

Municipality/Organization: Hudson, MA

EPA NPDES Permit Number: MA 041198/MaDEP

MaDEP Transmittal Number: W- 036113

**Annual Report Number
& Reporting Period:** No. 3: March 05-March 06

JUN 02 2006

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Max Kamel

Title: Assistant DPW Director

Telephone #: (978) 562-9333

Email: Mkamel@TownofHudson.org

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Minimum Control Measures

and Outreach

Item	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
Reports to residents	DPW and SuAsCo	Flyer distributed to 75% of residents and compile survey results	Survey was sent back to SuAsCo to compile multi-watershed-wide “survey” results	
Education on	Hudson School Dept and SuAsCo	Develop & distribute lesson plan to 5 th grader teachers	The School Dept. is working to implement the plan for Fall 06	
Presentations to businesses	DPW and SuAsCo	Flyer distributed to 50% of businesses & have stormwater logos displayed at business	Presentations were made to both the Rotary Club and Local Chamber of Commerce.	
Media lia	DPW and SuAsCo	Media info packet delivered to local media and generate 4 press releases for major media outlets	Continue development with the local media outlets.	Develop a media info packet and generate press releases in cooperation with SuAsCo
Video	DPW and SuAsCo	Show storm water video @ 1 public meeting and on local cable stations	Developed a slideshow presentation. Coordinate efforts with EPA to obtain Videotape(s) to be aired at local cable stations.	Continue airing stormwater video and slideshow presentation on local cable stations

it and Participation

	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
eling	DPW and SuAsCo	Circulate display for 3 months in permit year #1	Display was presented at Town Meeting and other public activities such as RiverFest.	Continue to display at Town Meeting and other public activities such as RiverFest.
er ders	SuAsCo & Hudson School Dept	Contest is held and entries are received, judged, & displayed	Contest is postponed till Fall 06	Implementation of the contest for the fall 06
o chool	SuAsCo & Hudson School Dept.	Contest is held and entries are received, judged, & displayed	Contest is postponed till September 06	Implementation of the contest for September 06
nit	DPW & SuAsCo	Hold local or multi-community summit & encourage community to attend	SuAsCo sponsored an event to promote stormwater awareness	Continue discussion with SuAsCo to sponsor another event.
r ict an	DPW & SuAsCo	Municipal participation in Summit, self-test distributed to 75% of residents, compile test results	SuAsCo sponsored an event to promote stormwater awareness	Continue discussion with SuAsCo to sponsor a similar event.
lic ness				

Detection and Elimination

n	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
utfalls ers	DPW	Map all outfalls and incorporate into GIS	Approximately 85-90% of the outfalls, CB's, and DMH's have been identified and placed on a paper map	Continue to map and incorporate into our GIS/CAD system.
ng	DPW	Locate all structures and develop rating & maintenance plan	Have started a database on all structures and outfalls identified and develop a module to adapt to the GIS system	Continue compiling the database
ement inance	DPW & Town Boards	Have an ordinance adopted within 12 months	Continued discussions with the newly hired Town Planner and Conservation Agent and work towards adopting an ordinance	Continue discussions and work towards adopting an ordinance
sses of	DPW	To inform who, what, where, and how to detect an illicit discharge	Have started developing a system of how we are going to attack the identification of illicit discharges.	Continue developing our system. Develop an educational document to distribute to employees, businesses to serve as a tool to in the illicit discharge detection.
ient an in	DPW	Review existing mechanisms and determine how to regulate illicit discharges and develop a bylaw	Discussed the implementation of a plan to detect and respond to an illicit discharge	Continue working toward the implementation of the plan.

Stormwater Runoff Control

1	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
on	DPW & All Boards	Have an ordinance for erosion control within 12 months	Continued working with the newly hired Town Planner and Conservation Agent and work towards adopting a sediment & Erosion ordinance	Continue working on the ordinance and look to have approved by Town.
es for	DPW & All Boards	All construction activities to submit plan for review prior to start of construction	Continued development and meeting with various boards to discuss implementation of the site plan review requirements	Continue discussion and development to implement the site plan review requirements
	DPW & All Boards	Develop new procedures and documentation format	Continued to proceed forward with the procedures	Continue the implementation of the procedures
e	DPW & All Boards	To establish fines and penalties for non-compliance	Worked with various departments and boards to explore options.	Continue working with various departments and boards to explore options.
ction	DPW & Building Dept.	Develop a Management Plan aimed at recycling	None to date	Start a discussion with the new Conservation Agent in regard the development of the management plan.

1 Stormwater Management in New Development and Redevelopment

n	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
	DPW & All Boards		Continued working towards the implementation of the ordinance	Continued working towards the implementation of the ordinance
of	DPW		Continued the discussion about the maintenance plan	Continue working toward the implementation of the maintenance plan.
MP's	DPW		None to date	Develop database of Town's BMP's

•
•
•

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Status (indicate with “X”)				
Detection & Elimination	N	Y	N	N
ent Control	Y	Y	Y	Y
t Stormwater Management	N	Y	N	N
n Status (indicate with “X”)				
Detection & Elimination	N	Y	N	N
ent Control	Y	Y	Y	Y
t Stormwater Management	N	Y	Y	N

Charges

	(%)	85-90
er of outfalls	(#)	100
mplete	(%)	85-90
	(%)	85-90
	(%)	60
	(%)	60
ed	(# or %)	20%
d	(#)	0
d	(#) (est. gpd)	0
	(%)	80
systems	(%)	20

street sweeping (non-commercial/non-arterial streets)	(times/yr)	1
street sweeping (commercial/arterial or other critical streets)	(times/yr)	30
lected by sweeping	(lbs. or tons)	6000
(landfill, POTW, compost, beneficial use, etc.)	(location)	Beneficial use
posal	(\$)	N/A
rs purchased/leased	(#)	0
rs specified in contracts	(y/n)	N

on on public land of: (“N/A” = never used; “100%” = elimination)		
	(lbs. or %)	30%
	(lbs. or %)	30%
	(lbs. or %)	30%

s and ratios	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	15% 85%
utilized	(y/n)	N
rs used	(y/n)	Y
city spreaders used	(y/n)	Y
n in typical year salt application	(lbs. or %)	0
storage shed(s)	(y/n)	Y



®Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 6/16/2005
Date Received 6/14/2005
Sample ID 0506-00619
Invoice No. 95934
Cust # H141
Cust P.O. #

Subject TOWN LAKE SAMPLE REC'D 6/14/05

Sampled By: CLIENT Date 6/14/2005 Time 14:54

Test	Result	Date	Time	Tech	Method
001 Sample Collected	6/14/2005 2:54:00PM				
LAKE SAMPLE					
E. coli	40 per 100ml	6/14/2005	17:00	LBL	SM9213D
Temperature at Lab	16.0 Degrees C	6/14/2005	14:54	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



® **Microbac Laboratories, Inc.** Page 1 of 1
MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 6/23/2005
Date Received 6/21/2005
Sample ID 0506-00981
Invoice No. 96150
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 6/21/05

Sampled By: CLIENT Date 6/21/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected:	6/21/2005 9:30:00AM				
CENTENNIAL BEACH					

E. coli	<10 per 100ml	6/21/2005	17:20	LBL	SM9213D
Temperature at Lab	17.0 Degrees C	6/21/2005	9:30	ANR	
Temperature in Field	20.0 Degrees C	6/21/2005	9:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



® **Microbac Laboratories, Inc.**
MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 6/30/2005
Date Received 6/28/2005
Sample ID 0506-01310
Invoice No. 96535
Cust # H141
Cust P.O. #

Subject HUDSON CENTENNIAL BEACH SAMPLE REC'D 6/28/05

Sampled By: CLIENT Date 6/28/2005 Time 9:15

Test	Result	Date	Time	Tech	Method
001 Sample Collected	6/28/2005 9:15:00AM				
HUDSON CENTENNIAL BEACH					

E. coli	<10 per 100ml	6/28/2005	16:35	LBL	SM9213D
Temperature at Lab	N/A	6/28/2005	9:15	ANR	
Temperature In Field	68.0 Degrees F	6/28/2005	9:15	MAB	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director

Microbac

® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 7/7/2005
Date Received 7/5/2005
Sample ID 0507-00070
Invoice No. 96873
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 7/5/05

Sampled By: CLIENT

Date 7/5/2005 Time 9:15

Test	Result	Date	Time	Tech	Method
------	--------	------	------	------	--------

001 Sample Collected 7/5/2005 9:15:00AM

CENTENNIAL BEACH HUDSON MA

E. coli	10 per 100ml	7/5/2005	15:55	LBL	SM9213D
Temperature at Lab	13.0 Degrees C	7/5/2005	9:15	ANR	
Temperature in Field	67.0 Degrees F	7/5/2005	9:15	MAB	

RECEIVED

JUL 11 2005

BOARD OF HEALTH

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



®Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 7/18/2005
Date Received 7/12/2005
Sample ID 0507-00446
Invoice No. 97195
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 7/12/05

Sampled By: CLIENT Date 7/12/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected:	7/12/2005 9:30:00AM				
CENTENNIAL BEACH					

E. coli	<10 per 100ml	7/12/2005	16:50	LBL	SM9213D
Temperature at Lab	18.0 Degrees C	7/12/2005	9:30	ANR	
Temperature in Field	65.0 Degrees F	7/12/2005	9:30	MAB	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director

Microbac

® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON, MA 01749

Date Reported 7/21/2005
Date Received 7/19/2005
Sample ID 0507-00774
Invoice No. 97529
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 7/19/05

Sampled By: CLIENT

Date 7/19/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
------	--------	------	------	------	--------

001	Sample Collected	7/19/2005	9:30:00AM		
-----	------------------	-----------	-----------	--	--

CENTENNIAL BEACH

E. coli	10 per 100ml	7/19/2005	16:50	LBL	SM9213D
Temperature at Lab	7.0 Degrees C	7/19/2005	9:30	ANR	
Temperature in Field	30.0 Degrees C	7/19/2005	9:30	ANR	

RECEIVED

JUL 26 2005

BOARD OF HEALTH

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director

Microbac

® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 7/28/2005
Date Received 7/26/2005
Sample ID 0507-01143
Invoice No. 97928
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 7/26/05

Sampled By: CLIENT

Date 7/26/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
------	--------	------	------	------	--------

001 Sample Collected: 7/26/2005 9:30:00AM

HUDSON CENTENNIAL BEACH

E. coli	20 per 100ml	7/26/2005	16:50	LBL	SM9213D
Temperature at Lab	18.0 Degrees C	7/26/2005	9:30	ANR	
Temperature in Field	76.0 Degrees F	7/26/2005	9:30	MAB	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director

Microbac

®Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 8/4/2005
Date Received 8/2/2005
Sample ID 0508-00189
Invoice No. 98315
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 8/2/05

Sampled By: CLIENT

Date 8/2/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
------	--------	------	------	------	--------

001 Sample Collected: 8/2/2005 9:30:00AM

HUDSON CENTENNIAL BEACH

E. coli	<10 per 100ml	8/2/2005	16:35	LBL	SM9213D
Temperature at Lab	15.0 Degrees C	8/2/2005	9:30	ANR	
Temperature in Field	24.0 Degrees C	8/2/2005	9:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director

Microbac

® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 8/11/2005
Date Received 8/9/2005
Sample ID 0508-00497
Invoice No. 98679
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE REC'D 8/9/05

Sampled By: CLIENT

Date 8/9/2005 Time 14:30

Test	Result	Date	Time	Tech	Method
------	--------	------	------	------	--------

001	Sample Collected	8/9/2005	2:30:00PM		
-----	------------------	----------	-----------	--	--

CENTENNIAL BEACH

E. coli	<10 per 100ml	8/9/2005	17:00	LBL	SM9213D
Temperature at Lab	19.0 Degrees C	8/9/2005	14:30	ANR	
Temperature in Field	27.0 Degrees C	8/9/2005	14:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



®Microbac Laboratories, Inc.

MASSACHUSETTS DIVISION
148 Bartlett Street
Marlborough, MA 01752
(508) 460-7600 Fax (508) 460-7777
Daniel J. Ste.Marie, Lab Director
www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 8/25/2005
Date Received 8/23/2005
Sample ID 0508-01282
Invoice No. 99380
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE 8/23/05

Sampled By: CLIENT Date 8/23/2005 Time 9:30

Test	Result	Date	Time	Tech	Method
001 Sample Collected:	8/23/2005 9:30:00AM				
CENTENNIAL BEACH					
E. coli	<10 per 100ml	8/23/2005	17:50	LBL	SM9213D
Temperature at Lab	19.0 Degrees C	8/23/2005	9:30	ANR	
Temperature in Field	24.0 Degrees C	8/23/2005	9:30	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director



® Microbac Laboratories, Inc.

Page 1 of 1

MASSACHUSETTS DIVISION

148 Bartlett Street

Marlborough, MA 01752

(508) 460-7600 Fax (508) 460-7777

Daniel J. Ste.Marie, Lab Director

www.microbac.com E-Mail: massachusetts@microbac.com

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

HUDSON BOARD OF HEALTH
S. SAMUEL WONG
TOWN HALL
78 MAIN STREET
HUDSON,MA 01749

Date Reported 9/2/2005
Date Received 8/30/2005
Sample ID 0508-01639
Invoice No. 99811
Cust # H141
Cust P.O. #

Subject CENTENNIAL BEACH SAMPLE 8/30/05

Sampled By: CLIENT Date 8/30/2005 Time 13:00

Test	Result	Date	Time	Tech	Method
001 Sample Collected	8/30/2005 1:00:00PM				
HUDSON BEACH					

E. coli	110 per 100ml	8/30/2005	15:45	LBL	SM9213D
Temperature at Lab	19.0 Degrees C	8/30/2005	13:00	ANR	
Temperature In Field	23.0 Degrees C	8/30/2005	13:00	ANR	

This report has been reviewed and is electronically signed by:

Daniel J. Ste.Marie
Laboratory Director