Scenarios that include low impact development (LID) stormwater management practices were developed for the area east of S. 13 Street in the Holmes Ave Creek subwatershed and for the entire Villa Mann Creek subwatershed. Water quantity and quality impacts were evaluated in the Holmes Avenue Creek subwatershed and water quality impacts were evaluated in the Villa Mann Creek subwatershed. In summary, the following scenarios were developed:

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- 2.25% of commercial/industrial roofs with storage. A 6 inch depth is used for the roof storage based on the 2020 Facilities Plan State of the Art Report.
- 3. Combine 1 and 2.

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This task was completed in the first quarter of 2010.

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Task 3. Process and Interpret Results

The results from the model runs were summarized in a draft report prepared by Tetra Tech and HNTB and submitted to MMSD. MMSD provided comments to HNTB which they incorporated into the final draft report which was submitted to MMSD on August 20, 2010. This final draft report is currently being reviewed by MMSD. It is anticipated that MMSD's review will be completed and the final draft report will be submitted to SEWRPC by November 1, 2010.

Project Issues

No issues to date.

Project Status Detail

Question Answer

1. Reporting Timeframe (Q1 (Oct-Dec), Q2 (Jan-Mar), Q3 (Apr-June), Q4 (July-Sept):

2. Amount expended this time period:

3. Subcontracts or subgrants awarded this period:

4. Number work hours created or maintained to date:

5. Work accomplished this reporting period:

Q4 (July - Sept)

No request for funding at this time.

Yes, Subcontract was signed and is moving forward.

Tetra Tech and HNTB have completed the modeling of the four

Question

Answer

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This task was completed in the first quarter of 2010

6. Work goals for coming reporting period:

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Task 3. Process and Interpret Results

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8. WDNR Question: Job equivalent Created

People

7. Overall project status:

Name Role Status Start Date End Date Organization Comments

Role Status **Start Date** End Date Organization Comments Name

COORDINATOR ACTIVE HELMUTH, LISA D 10/01/2009 Wisconsin DNR

Larsen, Elizabeth COORDINATOR ACTIVE **SEWRPC** 07/07/2010

Actions

Action **Detailed Description Start Date End Date Status**

Monitoring Stations

Station ID Name Comments

Assessment Units

WBIC Segment **Local Name Official Name**

Lab Account Codes

Account Code Description **Start Date End Date**

Forms

Form Code Form Name

Methods

Method Code Description

Fieldwork Events

Start Date Status Field ID Station ID **Station Name**

Documents

032310 ARRA 18C

Title Description Author **Published** Comments ARRA 18C SEWRPC 10/29/2009 SWEET Water Trust ARRA 18C SEWRPC SWEET Water Trust Project Description ARRA_18C_Q2FFY10_Rep **WDNR** 04/28/2010 ARRA_18C_Q3FFY10_Rep 07/30/2010 MMSD LETTER HAHN, MICHAEL 04/26/2010 AGREEMENT ARRA PROJECT - VMC & HAC MMSD LETTER HAHN, MICHAEL 04/26/2010 AGREEMENT ARRA PROJECT - VMC & HAC Exhibit A HAHN, MICHAEL 04/26/2010 MMSD LETTER AGREEMENT ARRA PROJECT - VMC & HAC Exhibit B 04/26/2010 WPC Modeling HAHN, MICHAEL task_quarterly report

November 2, 2010

Wisconsin Department of Natural Resources SWIMS Project Summary

Budget								
Code	Description	Quantity	Units	Unit Cost	Total Cost			
Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost			

Total SLOH Lab Costs: \$0.00