

QUARTERLY PROGRESS REPORT

Project Title:	Stormwater System Monitoring and Evaluation		
RFP NUMBER: 2007-10	NJDOT RESEARCH PROJECT MANAGER: Edward Kondrath		
TASK ORDER NUMBER: TO 200 / RU Acct 4-28300	PRINCIPAL INVESTIGATOR: Dr. Qizhong (George) Guo		
Project Starting Date: 01/01/2007 Original Project Ending Date: 12/31/2008 Modified Completion Date: 10/31/2009	Period Covered: 4 th Quarter 2009-FINAL		

Task #	Task	% of Total	Fixed Budget	% of Task this quarter	Cost this quarter	% of Task to date	Total cost to date
1	Mobilization	1.61%	\$ 3,000	0.0%	\$ -	100.0%	\$ 3,000
2	Pre Literature Search	1.61%	\$ 3,000	0.0%	\$ -	100.0%	\$ 3,000
3	1. LITERATURE SEARCH	6.99%	\$ 13,000	0.0%	\$ -	100.0%	\$ 13,000
4	2. TECHNICAL PANEL	5.37%	\$ 10,000	0.0%	\$ -	100.0%	\$ 10,000
5	3. THREE REGIONS	8.60%	\$ 16,000	0.0%	\$ -	100.0%	\$ 16,000
6	4. REPRESENTATIVE DEVICES	5.37%	\$ 10,000	0.0%	\$ -	100.0%	\$ 10,000
7	5. PRE-MONITORING CLEAN-OUT	5.37%	\$ 10,000	0.0%	\$ -	100.0%	\$ 10,000
8	6. MONITORING AND ANALYSIS	40.31%	\$ 75,000	0.0%	\$ -	100.0%	\$ 75,000
9	7. MAINTENANCE GUIDANCE	6.99%	\$ 13,000	0.0%	\$ -	100.0%	\$ 13,000
10	8. Final Report and Quarterly Reporting	17.78%	\$ 33,080	30.0%	\$ 9,924	100.0%	\$ 33,080
11		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
12		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
13		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
14		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
15		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
16		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
17		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
18		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
19		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
20		0.00%	\$ -	0.0%	\$ -	0.0%	\$ -
	TOTAL	100.00%	\$ 186,080		\$ 9,924		\$ 186,080

Blue text is entered once at the beginning of the project

Green text is updated ever quarter

Black text is automatically updated or static

Project Objectives:

1. Monitor the amounts of sediment, oil, grease, and buoyant debris that would be actually trapped in the stormwater treatment system units installed by NJDOT.
2. Relate the trapped amounts of sediment, oil, grease, and buoyant debris to highway drainage area characteristics.
3. Provide NJDOT with quantitative guidance on the maintenance/cleanup schedule and measures to reduce maintenance/cleanup frequency.

Project Abstract:

To improve the quality of highway runoff and meet the new stormwater management requirements, the New Jersey Department of Transportation (NJDOT) has installed numerous prefabricated stormwater treatment systems throughout the state produced by a range of manufacturers. The use of such systems, known as Manufactured Treatment Devices (MTDs), is expected to continue in the foreseeable future. As the responsible party for the maintenance of these MTDs, NJDOT is interested in determining optimum maintenance intervals and expected maintenance costs for the range of MTDs utilized by the Department. This project will monitor and document maintenance procedures, intervals, and costs for a representative range of MTDs.

1. Progress this quarter by task:

The draft Final Report was submitted, reviewed, and revised. Final Report was submitted.

2. Proposed activities for next quarter by task:

None.

3. List of deliverables provided in this quarter by task (product date):

Draft Final Report and Final Report.

4. Progress on Implementation and Training Activities:

1) The NJDOT maintenance personnel were involved in the actual cleanout of the devices. The NJDOT maintenance personnel as well as the contractors gained the valuable field maintenance experience.

2) Early observations and suggestions on maintenance accessibility and interval were provided to NJDOT. The NJDOT was suggested to add manufactured treatment devices into the highway database

such as the “Straight Line Diagrams,” to additionally consider device accessibility during design and construction despite other constraints, and to minimize the amount of gross solids that would enter the devices.

- 3) A device inspection form was made and provided to NJDOT Maintenance Division for their use.
- 4) A field trip was organized for the NJDOT personnel to Montgomery County, Maryland on June 5, 2008 to observe their maintenance program on stormwater manufactured treatment devices.
- 5) Progress of the project and early observations and recommendations were presented at the NJDOT Research Showcase on November 28, 2007 as well as on October 16, 2008.

5. Problems/Proposed Solutions:

None.

Year 1 Budget	\$186,080
Years 1 & 2 Cumulative Budget	
Years 1, 2 & 3 Cumulative Budget	
Total Project Budget	\$186,080
Modified Contract Amount:	\$186,080
Total Project Expenditure to date	\$186,080
% of Total Project Budget Expended	100.00%

NJDOT Research Project Manager Concurrence: _____ Date: _____